



CENTER FOR HEALTH  
DEVELOPMENT



# HEALTH INDICATORS

# 2015

**Please send your comments regarding this publication to the address below.**

**Centre for Health Development**

Mailing address: S.Zorig street  
Ulaanbaatar -210648  
Fax: 976-11-320633  
Tel: 70111485, 325540  
Email: [admin@chd.moh.mn](mailto:admin@chd.moh.mn)  
Web: [www.chd.moh.mn](http://www.chd.moh.mn)

Edited by: Ch.Bat-Erdene, Director, Centre for Health Development  
Complied by: Ch.Zultsetseg , Research, Planning and Statistics Information Service  
S.Davaajargal, Officer of SID  
KH.Narantuya, Officer of SID  
B.Boldbaatar, Officer of SID

Layout by: D.Uranchimeg  
D.Altantsetseg

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## PREFACE

The presented of health indicators are based on the official statistical data 2015 of the health sector to estimate health indicators by international methodology and summarize it in this volume.

This report presents annually the main health indicators by levels of health care services, leading causes of population mortality and morbidity by region and criteria of health programs implemented at the national level.

Mongolia, as a result of the implementation of the policy, to reduce maternal and child mortality in 1990, the maternal mortality rate was 199 per 100 000 live births and while in 2006 the indicator reduced to 69.7 and 26.0 in 2015, reaching its MDG goal, Mongolia has become a country with moderate level of maternal mortality. Further developed and to implement identify the right policies in order to achieve the Sustainable Development Goals.

United Nations agencies and the World Bank Group reported that the maternal mortality has fallen by 44% since 1990.

Despite global improvements, only 9 countries achieved the MDG 5 target of reducing the maternal mortality ratio by at least 75% between 1990 and 2015. Those countries are Bhutan, Cabo Verde, Cambodia, Iran, Lao People's Democratic Republic, Maldives, Mongolia, Rwanda and Timor-Leste.

Mongolia is pleased to mention that became one of the 9 countries and to the tremendous progress achieved the Millennium Development Goal 5 on maternal mortality reduction.

In 1990, the infant mortality rate per 1000 live births was 63.4, while in 2015 were 15.3 and the indicator reduced 4 times. In 1990, the under-five mortality rate per 1000 live births was 87.5, while in 2015 the indicator was 18.3 and reduced to 4.8 times compared to 1990, reaching its MDG 4.5 goal for 2015.

Population of Mongolia reaches 3 million and the average life expectancy became 69.89 years and 75.84 years for female and 66.02 years for male.

We would like to express our appreciation to the Global Fund for provide financial supports for publishing this report to all of you available in making evidence-based decisions by health policy developers and decision-makers at all levels of the health sector.

Happy 20 year anniversary of Center for Health Development to all organizations which are collaborating and supporting and health sector colleagues who are working with their ability, knowledge with warm hearted to all population's health.

***Let spread every good deeds***

DIRECTOR



BAT-ERDENE.CH

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## LIST OF ACRONYMS

|           |  |
|-----------|--|
| ADB       | Asian Development Bank                             |
| AIDA      | Acquired immunodeficiency syndrome                 |
| CDR       | Crude death rate                                   |
| C-section | Caesarian sections                                 |
| DOTS      | Directly observed treatment strategy               |
| FHC       | Family health centres                              |
| HIV       | Human immunodeficiency virus                       |
| MDG       | Millennium development goals                       |
| NCD       | Non-communicable diseases                          |
| PHC       | Public health centre                               |
| RDTC      | Regional diagnostic and treatment centres          |
| SHC       | Soum health centres                                |
| SPS       | Structure and Performance Standards                |
| STI       | Sexually transmitted diseases                      |
| TFR       | Total fertility rate                               |
| VHC       | Village health centres                             |
| WHO       | World Health Organisation                          |
| NCCD      | National infectious Diseases Center                |
| NCC       | National Cancer Center                             |
| NCMCH     | National Center for Mother and Child               |
| GDP       | Gross Domestic Product                             |
| SISS      | Social Indicators Sample Survey                    |
| NRSO      | National Registration and statistics Office        |
| MEDS      | Ministry of Education, Culture, Science and Sports |
| SSNCD     | Steps Survey NCDs                                  |

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## ABSTRACT

“Health Indicators 2015” is composed 15 chapters, 41 subgroups and health indicators were compared with the last 10 years. Population of Mongolia reached 3 million 57.7 thousand by the end of 2015. Of the total population, 68.0% live in cities and the remaining 32.0% reside in the rural areas.

In 2015, the average life expectancy at birth was 69.89 years, for females 75.84 years and 66.02 years in males.

In 2015, 80 434 mothers gave birth in the country, which compared to 2014, the number of births has decreased by 974 or 1.0%. In 2015, 80875 live births were recorded and of live births, there were 1869 twins, 35 triplets.

The crude death rate was 7.9 in 1990; in 2015 were 5.4, compared to 1990 decreased by 2.5. There are 3 goals set for health under the MDG, which are to reduce child mortality, improve maternal health and to combat with HIV/AIDS, tuberculosis. In 1990, the under-five mortality rate per 1000 live births was 87.5 and 18.3 in 2015. In 1990, the number of infant mortality was 4789 and were reduced to 1234 in 2015.

Mongolian 2-time strategy implemented during 2001-2010 to reduce maternal mortality, maternal mortality rate declined sharply in 2001-2006, and the maternal mortality rate was 26.0 per 100,000 live births by 2015.

As of 2015, there were total of 3244 health organizations, out of 13 central and specialized hospitals, 5 RDTCs, 16 aimag hospitals, 12 district PHCs, 6 rural general hospitals, 39 Intersoum hospitals, 218 family health centers, 272 soum health centers, 224 private inpatient hospital and 1006 private outpatient clinics, respectively delivering health services to Mongolian population.

In 2015, total of 47429 health care employees were worked in the health organizations, which compared to 2014, the number of employees has increased by 2.9%. Of them for 93.9 percent in the health sector, 6.0 percent of health workers in other sectors.

22.9 percent of total employees in the primary health care, 18.0 percent of secondary and 16.3 percent of tertiary health facility, 17.3 percent of the private health-care facilities, and 25.5 percent of maternity hospitals and other health care organizations working in health care is provided.

As of 2015, an average number of population per a physician and per a nurses were 316 and 267, respectively, and both indicators declined by 2 and 4 persons, as compared to the previous year.

In 2015, 16374 deaths were registered, which is decreased by 121 cases or 0.7%, compared to last year. 60.0% were males and 40.0% were females. Of all deaths, 26.9% (4414) of them occurred in hospitals and 22.6% of all hospital deaths were within 24 hours of admission.

In 2015, 59400 cases of 29 different communicable diseases were registered, which compared to the previous year, increased by 25884 cases or 200.5 per 10 000 population. As of 2015, non-communicable diseases per 10 000 population were 7649.5 and diseases of respiratory system (1462.7), diseases of digestive system (1202.8), diseases of genitourinary system (783.7), diseases of circulatory system (931.2), and injuries, poisoning and certain other consequences of external causes (534.6) were five leading causes of population morbidity.



# CHAPTER 1

POPULATION OF  
MONGOLIA

# CHAPTER 1

## POPULATION OF MONGOLIA

### ABSTRACT

This section presents indicators of vital statistics on the growth, age and sex distribution and births, deaths, marriages, divorces and adoptions.

The main sources of population statistics are population and housing census conducted every 10 years and annual vital and migration statistics.

Population of Mongolia includes resident population in Mongolia and Mongolian citizens who reside abroad for 6 months and above.

The household is the group of people who live together in one house, with a joint budget and jointly provide their food and other basic needs. Members of the household may be family or relatives; there can be some members in the household with no relation to the other members.

The urban population includes population reside in Ulaanbaatar city, aimag centers and towns.

The rural population includes population reside in soum centers and rural areas. The sex ratio at birth refers to the number of boys born alive per 100 girls born alive.

The crude birth rate is the number of live births occurring among the population of a given geographical area in a given year, per 1000 mid-year population of the given geographical area during the same year.

The age specific fertility rate is the number of live births to women in specific age group, divided by the total population of women in same age group and expressed as a promille.

The total fertility rate refers the average number of children that would be born to a woman over her lifetime.

The crude death rate is the number of deaths occurring among the population of a given geographical area during a given year, per 1000 mid-year population of the given geographical area during the same year age and expressed as a promille.

### 1.1. POPULATION

The total population of Mongolia in 2015 was 3057.7 thousand, increased by 61.8 thousand or 2.1 percent compared with previous year.

Of the total population, 68.0% live in cities and the remaining 32.0% reside in the rural areas. Ulaanbaatar 1396.9 thousand people or 45.7 percent of the population resides.

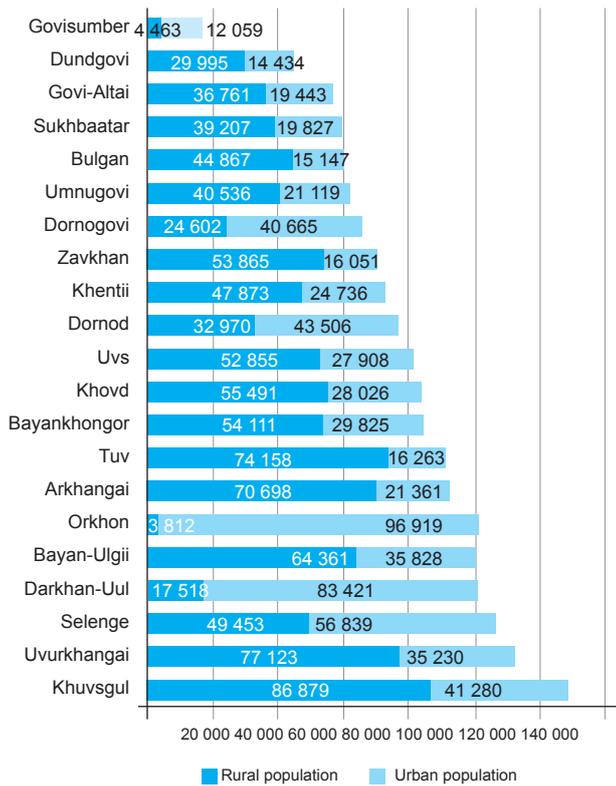
Of the total population, 49.2 percent were males and 50.8 percent were females. Sex ratio is 97 males per 100 females.

Considering the age structure, 29.6 percent of children are under age 15 and 66.6% of the population aged 15-64 years, 3.8% of the population over the age of 65, respectively.

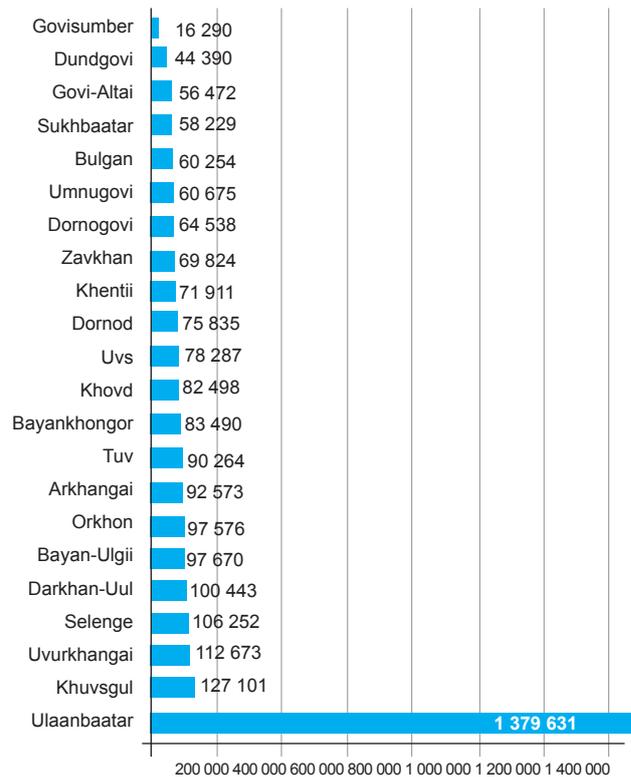
In 2015, the total households has 859.1 thousand, from which 67.4 percent of live in urban area's and 32.6 percent reside in rural area's. The average family size is 3.5 person.

Of total households, 376.4 thousand of them live in Ulaanbaatar city; 169.3 thousand live in Khangai region, in Central region 146.9 thousand, in Western region 102.7 thousand and 63.6 thousand live in Eastern region

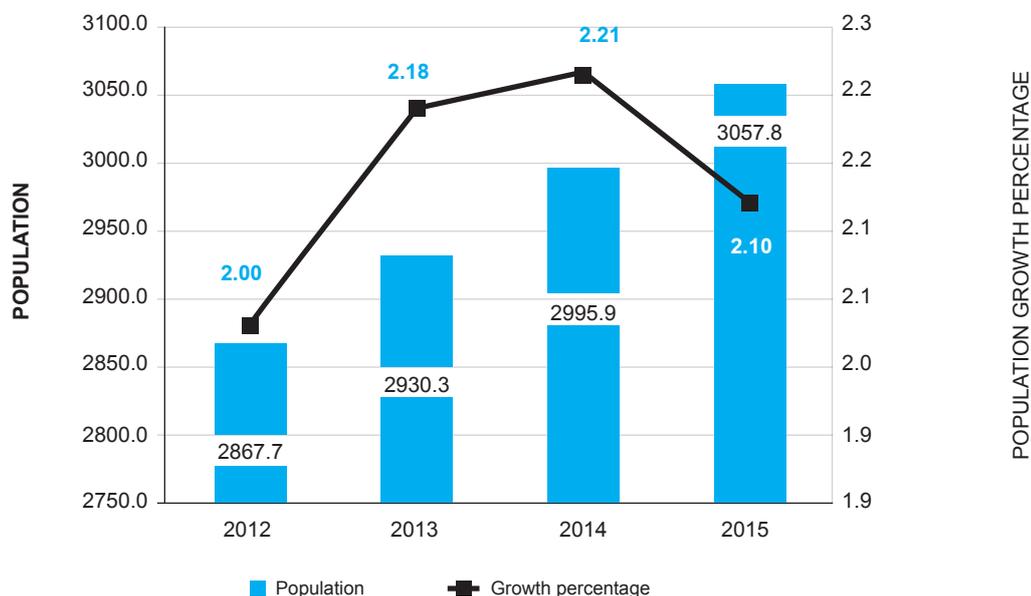
**Figure 1.1.1. Urban and rural population in 2015, by aimags**



**Figure 1.1.2. Average population by aimags in 2015**



**Figure 1.1.3. Population yearly growth rate by selected years**



The population growth rate has been increasing for the last years, and in 2015, it was 2.1 compared to 1.74 in 2011, which an increase by 0.46 points.

## 1.2. SELECTED DEMOGRAPHIC INDICATORS

For the last ten years total of 688.7 thousand infants were born and steady increases in number of birth in 2007-2009 had positive effect to the growth rate of the population. In 2010, 65.6 thousand children have born, increased to 80.8 thousand in 2015.

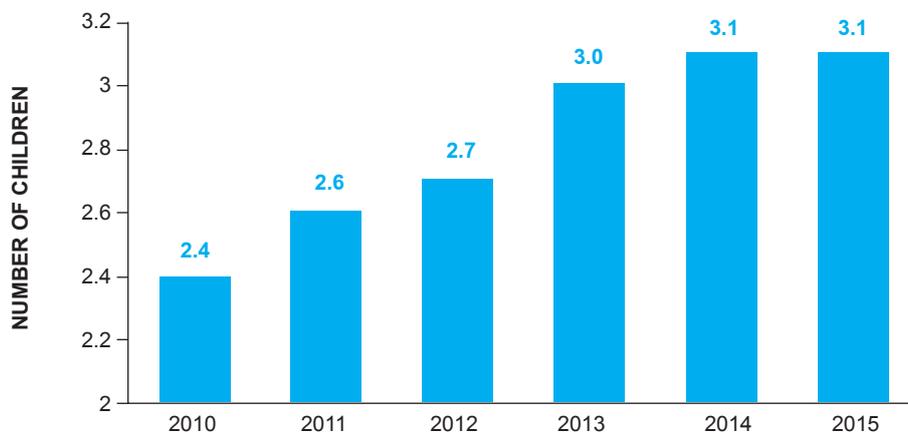
Although there was a twofold reduction in birth rate from 35.3 per 1000 population in 1990 to the minimum rate of 17.8 in 2005, it has been steadily increasing from 2006 reaching 26.7 per 1000 population in 2015.

In 2015, the number of new borns was 80.8 thousand, which is an increase in 1.0%, from previous year. Sex ratio is for every 100 girls there were 105 boys.

**Table 1.2.1** Demographic indicators by selected years

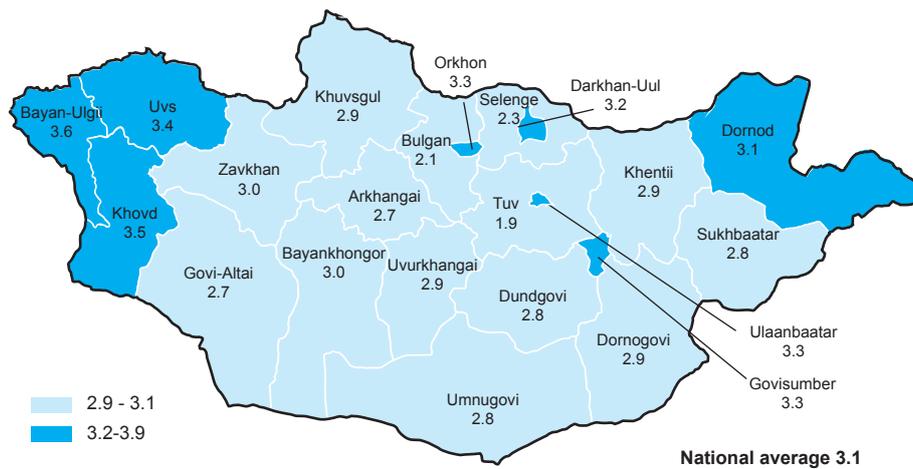
| Indicators                  | 1990   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total population (thousand) | 2149.2 | 2683.5 | 2735.5 | 2780.7 | 2811.6 | 2867.7 | 2930.3 | 2995.9 | 3057.7 |
| Urban population (%)        | 54.6   | 61.4   | 62.6   | 63.3   | 67.1   | 67.2   | 68.1   | 66.4   | 68.0   |
| Rural population (%)        | 45.4   | 38.6   | 37.4   | 36.7   | 32.9   | 32.8   | 31.9   | 33.6   | 32.0   |
| <b>Age group (%)</b>        |        |        |        |        |        |        |        |        |        |
| 0-15                        | 41.5   | 28.1   | 27.6   | 27.3   | 27.2   | 27.6   | 27.4   | 28.0   | 29.6   |
| 15-64                       | 54.4   | 67.8   | 68.4   | 68.8   | 68.8   | 68.4   | 68.8   | 68.0   | 66.6   |
| Over 65                     | 4.1    | 4.1    | 4.0    | 3.9    | 4.0    | 4.0    | 3.8    | 4.0    | 3.8    |
| <b>Demographic rates</b>    |        |        |        |        |        |        |        |        |        |
| CBR                         | 35.3   | 23.7   | 25.3   | 23.8   | 25.3   | 26.3   | 27.5   | 27.6   | 26.7   |
| CDR                         | 7.9    | 5.7    | 5.7    | 6.3    | 6.2    | 5.9    | 5.6    | 5.6    | 5.4    |
| Growth rate                 | 2.7    | 1.8    | 1.9    | 1.7    | 1.9    | 2.0    | 2.2    | 2.2    | 2.1    |
| TFR                         | 4.3    | 2.6    | 2.8    | 2.4    | 2.6    | 2.7    | 3.0    | 3.1    | 3.1    |

**Figure 1.2.1.** Total fertility rate by selected years



The total fertility rate (TFR), interpreted as the number of children a woman would have by the end of her childbearing years, was 4.3 in 1990. TFR experienced a two-fold decline during the period of 2000-2003. However, this indicator increased to 2.4 in 2010, 3.1 in 2015.

The birth rate is higher in the group aged and live births per 1000 women aged 20-24 by 2015 is 171.2.

**Figure 1.2.2. Total fertility rate by selected aimags, 2015**

### 1.3 AVERAGE LIFE EXPECTANCY

The **life expectancy** at birth reached **69.89 years**, 75.84 years for women, and **66.02 years for men**, previous increased by 0.32 in 2015

There is a difference in average life expectancy between sexes in any country, and females live in average four years longer compared to males. In our country, women's life expectancy is 9.82 years longer than for men.

Monaco, in 2015, the average life expectancy of the population of the countries of the world in the most high of 89.52 years and 49.81 years, the lowest in the country of Chad. Mongolia was in the 159-rd place in the word.

**Table 1.3.1. Population life expectancy, list of the first ten countries**

| No | Country/city | Average life expectancy | Year |
|----|--------------|-------------------------|------|
| 1  | Monaco       | 89.52                   | 2015 |
| 2  | Macao        | 84.51                   | 2015 |
| 3  | Japan        | 84.74                   | 2015 |
| 4  | Singapore    | 84.68                   | 2015 |
| 5  | San-Marino   | 83.24                   | 2015 |
| 6  | Hongkong     | 82.86                   | 2015 |
| 7  | Andorra      | 82.72                   | 2015 |
| 8  | Switzerland  | 82.5                    | 2015 |
| 9  | Guernsey     | 82.47                   | 2015 |
| 10 | Iceland      | 82.97                   | 2015 |

<http://www.infoplease.com/world/statistics/life-expectancy-country.html>

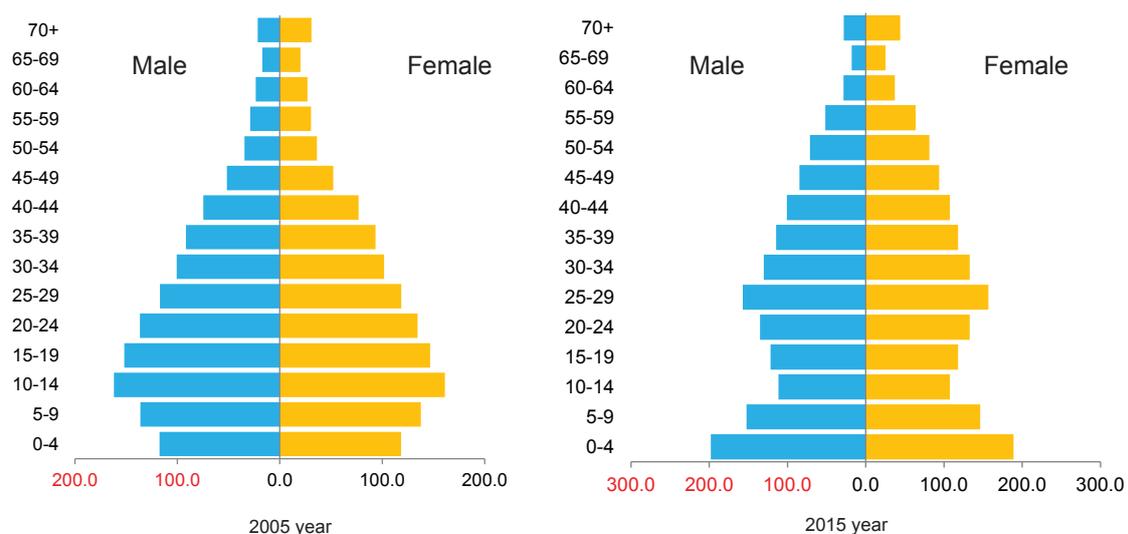
In 2015, there was a difference among aimags and regions in average life expectancy.

The lowest life expectancy in the khangai area of 70.1, the central region has the highest life expectancy in the population, or 72.0. Indicates Khuvsgul /66.3/, Uvs /68.8/, Dornod /68.9/, Darkhan-Uul /69.0/, Govi-Altai /69.4/, Bayankhongor /69.4/, Zavkhan /69.7/, Uvurkhangai /69.9/ provinces are below the national average life expectancy.

**Table 1.3.2. Average life expectancy by regions and sex, 2015**

| Aimag, town           | Total       | Male        | Female      |
|-----------------------|-------------|-------------|-------------|
| <b>Western region</b> | <b>70.7</b> | <b>66.8</b> | <b>74.1</b> |
| Bayan-Ulgii           | 73.3        | 69.9        | 75.8        |
| Govi-Altai            | 69.4        | 64.4        | 73.0        |
| Zavkhan               | 69.7        | 67.2        | 72.5        |
| Uvs                   | 68.8        | 63.9        | 72.9        |
| Khovd                 | 72.3        | 68.7        | 76.2        |
| <b>Khangai region</b> | <b>70.1</b> | <b>67.2</b> | <b>74.2</b> |
| Arkhangai             | 71.1        | 68.5        | 72.7        |
| Bayankhongor          | 69.4        | 66.0        | 71.3        |
| Bulgan                | 72.9        | 68.2        | 76.0        |
| Uvurkhangai           | 69.9        | 67.2        | 72.8        |
| Hovsgul               | 66.3        | 63.2        | 71.2        |
| Orkhon                | 71.4        | 70.3        | 80.9        |
| <b>Central region</b> | <b>72.0</b> | <b>68.5</b> | <b>76.2</b> |
| Govisumber            | 73.4        | 71.9        | 76.1        |
| Darkhan-Uul           | 69.0        | 64.7        | 73.9        |
| Dornodgobi            | 70.7        | 66.0        | 76.0        |
| Dundgovi              | 73.8        | 70.6        | 78.6        |
| South Govi            | 72.0        | 68.1        | 75.4        |
| Selenge               | 72.4        | 68.1        | 77.8        |
| Tuv                   | 72.6        | 70.3        | 75.7        |
| <b>Eastern region</b> | <b>70.9</b> | <b>67.0</b> | <b>75.0</b> |
| Dornod                | 68.9        | 64.9        | 73.4        |
| Sukhbaatar            | 72.3        | 67.3        | 76.4        |
| Khentii               | 71.5        | 68.7        | 75.1        |
| <b>Ulaanbaatar</b>    | <b>71.8</b> | <b>66.5</b> | <b>75.3</b> |
| Ulaanbaatar           | 71.8        | 66.5        | 75.3        |

Figure 1.3.1 shows age structure diagram, which depicts age and sex distribution of the population in 2005 and 2015. In 2004, the diagram had fairly pyramid shape whereas in 2015 diagram's shape showed gradual widening in the middle of the pyramid. In other words, the proportion of people of young age in Mongolia is increasing.

**Figure 1.3.1 Population pyramid (2005, 2015)**

In 2015, the number of children aged 0-4 was higher, the proportion of people aged 20-29 relatively greater showing that the demographic window of opportunities is open due to an increase the number of people of working age.



# CHAPTER 2

HEALTH GOALS OF  
THE MILLENNIUM  
DEVELOPMENT

## CHAPTER 2

# HEALTH GOALS OF THE MILLENNIUM DEVELOPMENT

Every nation in the world is striving to implement the millennium development goals based on own features in order to improve quality of human life. Mongolia has widened the scope of millennium development goals based on socioeconomic common and distinctive features in order to implement the millennium development goals nationwide and has currently implementing the renewed 8 goals, 21 objectives and 58 criterions since 2008.

Within in the scope of millennium development goals, the 3 health goals /considering 9-13/ -decrease of infant mortality, improvement of maternal health and fight against AIDS/HIV and tuberculosis are presented.

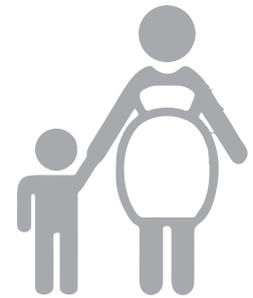


## GOAL 4. REDUCE CHILD MORTALITY

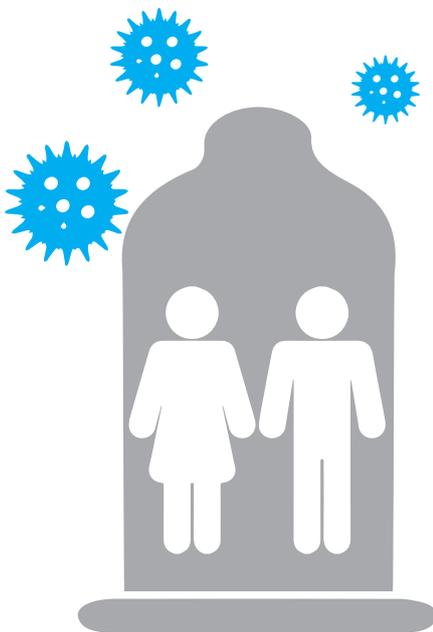
| Objective   | Indicators  |
|---|---|
| <b>OBJECTIVE 9.</b><br>Reduce the under-five mortality rate by four times between 1990 and 2015 | 4.1 Under-five mortality rate /per 1000 live births/  |
|   | 4.2 Infant mortality rate /per 1000 live births/      |
|   | 4.3 Percentage of children vaccinated against measles |

## GOAL 5. IMPROVE MATERNAL HEALTH

| Objective   | Indicators  |
|---|---|
| <b>OBJECTIVE 10.</b><br>To provide all individuals with essential reproductive health services, and lower the maternal rate by four times between 1990 and 2015 | 5.1 Maternal mortality rate /per 100.000 live births/     |
|   | 5.2 Percentage of births attended by health professionals |



## GOAL 6. TO LIMIT AND REDUCE HIV AND TUBERCULOSIS



| Objective   | Indicators   |
|---|--|
| <b>OBJECTIVE 11.</b><br>To limit and prevent of Human immunodeficiency virus /HIV/, Acquired Immunodeficiency syndrome by 2015. | 6.1 Percentage of HIV-infected pregnant women /%/  |
|   | 6.2 Percentage of HIV-infected youth aged 15-24 /%/  |
| <b>OBJECTIVE 12.</b><br>To reduce the prevalence of tuberculosis by 2015  | 6.3 Prevalence of tuberculosis /per 100.000 population/  |
|   | 6.4 Tuberculosis morbidity /per 100.000 population/  |
|   | 6.5 Tuberculosis mortality /per 100.000 population/  |
|   | 6.6 Percentage of detected and treated tuberculosis cases according to international diagnostic and therapeutic guidelines |

**GOAL 4. REDUCE CHILD MORTALITY****OBJECTIVE 9. REDUCE THE UNDER-FIVE MORTALITY RATE BY 4 TIMES BETWEEN 1990 AND 2015**

Reducing infant and under-five mortality is a major concern for the Government of Mongolia. Therefore, an objective to reduce infant and under-five mortality by 4 times between 1990 and 2015 was set.

In 1990, the under-five mortality rate per 1000 live births was 87.5 and infant mortality rate 63.4, while in 2007 these two indicators reduced to 22.1 and 17.8 respectively reaching its goal for 2015. Therefore, in 2008, the Government set a new goal of lowering the under-five mortality rate per 1000 live births to 21.0 and infant mortality rate to 15.0 in order to endorse these achievements.

**Table 2.1. Infant and under-five mortality /per 1000 live births/ by selected years**

| Indicator                                   | 1990        | 2000         | 2008        | 2009        | 2010        | 2011        | 2012        | 2013        | 2014        | 2015        | 2015                                     |
|---|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| Infant mortality /per 1000 live births/     |             |              |             |             |             |             |             |             |             |             |  |
| <b>Gender</b>                               |             |              |             |             |             |             |             |             |             |             |  |
| Male  | -           | -            | 22.4        | 22.6        | 21.3        | 17.5        | 17.1        | 16.0        | 17.2        | 17.4        |  |
| Female                                      | -           | -            | 16.6        | 17.6        | 17.3        | 15.1        | 13.4        | 13.1        | 13.3        | 13.0        |  |
| Location                                    |             |              |             |             |             |             |             |             |             |             |  |
| <b>Country average</b>                      | <b>63.4</b> | <b>31.23</b> | <b>19.6</b> | <b>20.2</b> | <b>19.4</b> | <b>16.3</b> | <b>15.3</b> | <b>14.6</b> | <b>15.3</b> | <b>15.3</b> | <b>22.0<sup>a</sup>/15.0<sup>b</sup></b> |
| UB city average                             | 70.3        | 32.8         | 17.5        | 18.0        | 16.1        | 13.3        | 13.1        | 13.6        | 15.0        | 14.7        | -  |
| <b>Aimags average</b>                       | <b>62.5</b> | <b>30.8</b>  | <b>21.2</b> | <b>21.9</b> | <b>22.1</b> | <b>19.2</b> | <b>17.5</b> | <b>15.7</b> | <b>15.7</b> | <b>15.9</b> | -  |
| Under-five mortality /per 1000 live births/ |             |              |             |             |             |             |             |             |             |             |  |
| <b>Gender</b>                               |             |              |             |             |             |             |             |             |             |             |  |
| Male  | -           | -            | 26.4        | 25.9        | 26.4        | 21.9        | 20.8        | 22.6        | 20.3        | 20.7        |  |
| Female                                      | -           | -            | 20.2        | 21.2        | 22.7        | 18.0        | 16.5        | 16.9        | 16.4        | 15.7        |  |
| Location                                    |             |              |             |             |             |             |             |             |             |             |  |
| <b>Country average</b>                      | <b>87.5</b> | <b>42.4</b>  | <b>23.4</b> | <b>23.6</b> | <b>24.6</b> | <b>20</b>   | <b>18.7</b> | <b>18.0</b> | <b>18.4</b> | <b>18.3</b> | <b>29.2<sup>a</sup>/21.0<sup>b</sup></b> |
| UB city average                             | 99.9        | 42.4         | 20.8        | 21.0        | 20.6        | 16.2        | 16.0        | 16.3        | 17.8        | 17.3        | -  |
| <b>Aimags average</b>                       | <b>94.4</b> | <b>42.5</b>  | <b>25.3</b> | <b>25.7</b> | <b>28.0</b> | <b>23.5</b> | <b>21.3</b> | <b>19.7</b> | <b>19.0</b> | <b>19.2</b> | -  |

**Source:** a. State Ikh Khural decree 115, on approving of Mongolia's MDG, 2005

b. State Ikh Khural decree 113, on approving of Mongolia's MDG, 2008

In 2015, 1234 infant deaths were registered and the infant mortality rate per 1000 live births was 15.3. It dropped 2.0 times and 1.3 times compared to 2000 and 2008 respectively. There was 2.3 times drop of the under-five mortality rate per 1000 live births in 2015 compared to 2000, reaching 18.3, which is 1476 registered under-five deaths.

Statistics for the last two decades shows a steady decline of infant and under-five mortality rates per 1000 live births. In 2015, the infant mortality and under-five mortality rates per 1000 live births declined 4.1 and 4.8 times respectively compared to the rates in 1990.

**OBJECTIVE: To provide all individuals with required reproductive health services, and lower the maternal rate by four times.**

Mongolia is among the medium maternal mortality rate countries compared to other regional and developed countries. Sustainable low maternal mortality is one of the Government's concerns, and there are number of programmes, projects and guidelines are being successfully implemented. Mongolia's maternal mortality rate in 1992 was chosen as a baseline; therefore, a new goal to reduce maternal mortality by three-quarters between 1992 and 2015 or 50 maternal deaths per 100 000 live births was set. In 2012, the Fourth National Reproductive Health Programme of Mongolia was approved in order

to strengthen reproductive health services.

**Table 2.2. Maternal mortality rate (per 100 000 live births), by selected years**

| Indicator        | 1990  | 2000  | 2006 | 2007  | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2015              |
|------------------|-------|-------|------|-------|------|------|------|------|------|------|------|------|-------------------|
| National average | 199.0 | 158.5 | 69.7 | 89.6  | 49.0 | 81.4 | 45.5 | 48.2 | 50.8 | 42.6 | 30.6 | 26.0 | 50.0 <sup>a</sup> |
| UB city average  | 126.0 | 171.1 | 71.8 | 73.7  | 55.2 | 78.9 | 46.2 | 44.2 | 43.0 | 52.3 | 35.9 | 28.8 | -                 |
| Aimag average    | 230.0 | 153.4 | 68.2 | 102.0 | 44.3 | 83.5 | 44.9 | 51.8 | 58.6 | 32.8 | 25.0 | 23.0 | -                 |

**Source:** The State Ikh Khural decree №13, on approving Mongolia's MDG, 2008

The mortality rate was 45.5 per 100 000 live births in 2010 and it showed steady decline for the last decade. However increased by 50.8 deaths in 2012, the lowest rate was 26.0 in 2015.

### **OBJECTIVE 11: To limit and prevent spread of HIV/AIDS by 2015.**

Prevalence of HIV among Mongolian population is less than 0.1%, and prevalence of HIV in vulnerable groups of people is less than 5%, which makes Mongolia as country with low risk in population and high-risk in vulnerable groups.

Ever since the first registered case of HIV/AIDS in Mongolia in 1992, there have been a total of 199 cases registered by the end of 2015, of which 18 were registered in 2015.

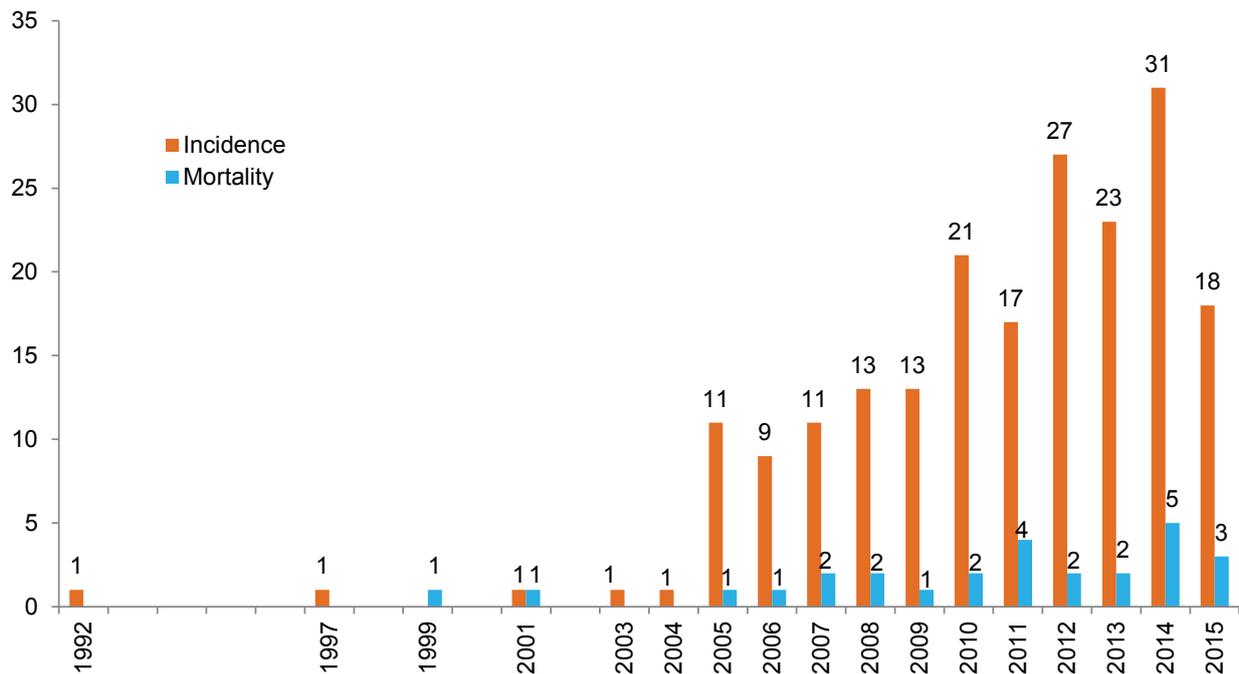
There have been 27 people passed away out of registered 199. Of the registered 199 cases, 159 (79.9%) were males, 39 (19.6%) females and one of uncertain gender identity.

Majority of registered cases contacted HIV infection by sexual intercourse. Cases of passing the infection through blood transfusion, medical assistance or from mother to child were not registered yet.

**Table 2.3. HIV prevalence among pregnant women and youth aged 15-24, by percentage**

| Indicator                                 | 1990 | 2000 | 2006  | 2007   | 2008   | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2015              |
|---|------|------|-------|--------|--------|------|------|------|------|------|------|------|-------------------|
| Prevalence of HIV-infected pregnant women | -    | -    | 0.004 | 0.001  | 0      | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 <sup>a</sup> |
| HIV prevalence among youth aged 15-24     | -    | -    |       | 0.0007 | 0.0005 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1              |

**Source:** The State Ikh Khural decree №13, on approving Mongolia's MDG, 2008

**Figure 2.1. Incidence and deaths from HIV infection (1992-2015)**

Source: Research department on HIV/STI's, NCCD

Among all registered cases in 2015, there were 12 (66.7%) males and 6 (33.3%) females. Of the 18 cases.

51.6% or 16 cases were recorded among those who have a family.

### **OBJECTIVE: To reduce the prevalence of tuberculosis by 2015**

Although Mongolia, as many other countries, has used strategy of directly observed treatment, short courses (DOTS) since 1996, which has impacted in steady detection of new cases and tendency in reduction of tuberculosis cases since 2007, it is not sufficient to achieve the target by 2015.

A new objective was set to reduce the incidence rate per 100 000 population to 82, morbidity to 100 and mortality to 2 in 2015. Moreover, an objective was introduced to early detect tuberculosis cases and have 100% of cured cases under DOTS.

In 1996, the incidence rate of tuberculosis was 146.0 per 100 000 population but it had increased by 1.3 times (186) in 2006.

However, starting from 2007 the incidence have declined and in 2007 the rate was 168 per 100000 population, 143 in 2011 and 141 in 2015.

In 2015, mortality rate of tuberculosis was 1.7 per 100 000 population and it was 2.5 times lower compared to mortality rate in 1996 and 2015 target is reached.

**Table 2.4. Prevalence and death rate of Tuberculosis (per 100 000 population), by selected years**

| Indicator  | 1996     | 2006     | 2007     | 2008     | 2009     | 2010     | 2011     | 2012     | 2013     | 2014     | 2015     | 2015               |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------------|
| <b>Incidence of tuberculosis*</b>                                      |          |          |          |          |          |          |          |          |          |          |          |                    |
| Country average  | 146      | 186      | 168      | 160      | 157      | 154      | 143      | 139      | 142      | 141      | 141      | 100.0 <sup>a</sup> |
| UB city average  | 189      | 248      | 217      | 205      | 199      | 189      | 174      | 170      | 179      | 187      | 155      | -                  |
| Aimag average  | 122      | 149      | 145      | 140      | 131      | 136      | 126      | 119      | 110      | 101      | 131      | -                  |
| <b>Death rate of tuberculosis*</b>                                     |          |          |          |          |          |          |          |          |          |          |          |                    |
| Country average  | 4.9      | 2.9      | 2.5      | 2.7      | 2.8      | 3.3      | 2.2      | 2.1      | 2.0      | 1.9      | 1.7      | 2.0 <sup>a</sup>   |
| UB city average  | 4.1      | 3.3      | 2.3      | 3.2      | 2.7      | 4.4      | 2.4      | 2.2      | 2.4      | 2.3      | 1.7      | -                  |
| Aimag average  | 2.4      | 2.5      | 2.6      | 2.4      | 2.9      | 2.5      | 1.9      | 2.0      | 1.7      | 1.6      | 1.7      | -                  |
| <b>Proportion of Tuberculosis cases detected and cured under DOTS*</b> |          |          |          |          |          |          |          |          |          |          |          |                    |
| Country average  | 100/66.2 | 100/82.1 | 100/83.8 | 100/85.0 | 100/82.4 | 100/84.5 | 100/83.0 | 100/82.7 | 100/80.1 | 100/80.7 | 100/79.5 | 100.0 <sup>a</sup> |
| UB city average  | 100/62.7 | 100/78.0 | 100/84.2 | 100/86.4 | 100/80.7 | 100/81.7 | 100/79.8 | 100/78.0 | 100/76.0 | 100/77.1 | 100/74.3 | -                  |
| Aimag average  | 100/68.5 | 100/87.1 | 100/88.0 | 100/87.2 | 100/87.8 | 100/87.5 | 100/87.3 | 100/89.2 | 100/84.7 | 100/85.2 | 100/88.3 | -                  |

In 2015, total of 4270 new cases of tuberculosis were registered, and 1724 of them were new sputum smear-positive pulmonary tuberculosis, and it was 2.3% (98 cases) and 1.6% (130 cases) increase respectively compared to the previous year.

Of the 4270 new cases of tuberculosis registered in 2015, 55.3% were pulmonary types of tuberculosis and 44.7% were non-pulmonary types.

There were 421 new cases of tuberculosis registered in children which was 9.9% of all new registered cases; a increase by 9.4% compared to the previous year.

In 2015, the verified diagnosis percentage was 77.6% and the recovery rate was 79.5%, an increase by 3.0% and by 1.2% respectively compared to the previous year.

\*Relation to population census in 2010, years before the average population size can be modified.



# CHAPTER 3

MATERNAL AND  
CHILD HEALTH

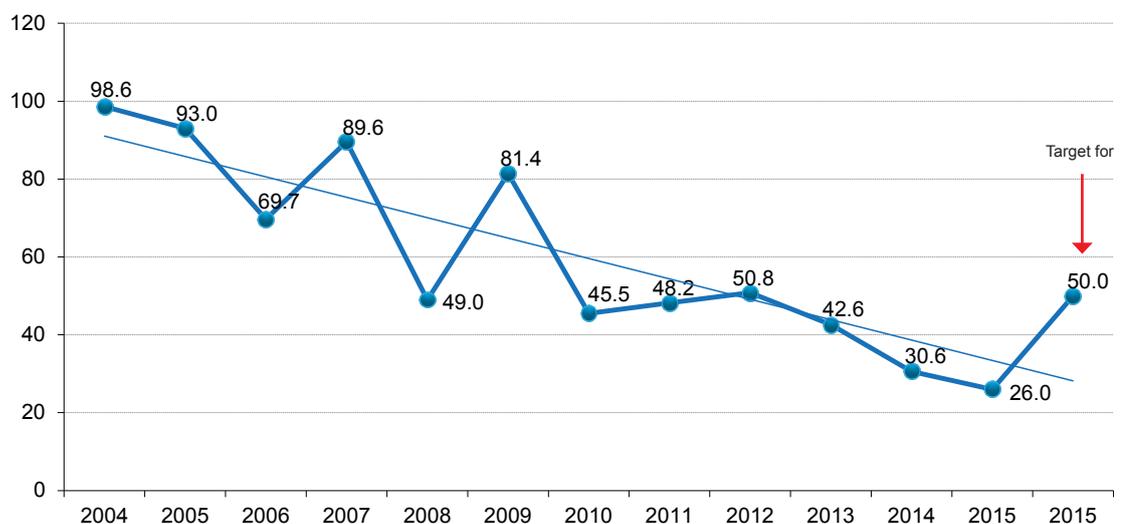
# CHAPTER 3

## MATERNAL AND CHILD HEALTH

### 3.1. MATERNAL HEALTH

The Government of Mongolia has defined a population policy documents - based on the National Development Strategy and the Millennium Development Goals and fourth national program for “Reproductive health” was approved by Government Resolution No.61, on July 29, 2012. Implementation of the program during 2012-2016 provides an equal access to reproductive health care and services for women, men and adolescents as well as supports sustainable population growth by creating a favorable environment for development of Mongolian population.

**Figure 3.1.1 Maternal mortality per 100 000 live births (2004-2015)**



Maternal deaths per 100,000 live births in 2015 compared with the previous 10 years has reached 26.0 percent, the lowest level.

This maternal deaths per 100,000 live births to 50.0 reduce the amount specified in the Millennium Development Goals (MDGs) provide reproductive health and population indicators are showing improvement.

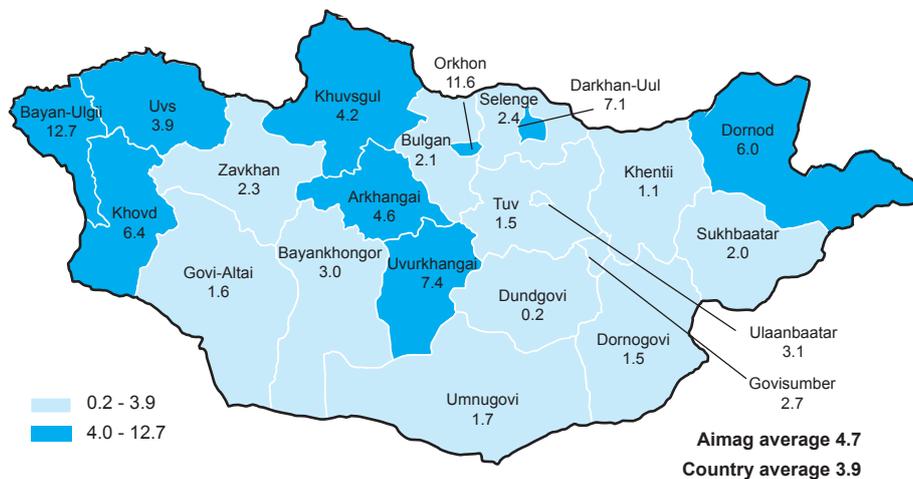
### 3.2. PREGNANCY CONTROL AND ANTENATAL CARE SERVICES

In 2015, a total of 80643 pregnant women were newly registered by antenatal care service and 84.2% of them at the first trimester or first 3 months, 14.4% at the 4-6 months, and 1.4% at the 7 months or late entry into antenatal care, respectively.

Early antenatal care services in terms of urban vs. rural areas showed that 84.1% were in urban areas, 84.2% were in rural areas, respectively. Both indicators were decreased by 1.2% and 2.8%, respectively, when compared to the previous year.

Overall anemia prevalence among pregnant women who attended in the pregnancy control was 3.9%, and it was decreased by 0.4% compared to the previous year. Darkhan-Uul, Orkhon, Bayan-Ulgii, Dornod, Uvurkhangai and Khovd aimags were 2.1-8.8 times higher than the national average.

**Figure 3.2.1** Percentage of pregnant women with anaemia by aimags, 2015



Total participation rate was 97.2% who was provided a blood sample for antenatal syphilis test. Overall syphilis positivity was 3.0% of pregnant women and the following areas were 0.5-3.5 times higher than country average; Ulaanbaatar /3.5/ Govisumber /4.3/, Dornogovi /3.9/, Govi-Altai /3.5/, Khuvsgul /6.5/ and Orkhon /4.0/, respectively.

Total participation rate for gonorrhea testing was 92.3%, which have increased by 1.5 point from the previous year. Overall gonorrhea positivity was 0.6% of pregnant women and the following areas were 1.0-2.1 times higher than country average; Bayankhongor /1.6/, Selenge /1.6/, Dornod /2.7/, and Khuvsgul /2.3/, respectively.

Total participation rate for trichomoniasis testing was 94.10% and 1.9% of pregnant women were a positive for this test. The following areas were 1.0-7.0 times higher than country average ; Orkhon /2.9/, Selenge /3.8/, Sukhbaatar /3.2/, Bayankhongor /8.9/ and Dornod /5.3/ respectively.

During the antenatal period, 53.5% of pregnant women had took X-ray examinations and 1903 cases (4.4%) of active tuberculosis were identified.

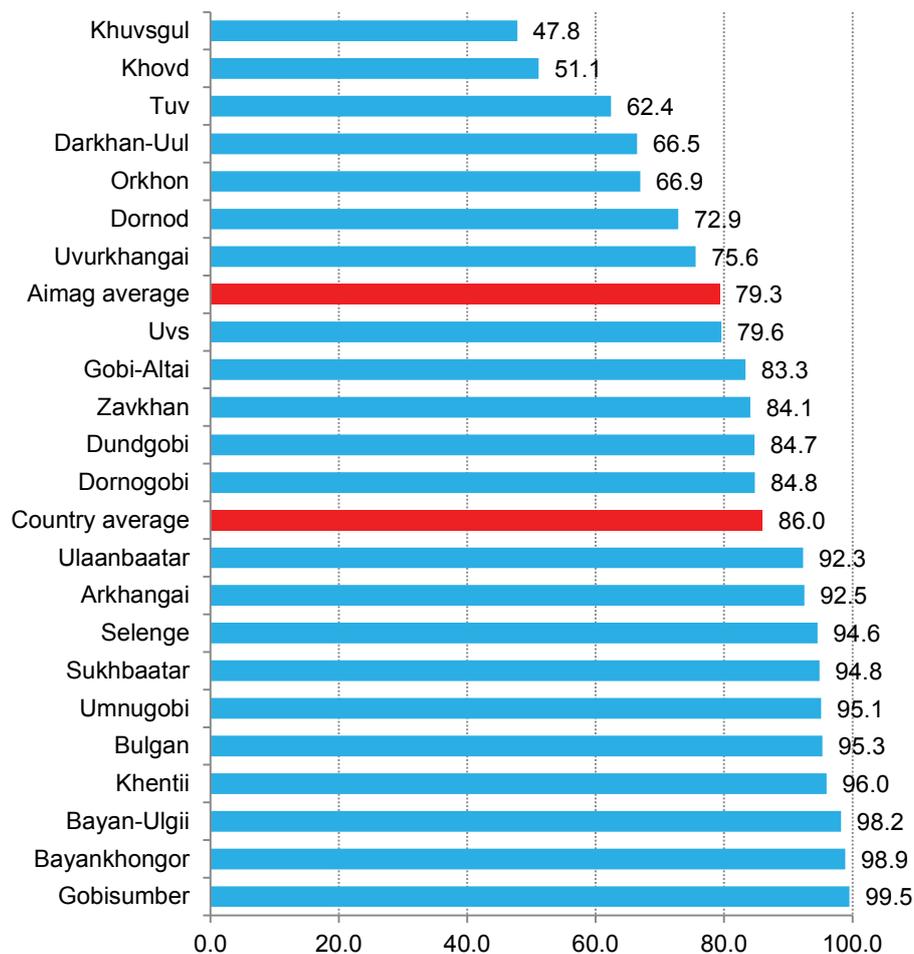
Total of 350 maternal resting wards were functioning throughout the country in 2015, of which 267 were in soum health centers, 40 in inter-soum hospitals, 21 in aimag's general hospitals, 11 in village health centers, 5 in rural general hospitals, 5 in Regional Diagnostic and Treatment Centers (RDTTC)

and 1 in hospital of Ulaanbaatar, respectively.

Of the maternal resting wards, 107 /30.6%/ located in designated buildings and 242 /69.1%/ located in clinics and total of 68287 bed days were used and average length of stay at a maternal resting ward was 6.8 days.

A total of 8 new maternity wards were built, in 38 places building maintenance or renovation and in 70 places comfort improvement completed in 2015. Of mothers required for antenatal resting service, 76.3% went to resting wards.

**Figure 3.2.2** Percentage of women underwent antenatal check-ups more than 6 times during pregnancy, 2015



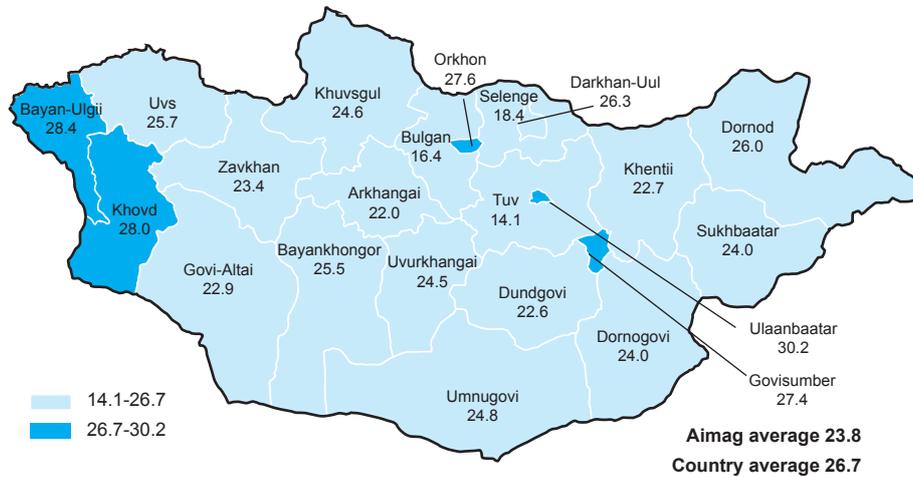
In 2015, 86.0% of all mothers had pregnancy control visit at least 6 times during their pregnancy and it is increased by 2.2% compared to the previous year.

### 3.3. LABOR AND BIRTH MEDICAL CARE SERVICES

In 2015, 80434 mothers gave birth in the country, which compared to 2014, the number of births has decreased by 794 or 1.0%. Birth numbers decreased in Arkhangai, Bayan-Ulgii, Bayankhongor, Bulgan, Govisumber, Darkhan-Uul, Dornod, Orkhon, Uvurkhantai, Selenge, Tuv, Uvs and Khuvsgul aimags, but increased in the other aimags and Ulaanbaatar city.

The crude birth rate per 1000 persons is 26.7, and this indicator's highest in Khovd /28.0/, Orkhon /27.6/, Bayan-Ulgii /28.4/.

**Figure 3.3.1. Crude birth rate per 1000 population, by aimags, 2015**



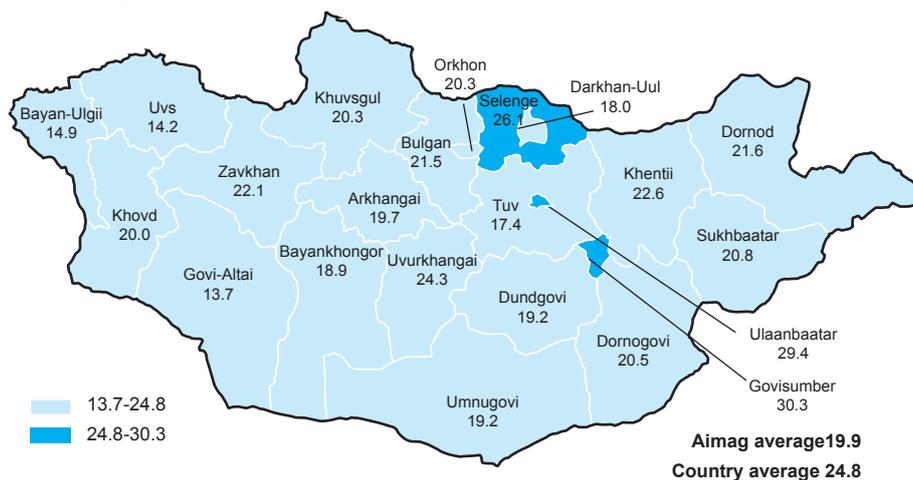
51.5% of total births were in Ulaanbaatar city, 29.2% were in aimag center general hospitals, 11.9% were in RDTCs, 6.7% were in soum, inter-soum and village hospitals, 2.4% were rural general hospital, and 2.0% were in private clinics and 0.4% were home births.

Of deliveries, 31.9% were first birth, 44.7% were 3 or more year's intervals birth respectively.

99.6% of all births has led health professionals . Percentage of mothers under 20 years old was 5.5% while of mothers aged over 35 years was 14.9%.

General fertility rate was estimated and 98 out of 1000 women of reproductive age gave birth in 2015.

**Figure 3.3.2. Percentage of Caesarean section among deliveries, by aimags, 2015**



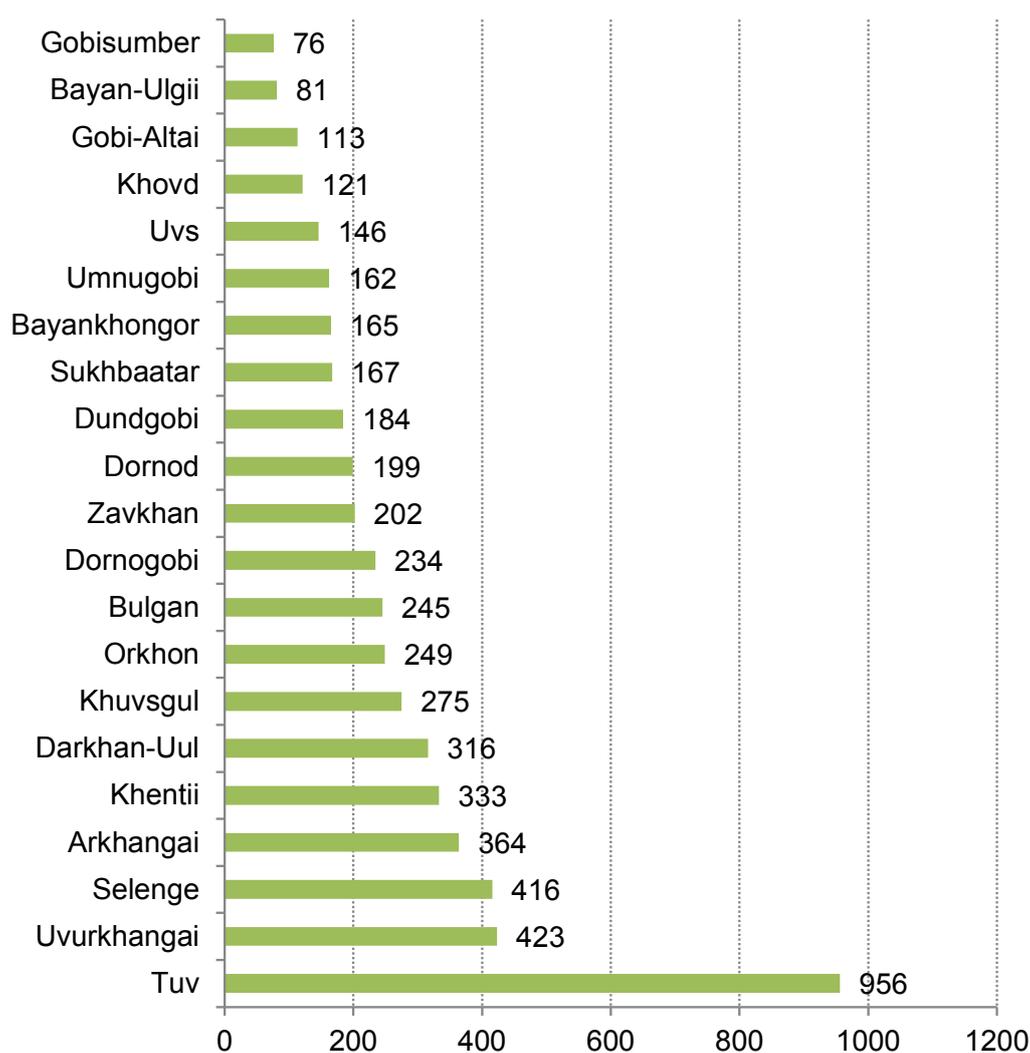
The World Health Organization (WHO) recommended level of caesarian sections (C-section) is 5-15% from all deliveries. In 2015 the C-section rate in Mongolia was 24.8%, which considered relatively high. The number of C-section was decreased by 0.4% (83 case) when compared to the previous year. The C-section rate was lower than country average by 2.9 points in the Western region. In contrast, it was higher by 0.8-1.8 points in Khangai, Central and East regions.

**Table 3.3.1 Percentage of Caesarean section by regions, 2015**

|                         | Mothers gave birth | Mothers underwent C-section (n) | Mothers underwent C-section (%) |
|-------------------------|--------------------|---------------------------------|---------------------------------|
| Western region          | 9981               | 1800                            | 18.0                            |
| Central region          | 10333              | 2727                            | 26.4                            |
| Khangai region          | 13687              | 3129                            | 22.9                            |
| Eastern region          | 4986               | 1227                            | 24.6                            |
| <b>Aimag average</b>    | <b>38987</b>       | <b>8883</b>                     | <b>22.8</b>                     |
| Ulaanbaatar             | 41447              | 11057                           | 26.7                            |
| <b>National average</b> | <b>80434</b>       | <b>19940</b>                    | <b>24.8</b>                     |

Total 329 home births have increased by 15.2% (50 case) when compared to the previous year. Of home births 56.5% were occurred in Ulaanbaatar and this number has increased by 0.5% when compared to the previous year.

Not attended by health professionals of births registered 154 cases of 80 cases, or 51.9% increase when compared to the previous year. Furthermore, 13.1% (5427) of all mothers who gave birth in Ulaanbaatar hospitals were come from countryside. This number has decreased by 466 births from the previous year.

**Figure 3.3.3 Number of mothers from countryside who gave birth in Ulaanbaatar, 2015**

**Table 3.3.2** Number of births by type of health facility, 2015

| Aimags, city            | Total number of births | Home births | RDTc        | Aimags, district general hospitals | Rural general hospitals | SHC, inter-soum hospitals | VHC       | Units with medical doctor | Maternity hospitals in UB, NCMCH | Private clinics | NCID      |
|-------------------------|------------------------|-------------|-------------|------------------------------------|-------------------------|---------------------------|-----------|---------------------------|----------------------------------|-----------------|-----------|
| Arkhangai               | 2037                   | 7           | 0           | 1515                               | 0                       | 515                       | 0         | 0                         | 0                                | 0               | 0         |
| Bayan-Ulgii             | 2761                   | 6           | 0           | 2113                               | 0                       | 638                       | 4         | 0                         | 0                                | 0               | 0         |
| Bayankhongor            | 2125                   | 9           | 0           | 1797                               | 0                       | 314                       | 5         | 0                         | 0                                | 0               | 0         |
| Bulgan                  | 985                    | 6           | 0           | 760                                | 0                       | 212                       | 7         | 0                         | 0                                | 0               | 0         |
| Govi-Altai              | 1284                   | 5           | 0           | 1125                               | 0                       | 153                       | 1         | 0                         | 0                                | 0               | 0         |
| Govisumber              | 442                    | 0           | 0           | 442                                | 0                       | 0                         | 0         | 0                         | 0                                | 0               | 0         |
| Darkhan-Uul             | 2628                   | 15          | 0           | 2574                               | 0                       | 39                        | 0         | 0                         | 0                                | 0               | 0         |
| Dornogovi               | 1534                   | 6           | 0           | 1239                               | 270                     | 19                        | 0         | 0                         | 0                                | 0               | 0         |
| Dornod                  | 1958                   | 3           | 1879        | 0                                  | 0                       | 76                        | 0         | 0                         | 0                                | 0               | 0         |
| Dundgovi                | 996                    | 5           | 0           | 821                                | 0                       | 170                       | 0         | 0                         | 0                                | 0               | 0         |
| Zavkhan                 | 1628                   | 2           | 0           | 940                                | 406                     | 280                       | 0         | 0                         | 0                                | 0               | 0         |
| Orkhon                  | 2680                   | 6           | 2672        | 0                                  | 0                       | 2                         | 0         | 0                         | 0                                | 0               | 0         |
| Uvurkhangai             | 2741                   | 10          | 1949        | 0                                  | 296                     | 469                       | 0         | 2                         | 0                                | 15              | 0         |
| South Govi              | 1509                   | 3           | 1194        | 0                                  | 0                       | 312                       | 0         | 0                         | 0                                | 0               | 0         |
| Sukhbaatar              | 1395                   | 7           | 0           | 1312                               | 0                       | 76                        | 0         | 0                         | 0                                | 0               | 0         |
| Selenge                 | 1945                   | 4           | 0           | 1003                               | 685                     | 218                       | 35        | 0                         | 0                                | 0               | 0         |
| Tuv                     | 1279                   | 14          | 0           | 966                                | 0                       | 299                       | 0         | 0                         | 0                                | 0               | 0         |
| Uvs                     | 1996                   | 16          | 0           | 1590                               | 0                       | 390                       | 0         | 0                         | 0                                | 0               | 0         |
| Khovd                   | 2312                   | 4           | 1874        | 0                                  | 186                     | 248                       | 0         | 0                         | 0                                | 0               | 0         |
| Huvsgul                 | 3119                   | 10          | 0           | 2414                               | 0                       | 695                       | 0         | 0                         | 0                                | 0               | 0         |
| Khentii                 | 1633                   | 4           | 0           | 1279                               | 106                     | 242                       | 1         | 1                         | 0                                | 0               | 0         |
| <b>Aimags average</b>   | <b>38987</b>           | <b>142</b>  | <b>9568</b> | <b>21890</b>                       | <b>1949</b>             | <b>5367</b>               | <b>53</b> | <b>3</b>                  | <b>0</b>                         | <b>15</b>       | <b>0</b>  |
| Ulaanbaatar             | 41447                  | 187         | 0           | 1569                               | 0                       | 0                         | 5         | 0                         | 38085                            | 1577            | 24        |
| <b>National average</b> | <b>80434</b>           | <b>329</b>  | <b>9568</b> | <b>23459</b>                       | <b>1949</b>             | <b>5367</b>               | <b>58</b> | <b>3</b>                  | <b>38085</b>                     | <b>1592</b>     | <b>24</b> |

**Table 3.3.3** Age specific fertility rate, 2015

| Age group | Number of women of reproductive age | Number of live births given by women of reproductive age | Age specific rate |
|-----------|-------------------------------------|--|-------------------|
| 15-19     | 116220                              | 4403   | 37.9              |
| 20-24     | 128214                              | 21955  | 171.2             |
| 25-29     | 149586                              | 25186  | 168.4             |
| 30-34     | 126501                              | 16935  | 133.9             |
| 35-39     | 112588                              | 9672   | 85.9              |
| 40-44     | 102939                              | 2209   | 21.5              |
| 45-49     | 90784                               | 74   | 0.8               |

Crude birth rate was 3.1 for the country. The highest age specific fertility rates (ASFR) were found among 20-24 years olds with 171 per 1000 women and 25-29 years old with 168 per 1000 women.

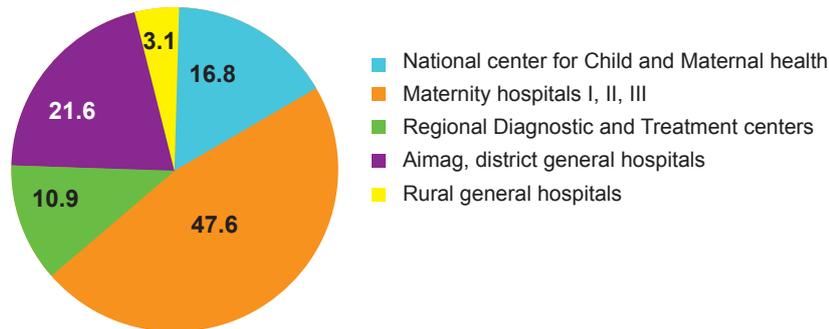
### 3.4. POST-DELIVERY HEALTH CARE SERVICES

In 2015, 84.4% of mothers who were under prenatal care were received a post-delivery maternal care within 42 days of birth and this number was increased by 2.5 point when compared to the previous year. This indicator is imperative in reducing a post-delivery complications and maternal mortality.

In connection with pregnancy, childbirth and post-delivery complications, total 60628 cases (750 per 1,000 live births) were recorded in 2015. Among those cases were;

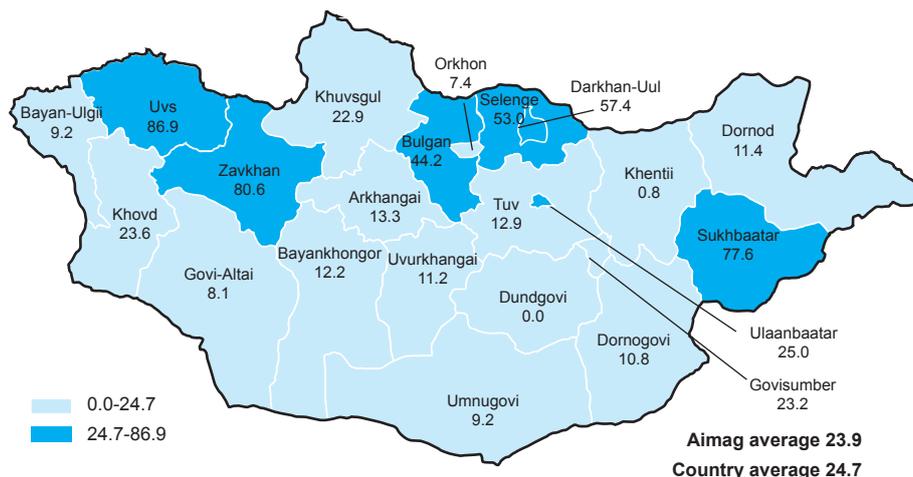
- Complications during pregnancy -38.7 %
- Delivery complications -54.2%
- Postpartum complications -2.7% and
- Other complications not associated with pregnancy and delivery-4.4%, respectively.

**Figure 3.4.1** Percentage of pregnancy, childbirth and post-delivery complications, by type of health facility, 2015



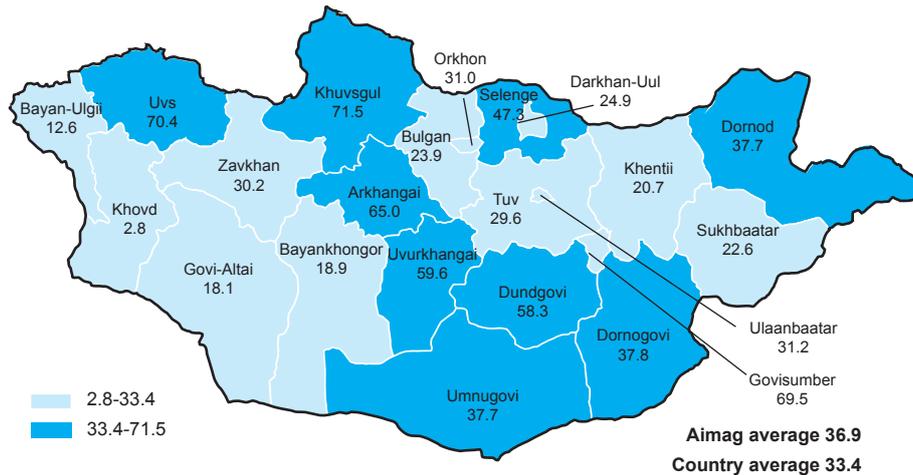
In 2015, registered 52 cases of congenital syphilis have increased by 22 in the previous year. Which of those occurrences registered as following areas: in Ulaanbaatar-30, Bulgan-2, Orkhon-5, Dornod-2, Tuv-3, Khuvsgul-2, Dornogovi, Zavkhan, Sukhbaatar and Khovd aimags 1 case each. The increase in number of pregnant women with sexually transmitted diseases (STIs) and birth of children with congenital syphilis suggests that there is need of early detection and treatment of infections in pregnant women and improving antenatal care services.

**Figure 3.4.2** Percentage of eclampsia in pregnancy complications by aimags, 2015

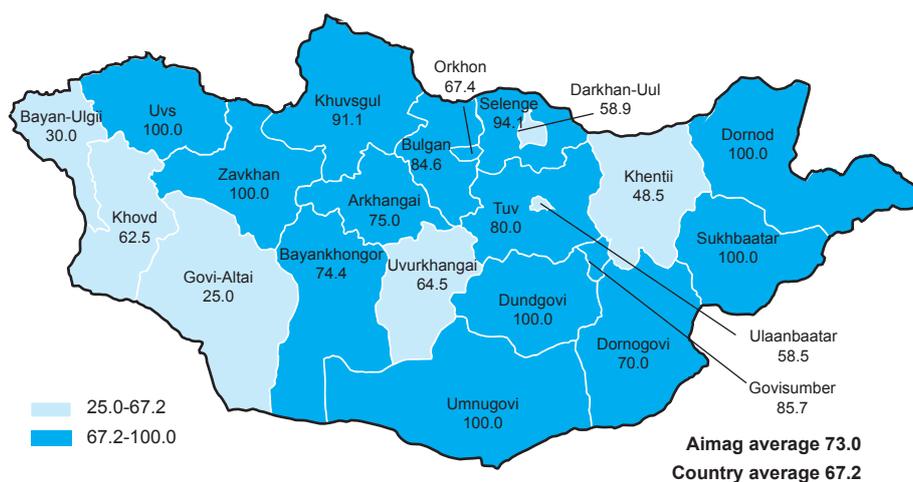


The percentage of eclampsia - pregnancy complications was 1.8-3.5 times higher than country average in Zavkhan /80.6/, Sukhbaatar /77.6/, Selenge /53.0/, Uvs /86.9/, Darkhan-Uul /57.4/ and Bulgan /44.2/, respectively. On the contrary, it was 2.7-3.3 times lower than country average in Bayan-Ulgii /9.2/, Govi-Altai /8.1/, Orkhon /7.4/, and Umnugovi /9.2/.

The percentage of pregnancy complications such as pre-eclampsia and, eclampsia was 24.4% and 0.3% respectively. First and secondary failure to progress in labor was in 33.4% which is the most common complication during birth. Postpartum hemorrhage accounted for 67.2% of all post-delivery complications.

**Figure 3.4.3 Percentage of failure to progress in labor by aimags, 2015**

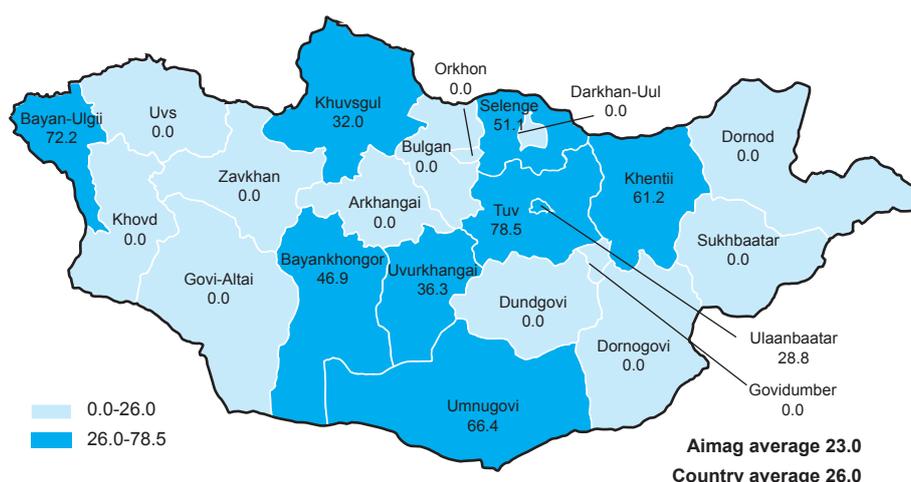
The percentage of failure to progress in labor during the childbirth was 1.4-2.1 times higher than country average the following aimags; in Arkhangai /65.0/, Govisumber /69.5/, Dundgovi /58.3/, Uvurkhangai /59.6/, Selenge /47.3/, Uvs /70.4/, and Khuvsgul /71.5/, respectively.

**Figure 3.4.4 Percentage of postpartum hemorrhage by aimags, 2015**

### 3.5. MATERNAL MORTALITY

The Millennium Development Goals (MDGs) of health sector has specified that to reduce maternal mortality rate by 75 percent by the 2015 in comparison to 1990. According to official statistics, of 40-50 million recorded pregnancies, 30500-50000 maternal deaths occurred during pregnancy, childbirth and post-delivery and 300 000 newborn children died during the first day of their life in the Asia-Western Pacific region. Up to date, the maternal mortality level in our country has reduced 4.6 times since 1990 and Mongolia has become a country with moderate level of maternal mortality.

In 2015, 21 cases of maternal mortality were recorded and it was 26.0 per 100000 live births. Since 2014 maternal mortality decreased by 4 cases (19%) which come to 4.6 per 100 000 live births. No maternal deaths were recorded in Arkhangai, Bayan-Ulgii, Bulgan, Govi-Altai, Govisumber, Darkhan-Uul, Dornogovi, Dornod, Dundgovi, Zavkhan, Orkhon, Sukhbaatar, Uvs and Khovd aimags. 90.5% of deaths were occurred in hospitals and 9.5% at home.

**Figure 3.5.1** Maternal mortality per 100 000 live births by aimags, 2015

Maternal deaths by education are shown as follows; 4.7% no formal education, 14.3% primary, 52.4% secondary, and 28.6% higher, respectively. Maternal deaths by occupation are shown as follows; 28.6% employed 14.3% herder, 52.4% unemployed, respectively.

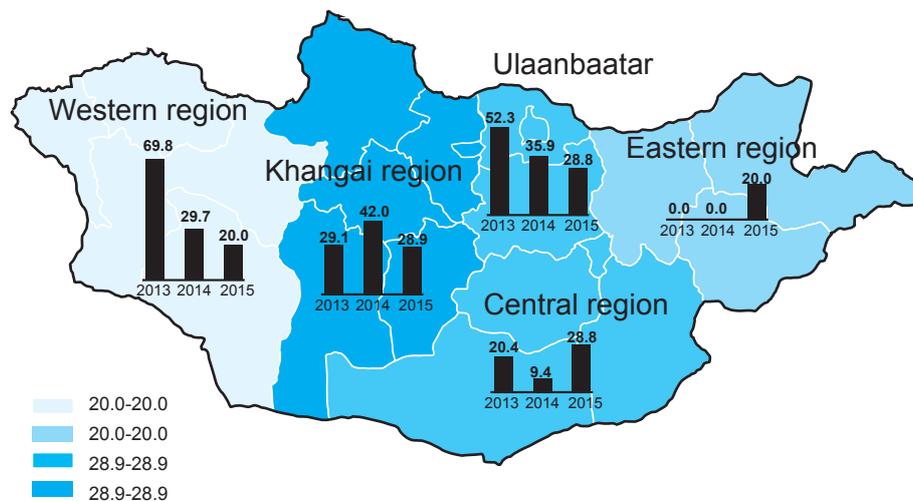
By looking at the type of health facility where maternal deaths occurred, 9.5% district general hospitals, 14.3% of deaths were in soum and rural hospitals, 19.0% in aimag general hospitals, 14.3% in city maternity hospitals, 4.8% were in RDTC, 9.5% in NCCD, 4.8 in NCC, 14.3% NCMCH, and 9.5% at home.

28.6 % of maternal mortality was from pregnancy complications, 9.5% was from birth complications, 19% were from post-delivery complications and 42.9% was from diseases not related to pregnancy and birth. This data shows that birth complications and diseases not related to pregnancy and pregnancy complications are increased by 1.5% and 10.9% respectively, whilst pregnancy complications and post-delivery complications are decreased by 3.4% and 9.0%, respectively, in comparison to the previous year.

**Table 3.5.1.** Maternal mortality rate per 100 000 live births by age groups, 2015

| Age group          | Number of mother died | Percent | Number of children born by the same age group women | Maternal mortality rate per 100 000 live births of the same age group |
|--------------------|-----------------------|---------|---|---|
| Under 20 years old | 3                     | 14.3    | 4 379   | 68.5  |
| 20-24              | 4                     | 19.0    | 22 014  | 18.2  |
| 25-29              | 6                     | 28.6    | 25 334  | 23.7  |
| 30-34              | 2                     | 9.5     | 17 066  | 11.7  |
| 35-39              | 5                     | 23.8    | 9 777   | 51.1  |
| Over 40 years old  | 1                     | 4.8     | 2 305   | 43.4  |

Maternal mortality rate per 100 000 live births was 68.5 in age group under 20 years, 51.1 in age group 35-39 years and 43.4 in age group higher than 40 years, respectively, which is greater by 17.4-42.5 promile than the country average.

**Figure 3.5.2** Maternal mortality rate per 100 000 live births by region, 2015

Maternal mortality rate per 100 000 live births was higher by 2.8-2.9 promile in the Khangai region and Ulaanbaatar, but lower by 4.2-6.0 in the Eastern, Central and Western regions than the country average. In 2015, the maternal mortality rate per 100 000 live births has increased by 21.8 promile (12.1) in Central region when compared to the previous year.

### 3.6. CHILD HEALTH

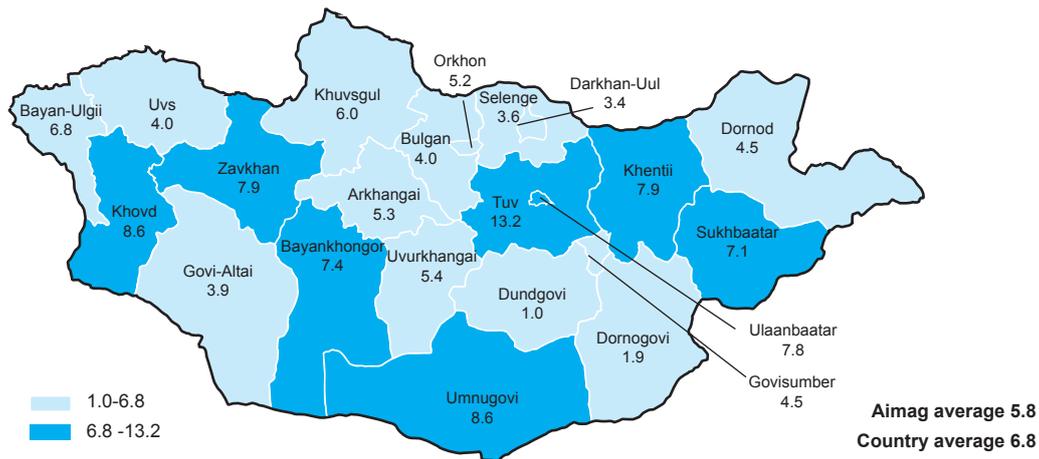
When infant receive an appropriate healthcare service up to one month after birth, it gives increasing probabilities to survive and it can be essential base-line for further development and healthy growth. In 2015, 94.8% of newborns were breastfed during their first hour of life. This indicator was 3.7-7.5% lower than country average in Arkhangai, Darkhan-Uul, Dundgovi, Uvurkhanga, Selenge aimags.

**Table 3.6.1** Data on newborns by region, 2015

| Region                  | Number of newborns |               |               | Total births |                                       |                                   |
|-------------------------|--------------------|---------------|---------------|--------------|---------------------------------------|-----------------------------------|
|                         | Total              | Male          | Female        | Sex ratio    | Percentage of low birth weight babies | Stillbirths (per 1000 all births) |
| Western region          | 10 016             | 5 165         | 4 851         | 106.5        | 3.8                                   | 6.2                               |
| Central region          | 10 375             | 5 294         | 5 081         | 104.2        | 3.8                                   | 5.2                               |
| Khangai region          | 13 754             | 7 035         | 6 719         | 104.7        | 4.4                                   | 5.6                               |
| Eastern region          | 4 999              | 2 594         | 2 405         | 107.9        | 3.1                                   | 6.5                               |
| <b>Aimag average</b>    | <b>39 144</b>      | <b>20 088</b> | <b>19 056</b> | <b>105.4</b> | <b>3.8</b>                            | <b>5.8</b>                        |
| Ulaanbaatar             | 41 731             | 21 462        | 20 269        | 105.9        | 4.9                                   | 7.8                               |
| <b>National average</b> | <b>80 875</b>      | <b>41 550</b> | <b>39 325</b> | <b>105.7</b> | <b>4.4</b>                            | <b>6.8</b>                        |

In 2015, 80875 live births were recorded, 840 newborns or decrease by 1.0% compared to 2014. 4.4% of total newborns had birth weight lower than 2500 grams. Of live births, there were 1869 twins, 35 triplets.

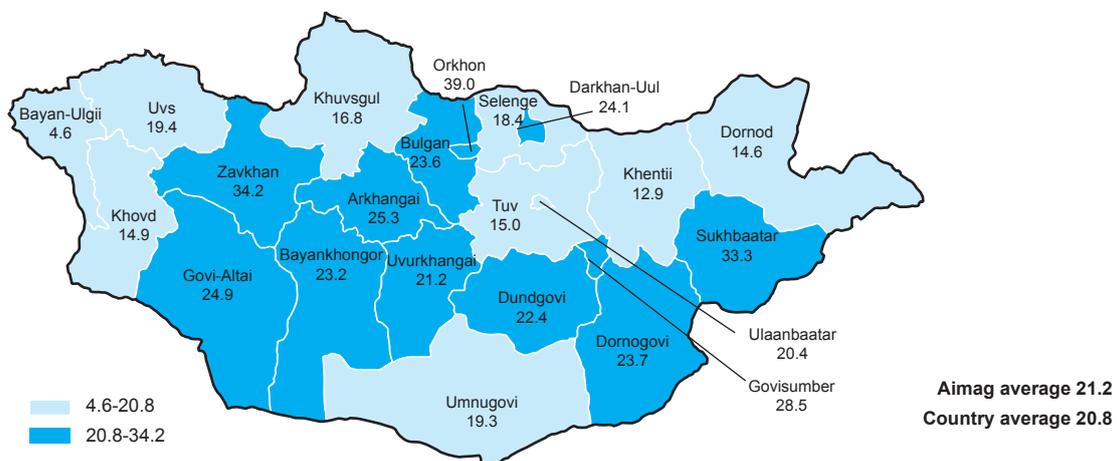
Stillbirths were 6.8 per 1000 births and of total 557 stillbirths were recorded, which is 5.2% (29 cases) more than compared to the previous year.

**Figure 3.6.1. Stillbirth rate per 1000 births, by aimags, 2015**

Stillbirth rate in Zavkhan and Khovd aimags was 8.0-8.6 per 1000 births, which is higher than country and west region average by 1.1-2.1 promile. Tuv and Umnugovi aimags was 8.6-13.3 which belong to Central region were higher than country and aimags average by 3.6-8.3 promile. Stillbirth rate in the Khangai and Central regions was lower than country as well as aimags average.

A total of 0.7% live births with congenital abnormalities were recorded. Congenital abnormalities incidence of total births to 6.7 per 1 000 births.

Of stillbirths, 52.0% were boys and it was consistent throughout the all regions. The sex ratio at birth was 105.7. In 2015, active monitoring rates of infants and children under-five years were 88.4% and 81.4% respectively. Total of 16799 neonatal morbidity cases were registered in 2015, which is accounted for 20.8% of all live births.

**Figure 3.6.2. Percentage of neonatal morbidity rate in live births, by aimags, 2015****Table 3.6.2. Neonatal morbidity rate, 2015**

|                  | Total neonatal morbidity | Perinatal pathology | Infectious and parasitic diseases |                     | Diseases of respiratory system |           | Diseases of digestive system |                         | Congenital abnormalities | Injuries, poisoning, certain other consequences of external causes | External causes of morbidity and mortality | Other diseases |
|------------------|--------------------------|---------------------|-----------------------------------|---------------------|--------------------------------|-----------|------------------------------|-------------------------|--------------------------|--|--|----------------|
|                  |                          |                     | Total                             | Congenital syphilis | Total                          | Pneumonia | Total                        | Non-infectious diarrhea |                          |  |  |                |
| Aimag average    | 8305                     | 6332                | 65                                | 15                  | 929                            | 272       | 114                          | 68                      | 228                      | 14   | 0  | 601            |
| UB city average  | 8494                     | 7484                | 29                                | 22                  | 216                            | 5         | 77                           | 18                      | 430                      | 10   | 0  | 217            |
| National average | 16799                    | 13816               | 94                                | 37                  | 1145                           | 277       | 191                          | 86                      | 658                      | 24   | 0  | 818            |

Fetal asphyxia and neonatal jaundice were the disorders in the perinatal period, which occurred in

10.0% and 31.2% of neonates respectively.

Total of 1103 congenital abnormalities among infants were registered and the most common types of congenital anomalies of congenital heart defects, deformities of hip and digestive system 33.0%, 17.2% and 14.0 %, respectively.

**Table 3.6.3 Causes of under-five morbidity by percentage (urban and rural), 2015**

|  | 0-1 years old |       | under-5 years old |       |
|--|---------------|-------|-------------------|-------|
|  | Urban         | Rural | Urban             | Rural |
| Diseases of respiratory system                 | 54.0          | 64.7  | 55.1              | 65.3  |
| Diseases of digestive system                   | 12.0          | 11.7  | 10.0              | 13.7  |
| Conditions originating in the perinatal period | 9.8           | 4.9   | 3.4               | 1.9   |
| External causes of morbidity and mortality     | 2.8           | 0.8   | 7.4               | 1.8   |
| Infectious and parasitic diseases              | 6.7           | 1.2   | 5.8               | 1.5   |
| Diseases of skin and subcutaneous tissue       | 5.9           | 3.9   | 5.7               | 3.6   |

■ 1st leading cause  
 ■ 2nd leading cause  
 ■ 3rd leading cause

Diseases of the respiratory system were the leading disorders among children under-five year old in both urban and rural areas. Frequently occurring respiratory diseases were pneumonia-19.5%, acute bronchitis-18.0% and influenza, influenza-like illnesses-13.5%, respectively. Non-infectious diarrheal disease was accounted for 59.4% among diseases of the digestive system.

**Table 3.6.4 The leading causes of morbidity among children and adolescents, by age group per 10000 population, 2015**

|  | 1-4 years olds | 5-9 years olds | 10-14 years olds | 15-19 years olds |
|--|----------------|----------------|------------------|------------------|
| Diseases of respiratory system             | 4669.4         | 1499.3         | 1161.5           | 789.8            |
| Diseases of digestive system               | 927.0          | 1025.3         | 858.7            | 821.6            |
| Infectious and parasitic diseases          | 256.2          | 126.7          | 103.9            | 411.0            |
| External causes of morbidity and mortality | 451.9          | 350.4          | 469.7            | 492.3            |
| Diseases of urogenital system              | 103.3          | 127.2          | 202.3            | 445.0            |
| Diseases of skin and subcutaneous tissue   | 624.9          | 365.2          | 391.4            | 516.0            |

■ 1st leading cause  
 ■ 2nd leading cause  
 ■ 3rd leading cause

The majority of diseases among adolescents are diseases of respiratory, digestive system, injury, poisoning and certain consequences of external causes, skin and subcutaneous tissue diseases and infections of the genitourinary system.

In 2015, the incidence of injuries among children aged 10-14 years and 15-19 years has decreased by 14.9-47.5 per 10 000 children compared to the previous year. But the digestive system diseases is increased chance for each age group 54.0-85.3.

The leading causes of morbidity among children of 1-4 years of age were non-infectious diarrhea 439.0, tooth decay 202.0 and other dental diseases 127.4, respectively per 10000 children with matching age group. Furthermore, the leading causes of morbidity in children aged 5-9 years were tooth decay and other dental diseases that occurred at 361.7 and 389.6 per 10 000 children with matching age group.

### 3.7. INFANT AND UNDER-FIVE MORTALITY

Within the MDGs proposed that to reduce infant mortality rate per 1000 live births 15.0 and under-five children mortality rate to 21.0 by the 2015.

At the national level 1234 infant deaths were recorded in 2015, which are 15.3 per 1000 live births. It has even per 1000 live births compared to 2014. More than half, 66.5% of deaths in infant mortality were occurred at the neonatal period and the neonatal mortality rate was 10.2 per 1000 live births.

Total of 823 cases, 629 cases (76.4 %) of neonatal deaths were occurred in the early neonatal period / first 0-6 days of life / whereas 194 cases (23.6 %) of neonatal deaths were occurred in the late neonatal period /first 7-28 days of life/. Sex ratio for infant mortality was 58.6% male and 41.4% female, respectively.

In 2015, 1476 children aged under-five died and this is 18.3 per 1000 live births. Irrespective of the actual number of 29 deaths for children aged under-five were decreased in comparison to 2014, it was decreased by 0.1 promile per 1000 live births. Of total deaths, 20.7 were boys and 15.7 were girls per 1000 live births.

The following aimags; Bayan-Ulgii /31.4/, Zavkhan /28.2/, Sukhbaatar /22.9/, Khovd /23.3/, Uvs /23.4/ and Khuvsgul /27.5/ have higher children aged under-five mortality rate by 4.6-13.1 promile compared to the country and aimag average.

**Figure 3.7.1** Infant and under-five mortality rate by age and sex, 2015

|                               | Male  | Female | Total |
|-------------------------------|-------|--------|-------|
| Early neonatal mortality rate | 374   | 255    | 629   |
| Late neonatal mortality rate  | 107   | 87     | 194   |
| Neonatal mortality            | 481   | 342    | 823   |
| Under-five mortality rate     | 859   | 617    | 1476  |
| Number of live births         | 41550 | 39325  | 80875 |

Leading cause of infant mortality was perinatal period-originated diseases in urban and rural areas

**Table 3.7.2.** Causes of infant and under-five mortality by percentage (urban and rural), 2015

|  | Infant |       | Under-five |       |
|--|--------|-------|------------|-------|
|  | Urban  | Rural | Urban      | Rural |
| Diseases of respiratory system                     | 8.2    | 16.0  | 9.3        | 17.1  |
| Diseases of nervous system                         | 4.2    | 3.2   | 4.3        | 4.2   |
| Conditions originating in the perinatal period     | 62.0   | 57.2  | 52.5       | 47.1  |
| Congenital abnormalities and chromosomal disorders | 13.0   | 7.7   | 12.2       | 7.3   |
| External causes of morbidity and mortality         | 3.3    | 7.9   | 10.9       | 15.5  |

- 1st leading cause
- 2nd leading cause
- 3rd leading cause

86.4 % of deaths of children under-five were due to illnesses and 13.1 % were due to injuries, poisoning and certain consequences of external causes. Of all deaths, 78.3%, 17.0% and 4.7% have occurred in hospitals, home and other places respectively. Active supervision and monitoring and care and health education shows the need to focus on children under five.

### 3.8. ABORTIONS

In 2015, 18168 cases of abortion were recorded with ratio of 224.6 per 1000 live births and 22.0 abortions per 1000 women of reproductive age. The abortion rate has increased by 23 cases or 0.1%

compared to the previous year which corresponds to 1.8 per 1000 live births.

The abortion rate was higher by 66.6-272.4 promile compared to the country average in some areas namely, Umnugovi /340.9/, Dornogovi /291.2/, Orkhon /497.0/ and Ulaanbaatar /315.4/.

Abortion performed in private clinics and practices has decreased by 942 cases or by 32.0 times compared to last year. Late abortion rate per 1000 live births was 6.3.

The abortion rates by age group were as follows: women under 20 years – 5.1%, 20- 34 years old – 70.0% and over 35 years old – 24.9%. Abortions under the age of 20 compared to the previous year rate was decreased 1.5 percent.

Percentage of women underwent abortion first time has decreased by 20.8 % ( 426 cases) compared to last year and 11.2% of women who had abortions never gave birth.

Total of 52 cases with abortion complications were recorded. These complications of the abortion were consisted of bleeding due to weakening of uterine contractility 32.7 %, an inflammation of the uterine appendages 53.8 % and uterus punctured problem 5.8 %, respectively.

**Table 3.8.1** Abortion by locations, 2015

| No | Type of health facility        | Number of recorded abortions | Percentage from total number of abortions |
|----|--------------------------------|------------------------------|---|
| 1  | NCMCH                          | 2592                         | 14.3                                      |
| 2  | Maternity hospitals            | 8011                         | 44.1                                      |
| 3  | District public health centres | 68                           | 0.4                                       |
| 4  | Private clinics                | 2946                         | 16.2                                      |
| 5  | RDTCS                          | 2341                         | 12.9                                      |
| 6  | Aimag general hospitals        | 2081                         | 11.5                                      |
| 7  | Rural general hospitals        | 20                           | 0.1                                       |
| 8  | Inter-soum hospitals           | 60                           | 0.3                                       |
| 9  | Village health centre          | 0                            | 0.0                                       |
| 10 | Soum health centre             | 29                           | 0.2                                       |
| 11 | Other                          | 20                           | 0.1                                       |
|    | <b>Total</b>                   | <b>18168</b>                 | <b>100.0</b>                              |

### 3.9. USE OF MODERN METHODS OF CONTRACEPTION

540.6 women out of 1000 reproductive age and 54.1% of women aged 15-49 years have used any contraceptive method.

Statistics on use of contraceptive methods were as follows: condoms – 28.9%, intrauterine devices – 26.7%, pills – 20.6%, injectable contraceptives -11.0%, tubal ligation -1.7%, Norplant – 1.8 % and other 9.3 %, respectively. The study on use of contraception “Child development 2010”, which surveyed married and living with partners women aged 15-49 years, showed that regardless of their perception about contraceptive methods, just over half (55%) of women used the modern methods of contraception. 18.4% of women who have been using contraceptive methods stopped using them and 1% of them got pregnant.

**Table 3.9.1** Use of contraceptive methods by location, 2015

| No | Location         | Number of women using contraception | Percent      |
|----|------------------|-------------------------------------|--------------|
| 1  | Ulaanbaatar city | 196680                              | 44.0         |
| 2  | Aimag centre     | 107065                              | 24.0         |
| 3  | Soum centre      | 84722                               | 19.0         |
| 4  | Bag              | 58551                               | 13.1         |
|    | <b>Total</b>     | <b>447018</b>                       | <b>100.0</b> |



# CHAPTER 4

[ MEDICAL CARE  
SERVICE ]

# CHAPTER 4

## Medical care service

Health care system in Mongolia is comprised of the state owned, private and mixed health organizations which render public health, medical care, pharmaceutical, medical education, research and training services.

Medical care service is controlled by the integrated regulations of state and is dedicated to be mutually beneficial with state, citizens and legal entities fair respectful for clients, equitable and accessible.

In this chapter, we showed the comparison between the official statistic information of medical care service and the structural and operational standard of health care organizations; and Mongolian medical care service has 3 different levels and medical care Service policy is dedicated to be equitable, accessible and qualified to everyone.

Family health centers, soum and village health centers, Inter -soum hospitals, clinics, maternity hospitals, public health centers, general hospitals, sanatoriums, ambulances service centers, regional diagnostic and treatment centers, central hospitals and specialized medical centers are currently serving as medical care service.

**Table 4.1** Number of health facilities, 2015

| Health care providers                     | 2014        | 2015        |
|---|-------------|-------------|
| Family health centres                     | 218         | 218         |
| Soum/village health centres               | 271/19      | 272/19      |
| Inter-soum hospitals                      | 39          | 39          |
| District general hospital                 | 12          | 12          |
| Rural general hospital                    | 6           | 6           |
| Aimag general hospital                    | 16          | 16          |
| Regional diagnostic and treatment centres | 5           | 5           |
| Central and specialised hospitals         | 13          | 13          |
| Maternity hospitals                       | 3           | 3           |
| Private hospitals                         | 202         | 224         |
| Private clinics                           | 969         | 1006        |
| Sanatoriums                               | 104         | 105         |
| Drug supply companies                     | 160         | 210         |
| Drug manufacturer                         | 32          | 33          |
| Private pharmacies                        | 936         | 967         |
| Other                                     | 95          | 96          |
| <b>Total</b>                              | <b>3100</b> | <b>3244</b> |

## 4.1. FAMILY HEALTH CENTERS HEALTH CARE SERVICES

Family health centres (FHCs) are private organizations providing health services to urban and settled population by contract with the Government. Within the framework of the Second Health Sector Development Project funded by the Asian Development Bank (ADB), family practices were established according to planned phases in both Ulaanbaatar city and aimag centres. The family medicine system has been functioning since 2002 throughout the country. Of the existing 218 FHCs, 129 are covering a population of 1 396.2 thousand people in Ulaanbaatar city and 89 FHCs provide service in 21 aimags for 699.8 thousand people.

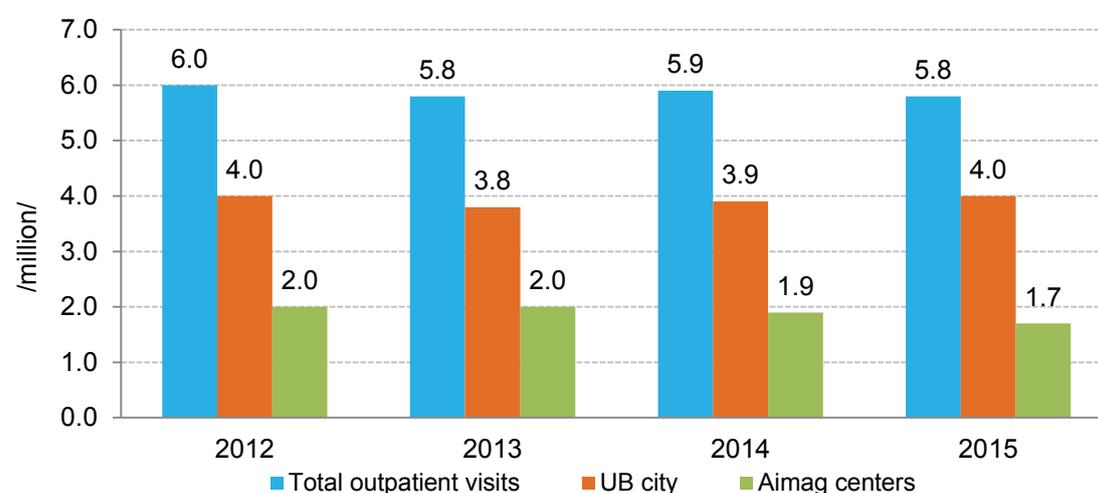
**Table 4.1.1** Some indicators of FHCs health care services, 2015

| Indicator                                  | Family health centre |           |           | Family health centre |           |           |
|--|----------------------|-----------|-----------|----------------------|-----------|-----------|
|  | Ulaanbaatar city     | Aimag     | Total     | Ulaanbaatar city     | Aimag     | Total     |
| Number of FHCs                             | 129                  | 89        | 218       | 129                  | 89        | 218       |
| Number of family doctors                   | 663                  | 319       | 982       | 622                  | 329       | 951       |
| Number of nurses                           | 561                  | 308       | 869       | 577                  | 320       | 897       |
| Number of outpatients                      | 3 972 397            | 1 953 155 | 5 925 552 | 4 033 462            | 1 799 545 | 5 833 007 |
| Percentage of preventive medical check-ups | 42.2                 | 35.0      | 39.8      | 43.0                 | 37.1      | 41.2      |
| Number of visits per person per year       | 3.0                  | 3.1       | 3.0       | 2.9                  | 2.6       | 2.8       |
| Number of outpatient visits per physician  | 5992                 | 6123      | 6034      | 6485                 | 5470      | 6134      |
| Percentage of early antenatal care         | 85.3                 | 84.7      | 85.1      | 84                   | 82.3      | 83.6      |

Total of 2 635 health professionals are working in 218 FHCs, including 951 physicians and 897 nurses. However the Structural and Performance Standards (SPS) of FHCs are specified that one family doctor per 1800-2000 population. In fact, country average one family doctor was worked for 2 204 population in this year. The number of people per one physician was higher than the given standard, in Govi-Altai, Govisumber, Dornod, Zavkhan, Uvurkhangai, Umnugovi, Tuv, Khovd, Khentii aimags respectively.

About 5.8 million medical examinations at FHCs and average 2.8 visits to FHCs a year were registered in 2015. Out of total outpatient visits, 41.2% were preventive medical check-ups, reaching 43.0% in Ulaanbaatar city and 37.1% in aimag FHCs, respectively. A number of preventive medical check-ups were reduced by 1.4% compared to 2014. SPSs for FHCs is specified that active visits to households should be not lower than 30%, but it stayed 26.5% similar to 2015 level.

**Figure 4.1.1** Number of outpatient visits performed by the FHCs, 2012-2015



As review, the following number of medical examinations was done at the family health centers of Ulaanbaatar; 3.0 million in 2005, 3.9 million in 2007, 4.2 million in 2010 and 4.0 million in 2015, respectively. An average number of visits performed by one family doctor per year in Ulaanbaatar city were 6484.7 and provincial level is 5469.7.

## 4.2 SOUM HEALTH CENTERS AND INTER-SOUM HOSPITALS MEDICAL CARE SERVICES

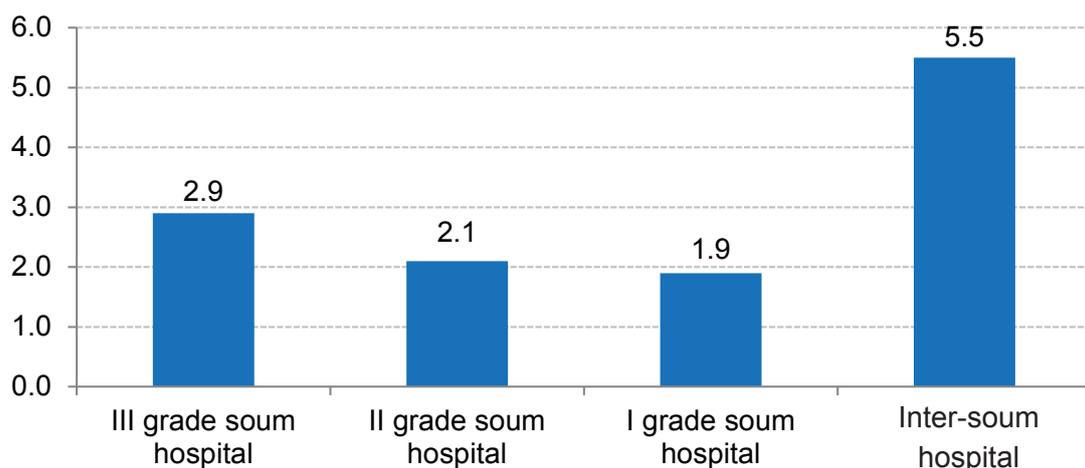
Soum health centres (SHC) and village health centres (VHC) provide health care services by modern and traditional medicine to their catchment population. Bag medical unit with physician can be operating depending on the number of residents and geographical location of a soum. Inter-soum hospitals provide health care services to the population of their own soum and neighbouring soums depending on population size and density.

Structural and Performance Standards (SPS) for Soum and Village health centres were approved in 2013. In this SPS soum or village health centres were classified into three categories according to their population size of catchment and remote status.

**Table 4.2.1** Comparing characteristics between provision of physicians per SHC, inter-soum hospital and minimal level of standard, 2015

| Grade                | Number of hospitals | Average number of physicians per hospital | Hospitals that meet the requirement |            | Hospitals failed to meet the requirement |            |
|----------------------|---------------------|---|-------------------------------------|------------|--|------------|
|                      |                     |   | Number                              | Percentage | Number                                   | Percentage |
| I grade              | 20                  | 1.9                                       | 17                                  | 85         | 3  | 15         |
| II grade             | 82                  | 2.1                                       | 42                                  | 51.2       | 40                                       | 48.8       |
| III grade            | 170                 | 2.9                                       | 131                                 | 77.1       | 39                                       | 22.9       |
| Inter-soum hospitals | 39                  | 5.5                                       | 6                                   | 15.4       | 33                                       | 84.6       |

**Figure 4.2.1.** Average grade number of doctors per SHC and inter-soum hospital, 2015

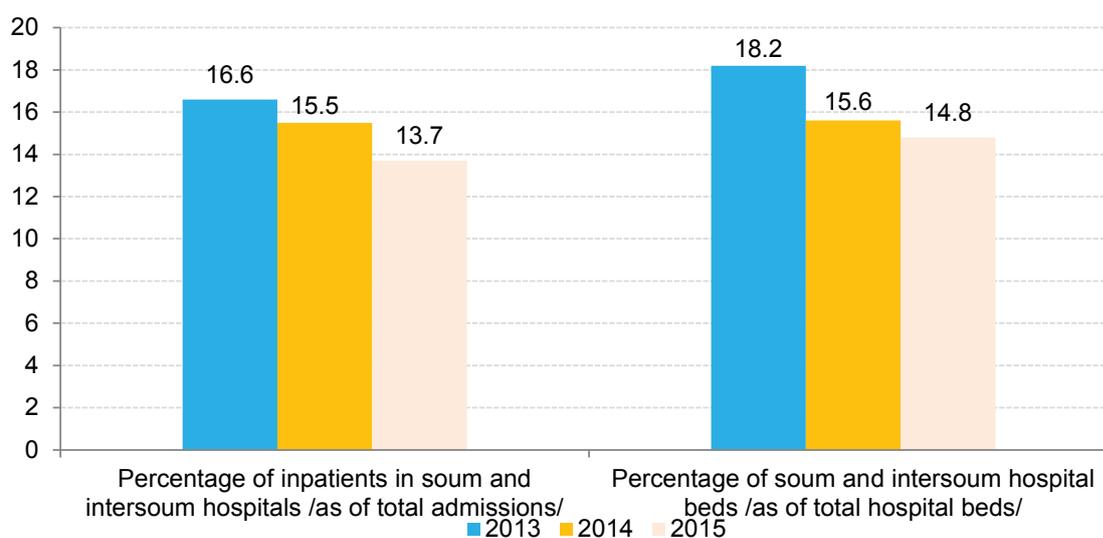


**Table 4.2.2** Some indicators for quality and accessibility of health care services in SHCs and inter-soum hospitals, 2014-2015

| Indicator                                      | 2014          |                     | Total   | 2015    |                     | Total   |
|--|---------------|---------------------|---------|---------|---------------------|---------|
|  | Soum hospital | Inter-soum hospital |         | SHC     | Inter-soum hospital |         |
| Number of hospital beds                        | 2971          | 661                 | 3632    | 2546    | 667                 | 3213    |
| Number of doctors                              | 611           | 208                 | 819     | 661     | 224                 | 885     |
| Number of nurses                               | 1383          | 256                 | 1639    | 1446    | 276                 | 1722    |
| Average length of stay                         | 7.3           | 7                   | 7.3     | 6.9     | 6.7                 | 6.9     |
| Number of inpatients                           | 101010        | 21816               | 122826  | 88386   | 19327               | 107713  |
| Number of outpatients                          | 1910213       | 438021              | 2348234 | 1554484 | 428561              | 1983045 |
| Number of check-ups                            | 37.8          | 38.7                | 37.6    | 38.1    | 36.6                | 37.8    |
| Number of early antenatal coverage             | 90.5          | 90.9                | 90.5    | 86.8    | 87.9                | 86.9    |
| Maternal mortality rate /per 1000 live births/ | 64.6          | 75.5                | 67      | 26.2    | 0                   | 18.6    |
| Infant mortality rate /per 1000 live births/   | 35.3          | 27.9                | 33.7    | 41.1    | 23                  | 35.9    |

14.8% of all hospital beds were accounted for SHC and inter-soum hospitals in 2015, and it has decreased by 419 beds or 11.5% compared to 2013.

Total number of inpatients in SHC and inter-soum hospitals was 107.7 thousand people in 2015. Number of inpatients in SHC and in inter-soum hospitals has respectively decreased by 11.4% and 12.5% compared to 2013.

**Figure 4.2.2** Number of patients and average length of stay of SHC and inter-soum hospitals, 2013-2015

Average length of stay (ALOS) at the SHC and inter-soum hospitals has decreased to 6.9 days in 2015 compared to 0.4 days in 2013. An average number of visits per capita at the SHC and inter-soum hospitals were decreased to 2.1 in 2015 compared to 2.3 days in 2013.

In 2015, percentage of prenatal care was 86.9% at SHC and inter-soum hospitals, an decrease by 3.6% compared to 2013.

In 2015, the soum health centers and intersoum-hospital maternal deaths was 18.6 per 100 000 live births.

As of 2015, infant mortality rate was 41.1 and 23.0 per 1000 live births in SHC and inter-soum hospitals respectively, a increase by 2.2 compared to 2013.

### 4.3. GENERAL HOSPITALS AND PUBLIC HEALTH CENTERS MEDICAL CARE SERVICES

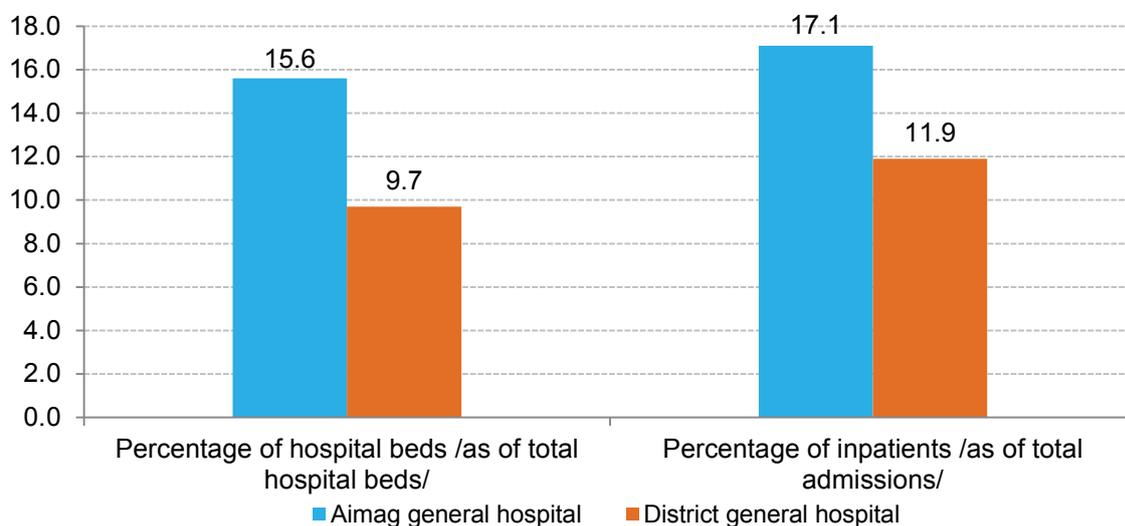
The Law on Health of Mongolia has described that general hospitals which set up as a minimum 7 departments including internal medicine, pediatrics, obstetrics and gynecology, general surgery, dentistry, neurology and infectious diseases, with the goal of providing the medical services in terms of inpatient and outpatient level. Based on location and needs of a population general hospitals could have additional outpatient unit. Public health centers provide public health services in accordance with Government policy and laws, with the goal of supporting health promoting environment at aimag and district level.

In 2015, 16 aimag general hospitals, 1030 doctors, 1,725 nurses and 626 other health professional and technical education staff, a total of 4,900 doctors, medical specialists are working. Ulaanbaatar city district general hospitals and public health centers, 795 doctors, 891 nurses, medical professional 301 technical and other education workers, a total of 3010 physicians and medical professionals are working.

3378 beds in aimag general hospitals were accounted for 15.6% of all hospitals beds and number of beds has increased by 129 compared to 2013.

District general hospital beds account for 9.7% of total hospital beds and district general hospitals the number of inpatient in 2013 was 86.4 thousand to admitted 93.4 thousand patients which is an increase by 7.0 thousand patients compared to 2013.

**Figure 4.3.1.** Number of patients and percentage of bed capacity at the aimag and district general hospitals, 2015



**Table 4.3.1. Some health care service indicators of aimag and district general hospitals, 2013-2015**

| Indicator   | 2013                   |                           | 2014                   |                           | 2015                   |                           | Average for the last 3 years |                           |
|---|------------------------|---------------------------|------------------------|---------------------------|------------------------|---------------------------|------------------------------|---------------------------|
|   | Aimag general hospital | District general hospital | Aimag general hospital | District general hospital | Aimag general hospital | District general hospital | Aimag general hospital       | District general hospital |
| Number of hospital beds                           | 3249                   | 1868                      | 3299                   | 1918                      | 3378                   | 2112                      | 3309                         | 1966                      |
| Number of physicians                              | 959                    | 796                       | 984                    | 816                       | 1030                   | 795                       | 991                          | 802                       |
| Number of nurses                                  | 1608                   | 852                       | 1664                   | 856                       | 1725                   | 891                       | 1666                         | 866                       |
| Average length of stay                            | 7.4                    | 7.3                       | 7.4                    | 7.1                       | 7.4                    | 7.0                       | 7.4                          | 7.1                       |
| Number of inpatients                              | 126902                 | 86401                     | 138248                 | 93393                     | 135033                 | 93403                     | 133394                       | 91066                     |
| Hospital deaths within 24 hrs of admission        | 32.3                   | 30.3                      | 37.5                   | 20.7                      | 32.4                   | 30.9                      | 34.1                         | 27.3                      |
| Number of outpatients                             | 1497908                | 2367979                   | 1584293                | 2406930                   | 1558984                | 2484337                   | 1547062                      | 2419749                   |
| Percentage of check-ups                           | 35.1                   | 43.7                      | 34.1                   | 40.5                      | 31.1                   | 39.3                      | 33.4                         | 41.2                      |
| Maternal mortality rate (per 100 000 live births) | 32.2                   | -                         | 22.2                   | -                         | 16.9                   | -                         | 23.6                         | -                         |
| Infant mortality (per 1000 live births)           | 11.8                   | -                         | 11.4                   | -                         | 11.7                   | -                         | 11.6                         | -                         |
| Number of referrals                               | 11.6                   | -                         | 12.9                   | -                         | 13.5                   | -                         | 12.7                         | -                         |

In 2012, the average length of stay in aimag health centres was 7.4 days and 7.3 days in district health centres, which decreased to 7.4 and 7.0 respectively in 2015.

In 2015, the percentage of deaths occurring within 24 hours in aimag general hospitals increased 0.1 percent from 2013 levels, the district general hospital level of 0.6 percent.

In 2013, the number of outpatients at aimag general hospital level was 1.4 million and district general hospital level was 2.3 million, which increased to 1.5 and 2.4 million respectively in 2015.

Percentage of preventive medical check-ups at aimag general hospitals and district general hospitals decreased by 4.0% and 4.4%, respectively, compared to 2013.

We have observed a steady decrease on infant mortality rate in past three years and it stayed at the average of 11.6. In 2015, the maternal mortality rate was 16.9 per 100 000 live births at aimag general hospitals level, which decreased by 16.3 compared to 2013.

In the last three years, the number of inpatients referred from SHC and inter-soum hospitals accounted for 12.7% of total inpatients in aimag general hospitals. In 2015, the number of inpatients referred from SHC and inter-soum hospitals decreased by 0.8% compared to 2014.

## 4.4 REGIONAL DIAGNOSTIC AND TREATMENT CENTRES MEDICAL CARE SERVICES

The regional diagnostic and treatment centers (RDTC) are health organizations providing medical care services to the population of the given region, with the goal of giving the professional methodological advice to health institutions as well as conducting some training activities.

As of 2015, aimag general hospitals in Orkhon, Dornod, Uvurkhangai, Khovd and Umnugovi aimags were functioning under the status of RDTCs at national level and 449 doctors, 694 nurses and 249 professional and technical education, medical staff, a total of 1,926 doctors and medical professionals are working.

**Table 4.4.1.** Selected indicators for RDTCs services, 2013-2015

| Indicator  | Years  |        |        | Average for the last 3 years |
|--|--------|--------|--------|------------------------------|
|  | 2013   | 2014   | 2015   |                              |
| Number of hospital beds  | 1285   | 1470   | 1484   | 1413                         |
| Average length of stay   | 7.6    | 7.6    | 7.6    | 7.6                          |
| Percentage of deaths occurred within 24 hrs of admission       | 27.9   | 30.1   | 29     | 29                           |
| Number of inpatients   | 51107  | 54773  | 55769  | 53883                        |
| Number of outpatients  | 571396 | 575205 | 556035 | 567545                       |
| Maternal mortality rate (per 100 000 live births)              | 20.3   | 31     | 20.7   | 24.0                         |
| Infant mortality rates (per 1000 live births)                  | 10.2   | 11.7   | 8.8    | 9.0                          |
| Percentage of inpatients referred from the lower level of care | 27.5   | 27.5   | 28.1   | 27.7                         |

In 2015, total of 55.7 thousand inpatients were admitted to RDTCs.

On average RDTCs admitted 15692 patients referred from soum health centers, inter-soum hospitals and aimag general hospitals in the region which account for 28.1% of total admissions.

The average length of stay at RDTC was 7.6 in 2015.

In addition, Percentage of deaths within 24 hours has declined from 29.0 percent in 2015 to 27.9 in 2013.

In reference to decreasing tendency of country for last three years, an average infant mortality rate was 9.0 per 1000 live births in 2013-2015, which is lower compared to the aimag average. In 2015, each one case of maternal mortality was reported at RDTC in Umnugovi and Uvurkhangai aimags.

**Table 4.4.2.** Selected indicators of RDTC medical care services, 2015

| №            | Aimag RDTC  | Total number of employees | Allied health professionals | Number of  |            | Number of beds |
|--------------|-------------|---------------------------|-----------------------------|------------|------------|----------------|
|              |             |                           |                             | Doctors    | Nurses     |                |
| 1            | Dornod      | 500                       | 104                         | 172        | 65         | 281            |
| 2            | Orkhon      | 510                       | 113                         | 202        | 58         | 434            |
| 3            | Uvurkhangai | 328                       | 83                          | 114        | 50         | 301            |
| 4            | Umnugovi    | 214                       | 57                          | 69         | 28         | 210            |
| 5            | Khovd       | 374                       | 92                          | 137        | 48         | 258            |
| <b>Total</b> |             | <b>1926</b>               | <b>449</b>                  | <b>694</b> | <b>249</b> | <b>1484</b>    |

**Table 4.4.3. Some indicators of RDTCs, 2015**

| "Aimag RDTC" | Number of inpatients | Bed days      | Average length of stay | Hospital deaths within 24 hrs of admission | Outpatient visits | "Maternal mortality rate /per 100000 live births/" | "Infant mortality rate /per 1000 live births/" | "Under-five mortality rate /per 1000 live births/" |
|--------------|----------------------|---------------|------------------------|--|-------------------|--|--|--|
| Dornod       | 10965                | 86139         | 7.9                    | 23.8                                       | 109266            | 0.0  | 3.7  | 6.9  |
| Orkhon       | 14589                | 108873        | 7.5                    | 39.3                                       | 147545            | 0  | 10.0   | 10.8   |
| Uvurkhangai  | 10196                | 76654         | 7.5                    | 27.9                                       | 84257             | 50.6   | 11.6   | 13.2   |
| Umnugovi     | 7229                 | 49773         | 6.9                    | 28.2                                       | 95776             | 83.8   | 10.1   | 11.7   |
| Khovd        | 12790                | 101835        | 8.0                    | 23.3                                       | 119191            | 0  | 8.5  | 14.9   |
| <b>Total</b> | <b>55769</b>         | <b>423274</b> | <b>7.6</b>             | <b>29</b>                                  | <b>556035</b>     | <b>20.7</b>  | <b>8.8</b>                                     | <b>11.4</b>  |

## 4.5. CENTRAL HOSPITALS AND SPECIALIZED CENTERS MEDICAL CARE SERVICES

Central hospitals and specialized centers are health organizations to provide specialized professional medical inpatient and outpatient services at national level and carry out research and training activities, with the role of giving a professional consultations and methodological recommendations to other health organizations.

As of 2015, a total of 5782 health professionals were worked in Central hospitals and specialized centers, including 1221 medical doctors, 1912 nurses and 459 professional and technical education, medical staff, respectively.

Central hospitals and specialized centres in Ulaanbaatar city account for 17.7% of all hospital beds and 18.0% of inpatients.

The average length of stay in 2013 was 9.5 days which decreased to 8.9 days in 2015.

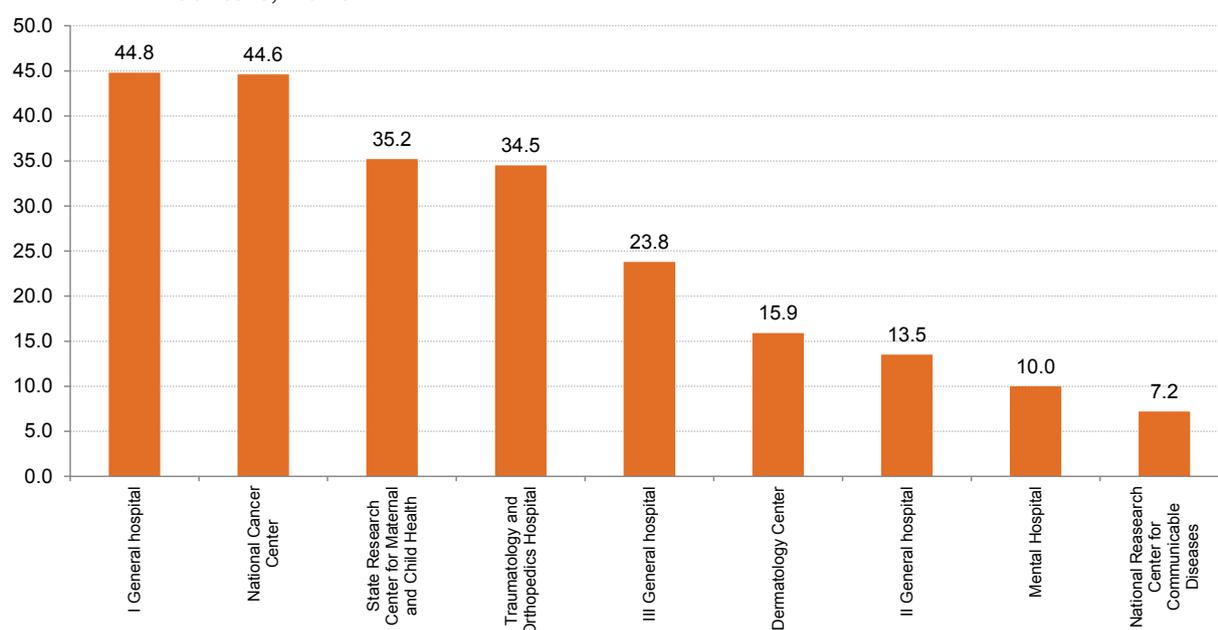
Furthermore, the percentage of total in-hospital deaths occurring within 24 hours after admission decreased from 24.5% in 2013 to 20.5% in 2015, making the average over the last three years is 24.3%.

**Table 4.5.1. Quality and accessibility indicators of medical care services in central hospitals and specialized centers, 2013-2015**

| Indicator  | Years     |           |           | Average for the last 3 years |
|--|-----------|-----------|-----------|------------------------------|
|  | 2013      | 2014      | 2015      |                              |
| Number of hospital beds  | 4187      | 3818      | 3837      | 3947                         |
| Number of doctors  | 1383      | 1229      | 1221      | 1278                         |
| Number of nurses   | 2071      | 1879      | 1912      | 1954                         |
| Average length of stay   | 9.5       | 9.4       | 8.9       | 9.3                          |
| Percentage of deaths occurred within 24 hrs of admission       | 24.5      | 27.9      | 20.5      | 24.3                         |
| Number of inpatients   | 146 375   | 134 088   | 141 977   | 140 813                      |
| Number of outpatients  | 1 385 032 | 1 233 558 | 1 279 401 | 1 299 330                    |
| Percentage of inpatients referred from the lower level of care | 39 380    | 30 355    | 30 520    | 3 3418.3                     |

Within the last 3 years, an average of 140.8 thousand in-patients were treated in central hospitals and specialized centers, of which 23.7% were transferred from countryside.

Compared to 2013, the total number of inpatients increased by 3.0% in 2015, and referred patients from the rural areas decreased by 0.3%.

**Figure 4.5.1.** Referral percentage of patients from countryside to central hospitals and specialized centers, 2015**Table 4.5.2.** Selected indicators for the central hospitals and specialized centers, 2015

| Hospitals  | Number of outpatient visits | Number of hospital admissions | Average length of hospital stay | Hospital deaths within 24 hrs after admission |
|--|-----------------------------|-------------------------------|---------------------------------|---|
| I State Central Hospital   | 304758                      | 21053                         | 7.3                             | 18.8  |
| II State Central Hospital  | 91906                       | 8189                          | 8.1                             | 8.0   |
| III State Central Hospital   | 161810                      | 17536                         | 7.8                             | 15.2  |
| National Centre for Mother and Child                                 | 145153                      | 39236                         | 6.4                             | 4.4   |
| National Cancer Centre   | 72513                       | 15315                         | 10.0                            | 7.0   |
| National Infectious Diseases Centre                                  | 55343                       | 9885                          | 7.4                             | 19.8  |
| National Traumatology and Orthopaedics                               | 114466                      | 13797                         | 10.4                            | 24.1  |
| National Centre for Dermatology                                      | 72966                       | 5058                          | 9.4                             | 0.0   |
| National Centre for Mental Health                                    | 11658                       | 5637                          | 31.0                            | 0.0   |
| Sanatorium for children  | 0                           | 795                           | 27.7                            | 0.0   |
| Traditional Medicine, Technology and Production National Corporation | 15876                       | 5393                          | 7.5                             | 0.0   |
| Centre of Forensic Medicine  | 17818                       | 0                             | 0                               | 0   |
| National Gerontological Centre                                       | 16443                       | 0                             | 0                               | 0   |

## 4.6. PRIVATE HOSPITALS AND CLINICS MEDICAL CARE SERVICES

As of 2015, a total of 8197 health professionals were worked in 224 private inpatient hospitals and 1006 private outpatient clinics, including 2698 physicians, 1941 nurses a respectively.

**Table 4.6.1** Selected indicators for medical care services of private hospitals and clinics, 2015

|                                  | 2000  | 2005      | 2009      | 2010      | 2011      | 2012      | 2013      | 2014      | 2015      |
|----------------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Private hospitals                | 466   | 160       | 160       | 166       | 171       | 179       | 197       | 202       | 224       |
| Private clinics                  |       | 523       | 922       | 947       | 1013      | 851       | 822       | 969       | 1006      |
| Number of beds                   | 964   | 1982      | 2422      | 2527      | 3069      | 3606      | 3829      | 4542      | 5262      |
| Percentage for all hospital beds | 5.4   | 10.8      | 13.6      | 14.2      | 16.2      | 18.4      | 19.3      | 22.1      | 24.2      |
| Number of doctors                | 736   | 1145      | 1396      | 1549      | 1677      | 1904      | 1965      | 2368      | 2698      |
| Number of nurses                 | 296   | 682       | 858       | 1007      | 1135      | 1275      | 1326      | 1742      | 1941      |
| Outpatient visits                | -     | 1 016 705 | 1 304 897 | 1 036 934 | 1,986,901 | 1,320,932 | 1,756,769 | 1,786,670 | 1,912,718 |
| Number of inpatients             | 23592 | 63 267    | 75 003    | 86 117    | 97,821    | 111,338   | 121,452   | 124,610   | 142,052   |
| Average length of stay           | 11.3  | 9         | 8.1       | 7.9       | 8.2       | 7.7       | 7.4       | 7.3       | 7         |

There were 1982 beds in private hospitals in 2005 and this number has increased to 5262 beds in 2015, which is 24.2% of all hospital beds in the country.

Since 2005, the establishment of new private sector, especially with hospital beds were limited, but some services offered by these private hospitals were similar to services offered by state hospitals. Therefore, health policy has focused on expanding activities and of these hospitals and supporting the establishment of diversifications.

In 2005, a total of 1016705 patients received outpatient services and there were 63267 inpatients at the private hospitals, but in 2015, the number increased to 1 912 718 and 1 45052 respectively.

Looking at the private hospitals by bed capacity, 7.6% of hospitals have 5-8 beds, 24.1% have 10-12 beds, 16.5% have 15 beds, 5.9% have above the 50 beds respectively.

**Figure 4.6.2.** Bed capacity of private inpatient hospitals, 2015

| Indicators   | 2015       |              | Average for the last 3 years |              |
|--------------|------------|--------------|------------------------------|--------------|
|              | Number     | Percent      | Number                       | Percent      |
| 5-8 beds     | 17         | 7.6          | 2501                         | 1.8          |
| 10-12 beds   | 54         | 24.1         | 17278                        | 12.2         |
| 15 beds      | 37         | 16.5         | 16038                        | 11.3         |
| 20-25 beds   | 61         | 27.2         | 37158                        | 26.2         |
| 30 beds      | 18         | 8.0          | 14604                        | 10.3         |
| 40-50 beds   | 24         | 10.7         | 19655                        | 13.8         |
| 50 beds      | 13         | 5.8          | 34818                        | 24.5         |
| <b>Total</b> | <b>224</b> | <b>100.0</b> | <b>142052</b>                | <b>100.0</b> |



# CHAPTER 5

HUMAN RESOURCES IN  
THE HEALTH SECTOR

## CHAPTER 5

# HUMAN RESOURCES IN THE HEALTH SECTOR

In 2015, total of 47.4 thousand healthcare employees were worked in the public and private organizations of the health sector and this number was increased by 2.9% compared to the previous year.

Of the all workers accounted 93.2 percent in the health sectors, 6.8 percent in other sectors health workers

22.9 per cent of total employees in the primary health care, 18.0 per cent of secondary and 16.3 per cent of tertiary health facility, 17.3 percent of the private health-care facilities, and 25.5 percent of maternity hospitals and other health care organizations working in health care is provided.

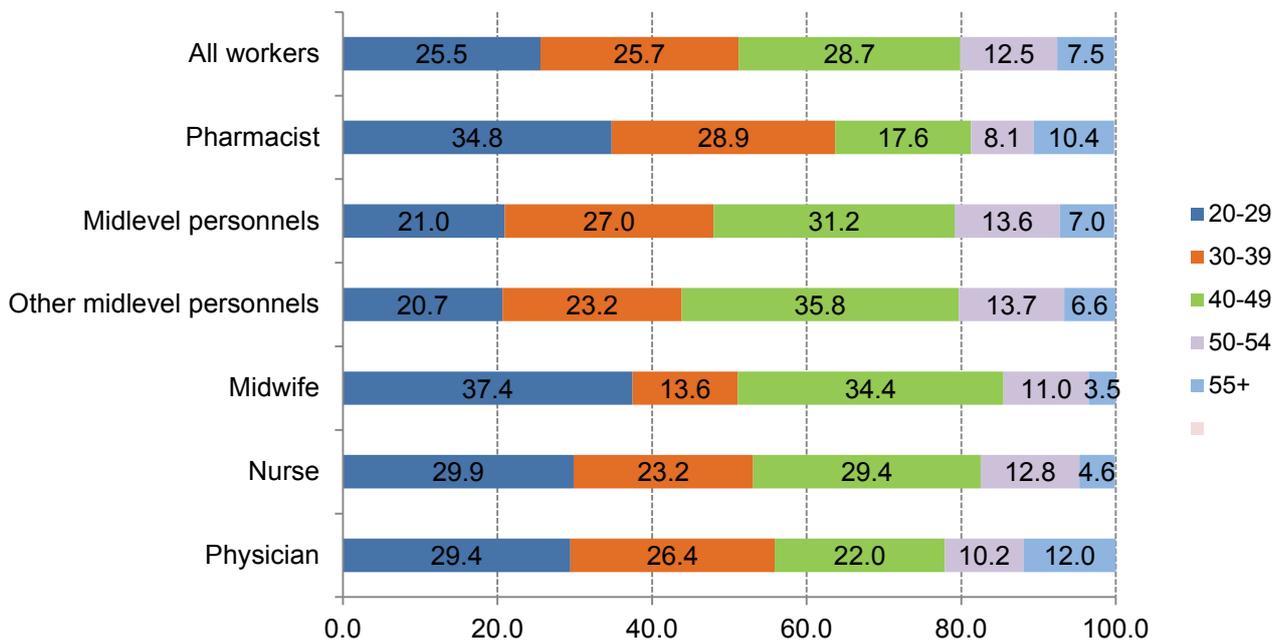
Of total healthcare employees, there were recorded 9.5 thousand physicians, 1.5 thousand pharmacists, 11.3 thousand nurses and 7.4 other medical professional and technical education staff, respectively.

As of 2015, an average number of population per a physician and per a nurses were 316 and 267, respectively, and both indicators declined by 2 and 4 persons, as compared to the previous year.

in 2015, by looking at occupation of healthcare personnel who provide medical services were as follows;physicians 20.2 %, nurses 23.9 % and other medical professional and technical education staff 15.6 %, respectively. Women is accounted for 81.7% of all employees.

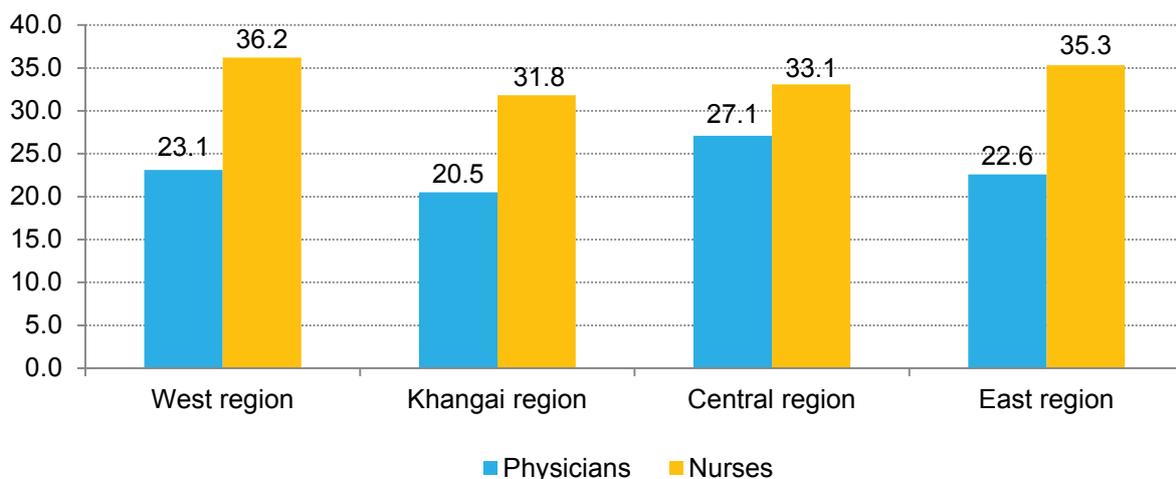
Total doctors and nurses 29.7 / 24.1% of the primary level, 20.5 / 24.5% secondary level, 17.5 / 22.9 percent are working in the tertiary level.

As of 2015 there were 31.6 physicians, 37.5 nurses and 24.5 other medical professional and technical education staff, respectively per 10 000 population. An average number of physicians and nurses per 100 000 population was increased by 0.2 and 0.6, respectively compared to 2014. The physicians, nurses ratio was as follows; at the national level 1.0:1.2, in Ulaanbaatar city 1.0:0.9 and at the aimag level 1.0:1.5, respectively.

**Figure 5.1** Health professionals by age, 2015

The proportion of health professionals aged 20-29 years has been increasing in the health sectors for the last years.

Looking by geographical distribution (location) of health professionals, there were 42.3 doctors and 42.8 nurses per 10 000 population in Ulaanbaatar while 22.6 doctors and 33.1 nurses per 10 000 population were in rural areas. This data indicates that a high density of doctors in Ulaanbaatar city. Especially, the number of surgeons, trauma and orthopedics specialists, radiology and lab specialists and pediatricians were 1.0, 3.0, 3.0-3.5 and 1.1 times, respectively higher in Ulaanbaatar city than other rural areas.

**Figure 5.2.** Physicians and nurses per 10 000 population by regions, 2015

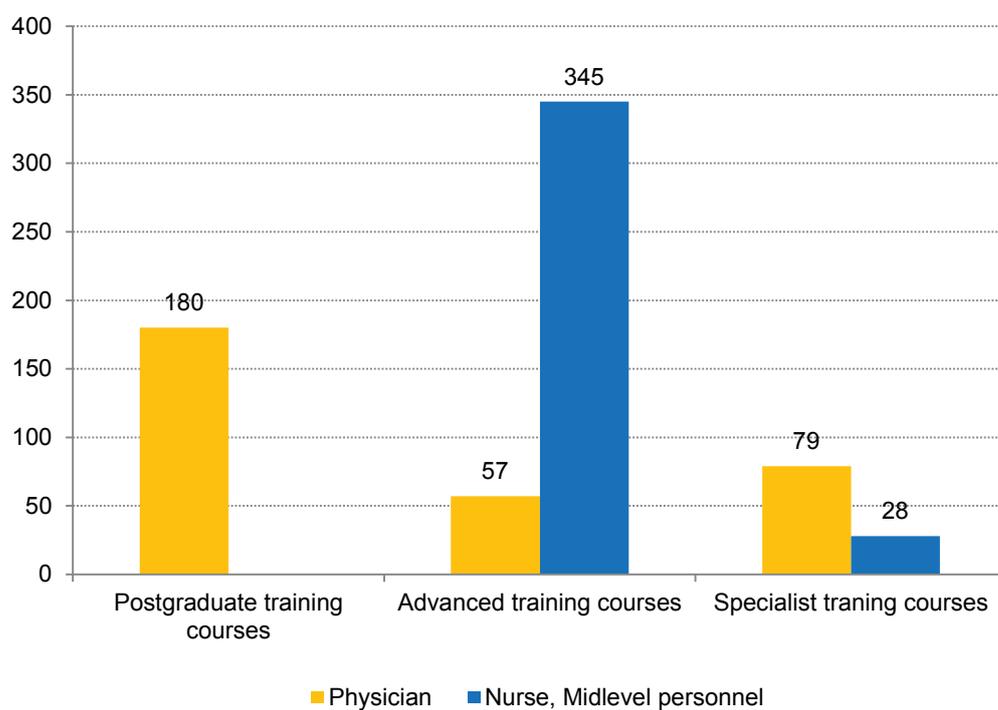
The number of doctor per 10 000 population was higher in the Central region compared to other regions, and the number of nurses per 10 000 population was lower in the Khangai and Central region than other regions.

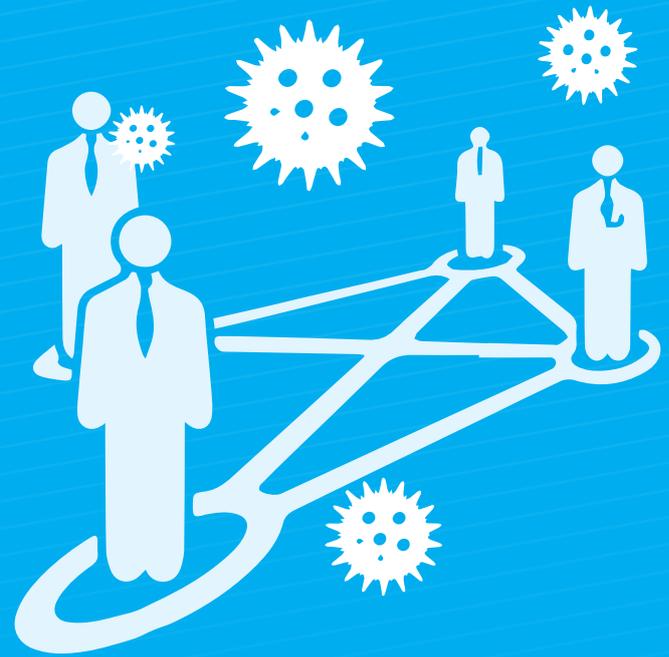
As of 2015, total of 1230 private health organizations were functioning with 8197 health professionals. Physicians accounted for 32.9% of the total staff, and nurses accounted for 23.7% of the total staff. By type of physician's specializations in private sector were as follows; dentists 29.2%, 11.2% doctors of the traditional medicine,

### Postgraduate training for medical professionals

In 2015, 310 doctors, 373 nurses and other medical professionals were enrolled in postgraduate training of medical professionals, including residency and specialization and fellowship training, financed by the State fund, Government of Mongolia.

**Figure 5.3.** Number of physicians, nurses, and other health professionals enrolled in the postgraduate training financed by the State fund, 2015





# CHAPTER 6

[ COMMUNICABLE  
DISEASES ]

# CHAPTER 6

## COMMUNICABLE DISEASES

### 6.1 TOTAL COMMUNICABLE DISEASES

In 2015, 59 400 cases of 29 different communicable diseases were registered, which compared to the previous year, increased by 25884 cases or 200.5 per 10 000 population.

Compared to the previous year, the indicators show there has been an decrease in diseases per 10 000 populations in Gobi-Sumber, Darkhan-uul, Gobi-Altai, Bulgan and increased by 1.5-79.6 cases per 10 000 populations in other aimags and 159.9 Ulaanbaatar city.

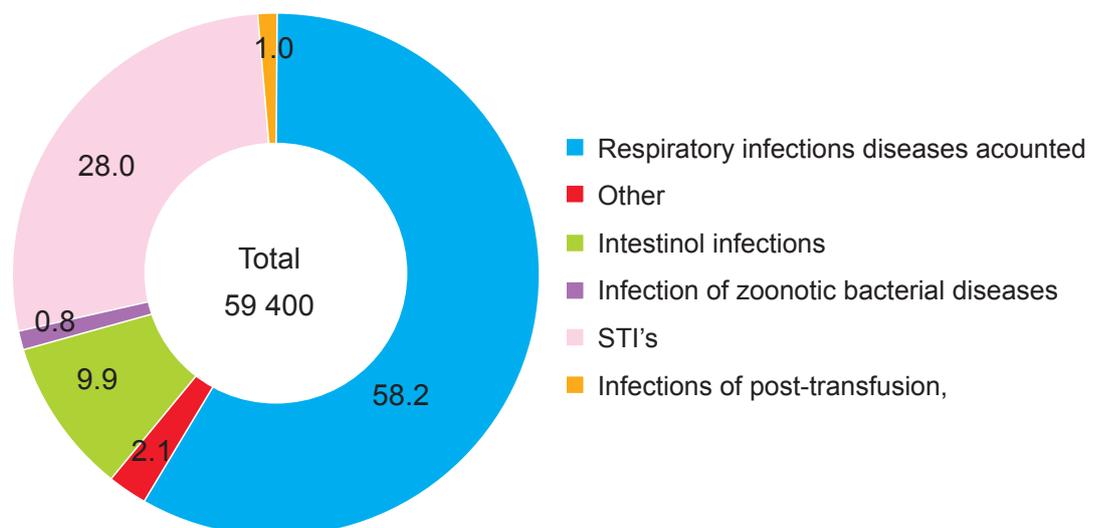
In 2015, measles, varicella, syphilis, scarlet fever, gonococcal infection, shigellosis, trichomoniasis, tuberculosis, salmonella infections, rubella, lime disease, tick-borne encephalites, erythema infectois, brucellosis increased by 0.1-79.2 cases per 10 000 population, compared to the previous year.

Reported infectious disease in 2015, Dornod aimag and Ulaanbaatar city is higher than the national average. /national average is 200.5 per 10 000 population/

68.1% of all infectious diseases at the national level were registered Ulaanbaatar city.

9.9% of communicable diseases registered in 2015 at the national level were intestinal infections, 58.2% were respiratory diseases, 0.8% were zoonotic bacterial diseases, 28.1% were sexually transmitted infections.

**Figure 6.1.1.** Total communicable diseases registered at national level, 2015



## 6.2 INTESTINAL INFECTION

In 2015, 5 053 cases of 7 different intestinal infections such as viral hepatitis A, dysentery, food poisoning, salmonella, diarrhea, and hand-foot-mouth disease were registered at the national level, taking up 9.9% of all communicable diseases.

4029 cases (79.7%) of intestinal infections registered at the national level occurred in Ulaanbaatar city. 1.6% of intestinal infections were viral hepatitis A, 54.2% was dysentery, 30.2% was hand-foot-mouth disease, 9.5% food poisoning, 2.9% salmonella, 1.6% diarrhoea infection.

**Table 6.2.1. Number of cases of intestinal infections per 10 000 population, 2014-2015**

| "Infectious diseases<br>/ICD-10/"       | 2014               |                          | 2015               |                          | Increase/<br>decrease    |
|---|--------------------|--------------------------|--------------------|--------------------------|--------------------------|
|   | Absolute<br>number | Per 10 000<br>population | Absolute<br>number | Per 10 000<br>population | Per 10 000<br>population |
| Typhoid and paratyphoid fever           | 4                  | 0.0                      | 1                  | 0.0                      | 0.0                      |
| Salmonella infections                   | 95                 | 0.3                      | 146                | 0.5                      | 0.2                      |
| Shigellosis                             | 2312               | 7.9                      | 2737               | 9.2                      | 1.3                      |
| Other bacterial foodborne intoxications | 548                | 1.9                      | 482                | 1.6                      | -0.3                     |
| Diarrhea infections                     | 162                | 0.6                      | 81                 | 0.3                      | -0.3                     |
| Viral hepatitis A                       | 325                | 1.1                      | 82                 | 0.3                      | -0.8                     |
| Hand-foot-mouth disease                 | 1788               | 6.1                      | 1524               | 5.1                      | -1.0                     |

### 6.2.1. OTHER BACTERIAL FOODBORNE INTOXICATIONS

A total of 482 cases or 1.6 per 10 000 population of other bacterial food borne intoxications were registered at the national level, taking up 9.5% of all intestinal infections. Of the total number of other bacterial food borne intoxications, 376 cases (78.0%) were registered in Ulaanbaatar, making them 2.7 per 10 000 population. In 2015, there was an increase in 141 cases or 1.0 in Ulaanbaatar, 207 cases or 1.3 in aimags respectively compared to previous years. Other bacterial foodborne intoxications cases reported by last ten years compared to 2008, 2012 in highest level.

In 2015, reported by Orkhon 8.3, Dundgobi 5.4, Darkhan-Uul 0.3, Khuvsgul 0.2, Tuv 0.1, Ulaanbaatar city 2.7 per 10000 population. Looking by monthly the most cases other bacterial foodborne intoxications occurred in August and September.

By age groups reported and higher incidence were among children 5-9 years old 63.6 percent.

Other bacterial foodborne intoxications patients by social status of cases are as follows: 68 children in kindergarten (14.1%), 23 workers (4.8%) and school children 335 (69.5%) respectively. /Source: Annual report, NCCD/

### 6.2.2. VIRAL HEPATITIS

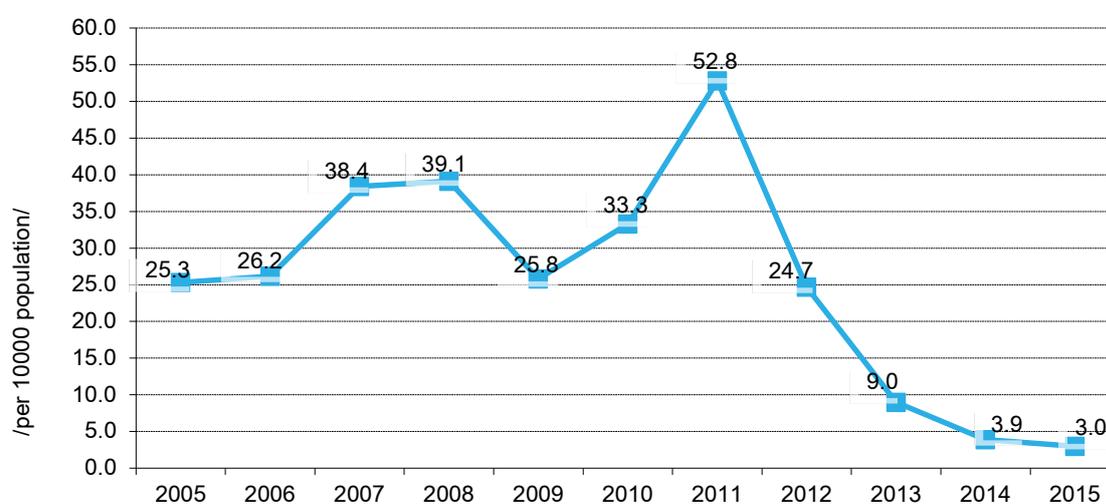
A total of 892 cases of viral hepatitis were registered at the national level, taking up 1.5% of all communicable diseases, and compared to the previous year, has decreased by 254 cases.

Of the total number of viral hepatitis, 9.1% was viral hepatitis A, 54.1% was viral hepatitis B, and 14.6% was other viral hepatitis. Hepatitis A and hepatitis B decreased by 0.8 and 0.4 per 10 000 population, compared to last year. According to the morbidity of acute hepatitis A, registered over the last 10 years, the maximum was 52.6 per 10 000 people in 2011. Acute hepatitis A in the 20-29 ages recorded the highest, incidence among all age groups decreased and registered than highest male.

According to the hepatitis A, the social, schools and kindergartens are the highest recorded. Over all morbidity 52.4 percent were schools and kindergartens disease.

**Table 6.2.2.1. Viral hepatitis, per 10 000 population /by aimags higher than national average 2014-2015**

| Aimag                  | 2014            |                       | 2015            |                       | Increase/decrease     |
|------------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------------|
|                        | Absolute number | Per 10 000 population | Absolute number | Per 10 000 population | Per 10 000 population |
| Govisumber             | 5               | 3.4                   | 9               | 5.8                   | 2.4                   |
| Umnugovi               | 26              | 3.9                   | 25              | 3.9                   | 0.0                   |
| Ulaanbaatar            | 603             | 4.4                   | 523             | 3.8                   | -0.6                  |
| Uvs                    | 43              | 5.8                   | 26              | 3.5                   | -2.3                  |
| Arkhangai              | 47              | 5.5                   | 30              | 3.4                   | -2.1                  |
| Sukhbaatar             | 25              | 4.7                   | 19              | 3.4                   | -1.3                  |
| Darkhan-Uul            | 86              | 8.7                   | 31              | 3.1                   | -5.6                  |
| <b>Country average</b> | <b>1146</b>     | <b>3.9</b>            | <b>892</b>      | <b>3.0</b>            | <b>-0.9</b>           |

**Figure 6.2.1. Viral hepatitis per 10 000 population, 2005-2015**

## 6.3 RESPIRATORY INFECTIONS

34600 cases of respiratory infections were registered, taking up 58.2% of all communicable diseases. Majority of the respiratory infections were measles (67.8%), tuberculosis (12.3%), varicella (16.3%) and scarlet fever (2.2%).

Compared to 2014, mumps decreased by 0.7, measles, varicella, tuberculosis, rubella, scarlet fever and erythema infectiosum increased by 79.2, 3.2, 0.2, 0.2, 1.6, 0.1 respectively.

**Table 6.3.1. Number of registered cases of respiratory infections per 10 000 population, 2014-2015**

| "Infectious diseases /ICD-10/" | 2014            |                       | 2015            |                       | Increase/decrease     |
|--------------------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------------|
|                                | Absolute number | Per 10 000 population | Absolute number | Per 10 000 population | Per 10 000 population |
| Tuberculosis                   | 4 172           | 14.2                  | 4 270           | 14.4                  | 0.2                   |
| Scarlet fever                  | 276             | 0.9                   | 754             | 2.5                   | 1.6                   |
| Meningococcal infection        | 14              | 0.0                   | 11              | 0.0                   | 0.0                   |
| Varicella                      | 4 639           | 15.8                  | 5 624           | 19.0                  | 3.2                   |
| Measles                        | 0               | 0.0                   | 23 464          | 79.2                  | 79.2                  |
| Rubella                        | 1               | 0.0                   | 49              | 0.2                   | 0.2                   |
| Mumps                          | 425             | 1.5                   | 241             | 0.8                   | -0.7                  |
| Erysipelas                     | 136             | 0.5                   | 145             | 0.5                   | 0.0                   |
| Gas gangrene                   | 1               | 0.0                   | 0               | 0.0                   | 0.0                   |
| Erythema infectiosum           | 13              | 0.0                   | 42              | 0.1                   | 0.1                   |

### 6.3.1 TUBERCULOSIS

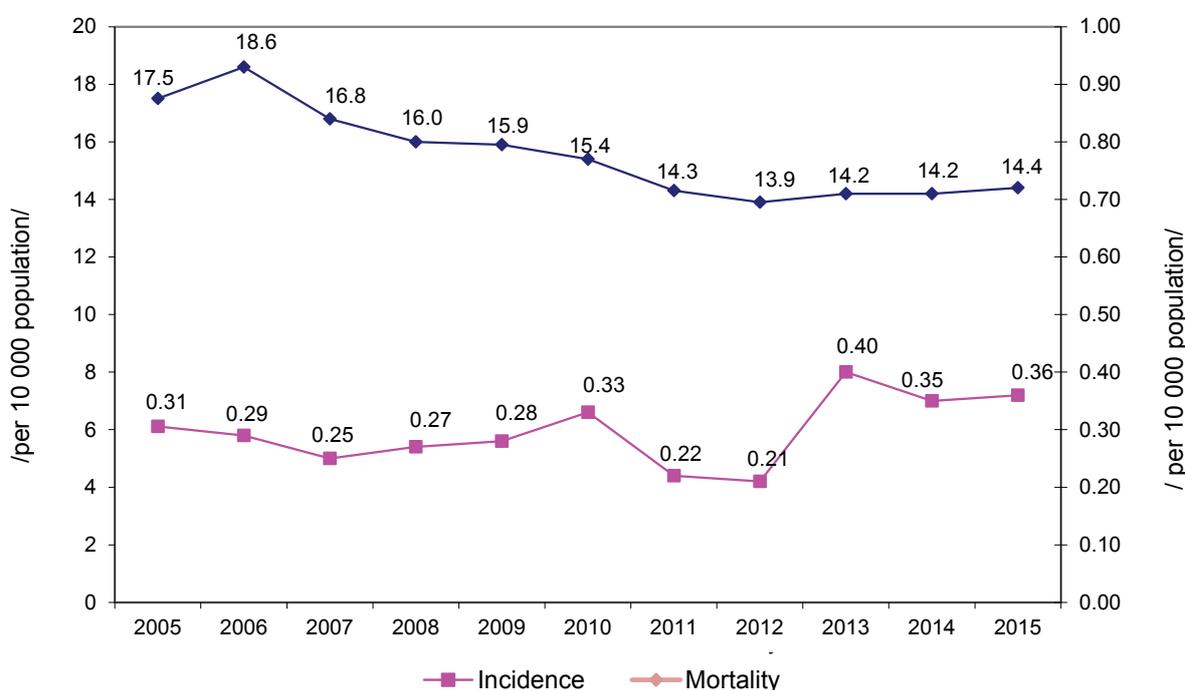
The 4 270 new registered cases of tuberculosis take up 7.2% of all communicable diseases. 2 534 cases occurred in Ulaanbaatar city, taking up 59.3% of all tuberculosis. In 2015, incidence of tuberculosis per 10000 population in Darkhan-Uul /22.3/, Dornod /21.0/, Khentii /20.3/, Selenge /18.4/, Sukhbaatar /14.7/ aimags and Ulaanbaatar /18.5/ was higher than national average.

New registered tuberculosis was pulmonary tuberculosis 2361 /55.3%/, decreasing by 106 /3.7%/ cases compared to the previous year and were extra pulmonary cases 1909/44.7%/ increasing by 204/3.7%/ cases. Looking at the registered new cases by age group, 67.0% were 15-44 years old, 55.3% were males and 44.7% females.

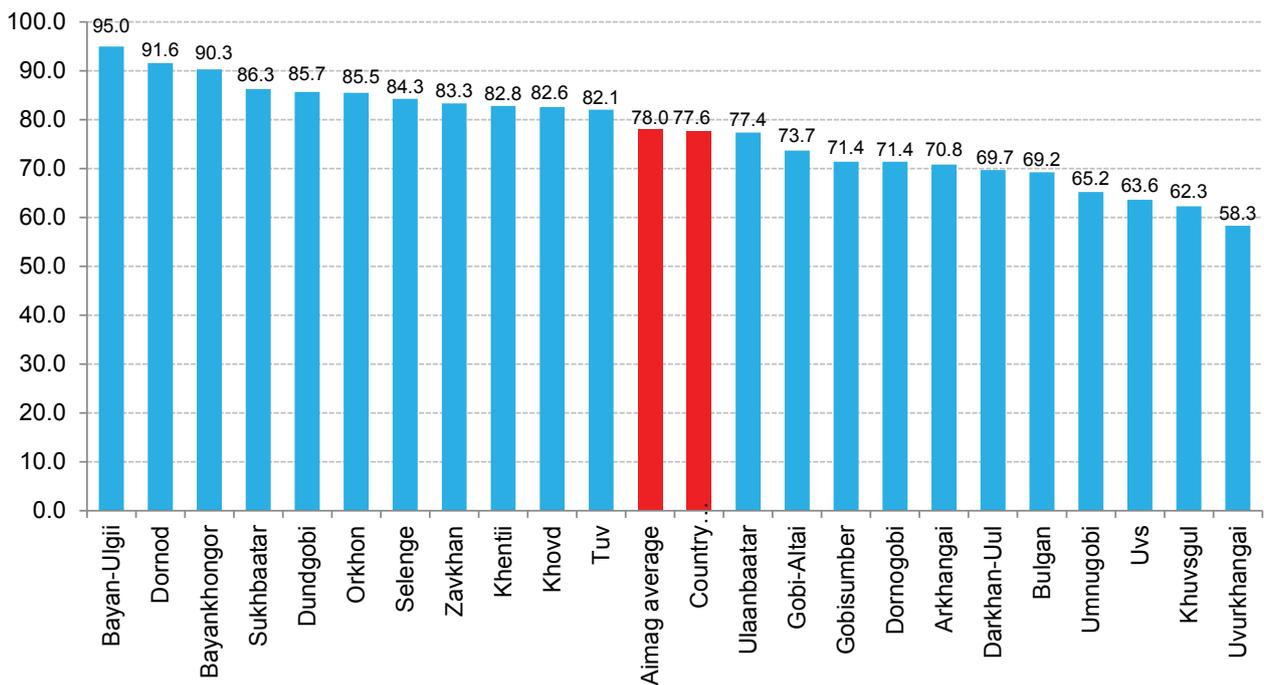
**Table 6.3.1.1** Tuberculosis per 10'000 population by aimags higher than national average, /2014-2015/

| Аймаг                  | 2014            |                       | 2015            |                       | Increase/decrease     |
|------------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------------|
|                        | Absolute number | Per 10 000 population | Absolute number | Per 10 000 population | Per 10 000 population |
| Darkhan-Uul            | 189             | 19.1                  | 222             | 22.3                  | 3.2                   |
| Dornod                 | 123             | 17.2                  | 154             | 21.0                  | 3.8                   |
| Khentii                | 92              | 13.6                  | 141             | 20.3                  | 6.7                   |
| Ulaanbaatar            | 2 558           | 18.6                  | 2 534           | 18.5                  | -0.1                  |
| Selenge                | 230             | 22.3                  | 193             | 18.4                  | -3.9                  |
| Sukhbaatar             | 62              | 11.7                  | 81              | 14.7                  | 3                     |
| <b>Country average</b> | <b>4172</b>     | <b>14.2</b>           | <b>4270</b>     | <b>14.4</b>           | <b>0.2</b>            |

**Figure 6.3.1.1.** Tuberculosis incidence and mortality trend, 2005-2015



In 2015 tuberculosis registered cases 421 children of 0-14 years old, pulmonary 65 cases, were extra pulmonary 356 cases. Looking at the children's tuberculosis of complication have been 2 type registered acute miliary tuberculosis 6, tuberculosis meningitis 2 cases, compared by previos year increased 2 and decreased 2 cases.

**Figure 6.3.1.2 Tuberculosis percentage of verified cases, 2015**

In 2015, 77.6% of all cases diagnoses were verified, which is 3.0% increase in verified diagnosis and 0.8% decrease in cured cases. In 2015 case detection rate was 79.5% and cure rate 84.3%. Detection and cure rates decreased by 1.2% and 0.8% compared with 2014. /Source: Annal report 2015, NCCD/

### 6.3.2 MUMPS

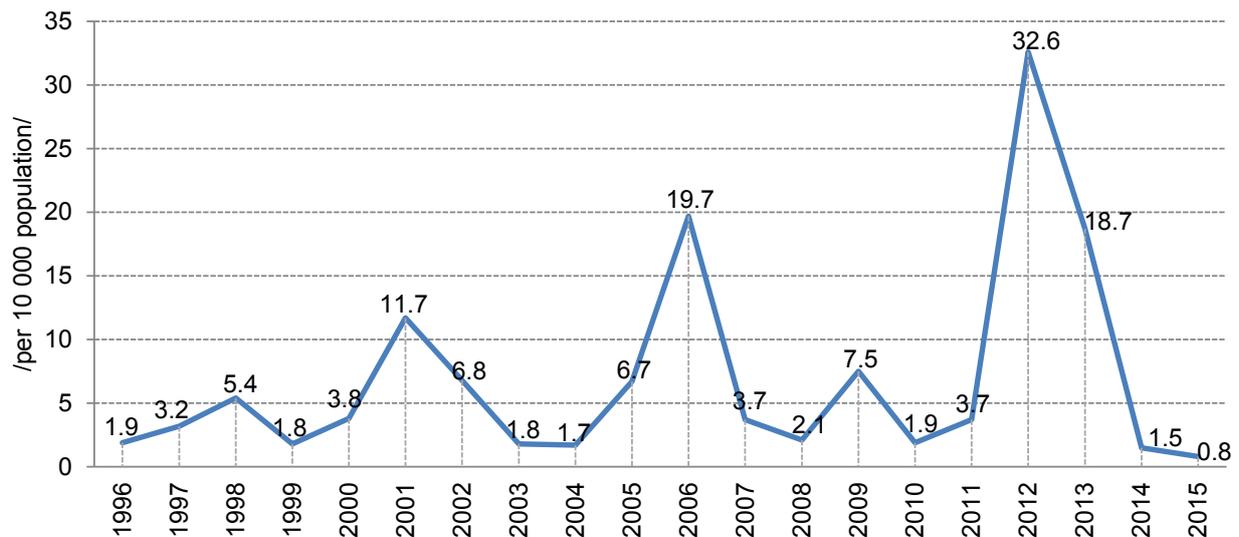
Decrease in cases of mumps as 0.8 per 10 000 population or 241 cases at national level in 2015 compared to 0.7 per 10 000 population or 184 cases of last year.

Mumps accounted for 0.4% of all infectious diseases.

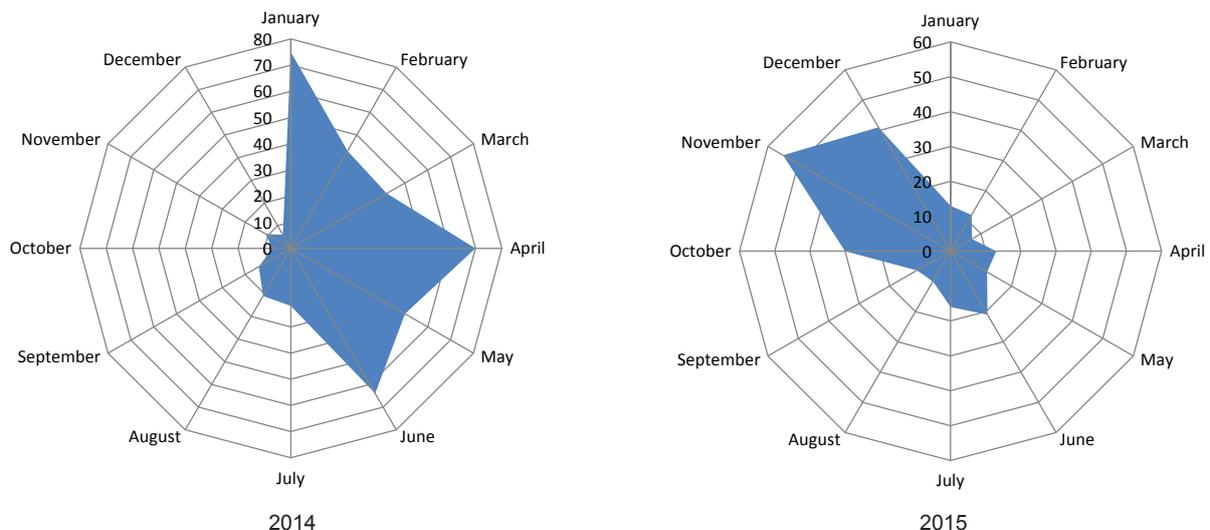
Incidence of mumps increased by 0.4-0.5, and by aimags were as follows: Dornod /4.1/, Sukhbaatar /0.4/, Uvurkhangaigai /0.6/, Tuv/1.2/ per 10 000 population. Others have declined.

Of all registered cases, 65.9% were registered in Ulaanbaatar city and decrease in cases as 0.2 per 10 000 population of last year.

Mumps disease among all age groups, registered in 2015, and 89.1 percent of were registered among children 0-19 years old.

**Figure 6.3.2.1.** Mumps trend per 10 000 population, /1996-2015/

By looking at the data of 1996-2015, it was observed 3-4 years pattern of increase of mumps.

**Figure 6.3.2.2.** Number of mumps cases by month, 2014, 2015

### 6.3.3 VARICELLA

This year there were 5 624 cases or 19.0 per 10 000 population, which increased by 3.2 cases compared to the previous year. In 2015, varicella incidence rate was higher than country average (19.0) in the following aimags: Dornod - 50.7, Umnugovi -29.8, Dornogovi - 28.5, Bayankhongor - 27.7, Sukhbaatar -27.0, Ulaanbaatar city - 24.3 Khentii -19.5 and Tuv - 19.1 per 10 000 population.

It was 3.0-22.7% increase in Sukhbaatar, Tuv, Bayankhongor, Khovd, Orkhon, Ulaanbaatar city and 0.3-14.7% decrease in the remaining aimags compared to last year.

According to the varicella, registerian data since 2010 years, disease accuracy increase from end of October through November and reaches peak point during March and May.

80.8% (4 543) of all cases occurred in children aged 0-14 years, of which 60.6% is accounted for up to 4 years old.

## 6.4 SEXUALLY TRANSMITTED INFECTIONS

16 709 cases of STI's were registered, taking up 28.1% of communicable diseases, and compared to the previous year, has increased by 3.6 per 10 000 population or 1409 cases.

29.7% of STI's were gonorrhea, 45.9% were syphilis, 24.2% were trichomoniasis and 0.2% were HIV/AIDS.

**Table 6.4.1.** Number of cases of STI's per 10 000 population, 2014-2015

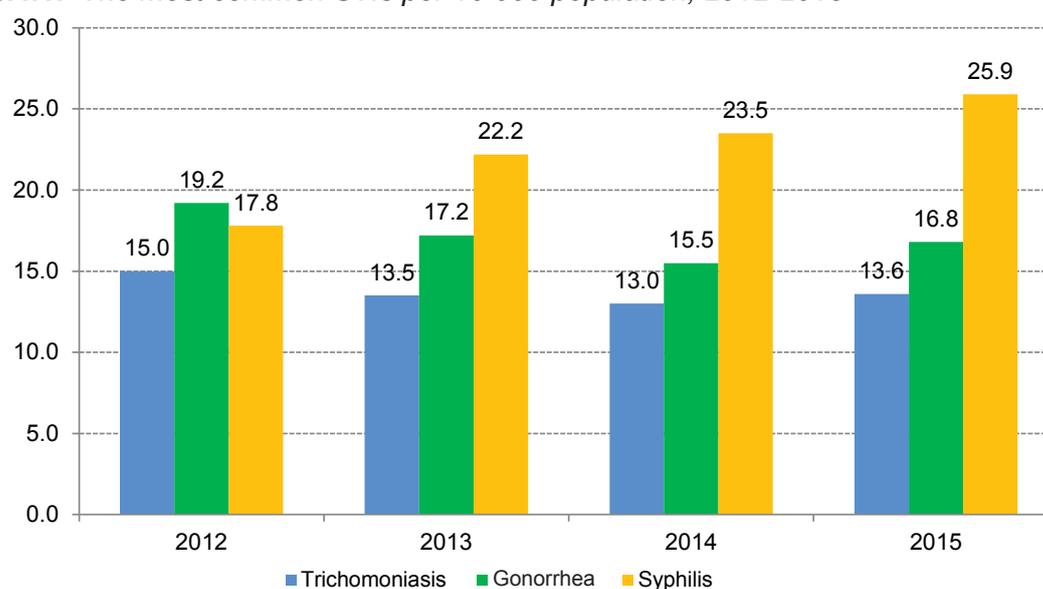
| "Infectious diseases /ICD-10/" | 2014            |                       | 2015            |                       | Increase/decrease     |
|--------------------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------------|
|                                | Absolute number | Per 10 000 population | Absolute number | Per 10 000 population | Per 10 000 population |
| Syphilis                       | 6 890           | 23.5                  | 7 678           | 25.9                  | 2.4                   |
| Gonorrhea                      | 4 556           | 15.5                  | 4 975           | 16.8                  | 1.3                   |
| Trichomoniasis                 | 3 823           | 13.0                  | 4 038           | 13.6                  | 0.6                   |
| HIV/AIDS                       | 31              | 0.1                   | 18              | 0.1                   | 0.0                   |

Syphilis per 10 000 population was higher than national and aimag level in Dornod, Khuvsgul, Bayankhongor, Govi-Altai, Sukhbaatar, Dornogovi, Orkhon aimags and Ulaanbaatar city, gonorrhea was higher in Dornod, Khuvsgul, Bayankhongor, Sukhbaatar, Dornogovi aimags and trichomoniasis disease was higher in Dornod, Bayankhongor, Dundgovi, Bulgan, Khovd aimags and Ulaanbaatar city, respectively.

In 2015, 52 cases of congenital syphilis were registered, which is increased by 22 cases, compared to the previous year. There were 3 cases of congenital syphilis in Bayan-Ulgii aimag, 1 in Bayankhongor aimag, 2 in Bulgan aimag, 1 in Dornogovi aimag, 2 in Dornod, 1 in Zavkhan, 5 in Orkhon, 1 in Sukhbaatar, 3 in Tuv, 1 in Khovd, 2 in Khuvsgul and 30 cases in Ulaanbaatar city. Out of total registered cases 19 deaths occurred.

Causes of increase in syphilis cases are inadequate pregnancy monitoring, it's quality and access. In 2015, 80 percent of the pregnant women with registered syphilis is not attended the antenatal care medical check-ups or only one time tested. /Source: Annual Report 2015, NCCD/

**Figure 6.4.1.** The most common STIs per 10 000 population, 2012-2015



In 2015, 63.5% of women and 36.5% men contacted the most common STIs.

By age groups there were 0.5% of children aged 0-4 years, 0.3% of age 5-14 years, 43.4% of 15-24 years old, 50.2% of 25-44 years old, 5.3% of 45-64 years old.

There were 199 registered cases of HIV/AIDS, and 18 of them were new cases in 2015.

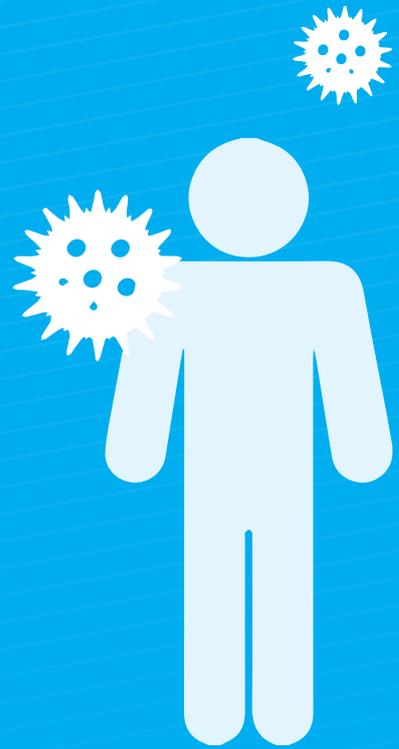
Of all cases of HIV infection were transmitted through sexual transmission.

The majority 66.7% (12) of HIV cases are males, of whom 66.6% (8) are MSM. Out of total registered AIDS 3 patients passed away.

By new estimation (Spectrum/EPP 5.03, 2015) HIV infection cases may reach 862 in Mongolia by end of 2015. /Source: Annual Report 2015, NCCD/

## **6.5. COMMUNICABLE DISEASE MORTALITY**

There were 157 cases of death caused by communicable disease were registered. According to the registration of total cases of death, there were 107 cases of tuberculosis, 19 cases of syphilis, 14 cases of viral hepatitis, 8 cases of measles, 3 cases of HIV, 2 cases of plague, 1 case of infectious meningitis, 1 case of tick-borne encephalites, 1 case of bacterial sepsis of newborn, 1 case of erysipelas.



# CHAPTER 7

NON-  
COMMUNICABLE  
DISEASES

# CHAPTER 7

## NON-COMMUNICABLE DISEASES

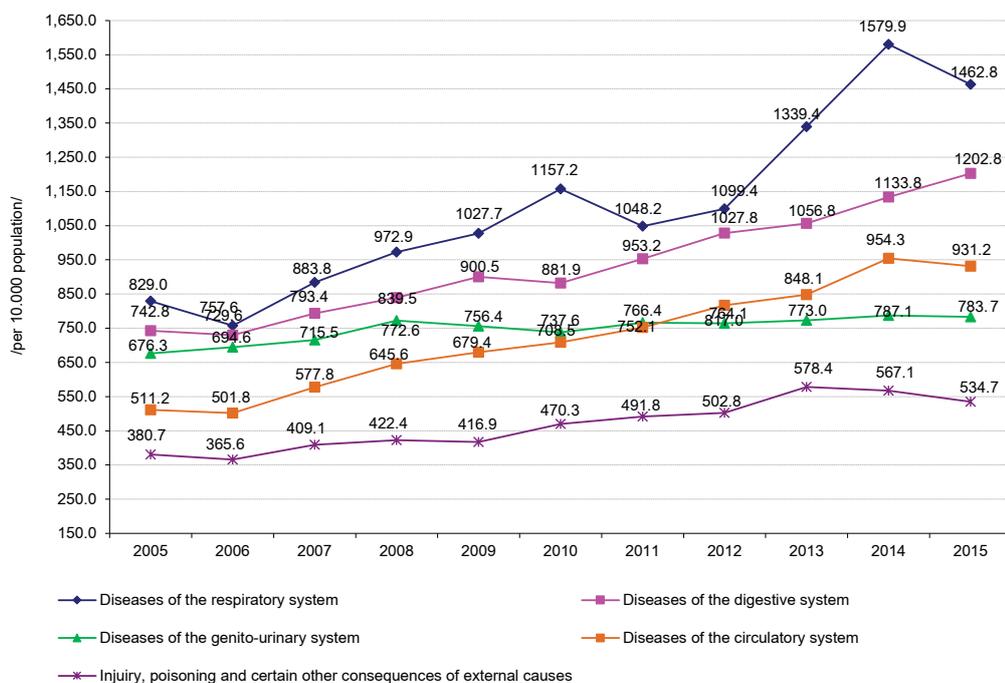
### 7.1 MAIN CAUSES OF POPULATION MORBIDITY

The leading causes of non-communicable diseases cardiovascular disease, stroke, cancer, diabet, chronic disease respiratory and occurred in low-and middle-income country's. Countries need to make progress on all these targets to attain the overarching target of a 25% reduction of premature mortality from the four major NCDs by 2025. The country's population of non-communicable disease is the leading cause of illness among 10 000 population increased by 1.1-1.7 times compared with 2004.

In 2004, digestive system was 859.5 per 10000 population, and it increased to 1202.8 in 2015.

Non-infectious causes of alcohol and tobacco use, unhealthy diet and physical inactivity among the country's population has increased extreme. More than half or 53.2 percent of the population aged 45-65 years have high risk for NCDs. /Source: Steps survey on the prevalence of non-communicable disease and injury risk factors, Mongolia-2013/

#### 7.1.1. Five leading causes of morbidity, per 10 000 population /2005-2015/



As of 2015, diseases of the respiratory system per 10 000 population were 1462.8, diseases of the digestive system were 1202.8, diseases of the genito-urinary system were 783.7, diseases of the circulatory system were 931.2, and injuries, poisoning and certain other consequences of external causes were 534.6, which results compared to 2014, the leading causes has decreased, and diseases of digestive system has increased (Figure 7.1.1).

As of 2015, the 5 leading causes of population morbidity per 10 000 population:

- Diseases of Respiratory System – 1462.8
- Diseases of Digestive System – 1202.8
- Diseases of Circulatory System – 931.2
- Diseases of Genito-urinary System– 783.7
- Injuries, poisoning and certain other consequences of external causes - 534.6

In urban and rural area, three leading causes of morbidity in 2015 were diseases of respiratory, digestive systems and diseases of the circulatory system, respectively.

For instance, diseases of the respiratory system per 10 000 population is 1484.4 in the urban areas and 1444.6 for in the rural areas, diseases the digestive system is 1173.7 in the urban areas and 1227.2 for the rural areas, the diseases of circulatory system is 918.2 for the urban areas and 942.0 for the rural areas, genito-urinary system diseases is 769.7 for the urban areas and 795.4 for the rural areas, injuries, poisoning and certain other consequences of external causes is 886.1 for the urban and 240.3 for the rural areas.

**Table 7.1.1. Five leading causes of morbidity, by age and sex, 2015**

|                           | Total morbidity | Respiratory system diseases | Digestive system diseases | Genitourinary system diseases | Circulatory system diseases | Injurie, poisoning and certain other consequences of external causes |
|---------------------------|-----------------|-----------------------------|---------------------------|-------------------------------|-----------------------------|--|
| <b>Sex</b>                |                 |                             |                           |                               |                             |  |
| Male                      | 6059.6          | 1431.8                      | 969.6                     | 360.7                         | 720.7                       | 685.0  |
| Female                    | 9180.8          | 1492.5                      | 1427.4                    | 1191.0                        | 1133.9                      | 389.8  |
| <b>Age group /Male/</b>   |                 |                             |                           |                               |                             |  |
| Under 20 years old        | 6050.9          | 2836.2                      | 974.4                     | 162.3                         | 34.8                        | 544.5  |
| 20-44                     | 4249.8          | 418.0                       | 714.7                     | 380.1                         | 349.6                       | 839.8  |
| 45-65                     | 8955.0          | 681.2                       | 1442.0                    | 636.8                         | 2337.8                      | 671.9  |
| Over 65 years old         | 16924.0         | 1456.7                      | 2119.0                    | 1271.0                        | 6224.0                      | 601.0  |
| <b>Age group /Female/</b> |                 |                             |                           |                               |                             |  |
| Under 20 years old        | 5987.7          | 2688.7                      | 1028.3                    | 234.6                         | 46.9                        | 308.9  |
| 20-44                     | 9220.1          | 723.9                       | 1304.0                    | 1729.9                        | 572.9                       | 406.0  |
| 45-65                     | 13935.5         | 982.4                       | 2319.1                    | 1917.5                        | 3303.2                      | 510.4  |
| Over 65 years old         | 29347.0         | 2007.9                      | 4233.7                    | 2521.1                        | 10349.2                     | 866.0  |
| <b>Residency</b>          |                 |                             |                           |                               |                             |  |
| Urban                     | 8644.1          | 1484.4                      | 1173.7                    | 769.7                         | 918.2                       | 886.1  |
| Rural                     | 6816.5          | 1444.6                      | 1227.2                    | 795.4                         | 942.0                       | 240.3  |
| <b>Location</b>           |                 |                             |                           |                               |                             |  |
| Western                   | 5741.0          | 1111.6                      | 1014.3                    | 765.8                         | 784.3                       | 145.9  |
| Khangai                   | 7066.7          | 1482.7                      | 1159.7                    | 890.5                         | 1077.9                      | 241.7  |
| Central                   | 7185.5          | 1589.8                      | 1336.1                    | 791.1                         | 966.6                       | 290.1  |
| Eastern                   | 7263.8          | 1347.5                      | 1557.3                    | 596.0                         | 800.6                       | 295.6  |
| <b>Country average</b>    | <b>7649.5</b>   | <b>1462.7</b>               | <b>1202.8</b>             | <b>783.7</b>                  | <b>931.2</b>                | <b>534.6</b>   |

When comparing the morbidity registration of 10 000 female populations to male population, the female population is higher by 1.5 times. Looking at the causes of morbidity, men receive outpatient services for injuries, poisoning and certain other consequences of external causes, which is higher than female by 1.8 times, but the other leading causes of morbidity is lower by 1.0-3.3 times.

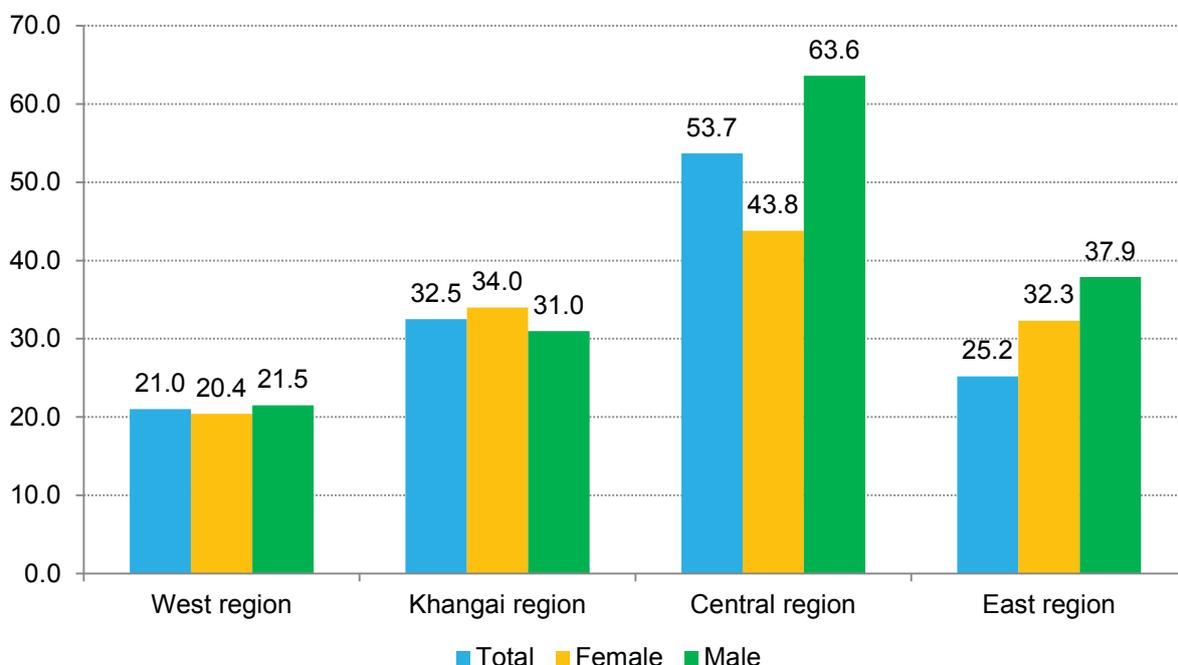
The incidence rates of the 3 leading causes of morbidity by region were as follows: Western Region - diseases of the respiratory system (1111.6), digestive system (1014.3) and genitourinary system (765.8); Khangai Region - diseases of the respiratory system (1482.7), digestive system (1159.7) and diseases of the circulatory system (1077.9); Central and Eastern Regions respectively - diseases of the respiratory system 1589.8 and (1347.5), diseases of the digestive system (1336.1 and 1557.3) and diseases of the genitourinary system (791.1 and 596.0).

Compared to other regions, the incidence rates of diseases of the respiratory system were highest in the Central and Khangai regions, rates of diseases of the digestive system were highest in the Eastern and Central regions, rates of diseases of the genitourinary system were highest in the Central and Khangai regions, rates of diseases of the circulatory system were highest in the Central and Khangai regions, and rates of injuries, poisonings and certain other consequences of external causes were highest in the Central and Eastern regions.

## 7.2 DIABETES

The worldwide number of people with diabetes has risen from 108 million in 1980 to 422 million in 2014. In 2014, 8.5% of adults aged over 18 years old had diabetes, and was the cause of increasing mortality due to circulatory disease.

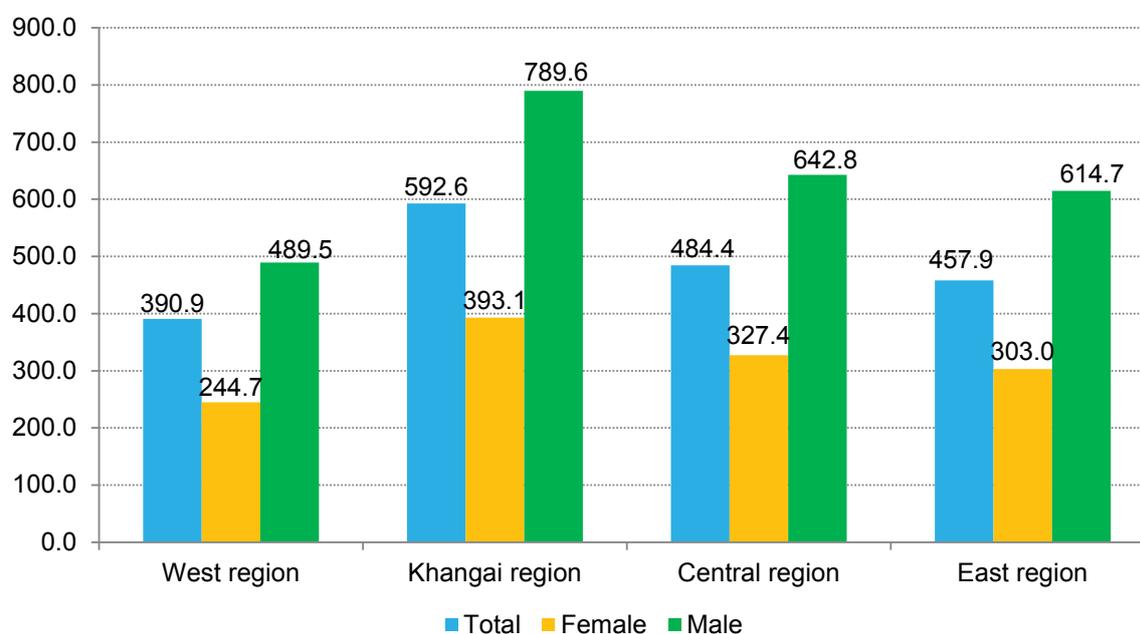
**Figure 7.2.1** Diabetes by sex and regions, per 10 000 population, 2015



Diabetes accounted for 49.9% of all endocrine, nutritional and metabolic diseases and it was decreased from 73.6 in 2014 to 63.8 in 2015 and by 9.8 cases per 10 000 population compared to the previous year. There were 61.5 males and 66.0 females per 10 000 population.

Looking by age groups, 238.7 per 10 000 population /12062/ were in 45-65 age group. By location, the Central region had higher rate /53.7 per 10 000 population, 43.8 males and 63.6 females per 10 000 population/ and higher occurrence in Darkhan-Uul /78.9/, Selenge /59.4/, Umnugobi /58.8/ and Gobi-Sumber /52.2/.

**Figure 7.2.2. Arterial hypertension by sex and regions, per 10 000 population, 2015**



Arterial hypertension accounts for 48.8% of all diseases of the circulatory system, which is 454.4 per 10 000 population. There were 583.4 females and 320.4 males per 10 000 population. By age groups, there were 1568.7 and 3453.3 cases per 10 000 population in 45-65 age group and over 65 years age, increasing by 155.9 cases among of working age group compared to last year.

Looking by location, population of Khangai region is suffering more compared to people of other regions and higher occurrence in Bulgan /1017.5/, Arkhangai /784.0/, Bayankhongor /651.7/ and Uvurkhangai /507.6/ aimags.

## 7.3. CANCER

In 2015, among newly registered cancer males accounted for 50.2% and females accounted for 49.8%. Liver cancer accounted 39.1% of the all newly registered cancer and when comparing to last year increased by 4 percent and it has been taking most highest rank.

**Хүснэгт 7.3.1. The most common ten location cancer, by sex, 2015**

|   | Total     |         | Male             |         | Female    |         |
|---|-----------|---------|------------------|---------|-----------|---------|
|   | Neoplasms | Percent | Neoplasms        | Percent | Neoplasms | Percent |
| 1 | Liver     | 39.1    | Liver            | 39.9    | Liver     | 35.4    |
| 2 | Stomach   | 14.7    | Stomach          | 18.8    | Cervical  | 14.8    |
| 3 | Cervical  | 7.7     | Lungs            | 11.0    | Stomach   | 9.4     |
| 4 | Lungs     | 7.2     | Esophagus        | 6.4     | Breast    | 7.5     |
| 5 | Esophagus | 6.6     | Pancreas         | 3.1     | Esophagus | 6.3     |
| 6 | Breast    | 3.9     | Colon and rectum | 3.0     | Ovary     | 3.3     |

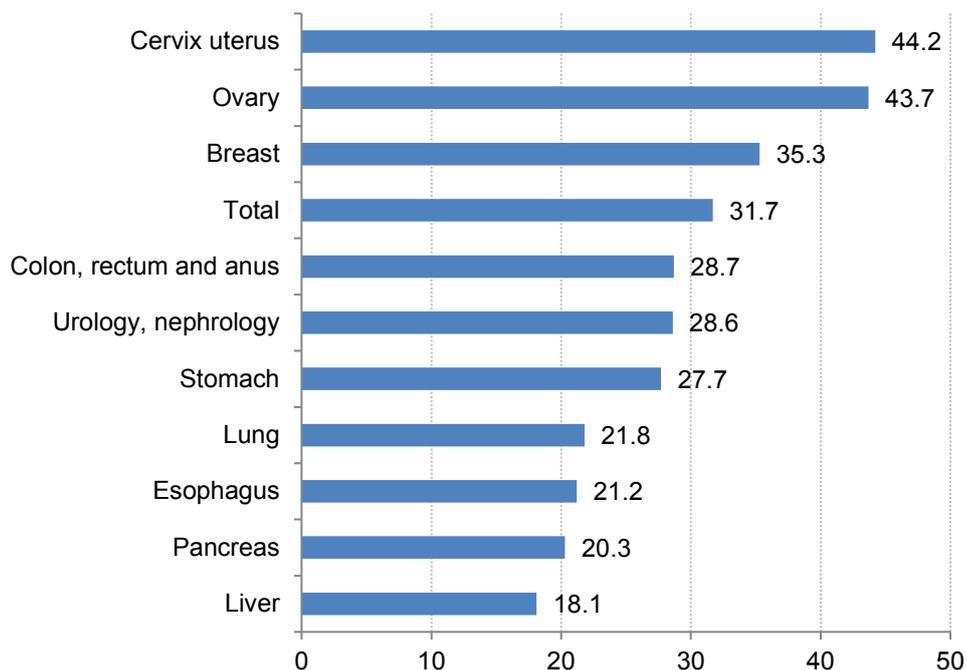
|    |                     |     |                              |     |                     |     |
|----|---------------------|-----|------------------------------|-----|---------------------|-----|
| 7  | Pancreas            | 2.9 | Urology, nephrology          | 3.0 | Colon and rectum    | 3.1 |
| 8  | Urology, nephrology | 2.7 | Lip, oral cavity and pharynx | 1.8 | Lungs               | 2.8 |
| 9  | Colon and rectum    | 2.5 | Male genital organs          | 1.7 | Pancreas            | 2.5 |
| 10 | Ovary               | 1.7 | Bone period cartilage        | 0.9 | Urology, nephrology | 2.4 |

In males, stomach cancer was 18.8%, it took second rank and the third rank was lung cancer 11% and followed by esophagus and colon cancers taken high ranked. In females, second-ranked cancer was cervical cancer 14.8%, third-ranked cancer was stomach cancer 9.4% and followed by breast and esophagus cancer taken high ranked (Table 1).

### 7.3.1. Cancer control

15036 people registered with cancer is undergoing active medical control by the oncologists at the aimag and district health centers. As of 2015, 31.7% of them survived more than 5 years after the diagnosis this indicator increased by 2.8% compared to previous year. In females, 44.2% of the all registered cervical cancer cases survived more than 5 years and when compared with other cancers this indicating high ranked indicators (Figure 7.3.1.1.)

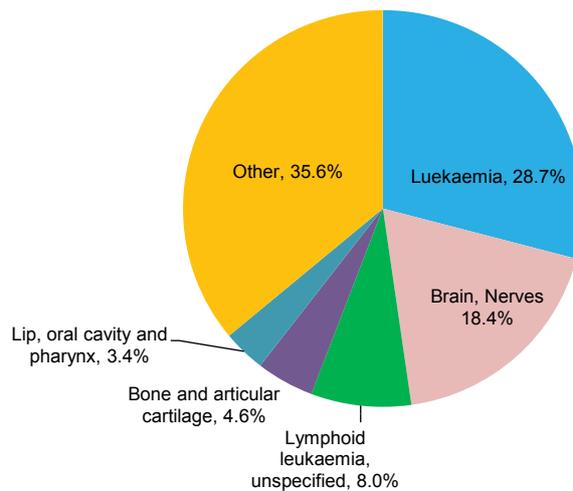
**Figure 7.3.1.1.** Top prevalent cancers case-control group of people more than 5 years living percentage, 2015



### 7.3.2. Children cancer disease rate, mortality

In 2015, nationwide registered 87 children cancer cases, 50 were male (57.4%), 37 were female (42.5%). It was increased by 20 cases compared to the last year. By age groups, 32.2% cancer cases were among 0-4 years old children, 20.7% were among 5-9 years old children, 18.4% were 10-14 years old children, 28.7% were 15-19 years old children.

### Зрпaz 7.3.2.1. Children prevalent cancer cases structure, 2015



In children cancers primary ranked cases were lymphoid leukemia, brain, neurology system, leukemia, and non-Hodgkin Lymphoma (7.3.2.1.).

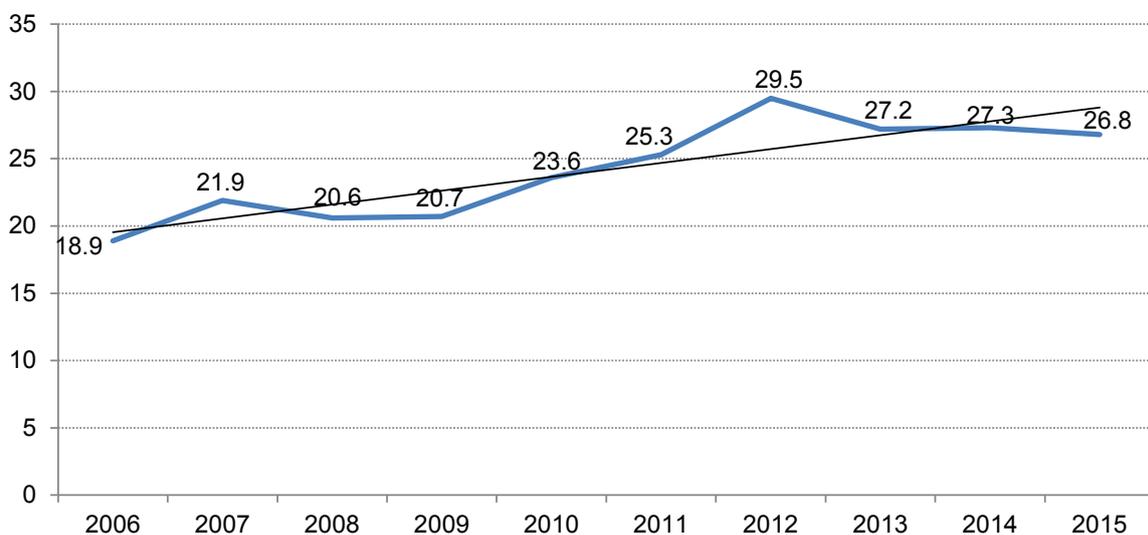
Every 4 cases among 0-4 years old children, 5 cases children among 5-9 years old children, 7 cases among 10-14 years old children, 12 cases among 15-19 years old children per 100 000 children were registered with cancer.

Total of 37 children cancer deaths, 29.7% were among 0-4 years old children, 18.9% were 5-9 years old children, 21.6% were 10-14 years old children and 29.7% were among 15-19 years old children.

## 7.4. CONGENITAL MALFORMATIONS

In 2015, congenital malformations, deformations and chromosomal abnormalities were registered 8014, was 0.35 respectively. 60.9 in age group of 0-19 ages were occurred in the 33.2 /1619/ percent 1-4 ages. Compared by sex; male and female 1:1.8. Total of the congenital malformations in the 64.6 percent in urban, 35.4percent in rural.

**Picture. 7.4.1.** Congenital malformations, deformations and chromosomal abnormalities, per 10000 population, 2006-2015



Uvurkhangai, Bayankhongor, Arkhangai, Tuv, and Khuvsgul aimags have high incidence rate per 10 000 population of the congenital malformations, deformation and chromosomal abnormalities diseases.

## 7.5. LEADING CAUSES OF THE INPATIENT MORBIDITY

As of 2015, the five leading causes of Inpatient morbidity per 10 000 population:

- Diseases of Respiratory System – 345.6
- Diseases of cardiovascular and Circulatory System – 383.7
- Diseases of Digestive System – 330.8
- Diseases of Genitourinary System– 300.2
- Diseases of Neuropathy System– 185.8

**Table 7.5.1** Five leading causes of the Inpatient morbidity by age, sex, 2015

|                           | Total morbidity | Respiratory system diseases | Digestive system diseases | Urogenital system diseases | Cardiovascular system diseases | Nervous system diseases |
|---------------------------|-----------------|-----------------------------|---------------------------|----------------------------|--------------------------------|-------------------------|
| <b>Sex</b>                |                 |                             |                           |                            |                                |                         |
| Male                      | 1935.4          | 370.4                       | 311.3                     | 156.3                      | 325.5                          | 157.5                   |
| Female                    | 3226.5          | 321.6                       | 349.6                     | 438.8                      | 439.7                          | 213.0                   |
| <b>Age group /Male/</b>   |                 |                             |                           |                            |                                |                         |
| Under 20 years old        | 1593.7          | 728.0                       | 245.9                     | 69.4                       | 15.5                           | 81.5                    |
| 20-44                     | 1340.4          | 92.2                        | 261.5                     | 162.9                      | 147.1                          | 155.8                   |
| 45-65                     | 3350.6          | 193.3                       | 523.9                     | 270.6                      | 1027.6                         | 295.6                   |
| Over 65 years old         | 7396.6          | 574.2                       | 783.9                     | 613.5                      | 3105.7                         | 465.4                   |
| <b>Age group /Female/</b> |                 |                             |                           |                            |                                |                         |
| Under 20 years old        | 1538.9          | 613.4                       | 220.2                     | 98.9                       | 19.4                           | 79.0                    |
| 20-44                     | 3737.1          | 107.4                       | 249.9                     | 603.2                      | 177.5                          | 188.3                   |
| 45-65                     | 4491.9          | 205.1                       | 678.9                     | 698.7                      | 1204.1                         | 455.5                   |
| Over 65 years old         | 12844.7         | 717.1                       | 1706.3                    | 1283.4                     | 5053.3                         | 976.4                   |
| <b>Location</b>           |                 |                             |                           |                            |                                |                         |
| Urban                     | 2083.2          | 362.7                       | 405.4                     | 305.8                      | 406.7                          | 213.4                   |
| Rural                     | 3020.1          | 331.2                       | 268.3                     | 295.5                      | 364.4                          | 162.7                   |
| <b>Regions</b>            |                 |                             |                           |                            |                                |                         |
| Western                   | 2593.0          | 351.8                       | 336.3                     | 351.9                      | 400.0                          | 230.9                   |
| Khangai                   | 2102.8          | 280.1                       | 247.9                     | 312.5                      | 377.9                          | 136.2                   |
| Central                   | 2151.2          | 381.5                       | 239.1                     | 266.0                      | 348.3                          | 140.0                   |
| Eastern                   | 2186.7          | 317.2                       | 266.9                     | 211.7                      | 298.1                          | 162.1                   |
| <b>Country average</b>    | <b>2593.1</b>   | <b>345.6</b>                | <b>330.8</b>              | <b>300.2</b>               | <b>383.7</b>                   | <b>185.8</b>            |

Hospital admission rates were 1935.4 per 10 000 in males and 3226.5 per 10 000 in females and approximately half of all inpatients were male.

Inpatient admission rate per 10 000 population was 1.7 times lower in males than females.

As of 2015, the five leading causes among hospitalized patients were as follows:

Among patients with diseases of the genito-urinary system, 63.6% had nephritis; among patients with diseases of the respiratory system 44.0% had suffered from pneumonia; among with diseases of the digestive system 26.9% had liver problems, and among patients with diseases of the cardiovascular system 40.2% had suffered from arterial hypertension and 23.6 % had ischemic heart disease.

Nephritis dynamic has decreased steadily since 2006.

**Table 7.5.2 Inpatient Morbidity, by percentage, 2006-2015**

| Diseases classification        | Leading cause  | Percent of diseases group |       |      |      |      |      |      |      |      |      |
|--------------------------------|--|---------------------------|-------|------|------|------|------|------|------|------|------|
|                                |  | 2006                      | 2007  | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| Urogenital system diseases     | "Nephritis (N10-N16)"                                | 69.7                      | 67.8  | 69.1 | 66.6 | 68.3 | 67.4 | 67.1 | 66.1 | 64.1 | 63.6 |
| Respiratory system diseases    | Pneumonia (J12-J18)                                  | 38.6                      | 40.5  | 41.9 | 38.8 | 44.8 | 46.2 | 46.9 | 46.1 | 51.3 | 44   |
| Digestive system diseases      | Liver diseases (K70-K77)                             | 24.9                      | 25.1  | 25.6 | 25.7 | 25.2 | 26.1 | 26.6 | 27   | 27.8 | 26.9 |
|                                | Appendicitis (K35-K38)                               | 19.4                      | 18.6  | 17   | 16.9 | 16.7 | 15.4 | 14.6 | 14.1 | 13.5 | 13.1 |
|                                | "Diseases of gall bladder (K80-K81)"                 | 15.3                      | 13.97 | 13.7 | 14.2 | 13.8 | 14.2 | 14.3 | 14.6 | 13.6 | 13.2 |
| Cardiovascular system diseases | "Hypertension (I10-I15)"                             | 32.6                      | 32.1  | 33.2 | 34.4 | 36.6 | 36.8 | 37.7 | 37.6 | 38.5 | 40.2 |
|                                | "Ischemic heart disease (I20, I23-I25)"              | 26.3                      | 29.3  | 30.1 | 29.5 | 26.6 | 26   | 26.1 | 26.7 | 24.6 | 23.6 |
| Nervous system diseases        | "Disorders on neural radices and plexuses (G50-G59)" | 21.7                      | 22.1  | 24.3 | 26   | 26.7 | 28.8 | 30.9 | 33.8 | 27.7 | 34.8 |
|                                | Epilepsy (G40-G41)                                   | 12.5                      | 11.7  | 11.2 | 10.9 | 13.3 | 12.6 | 12.1 | 11.4 | 11.4 | 11.1 |

Pneumonia accounted for 38.6% of inpatient diseases of the respiratory system in 2006 but this percentage went down to 44.8% in 2010 and decreased in 2015 by 7.3% compared to 2014.

In 2006, liver disease for 24.9% and cholecystitis 15.3% percent of diseases of the digestive system. However, the percent of liver disease increased to 26.9% in 2015 and cholecystitis decreased for 13.2% of diseases of the digestive system.

Ischemic heart diseases accounted for 26.3% of diseases of the cardiovascular and circulatory system in 2006 and it became 23.6% in 2015.

## 7.6. SCREENING FOR NON-COMMUNICABLE DISEASES

In 2015, 362 325 people were involved screening for early noncommunicable diseases. From all populations, 65.1% was involved in early screening and when it compare to last year increased by 23.5 %. From all screened populations, 42.3% was male, and 57.7% was female. According to the body mass index , 4.3% had thin, 49.3% had normal, 32.5 % had fat, 13.9% had an obesity and it was more than 30 kilogram per square meter. 60.8 % of all screened cases were gathered by public health workers calling and 17.4 % arrived by themselves.

By early screening medical examinee result, 84.1% were normal, 15.9 % were arterial hypertension will be predicted and invited. Early screening total repeated medical examination get involved in 75845 people, from these people there were 12458 people, 3.5% arterial hypertension cases. But diabetes early screening medical examination were involved 335912 people, it was 60.3% of the total registered people.

By early screening medical examinee of diabetes, 96.8% were normal and remaining 3.2% cases had glucose changed and referred to second level hospitals

**Table 7.6.1. Percentage of screening coverage, by aimag, 2014-2015**

| Aimag, city            | Screening for arterial hypertension |             |                                  |            | Screening for diabetes type 2 |             |                                  |            |
|------------------------|-------------------------------------|-------------|----------------------------------|------------|-------------------------------|-------------|----------------------------------|------------|
|                        | Percentage of people screened       |             | Percentage of diagnosis verified |            | Percentage of people screened |             | Percentage of diagnosis verified |            |
|                        | 2014                                | 2015        | 2014                             | 2015       | 2014                          | 2015        | 2014                             | 2015       |
| Arkhangai              | 52.1                                | 54.7        | 5.2                              | 9.2        | 53.6                          | 55.5        | 0.2                              | 0.2        |
| Bayan-Ulgii            | 31.4                                | 38.6        | 23.6                             | 21.5       | 13.1                          | 29.5        | 6.2                              | 1.1        |
| Bayankhongor           | 62.6                                | 61.2        | 3.4                              | 2.3        | 50.9                          | 59          | 0.1                              | 0.0        |
| Bulgan                 | 51.8                                | 52.5        | 7.1                              | 1.5        | 52.2                          | 53.4        | 0.4                              | 0.1        |
| Govi-Altai             | 27.4                                | 28.8        | 1.2                              | 3.1        | 27.7                          | 28.1        | 0.1                              | 0.3        |
| Gobi-Sumber            | 15.2                                | 34.8        | 2.6                              | 1.8        | 8.4                           | 28.1        | 1.5                              | 0.2        |
| Darkhan-Uul            | 100                                 | 95.5        | 1.6                              | 0.8        | 100                           | 93.4        | 0.0                              | 0.3        |
| Dornogovi              | 72.3                                | 90.1        | 4.0                              | 2.2        | 72.3                          | 89.9        | 0.4                              | 0.2        |
| Dornod                 | 80.6                                | 83.6        | 5.8                              | 3.8        | 70.4                          | 76.7        | 0.4                              | 0.2        |
| Dundgovi               | 44.2                                | 59.4        | 6.2                              | 3.1        | 44.5                          | 60.6        | 0.6                              | 0.2        |
| Zavkhan                | 31.1                                | 41.2        | 7.3                              | 5.1        | 27.4                          | 36          | 0.4                              | 0.2        |
| Orkhon                 | 38                                  | 53.1        | 4.7                              | 2.1        | 24.8                          | 46.3        | 0.6                              | 0.2        |
| Uvurkhangai            | 65.4                                | 71.7        | 4.4                              | 3.2        | 65.6                          | 71.8        | 0.2                              | 0.2        |
| Umnugovi               | 66.8                                | 47.4        | 3.1                              | 4.5        | 67                            | 48.4        | 0.2                              | 0.3        |
| Sukhbaatar             | 88.6                                | 84.7        | 3.9                              | 1.9        | 88.8                          | 84.7        | 0.3                              | 0.1        |
| Selenge                | 13.3                                | 31.9        | 10.7                             | 6.6        | 12.4                          | 25.3        | 1.5                              | 0.7        |
| Tuv                    | 49.5                                | 80.9        | 2.2                              | 3.2        | 41.5                          | 74.4        | 0.3                              | 0.2        |
| Uvs                    | 40.1                                | 46.5        | 1.9                              | 3.7        | 39.6                          | 45.1        | 0.2                              | 0.3        |
| Khovd                  | 43                                  | 30.7        | 11.5                             | 8.0        | 37.8                          | 27.4        | 1.0                              | 0.7        |
| Khuvsgul               | 36.2                                | 56.2        | 5.0                              | 4.9        | 33.7                          | 55.2        | 0.0                              | 0.1        |
| Khentii                | 52.3                                | 58.8        | 2.1                              | 1.1        | 52.3                          | 58.8        | 0.3                              | 0.1        |
| <b>Aimag average</b>   | <b>51.6</b>                         | <b>58.6</b> | <b>4.8</b>                       | <b>4.0</b> | <b>47.3</b>                   | <b>55.8</b> | <b>0.4</b>                       | <b>0.2</b> |
| Ulaanbaatar            | 29.3                                | 79.9        | 4.8                              | 2.8        | 26.6                          | 70.6        | 0.8                              | 0.6        |
| <b>Country average</b> | <b>41.6</b>                         | <b>65.1</b> | <b>4.8</b>                       | <b>3.5</b> | <b>38</b>                     | <b>60.3</b> | <b>0.5</b>                       | <b>0.4</b> |

When considering enrollment rate of early screening examinations for Type 2 diabetes by gender then it demonstrated 31.4% of male population eligible for the inspection were covered by a screening examination and 38.8% of female population, respectively.

55002 people were covered by repeated examination for diabetes type 2, there were in 0.4% /1 298 people/ the diagnosis was verified.

### Cervical and breast cancer screening, 2015

From Mongolian Government and Ministry of health and sports launched Cancer prevention and monitoring sub action for 2008-2013. Regarding this actions goal implementing Cancer registration, early screening call system project and In Mongolia first time started early screening of cervical and breast cancer was conducted in 4 years.

In 2015, When analyzed on physical exams result of early screening for image and district level breast and cervical cancers, purposed age groups/30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60/ result shown as a total 72851 women were screened (38.8%). But comparing to invited people with these total people only 69.5% was screened. From these screened cases 13% (10296) result of Pap test positive, cervical biopsy test had a cell level changes. From this result had 78 cases, there were new cancer patients. Total biopsy test result showed 2.5% were cannot give the result, inadequate and these were repeated biopsy result. From these biopsy tests 14.1% were not made it yet, just waiting for getting in a lab so this is needed it to attention problem. Although second level gynecologist doctors clinical examinations plan were not enough scheduled and cervical endoscopy made it in 2449 cases, Loop Electrosurgical

Excision Procedure (LEEP) were made in 212 cases.

Breast cancers virtual screening provided 226304 women, from here 0.7% (1790) were diagnosed by during breast early screening clinical breast exam positive and palpated hard tuberosity and sources Also screening provided breast cancer high-risk group /before sicked and had a treatment, relatives had a breast cancer history / 536 people were included. Although breast clinical exam was positive cases were 1790, from these cases had 20 new cases and breast inflammation, pre-cancer diagnosis people were 865 and after they got treatment. In Regional diagnosis and treatment center and Ulaanbaatar city were provided early screening and 285 cases get in a mammogram in this year.

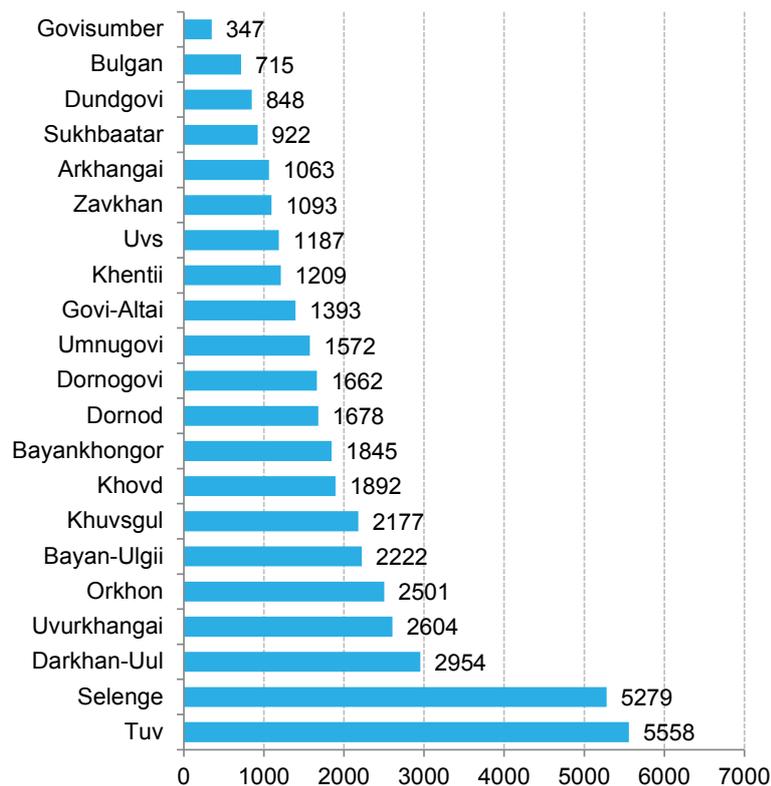
## 7.7. SURGICAL SERVICES

Out of 180693 people underwent surgical treatment, 77.5% were in Ulaanbaatar city and 22.5% were in rural hospitals. 18.2% or 32829 cases were paediatric surgeries, under 15 years old.

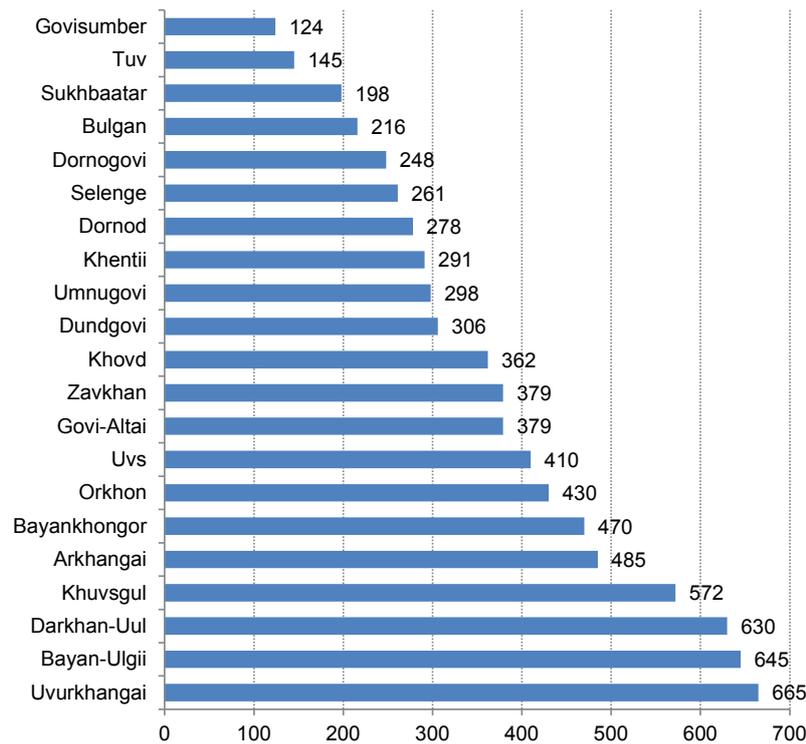
**Table 7.7.1. Number of surgeries performed in Ulaanbaatar hospitals, 2015**

| Operation  | Number of people operated |                                     | Out                |                | Postoperative complications |                                     | Mortality rate |                                     |
|--|---------------------------|-------------------------------------|--------------------|----------------|-----------------------------|-------------------------------------|----------------|-------------------------------------|
|  | Total number              | "Out: children up to the age of 15" | Endoscopic surgery | Repeat surgery | Total number                | "Out: children up to the age of 15" | Total number   | "Out: children up to the age of 15" |
| National Center for Mother and Child               | 14379                     | 7291                                | 235                | 0              | 34                          | 13                                  | 0              | 0                                   |
| State hospitals under Ulaanbaatar Health Authority | 88677                     | 16719                               | 205                | 110            | 43                          | 28                                  | 11             | 0                                   |
| I State Central Hospital                           | 10200                     | 33                                  | 1820               | 19             | 19                          | 0                                   | 32             | 0                                   |
| National Center of Traumatology and Orthopaedics   | 8174                      | 1697                                | 143                | 5              | 4                           | 0                                   | 147            | 18                                  |
| III State Central Hospital                         | 5867                      | 0                                   | 0                  | 16             | 20                          | 1                                   | 15             | 0                                   |
| Private hospitals under Ministry of Health         | 7749                      | 503                                 | 1110               | 106            | 13                          | 0                                   | 6              | 0                                   |
| II State Central Hospital                          | 2174                      | 0                                   | 907                | 16             | 25                          | 0                                   | 9              | 0                                   |
| National Cancer Centre                             | 2149                      | 10                                  | 96                 | 8              | 7                           | 0                                   | 28             | 0                                   |
| National infectious Diseases Center                | 553                       | 34                                  | 0                  | 41             | 0                           | 0                                   | 0              | 0                                   |
| <b>Total</b>                                       | <b>139922</b>             | <b>26287</b>                        | <b>4516</b>        | <b>321</b>     | <b>165</b>                  | <b>42</b>                           | <b>248</b>     | <b>18</b>                           |

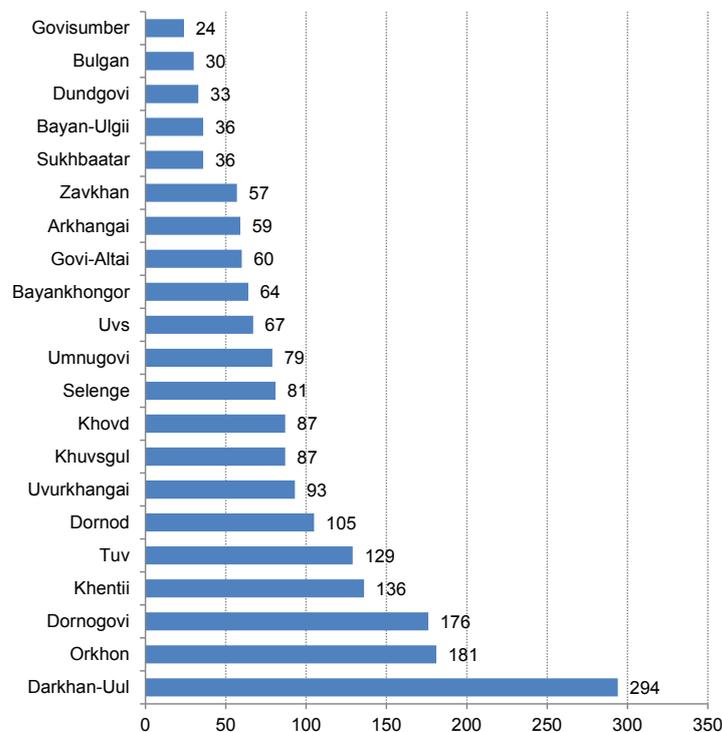
Laparascopy surgery were performed in 5003 patients, and 56.5% of them were patients with diseases of digestive system, 15.7% were patients with diseases of genito-urinary system, 9.4% were gynaecology patients and 18.4% were with other diseases.

**Figure 7.7.1. Number of surgery, by aimag, 2015****Table 7.7.2. Types of surgeries performed, 2015**

| Surgery  | Number of people operated |              | Endoscopic surgery | Repeat surgery | Postoperative operations |              | Mortality  |              |
|--|---------------------------|--------------|--------------------|----------------|--------------------------|--------------|------------|--------------|
|  | Number                    | Per-centage  |                    |                | Number                   | Per-centage  | Number     | Per-centage  |
| The nervous system performed surgical operations         | 2104                      | 1.2          | 17                 | 12             | 13                       | 6.0          | 101        | 35.8         |
| "Endocrine system made surgical operations"              | 475                       | 0.3          | 1                  | 0              | 0                        | 0.0          | 0          | 0.0          |
| Eyes made surgical operations                            | 6895                      | 3.8          | 0                  | 88             | 0                        | 0.0          | 0          | 0.0          |
| Ear surgery done to treat arthritis                      | 1472                      | 0.8          | 4                  | 4              | 0                        | 0.0          | 0          | 0.0          |
| Nose, mouth, pharynx performed surgical operations       | 78013                     | 43.2         | 210                | 80             | 42                       | 19.4         | 0          | 0.0          |
| Respiratory system performed surgical operations         | 838                       | 0.5          | 50                 | 8              | 4                        | 1.8          | 10         | 3.5          |
| Cardiovascular surgery done to treat arthritis           | 2170                      | 1.2          | 0                  | 2              | 4                        | 1.8          | 6          | 2.1          |
| Blood and lymphatic system performed surgical operations | 192                       | 0.1          | 0                  | 3              | 0                        | 0.0          | 2          | 0.7          |
| Digestive system performed surgical operations           | 28480                     | 15.8         | 2827               | 159            | 109                      | 50.2         | 114        | 40.4         |
| Urinary tract fallow                                     | 1939                      | 1.1          | 785                | 5              | 4                        | 1.8          | 5          | 1.8          |
| Male genital surgery done to treat arthritis             | 2389                      | 1.3          | 281                | 3              | 2                        | 0.9          | 1          | 0.4          |
| Penis pills made surgical operations                     | 19172                     | 10.6         | 470                | 5              | 16                       | 7.4          | 2          | 0.7          |
| Obstetric procedures                                     | 19802                     | 11.0         | 0                  | 37             | 16                       | 7.4          | 2          | 0.7          |
| Bone and muscle system performed surgical operations     | 11248                     | 6.2          | 353                | 21             | 5                        | 2.3          | 20         | 7.1          |
| In addition organ systems performed surgical operations  | 5504                      | 3.0          | 5                  | 2              | 2                        | 0.9          | 19         | 6.7          |
| <b>Total</b>   | <b>180693</b>             | <b>100.0</b> | <b>5003</b>        | <b>429</b>     | <b>217</b>               | <b>100.0</b> | <b>282</b> | <b>100.0</b> |

**Figure 7.7.2. Appendectomy due to acute cases, by aimags, 2015**

There were 12237 cases of appendectomy and 36.3% (4445) of them were performed in Ulaanbaatar city.

**Figure 7.7.3. Cholecystectomy by aimags, 2015**

Nationwide operations of biliary tract were 6879 cases, and 72.2 % /4965/ of them were performed in Ulaanbaatar city.



# CHAPTER 8

POPULATION  
MORTALITY

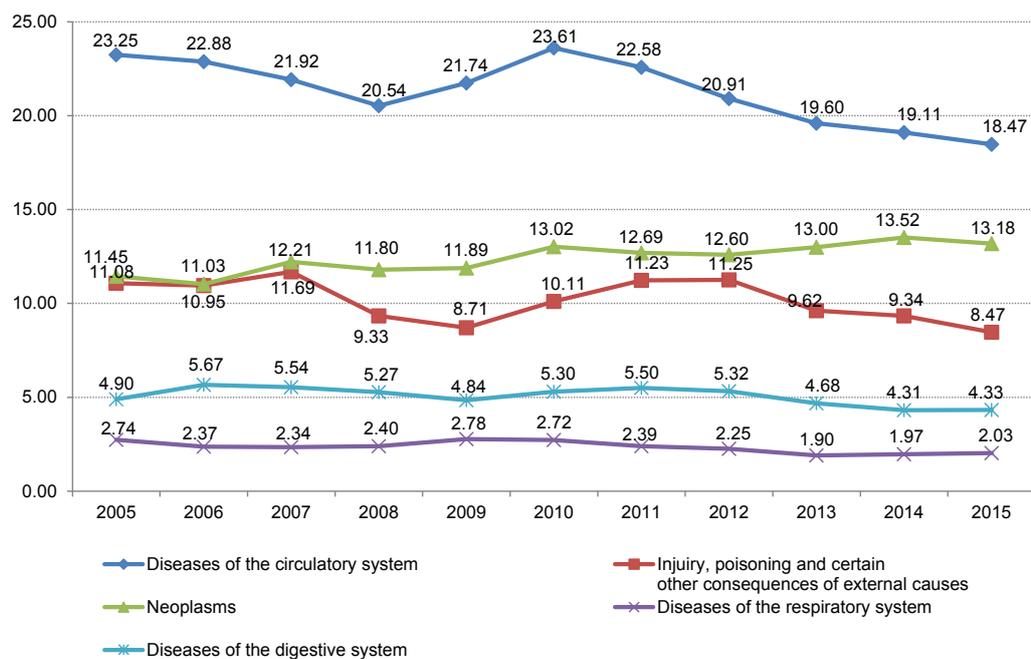
# CHAPTER 8

## POPULATION MORTALITY

Diseases of the circulatory system, cancer and injuries remain the 3 leading causes of population mortality since 1995 and the number of deaths due to these diseases has been increasing every year.

In 2015, 16 374 deaths were registered, which has decreased by 121 cases or 0.7%, compared to last year. 60.0% were males and 40.0% were females of total mortality.

**Figure 8.1.** Five leading causes of mortality per 10 000 population, 2015



The leading causes of mortality were as follows: diseases of circulatory system accounted for 34.1%, cancer accounted for 24.6%, injuries and poisonings accounted for 15.7%, diseases of digestive system accounted for 8.0%, and diseases of respiratory system accounted for 3.7% and all together accounted for 85.9% of the total deaths.

Considering the 5 leading causes of death in 2015, annual average of 5500-6000 people or one third of all death were due to diseases of the circulatory system, and over 3500 people or one in five were due to cancer, and over 2500 people or one in six were due to injuries and poisoning.

In 2015, the 5 leading causes of population morbidity per 10 000 population are the following:

- Diseases of the circulatory system - 18.47
- Neoplasms - 13.18
- Injuries and poisoning and certain other consequences of external causes - 8.47
- Diseases of the digestive system - 4.33
- Diseases of the respiratory system - 2.03

The population mortality rate is 66.14 per 10,000 in males and 42.49 per 10 000 in females, which is 1.5 times higher in females. 7.5% of total deaths occurred in infants, 9.0% in children under-five and 1.3% in children of 5-14 years old.

**Table 8.1. Five leading causes of mortality, 2015**

|                        | Total morbidity | Diseases of circulatory system | Neoplasms    | Injuries, poisoning and certain other consequences of external causes | Diseases of digestive system | Diseases of respiratory system |
|------------------------|-----------------|--------------------------------|--------------|---|------------------------------|--------------------------------|
| <b>Sex</b>             |                 |                                |              |   |                              |                                |
| Males                  | 66.14           | 21.66                          | 14.81        | 13.94   | 4.59                         | 2.48                           |
| Females                | 42.49           | 15.40                          | 11.60        | 3.20  | 4.09                         | 1.58                           |
| <b>Age group</b>       |                 |                                |              |   |                              |                                |
| Under 20 years old     | 16.69           | 0.32                           | 0.38         | 3.75  | 0.49                         | 1.94                           |
| 20-44                  | 21.86           | 3.77                           | 2.40         | 10.45   | 2.02                         | 0.48                           |
| 45-65                  | 112.73          | 40.14                          | 36.18        | 14.68   | 10.81                        | 2.26                           |
| Over 65 years old      | 528.63          | 266.05                         | 158.22       | 9.12  | 39.88                        | 19.12                          |
| <b>Location</b>        |                 |                                |              |   |                              |                                |
| Urban                  | 53.70           | 15.74                          | 12.63        | 9.89  | 4.83                         | 2.03                           |
| Rural                  | 54.40           | 20.76                          | 13.63        | 7.27  | 3.92                         | 2.02                           |
| <b>Regions</b>         |                 |                                |              |   |                              |                                |
| Western                | 53.06           | 20.58                          | 14.25        | 5.37  | 2.99                         | 2.25                           |
| Khangai                | 58.40           | 22.70                          | 13.55        | 8.02  | 3.79                         | 2.04                           |
| Central                | 52.77           | 18.82                          | 13.46        | 8.21  | 4.25                         | 1.56                           |
| Eastern                | 54.57           | 18.16                          | 14.53        | 6.97  | 5.27                         | 2.57                           |
| <b>Country average</b> | <b>54.10</b>    | <b>18.47</b>                   | <b>13.18</b> | <b>8.47</b>   | <b>4.33</b>                  | <b>2.03</b>                    |

## 8.1. MORTALITY CAUSED BY DISEASES OF CIRCULATORY SYSTEM

Each year due to diseases of the circulatory system 5500-6000 people, or 1 out of 3 of the population died, which remains the leading cause of death.

In 2015, diseases of circulatory system were 21.66 per 10 000 in males and 15.40 per 10 000 in females . The cardiovascular mortality rate was highest in Khangai and Western regions, and lowest in the Eastern aimags.

The main causes of mortality compared by gender; age group and sex are: ischemic heart disease was 25.1, stroke was 21.7, arterial hypertension was 2.0 per 10 000 population in males aged 45-64. Ischemic heart diseases is 3.7 times higher, stroke is 1.9 times higher, arterial hypertension is 1.0 times higher in men when compared to the women of the same agegroup. (Table 8.1.1).

The stroke was the leading cause of mortality among Mongolian men in 2015 and it was decreased by 0.26 cases per 10 000 population compared to last years. I

Until 2003, mortality rates of ischemic heart disease and stroke were in close proximity but starting from 2012, stroke mortality rate seems to be getting higher.

**Table 8.1.1. Cause-specific cardiovascular disease mortality rate by age-group per 10 000 population**

|                        | Diseases of circulatory system | Stroke      | Arterial hypertension | Ischemic heart diseases |
|------------------------|--------------------------------|-------------|-----------------------|-------------------------|
| <b>Total mortality</b> | <b>18.47</b>                   | <b>5.61</b> | <b>0.85</b>           | <b>8.50</b>             |
| Under 20 years old     | 0.32                           | 0.08        | 0.00                  | 0.05                    |
| 20-44                  | 3.77                           | 1.50        | 0.13                  | 1.45                    |
| 45-64                  | 40.14                          | 16.07       | 1.52                  | 15.34                   |
| Over 65 years old      | 266.05                         | 60.04       | 14.16                 | 140.24                  |
| <b>Male</b>            | <b>21.66</b>                   | <b>6.50</b> | <b>0.87</b>           | <b>10.34</b>            |
| Under 20 years old     | 0.36                           | 0.09        | 0.00                  | 0.09                    |
| 20-44                  | 5.50                           | 1.98        | 0.21                  | 2.28                    |
| 45-64                  | 59.00                          | 21.69       | 2.00                  | 25.10                   |
| Over 65 years old      | 320.68                         | 69.98       | 14.82                 | 172.22                  |
| <b>Female</b>          | <b>15.40</b>                   | <b>4.88</b> | <b>0.84</b>           | <b>6.92</b>             |
| Under 20 years old     | 0.27                           | 0.07        | 0.00                  | 0.02                    |
| 20-44                  | 2.05                           | 1.02        | 0.05                  | 0.63                    |
| 45-64                  | 23.72                          | 11.18       | 1.11                  | 6.85                    |
| Over 65 years old      | 229.85                         | 53.45       | 13.72                 | 119.04                  |

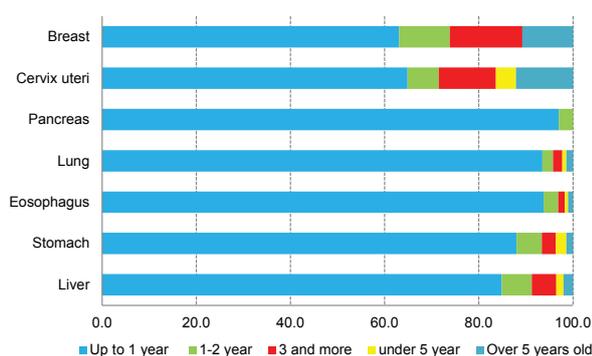
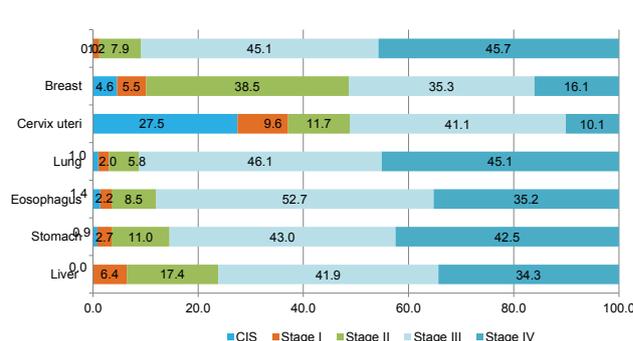
## 8.2. CANCER MORTALITY

Since 1990, cancer remains the second leading cause of population mortality in Mongolia.

In 2015, cancer related deaths accounted for 24.4% of the all deaths and was 14.81 per 10 000 in males and 11.60 per 10 000 in females.

The leading 5 causes of cancer in males in Mongolia are liver, stomach, lung, esophagus, and pancreatic. The leading 5 cause of cancer in females is liver, stomach, cervix, esophagus, and liver.

In 2015, 75.6% of the population diagnosed their cancer during the late stages (III and IV) of the disease, and 85.2% of cancer cases survived for less than a year after the diagnosis.

**Figure 8.2.1. Leading causes of cancer mortality by survival years after the diagnosis, 2015****Figure 8.2.2. Leading causes of cancer morbidity by the stage diagnosis, 2015**

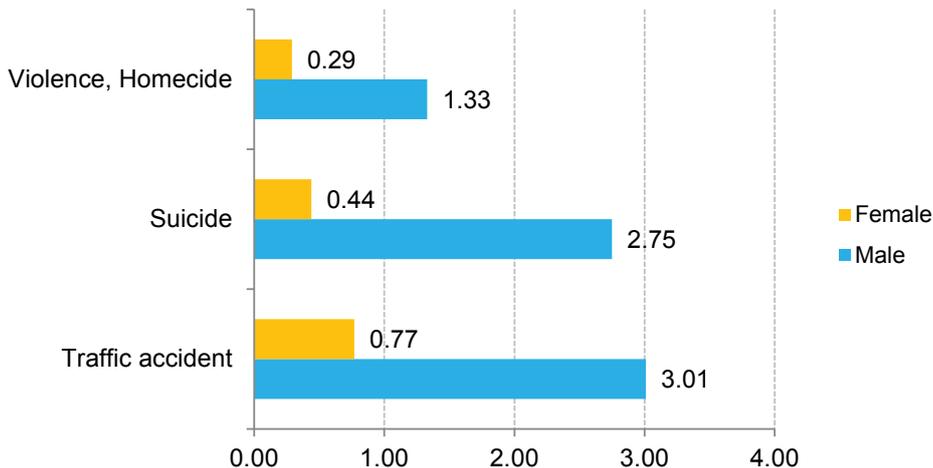
## 8.3 MORTALITY DUE TO INJURIES AND POISONING AND CERTAIN OTHER

Mortality due to injuries and poisoning and certain other has increased sharply within the last few years. It was ranked as the fifth leading cause of population mortality in 1990 and has been ranked third since 2000.

Moreover, mortality rate due to injuries and poisoning and certain other per 10 000 population was 6.0 in 1995, 7.6 in 2000 and 11.7 in 2007, 8.47 in 2015 decreased by 1.6.

In 2015, 2563 deaths of injuries and poisoning were registered and per 10 000 population 8.47. 80.8% were males and 19.2% were females, in other words, 13.94 of deaths per 10 000 men and this is 4.3 higher compared in women.

Figure 8.3.1. Injury-caused mortality rate per 10 000 population, 2015

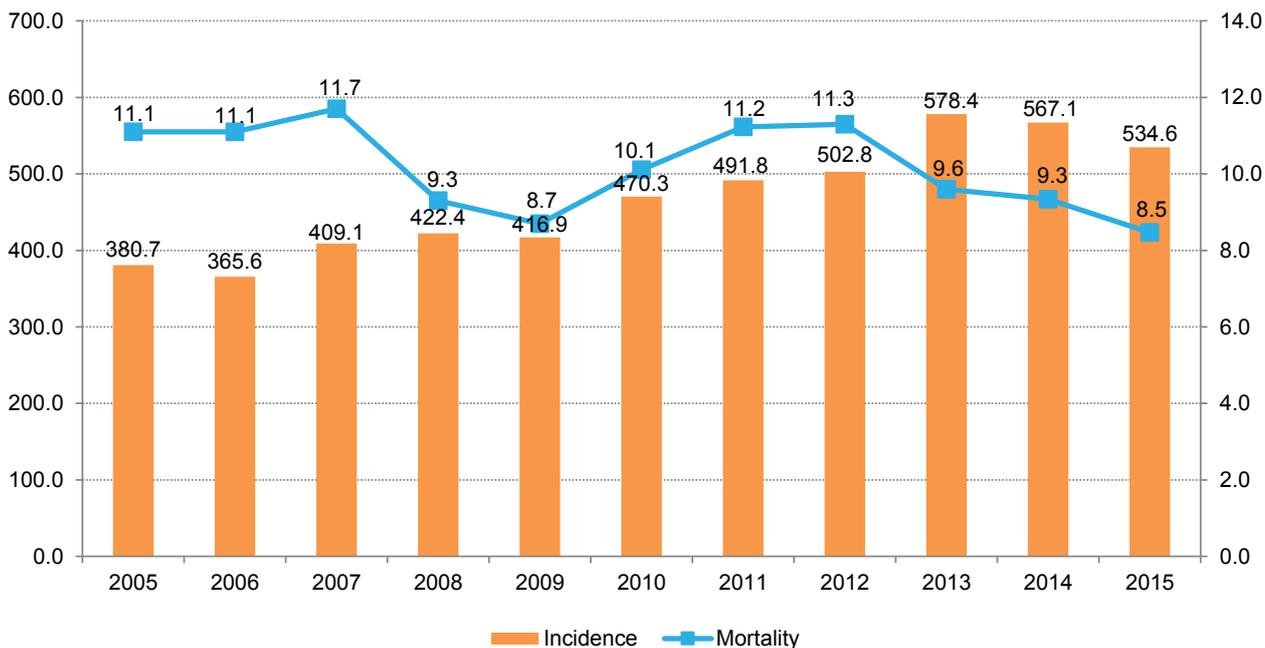


Deaths due to traffic accident were 22.0%, suicide was 18.7%, and homicide was 9.4% and 49.9% were mortalities caused by other accidents.

The number of deaths from traffic accidents decrease by 114 cases, than previous year.

In comparison with women, per 10 000 persons, suicide rates are 5.7 times higher for men, violence and homicide rates are higher by 4.5 times, and traffic accident rates are higher by 3.8 times.

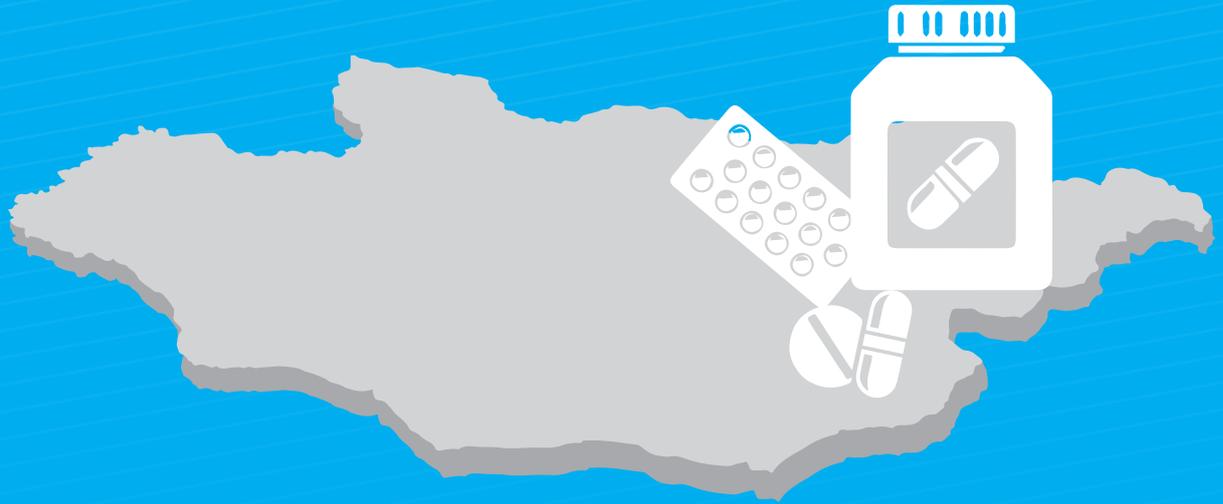
Figure 8.3.2. Injury-caused morbidity and mortality per 10 000 population, 2005-2015



**Table 8.3.1 Mortality projection of the world population, 2015**

| "2030<br>Disease or injure"            | "Deaths<br>(%)" | Rank | Rank | "Deaths<br>(%)" | "2015<br>Disease or injure"            |
|--|-----------------|------|------|-----------------|--|
| Isheamic heart diseases                | 14.2            | 1    | 1    | 15.7            | Isheamic heart diseases                |
| Cerebrovascular diseases               | 12.1            | 2    | 2    | 11.0            | Cerebrovascular diseases               |
| Chronic obstructive pulmonary diseases | 8.6             | 3    | 3    |                 | Lower respirature infections           |
| Lower respirature infections           | 3.8             | 4    | 4    | 3.8             | Chronic obstructive pulmonary diseases |
| Road traffic accidents                 | 3.6             | 5    | 5    | 3.5             | Diarrhoeal diseases                    |
| Trachea, bronchus, lung cancers        | 3.4             | 6    | 6    | 3.1             | HIV/AIDS                               |
| Diabetes mellitus                      | 3.3             | 7    | 7    | 2.9             | Tuberculosis                           |
| Hypertensive heart diseases            | 2.1             | 8    | 8    | 2.2             | Trachea, bronchus, lung cancers        |
| Stomach cancer                         | 1.9             | 9    | 9    | 1.9             | Road traffic accidents                 |
| HIV/AIDS                               | 1.8             | 10   | 10   | 1.6             | Prenataliy and low birth weight        |
| Nephritic and nephross                 | 1.6             | 11   | 11   | 1.6             | Neonatal infections and other          |
| Self-inficted injures                  | 1.5             | 12   | 12   | 1.6             | Diabetes mellitus                      |
| Liver cancer                           | 1.4             | 13   | 13   | 1.6             | Malaria                                |
| Colon and rectum cancers               | 1.4             | 14   | 14   | 1.5             | Hypertensive heart diseases            |
| Oesophagus cancer                      | 1.3             | 15   | 15   | 1.2             | Birth asphydia and birth trauma        |
| Violence                               | 1.2             | 16   | 16   | 0.7             | Self-inficted injures                  |
|  | 1.2             | 17   | 17   | 0.7             | Stomach cancer                         |
| Cirrhosis of the liver                 | 1.2             | 18   | 18   | 0.6             | Cirrhosis of the liver                 |
| Breast cancer                          | 1.1             | 19   | 19   | 0.4             | Nephritic and nephross                 |
| Tuberculosis                           | 1               | 20   | 20   | 0.3             | Colon and rectum cancers               |
| Neonatal infections and other          | 0.9             | 21   | 21   | 0.2             | Violence                               |
| Prenataliy and low birth weight        | 0.9             | 22   | 22   | 0.0             | Breast cancer                          |
| Birth asphydia and birth trauma        | 0.7             | 23   | 23   | 0.0             | Oesophagus cancer                      |
| Malaria                                | 0.4             | 24   | 24   | 0.0             | Malaria                                |

Comparison on mortality rates in Mongolia with projections of mortality rates of the world population in 2030 shows that in 2030 leading causes of mortality in the world would be ischemic heart disease, cerebrovascular diseases, chronic asthma whereas in Mongolia leading causes of death in 2015 were ischemic heart disease, cerebrovascular diseases, and liver cirrhosis. Especially, liver cirrhosis is the third cause of death in our country.



# CHAPTER 9

STATE DRUG  
REGISTRY

# CHAPTER 9

## STATE DRUG REGISTRY

### 9.1. WHOLESALE DRUG SUPPLIER INDICATORS

As of 2015, out of 306 hospital pharmacies and 1300 private pharmacies, 327 at primary level and 973 at secondary level were counted in Mongolia.

According to the Social Insurance National Council's Resolution No.08 dated 25 March 2016, "About Approval of List", 145 generic and 28 multiple ingredient essential drugs are partly reimbursed (40-83.3% cost of price) through health insurance.

In 2015, majority of subsidized cost, out of 48402339 drugs of 16,056 billion MNT for 2273451 people /double counted/ reimbursed by Social Health Insurance (SHI) was spent on cardiovascular drugs, supplements, vitamins, minerals and gastrointestinal drugs.

### 9.2. PHARMACEUTICAL IMPORT

According to the Mongolian Government's Resolution No.73 dated 9 March 2011, all pharmaceuticals and medical devices are imported through 4 ports – Buyant-Ukhaa, Sukhbaatar, Altanbulag and Zamiin Uud. In 2015, total of 4330 licenses for wholesale suppliers of pharmaceuticals, medical devices, reagents and diagnostics and total of 107 licenses for special products under the control of Mongolian Government were given.

**Drugs:** Amount of 182.86 billion MNT drugs were imported and amount of 164.94 billion MNT drugs /by wholesale price/ were sold which are decreased by 30.58 billion MNT in imports and by 16.21 billion MNT in sales respectively, when comparing to year 2014.

**Raw Materials:** Amount of 3.04 billion MNT raw materials were imported and amount of 37.7 billion MNT raw materials were sold which are increased by 0.33 billion MNT in imports and by 0.17 billion MNT in sales respectively, when comparing to the previous year.

**Medical Devices:** Amount of 44.5 billion MNT medical devices was imported and amount of 37.9 billion MNT medical devices was sold which are decreased by 12.42 billion MNT in imports and by 13.17 billion MNT in sales respectively, when comparing to year 2014.

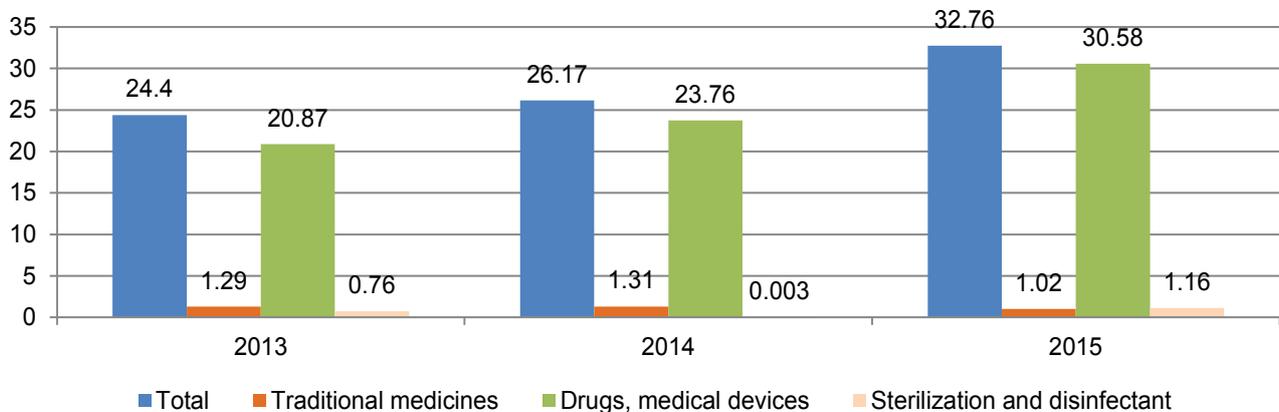
**Reagents and Diagnostics:** Amount of 18.19 billion MNT reagents and diagnostics was imported and amount of 16.25 billion MNT reagents and diagnostics was sold which are decreased by 9.15 billion MNT in imports and by 8.34 billion MNT in sales respectively, when comparing to year 2014.

**Donations:** 4.75 billion MNT drugs in 2013, 6.21 billion MNT drugs in 2014 and 6.36 billion MNT drugs in 2015 were imported. In 2015, volume of donated import is increased by 0.18 billion MNT.

### 9.3. PHARMACEUTICAL MANUFACTURING

Domestic pharmaceutical production has been increased over the last 3 years.

**Figure 9.3.1.** Domestic pharmaceutical manufacturing, by billion MNT /2013-2015/



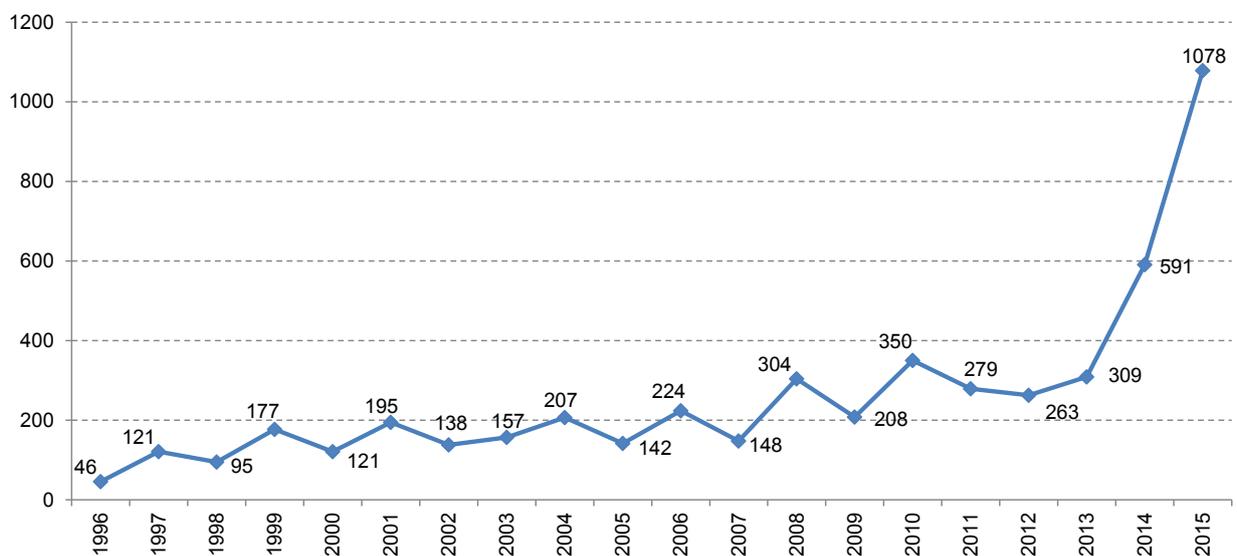
In 2015, out of 1064 different type of pharmaceuticals, 425 European pharmaceuticals and medical devices /40% of total/, 605 traditional drugs /57%/ and 34 sterilizers and disinfectants /3%/ were produced.

### 9.4. DRUG REGISTRATION

Drug registration is regulated by the Law of Pharmaceuticals and Medical Devices and the Order No.13, “The Registration Rule of Pharmaceuticals and Biologically Active Products”, approved by Minister of Health and Sports in 2015.

Drug registration has been started in Mongolia since 1992 and 4688 drugs of 527 manufacturers from 56 countries are currently registered. In which imported drugs take 76.7% while domestic products take 23.3%.

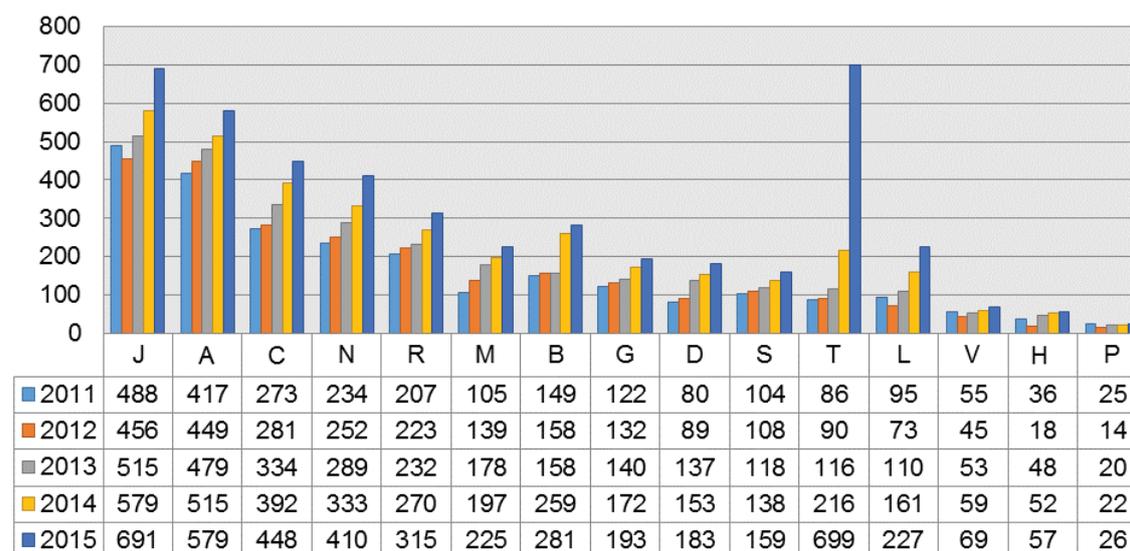
**Figure 9.4.1.** Number of newly registered drugs in Mongolia, by year



In 2015, 1078 new drugs were registered, registration of 240 drugs and 5 raw materials were extended, 185 registered drugs were amended and 15 drugs were extracted from the registration. Hence 351 imported drugs, 532 traditional medicines, 195 domestically produced drugs and 30 raw materials were newly registered. In 2015, 107 diagnostics of 8 manufacturers from 6 countries were registered

**All registered drugs shown as ATC classification in Mongolia, as follows:**

**Figure 9.4.2. Registered drugs in Mongolia, by ATC classification /2011-2015/**



Most registered drugs in Mongolia are disinfectants /15.14%/, traditional medicines /15.32%/, gastrointestinal drugs /12.70%/, and cardiovascular drugs /9.80%/,

## 9.5. DRUG SAFETY

Registration of drug side effects is regulated by the Order No.415, "Registration Rule of Drug Side Effects and Safety", approved by Minister of Health in 2013. In 2015, 68 new cases of drug side effects were registered and total of 595 cases are currently registered in the database.

**Table 9.5.1 Number of drug side effects and reported hospitals**

| Indicator                               |  | 2012 | 2013 | 2014 | 2015 |
|---|--|------|------|------|------|
| Hospitals and pharmacies in Ulaanbaatar | Number of reported health organization | 8    | 14   | 11   | 5    |
|   | Number of side effects                 | 57   | 111  | 98   | 44   |
| Hospitals and pharmacies in rural areas | Number of reported health organization | 2    | 7    | 7    | 8    |
|   | Number of side effects                 | 8    | 66   | 60   | 24   |
| Total                                   | Number of reported health organization | 10   | 21   | 18   | 13   |
|   | Number of side effects                 | 65   | 177  | 158  | 68   |

## 9.6. CHOICE OF DRUGS AND RATIONAL USE

According to provision 24 of article 24.2, of the law of Government of Mongolia and provision 4 of article 4.5, of the law of “Pharmaceuticals and Medical Devices”, manufacturing 180 types of drugs listed on the 7th category of the Essential Drug List, approved by the Order No.215, “Approval of Amended List”, of Minister of Health, in order to increase drug supply and accessibility and comply with rationale use of drugs, is 17%.

In 2015, 30 wholesalers imported 7760914 /duplicated number/ boxes of antibiotics of 378 different types of 87 manufacturers from 55 countries.

In 2015, the Pharmacological Committee under the Human Pharmaceutical Council approved the instructions of 656 types of drugs /502 imported drugs and 154 domestic products/ and allowed the permission for 52 advertisement of pharmaceuticals and medical devices.

In 2015, Center for Health Development organized 7 short term training courses for 694 medical professionals.

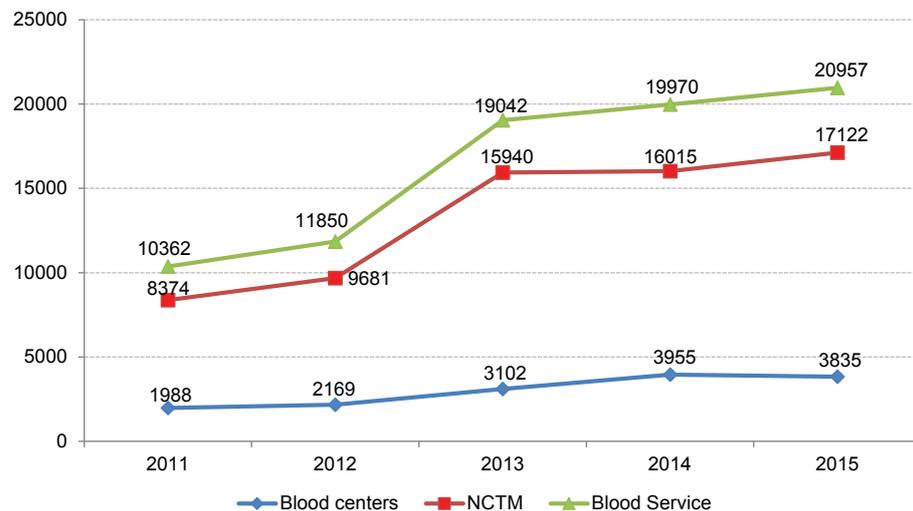
# БҮЛЭГ 10

## RESULTS OF BLOOD SERVICE ACTIVITIES

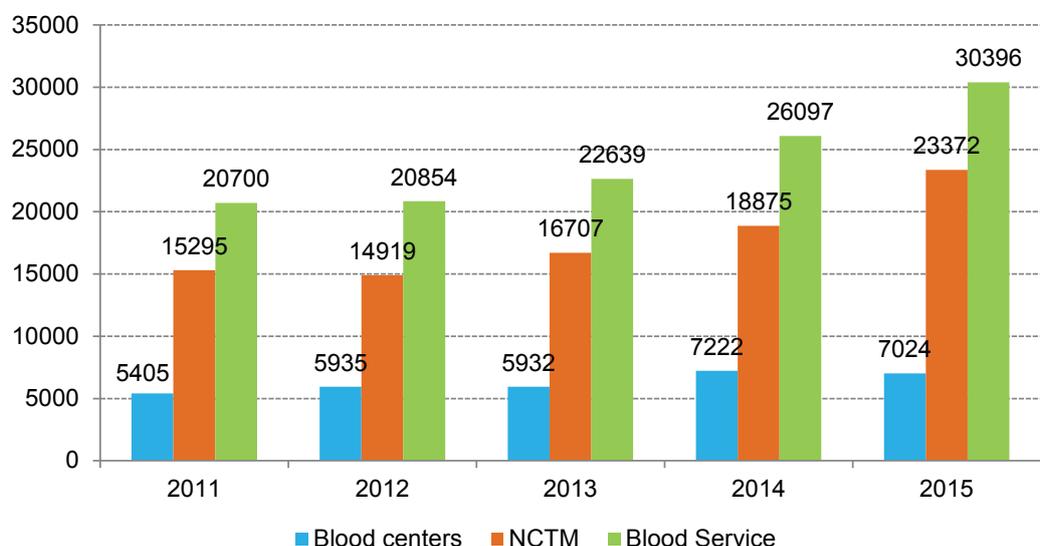
In 2015, Blood Service of Mongolia worked, all activities under the theme of "Among all donors to improve to increase the percentage of regular blood donor and to improve blood safety." and supplied hospitals with blood and blood products nationwide.

The number of regular blood donor was 10436 in 2011, to increased by 41.4 percent. In 2015, the regular blood donor became 14755.

**Figure 10.1.** The number of new blood donors /2011-2015 years/

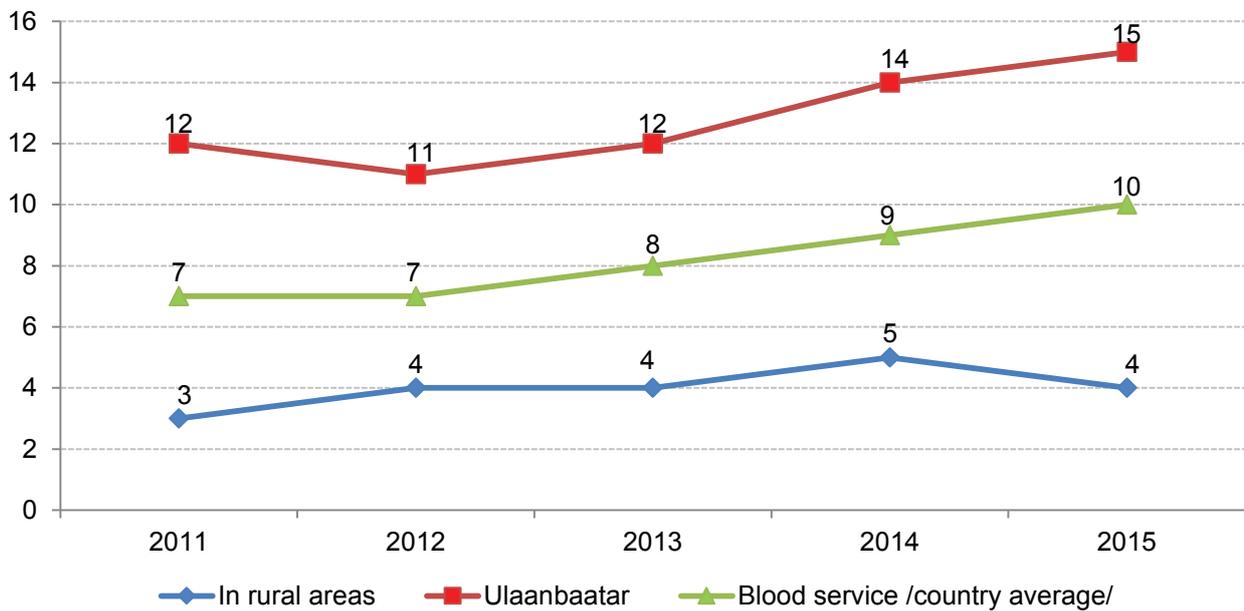


**Figure 10.2.** The number of blood donating /2011-2015 year/



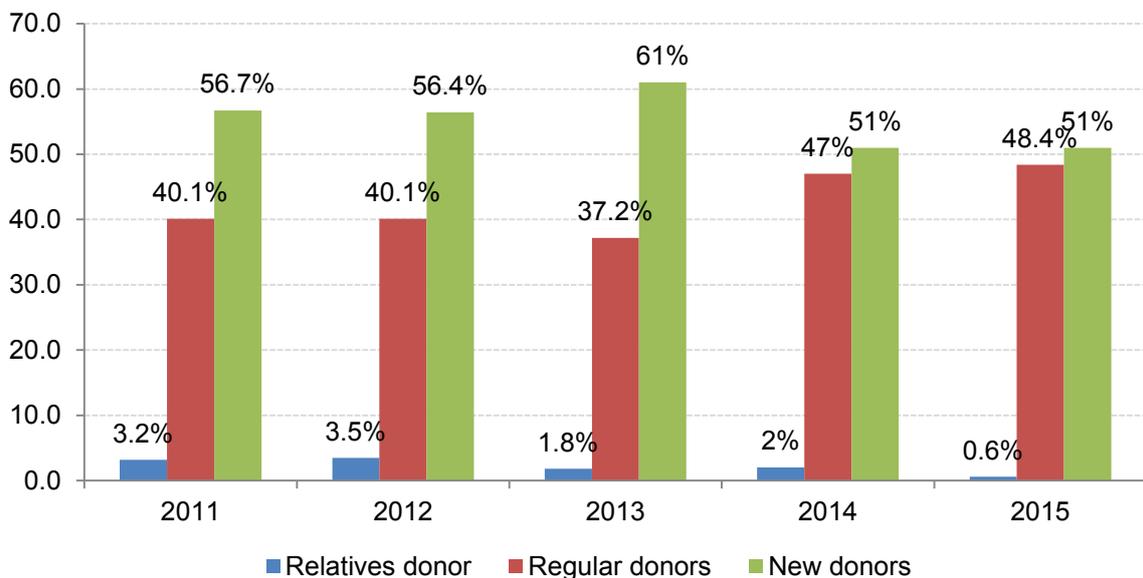
In 2015 the number of blood donating became 30 396, increased by 46.8 percent, 20 700 for 2011.

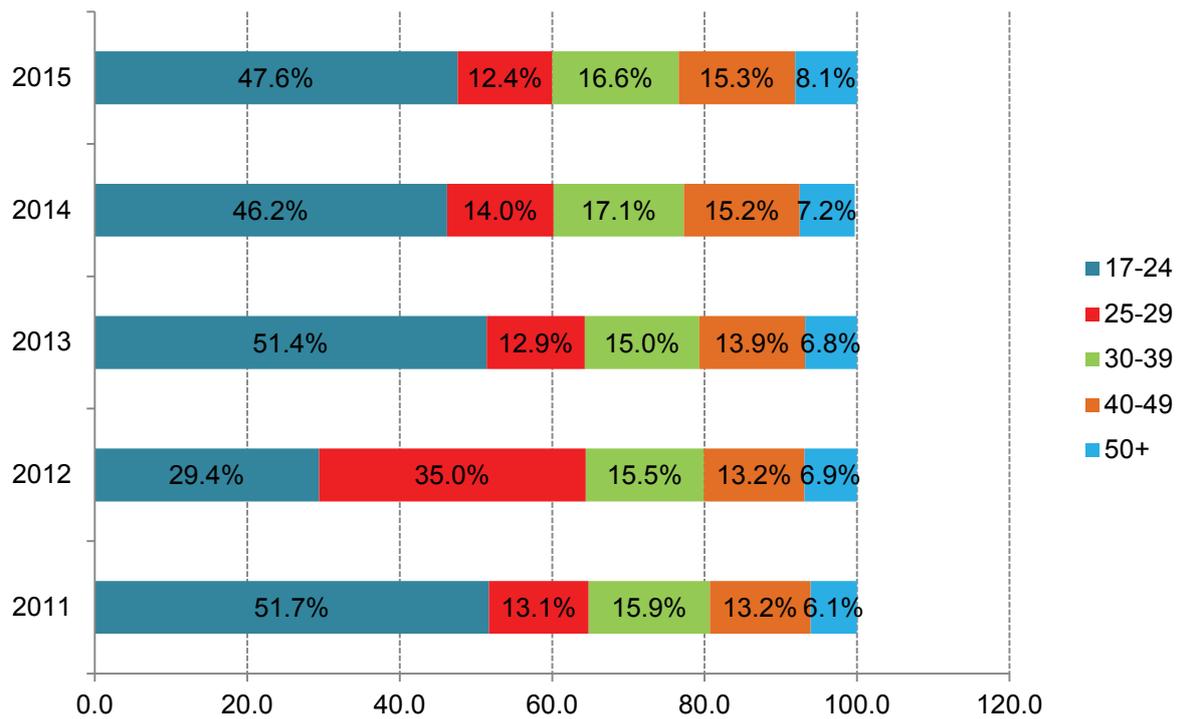
**Figure 10.3.** The number of blood donating per 1000 population, 2011-2015



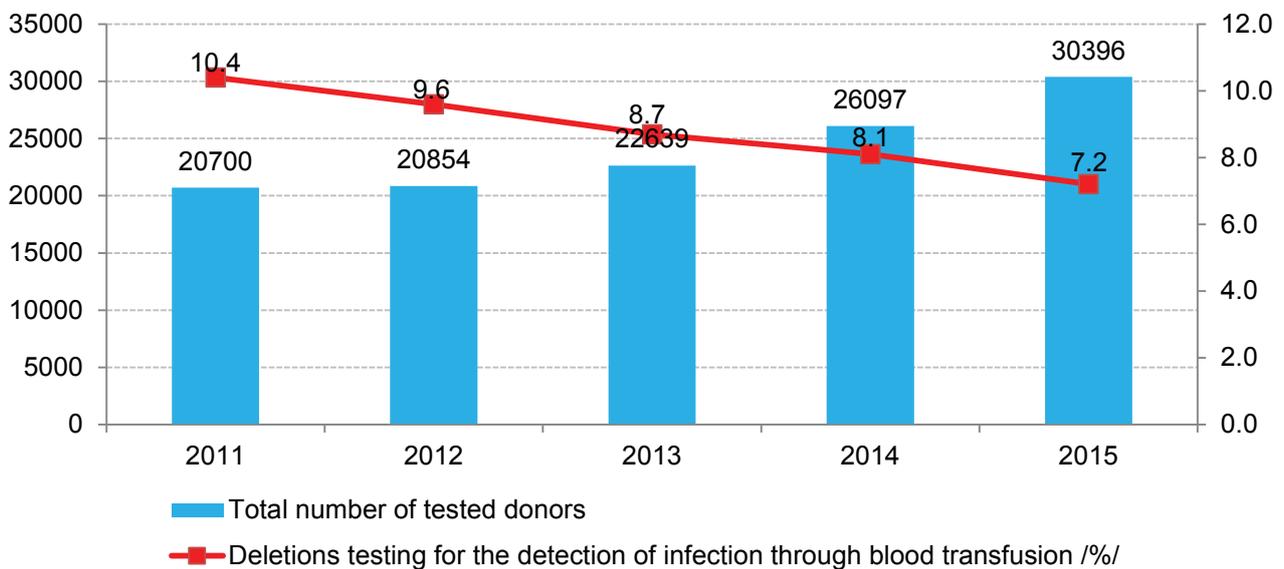
In 2015 urban the number of blood donating for urban 15 and for rural 4 per 1000 population and it seems the indication increased from the years before.

**Figure 10.4.** The type of blood donating to blood service /by percent/

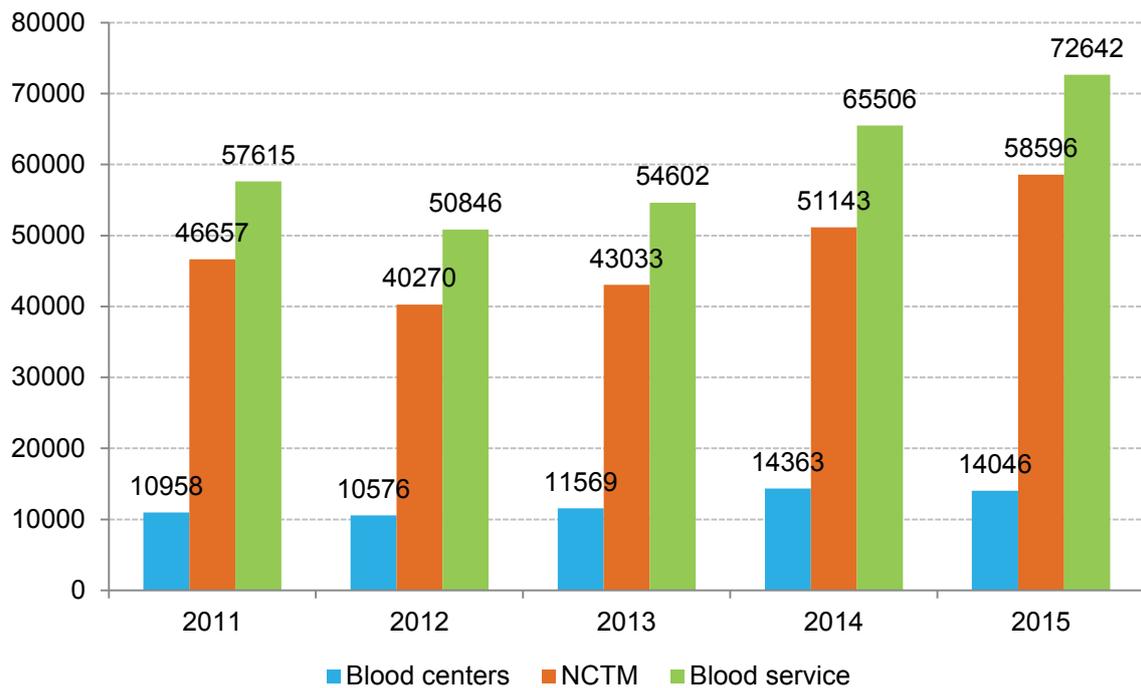


**Figure 10.5.** The number of blood donating /2011-2015/

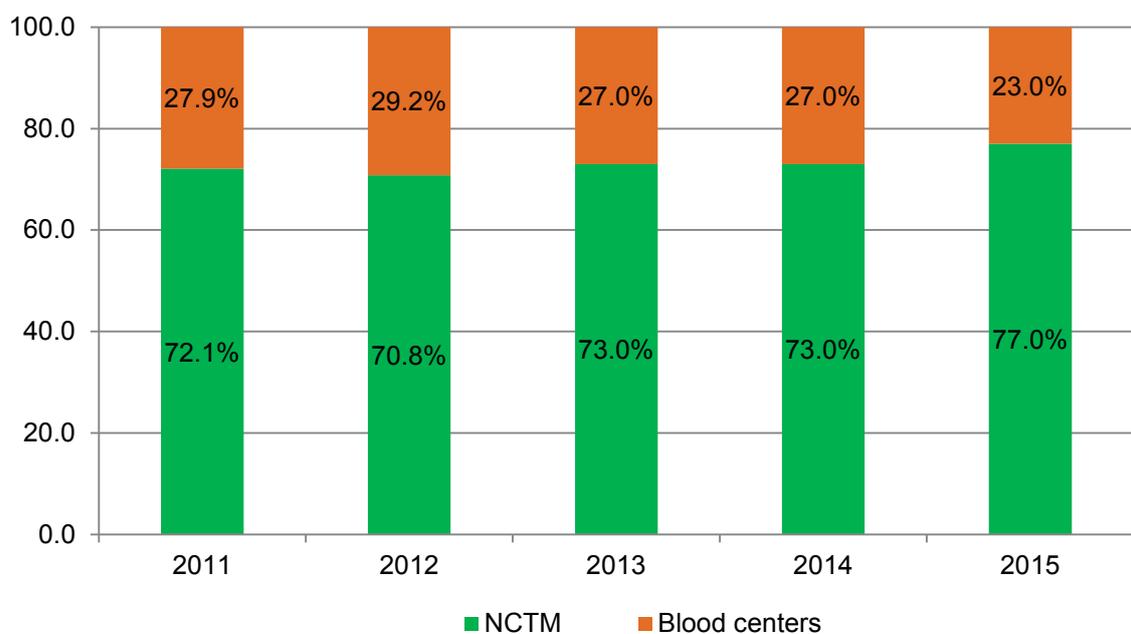
In 2015, percent of donars /47.6/ decreased by 4.1, 2011 year 51.7 percent. The number of donars with age group of 30-39, 40-49, 50+ increased from the previous year.

**Figure 10.6.** Donors who transfused their blood /2011-2015/

Recent years, Training and advertising of blood donating over the population. Result of this activity, deletions testing for the detection of infection through blood transfusion is decreased by 3.2%, with positive estimation 7.2% for 2015 and 10.4% for 2011.

**Figure 10.7.** Production of blood and blood products /by units 2011-2015 years/

Production of blood and blood products reached up to 72 642 units, increased by 10.9 percent from the previous year.

**Figure 10.8.** Production of blood and blood products in NCTM and in branch Blood centers /by percentage, 2011-2015 years/



# CHAPTER 11

HEALTH  
ECONOMICS

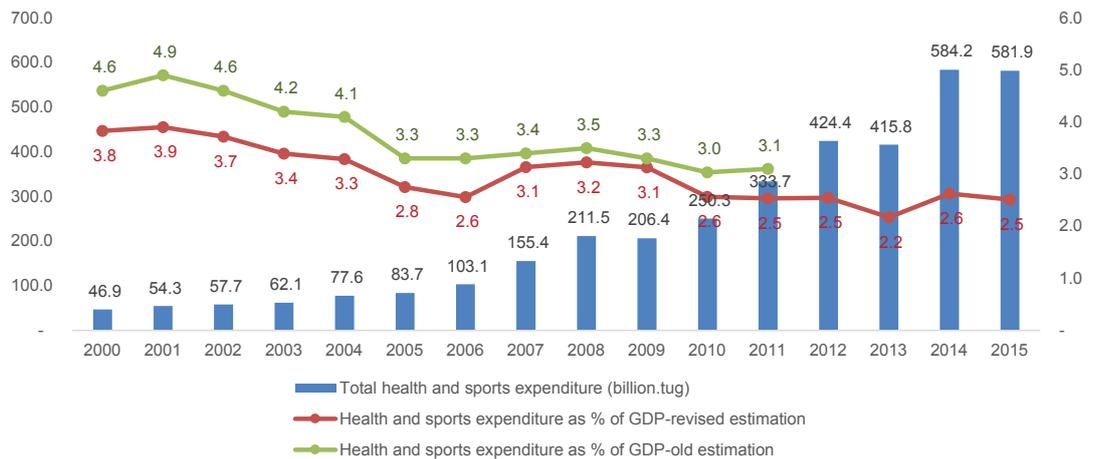
# CHAPTER 11

## HEALTH ECONOMICS

This chapter is calculated on the budget performance report of Health and Sports and the revenues and expenditures of Health Insurance Fund.

### 11.1. BUDGET PERFORMANCE OF HEALTH AND SPORTS SECTOR

**Figure 11.1.1** Expenditure of Health and Sports sector as share of GDP



Source: Division of finance, MOHS

The National Registration and Statistics Office has amended total of 3 times in 2006, 2010 and 2014 for the estimation of GDP and revised the method of estimating GDP and Gross National Income in 2007 and 2013, total of 5 times amendments.

The GDP was increased according to estimation of the revised methodology and the amended calculation of Gross National Income and Gross Domestic Product.

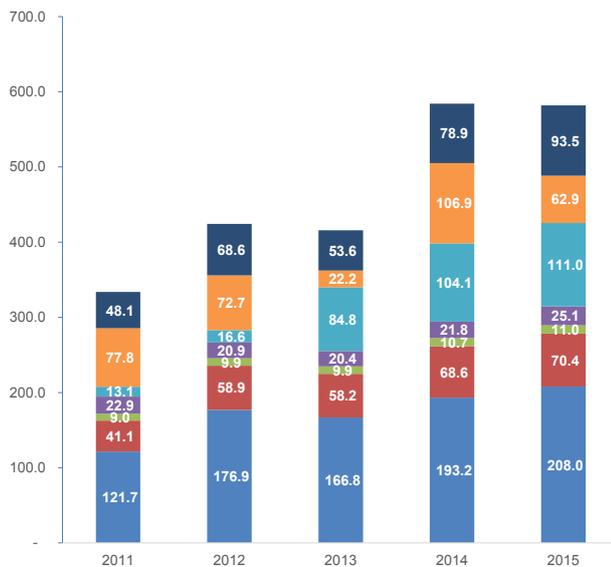
The share of Health and Sports sector expenditure to the revised estimation of GDP has been declined comparing to the previous estimation.

In other words, percentage of Health and Sports sector's expenditure to the revised estimation of GDP has been decreased by 0.2-1.0%, compared to the previous estimation.

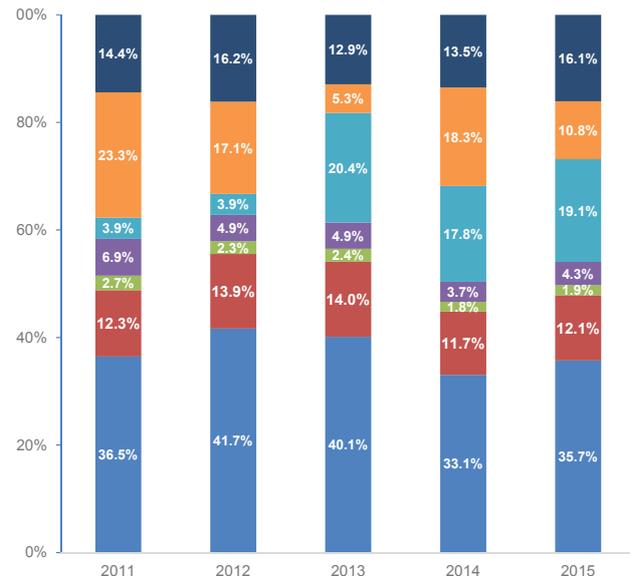
However the expenditure of Health Sports sector has been increased by amount, the share of GDP is relatively stable or 2.5-2.6% in past 6 years, except 2013.

Decrease in the share of health and sports sector's expenditure to GDP in 2013 was conditioned due to Sport's sector, it was depended a part in sports is subordination within a Minister of culture, sport and tourism.

**Figure 11.1.2.A. Total health and sports expenditure by line items (billion MNT)**



**Figure 11.1.2.B. Total health and sports expenditure by line items (percentage)**



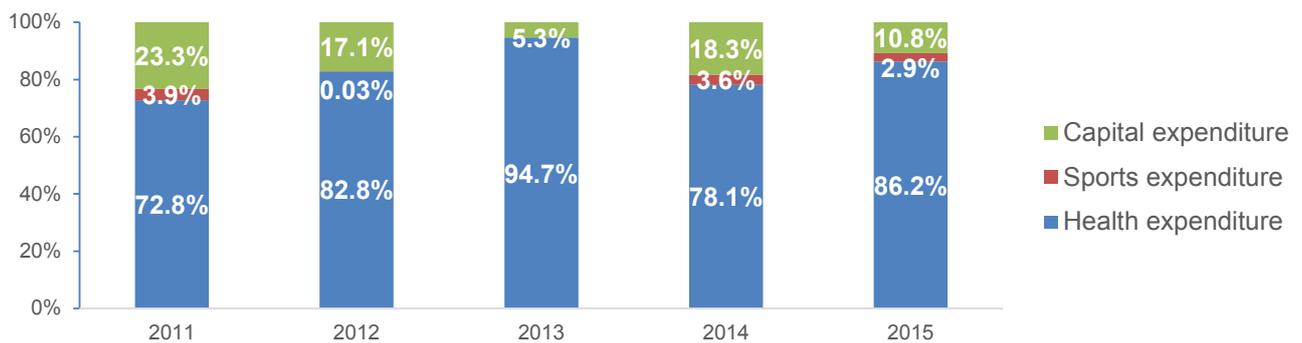
- Wages and salaries, bonuses
- Meal
- Government domestic transfer
- Other expenses
- Medicines
- Fixed expenses related to office building
- Capital expenses

Source: Division of finance, MOHS

In the past 5 years, the expenditure except capital expenditure has been increased year by year in terms of money amount according to the economic category of Health and Sports sector's expenditure. The capital expenditure is decreased by 3.3 times in 2013, compared to the previous year, increased by 4.8 times in 2014, compared to 2013 and decreased by 1.7 times in 2015, compared to 2014.

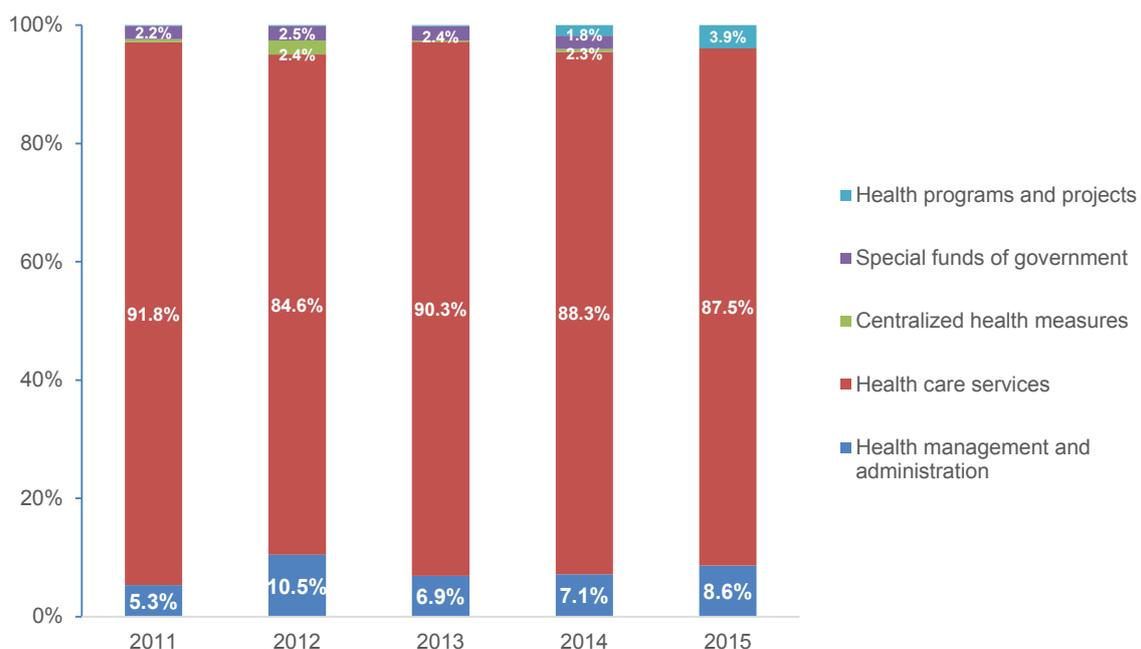
The allocation according to standard cost per citizen or an expenditure of family health center is considered in the government internal transfer until 2012. The increased expenditure of Sum health centers, sports club and committees and other clubs in rural area is added in it since 2013 according to the Law of Budget, the Order number 244 named the Regulation to Develop the Draft of Budget approved by Minister of Finance in 2012 and the Order number #73 named the Regulation of the Right of Budget Spending and Financing.

However amount of money has been increased except capital expenditure, percentage in total expenditure of health and sports sector is instable. This fluctuation is depending on capital expenditure and government internal transfers.

**Figure 11.1.3. Total health and sports expenditure by main activities (percentage)**

Source: Division of finance, MOHS

The dynamics of last 5 years shows that the majority of 72.8-94.7 percent of health care expenditure and the lowest expenditure or 0.0-3.9% of sports, 5.3-23.3 percent of capital expenditure, respectively, of total health and sports sectors expenditure

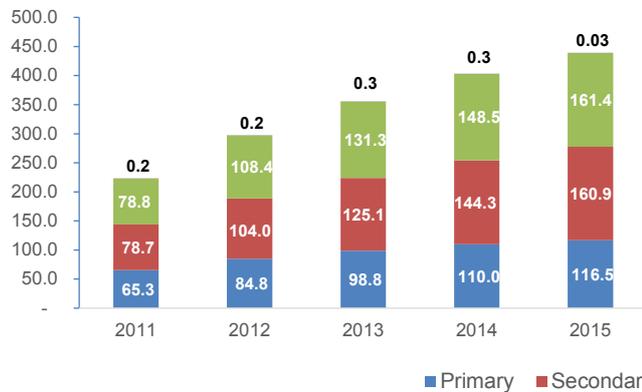
**Figure 11.1.4. Health expenditure by sub activities (percentage)**

Source: Division of finance, MOHS

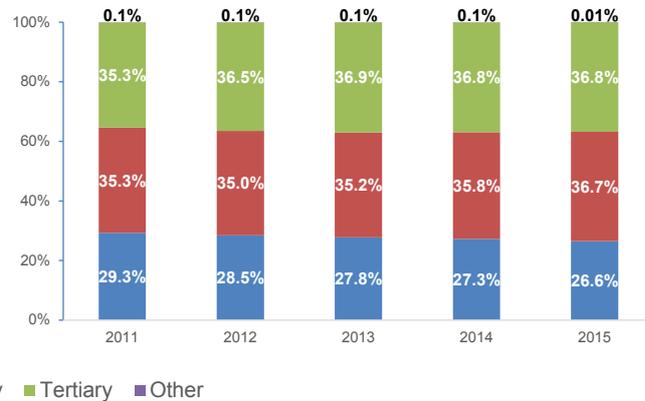
Health expenditure categorized by sub groups shows that majority or 84.6-91.8% for health care services, 5.3-10.5% for activities of administration and management in health sector, 2.8-4.9% for centralized health measures, special funds of government and expenditure of projects and programs were spent respectively.

The average of these expenditures in past 5 years shows that 88.5% for health care services, 7.7% for health care management and 3.8% for other expenses were spent respectively.

**Figure 11.1.5.A. Health care expenditure by health care level (billion MNT)**



**Figure 11.1.5.B. Health care expenditure by health care level (percentage)**



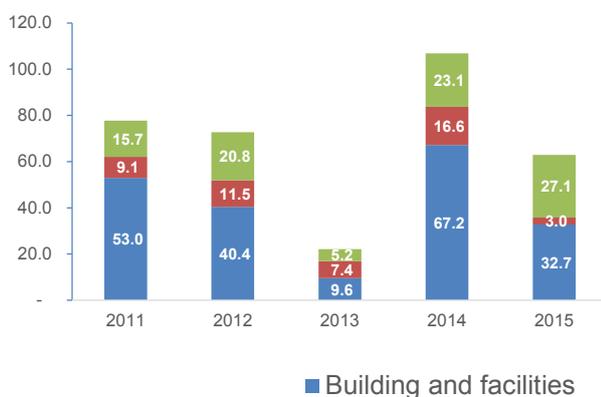
Source: Division of finance, MOHS

According to the expenditure of health care services categorized by the level of health care services, average of 15.9% annual increase on expenditure primary health care organizations, average of 19.8% annual increase on expenditure of secondary health care organizations, and average of 20.1% annual increase on expenditure of tertiary health care organizations were shown in last 5 years.

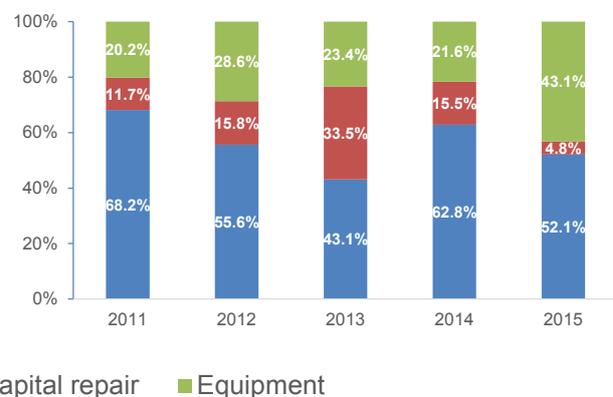
The dynamics of last 5 years shows that 26.6-29.3 % for providers of primary health care service, 35.0-36.7% for providers of secondary health care service, 35.3-36.9% for providers of tertiary health care service and 0.01-0.1% for expenditure of other organizations were spent respectively.

Expenditure of primary health care service providers accounts for 29.3% in 2011 and 26.6% in 2015, decreased by 2.7%, expenditure of secondary health care service providers accounts for 35.3% in 2011 and 36.7 in 2015, increased 1.4%, and expenditure of tertiary health care service providers accounts for 35.3% in 2011 and 36.8% in 2015, increased by 1.5%.

**Figure 11.1.6.A. Capital expenditure by type of asset (billion MNT)**



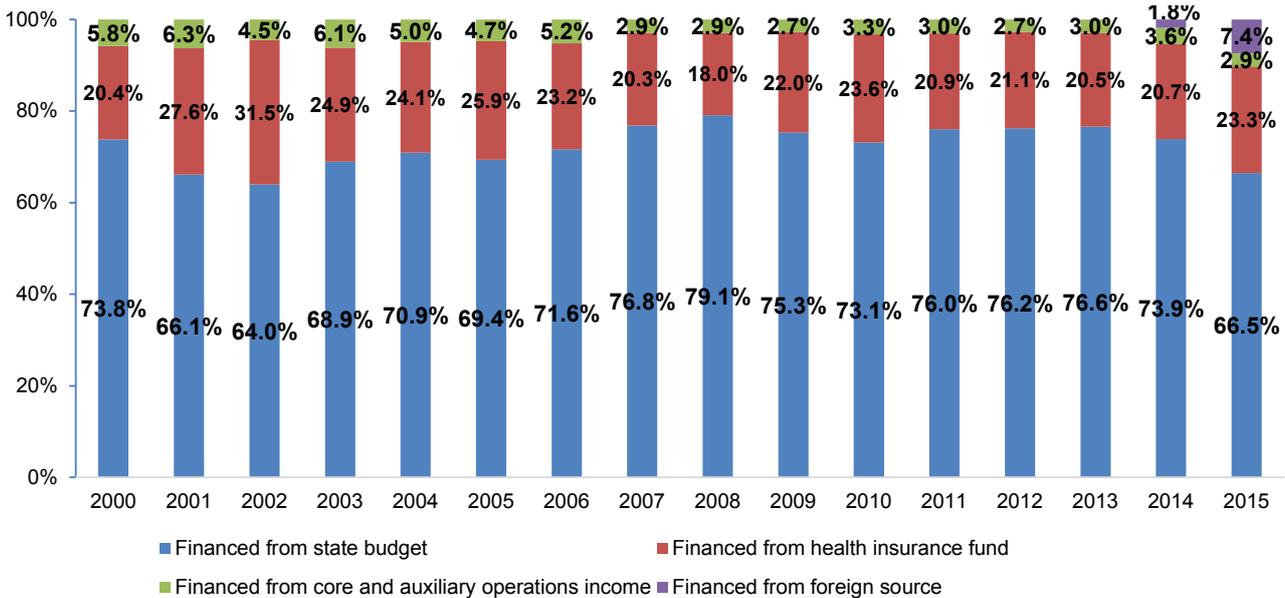
**Figure 11.1.6.B. Capital expenditure by type of asset (percentage)**



Source: Division of finance, MOHS

The investment indicators in past 5 years shows, all types of investment cost, amount of money and total investment were varied. Out of total investment, 43.1-68.2% for construction, 4.8-33.5% for renovation and 20.2-43.1% for automobiles and other equipment were spent respectively.

**Figure.11.1.7. Financing sources of health and sports expenditure (percentage)**

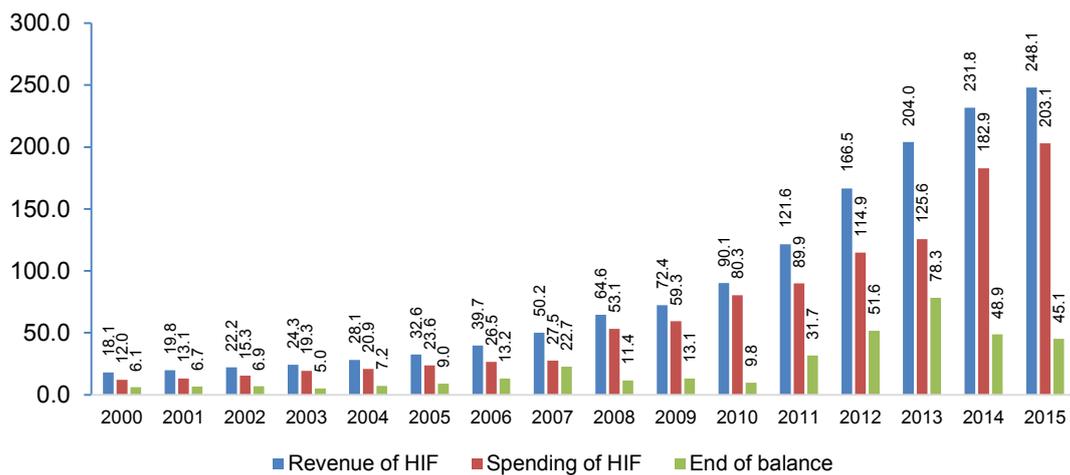


Source: Division of finance, MOHS

The sources of Health and Sports sector’s finance, international sponsors were registered in 2014 and 2015. Projects, programs and capital expenditures were financed by foreign investment.

## 11.2. REVENUES AND EXPENDITURES OF HEALTH INSURANCE FUND

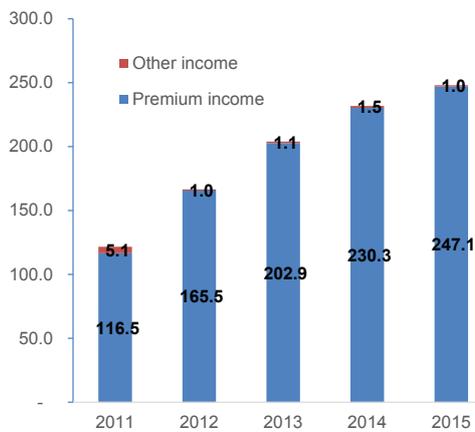
**Figure 11.2.1. Revenue and expenditure of Health insurance fund (billion MNT)**



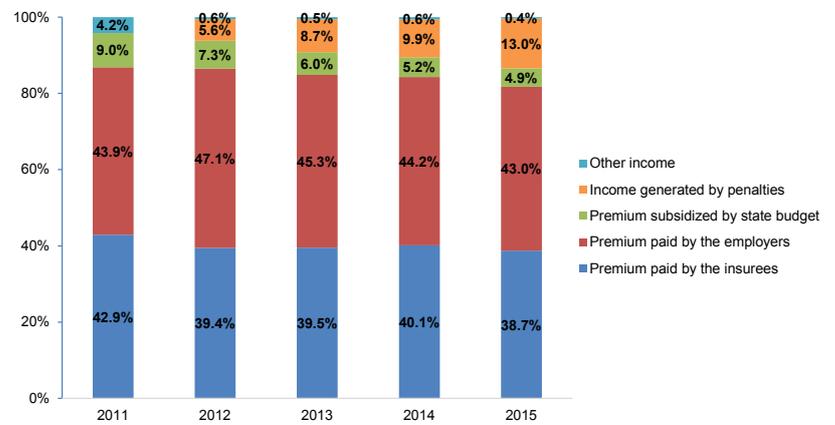
Source: Social Insurance general office, DHI

Revenues and expenditure of Health Insurance Fund are expected to be increased year by year. 73% of total revenue was spent annually based on the percentage of health insurance expenditure in revenues of health insurance fund averaged in past 16 years. Out of total, minimum or 54.8% in 2007 and maximum or 89.1% in 2010 were spent respectively.

**Figure 11.2.2.A. Revenue of health insurance fund by source of revenue (billion MNT)**



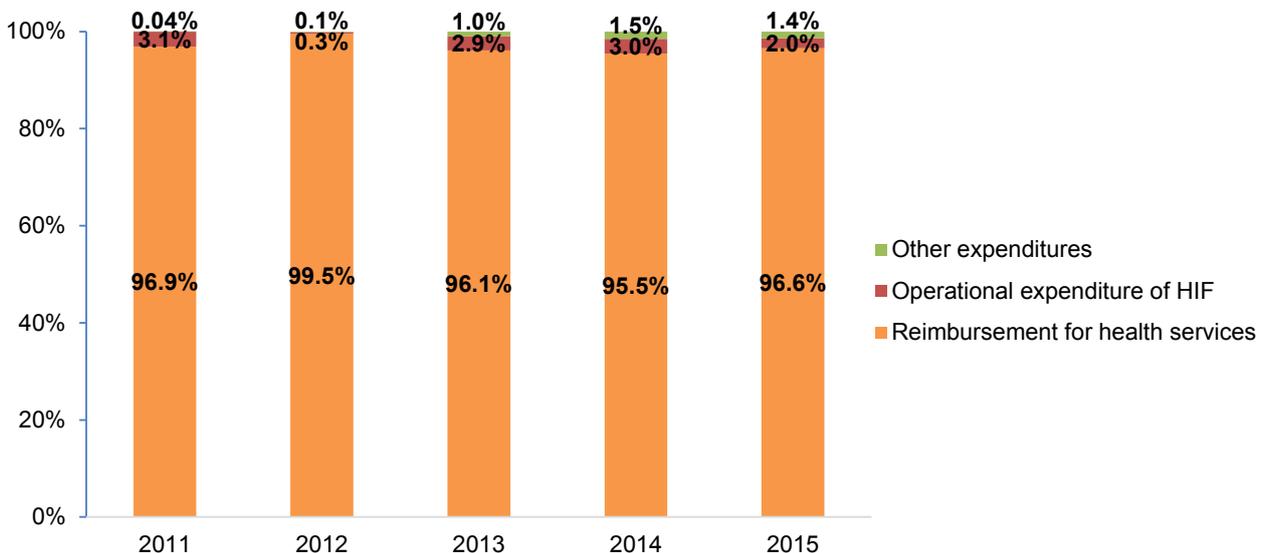
**Figure 11.2.2.B. Revenue of health insurance fund by source of revenue (percentage)**



Source: Social Insurance general office, DHI

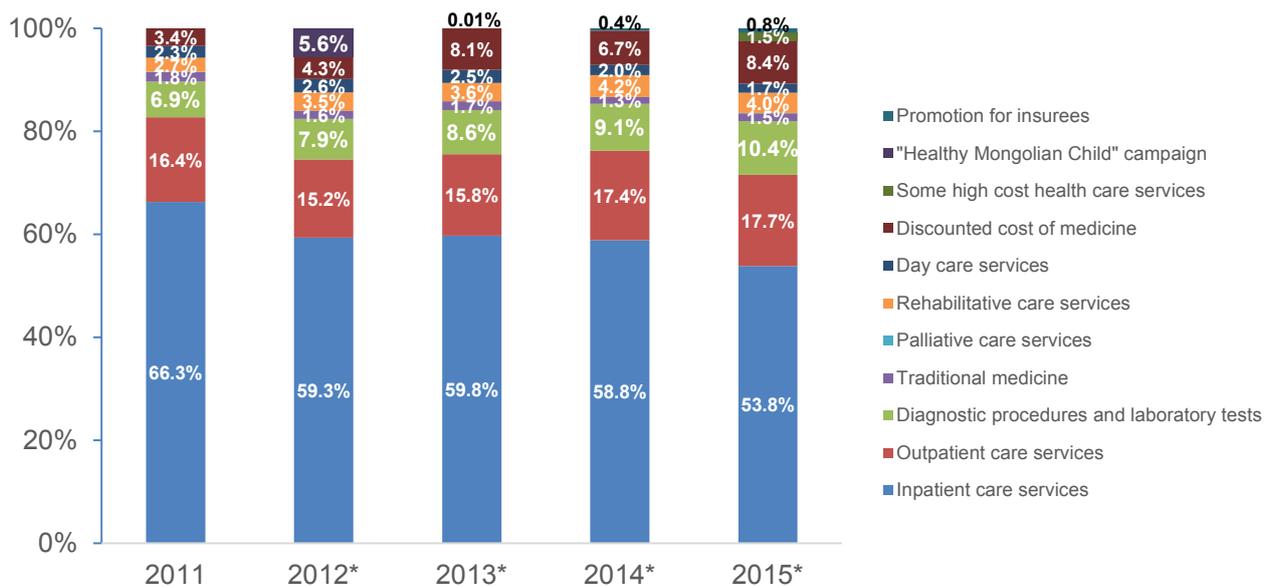
In 2011, out of total 121.6 billion MNT in Health Insurance Fund, 116.5 billion MNT from premiums and 5.1 billion MNT from other financial sources were constituted and out of total 248.1 billion MNT in 2015, 247.1 billion MNT from premiums and 1.0 billion MNT from other financial sources were constituted. Health insurance premiums paid by Employers made up majority or 43.0-47.1% of total Health Insurance Fund. Second financial source is a premium of insurers that constituted 38.7-42.9% of total Health Insurance Fund. Revenues generated from fines and payments made up 5.6-13.0% of total.

**Figure 11.2.3. Expenditure of Health insurance fund (percentage)**



Source: Social Insurance general office, DHI

Cost indicators of Health Insurance Fund in past 5 years show, 95.5-99.5% was expenditure of health care services for insurers. 0.3-3.1% of total cost was spent on the activities of Health Insurance Organization.

**Figure 11.2.4. . Reimbursement for health services by classification of health care services (percentage)**

Source: Social Insurance general office, DHI

The health care service cost classified by health care services for insurers shows, 53.8-66.3% for inpatient healthcare service, 15.2-17.7% for outpatient healthcare service, 3.4-8.4% for subsidized cost of pharmaceuticals, 2.7-4.2% for rehabilitation, 1.7-2.6% day care service, 1.3-1.8% for traditional medicines, 0.01-0.1% for palliative care were spent respectively.

Therefore, out of total healthcare service expenditure for insurers, 5.6% for "Healthy Children" Campaign in 2012, 0.01% in 2013, 0.4% in 2014 and 0.8% in 2015 to full medical examination for those did not use their health insurance in 3 years, 1.5% for some high cost health services, essential medical devices, some type of artificial tubes, prosthesis and orthopedic devices for rehabilitation were spent respectively.

**Table 11.2.1. In 2015, Expenditure of inpatient and day care health services financed by health insurance fund for insurers, as planned (10 most expensive diagnosis related group)**

| Order | Diagnosis-related group                                 | Thousand people | Billion tugrik |
|-------|---|-----------------|----------------|
| 1     | Hypertensive diseases                                   | 36.2            | 9.1            |
| 2     | Disease of renal and urinary, nephrit                   | 40.2            | 8.8            |
| 3     | Pneumonia, disease of pulmonary                         | 33.4            | 7.9            |
| 4     | Disease of respiratory                                  | 19.9            | 4.6            |
| 5     | Other disorders of the nervous system                   | 21.6            | 4.5            |
| 6     | Operation of spine, joint and organs injury             | 8.3             | 3.8            |
| 7     | Myocardial infarction, ischaemic embolism, pericarditis | 14.7            | 3.6            |
| 8     | Diseases of noninfective gastric and intestinal         | 11.8            | 3.1            |
| 9     | Arthritis, arthropathy, other disorders of joint        | 13.5            | 3.1            |
| 10    | Chronic disease of liver                                | 13.6            | 3.1            |
|       | <b>Total</b>  | <b>213.2</b>    | <b>51.7</b>    |

As of 2015, 10 diagnosis related group costs listed on the table 10.2.1 constituted major part in total expenditure of inpatient healthcare service and day care service financed by Health Insurance Fund. In total health expenditure, total cost of 10 diagnosis related group spent 47.4% of total estimated cost for healthcare service.

Table 11.2.2. Main indicators of health and sports expenditure

| Indicators  | 2000        | 2001        | 2002        | 2003        | 2004        | 2005        | 2006        | 2007        | 2008        | 2009        | 2010        | 2011         | 2012         | 2013         | 2014         | 2015         |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| GDP, by production approaches, at current price (million tugrik)          | 1,224,062.1 | 1,391,878.2 | 1,550,609.9 | 1,829,072.2 | 2,361,156.9 | 3,041,405.7 | 4,027,558.6 | 4,956,647.2 | 6,555,569.4 | 6,590,637.1 | 9,756,588.4 | 13,173,763.4 | 16,688,419.6 | 19,174,242.6 | 22,227,054.3 | 23,166,779.1 |
| Total health and sports expenditure (million tugrik)                      | 46,860.6    | 54,281.1    | 57,662.2    | 62,067.2    | 77,571.3    | 83,725.9    | 103,168.0   | 155,400.0   | 211,497.1   | 206,429.3   | 250,264.7   | 333,702.5    | 424,387.9    | 415,823.8    | 584,164.7    | 581,851.5    |
| Health and sports expenditure as % of GDP                                 | 3.8         | 3.9         | 3.7         | 3.4         | 3.3         | 2.8         | 2.6         | 3.1         | 3.2         | 3.1         | 2.6         | 2.5          | 2.5          | 2.2          | 2.6          | 2.5          |
| Total health and sports expenditure per capita (tugrik)                   | 19,602.8    | 22,137.5    | 23,449.5    | 24,929.6    | 30,799.4    | 32,862.0    | 40,029.1    | 43,092.0    | 79,529.7    | 76,183.0    | 90,732.5    | 119,764.5    | 149,447.6    | 143,436.4    | 197,145.6    | 192,229.2    |
| <b>Financing source of health end sports expenditure (million tugrik)</b> |             |             |             |             |             |             |             |             |             |             |             |              |              |              |              |              |
| State budget  | 34,578.9    | 35,891.1    | 36,892.8    | 42,811.3    | 55,284.1    | 58,675.0    | 74,843.5    | 118,900.0   | 167,680.3   | 154,356.2   | 183,939.8   | 236,443.9    | 310,604.8    | 318,346.3    | 438,232.1    | 366,847.1    |
| HIF   | 9,553.3     | 14,970.3    | 18,173.0    | 15,469.0    | 18,793.4    | 21,929.1    | 24,196.6    | 31,400.0    | 38,212.4    | 45,086.7    | 59,457.4    | 65,127.3     | 85,955.7     | 85,133.5     | 122,842.7    | 135,363.3    |
| Core and auxiliary operations income                                      | 2,728.4     | 3,419.7     | 2,596.4     | 3,811.9     | 3,869.2     | 3,988.7     | 5,462.5     | 4,500.0     | 6,178.5     | 5,630.0     | 8,199.1     | 9,467.8      | 11,073.2     | 12,339.1     | 21,351.3     | 16,995.7     |
| Foreign source  | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | 10,850.8     | 42,821.2     |

Note: \* Database national registration and statistics office /www.1212.mn/stat/html/stat.html.do

Table 11.2.3. Health and sports expenditure by line items (MNT)

| Line items                                | 2000     | 2001     | 2002     | 2003     | 2004     | 2005     | 2006      | 2007      | 2008      | 2009      | 2010      | 2011      | 2012      | 2013      | 2014      | 2015      |
|---|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total expenditure                         | 46,860.6 | 54,281.1 | 57,662.2 | 62,067.2 | 77,571.3 | 83,725.9 | 103,168.3 | 155,400.0 | 211,497.1 | 206,429.3 | 250,264.7 | 333,702.5 | 424,387.9 | 415,823.8 | 584,164.7 | 581,851.5 |
| Wages and salaries, bonuses               | 13,966.9 | 15,024.5 | 17,725.3 | 17,194.4 | 22,292.5 | 24,194.6 | 33,437.3  | 63,300.0  | 92,982.4  | 92,743.8  | 100,363.8 | 121,680.3 | 176,880.1 | 166,808.4 | 193,195.5 | 207,980.8 |
| Medicines                                 | 7,960.4  | 9,538.2  | 9,379.7  | 9,504.0  | 11,235.9 | 11,881.4 | 13,361.1  | 15,600.0  | 23,298.1  | 25,415.6  | 34,982.2  | 41,101.3  | 58,893.5  | 58,227.2  | 68,589.4  | 70,433.6  |
| Meal                                      | 2,299.8  | 2,658.8  | 3,096.6  | 2,648.8  | 3,160.6  | 3,317.7  | 3,577.1   | 4,100.0   | 5,814.1   | 6,911.5   | 7,777.9   | 9,011.3   | 9,933.1   | 9,859.1   | 10,677.2  | 11,041.4  |
| Fixed expenses related to office building | 7,557.3  | 8,733.2  | 9,394.6  | 8,800.6  | 9,409.1  | 10,858.2 | 12,118.7  | 14,400.0  | 14,974.6  | 15,096.3  | 19,576.8  | 22,896.9  | 20,871.8  | 20,355.7  | 21,828.3  | 25,110.3  |
| Government domestic transfer *            |          |          |          | 1,788.1  | 2,202.3  | 3,455.1  | 4,056.2   |           | 9,230.1   | 9,674.1   | 10,209.8  | 13,125.7  | 16,557.3  | 84,776.0  | 104,056.9 | 110,959.1 |
| Capital expenses                          | 1,399.5  | 1,162.9  | 1,929.6  | 3,168.2  | 3,576.1  | 3,459.8  | 5,799.5   | 10,846.1  | 15,758.7  | 20,591.4  | 41,112.8  | 77,765.9  | 72,694.5  | 22,161.8  | 106,870.7 | 62,870.5  |
| Building and facilities                   |          |          |          | 1,747.8  | 1,887.3  | 1,818.1  | 2,054.3   | 6,603.5   | 7,378.8   | 12,156.9  | 24,299.8  | 53,023.2  | 40,440.3  | 9,558.4   | 67,160.1  | 32,740.2  |
| Capital repair                            |          |          |          | 1,085.7  | 1,147.9  | 1,096.1  | 886.9     | 1,756.5   | 4,593.2   | 5,434.9   | 7,631.0   | 9,060.3   | 11,457.2  | 7,426.6   | 16,599.5  | 3,003.3   |
| Equipment                                 |          |          |          | 334.8    | 540.9    | 545.6    | 2,858.3   | 2,486.1   | 3,786.7   | 2,999.6   | 9,181.9   | 15,682.4  | 20,797.0  | 5,176.7   | 23,121.0  | 27,127.1  |
| Other expenses                            | 13,676.7 | 17,163.5 | 16,136.4 | 18,963.2 | 25,694.8 | 26,559.0 | 30,818.5  | 47,153.9  | 49,439.1  | 35,996.6  | 36,241.5  | 48,121.2  | 68,557.5  | 53,635.5  | 78,946.7  | 93,455.8  |

Note: \* Government domestic transfer has been reported registered in other expenses in 2000, 2001, 2002, 2007

**Table 11.2.4. Composition of health and sports expenditure (MNT)**

| Health and Sports expenditure                                | 2011             | 2012             | 2013             | 2014             | 2015             |
|--|------------------|------------------|------------------|------------------|------------------|
| <b>Health expenditure</b>                                    | <b>242 932.4</b> | <b>351 569.6</b> | <b>393 662.0</b> | <b>456 415.3</b> | <b>501 823.2</b> |
| Health management and administration                         | 12 988.4         | 36 767.2         | 27 034.2         | 32 618.0         | 43 150.3         |
| Health care services   | 223 016.8        | 297 421.5        | 355 565.6        | 403 125.5        | 438 897.0        |
| Family health centers  | 13 272.7         | 16 697.2         | 84 776.0         | 94 655.2         | 101 279.3        |
| Soum health centers  | 46 482.2         | 55 853.6         |                  |                  |                  |
| Village health centers                                       | 447.9            | 904.4            |                  |                  |                  |
| Inter-soum hospitals   | 5 130.5          | 11 311.7         | 12 982.2         | 14 187.3         | 15 260.5         |
| Ambulance service center                                     | 3 100.3          | 4 687.2          | 5 494.7          | 5 766.4          | 6 151.3          |
| Zoonotic disease centers of provinces                        | 1 824.1          | 2 378.1          | 2 818.3          | 2 982.6          | 3 156.7          |
| Centers of traditional medicine and sanatoriums of provinces | 1 117.7          | 1 276.9          | 1 471.7          | 1 741.8          | 1 838.6          |
| Maternity hospitals  | 4 712.5          | 6 526.5          | 9 766.7          | 12 094.3         | 13 634.2         |
| Rural general hospital                                       | 42 730.9         | 55 335.0         | 66 142.4         | 7 969.7          | 9 126.4          |
| Aimag general hospitals                                      |                  |                  |                  | 70 825.3         | 78 901.8         |
| District health centers and general hospitals                | 22 086.9         | 29 619.6         | 34 521.6         | 37 697.3         | 42 103.8         |
| Other hospitals under UB health department                   | 3 167.4          | 4 196.6          | 4 920.8          | 5 268.3          | 5 989.9          |
| RDTC   | 14 209.7         | 22 586.9         | 26 455.2         | 28 275.1         | 30 958.2         |
| Central hospitals  | 23 623.1         | 30 372.3         | 34 129.5         | 38 571.0         | 44 828.8         |
| Specialized centers  | 39 913.0         | 54 178.5         | 69 389.5         | 80 182.3         | 84 130.1         |
| Institute of traditional medicine and technology             | 1 036.3          | 1 274.4          | 1 363.9          | 1 504.6          | 1 510.0          |
| Others   | 161.6            | 222.7            | 251.4            | 257.0            | 27.4             |
| Centralized health measures                                  | 1 221.4          | 8 277.4          | 1 023.7          | 2 271.9          | -                |
| Special funds of government                                  | 5 422.0          | 8 792.6          | 9 410.7          | 10 375.0         | 128.9            |
| Health programs and projects                                 | 283.9            | 310.9            | 627.8            | 8 024.9          | 19 646.9         |
| <b>Sports expenditure</b>                                    | <b>13 004.3</b>  | <b>123.8</b>     | <b>-</b>         | <b>20 878.7</b>  | <b>17 157.8</b>  |
| <b>Capital expenditure</b>                                   | <b>77 765.9</b>  | <b>72 694.5</b>  | <b>22 161.8</b>  | <b>106 870.7</b> | <b>62 870.5</b>  |
| <b>Total expenditure</b>                                     | <b>333 702.5</b> | <b>424 387.9</b> | <b>415 823.8</b> | <b>584 164.7</b> | <b>581 851.5</b> |

Table 11.2.5. Health insurance fund income, expenditure

| Indicators  | 2000<br>(million<br>MNT) | 2001<br>(million<br>MNT) | 2002<br>(million<br>MNT) | 2003<br>(million<br>MNT) | 2004<br>(million<br>MNT) | 2005<br>(million<br>MNT) | 2006<br>(million<br>MNT) | 2007<br>(million<br>MNT) | 2008               |                  | 2009               |                  |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------|------------------|--------------------|------------------|
|   |                          |                          |                          |                          |                          |                          |                          |                          | Thousand<br>people | (million<br>MNT) | Thousand<br>people | (million<br>MNT) |
| Revenue of health insurance fund  | 18 111.2                 | 19 802.6                 | 22 188.3                 | 24 312.5                 | 28 124.6                 | 32 574.2                 | 39 660.0                 | 50 263.7                 | 2 233.7            | 64 558.8         | 2 122.9            | 72 359.4         |
| Premium paid by the insurees  |                          |                          |                          |                          |                          |                          |                          |                          | 880.5              | 28 484.3         | 887.9              | 31 577.7         |
| Premium paid by the employees   |                          |                          |                          |                          |                          |                          |                          |                          |                    |                  |                    |                  |
| Premium paid by self employer, herdsman, unemployed people                      |                          |                          |                          |                          |                          |                          |                          |                          |                    |                  |                    |                  |
| Premium paid by the employers   |                          |                          |                          |                          |                          |                          |                          |                          | 539.7              | 25 980.6         | 546.0              | 28 852.4         |
| Premium subsidized by state budget  |                          |                          |                          |                          |                          |                          |                          |                          | 1 353.2            | 8 094.3          | 1 235.0            | 8 094.3          |
| Income generated by penalties   |                          |                          |                          |                          |                          |                          |                          |                          |                    |                  |                    |                  |
| Interest of health insurance surplus placed in bank account                     |                          |                          |                          |                          |                          |                          |                          |                          |                    | 1 841.0          |                    | 3 569.6          |
| Fee fro premium overdue   |                          |                          |                          |                          |                          |                          |                          |                          |                    | 70.3             |                    | 74.1             |
| Others  |                          |                          |                          |                          |                          |                          |                          |                          |                    | 88.3             |                    | 191.3            |
| Expenditure of health insurance fund by classification of health services       | 12 024.1                 | 13 057.6                 | 15 320.1                 | 19 264.9                 | 20 901.4                 | 23 581.3                 | 26 528.1                 | 27 542.5                 | 1 617.9            | 53 113.4         | 1 736.6            | 59 295.3         |
| Reimbursement for health services by classification of health services, actual  | 12 024.1                 | 13 057.6                 | 15 320.1                 | 18 658.4                 | 20 652.5                 | 23 581.3                 | 26 036.7                 | 26 185.3                 | 1 617.9            | 50 840.4         | 1 736.6            | 56 942.6         |
| Reimbursement for health services by classification of health services, planned |                          |                          |                          |                          |                          |                          |                          |                          |                    |                  |                    |                  |
| Inpatient care services   | 11 352.7                 | 12 010.7                 | 13 997.6                 | 15 227.5                 | 16 792.6                 | 18 794.0                 | 20 528.5                 | 22 893.4                 | 356.0              | 39 981.0         | 340.1              | 47 500.5         |
| Outpatient care services  | 191.7                    | 416.0                    | 607.4                    | 1 097.5                  | 1 115.2                  | 1 766.4                  | 3 339.9                  | 2 154.5                  | 920.1              | 8 605.5          | 853.7              | 6 306.3          |
| Diagnostic procedures and laboratory tests                                      | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                  | -                | -                  | -                |
| Traditional medicine  | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                  | -                | -                  | -                |
| Palliative care services  | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                  | -                | -                  | -                |
| Rehabilitative care services  |                          |                          |                          |                          |                          |                          |                          |                          |                    |                  |                    |                  |
| Sanatorium services   |                          |                          |                          |                          |                          |                          |                          |                          |                    |                  |                    |                  |
| Clinical sanatorium services  | 229.1                    | 252.2                    | 290.6                    | 342.8                    | 389.1                    | 462.7                    | 558.5                    | 573.0                    | 31.2               | 1 190.8          | 36.7               | 1 507.6          |
| Day care services   | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                        | 4.6                | 178.8            | 3.7                | 145.6            |
| Discounted cost of medicine   | 250.6                    | 378.7                    | 424.5                    | 381.8                    | 526.9                    | 571.1                    | 564.5                    | 564.4                    | 306.0              | 884.3            | 502.4              | 1 482.6          |
| Some high cost health care services   | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                  | -                | -                  | -                |
| Family health centers   | -                        | -                        | -                        | 1 608.8                  | 1 828.7                  | 1 987.1                  | 1 045.3                  | -                        | -                  | -                | -                  | -                |
| "Healthy Mongolian Child" campaign  | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                  | -                | -                  | -                |
| Promotion for insurees  | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                  | -                | -                  | -                |
| Operational expenditure of HIF  | -                        | -                        | -                        | 606.5                    | 248.9                    | -                        | 491.4                    | 1 357.2                  |                    | 2 273.0          |                    | 2 352.7          |
| Other expenditures  | -                        | -                        | -                        | -                        | -                        | -                        | -                        | -                        |                    | -                |                    | -                |
| Expenditure of health insurance fund by property type*                          | 12 024.1                 | 13 057.6                 | 15 320.1                 | 19 264.9                 | 20 901.4                 | 23 581.3                 | 26 528.1                 | 27 542.5                 | 1 617.9            | 53 113.4         | 1 736.6            | 59 295.3         |
| Public health organizations   | 11 484.5                 | 12 251.3                 | 14 003.7                 | 17 981.7                 | 18 889.6                 | 21 427.3                 | 24 145.4                 | 25 034.3                 |                    | 43 168.7         |                    | 47 785.9         |
| Private health organizations  | 539.6                    | 806.3                    | 1 316.4                  | 1 283.2                  | 2 011.8                  | 2 154.0                  | 2 382.7                  | 2 058.2                  |                    | 7 671.7          |                    | 9 156.7          |
| Annual surplus of HIF   | 6 087.1                  | 6 745.0                  | 6 868.2                  | 5 047.6                  | 7 223.2                  | 8 992.9                  | 13 131.9                 | 22 721.2                 |                    | 11 445.4         |                    | 13 064.1         |
| Average health insurance coverage   | 87.6%                    | 81.2%                    | 77.7%                    | 83.0%                    | 85.9%                    | 76.5%                    | 74.0%                    | 78.3%                    |                    | 82.3%            |                    | 77.6%            |

Table 11.2.5. Health insurance fund income, expenditure

| Indicators  | 2010            |               | 2011            |               | 2012            |               | 2013            |               | 2014            |               | 2015            |               |
|---|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
|   | Thousand people | (million MNT) |
| Revenue of health insurance fund  | 2 267.6         | 90 131.9      | 2 793.2         | 121 576.4     | 2 593.6         | 166 500.8     | 2 864.5         | 203 954.2     | 3 064.8         | 231 800.2     | 3 003.7         | 248 130.7     |
| Premium paid by the insurees  | 961.1           | 39 310.1      | 1 439.3         | 52 162.8      | 1 123.8         | 65 681.0      | 1 206.3         | 80 596.0      | 1 241.3         | 92 995.2      | 1 204.8         | 96 114.6      |
| Premium paid by the employees   |                 |               |                 |               | 742.0           | 61 639.5      | 803.9           | 75 943.9      | 832.9           | 87 980.2      | 799.8           | 91 111.7      |
| Premium paid by self employer, herdsman, un-employed people                     |                 |               |                 |               | 381.8           | 4 041.5       | 402.4           | 4 652.1       | 408.4           | 5 015.1       | 405.0           | 5 003.0       |
| Premium paid by the employers   | 580.8           | 35 965.7      | 659.3           | 53 421.3      |                 | 78 375.0      |                 | 92 417.1      |                 | 102 420.0     |                 | 106 726.7     |
| Premium subsidized by state budget  | 1 306.5         | 10 906.1      | 1 353.9         | 10 906.1      | 1 469.8         | 12 151.5      | 1 658.3         | 12 151.5      | 1 823.5         | 12 033.2      | 1 798.9         | 12 040.2      |
| Income generated by penalties   |                 |               |                 |               |                 | 9 341.8       |                 | 17 695.7      |                 | 22 896.8      |                 | 32 249.6      |
| Interest of health insurance surplus placed in bank account                     |                 | 3 823.2       |                 | 4 833.8       |                 | 669.6         |                 | 590.3         |                 | 883.9         |                 | 643.7         |
| Fee for premium overdue   |                 | 75.0          |                 | 115.9         |                 | 215.4         |                 | 308.2         |                 | 468.3         |                 | 279.8         |
| Others  |                 | 51.7          |                 | 136.5         |                 | 66.4          |                 | 195.4         |                 | 102.6         |                 | 76.1          |
| Expenditure of health insurance fund by classification of health services       | 2 657.4         | 80 333.7      | 3 198.4         | 89 949.3      |                 | 114 898.9     |                 | 125 636.0     |                 | 182 919.3     |                 | 203 070.5     |
| Reimbursement for health services by classification of health services, actual  | 2 656.6         | 78 121.2      | 3 196.7         | 87 145.7      |                 | 114 357.7     |                 | 120 737.4     |                 | 174 680.9     |                 | 196 133.5     |
| Reimbursement for health services by classification of health services, planned |                 |               |                 |               | 4 126.4         | 113 786.6     | 3 843.2         | 120 813.5     | 4 452.1         | 174 592.7     | 5 042.6         | 196 392.1     |
| Inpatient care services   | 333.9           | 55 201.0      | 351.8           | 57 781.9      | 362.3           | 67 516.9      | 374.1           | 72 187.8      | 419.1           | 102 733.1     | 427.0           | 105 733.6     |
| Outpatient care services  | 1 259.3         | 11 711.4      | 1 537.8         | 14 319.1      | 1 636.8         | 17 286.4      | 1 755.1         | 19 091.2      | 1 971.6         | 30 434.3      | 2 242.0         | 34 849.2      |
| Diagnostic procedures and laboratory tests                                      | 417.8           | 3 846.2       | 593.5           | 6 031.9       | 716.0           | 8 947.6       | 753.6           | 10 369.9      | 861.9           | 15 808.8      | 939.1           | 20 371.3      |
| Traditional medicine  | 18.7            | 1 467.6       | 20.6            | 1 609.7       | 20.6            | 1 853.7       | 22.0            | 2 044.0       | 20.6            | 2 327.8       | 26.0            | 2 966.2       |
| Palliative care services  | 0.3             | 20.7          | 0.6             | 32.3          | 0.1             | 11.5          | 0.1             | 10.8          | 0.2             | 61.1          | 0.4             | 123.9         |
| Rehabilitative care services  |                 |               |                 |               | 55.8            | 4 017.8       | 58.7            | 4 342.8       | 67.7            | 7 402.3       | 71.4            | 7 847.3       |
| Sanatorium services   |                 |               |                 |               | 54.9            | 3 955.3       | 57.4            | 4 244.9       | 66.8            | 7 298.1       | 70.5            | 7 748.1       |
| Clinical sanatorium services  | 42.0            | 2 062.1       | 50.3            | 2 388.4       | 0.9             | 62.6          | 1.3             | 97.8          | 0.9             | 104.2         | 0.9             | 99.2          |
| Day care services   | 17.2            | 1 766.8       | 19.4            | 1 994.1       | 24.5            | 2 931.3       | 24.8            | 3 033.2       | 28.4            | 3 444.4       | 27.8            | 3 383.6       |
| Discounted cost of medicine   | 567.4           | 2 045.4       | 622.8           | 2 988.3       | 706.9           | 4 886.4       | 854.5           | 9 727.4       | 1 073.3         | 11 634.6      | 1 286.3         | 16 450.8      |
| Some high cost health care services   | -               | -             | -               | -             | -               | -             | -               | -             | -               | -             | 2.1             | 3 036.4       |
| Family health centers   | -               | -             | -               | -             | -               | -             | -               | -             | -               | -             | -               | -             |
| "Healthy Mongolian Child" campaign  | -               | -             | -               | -             | 603.3           | 6 335.1       | -               | -             | -               | -             | -               | -             |
| Promotion for insurees  | -               | -             | -               | -             | -               | -             | 0.3             | 6.4           | 9.3             | 746.4         | 20.4            | 1 629.7       |
| Operational expenditure of HIF  |                 | 2 196.1       |                 | 2 766.9       |                 | 398.2         |                 | 3 693.7       |                 | 5 491.0       |                 | 4 114.0       |
| Other expenditures  | 0.8             | 16.5          | 1.7             | 36.7          |                 | 143.0         |                 | 1 204.9       |                 | 2 747.4       |                 | 2 823.0       |
| Expenditure of health insurance fund by property type*                          | 2 657.4         | 80 333.7      | 3 198.4         | 89 949.3      |                 | 113 786.6     |                 | 120 813.5     |                 | 174 592.7     |                 | 196 392.1     |
| Public health organizations   |                 | 62 807.1      |                 | 68 905.6      |                 | 89 374.7      |                 | 89 760.2      |                 | 128 768.0     |                 | 141 626.2     |
| Private health organizations  |                 | 15 320.3      |                 | 18 276.9      |                 | 24 411.9      |                 | 31 053.4      |                 | 45 824.8      |                 | 54 765.8      |
| Annual surplus of HIF   |                 | 9 798.2       |                 | 31 627.1      |                 | 51 601.9      |                 | 78 318.2      |                 | 48 880.9      |                 | 45 060.2      |
| Average health insurance coverage   | 82.6%           |               | 98.6%           |               | 90.4%           |               | 97.7%           |               | 102.3%          |               | 98.1%           |               |

Note: \* Expenditure of health insurance fund by property type, planned 2012-2015

**Table 11.2.6. Planned expenditure of health insurance fund by DRG**

| DRG code | DRG name   | Number of person | Expenditure     |
|----------|--|------------------|-----------------|
| 1        | Haemorrhage, cerebral infarction                                   | 4 130.0          | 1 042 831 575.5 |
| 2        | Cerebrovascular disease, stroke and it's sequelae                  | 12 714.0         | 2 980 920 580.0 |
| 3        | Disease of nerve, nerve peripheral nervous system                  | 7 428.0          | 1 554 603 860.0 |
| 4        | Meningitis   | 233.0            | 84 542 772.0    |
| 5        | Seizures, convulsions, status epilepticus                          | 4 678.0          | 1 446 286 200.5 |
| 6        | Migraine and Other headache syndroms                               | 10 630.0         | 2 290 961 999.5 |
| 7        | Other disorders of nervous system                                  | 21 591.0         | 4 506 650 886.5 |
| 8        | Operations of brain, spinal, peripheral nerve                      | 227.0            | 141 160 198.0   |
| 9        | Disorders of globe and lens  | 802.0            | 147 098 709.0   |
| 10       | Disorders of eye   | 863.0            | 156 130 945.0   |
| 11       | Disorders of eye reason of nerve                                   | 256.0            | 41 735 250.0    |
| 12       | Other disorders of eye   | 578.0            | 108 454 764.0   |
| 13       | Operations of eye  | 5 325.0          | 1 392 386 109.5 |
| 14       | Disorders of vestibular function and deafness                      | 977.0            | 134 367 084.0   |
| 15       | Diseases of ear, nose and tube                                     | 6 185.0          | 1 307 295 230.5 |
| 16       | Other diseases of ear, nose, mouth and tube                        | 11 417.0         | 2 210 349 115.5 |
| 17       | Operations of ear, nose, mouth, tube and upper respiratory         | 2 194.0          | 532 789 032.0   |
| 18       | Other operations of ear, nose, mouth, tube and tubotympanic organs | 3 621.0          | 913 095 452.0   |
| 19       | Diseases of respiratory system                                     | 19 917.0         | 4 595 448 453.0 |
| 20       | Pneumonia, infection of pulmonary                                  | 33 367.0         | 7 898 617 819.0 |
| 21       | Asthma, Status asthmaticus, Bronchiectasis                         | 2 319.0          | 430 346 501.5   |
| 22       | Disorders of interstitial pulmonary, pleural                       | 239.0            | 49 330 031.0    |
| 23       | Emphysema, pneumothorax, effusion and other diseases               | 3 463.0          | 887 360 291.5   |
| 24       | Operation of thoracic  | 102.0            | 39 872 729.5    |
| 25       | Injury of intrathoracic organs and intra-abdominal organs          | 218.0            | 55 851 147.0    |
| 26       | Myocardial infarction, ischaemic embolism, pericarditis            | 14 734.0         | 3 635 410 576.0 |
| 27       | Heart failure, complications                                       | 267.0            | 60 657 300.0    |
| 28       | Disorders of veins, thrombosis, thrombophlebitis                   | 1 322.0          | 168 290 915.0   |
| 29       | Disorders of aortic and arterial                                   | 168.0            | 36 177 650.0    |
| 30       | Atherosclerosis  | 1 868.0          | 400 565 256.0   |
| 31       | Hypertensive diseases  | 36 153.0         | 9 135 166 998.5 |
| 32       | Disorders of rheumatic heart and valve                             | 1 647.0          | 321 618 241.0   |
| 33       | Disorder of cardiac arrhythmias and conduction                     | 344.0            | 63 054 636.0    |
| 34       | Angina pectoris  | 5 209.0          | 1 049 779 331.0 |
| 35       | Cardiomyopathy, myocarditis, rheumatic disease                     | 5 420.0          | 1 078 124 565.0 |
| 36       | Other disorders of the circulatory system                          | 178.0            | 33 020 602.0    |
| 37       | Operation of heart   | 42.0             | 31 654 312.0    |
| 38       | Operation of vessels   | 2 897.0          | 936 139 493.5   |
| 39       | Diseases of tooth and oral cavity, treatment of dental caries      | 1 911.0          | 284 500 622.0   |
| 40       | Operations of face and floor of mouth                              | 344.0            | 149 404 682.0   |
| 41       | Peritonitis, disorder of intestine                                 | 128.0            | 34 636 140.0    |
| 42       | Disorders of appendix  | 240.0            | 59 933 952.0    |
| 43       | Operation of acute appendicitis                                    | 11 573.0         | 2 917 927 660.0 |
| 44       | Inguinal and Femoral hernia  | 109.0            | 23 041 875.0    |
| 45       | Other hernia   | 61.0             | 15 760 767.0    |
| 46       | Operation of hernia  | 1 570.0          | 427 436 332.0   |
| 47       | Gastric and intestinal ulcer, diverticular disease of intestine    | 10 904.0         | 2 218 373 092.0 |
| 48       | Operation of gastric ucler   | 169.0            | 71 440 734.0    |
| 49       | Disorder of oesophagus   | 563.0            | 109 381 793.0   |
| 50       | Vascular disorders of intestine and other diagnosis of intestine   | 100.0            | 27 045 774.0    |
| 51       | Intestinal ileus and obstruction                                   | 323.0            | 69 283 612.0    |
| 52       | Diseases of noninfective gastric and intestines                    | 11 798.0         | 3 148 086 734.5 |
| 53       | Other diseases of digestive system                                 | 1 303.0          | 283 485 995.0   |
| 54       | Operation of enteritis and colitis                                 | 846.0            | 275 998 704.0   |
| 55       | Toxic, cirrhosis and failure of liver                              | 9 199.0          | 2 221 761 495.5 |
| 56       | Disorder of pancreas   | 4 515.0          | 1 019 744 759.0 |
| 57       | Operation of liver and pancreas                                    | 149.0            | 89 747 195.0    |
| 58       | Chronic disorders of liver   | 13 567.0         | 3 075 510 767.0 |
| 59       | Disorders of biliary tract   | 4 536.0          | 950 300 876.5   |
| 60       | Operation of biliary tract   | 3 040.0          | 1 497 770 014.5 |
| 61       | Endoscopic operation of digestive tract                            | 3 457.0          | 988 556 345.0   |
| 62       | Other operation of digestive tract                                 | 1 930.0          | 598 788 032.0   |

| DRG code     | DRG name  | Number of person | Expenditure              |
|--------------|---|------------------|--------------------------|
| 63           | Injury, amputation, crushing of organs  | 241.0            | 66 437 256.0             |
| 64           | Operation of spine, joint and other organs injury   | 8 346.0          | 3 836 989 600.0          |
| 65           | Superficial injury and open wound of organs, injury of nerve, vessels and tendon  | 6 879.0          | 1 831 963 847.0          |
| 66           | Fracture, dislocation, sprain and strain  | 4 866.0          | 1 456 200 294.0          |
| 67           | Osteomyelitis, osteoporosis, osteomalacia and other osteopathies  | 815.0            | 193 951 588.0            |
| 68           | Disorder of spinal  | 6 265.0          | 1 188 763 672.0          |
| 69           | Arthritis, arthropathy, other disorders of joint  | 13 496.0         | 3 091 310 757.5          |
| 70           | Other injuries and it's sequelae  | 1 647.0          | 365 456 015.0            |
| 71           | Other operations not elsewhere classified   | 4 955.0          | 1 407 446 964.0          |
| 72           | Pyoderma and mycoses of skin  | 5 541.0          | 1 244 210 681.0          |
| 73           | Diseases of Pemphigus and Bullous of skin   | 286.0            | 54 412 344.0             |
| 74           | Disease of skin reason of allergy   | 10 494.0         | 2 058 309 082.5          |
| 75           | Diseases of skin appendages   | 101.0            | 18 530 074.0             |
| 76           | Other diseases of skin  | 1 394.0          | 284 305 421.0            |
| 77           | Diabetes mellitus, nutritional and metabolic disorders  | 9 578.0          | 2 927 023 293.5          |
| 78           | Other disorders of endocrine  | 595.0            | 175 961 751.0            |
| 79           | Operation of thyroid gland  | 354.0            | 75 703 417.0             |
| 80           | Operation of endocrine, nutritional and metabolic diseases  | 45.0             | 17 427 840.0             |
| 81           | Renal failure   | 761.0            | 204 684 138.0            |
| 82           | Disorders of the genitourinary system   | 40 207.0         | 8 757 319 574.0          |
| 83           | Operation of kidney   | 227.0            | 81 808 285.0             |
| 84           | Calculus of kidney and ureter   | 327.0            | 86 006 634.0             |
| 85           | Operation of calculus of kidney   | 32.0             | 15 630 030.0             |
| 86           | " Symptoms and signs involving the urinary system "   | 606.0            | 150 821 182.0            |
| 87           | Other disorders of kidney and ureter  | 929.0            | 221 894 996.0            |
| 88           | Endoscopic operation of genitourinary organs  | 1 028.0          | 296 267 807.0            |
| 89           | Operation of bladder  | 67.0             | 22 502 345.0             |
| 90           | Other operations of kidney and ureter   | 119.0            | 39 321 169.5             |
| 91           | Diseases of male genital organs   | 1 163.0          | 290 506 528.0            |
| 92           | Operation of prostate   | 273.0            | 98 061 380.0             |
| 93           | Other operations of male genital organs   | 1 252.0          | 412 273 338.5            |
| 94           | Inflammatory diseases of female pelvic organs   | 7 857.0          | 1 404 139 157.0          |
| 95           | Other diseases of female pelvic organs  | 5 921.0          | 1 250 919 758.0          |
| 96           | Operations of pelvic peritoneal   | 522.0            | 177 718 504.0            |
| 97           | Endoscopic operation of female  | 747.0            | 126 707 113.0            |
| 98           | Other operation of female   | 1 732.0          | 379 085 520.0            |
| 99           | Benign neoplasms, polyp   | 2 151.0          | 450 677 893.0            |
| 100          | Coagulation defects   | 295.0            | 72 694 693.0             |
| 101          | Anaemias  | 834.0            | 169 438 844.0            |
| 102          | Other disorders of blood and blood-forming organs   | 1 039.0          | 185 995 395.0            |
| 103          | Poisoning by drugs and others, adverse effects  | 308.0            | 91 426 584.0             |
| 104          | Burns, frostbite, Chilblains  | 1 989.0          | 674 955 938.0            |
| 105          | Foreign body entering through natural orifice, unspecified injuries   | 153.0            | 46 485 963.5             |
| 106          | Congenital malformations, deformations and chromosomal abnormalities  | 1 985.0          | 576 572 256.5            |
| 107          | Factors influencing health status and contact with health services  | 358.0            | 82 857 852.0             |
| 108          | Non-operational outpatient visit  | 1 226 477.0      | 18 397 155 362.0         |
| 109          | Operational outpatient visit,   | 1 015 561.0      | 16 452 039 000.0         |
| 110          | Diagnostic procedures and laboratory tests  | 939 122.0        | 20 371 348 398.0         |
| 111          | Traditional medicine  | 25 958.0         | 2 966 239 095.0          |
| 112          | Palliative care services  | 416.0            | 123 885 000.0            |
| 113/114      | Sanatorium services   | 71 393.0         | 7 847 257 531.0          |
| 114          | Clinical sanatorium services  | 846.0            | 98 355 725.0             |
| 115          | long term rehabilitative care services  | -                | -                        |
| 300          | Promotion for insurees  | 20 378.0         | 1 629 655 000.0          |
|              | Some high costed health care services, necessary medical durables, some kind of trunk, prothesis for rehabilitation, orthopaedics | 2 133.0          | 3 036 415 794.0          |
|              | "Healthy mongolian child" campaign  | -                | -                        |
|              | Discounted cost of medicine   | 1 286 297.0      | 16 450 825 102.0         |
| <b>Total</b> |   | <b>5 042 575</b> | <b>196 392 061 622.5</b> |



# CHAPTER 12

HEALTH STATICAL  
INDICATORS,  
2006-2015 YEAR

## NUMBER OF BIRTH

| №         | Aimags and city        | 2006         | 2007         | 2008         | 2009         | 2010         | 2011         | 2012         | 2013         | 2014         | 2015         |
|-----------|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1         | Arkhangai              | 1556         | 1742         | 1989         | 2045         | 1946         | 2005         | 1973         | 2101         | 2170         | 2037         |
| 2         | Bayan-Ulgii            | 2405         | 2520         | 2647         | 2558         | 2459         | 2569         | 2568         | 2783         | 2801         | 2761         |
| 3         | Bayankhongor           | 1455         | 1725         | 2046         | 2047         | 1874         | 2098         | 2119         | 2308         | 2174         | 2125         |
| 4         | Bulgan                 | 730          | 814          | 942          | 1060         | 975          | 962          | 953          | 1023         | 999          | 985          |
| 5         | Govii-Altai            | 1168         | 1209         | 1365         | 1374         | 1303         | 1310         | 1373         | 1376         | 1265         | 1284         |
| 6         | Gobi-Sumber            | 262          | 286          | 304          | 361          | 379          | 352          | 443          | 478          | 488          | 442          |
| 7         | Darkhan-Uul            | 1603         | 1951         | 2163         | 2592         | 2469         | 2496         | 2609         | 2680         | 2843         | 2628         |
| 8         | Dornogovi              | 963          | 1119         | 1239         | 1337         | 1288         | 1348         | 1405         | 1502         | 1483         | 1534         |
| 9         | Dornod                 | 1363         | 1481         | 1796         | 1927         | 1842         | 1993         | 1923         | 1972         | 1982         | 1958         |
| 10        | Dundgovi               | 792          | 894          | 978          | 1085         | 864          | 766          | 811          | 890          | 947          | 996          |
| 11        | Zavkhan                | 1469         | 1553         | 1811         | 1878         | 1656         | 1383         | 1448         | 1501         | 1612         | 1628         |
| 12        | Orkhon                 | 1446         | 1875         | 2232         | 2489         | 2294         | 2570         | 2581         | 2891         | 2826         | 2680         |
| 13        | Uvurkhangai            | 2146         | 2424         | 2734         | 2942         | 2752         | 2511         | 2582         | 2779         | 2742         | 2741         |
| 14        | Umnugovi               | 790          | 908          | 1176         | 1280         | 1167         | 1213         | 1293         | 1536         | 1439         | 1509         |
| 15        | Sukhbaatar             | 868          | 945          | 1038         | 1192         | 1149         | 1288         | 1248         | 1217         | 1329         | 1395         |
| 16        | Selenge                | 1199         | 1518         | 1713         | 1848         | 1896         | 1859         | 1932         | 1924         | 2024         | 1945         |
| 17        | Tuv                    | 725          | 765          | 911          | 934          | 922          | 923          | 1126         | 1238         | 1325         | 1279         |
| 18        | Uvs                    | 1810         | 1792         | 2253         | 2379         | 1953         | 1964         | 2041         | 1994         | 2110         | 1996         |
| 19        | Khovd                  | 1835         | 2012         | 2240         | 2227         | 2076         | 2396         | 2346         | 2364         | 2306         | 2312         |
| 20        | Khuvsgul               | 2229         | 2513         | 3043         | 3149         | 2933         | 3108         | 3186         | 3297         | 3306         | 3119         |
| 21        | Khentii                | 1130         | 1304         | 1441         | 1560         | 1388         | 1483         | 1490         | 1611         | 1630         | 1633         |
| <b>22</b> | <b>Aimag average</b>   | <b>27944</b> | <b>31350</b> | <b>36061</b> | <b>38264</b> | <b>35585</b> | <b>36597</b> | <b>37450</b> | <b>39465</b> | <b>39801</b> | <b>38987</b> |
| 23        | Ulaanbaatar            | 19417        | 24284        | 27026        | 30280        | 30075        | 33731        | 37024        | 39906        | 41427        | 41447        |
| <b>24</b> | <b>Country average</b> | <b>47361</b> | <b>55634</b> | <b>63087</b> | <b>68544</b> | <b>65660</b> | <b>70328</b> | <b>74474</b> | <b>79371</b> | <b>81228</b> | <b>80434</b> |

## NUMBER OF LIVE BIRTH

| №  | Aimags and city        | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  |
|----|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1  | Arkhangai              | 1549  | 1741  | 1990  | 2049  | 1950  | 2013  | 1985  | 2115  | 2180  | 2051  |
| 2  | Bayan-Ulgii            | 2358  | 2486  | 2609  | 2518  | 2415  | 2546  | 2546  | 2762  | 2789  | 2770  |
| 3  | Bayankhongor           | 1460  | 1725  | 2043  | 2058  | 1884  | 2107  | 2124  | 2316  | 2183  | 2133  |
| 4  | Bulgan                 | 731   | 819   | 946   | 1068  | 978   | 964   | 962   | 1024  | 1008  | 991   |
| 5  | Govi-Altai             | 1164  | 1214  | 1358  | 1379  | 1303  | 1315  | 1370  | 1387  | 1265  | 1293  |
| 6  | Gobi-Sumber            | 260   | 285   | 304   | 360   | 377   | 354   | 443   | 479   | 491   | 446   |
| 7  | Darkhan-Uul            | 1614  | 1963  | 2173  | 2612  | 2477  | 2500  | 2634  | 2698  | 2855  | 2644  |
| 8  | Dornogovi              | 957   | 1131  | 1243  | 1332  | 1296  | 1355  | 1414  | 1509  | 1488  | 1549  |
| 9  | Dornod                 | 1372  | 1485  | 1797  | 1930  | 1847  | 1999  | 1922  | 1984  | 1984  | 1970  |
| 10 | Dundgovi               | 791   | 897   | 985   | 1093  | 867   | 764   | 817   | 890   | 948   | 1001  |
| 11 | Zavkhan                | 1466  | 1547  | 1804  | 1877  | 1651  | 1377  | 1452  | 1512  | 1615  | 1631  |
| 12 | Orkhon                 | 1444  | 1867  | 2243  | 2506  | 2306  | 2585  | 2589  | 2911  | 2831  | 2696  |
| 13 | Uvurkhangai            | 2153  | 2432  | 2734  | 2946  | 2752  | 2510  | 2590  | 2783  | 2757  | 2755  |
| 14 | Umnugovi               | 794   | 911   | 1180  | 1282  | 1178  | 1221  | 1301  | 1544  | 1441  | 1505  |
| 15 | Sukhbaatar             | 866   | 951   | 1039  | 1190  | 1160  | 1297  | 1259  | 1224  | 1330  | 1395  |
| 16 | Selenge                | 1199  | 1519  | 1711  | 1845  | 1909  | 1858  | 1940  | 1934  | 2029  | 1956  |
| 17 | Tuv                    | 721   | 766   | 919   | 932   | 927   | 923   | 1127  | 1240  | 1334  | 1274  |
| 18 | Uvs                    | 1808  | 1794  | 2262  | 2386  | 1946  | 1964  | 2045  | 1999  | 2127  | 2009  |
| 19 | Khovd                  | 1827  | 2020  | 2240  | 2227  | 2075  | 2391  | 2351  | 2372  | 2320  | 2313  |
| 20 | Khuvsgul               | 2218  | 2506  | 3054  | 3160  | 2932  | 3114  | 3197  | 3295  | 3317  | 3128  |
| 21 | Khentii                | 1125  | 1304  | 1445  | 1575  | 1386  | 1495  | 1496  | 1615  | 1637  | 1634  |
| 22 | <b>Aimag average</b>   | 27877 | 31363 | 36079 | 38325 | 35616 | 36652 | 37564 | 39593 | 39929 | 39144 |
| 23 | Ulaanbaatar            | 19499 | 24411 | 27183 | 30437 | 30273 | 33924 | 37214 | 40187 | 41786 | 41731 |
| 24 | <b>Country average</b> | 47376 | 55774 | 63262 | 68762 | 65889 | 70576 | 74778 | 79780 | 81715 | 80875 |

## MATERNAL MORTALITY, / PER 100 000 LIVE BIRTHS /

| No | Aimag and city         | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015 |
|----|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1  | Arkhangai              | 0.0   | 57.4  | 0.0   | 48.8  | 51.3  | 49.7  | 50.4  | 0.0   | 45.9  | 0.0  |
| 2  | Bayan-Ulgii            | 127.2 | 241.4 | 76.7  | 198.6 | 41.4  | 78.6  | 117.8 | 144.8 | 35.9  | 72.2 |
| 3  | Bayankhongor           | 68.5  | 173.9 | 48.9  | 97.2  | 0.0   | 0.0   | 188.3 | 0.0   | 137.4 | 46.9 |
| 4  | Bulgan                 | 0.0   | 0.0   | 0.0   | 187.3 | 0.0   | 103.7 | 0.0   | 0.0   | 0.0   | 0.0  |
| 5  | Govii-Altai            | 171.8 | 411.9 | 0.0   | 72.5  | 76.7  | 76.0  | 0.0   | 0.0   | 0.0   | 0.0  |
| 6  | Gobi-Sumber            | 384.6 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| 7  | Darkhan-Uul            | 62.0  | 50.9  | 46.0  | 0.0   | 0.0   | 0.0   | 38.0  | 37.1  | 0.0   | 0.0  |
| 8  | Dornogovi              | 104.5 | 0.0   | 80.5  | 0.0   | 0.0   | 0.0   | 0.0   | 66.3  | 0.0   | 0.0  |
| 9  | Dornod                 | 218.7 | 67.3  | 55.6  | 0.0   | 0.0   | 50.0  | 52.0  | 0.0   | 0.0   | 0.0  |
| 10 | Dundgovi               | 0.0   | 111.5 | 101.5 | 91.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| 11 | Zavkhan                | 68.2  | 64.6  | 110.9 | 159.8 | 60.6  | 72.6  | 206.6 | 66.1  | 0.0   | 0.0  |
| 12 | Orkhon                 | 69.3  | 107.1 | 0.0   | 39.9  | 86.7  | 38.7  | 38.6  | 0.0   | 35.3  | 0.0  |
| 13 | Uvurkhangai            | 0.0   | 123.4 | 36.6  | 67.9  | 0.0   | 159.4 | 38.6  | 35.9  | 0.0   | 36.3 |
| 14 | Umnugovi               | 0.0   | 329.3 | 0.0   | 78.0  | 169.8 | 0.0   | 0.0   | 0.0   | 69.4  | 66.4 |
| 15 | Sukhbaatar             | 115.5 | 0.0   | 0.0   | 168.1 | 0.0   | 77.1  | 79.4  | 0.0   | 0.0   | 0.0  |
| 16 | Selenge                | 83.4  | 0.0   | 58.4  | 54.2  | 52.4  | 107.6 | 51.5  | 0.0   | 0.0   | 51.1 |
| 17 | Tuv                    | 0.0   | 0.0   | 0.0   | 321.9 | 0.0   | 0.0   | 177.5 | 0.0   | 0.0   | 78.5 |
| 18 | Uvs                    | 55.3  | 55.7  | 44.2  | 0.0   | 205.5 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  |
| 19 | Khovd                  | 54.7  | 99.0  | 44.6  | 89.8  | 96.4  | 83.6  | 0.0   | 84.3  | 86.2  | 0.0  |
| 20 | Khuvsgul               | 0.0   | 39.9  | 32.7  | 94.9  | 34.1  | 64.2  | 31.3  | 91.0  | 30.1  | 32.0 |
| 21 | Khentii                | 88.9  | 76.7  | 138.4 | 127.0 | 0.0   | 0.0   | 133.7 | 0.0   | 0.0   | 61.2 |
| 22 | <b>Aimag average</b>   | 68.2  | 102.0 | 44.3  | 83.5  | 44.9  | 51.8  | 58.6  | 32.8  | 25.0  | 23.0 |
| 23 | Ulaanbaatar            | 71.8  | 73.7  | 55.2  | 78.9  | 46.2  | 44.2  | 43.0  | 52.3  | 35.9  | 28.8 |
| 24 | <b>Country average</b> | 69.7  | 89.6  | 49.0  | 81.4  | 45.5  | 48.2  | 50.8  | 42.6  | 30.6  | 26.0 |

## CHILD MORTALITY, / PER 1000 LIVE BIRTHS /

| №  | Aimags and city        | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----|------------------------|------|------|------|------|------|------|------|------|------|------|
| 1  | Arkhangai              | 16.8 | 17.8 | 28.6 | 25.9 | 26.2 | 16.4 | 19.6 | 18.4 | 13.3 | 14.1 |
| 2  | Bayan-Ulgii            | 17.4 | 18.5 | 17.6 | 27.0 | 22.8 | 24.7 | 23.2 | 17.4 | 23.7 | 24.9 |
| 3  | Bayankhongor           | 30.1 | 20.9 | 26.9 | 22.8 | 26.5 | 19.5 | 14.1 | 18.1 | 15.1 | 14.1 |
| 4  | Bulgan                 | 16.4 | 22.0 | 13.7 | 18.7 | 20.4 | 11.4 | 18.7 | 17.6 | 20.8 | 17.2 |
| 5  | Govi-Altai             | 20.6 | 30.5 | 25.8 | 26.8 | 20.7 | 24.3 | 20.4 | 25.2 | 24.5 | 13.1 |
| 6  | Gobi-Sumber            | 23.1 | 3.5  | 29.6 | 22.2 | 2.7  | 8.5  | 11.3 | 14.6 | 6.1  | 13.5 |
| 7  | Darkhan-Uul            | 13.6 | 8.2  | 10.6 | 9.6  | 8.1  | 9.2  | 8.0  | 8.2  | 7.0  | 10.2 |
| 8  | Dornogovi              | 26.1 | 23.0 | 30.6 | 21.8 | 24.7 | 13.3 | 16.3 | 15.2 | 13.4 | 12.3 |
| 9  | Dornod                 | 21.1 | 18.9 | 16.7 | 17.1 | 20.0 | 20.0 | 14.6 | 13.1 | 9.6  | 7.6  |
| 10 | Dundgovi               | 15.2 | 14.5 | 14.2 | 20.1 | 21.9 | 13.1 | 11.0 | 10.1 | 16.9 | 7.0  |
| 11 | Zavkhan                | 21.1 | 19.4 | 20.5 | 22.9 | 26.7 | 22.5 | 22.7 | 17.9 | 23.5 | 25.8 |
| 12 | Orkhon                 | 18.0 | 16.1 | 17.8 | 15.6 | 14.7 | 13.5 | 14.7 | 11.3 | 14.5 | 12.2 |
| 13 | Uvurkhangai            | 23.2 | 28.4 | 31.5 | 23.1 | 28.3 | 27.1 | 23.2 | 14.7 | 12.7 | 14.2 |
| 14 | Umnugovi               | 27.7 | 22.0 | 23.7 | 21.1 | 22.1 | 19.7 | 16.9 | 16.8 | 20.1 | 16.6 |
| 15 | Sukhbaatar             | 19.6 | 20.0 | 23.1 | 18.5 | 21.6 | 18.5 | 22.2 | 15.5 | 20.3 | 18.6 |
| 16 | Selenge                | 15.0 | 9.2  | 7.6  | 14.1 | 8.4  | 5.4  | 6.7  | 7.8  | 6.4  | 8.2  |
| 17 | Tuv                    | 12.5 | 5.2  | 7.6  | 18.2 | 25.9 | 27.1 | 19.5 | 13.7 | 16.5 | 13.3 |
| 18 | Uvs                    | 21.6 | 35.1 | 22.1 | 30.6 | 33.4 | 23.4 | 15.2 | 17.0 | 18.8 | 20.4 |
| 19 | Khovd                  | 16.4 | 18.8 | 16.1 | 18.9 | 24.1 | 18.4 | 18.3 | 14.3 | 19.4 | 20.8 |
| 20 | Khuvsgul               | 27.1 | 29.5 | 27.2 | 29.4 | 29.7 | 29.9 | 26.0 | 23.1 | 16.0 | 22.4 |
| 21 | Khentii                | 20.4 | 17.6 | 27.7 | 29.2 | 19.5 | 18.7 | 16.0 | 18.0 | 15.3 | 17.1 |
| 22 | <b>Aimag average</b>   | 20.3 | 20.3 | 21.2 | 21.9 | 22.1 | 19.2 | 17.5 | 15.7 | 15.7 | 15.9 |
| 23 | Ulaanbaatar            | 19.0 | 14.7 | 17.5 | 18.0 | 16.1 | 13.3 | 13.1 | 13.6 | 15.0 | 14.7 |
| 24 | <b>Country average</b> | 19.8 | 17.8 | 19.6 | 20.2 | 19.4 | 16.3 | 15.3 | 14.6 | 15.3 | 15.3 |

## PERINATAL MORTALITY, / PER 1000 BIRTHS /

| №  | Aimag and city         | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----|------------------------|------|------|------|------|------|------|------|------|------|------|
| 1  | Arkhangai              | 16.6 | 15.9 | 18.5 | 17.0 | 20.4 | 13.8 | 12.5 | 15.1 | 13.2 | 9.7  |
| 2  | Bayan-Ulgii            | 35.0 | 36.0 | 29.6 | 28.3 | 30.7 | 33.9 | 23.5 | 22.8 | 18.5 | 16.9 |
| 3  | Bayankhongor           | 25.1 | 18.4 | 24.7 | 16.9 | 20.0 | 16.0 | 13.1 | 15.8 | 17.7 | 14.0 |
| 4  | Bulgan                 | 13.6 | 20.6 | 7.4  | 12.1 | 8.2  | 16.4 | 14.5 | 12.6 | 13.8 | 16.1 |
| 5  | Govii-Altai            | 22.0 | 20.5 | 27.6 | 16.5 | 18.3 | 21.1 | 18.8 | 18.0 | 22.7 | 9.2  |
| 6  | Gobi-Sumber            | 19.1 | 7.0  | 19.5 | 11.1 | 7.9  | 5.6  | 6.8  | 12.5 | 8.1  | 8.9  |
| 7  | Darkhan-Uul            | 6.8  | 3.1  | 6.9  | 8.8  | 8.4  | 9.5  | 7.2  | 9.6  | 7.7  | 9.4  |
| 8  | Dornogovi              | 23.8 | 20.2 | 28.7 | 25.3 | 20.7 | 11.0 | 8.5  | 15.2 | 10.7 | 9.7  |
| 9  | Dornod                 | 19.6 | 15.4 | 18.2 | 17.5 | 15.6 | 14.9 | 16.5 | 12.0 | 13.5 | 8.6  |
| 10 | Dundgovi               | 11.3 | 11.1 | 7.1  | 12.8 | 13.8 | 16.9 | 12.2 | 8.9  | 13.6 | 4.0  |
| 11 | Zavkhan                | 23.6 | 19.2 | 19.7 | 16.9 | 22.2 | 28.0 | 23.2 | 12.5 | 14.8 | 17.6 |
| 12 | Orkhon                 | 17.9 | 21.2 | 16.8 | 13.1 | 16.4 | 16.5 | 14.2 | 14.0 | 14.4 | 13.3 |
| 13 | Uvurkhangai            | 16.1 | 22.9 | 21.4 | 17.2 | 19.4 | 21.7 | 19.6 | 12.9 | 12.6 | 11.6 |
| 14 | Umnugovi               | 12.6 | 12.0 | 16.0 | 15.5 | 19.4 | 13.1 | 14.6 | 16.1 | 18.6 | 17.1 |
| 15 | Sukhbaatar             | 21.7 | 13.6 | 18.1 | 20.0 | 12.0 | 16.8 | 13.5 | 10.6 | 13.4 | 16.4 |
| 16 | Selenge                | 14.1 | 11.8 | 8.1  | 11.3 | 9.4  | 8.6  | 9.8  | 7.2  | 9.3  | 8.1  |
| 17 | Tuv                    | 17.8 | 10.4 | 14.0 | 18.1 | 17.2 | 21.5 | 14.1 | 16.0 | 9.7  | 18.6 |
| 18 | Uvs                    | 22.4 | 24.2 | 17.5 | 18.3 | 25.9 | 18.2 | 17.9 | 16.4 | 15.9 | 14.9 |
| 19 | Khovd                  | 21.1 | 13.3 | 17.3 | 18.2 | 22.5 | 18.6 | 16.8 | 16.7 | 15.5 | 19.3 |
| 20 | Khuvsgul               | 20.1 | 20.9 | 17.6 | 18.5 | 18.6 | 17.2 | 19.3 | 17.1 | 17.3 | 18.1 |
| 21 | Khentii                | 17.6 | 13.7 | 19.2 | 17.1 | 17.2 | 12.7 | 12.6 | 12.3 | 15.8 | 12.8 |
| 22 | <b>Aimag average</b>   | 19.8 | 18.2 | 18.3 | 17.0 | 18.2 | 17.4 | 15.4 | 14.4 | 14.3 | 13.4 |
| 23 | Ulaanbaatar            | 19.0 | 14.1 | 16.2 | 16.8 | 15.4 | 13.2 | 14.4 | 14.3 | 14.7 | 15.6 |
| 24 | <b>Country average</b> | 19.5 | 16.4 | 17.4 | 16.9 | 16.9 | 15.4 | 14.9 | 14.4 | 14.5 | 14.6 |

## UNDER FIVE MORTALITY RATE, / PER 1000 LIVE BIRTHS/

| №  | Aimag and city         | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----|------------------------|------|------|------|------|------|------|------|------|------|------|
| 1  | Arkhangai              | 21.9 | 20.1 | 31.7 | 28.8 | 31.3 | 20.9 | 23.7 | 22.7 | 18.3 | 18.0 |
| 2  | Bayan-Ulgii            | 24.6 | 26.1 | 23.8 | 36.9 | 33.1 | 29.1 | 27.9 | 23.9 | 26.5 | 31.4 |
| 3  | Bayankhongor           | 38.4 | 23.8 | 28.9 | 26.7 | 32.9 | 25.6 | 17.9 | 20.7 | 19.7 | 18.3 |
| 4  | Bulgan                 | 21.9 | 28.1 | 13.7 | 21.5 | 24.5 | 13.5 | 19.8 | 20.5 | 23.8 | 19.2 |
| 5  | Govi-Altai             | 25.8 | 36.2 | 33.1 | 35.5 | 26.9 | 25.9 | 22.6 | 30.3 | 26.9 | 15.5 |
| 6  | Gobi-Sumber            | 23.1 | 17.5 | 32.9 | 27.8 | 5.3  | 8.5  | 11.3 | 14.6 | 6.1  | 15.7 |
| 7  | Darkhan-Uul            | 17.3 | 10.7 | 14.3 | 11.9 | 11.7 | 12.8 | 11.0 | 10.7 | 8.4  | 12.1 |
| 8  | Dornogovi              | 30.3 | 25.6 | 33.8 | 24.0 | 28.5 | 19.2 | 18.4 | 21.9 | 19.5 | 12.3 |
| 9  | Dornod                 | 27.0 | 26.9 | 22.3 | 20.2 | 23.8 | 25.5 | 16.6 | 19.2 | 13.1 | 10.2 |
| 10 | Dundgovi               | 19.0 | 15.6 | 16.2 | 22.9 | 30.0 | 15.7 | 12.2 | 14.6 | 20.0 | 10.0 |
| 11 | Zavkhan                | 24.6 | 23.9 | 25.5 | 24.5 | 32.7 | 26.1 | 28.2 | 21.2 | 26.6 | 28.2 |
| 12 | Orkhon                 | 22.2 | 17.7 | 18.3 | 16.8 | 18.2 | 15.9 | 16.6 | 13.4 | 16.2 | 15.2 |
| 13 | Uvurkhangai            | 26.5 | 31.3 | 35.1 | 25.8 | 33.1 | 33.1 | 27.0 | 19.4 | 16.0 | 18.9 |
| 14 | Umnugovi               | 30.2 | 27.4 | 28.8 | 23.4 | 26.3 | 22.9 | 23.1 | 19.4 | 26.4 | 19.9 |
| 15 | Sukhbaatar             | 24.2 | 27.3 | 26.0 | 22.7 | 25.9 | 24.7 | 26.2 | 21.2 | 24.8 | 22.9 |
| 16 | Selenge                | 24.2 | 14.5 | 12.9 | 16.3 | 13.1 | 9.7  | 10.3 | 11.4 | 8.9  | 11.8 |
| 17 | Tuv                    | 16.6 | 7.8  | 9.8  | 20.4 | 30.2 | 32.5 | 29.3 | 14.5 | 17.2 | 17.3 |
| 18 | Uvs                    | 26.5 | 40.1 | 26.5 | 36.5 | 43.2 | 27.5 | 19.6 | 20.0 | 23.0 | 23.4 |
| 19 | Khovd                  | 21.9 | 23.3 | 21.0 | 25.1 | 29.9 | 22.6 | 22.5 | 17.7 | 24.1 | 23.3 |
| 20 | Khuvsgul               | 35.2 | 33.9 | 31.8 | 33.9 | 37.9 | 32.8 | 29.1 | 28.8 | 19.3 | 27.5 |
| 21 | Khentii                | 24.0 | 20.7 | 37.4 | 31.7 | 28.1 | 27.4 | 23.4 | 23.5 | 18.3 | 18.4 |
| 22 | <b>Aimag average</b>   | 25.6 | 24.6 | 25.3 | 25.7 | 28.0 | 23.5 | 21.3 | 19.7 | 19.0 | 19.2 |
| 23 | Ulaanbaatar            | 21.8 | 18.8 | 20.8 | 21.0 | 20.6 | 16.2 | 16.0 | 16.3 | 17.8 | 17.3 |
| 24 | <b>Country average</b> | 24.0 | 22.1 | 23.4 | 23.6 | 24.6 | 20.0 | 18.7 | 18.0 | 18.4 | 18.3 |

## COMMUNICABLE DISEASE, / PER 10000 POPULATION /

| No | Aimags and city        | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  |
|----|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1  | Arkhangai              | 65.3  | 104.8 | 89.0  | 61.0  | 68.1  | 127.4 | 89.7  | 82.0  | 62.6  | 64.1  |
| 2  | Bayan-Ulgii            | 40.4  | 48.0  | 112.5 | 86.1  | 72.1  | 53.0  | 33.4  | 45.5  | 40.7  | 65.5  |
| 3  | Bayankhongor           | 102.0 | 183.2 | 207.0 | 266.4 | 339.6 | 272.0 | 161.0 | 126.4 | 142.5 | 183.1 |
| 4  | Bulgan                 | 106.4 | 149.9 | 226.6 | 191.0 | 135.2 | 207.4 | 161.6 | 90.9  | 73.4  | 68.5  |
| 5  | Govi-Altai             | 77.6  | 159.8 | 174.8 | 72.3  | 161.4 | 125.0 | 80.8  | 49.2  | 88.1  | 75.8  |
| 6  | Gobi-Sumber            | 185.7 | 244.4 | 225.0 | 113.9 | 206.2 | 213.4 | 140.6 | 137.2 | 106.1 | 74.5  |
| 7  | Darkhan-Uul            | 131.6 | 199.6 | 206.7 | 176.8 | 144.8 | 153.9 | 114.1 | 96.2  | 101.0 | 77.3  |
| 8  | Dornogovi              | 167.9 | 271.5 | 205.0 | 190.7 | 238.6 | 209.3 | 166.9 | 172.5 | 134.6 | 139.8 |
| 9  | Dornod                 | 335.7 | 226.4 | 298.1 | 281.4 | 257.9 | 332.8 | 315.8 | 421.7 | 334.5 | 337.8 |
| 10 | Dundgovi               | 109.9 | 103.9 | 54.2  | 44.4  | 75.8  | 171.3 | 116.0 | 80.7  | 91.0  | 125.3 |
| 11 | Zavkhan                | 75.8  | 92.0  | 96.4  | 81.3  | 96.9  | 143.1 | 108.0 | 107.9 | 66.7  | 75.2  |
| 12 | Orkhon                 | 165.5 | 171.2 | 174.7 | 148.4 | 132.4 | 147.9 | 107.2 | 74.0  | 68.5  | 104.2 |
| 13 | Uvurkhangai            | 141.1 | 224.2 | 178.1 | 140.1 | 103.0 | 128.7 | 94.6  | 105.5 | 57.7  | 81.2  |
| 14 | Umnugovi               | 60.3  | 184.8 | 119.4 | 64.5  | 60.6  | 166.7 | 84.3  | 91.8  | 82.7  | 155.9 |
| 15 | Sukhbaatar             | 127.5 | 101.9 | 237.0 | 164.5 | 145.1 | 155.8 | 146.9 | 182.2 | 102.4 | 142.5 |
| 16 | Selenge                | 111.9 | 138.7 | 127.8 | 123.2 | 99.7  | 115.2 | 92.9  | 83.7  | 81.7  | 84.9  |
| 17 | Tuv                    | 108.9 | 77.4  | 98.4  | 53.6  | 70.7  | 116.6 | 100.9 | 81.0  | 57.0  | 136.6 |
| 18 | Uvs                    | 80.5  | 91.0  | 113.2 | 107.9 | 108.8 | 167.3 | 86.9  | 63.7  | 64.8  | 109.8 |
| 19 | Khovd                  | 78.4  | 45.9  | 124.6 | 88.0  | 72.4  | 114.0 | 175.2 | 93.3  | 71.8  | 102.7 |
| 20 | Khuvsgul               | 123.8 | 124.6 | 229.2 | 220.5 | 192.1 | 150.3 | 115.4 | 144.9 | 120.1 | 151.2 |
| 21 | Khentii                | 104.1 | 307.7 | 200.7 | 134.8 | 169.5 | 193.8 | 148.3 | 132.1 | 98.8  | 142.0 |
| 22 | <b>Aimag average</b>   | 115.5 | 147.3 | 164.0 | 137.3 | 136.9 | 158.3 | 121.7 | 114.3 | 95.4  | 118.7 |
| 23 | Ulaanbaatar            | 202.8 | 228.1 | 228.1 | 205.5 | 216.1 | 179.7 | 204.2 | 158.0 | 136.0 | 295.9 |
| 24 | <b>Country average</b> | 148.9 | 178.7 | 239.6 | 164.8 | 169.4 | 168.0 | 159.5 | 132.7 | 114.4 | 200.5 |

## HEALTH WORKERS, / PER 10 000 POPULATION /

| №  | Aimags and city        | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  |
|----|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1  | Arkhangai              | 99.6  | 107.4 | 111.7 | 114.0 | 121.6 | 135.1 | 134.8 | 137.3 | 134.3 | 135.6 |
| 2  | Bayan-Ulgii            | 94.2  | 102.8 | 98.0  | 99.2  | 103.3 | 118.4 | 118.4 | 124.1 | 123.9 | 122.1 |
| 3  | Bayankhongor           | 114.3 | 120.4 | 122.8 | 120.9 | 120.5 | 140.9 | 146.2 | 151.9 | 146.5 | 139.8 |
| 4  | Bulgan                 | 119.9 | 129.0 | 129.1 | 126.7 | 123.9 | 145.6 | 147.4 | 141.4 | 138.1 | 127.5 |
| 5  | Govi-Altai             | 147.6 | 148.3 | 162.7 | 167.6 | 174.5 | 194.5 | 196.1 | 203.5 | 195.9 | 190.5 |
| 6  | Gobi-Sumber            | 148.7 | 154.8 | 167.6 | 168.1 | 167.0 | 172.9 | 169.7 | 175.2 | 168.5 | 160.2 |
| 7  | Darkhan-Uul            | 130.9 | 128.0 | 131.1 | 129.9 | 126.3 | 128.0 | 133.2 | 131.5 | 131.8 | 136.7 |
| 8  | Dornogovi              | 137.3 | 139.8 | 147.1 | 141.9 | 145.3 | 145.8 | 152.3 | 157.0 | 149.9 | 150.6 |
| 9  | Dornod                 | 120.0 | 118.2 | 124.1 | 129.6 | 128.8 | 136.8 | 142.3 | 142.4 | 139.6 | 136.3 |
| 10 | Dundgovi               | 118.9 | 121.3 | 129.9 | 139.1 | 140.2 | 165.6 | 182.8 | 185.3 | 169.9 | 157.9 |
| 11 | Zavkhan                | 119.8 | 127.7 | 131.6 | 136.0 | 138.9 | 169.0 | 176.3 | 182.8 | 177.4 | 168.1 |
| 12 | Orkhon                 | 123.0 | 114.9 | 130.2 | 121.6 | 138.0 | 126.2 | 134.1 | 137.5 | 135.3 | 133.0 |
| 13 | Uvurkhangai            | 95.6  | 98.0  | 98.2  | 101.5 | 104.1 | 121.9 | 123.3 | 126.4 | 125.0 | 123.6 |
| 14 | Umnugovi               | 107.9 | 112.1 | 123.3 | 124.5 | 125.4 | 106.2 | 108.7 | 110.2 | 118.7 | 128.1 |
| 15 | Sukhbaatar             | 119.4 | 124.6 | 128.7 | 136.3 | 138.8 | 148.8 | 150.0 | 151.2 | 136.7 | 136.2 |
| 16 | Selenge                | 106.8 | 108.7 | 109.1 | 108.6 | 107.7 | 110.2 | 107.5 | 116.7 | 112.6 | 112.6 |
| 17 | Tuv                    | 106.9 | 110.9 | 120.5 | 120.0 | 118.6 | 132.5 | 135.4 | 141.6 | 145.3 | 135.2 |
| 18 | Uvs                    | 111.6 | 118.2 | 118.7 | 121.8 | 124.6 | 134.3 | 138.4 | 146.0 | 148.5 | 146.4 |
| 19 | Khovd                  | 102.6 | 101.7 | 107.4 | 109.4 | 113.3 | 130.0 | 135.9 | 136.4 | 134.9 | 134.1 |
| 20 | Khovsgul               | 97.4  | 98.6  | 110.8 | 110.9 | 111.9 | 120.8 | 125.8 | 125.3 | 122.6 | 119.7 |
| 21 | Khentii                | 129.8 | 137.8 | 138.0 | 135.2 | 134.9 | 146.2 | 147.1 | 147.5 | 146.2 | 140.6 |
| 22 | <b>Aimag average</b>   | 113.1 | 116.4 | 121.2 | 122.1 | 124.4 | 134.7 | 138.1 | 141.1 | 138.7 | 136.2 |
| 23 | Ulaanbaatar            | 164.7 | 167.3 | 175.6 | 173.5 | 171.2 | 163.1 | 172.0 | 172.2 | 174.9 | 181.2 |
| 24 | <b>Country average</b> | 132.7 | 136.1 | 142.7 | 142.8 | 143.6 | 147.6 | 153.6 | 155.5 | 155.4 | 156.7 |

## PHYSICIANS, / PER 10 000 POPULATION /

| No | Aimags and city        | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----|------------------------|------|------|------|------|------|------|------|------|------|------|
| 1  | Arkhangai              | 13.9 | 14.7 | 15.8 | 13.5 | 14.8 | 16.9 | 17.3 | 17.7 | 17.9 | 18.0 |
| 2  | Bayan-Ulgii            | 14.1 | 15.0 | 14.0 | 13.0 | 14.2 | 16.4 | 16.2 | 16.3 | 16.6 | 17.0 |
| 3  | Bayankhongor           | 12.1 | 13.5 | 14.5 | 12.2 | 13.0 | 16.4 | 17.3 | 18.7 | 20.4 | 19.0 |
| 4  | Bulgan                 | 17.6 | 17.8 | 18.0 | 15.2 | 14.6 | 18.7 | 19.9 | 18.5 | 18.4 | 18.4 |
| 5  | Govii-Altai            | 17.6 | 17.9 | 18.8 | 19.3 | 21.1 | 25.9 | 27.9 | 29.3 | 29.3 | 30.5 |
| 6  | Gobi-Sumber            | 30.7 | 31.9 | 33.8 | 31.3 | 28.8 | 33.1 | 34.1 | 38.5 | 37.6 | 34.4 |
| 7  | Darkhan-Uul            | 25.2 | 24.7 | 27.0 | 25.9 | 25.4 | 25.3 | 25.6 | 25.4 | 25.3 | 26.2 |
| 8  | Dornogovi              | 28.6 | 28.4 | 33.7 | 30.8 | 31.2 | 30.1 | 30.1 | 33.1 | 31.0 | 32.5 |
| 9  | Dornod                 | 17.8 | 18.0 | 18.2 | 18.7 | 18.2 | 19.7 | 22.5 | 24.1 | 23.2 | 22.3 |
| 10 | Dundgovi               | 16.0 | 17.9 | 19.2 | 19.0 | 18.7 | 22.0 | 26.2 | 28.2 | 27.2 | 27.7 |
| 11 | Zavkhan                | 13.1 | 14.3 | 15.7 | 14.8 | 15.4 | 19.8 | 22.2 | 23.2 | 22.8 | 23.1 |
| 12 | Orkhon                 | 29.9 | 28.8 | 31.1 | 27.1 | 29.1 | 27.6 | 27.9 | 28.7 | 27.5 | 27.4 |
| 13 | Uvurkhangai            | 15.1 | 16.6 | 16.0 | 14.8 | 15.0 | 17.8 | 19.1 | 20.9 | 20.3 | 22.0 |
| 14 | Umnugovi               | 19.2 | 20.3 | 23.0 | 21.8 | 23.3 | 19.0 | 21.0 | 22.2 | 25.1 | 28.0 |
| 15 | Sukhbaatar             | 17.6 | 20.0 | 20.0 | 18.4 | 19.3 | 21.7 | 22.0 | 22.9 | 21.9 | 24.0 |
| 16 | Selenge                | 17.8 | 19.0 | 18.5 | 16.1 | 15.3 | 16.8 | 15.8 | 17.6 | 18.1 | 19.7 |
| 17 | Tuv                    | 14.6 | 14.9 | 16.0 | 14.9 | 15.4 | 18.0 | 18.4 | 20.8 | 20.9 | 20.9 |
| 18 | Uvs                    | 15.8 | 17.1 | 17.2 | 14.6 | 15.5 | 16.4 | 18.5 | 18.7 | 19.1 | 21.6 |
| 19 | Khovd                  | 14.5 | 14.1 | 14.0 | 13.9 | 16.7 | 19.3 | 21.7 | 21.2 | 22.2 | 23.5 |
| 20 | Khuvsgul               | 13.2 | 13.9 | 14.1 | 12.9 | 14.1 | 14.9 | 17.0 | 17.3 | 17.7 | 18.2 |
| 21 | Khentii                | 17.8 | 20.6 | 21.1 | 20.5 | 19.7 | 21.8 | 22.7 | 22.7 | 21.8 | 21.6 |
| 22 | <b>Aimag average</b>   | 17.2 | 18.1 | 18.8 | 17.4 | 18.0 | 20.0 | 21.1 | 22.0 | 22.0 | 22.6 |
| 23 | Ulaanbaatar            | 44.1 | 44.4 | 43.4 | 39.6 | 40.3 | 38.8 | 41.1 | 40.9 | 42.4 | 42.3 |
| 24 | <b>Country average</b> | 27.5 | 28.3 | 28.5 | 26.4 | 27.2 | 28.5 | 30.3 | 30.7 | 31.4 | 31.6 |

## NURSES, / PER 10 000 POPULATION /

| №  | Aimags and city        | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----|------------------------|------|------|------|------|------|------|------|------|------|------|
| 1  | Arkhangai              | 24.0 | 25.5 | 27.1 | 28.0 | 27.8 | 30.1 | 30.9 | 30.6 | 30.2 | 29.5 |
| 2  | Bayan-Ulgii            | 23.2 | 22.6 | 22.9 | 24.3 | 24.9 | 27.5 | 27.3 | 27.5 | 30.2 | 30.4 |
| 3  | Bayankhongor           | 26.4 | 27.6 | 29.3 | 28.8 | 29.1 | 33.1 | 35.3 | 36.2 | 36.8 | 35.0 |
| 4  | Bulgan                 | 29.2 | 29.5 | 30.3 | 30.1 | 29.7 | 36.4 | 36.4 | 35.4 | 35.8 | 32.9 |
| 5  | Govi-Altai             | 27.9 | 34.6 | 36.8 | 37.4 | 38.2 | 42.5 | 42.9 | 44.5 | 44.3 | 43.6 |
| 6  | Gobi-Sumber            | 35.8 | 38.6 | 45.6 | 40.5 | 37.8 | 39.0 | 41.2 | 38.5 | 42.1 | 37.4 |
| 7  | Darkhan-Uul            | 30.9 | 39.5 | 37.2 | 36.7 | 35.6 | 35.3 | 36.6 | 37.9 | 37.5 | 39.7 |
| 8  | Dornogovi              | 18.0 | 30.1 | 31.2 | 30.1 | 31.1 | 30.1 | 29.3 | 31.7 | 31.3 | 32.2 |
| 9  | Dornod                 | 27.7 | 30.5 | 30.9 | 30.8 | 31.4 | 34.5 | 34.3 | 36.3 | 36.5 | 35.6 |
| 10 | Dundgovi               | 27.4 | 29.4 | 29.3 | 30.7 | 32.0 | 36.1 | 38.1 | 39.7 | 37.0 | 35.6 |
| 11 | Zavkhan                | 24.9 | 26.3 | 28.3 | 31.0 | 28.9 | 34.6 | 37.6 | 39.5 | 38.7 | 39.2 |
| 12 | Orkhon                 | 32.5 | 37.0 | 37.9 | 38.9 | 38.1 | 34.5 | 35.5 | 35.2 | 36.2 | 36.3 |
| 13 | Uvurkhangai            | 21.6 | 22.7 | 23.3 | 23.7 | 24.5 | 28.1 | 28.7 | 28.7 | 29.1 | 28.7 |
| 14 | Umnugovi               | 23.1 | 26.2 | 28.3 | 25.8 | 24.1 | 22.1 | 24.4 | 23.1 | 26.8 | 27.9 |
| 15 | Sukhbaatar             | 27.4 | 27.8 | 27.4 | 30.4 | 29.1 | 30.4 | 31.8 | 32.5 | 36.7 | 36.6 |
| 16 | Selenge                | 28.2 | 27.0 | 26.0 | 27.3 | 26.0 | 26.6 | 25.9 | 29.3 | 26.9 | 27.5 |
| 17 | Tuv                    | 25.5 | 26.0 | 27.1 | 26.8 | 25.8 | 28.4 | 29.3 | 29.9 | 33.5 | 31.1 |
| 18 | Uvs                    | 27.0 | 29.2 | 32.2 | 30.5 | 31.2 | 33.0 | 31.5 | 36.3 | 36.2 | 34.4 |
| 19 | Khovd                  | 24.8 | 26.7 | 28.6 | 28.4 | 28.1 | 30.3 | 29.8 | 29.7 | 34.4 | 33.5 |
| 20 | Khovsgul               | 22.4 | 25.8 | 26.2 | 26.1 | 26.8 | 26.4 | 28.3 | 28.3 | 28.5 | 28.6 |
| 21 | Khentii                | 27.9 | 29.9 | 30.5 | 31.0 | 30.8 | 34.0 | 34.9 | 35.0 | 34.0 | 33.7 |
| 22 | <b>Aimag average</b>   | 26.0 | 28.4 | 29.2 | 29.5 | 29.4 | 31.2 | 32.0 | 32.8 | 33.5 | 33.1 |
| 23 | Ulaanbaatar            | 32.8 | 39.0 | 40.1 | 38.8 | 38.2 | 36.9 | 38.4 | 37.6 | 40.9 | 42.8 |
| 24 | <b>Country average</b> | 28.6 | 32.4 | 33.5 | 33.3 | 33.0 | 33.8 | 34.9 | 35.0 | 36.9 | 37.5 |

## NUMBER OF HOSPITAL BEDS, / PER 10 000 POPULATION /

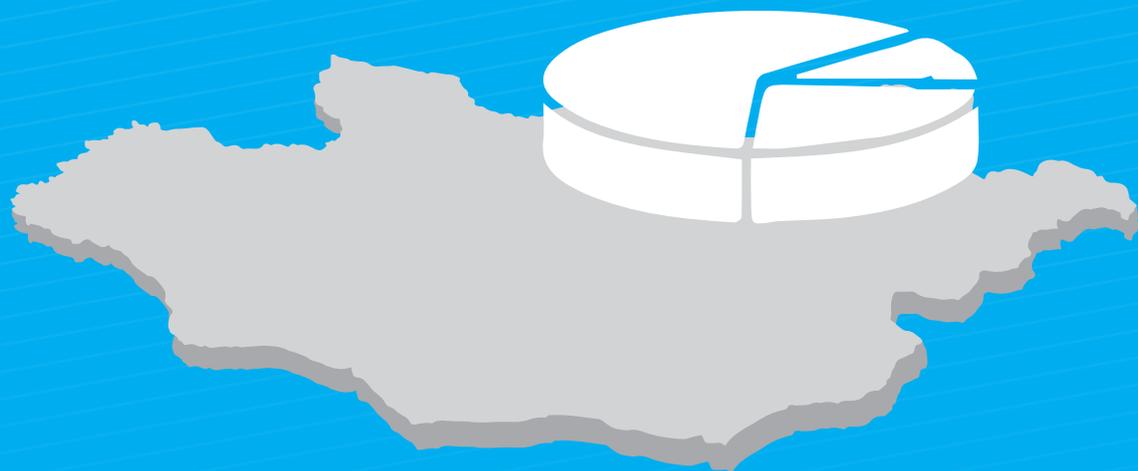
| No | Aimags and city        | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013  | 2014 | 2015 |
|----|------------------------|------|------|------|------|------|------|------|-------|------|------|
| 1  | Arkhangai              | 66.0 | 64.1 | 61.9 | 62.1 | 60.7 | 79.2 | 80.1 | 66.6  | 57.2 | 55.2 |
| 2  | Bayan-Ulgii            | 56.1 | 59.2 | 55.5 | 58.7 | 60.8 | 70.9 | 82.1 | 74.8  | 70.5 | 68.9 |
| 3  | Bayankhongor           | 65.2 | 63.1 | 60.9 | 58.5 | 58.5 | 65.3 | 64.6 | 66.5  | 57.8 | 57.1 |
| 4  | Bulgan                 | 57.9 | 60.7 | 57.1 | 60.0 | 59.2 | 72.3 | 71.8 | 73.0  | 57.7 | 55.1 |
| 5  | Govi-Altai             | 77.7 | 76.7 | 77.3 | 77.2 | 73.9 | 85.6 | 84.4 | 84.1  | 68.1 | 66.4 |
| 6  | Gobi-Sumber            | 96.8 | 93.4 | 96.8 | 81.0 | 78.3 | 77.3 | 74.6 | 85.9  | 55.7 | 64.5 |
| 7  | Darkhan-Uul            | 58.8 | 57.3 | 58.6 | 56.9 | 57.4 | 57.8 | 58.7 | 57.8  | 66.0 | 67.1 |
| 8  | Dornogovi              | 73.5 | 66.7 | 64.3 | 61.6 | 62.1 | 61.5 | 60.2 | 59.1  | 62.8 | 62.6 |
| 9  | Dornod                 | 66.1 | 65.3 | 64.9 | 65.2 | 65.2 | 70.1 | 69.3 | 70.7  | 58.3 | 56.4 |
| 10 | Dundgovi               | 70.9 | 71.1 | 72.2 | 62.1 | 63.4 | 78.0 | 78.9 | 79.3  | 55.6 | 51.1 |
| 11 | Zavkhan                | 85.4 | 88.2 | 84.0 | 66.6 | 68.9 | 96.6 | 93.4 | 104.3 | 66.4 | 71.2 |
| 12 | Orkhon                 | 52.1 | 47.4 | 53.7 | 50.9 | 50.9 | 51.4 | 55.2 | 58.3  | 62.7 | 61.4 |
| 13 | Uvurkhangai            | 53.0 | 57.0 | 54.3 | 54.4 | 54.1 | 62.3 | 61.9 | 62.9  | 63.7 | 60.7 |
| 14 | Umnugovi               | 64.4 | 63.6 | 63.0 | 55.9 | 56.0 | 46.6 | 45.2 | 43.9  | 69.1 | 73.5 |
| 15 | Sukhbaatar             | 60.8 | 61.3 | 58.5 | 57.7 | 57.6 | 61.4 | 60.7 | 60.3  | 66.0 | 62.7 |
| 16 | Selenge                | 62.9 | 71.5 | 62.2 | 63.0 | 61.5 | 63.3 | 65.2 | 60.4  | 59.3 | 58.4 |
| 17 | Tuv                    | 59.1 | 57.2 | 56.4 | 48.3 | 47.3 | 49.6 | 49.2 | 49.1  | 59.2 | 57.7 |
| 18 | Uvs                    | 73.6 | 67.6 | 67.8 | 60.3 | 60.9 | 65.4 | 65.1 | 66.4  | 68.8 | 69.0 |
| 19 | Khovd                  | 64.5 | 62.7 | 64.3 | 63.1 | 65.8 | 71.4 | 74.7 | 73.6  | 70.5 | 67.6 |
| 20 | Khuvsgul               | 59.8 | 59.1 | 59.4 | 48.9 | 49.7 | 54.4 | 52.9 | 56.7  | 54.8 | 60.2 |
| 21 | Khentii                | 66.5 | 64.2 | 61.9 | 60.9 | 60.6 | 65.6 | 64.8 | 64.3  | 58.4 | 60.2 |
| 22 | <b>Aimag average</b>   | 64.1 | 63.8 | 62.5 | 59.1 | 59.2 | 65.3 | 65.9 | 65.5  | 62.4 | 62.1 |
| 23 | Ulaanbaatar            | 82.5 | 78.6 | 76.4 | 74.8 | 72.3 | 71.5 | 72.6 | 72.0  | 77.6 | 83.2 |
| 24 | <b>Country average</b> | 71.1 | 69.5 | 68.0 | 65.4 | 64.6 | 68.1 | 69.0 | 68.5  | 69.4 | 71.8 |

## INPATIENT PATIENT, / PER 10 000 POPULATION /

| №  | Aimag and city         | 2006   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   |
|----|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1  | Arkhangai              | 2370.2 | 2487.8 | 2498.4 | 2428.0 | 2525.3 | 2585.3 | 2524.5 | 2410.6 | 2319.9 | 2052.7 |
| 2  | Bayan-Ulgii            | 2168.4 | 2300.3 | 2301.9 | 2256.9 | 2327.6 | 2665.0 | 2679.5 | 2775.1 | 2831.9 | 2793.4 |
| 3  | Bayankhongor           | 2330.1 | 2472.5 | 2334.2 | 2216.6 | 2272.8 | 2625.9 | 2518.9 | 2513.0 | 2481.0 | 2280.9 |
| 4  | Bulgan                 | 2041.3 | 2067.8 | 2097.6 | 2118.8 | 2048.1 | 2380.9 | 2420.3 | 2316.5 | 2075.7 | 1931.3 |
| 5  | Govi-Altai             | 2508.4 | 2456.2 | 2507.9 | 2291.1 | 2334.4 | 2767.8 | 2682.1 | 2713.1 | 2669.5 | 2562.2 |
| 6  | Gobi-Sumber            | 3230.7 | 3143.2 | 3263.1 | 3251.1 | 3434.7 | 3336.8 | 3213.7 | 3050.6 | 3399.9 | 2804.2 |
| 7  | Darkhan-Uul            | 2056.9 | 2085.5 | 2284.0 | 2336.6 | 2525.1 | 2409.5 | 2401.9 | 2465.0 | 2891.5 | 2818.1 |
| 8  | Dornogovi              | 2326.1 | 2379.0 | 2381.6 | 2236.8 | 2345.6 | 2279.4 | 2184.2 | 2074.1 | 2220.0 | 2103.9 |
| 9  | Dornod                 | 2121.4 | 2096.2 | 2290.3 | 2293.1 | 2214.0 | 2489.7 | 2473.0 | 2400.5 | 2327.0 | 2238.1 |
| 10 | Dundgovi               | 2081.3 | 2121.0 | 2260.9 | 2232.6 | 2269.5 | 2634.5 | 2879.8 | 2736.1 | 2662.7 | 2271.0 |
| 11 | Zavkhan                | 2155.0 | 2206.9 | 2244.9 | 2296.9 | 2337.4 | 2771.3 | 2767.2 | 2668.9 | 2485.0 | 2339.3 |
| 12 | Orkhon                 | 1703.3 | 1731.7 | 1980.6 | 1935.7 | 2030.5 | 1956.4 | 2072.7 | 2070.8 | 2124.9 | 2073.9 |
| 13 | Uvurkhangai            | 1719.0 | 1920.5 | 1813.6 | 1842.1 | 1961.9 | 2073.4 | 2183.7 | 2162.0 | 2206.7 | 2076.2 |
| 14 | Umnugovi               | 2025.0 | 2177.7 | 2285.4 | 2143.6 | 1941.7 | 1593.1 | 1615.4 | 1620.7 | 1877.3 | 2008.9 |
| 15 | Sukhbaatar             | 2082.2 | 2232.6 | 2336.0 | 2354.7 | 2314.9 | 2444.3 | 2354.0 | 2306.2 | 2342.6 | 2167.6 |
| 16 | Selenge                | 2139.4 | 2288.3 | 2141.7 | 2126.6 | 2222.8 | 2222.2 | 2182.7 | 1959.7 | 2029.8 | 1935.6 |
| 17 | Tuv                    | 1738.3 | 1754.9 | 1866.8 | 1789.7 | 1760.5 | 1823.6 | 1789.4 | 1746.8 | 1812.8 | 1615.5 |
| 18 | Uvs                    | 2434.7 | 2284.0 | 2576.9 | 2384.6 | 2467.4 | 2724.0 | 2617.2 | 2654.7 | 2663.9 | 2401.1 |
| 19 | Khovd                  | 2367.9 | 2269.7 | 2458.7 | 2530.4 | 2523.6 | 2714.6 | 2765.2 | 2921.4 | 2958.2 | 2773.8 |
| 20 | Khuvsgul               | 2074.7 | 2117.0 | 2176.7 | 2163.0 | 2159.8 | 2272.3 | 2285.8 | 2246.6 | 2200.2 | 2149.3 |
| 21 | Khentii                | 2139.8 | 2486.4 | 2382.9 | 2279.9 | 2304.1 | 2475.4 | 2475.8 | 2341.2 | 2376.5 | 2147.9 |
| 22 | <b>Aimag average</b>   | 2127.7 | 2191.5 | 2251.8 | 2210.2 | 2251.4 | 2380.5 | 2375.7 | 2339.6 | 2378.2 | 2242.0 |
| 23 | Ulaanbaatar            | 2596.5 | 2707.3 | 2628.0 | 2672.5 | 2769.4 | 2625.2 | 2712.8 | 2750.2 | 2872.1 | 3012.2 |
| 24 | <b>Country average</b> | 2307.3 | 2391.9 | 2400.6 | 2396.5 | 2464.0 | 2491.6 | 2530.4 | 2530.1 | 2606.1 | 2593.1 |

## OUTPATIENT MORBIDITY, / PER 10 000 POPULATION /

| №  | Aimags and city        | 2006   | 2007   | 2008   | 2009   | 2010    | 2011    | 2012   | 2013   | 2014   | 2015   |
|----|------------------------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 1  | Arkhangai              | 4844.7 | 5066.9 | 5624.6 | 6619.1 | 6460.4  | 7500.0  | 7766.6 | 6722.2 | 7996.4 | 7977.1 |
| 2  | Bayan-Ulgii            | 3490.9 | 3560.3 | 3455.3 | 3513.3 | 3493.6  | 4459.4  | 4541.3 | 4594.0 | 5155.5 | 4711.8 |
| 3  | Bayankhongor           | 4250.5 | 5047.8 | 6250.6 | 7379.4 | 8010.9  | 9872.4  | 8642.9 | 9389.0 | 9639.1 | 9644.5 |
| 4  | Bulgan                 | 3895.7 | 5059.3 | 4822.3 | 4403.3 | 4282.2  | 4318.8  | 4965.2 | 5888.1 | 7309.8 | 8042.1 |
| 5  | Govii-Altai            | 5820.9 | 5846.6 | 5841.1 | 5930.6 | 6967.4  | 7480.1  | 7262.7 | 6865.1 | 6592.9 | 5646.5 |
| 6  | Gobi-Sumber            | 7836.5 | 7369.5 | 8755.5 | 9228.1 | 13085.5 | 12232.4 | 9023.3 | 6396.6 | 6743.4 | 6415.0 |
| 7  | Darkhan-Uul            | 6397.2 | 6650.3 | 6877.8 | 7899.2 | 7337.7  | 7178.6  | 7246.7 | 7787.0 | 8668.3 | 7998.5 |
| 8  | Dornogovi              | 5454.3 | 4999.1 | 5311.6 | 5534.0 | 6078.2  | 6131.2  | 6239.6 | 6374.9 | 7232.2 | 7621.0 |
| 9  | Dornod                 | 4897.4 | 5290.8 | 6179.4 | 7281.9 | 6753.0  | 7306.1  | 7676.5 | 7430.7 | 6779.5 | 8009.9 |
| 10 | Dundgovi               | 3509.0 | 3605.0 | 3638.1 | 3656.6 | 3991.7  | 5200.0  | 5397.4 | 5974.4 | 6064.3 | 5392.2 |
| 11 | Zavkhan                | 3514.1 | 3499.9 | 3614.5 | 3760.7 | 3877.4  | 4592.0  | 6604.6 | 4686.1 | 5501.9 | 5559.1 |
| 12 | Orkhon                 | 3957.9 | 4135.7 | 4524.5 | 4560.7 | 4773.7  | 4358.2  | 4259.1 | 4180.8 | 4496.2 | 5813.7 |
| 13 | Uvurkhangai            | 4542.8 | 5802.6 | 6231.1 | 5944.1 | 6242.5  | 7051.8  | 6845.7 | 7152.3 | 6982.1 | 6691.5 |
| 14 | Umnugovi               | 4975.3 | 5910.4 | 6233.3 | 6845.6 | 8427.2  | 7143.1  | 7251.9 | 7597.4 | 8094.4 | 9652.7 |
| 15 | Sukhbaatar             | 3769.3 | 4396.1 | 5673.7 | 5234.2 | 5286.4  | 4889.7  | 5307.6 | 5561.6 | 5508.2 | 7632.5 |
| 16 | Selenge                | 4269.2 | 5065.6 | 4786.7 | 4168.8 | 5065.1  | 5326.1  | 4962.3 | 4874.9 | 4950.3 | 4543.7 |
| 17 | Tuv                    | 3093.9 | 3214.5 | 5504.8 | 7062.2 | 5948.7  | 5985.9  | 7104.8 | 6968.1 | 7923.9 | 8298.5 |
| 18 | Uvs                    | 5397.7 | 5555.5 | 5621.4 | 6059.3 | 5661.0  | 6420.5  | 6578.9 | 7223.3 | 6938.8 | 7439.0 |
| 19 | Khovd                  | 3905.1 | 3999.4 | 4153.0 | 3979.4 | 4235.9  | 7008.4  | 6696.0 | 5966.4 | 5459.2 | 5566.8 |
| 20 | Khuvsgul               | 3786.5 | 4951.5 | 5604.2 | 5524.1 | 5202.8  | 4499.3  | 6154.3 | 5866.9 | 5911.4 | 5542.4 |
| 21 | Khentii                | 4173.4 | 5092.0 | 5159.2 | 5429.0 | 5375.5  | 6646.0  | 6299.0 | 6199.3 | 6348.9 | 6016.5 |
| 22 | <b>Aimag average</b>   | 4390.5 | 4853.1 | 5291.5 | 5575.4 | 5695.7  | 6217.2  | 6417.6 | 6349.0 | 6658.7 | 6816.5 |
| 23 | Ulaanbaatar            | 4741.2 | 5610.8 | 6712.3 | 6601.0 | 6405.5  | 6151.2  | 6879.2 | 7949.9 | 8770.3 | 8644.1 |
| 24 | <b>Country average</b> | 4524.9 | 5147.5 | 5853.2 | 5988.7 | 5987.0  | 6187.2  | 6629.3 | 7091.8 | 7633.2 | 7649.5 |



# CHAPTER 13

NATIONAL HEALTH  
PROGRAMME

## NATIONAL REPRODUCTIVE HEALTH PROGRAMME

| Indicator   | Details   |
|---|---|
| Date and number of the Government Resolution which approved the programme | Resolution # 61 of 2012   |
| Duration  | 2012-2016   |
| Main objective  | To reach Millennium Development Goals providing equal and accessible reproductive health care and service to women, men and adolescents, and supporting sustainable population growth by means of improving reproductive health |

| Indicators  | Sources and quality indicators   | Changes as planned |                  |                        | 2015 оны хүрсэн түвшин |       |
|---|--|--------------------|------------------|------------------------|------------------------|-------|
|   |  | Baseline indicator | 2014             | 2016                   |                        |       |
| <b>1. Maternal health indicators</b>                  |  |                    |                  |                        |                        |       |
| 1.1   | Maternal mortality ratio per 100.000 live births   | HIS                | 45.5 (2010)      | 44.0                   | 40.0                   | 26.0  |
| 1.2   | Perinatal mortality per 1000 births  | HIS                | 16.9 (2010)      | 16.9                   | 16.9                   | 14.6  |
| 1.3   | Proportion of pregnant women receiving antenatal check-ups at least six times during pregnancy | HIS                | 93.7(2010)       | 99.0                   | 99.5                   | 84.2  |
| 1.4   | Percentage of institutional deliveries   | HIS                | 99.0 (2010)      | 99.3                   | 99.5                   | 99.6  |
| 1.5   | Average period of pregnancy for early antenatal care   | Survey             | 2.9 (2008)       | 2.6                    | 2.1                    | -     |
| 1.6   | Percentage of infectious diseases in maternal mortality structure                              | Survey             | 23.3(2010)       | 20.0                   | 18.0                   | -     |
| 1.7   | Sites for providing reproductive health care with 10 essential drugs                           | Survey             | 76.0(2010)       | 85.0                   | 90.0                   | -     |
| 1.8   | Percentage of eligible pregnant women who received the services of maternity waiting homes     | HIS                | 78.0( 2010)      | 80.0                   | 75.0                   | 76.3  |
| <b>2. Family planning indicator:</b>                  |  |                    |                  |                        |                        |       |
| 2.1   | Modern contraceptive methods' usage rate   | HIS                | 53.4 (2010)      | 54.0                   | 55.0                   | 54.1  |
| 2.2   | Percent of woman with an unmet need for family planning  | Survey             | 13.9(2008)       | 10.0                   | 7.5                    | -     |
| 2.3   | Percentage of clinics offering at least three modern methods of contraception                  | Survey             | 93.5(2010)       | 94.0                   | 95.0                   | -     |
| <b>3. Indicators for preventing unsafe abortions:</b> |  |                    |                  |                        |                        |       |
| 3.1   | Abortion rate per 1000 live births   | HIS                | 18.6(2010)       | 180                    | 160                    | 224.6 |
| 3.2   | Abortion rate of women of reproductive age (1000 women)  | HIS                | 14.8(2010)       | 12.0                   | 10.0                   | 22.0  |
| 3.3   | Number of organisation providing pre and post abortion advice                                  | Survey             | 72.2(2010)       | 90.0                   | 100.0                  | -     |
| <b>4. Indicators on STIs prevention and control:</b>  |  |                    |                  |                        |                        |       |
| 4.1   | Percentage of 15-24 years olds used condoms at the last sexual intercourse                     | Survey             | 58.6(2007)       | 63                     | 65                     | -     |
| 4.2   | Percentage of 15-24 years olds who knew how STIs spread  | Survey             | 24.5(2007)       | 45.0                   | 48.0                   | -     |
| 4.3   | Percentage of women screened for cervical cancer   | Survey             | to be determined | 50.0                   | 70.0                   | -     |
| <b>5. Indicators on sex education:</b>                |  |                    |                  |                        |                        |       |
| 5.1   | Percentage of births of adolescent girls (15-19 years olds)                                    | HIS                | 6.0(2010)        | 5.5                    | 5.0                    | 5.5   |
| <b>6. Indicators on violence prevention and care:</b> |  |                    |                  |                        |                        |       |
| 6.1   | Percentage of men and women exposed to domestic violence and sexual abuse                      | Survey             | to be determined | to reduce year by year |                        | -     |
| 6.2   | Number of organisation providing services for victims of domestic violence and sexual abuse    | HIS                | 4(2011)          | 5.0                    | 7.0                    | -     |

## NATIONAL COMMUNICABLE DISEASE CONTROL

| Indicators  | Details  |
|---|--|
| Date and number of the Government Resolution which approved the programme | Resolution № 108, 2011   |
| Duration  | 2011-2015  |
| Main objective  | To strengthen implementation capacity on the "International health regulations" at national and local level and legal environment for the programme implementation |

| №  | Indicators  | Baseline indicator, 2010 | Changes as planned (points) |                            |      |                            |      |                            |      |                            |      |
|----|---|--------------------------|-----------------------------|----------------------------|------|----------------------------|------|----------------------------|------|----------------------------|------|
|    |   |                          | 2012                        | Changes as planned in 2012 | 2013 | Changes as planned in 2013 | 2014 | Changes as planned in 2014 | 2015 | Changes as planned in 2015 |      |
| 1  | Number of teams trained to provide emergency services during outbreaks  | 15                       | 30                          | 34                         | 40   | 34                         | 50   | 40                         | 60   | 66                         |      |
| 2  | Number of provided emergency services in outbreak areas within 24-48 hours                                      | 40                       | 70                          | 88                         | 75   | 85                         | 80   | 90                         | 85   | 95.00%                     |      |
| 3  | Laboratory confirmation of suspected and specific cases of infections   | 40                       | 50                          | 68.4                       | 60   | 70                         | 70   | 75                         | 80   | 80.00%                     |      |
| 4  | Number of specialists trained in risk communication   | 50                       | 150                         | 150                        | 200  | 150                        | 250  | 200                        | 300  | 330                        |      |
| 5  | Number of trainings on emergency services to be provided for new outbreaks of infectious diseases and influenza | 3                        | 5                           | 5                          | 10   | 8                          | 10   | 8                          | 15   | 7                          |      |
| 6  | Number of teams trained on risk communication during outbreaks  | -                        | 10                          | 34                         | 15   | 23                         | 20   | 23                         | 20   | 20                         |      |
| 7  | Number of health organisations having means of personal protection during outbreaks                             | 10                       | 30                          | 30                         | 40   | 35                         | 60   | 0.9                        | 80   | 90.00%                     |      |
| 8  | Number of health organisation provided by laboratory samples collection   | 10                       | 30                          | 30                         | 40   | 37                         | 60   |                            | 80   | 80                         |      |
| 9  | Number of accredited laboratories (infectious diseases tests)   | 2                        | 5                           | 5                          | 6    | 5                          | 7    | 7                          | 8    | 9                          |      |
| 10 | Number of molecular biology tests   | 1                        | 3                           | 3                          | 4    | 9                          | 5    | 5                          | 6    | 6                          |      |
| 11 | Number of laboratories in international reference laboratory  | 2                        | 4                           | 4                          | 6    | 6                          | 6    | 7                          | 6    | 6                          |      |
| 12 | Professionals covered by Hepatitis B vaccination  | 5                        | 30                          | 30                         | 40   | 36                         | 50   | 0.8                        | 60   | 85.00%                     |      |
| 13 | Professionals covered by influenza vaccination  | 10                       | 30                          | 30                         | 40   | 55                         | 50   | 62.8                       | 60   | 27039                      |      |
| 14 | Number of organisation reporting on health professionals' exposure to infectious diseases                       | 6                        | 25                          | 25                         | 40   | 35                         | 50   | 50                         | 60   | 80.00%                     |      |
| 15 | Number of health organizations used to back talon for blood and blood products                                  | -                        | 40                          | 40                         | 60   | 51                         | 80   | 80                         | 100  | 100%                       |      |
| 16 | Surveys on surveillance, prevention, diagnostics and treatment of infectious diseases                           | 9                        | 15                          | 12                         | 17   | 16                         | 20   | 2                          | 22   | 4                          |      |
| 17 | Control on surveillance and emergency services of infectious diseases   | 10                       | 30                          | 30                         | 40   | 32                         | 50   | 30                         | 60   | 75                         |      |
| 18 | New vaccines, bio products, tests   | Vaccines                 | -                           | -                          | 0    | 1                          | -    | 0                          | 1    | 0                          |      |
|    |   | Bio products             | -                           | 1                          | 1    | 1                          | 1    | 0                          | 1    | 0                          |      |
|    |   | Tests                    | -                           | 1                          | 1    | 1                          | 1    | 0                          | 1    | 0                          |      |
| 19 | Cases per 10 000 population (‰)   | Shigellosis              | 11.2                        | 10.0                       | 7.4  | 9.0                        | 7.0  | 9.0                        | 7.9  | 9.0                        | 9.2  |
|    |   | Salmonella infection     | 0.8                         | 0.6                        | 0.4  | 0.6                        | 0.3  | 0.6                        | 0.3  | 0.5                        | 0.5  |
|    |   | Hepatitis A              | 33.8                        | 21.0                       | 21.2 | 15.8                       | 5.7  | 13.0                       | 1.1  | 10.0                       | 0.3  |
|    |   | Measles                  | 0.1                         | -                          | 0.0  | -                          | 0.0  | -                          | 0.0  | -                          | 79.2 |
|    |   | Rubella                  | 5.9                         | 4.5                        | 0.8  | 4.0                        | 0.1  | 3.5                        | 0.0  | 3.0                        | 0.2  |
|    | Mumps   | 7.9                      | 7.0                         | 32.6                       | 7.0  | 18.7                       | 6.5  | 1.5                        | 6.0  | 0.8                        |      |
| 20 | Mortality from tuberculosis (per 100 000 population)  | 2.5                      | 2.1                         | 2.1                        | 1.9  | 2.0                        | 1.7  | 1.9                        | 1.5  | 1.7                        |      |
| 21 | Detection of smear positive tuberculosis cases  | 83.7                     | 84.3                        | 74.1                       | 84.5 | 57.0                       | 84.7 | 76.4                       | 85.0 | 77.6                       |      |
| 22 | Cured new cases of smear positive tuberculosis  | 83.4                     | 82.7                        | 82.7                       | 84.4 | 80.1                       | 84.7 | 80.7                       | 85.0 | 79.5                       |      |
| 23 | Tuberculosis patients screened for HIV  | 35                       | 51                          | 90.6                       | 59   | 60.4                       | 67   | 84.4                       | 75   | 97                         |      |
| 24 | Prevalence of pregnant women with syphilis (survey)   | 1.7                      | 1.3                         | -                          | -    | 1.1                        | -    | 2.5                        | -    | -                          |      |

## NATIONAL INJURIES AND VIOLENCE PREVENTION

| Indicators  | Details  |
|---|--|
| Date and number of the Government Resolution which approved the programme | Resolution №279, 2009                              |
| Duration  | I stage - 2010-2012, II stage - 2013-2016          |
| Main objective  | To reduce disability and mortality due to injuries |

| № | Indicators  | 2010 | 2011 | 2012 | 2013  | 2014  | Changes as planned in 2015 |
|---|---|------|------|------|-------|-------|----------------------------|
| 1 | Death due to road traffic injuries /per 100 000 population/   | 17.8 | 19.7 | 20.9 | 19.9  | 22.9  | 18.1                       |
| 2 | Rate of child injury / per 10 000 population/                 | 94.3 | 96.4 | 99.4 | 124.4 | 124.3 | 121.9                      |
| 3 | Burns /per 10 000 population /                                | 26.9 | 30.2 | 29.2 | 35.1  | 37.6  | 30.0                       |
| 4 | Number of aimags with traumatology outpatient services        | 11   | 11   | 12   | 15    | 16    | 19                         |
| 5 | Number of aimags not having beds for trauma care and services | 11   | 10   | 9    | 6     | 5     | 0                          |
| 6 | Number of aimags without traumatology specialists             | 3    | 3    | 2    | 3     | 1     | 0                          |

## ENVIRONMENTAL HEALTH NATIONAL PROGRAMME

| Indicators  | Details  |
|---|--|
| Date and number of the Government Resolution which approved the programme | Resolution №245, 2005  |
| Duration  | 2006-2015<br>I stage - 2006-2010<br>II stage - 2010-2015   |
| Main objective  | To decrease the factors adversely affecting the environment and create safe conditions of healthy life and work for the population, by improving the inter-sectoral coordination and cooperation and by facilitation of activities regarding the improvement of environmental health |

| №   | Indicators                        | 2006  | 2007  | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|-----------------------------------|-------|-------|------|------|------|------|------|------|------|
| <b>I. Water-born infectious diseases (per 10 000 pop)</b>             |                                   |       |       |      |      |      |      |      |      |      |
| 1   | Typhoid and paratyphoid fevers    | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2   | Salmonella infections             | 0.0   | 0.7   | 0.5  | 0.5  | 0.4  | 0.4  | 0.3  | 0.3  | 0.5  |
| 3   | Shigellosis                       | 7.3   | 9.2   | 11.7 | 12.5 | 7.6  | 7.4  | 7.0  | 7.9  | 9.2  |
| 4   | Acute hepatitis A                 | 21.7  | 34.2  | 22.1 | 29.4 | 49.0 | 21.2 | 5.7  | 1.1  | 0.3  |
| <b>II. Upper respiratory tract infections /per 10 000 population/</b> |                                   |       |       |      |      |      |      |      |      |      |
| 1   | Acute epiglottitis and tracheitis | 33.25 | 40.57 | 49.7 | 56.7 | 46.9 | 46.5 | 53.5 | 56.5 | 63.3 |
| 2   | Asthma                            | 14.46 | 15.8  | 20.1 | 19.8 | 19.1 | 20.0 | 18.9 | 19.4 | 19.0 |

**“PREVENTION AND CONTROL SECOND PROGRAM ON DISEASE REASON FROM UNHEALTHY LIFESTYLE”**

| Indicators  | Details  |
|---|--|
| Date and number of the Government Resolution which approved the programme | Government Resolution #34, 2014-02-07  |
| Duration  | 2014-2021<br>First step: 2014-2017<br>Second step: 2017-2021   |
| Main objective  | To accustom healthy living custom and habits for individual person, families, organizations and community, and by improving control, surveillance, management of most common non-communicable diseases to create an environment for decreasing disability, and premature mortality rate for non-preventable infectious diseases. |

| №  | Indicators  | Sources | Baseline indicator, 2013 | Baseline indicator, 2015 | Changes as planned |      |
|--|---|---------|--------------------------|--------------------------|--------------------|------|
|  |   |         |                          |                          | 2017               | 2021 |
| <b>I. The indicators of primary risk factors of non-communicable diseases , related to human behavior</b>      |   |         |                          |                          |                    |      |
| 1  | Tobacco use in the population, by percent   | *       | 27.1                     | 27.1                     | 27                 | 21.7 |
| 2  | Children, aged 13-15, used cigarettes 1-2 times in the past 30 days, by percent   | **      | 5.9                      | 5.9                      | 5.4                | 4.9  |
| 3  | Children, aged 16-17, used cigarettes 1-2 times in the past 30 days, by percent   | **      | 17.5                     | 17.5                     | 16                 | 14.5 |
| 4  | Victims of tobacco smoke in the workplace in the past 30 days, by percent   | *       | 25.5                     | 25.5                     | 23.4               | 21.3 |
| 5  | Alcohol per person over the age of 15, by liters (moving alcohol)   | *****   | 9.8                      | 9.8                      | 8.8                | 7.9  |
| 6  | Overstated alcohol users, by percent  | *       | 10.3                     | 23.5                     | 10                 | 9.6  |
| 7  | Students, aged 15-17, used excessive alcohol 1-2 times, by percent  | **      | 23.1                     | 23.1                     | 22.3               | 21.6 |
| 8  | Average daily salt intake of the population aged 25-64 (gr/per day)   | ****    | 11.1                     | 11.1                     | 10                 | 8.9  |
| 9  | Population, that can not be used fruits and vegetables 5 unit per day (400rp), by percent   | *       | 96.4                     | 96.4                     | 88.4               | 80.3 |
| 10   | Physically inactive population, by percent  | *       | 22.3                     | 22.3                     | 21.6               | 20.8 |
| <b>II. The indicators of secondary risk factors of non-communicable diseases , related to human behavior:</b>  |   |         |                          |                          |                    |      |
| 1  | Percentage of overweight and obese population (BMI $\geq 25$ kr/m <sup>2</sup> )  | *       | 54.4                     | 54.4                     | 49.9               | 45.3 |
| 2  | Prevalence of arterial hypertension, by percent (high blood pressure $\geq 140$ , low blood pressure $\geq 90$ and using of antihypertensive drugs) | *       | 27.5                     | 27.5                     | 25.2               | 22,9 |
| 3  | Percentage of the population of total cholesterol level is 5 mmol/l or more   | *       | 61.9                     | 5.1                      | 56.7               | 51.9 |
| 4  | Percentage of the population of peripheral blood glucose 5.6-6.0 mmol/l   | *       | 8.3                      | 8.3                      | 7.6                | 6.9  |
| 5  | Population, increasing the amount of glucose in the blood (6.1 mmol/l or more), and using glucose-lowering drugs, by percent                        | *       | 6.9                      | 6.9                      | 6.3                | 5.8  |
| <b>III. The indicators of screening and morbidity of non-communicable diseases, related to human behavior:</b> |   |         |                          |                          |                    |      |
| 1  | Percentage of people screened for cervical cancer (30-60 year)  | ***     | 35.6                     | 38.3                     | 61                 | 80.4 |
| 2  | Percentage of people screened for breast cancer (30-60 year)  | ***     | 25.9                     | 0                        | 55.4               | 77.8 |
| 3  | Percentage of people screened for arterial hypertension (40-64 year)  | ***     | 41.5                     | 65.1                     | 59                 | 79.5 |
| 4  | Percentage of people screened for diabetes type 2 (40-64 year)  | ***     | 38.0                     | 60.3                     | 55                 | 77.5 |
| <b>IV. The indicators of morbidity and mortality of common non-communicable diseases:</b>                      |   |         |                          |                          |                    |      |
| 1  | Cancer mortality (per 10 000 population)  | ***     | 13.4                     | 13.8                     | 11.6               | 10.5 |
| 2  | Mortality causes by diseases of circulatory system (per 10000 population)   | ***     | 19.1                     | 18.47                    | 19.2               | 17.4 |

## MENTAL HEALTH SECOND NATIONAL PROGRAMME

| Indicators  | Details  |
|---|--|
| Date and number of the Government Resolution which approved the programme | Resolution №303, 2009  |
| Duration  | 2010-2019  |
|   | I stage - 2010-2014  |
|   | II stage - 2015-2019   |
| Main objective  | To reduce prevalence of mental and behavioral disorders through building a supportive environment to support mental health promotion, expand mental health services at primary level and community based health care |

| №  | Indicators   | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | Changes as planned in 2019 |
|--|--|------|------|------|------|------|------|------|----------------------------|
| <b>To increase quality and access of mental health services and care</b> |  |      |      |      |      |      |      |      |                            |
| 1  | Number of beds for mental disorders (per 10 000 population)  | 2.2  | 2.2  | 2.2  | 2.2  | 2.1  | 2.3  | 2.4  | Decrease by 15%            |
| 2  | Number of bed for mental disorders at aimag, district hospitals (per 10 000 population)  | 0.6  | 0.6  | 0.6  | 0.6  | 0.6  | 0.6  | 0.7  | Increase by 15 %           |
| 3  | Number of family centers that operate in communities   | 12   | 12   | 14   | 14   | 14   | 14   | 12   | 16                         |
| 4  | Number of mental health doctors at aimag, district level (per 10 000 population)   | 0.1  | 0.1  | 0.43 | 0.4  | 0.4  | 0.1  | 0.2  | 0.3                        |
| 5  | Percentage of soums, family clinics' doctors who attended training on mental health care and services at primary level                               | 25.0 | 32.0 | 32.0 | 25.0 | 25.0 | 25   | 50   | 85                         |
| 6  | Percentage of mental health education in Medical science and nursing schools training curriculum   | 5.0  | 5.5  | 5.5  | 5.5  | 2.7  | 5.5  | 5.5  | 15                         |
| 7  | Percentage of aimag, district, soum and family hospitals that are provided with medicines on mental health from the national list of essential drugs | 86.0 | 41.0 | 45.0 | 41.0 | 20.0 | 29   | 29   | 100                        |

## ORAL HEALTH PROGRAMME

| Indicators  | Details   |
|---|---|
| Date and number of the Government Resolution which approved the programme | Resolution №150, 2006   |
| Duration  | 2006-2015   |
|   | I stage - 2006-2010   |
|   | II stage - 2011-2015  |
| Main objective  | To reduce prevalence of caries by improving monitoring and surveyllance of caries and its risk factors, by establishing health promotion environment to suppor healthy behavior, by increasing individuals' monitoring on their oral health, and by improving quality and access of community-based oral health services and care |

| №                                      | Indicators   | 2004                    | 2010 | 2011 | 2015 |      |      |
|--|--|-------------------------|------|------|------|------|------|
| <b>Tooth decay prevalence and pace</b> |  |                         |      |      |      |      |      |
| 1                                      | Tooth decay prevalence   | Children aged 5-6 years |      | 80.1 | 79.0 | 89.3 | 78.0 |
| 2                                      |  | Children aged 12 years  |      | 62.0 | 61.0 | 65.3 | 60.0 |
| 3                                      |  | General population      |      | 71.6 | 71.0 | 69.9 | 70.0 |
| 4                                      | Tooth decay pace   | Children aged 5-6 years |      | 4.6  | 4.5  | 6.9  | 4.3  |
| 5                                      |  | Children aged 12 years  |      | 1.9  | 1.9  | 2.3  | 1.8  |
| 6                                      |  | General population      |      | 3.1  | 3.0  | 69.9 | 2.8  |
| 7                                      | Percentage of children in age groups 3 and 18 years old with complete set of teeth |                         | 67.5 | 70.0 | 69.9 | 72.5 |      |



# CHAPTER 14

MONGOLIAN  
INDICATORS, WESTERN  
PACIFIC DATABASE,  
WHO, 2015

## MONGOLIAN INDICATORS, WESTERN PACIFIC DATABASE, WHO, 2015

| Indicators                                   |  | Data     |         |         | Year | Source |     |
|--|--|----------|---------|---------|------|--------|-----|
| I Demographic and socio-economic statistics  |  | Total    | Male    | Female  |      |        |     |
| 1  | Land area (1 000 км <sup>2</sup> )   | 1 567.00 | ...     | ...     | 2015 |        |     |
| 2  | Population (in thousands)  | 3 057.7  | 1 503.6 | 1 554.1 | 2015 | NRSO   |     |
| 3  | Population distribution by age (%)   |          |         |         |      | NRSO   |     |
|  | - 0–4 years  | 12.7     | 13.2    | 12.1    | 2015 | NRSO   |     |
|  | - 5–14 years   | 16.9     | 17.5    | 16.3    | 2015 | NRSO   |     |
|  | - 60 and older   | 5.9      | 4.9     | 6.8     | 2015 | NRSO   |     |
|  | - 65 and older   | 3.8      | 3.0     | 4.5     | 2015 | NRSO   |     |
|  | - 80 and older   | 0.6      | 0.4     | 0.8     | 2015 | NRSO   |     |
| 4  | Population growth rate (%)   | 2.1      | ...     | ...     | 2015 | NRSO   |     |
| 5  | Urban population (%)   | 68.0     | 67.5    | 69.6    | 2015 | NRSO   |     |
| 6  | Crude birth rate (per 1000 population)                                     | 26.7     | ...     | ...     | 2015 | CHD    |     |
| 7  | Crude death rate (per 1000 population)                                     | 5.4      | 6.6     | 4.2     | 2015 | CHD    |     |
| 8  | “Total fertility rate (15–49 насны эмэгтэйчүүд)”                           | 3.1      | ...     | ...     | 2015 | NRSO   |     |
| 9  | Adult literacy rate (%)  | 96.6     | 95.2    | 97.5    | 2013 | SISS   |     |
| 10   | Per capita GDP at current market prices (US\$)                             | 4512     | ...     | ...     | 2014 | NRSO   |     |
| 11   | Rate of growth of per capita GDP (%)                                       | 10.1     | ...     | ...     | 2014 | NRSO   |     |
| 12   | Registered deaths (%)  |          |         |         |      |        |     |
| II Health facilities                         |  | Total    | Public  | Private |      |        |     |
| 1  | Number of health posts and clinics   | 1877     | 647     | 1230    | 2015 | CHD    |     |
| 2  | Number of health centers   | 509      | 509     |         | 2015 | CHD    |     |
| 3  | Number of district hospitals   | 12       | 12      |         | 2015 | CHD    |     |
| 4  | Number of provincial hospitals   | 16       | 16      |         | 2015 | CHD    |     |
| 5  | “Number of regionalized/specialized/teaching and research hospitals”       | 5        | 5       |         | 2015 | CHD    |     |
| 6  | Number of hospital beds  | 21720    | 16458   | 5262    | 2015 | CHD    |     |
| III Health service accessibility and quality |  | Total    | Public  | Private |      |        |     |
| 3  | Average number of outpatient visits per person per year                    | 5.5      | 4.9     | 0.6     | 2015 | CHD    |     |
| 4  | Case fatality rate for acute myocardial infarction (AMI)                   | 809      | 805     | 4       | 2015 | CHD    |     |
| IV Health service coverage                   |  | Total    | Urban   | Rural   |      |        |     |
| 1  | Contraceptive prevalence rate (%)  | 54.1     |         |         | 2015 | CHD    |     |
| 2  | Women in the reproductive age group using modern contraceptive methods (%) | 48.2     |         |         | 2012 | SCD    |     |
| 3  | Unmet need for family planning (%)   | 22.3     | 24.1    | 18.9    | 2012 | SCD    |     |
| 4  | Antenatal care coverage (%)  | 84.2     | 83.1    | 86.6    | 2015 | CHD    |     |
| 5  | Of births attended by health professionals (%)                             | home     | 53.2    | ...     | ...  | 2015   | CHD |
|  |  | hospital | 100.0   | ...     | ...  | 2015   | CHD |
| 6  | Percentage of caesarean birth  | 24.8     | 26.5    | 8.3     | 2015 | CHD    |     |

|                        |  |              |              |               |      |      |
|------------------------|--|--------------|--------------|---------------|------|------|
| 7                      | Postpartum maternal and neonatal monitoring home inspection (%)                        |              |              |               |      | CHD  |
|                        |  | <b>Total</b> | <b>Male</b>  | <b>Female</b> |      |      |
| 8                      | Neonates protected at birth against neonatal tetanus (%)                               | 97.6         | 98.0         | 98.8          | 2013 | SISS |
| 9                      | Proportion of children 2-59 months with diarrhoea who received zinc supplements        |              |              |               |      |      |
| 10                     | Proportion of children 6-59 months old who had received vitamin A in the past 6 months | 82.90        | 82.10        | 84.3          | 2013 | SISS |
| 11                     | Children aged < 5 years with acute respiratory symptoms                                | 175624       | 93441        | ...           | 2015 | CHD  |
| <b>V Health status</b> |  | <b>Total</b> | <b>Male</b>  | <b>Female</b> |      |      |
| 1                      | Life expectancy at birth   | 69.89        | 66.02        | 75.84         | 2015 | NRSO |
| 2                      | Mortality rate (per 100 000 population)  | 540.9        | 661.4        | 424.9         | 2015 | CHD  |
|                        |  | <b>Total</b> | <b>Urban</b> | <b>Rural</b>  |      |      |
| 3                      | Proportion of women of reproductive age (15-49) with anaemia                           | ...          | ...          | ...           |      |      |
| 4                      | Percentage of pregnant women with anaemia  | 3.9          | ...          | ...           | 2015 | CHD  |
| 5                      | Adolescent birth percent (girls aged 15-19 years)                                      | 5.5          | 5.5          | 4.4           | 2015 |      |
|                        | Adolescent birth rate (per 1000 girls aged 15-19 years)                                | 37.3         | ...          | ...           | 2015 | CHD  |
| 6                      | Number of postpartum haemorrhage cases   | 1073         | 867          | 206           | 2015 | CHD  |
| 7                      | Number of postpartum haemorrhage deaths  | 2            | 1            | 1             | 2015 | CHD  |
| 8                      | Number of eclampsia and pre-eclampsia cases  | 5674         | 5441         | 233           | 2015 | CHD  |
| 9                      | Number of eclampsia and pre-eclampsia deaths   | 2            | 2            | ...           | 2015 | CHD  |
| 10                     | Number of maternal deaths  | 21           | 18           | 3             | 2015 | CHD  |
| 11                     | Maternal mortality ratio (per 100 000 live births)                                     | 26.0         | ...          | ...           | 2015 | CHD  |
|                        |  | <b>Total</b> | <b>Male</b>  | <b>Female</b> |      |      |
| 12                     | Neonatal mortality rate (per 1000 live births)   | 10.2         | 11.6         | 8.7           | 2015 | CHD  |
| 13                     | Infant mortality rate /per 1000 live births/   | 15.3         | 17.4         | 13.0          | 2015 | CHD  |
| 14                     | Under-five mortality rate (per 1000 live births)                                       | 18.3         | 20.7         | 15.7          | 2015 | CHD  |
| 17                     | Number of injury cases   | 161831       | 101729       | 60102         | 2015 | CHD  |
| 18                     | Number of injury deaths  | 2563         | 2070         | 493           | 2015 | CHD  |
| 19                     | Number of homicide and violence cases  | ...          | ...          | ...           |      |      |
| 20                     | Number of homicide and violence deaths   | 241          | 197          | 44            | 2015 | CHD  |
| 21                     | Number of road traffic injury cases  | 4 722        | 2 934        | 1 788         | 2015 | CHD  |
| 22                     | Number of road traffic injury deaths   | 565          | 447          | 118           | 2015 | CHD  |
| 23                     | Number of suicide cases  | ...          | ...          | ...           |      |      |
| 24                     | Number of suicide deaths   | 479          | 408          | 71            | 2015 | CHD  |
| 25                     | Suicide rate   | ...          | ...          | ...           |      |      |
| 26                     | Prevalence of disability (per 10 000 population)                                       | 330.3        | 355.6        | 305.8         | 2015 | CHD  |
| 27                     | “ Malaria mortality rate (per 100 000 population)“                                     | ...          | ...          | ...           |      |      |
| 28                     | Malaria incidence rate (per 1000 population at risk)                                   | ...          | ...          | ...           |      |      |
| 29                     | Number of confirmed malaria cases by Plasmodium falciparum                             | ...          | ...          | ...           |      |      |
| 30                     | Number of confirmed malaria cases by Plasmodium vivax                                  | ...          | ...          | ...           |      |      |

|                            |  |              |             |               |      |     |
|----------------------------|--|--------------|-------------|---------------|------|-----|
| 31                         | Number of confirmed malaria cases                              | 1            | 0           | 1             | 2015 | CHD |
| 32                         | Number of malaria deaths                                       | ...          | ...         | ...           |      |     |
| 33                         | Cardiovascular disease mortality rate (per 100 000 population) | 184.7        | 216.6       | 154.0         | 2015 | CHD |
| 34                         | Cancer mortality rate (per 100 000 population)                 | 131.8        | 148.1       | 116.0         | 2015 | NCC |
| 35                         | "Diabetes mortality rate (per 100 000 population)"             | 6.2          | 6.6         | 5.9           | 2015 | CHD |
| 36                         | Respiratory disease mortality rate (per 100 000 population)    | 20.3         | 24.8        | 15.8          | 2015 | CHD |
| <b>VI Health workforce</b> |  | <b>Total</b> | <b>Male</b> | <b>Female</b> |      |     |
| 1                          | Number of physicians   | 9563         | 2187        | 7376          | 2015 | CHD |
|                            | < 30 years   | 2815         | 734         | 2081          | 2015 | CHD |
|                            | 30-39  | 2528         | 635         | 1893          | 2015 | CHD |
|                            | 40-49  | 2104         | 410         | 1694          | 2015 | CHD |
|                            | 50-59  | 1663         | 257         | 1406          | 2015 | CHD |
|                            | > = 60   | 453          | 151         | 302           | 2015 | CHD |
| 2                          | Number of nursing personnel                                    | 11357        | 317         | 11040         | 2015 | CHD |
|                            | < 30   | 3407         | 191         | 3216          | 2015 | CHD |
|                            | 30-39  | 2637         | 66          | 2571          | 2015 | CHD |
|                            | 40-49  | 3342         | 39          | 3303          | 2015 | CHD |
|                            | 50-59  | 1917         | 22          | 1895          | 2015 | CHD |
|                            | > = 60   |              | 0           |               | 2015 | CHD |
| 3                          | Number of midwifery personnel                                  | 916          | 26          | 890           | 2015 | CHD |
|                            | < 30   | 343          | 20          | 323           | 2015 | CHD |
|                            | 30-39  | 125          | 2           | 123           | 2015 | CHD |
|                            | 40-49  | 315          | 2           | 313           | 2015 | CHD |
|                            | 50-59  | 129          | 2           | 127           | 2015 | CHD |
|                            | > = 60   | 4            | 0           | 4             | 2015 | CHD |
| 4                          | Number of dentist  | 1018         | 164         | 854           | 2015 | CHD |
|                            | < 30   | 390          | 64          | 326           | 2015 | CHD |
|                            | 30-39  | 280          | 51          | 229           | 2015 | CHD |
|                            | 40-49  | 212          | 31          | 181           | 2015 | CHD |
|                            | 50-59  | 102          | 11          | 91            | 2015 | CHD |
|                            | > = 60   | 34           | 7           | 27            | 2015 | CHD |
| 5                          | Number of pharmacists  | 1504         | 118         | 1386          | 2015 | CHD |
|                            | < 30   | 526          | 44          | 482           | 2015 | CHD |
|                            | 30-39  | 435          | 38          | 397           | 2015 | CHD |
|                            | 40-49  | 264          | 24          | 240           | 2015 | CHD |
|                            | 50-59  | 219          | 7           | 212           | 2015 | CHD |
|                            | > = 60   | 60           | 5           | 55            | 2015 | CHD |

|    |   |              |             |               |      |      |
|----|---|--------------|-------------|---------------|------|------|
| 6  | Number of environment and public health workers   | 932          | 139         | 793           | 2015 | CHD  |
|    | < 30  | 343          | 77          | 266           | 2015 | CHD  |
|    | 30-39   | 249          | 38          | 211           | 2015 | CHD  |
|    | 40-49   | 194          | 12          | 182           | 2015 | CHD  |
|    | 50-59   | 132          | 9           | 123           | 2015 | CHD  |
|    | > = 60  | 14           | 3           | 11            | 2015 | CHD  |
| 7  | "Number of health management and support workers" | 871          | 343         | 528           | 2015 | CHD  |
|    | < 30  | 54           | 16          | 38            | 2015 | CHD  |
|    | 30-39   | 168          | 78          | 90            | 2015 | CHD  |
|    | 40-49   | 319          | 116         | 203           | 2015 | CHD  |
|    | 50-59   | 267          | 98          | 169           | 2015 | CHD  |
|    | > = 60  | 63           | 35          | 28            | 2015 | CHD  |
| 8  | Number of laboratory health workers               | 1107         | 87          | 1020          | 2015 | CHD  |
|    | < 30  | 330          | 53          | 277           | 2015 | CHD  |
|    | 30-39   | 246          | 13          | 233           | 2015 | CHD  |
|    | 40-49   | 342          | 13          | 329           | 2015 | CHD  |
|    | 50-59   | 176          | 8           | 168           | 2015 | CHD  |
|    | > = 60  | 13           | 0           | 13            | 2015 | CHD  |
| 9  | Number of physiotherapists                        | 127          | ...         | ...           | 2015 | CHD  |
|    | < 30  | ...          | ...         | ...           | 2015 | CHD  |
|    | 30-39   | ...          | ...         | ...           | 2015 | CHD  |
|    | 40-49   | ...          | ...         | ...           | 2015 | CHD  |
|    | 50-59   | ...          | ...         | ...           | 2015 | CHD  |
|    | > = 60  | ...          | ...         | ...           | 2015 | CHD  |
| 10 | Number of other health service providers          | 12322        | 3744        | 8578          | 2015 | CHD  |
|    | < 30  | 1768         | 493         | 1275          | 2015 | CHD  |
|    | 30-39   | 3399         | 895         | 2504          | 2015 | CHD  |
|    | 40-49   | 4376         | 1247        | 3129          | 2015 | CHD  |
|    | 50-59   | 2663         | 1054        | 1609          | 2015 | CHD  |
|    | > = 60  | 116          | 55          | 61            | 2015 | CHD  |
|    |   | <b>Total</b> | <b>Male</b> | <b>Female</b> |      |      |
| 11 | Number of medical school graduates                | 2819         | 416         | 1624          | 2015 | MEDS |
| 12 | Nursing graduates                                 | 463          | 23          | 220           | 2015 | MEDS |
| 13 | Midwifery graduates                               | 190          | 13          | 126           | 2015 | MEDS |
| 14 | Dentistry graduates                               | 177          | 25          | 141           | 2015 | MEDS |
| 15 | Pharmacy graduates                                | 236          | 19          | 72            | 2015 | MEDS |

| VII Risk factors and behaviors |  | Total | Urban | Rural  |      |       |
|--------------------------------|--|-------|-------|--------|------|-------|
| 1                              | Population using improved drinking water sources (%)   | 84.8  | 98.0  | 61.8   | 2013 | SISS  |
| 2                              | Population using improved sanitation facilities (%)  | 58.3  | 69.1  | 39.4   | 2013 | SISS  |
| 3                              | National standards on ambient air quality  | ...   | ...   | ...    |      |       |
| 4                              | Incidence of low birthweight   | 3541  |       |        | 2015 | CHD   |
| 5                              | Infants <24 months of age with breastfeeding initiated within one hour of birth (%)            | 94.8  |       |        | 2015 | CHD   |
| 6                              | Children under 6 months of age who are exclusively breastfed (%)                               | 47.1  | 45.8  | 49.7   | 2013 | SISS  |
| 7                              | Infants aged 6-8 months receiving breastmilk and complementary food (%)                        | 94.8  | 96.5  | 91.9   | 2013 | SISS  |
|                                |  | Total | Male  | Female |      |       |
| 8                              | Children < 5 who are underweight (%)   | 1.6   | 1.4   | 1.2    | 2013 | SISS  |
| 9                              | Children <5 who are stunted (%)  | 1.0   | 1.2   | 0.9    | 2013 | SISS  |
| 10                             | Children < 5 who are wasted (%)  | 10.8  | 11.1  | 8.4    | 2013 | SISS  |
| 11                             | Prevalence of heavy episodic drinking  | 23.5  | 37.5  |        | 2013 | SISS  |
| 12                             | Prevalence of alcohol drinking among 15+ years   | 64.6  | 74.5  |        | 2013 | SSNCD |
| 13                             | <b>Age-standardized prevalence of current tobacco use (%)</b>                                  | 27.1  | 49.1  |        | 2013 | SSNCD |
|                                | 13-15 years  | ...   |       |        |      |       |
|                                | > 15 years   | 27.1  | 49.1  | ...    | 2013 | SSNCD |
| 14                             | Prevalence of raised blood pressure among persons aged 18+ years                               | 27.5  | 30.5  | ...    | 2013 | SSNCD |
| 15                             | Mean population intake of salt (sodium chloride) per day in grams in adults aged 18+ years old | ...   | ...   | ...    |      |       |
| 16                             | Prevalence of insufficiently physically active among persons aged 18+ years                    | 22.3  | 21.3  | ...    | 2013 | SSNCD |
| 17                             | Prevalence of raised blood glucose/diabetes among persons aged 18+ years                       | 6.9   | 7.6   | ...    | 2013 | SSNCD |



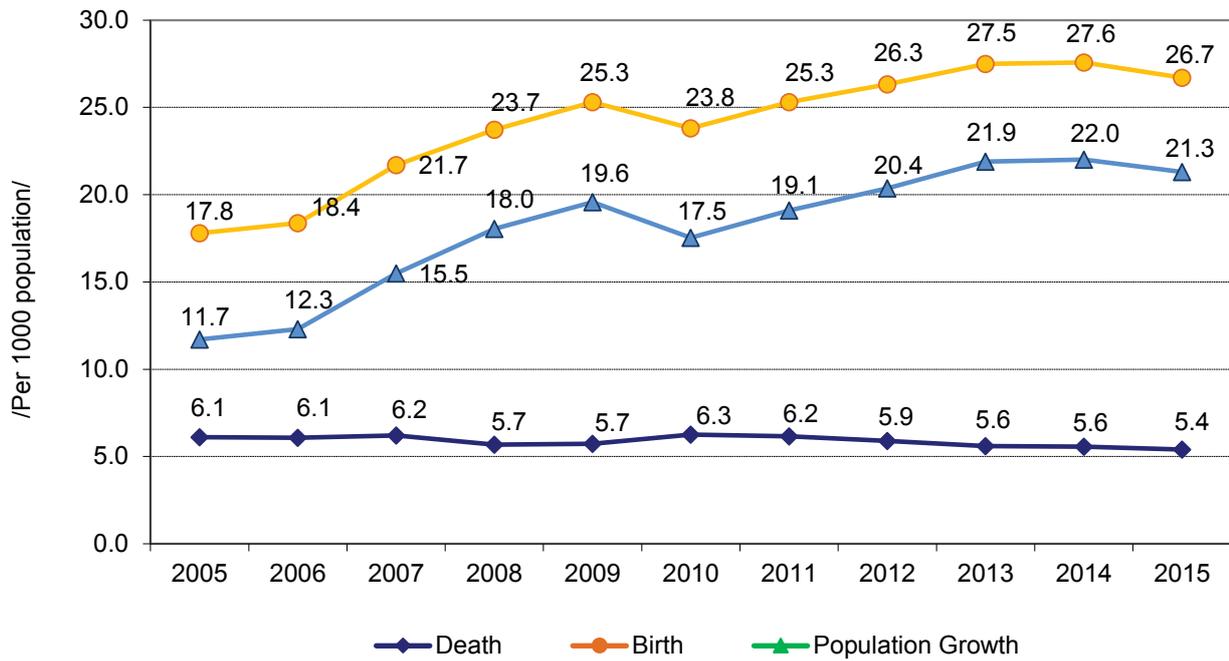
# CHAPTER 15

HEALTH  
INDICATOR

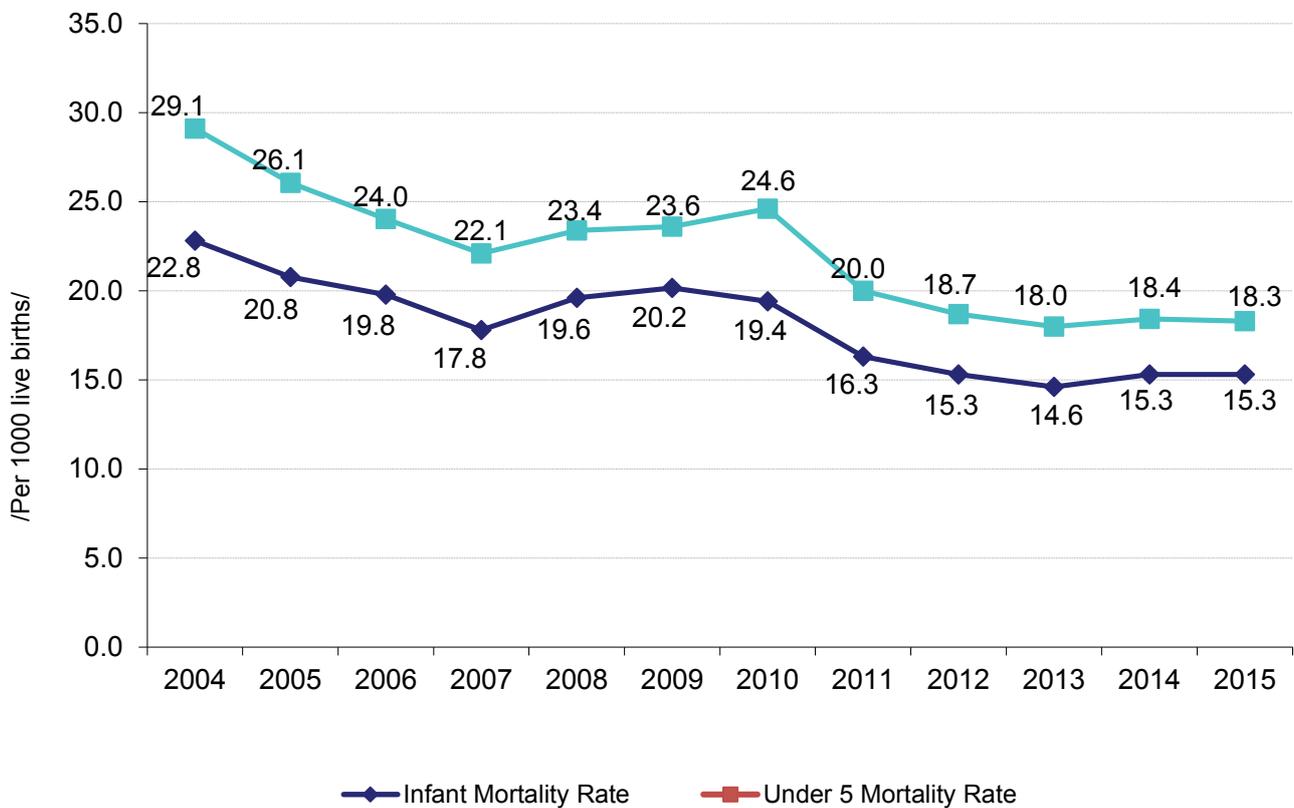
## MAIN HEALTH INDICATORS, 2015

| №  | Aimags and city        | Population, 2015 | Per 10,000 population |             |             |  |                    | Number of persons per hospital bed | Number of persons per physician | Number of midlevel personnel per physician | Average outpatient visits per person per year | Per 1000 population |                  |                          | Under 5 mortality rate                     |                           |
|----|------------------------|------------------|-----------------------|-------------|-------------|--|--------------------|------------------------------------|---------------------------------|--|---|---------------------|------------------|--------------------------|--|---------------------------|
|    |                        |                  | Hospital beds         | Physicians  | Nurses      | Medical professional and technical employees | All health workers |                                    |                                 |  |   | Crude birth rate    | Crude death rate | "Population growth rate" | Infant mortality rate per 1000 live births | per 1000 under 5 children |
| 1  | 2                      | 3                | 4                     | 5           | 6           | 7  | 8                  | 9                                  | 10                              | 11   | 12  | 13                  | 14               | 15                       | 16   |                           |
| 1  | Arkhangai              | 92059            | 55.2                  | 18.0        | 29.5        | 31.7   | 135.6              | 181.2                              | 554.3                           | 1.8  | 3.1   | 22.2                | 5.4              | 16.8                     | 14.1                                       | 18.0                      |
| 2  | Bayan-Ulgii            | 100189           | 68.9                  | 17.0        | 30.4        | 25.1   | 122.1              | 145.1                              | 588.4                           | 1.5  | 3.8   | 28.4                | 5.5              | 22.9                     | 24.9                                       | 31.4                      |
| 3  | Bayankhongor           | 83936            | 57.1                  | 19.0        | 35.0        | 31.0   | 139.8              | 175.0                              | 525.1                           | 1.6  | 2.9   | 25.5                | 5.7              | 19.8                     | 14.1                                       | 18.3                      |
| 4  | Bulgan                 | 60014            | 55.1                  | 18.4        | 32.9        | 31.4   | 127.5              | 181.5                              | 542.8                           | 1.7  | 2.7   | 16.4                | 5.8              | 10.7                     | 17.2                                       | 19.2                      |
| 5  | Govi-Altai             | 56209            | 66.4                  | 30.5        | 43.6        | 45.9   | 190.5              | 150.6                              | 328.3                           | 1.5  | 3.8   | 22.9                | 4.9              | 18.0                     | 13.1                                       | 15.5                      |
| 6  | Gobi-Sumber            | 16522            | 64.5                  | 34.4        | 37.4        | 38.1   | 160.2              | 155.1                              | 290.9                           | 1.1  | 7.4   | 27.4                | 5.0              | 22.4                     | 13.5                                       | 15.7                      |
| 7  | Darkhan-Uul            | 100939           | 67.1                  | 26.2        | 39.7        | 24.2   | 136.7              | 149.0                              | 381.9                           | 0.9  | 5.7   | 26.3                | 5.4              | 20.9                     | 10.2                                       | 12.1                      |
| 8  | Dornogovi              | 65267            | 62.6                  | 32.5        | 32.2        | 25.3   | 150.6              | 159.7                              | 307.3                           | 0.8  | 5.9   | 24.0                | 5.3              | 18.7                     | 12.3                                       | 12.3                      |
| 9  | Dornod                 | 76476            | 56.4                  | 22.3        | 35.6        | 24.0   | 136.3              | 177.2                              | 448.7                           | 1.1  | 4.4   | 26.0                | 6.0              | 19.9                     | 7.6  | 10.2                      |
| 10 | Dundgovi               | 44429            | 51.1                  | 27.7        | 35.6        | 34.0   | 157.9              | 195.6                              | 360.9                           | 1.2  | 3.9   | 22.6                | 5.9              | 16.7                     | 7.0  | 10.0                      |
| 11 | Zavkhan                | 69916            | 71.2                  | 23.1        | 39.2        | 41.8   | 168.1              | 140.5                              | 433.7                           | 1.8  | 4.3   | 23.4                | 5.6              | 17.8                     | 25.8                                       | 28.2                      |
| 12 | Orkhon                 | 100731           | 61.4                  | 27.4        | 36.3        | 26.7   | 133.0              | 162.9                              | 365.5                           | 1.0  | 5.7   | 27.6                | 5.4              | 22.2                     | 12.2                                       | 15.2                      |
| 13 | Uvurkhangai            | 112353           | 60.7                  | 22.0        | 28.7        | 26.4   | 123.6              | 164.7                              | 454.3                           | 1.2  | 3.4   | 24.5                | 5.5              | 18.9                     | 14.2                                       | 18.9                      |
| 14 | Umnugovi               | 61655            | 73.5                  | 28.0        | 27.9        | 29.8   | 128.1              | 136.0                              | 356.9                           | 1.1  | 5.1   | 24.8                | 5.4              | 19.4                     | 16.6                                       | 19.9                      |
| 15 | Sukhbaatar             | 59034            | 62.7                  | 24.0        | 36.6        | 31.1   | 136.2              | 159.5                              | 415.9                           | 1.3  | 4.3   | 24.0                | 5.6              | 18.4                     | 18.6                                       | 22.9                      |
| 16 | Selenge                | 106292           | 58.4                  | 19.7        | 27.5        | 22.9   | 112.6              | 171.1                              | 508.4                           | 1.2  | 3.5   | 18.4                | 5.0              | 13.4                     | 8.2  | 11.8                      |
| 17 | Tuv                    | 90421            | 57.7                  | 20.9        | 31.1        | 24.7   | 135.2              | 173.3                              | 477.6                           | 1.2  | 2.6   | 14.1                | 5.0              | 9.1                      | 13.3                                       | 17.3                      |
| 18 | Uvs                    | 80763            | 69.0                  | 21.6        | 34.4        | 42.9   | 146.4              | 145.0                              | 463.2                           | 2.0  | 4.2   | 25.7                | 5.6              | 20.0                     | 20.4                                       | 23.4                      |
| 19 | Khovd                  | 83517            | 67.6                  | 23.5        | 33.5        | 33.5   | 134.1              | 147.8                              | 425.2                           | 1.4  | 4.3   | 28.0                | 4.9              | 23.1                     | 20.8                                       | 23.3                      |
| 20 | Khuvsgul               | 128159           | 60.2                  | 18.2        | 28.6        | 33.5   | 119.7              | 166.1                              | 550.2                           | 1.8  | 2.9   | 24.6                | 6.2              | 18.4                     | 22.4                                       | 27.5                      |
| 21 | Khentii                | 72609            | 60.2                  | 21.6        | 33.7        | 27.1   | 140.6              | 166.1                              | 463.9                           | 1.3  | 4.2   | 22.7                | 4.7              | 18.0                     | 17.1                                       | 18.4                      |
| 22 | <b>Aimag average</b>   | <b>1661490</b>   | <b>62.1</b>           | <b>22.6</b> | <b>33.1</b> | <b>30.1</b>                                  | <b>136.2</b>       | <b>160.9</b>                       | <b>441.7</b>                    | <b>1.3</b>                                 | <b>4.0</b>                                    | <b>23.8</b>         | <b>5.4</b>       | <b>18.3</b>              | <b>15.9</b>                                | <b>19.2</b>               |
| 23 | Ulaanbaatar            | 1396288          | 83.2                  | 42.3        | 42.8        | 17.9   | 181.2              | 120.1                              | 236.5                           | 0.4  | 7.3   | 30.2                | 5.4              | 24.9                     | 14.7                                       | 17.3                      |
| 24 | <b>Country average</b> | <b>3057778</b>   | <b>71.8</b>           | <b>31.6</b> | <b>37.5</b> | <b>24.5</b>                                  | <b>156.7</b>       | <b>139.4</b>                       | <b>316.5</b>                    | <b>0.8</b>                                 | <b>5.5</b>                                    | <b>26.7</b>         | <b>5.4</b>       | <b>21.3</b>              | <b>15.3</b>                                | <b>18.3</b>               |

## Crude Birth and Death Rates and Population Growth /2005-2015/



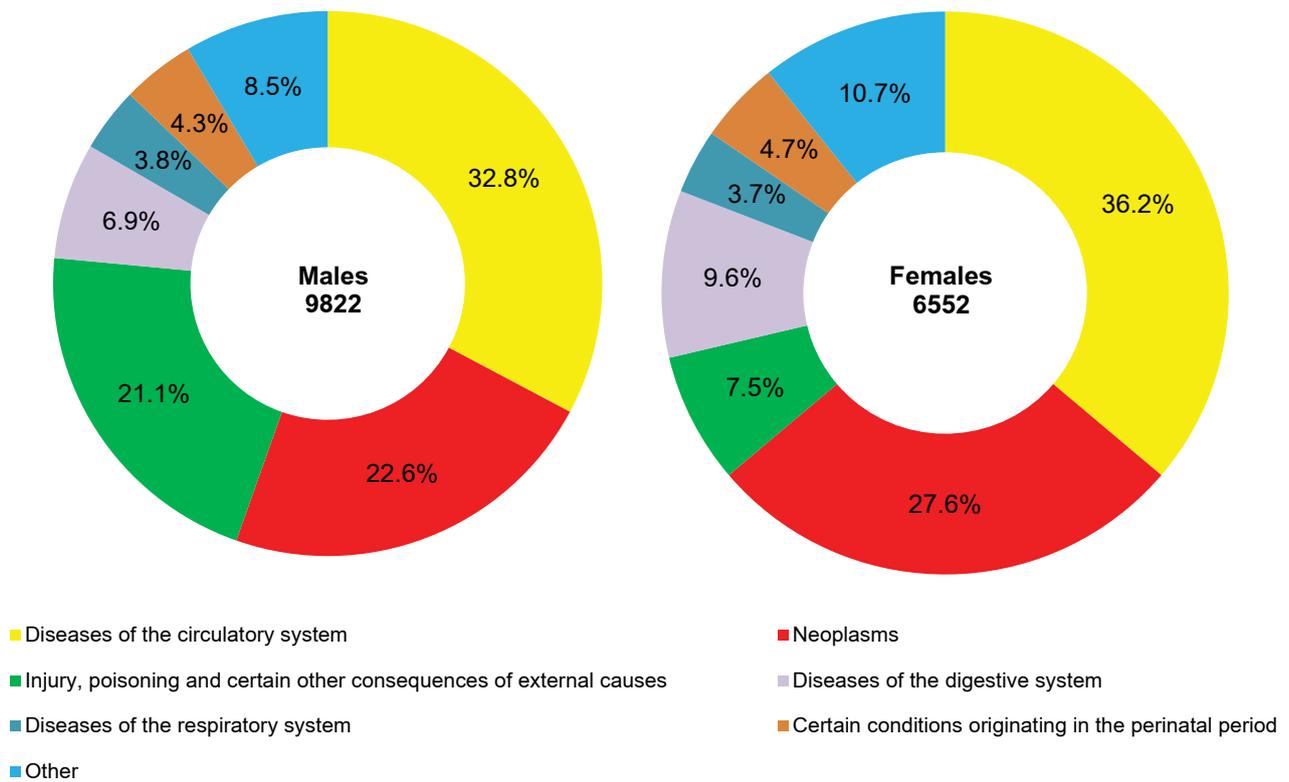
## Infant and Under 5 Mortality Rates /2005-2015/



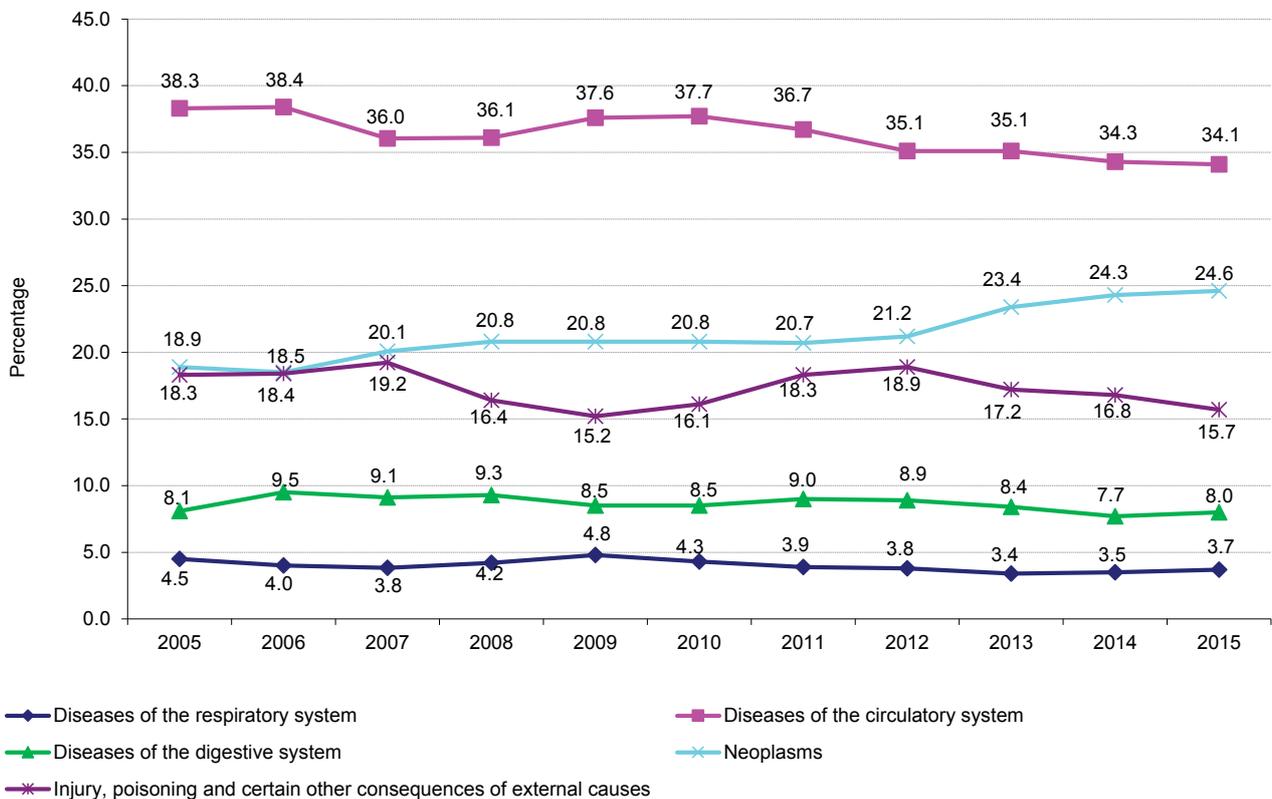
## DEATHS BY CAUSES AND SEX, 2015

| Main Causes ICD-10   | Total         |               | Males         |               | Females       |               |
|--|---------------|---------------|---------------|---------------|---------------|---------------|
|  | "Abs. number" | per 10000 pop | "Abs. number" | per 10000 pop | "Abs. number" | per 10000 pop |
| Diseases of the circulatory system                                     | 5591          | 18.47         | 3217          | 21.66         | 2374          | 15.40         |
| Neoplasms  | 4028          | 13.31         | 2221          | 14.96         | 1807          | 11.72         |
| Injury, poisoning and certain other consequences of external causes    | 2563          | 8.47          | 2070          | 13.94         | 493           | 3.20          |
| Diseases of the digestive system                                       | 1311          | 4.33          | 681           | 4.59          | 630           | 4.09          |
| Diseases of the respiratory system                                     | 613           | 2.03          | 369           | 2.48          | 244           | 1.58          |
| Certain conditions originating in the perinatal period                 | 735           | 2.43          | 425           | 2.86          | 310           | 2.01          |
| Certain infectious and parasitic diseases                              | 328           | 1.08          | 223           | 1.50          | 105           | 0.68          |
| Diseases of the nervous system and sense organs                        | 306           | 1.01          | 195           | 1.31          | 111           | 0.72          |
| Diseases of the genito-urinary system                                  | 268           | 0.89          | 139           | 0.94          | 128           | 0.83          |
| "Congenital malformations, deformations and chromosomal abnormalities" | 163           | 0.54          | 91            | 0.61          | 72            | 0.47          |
| Others   | 468           | 1.55          | 191           | 1.29          | 278           | 1.80          |
| <b>Total</b>   | <b>16374</b>  | <b>54.10</b>  | <b>9822</b>   | <b>66.14</b>  | <b>6552</b>   | <b>42.49</b>  |

### Main Causes of Death, by Sex, 2015



### Five Leading Causes of Death 2005-2015



## FIVE LEADING CAUSES OF DEATH (BY AIMAG), 2015

| №         | Aimags, city           | per 10000 population/              |              |   |                                  |                                    |
|-----------|------------------------|------------------------------------|--------------|---|----------------------------------|------------------------------------|
|           |                        | Diseases of the circulatory system | Neoplasms    | Injury, poisoning and certain other consequences of external causes | Diseases of the digestive system | Diseases of the respiratory system |
| 1         | Arkhangai              | 20.96                              | 11.34        | 9.18  | 3.56                             | 1.94                               |
| 2         | Bayan-Ulgii            | 23.75                              | 10.14        | 3.48  | 3.69                             | 4.40                               |
| 3         | Bayankhongor           | 20.96                              | 14.01        | 6.95  | 5.15                             | 2.64                               |
| 4         | Bulgan                 | 23.90                              | 16.43        | 8.30  | 2.66                             | 1.49                               |
| 5         | Govi-Altai             | 20.72                              | 13.46        | 5.49  | 2.83                             | 0.89                               |
| 6         | Gobi-Sumber            | 16.57                              | 14.73        | 5.52  | 4.91                             | 2.46                               |
| 7         | Darkhan-Uul            | 20.31                              | 16.53        | 7.57  | 3.48                             | 0.80                               |
| 8         | Dornogovi              | 13.02                              | 12.09        | 11.47   | 4.80                             | 1.70                               |
| 9         | Dornod                 | 20.44                              | 17.27        | 8.97  | 5.67                             | 2.24                               |
| 10        | Dundgovi               | 21.18                              | 15.54        | 9.91  | 3.38                             | 1.13                               |
| 11        | Zavkhan                | 23.06                              | 14.89        | 5.16  | 2.72                             | 1.72                               |
| 12        | Orkhon                 | 20.70                              | 13.43        | 8.20  | 4.10                             | 1.33                               |
| 13        | Uvurkhangai            | 24.50                              | 9.85         | 7.99  | 4.35                             | 2.13                               |
| 14        | Umnugovi               | 17.96                              | 12.03        | 9.72  | 5.11                             | 2.47                               |
| 15        | Sukhbaatar             | 15.28                              | 17.00        | 6.53  | 3.61                             | 2.40                               |
| 16        | Selenge                | 20.52                              | 11.76        | 6.40  | 4.05                             | 1.04                               |
| 17        | Tuv                    | 22.16                              | 11.52        | 6.87  | 3.99                             | 1.33                               |
| 18        | Uvs                    | 18.78                              | 19.16        | 7.41  | 2.68                             | 2.43                               |
| 19        | Khovd                  | 16.61                              | 13.58        | 5.33  | 3.03                             | 1.82                               |
| 20        | Khovsgul               | 25.18                              | 16.21        | 7.47  | 2.91                             | 2.68                               |
| 21        | Khentii                | 18.77                              | 9.32         | 5.42  | 6.54                             | 3.06                               |
| <b>22</b> | <b>Aimags average</b>  | <b>20.76</b>                       | <b>13.63</b> | <b>7.27</b>   | <b>3.92</b>                      | <b>2.02</b>                        |
| 23        | Ulaanbaatar            | 15.74                              | 12.63        | 9.89  | 4.83                             | 2.03                               |
| <b>24</b> | <b>Country average</b> | <b>18.47</b>                       | <b>13.18</b> | <b>8.47</b>   | <b>4.33</b>                      | <b>2.03</b>                        |

## CAUSES OF INFANT AND UNDER 5 DEATHS, 2015

| Diseases group according to ICD-10                                   | 0-1 age       |              | under 5       |              |
|--|---------------|--------------|---------------|--------------|
|  | "Abs. number" | %            | "Abs. number" | %            |
| Certain conditions originating in the perinatal period               | 735           | 596          | 735           | 49.8         |
| Diseases of the respiratory system                                   | 149           | 12.1         | 196           | 13.3         |
| Congenital malformations, deformations and chromosomal abnormalities | 128           | 10.4         | 143           | 9.7          |
| Injury, poisoning and certain other consequences of external causes  | 69            | 5.6          | 196           | 13.3         |
| Diseases of the digestive system                                     | 36            | 2.9          | 49            | 3.3          |
| Diseases of the nervous system and sense organs                      | 46            | 3.7          | 63            | 4.3          |
| Certain infectious and parasitic diseases                            | 32            | 2.6          | 34            | 2.3          |
| Other  | 39            | 3.2          | 60            | 4.1          |
| <b>Total</b>   | <b>1234</b>   | <b>100.0</b> | <b>1476</b>   | <b>100.0</b> |

## CAUSES OF INFANT MORTALITY (2011-2015)

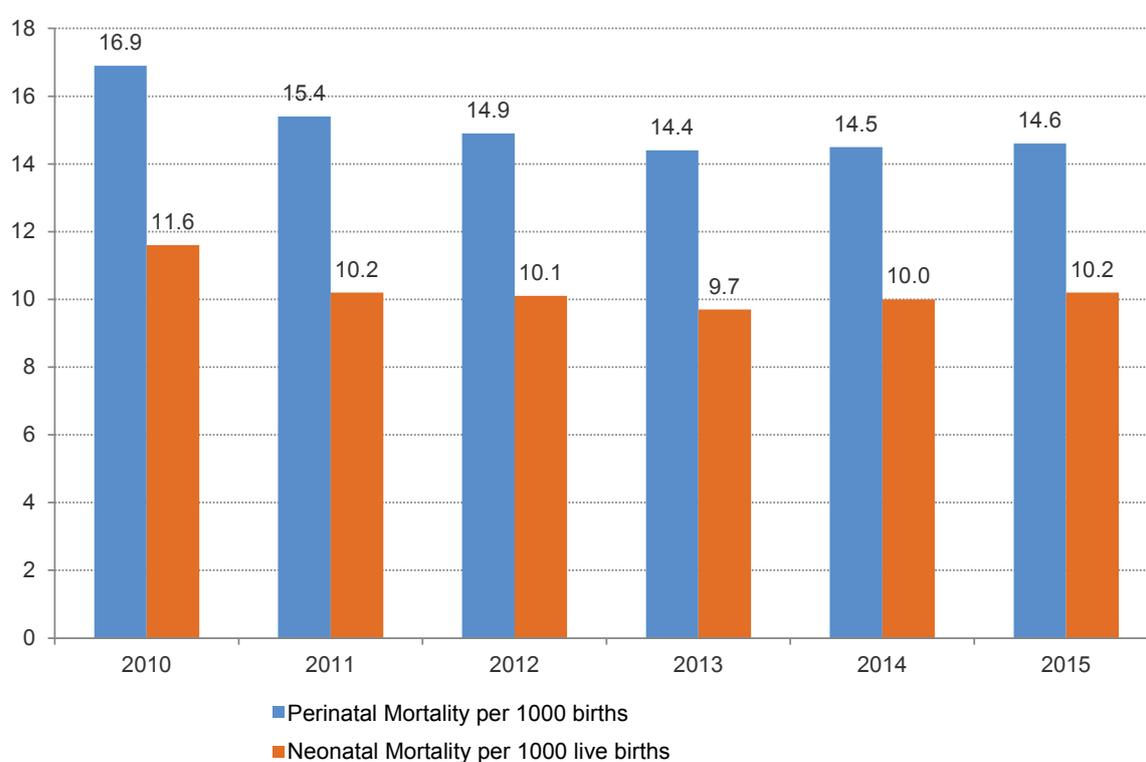
| Causes   | 2011 | 2012 | 2013 | 2014 | 2015 |
|--|------|------|------|------|------|
| Certain conditions originating in the perinatal period               | 49.8 | 54.8 | 52.9 | 55.3 | 59.6 |
| Diseases of the respiratory system                                   | 20.7 | 17.8 | 15.7 | 14.2 | 12.1 |
| Congenital malformations, deformations and chromosomal abnormalities | 12.3 | 12.2 | 15.1 | 13.3 | 10.4 |
| Injury, poisoning and certain other consequences of external causes  | 6.2  | 5.5  | 6.9  | 6.6  | 5.6  |
| Diseases of the digestive system                                     | 4.3  | 2.1  | 2.7  | 2.7  | 2.9  |
| Diseases of the nervous system and sense organs                      | 4.3  | 4.3  | 4.4  | 4.2  | 3.7  |
| Certain infectious and parasitic diseases                            | 0.6  | 0.9  | 1.1  | 1.2  | 2.6  |

- The Leading cause
- The Second Leading cause
- The Third Leading cause
- The Fourth leading cause
- The Fifth leading cause

## INFANT MORTALITY, 2015

| Causes   | Rate |
|--|------|
| Infant mortality rate per 1000 live births         | 15.3 |
| Early neonatal mortality rate per 1000 live births | 7.8  |
| Post neonatal mortality rate per 1000 live births  | 2.4  |
| Neonatal mortality rate per 1000 live births       | 10.2 |
| Perinatal mortality rate per 1000 births           | 14.6 |

### Infant Mortality, /2012-2015/



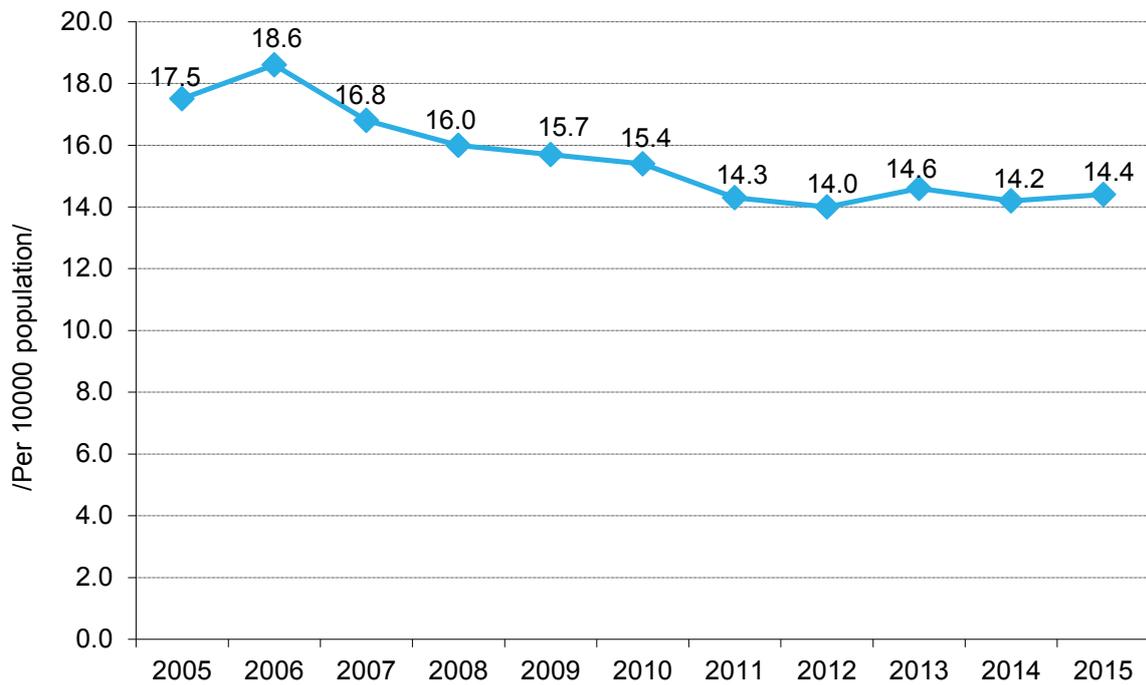
## INFANT MORTALITY, 2015

| No        | Aimags and city        | "Perinatal mortality per 1000 births" | Still births per 1000 births | Neonatal mortality per 1000 live births | Early neonatal mortality per 1000 live births | Post neonatal mortality per 1000 live births |
|-----------|------------------------|---------------------------------------|------------------------------|---|---|--|
|           | A                      | 1                                     | 2                            | 3                                       | 4   | 5  |
| 1         | Arkhangai              | 9.7                                   | 5.3                          | 8.3                                     | 4.4   | 3.9  |
| 2         | Bayan-Ulgii            | 16.9                                  | 6.8                          | 12.6                                    | 10.1  | 2.5  |
| 3         | Bayankhongor           | 14.0                                  | 7.4                          | 8.0                                     | 6.6   | 1.4  |
| 4         | Bulgan                 | 16.1                                  | 4.0                          | 13.1                                    | 12.1  | 1.0  |
| 5         | Govi-Altai             | 9.2                                   | 3.9                          | 9.3                                     | 5.4   | 3.9  |
| 6         | Gobi-Sumber            | 8.9                                   | 4.5                          | 9.0                                     | 4.5   | 4.5  |
| 7         | Darkhan-Uul            | 9.4                                   | 3.4                          | 8.3                                     | 6.1   | 2.3  |
| 8         | Dornogovi              | 9.7                                   | 1.9                          | 11.0                                    | 7.7   | 3.2  |
| 9         | Dornod                 | 9.1                                   | 4.5                          | 6.1                                     | 4.6   | 1.5  |
| 10        | Dundgovi               | 4.0                                   | 1.0                          | 3.0                                     | 3.0   | 0.0  |
| 11        | Zavkhan                | 17.6                                  | 7.9                          | 15.9                                    | 9.8   | 6.1  |
| 12        | Orkhon                 | 13.3                                  | 5.2                          | 8.9                                     | 8.2   | 0.7  |
| 13        | Uvurkhangai            | 11.6                                  | 5.4                          | 8.7                                     | 6.2   | 2.5  |
| 14        | Umnugovi               | 16.5                                  | 8.6                          | 10.0                                    | 8.0   | 2.0  |
| 15        | Sukhbaatar             | 16.4                                  | 7.1                          | 12.2                                    | 9.3   | 2.9  |
| 16        | Selenge                | 7.6                                   | 3.6                          | 6.1                                     | 4.1   | 2.0  |
| 17        | Tuv                    | 19.4                                  | 13.2                         | 7.1                                     | 6.3   | 0.8  |
| 18        | Uvs                    | 14.9                                  | 4.0                          | 11.9                                    | 11.0  | 1.0  |
| 19        | Khovd                  | 19.3                                  | 8.6                          | 13.0                                    | 10.8  | 2.2  |
| 20        | Khuvsgul               | 18.4                                  | 6.0                          | 14.1                                    | 12.5  | 1.6  |
| 21        | Khentii                | 12.8                                  | 7.9                          | 6.1                                     | 4.9   | 1.2  |
| <b>22</b> | <b>Aimags average</b>  | <b>13.5</b>                           | <b>5.8</b>                   | <b>9.9</b>                              | <b>7.7</b>                                    | <b>2.2</b>                                   |
| 23        | Ulaanbaatar            | 15.6                                  | 7.8                          | 10.4                                    | 7.8   | 2.6  |
| <b>24</b> | <b>Country average</b> | <b>14.6</b>                           | <b>6.8</b>                   | <b>10.2</b>                             | <b>7.8</b>                                    | <b>2.4</b>                                   |

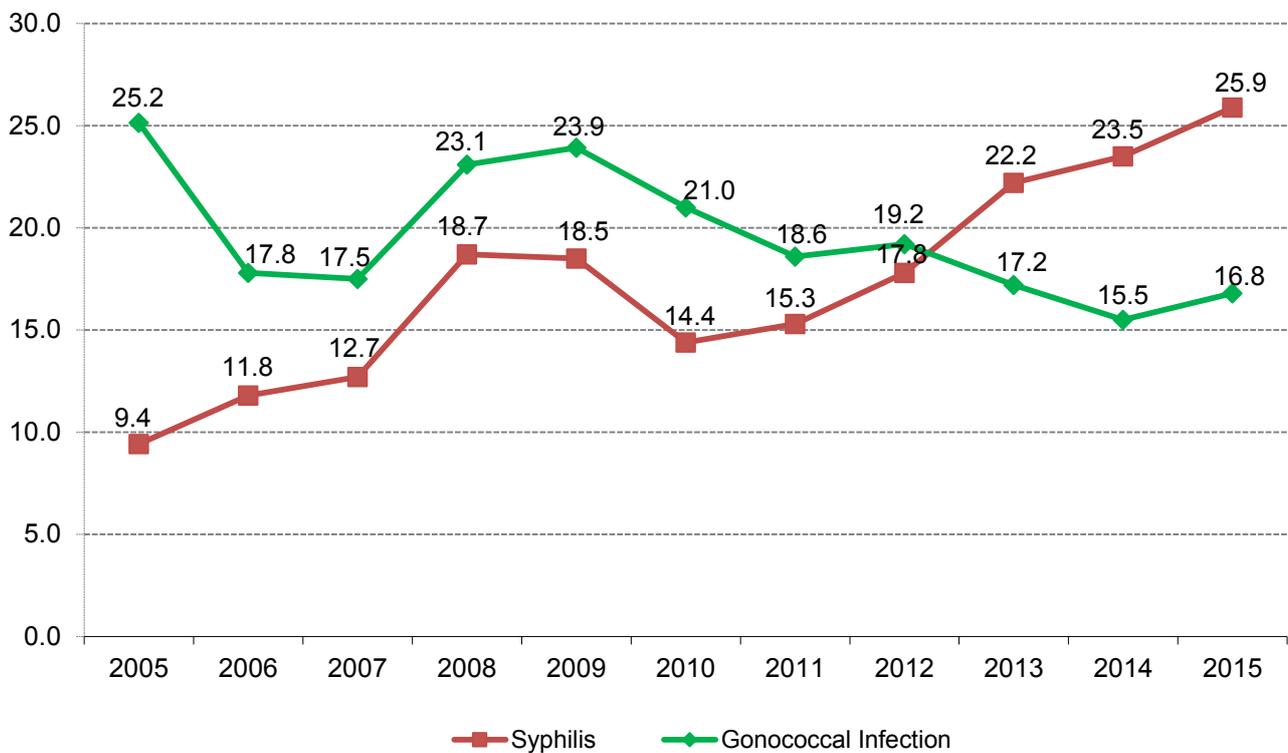
**“REGISTERED REPORTABLE INFECTIOUS DISEASES, PER 10 000 POPULATION,  
(2011-2015)”**

| Certain infectious and parasitic diseases | Per 10000 population |      |      |      |      |
|---|----------------------|------|------|------|------|
|   | 2011                 | 2012 | 2013 | 2014 | 2015 |
| Typhoid and paratyphoid fevers            | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0  |
| Salmonella infections                     | 0.4                  | 0.4  | 0.3  | 0.3  | 0.5  |
| Shigellosis                               | 7.6                  | 7.4  | 7.0  | 7.9  | 9.2  |
| Tuberculosis                              | 14.3                 | 14.2 | 14.6 | 14.2 | 14.4 |
| Plague                                    | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0  |
| Anthrax                                   | 0.1                  | 0.0  | 0.0  | 0.0  | 0.0  |
| Brucellosis                               | 1.4                  | 1.6  | 1.3  | 0.9  | 1.0  |
| Scarlet fever                             | 0.2                  | 0.3  | 1.0  | 0.9  | 2.5  |
| Meningococcal infection                   | 0.1                  | 0.1  | 0.1  | 0.0  | 0.0  |
| Varicella                                 | 11.1                 | 10.1 | 16.6 | 15.8 | 19.0 |
| Measles                                   | 0.0                  | 0.0  | 0.0  | 0.0  | 79.2 |
| Rubella                                   | 0.1                  | 0.8  | 0.1  | 0.0  | 0.2  |
| Viral hepatitis                           | 52.8                 | 24.7 | 9.0  | 3.9  | 3.0  |
| Viral hepatitis A                         | 49.0                 | 21.2 | 5.7  | 1.1  | 0.3  |
| Viral hepatitis B                         | 2.7                  | 2.3  | 2.2  | 2.0  | 1.6  |
| Viral hepatitis C                         | 0.5                  | 0.6  | 0.4  | 0.4  | 0.4  |
| Mumps                                     | 3.7                  | 32.6 | 18.7 | 1.5  | 0.8  |
| Mycoses                                   | 7.9                  | 6.2  | 4.0  | 6.5  | 5.8  |
| Syphilis                                  | 15.3                 | 17.8 | 22.2 | 23.5 | 25.9 |
| Gonococcal infection                      | 18.6                 | 19.2 | 17.2 | 15.5 | 16.8 |
| Trichomoniasis                            | 14.4                 | 15.0 | 13.5 | 13.0 | 13.6 |

## Incidence of Tuberculosis /2005-2015/



## Incidence of Syphilis and Gonococcal Infections /2005-2015/



## Prevalence, Incidence and Death Rates of Malignant Neoplasms, 2015

| "Malignant neoplasms"           | №         | Prevalence   |               | Incidence   |             |             |                      |             |             | Deaths      |             |             |                      |             |             |
|---------------------------------|-----------|--------------|---------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|
|                                 |           | Abs.number   | per 10000 pop | Abs.number  |             |             | per 10000 population |             |             | Abs.number  |             |             | per 10000 population |             |             |
|                                 |           |              |               | Total       | Males       | Females     | Total                | Males       | Females     | Total       | Males       | Females     | Total                | Males       | Females     |
| A                               | B         | 1            | 2             | 3           | 4           | 5           | 6                    | 7           | 8           | 9           | 10          | 11          | 12                   | 13          | 14          |
| Lip, oral cavity and pharynx    | 1         | 449          | 1.5           | 91          | 51          | 40          | 0.3                  | 0.3         | 0.3         | 61          | 36          | 25          | 0.2                  | 0.2         | 0.2         |
| Oesophagus                      | 2         | 879          | 2.9           | 366         | 186         | 180         | 1.2                  | 1.3         | 1.2         | 287         | 155         | 132         | 0.9                  | 1.0         | 0.9         |
| Stomach                         | 3         | 2505         | 8.3           | 817         | 546         | 271         | 2.7                  | 3.7         | 1.8         | 634         | 425         | 209         | 2.1                  | 2.9         | 1.4         |
| Colon                           | 4         | 495          | 1.6           | 137         | 66          | 71          | 0.5                  | 0.4         | 0.5         | 83          | 45          | 38          | 0.3                  | 0.3         | 0.2         |
| Rectus and anus                 | 5         | 179          | 0.6           | 51          | 27          | 24          | 0.2                  | 0.2         | 0.2         | 25          | 12          | 13          | 0.1                  | 0.1         | 0.1         |
| Liver                           | 6         | 5398         | 17.8          | 2176        | 1158        | 1018        | 7.2                  | 7.8         | 6.6         | 1658        | 906         | 752         | 5.5                  | 6.1         | 4.9         |
| Pancreas                        | 7         | 305          | 1.0           | 164         | 91          | 73          | 0.5                  | 0.6         | 0.5         | 132         | 71          | 61          | 0.4                  | 0.5         | 0.4         |
| Other in digestive organs       | 8         | 18           | 0.1           | 2           | 2           | 0           | 0.0                  | 0.0         | 0.0         | 1           | 1           | 0           | 0.0                  | 0.0         | 0.0         |
| Larynx                          | 9         | 137          | 0.5           | 23          | 20          | 3           | 0.1                  | 0.1         | 0.0         | 16          | 12          | 4           | 0.1                  | 0.1         | 0.0         |
| Trachea                         | 10        | 34           | 0.1           | 13          | 9           | 4           | 0.0                  | 0.1         | 0.0         | 9           | 3           | 6           | 0.0                  | 0.0         | 0.0         |
| Lung                            | 11        | 856          | 2.8           | 399         | 319         | 80          | 1.3                  | 2.1         | 0.5         | 354         | 283         | 71          | 1.2                  | 1.9         | 0.5         |
| Other in the respiratory system | 12        | 43           | 0.1           | 23          | 17          | 6           | 0.1                  | 0.1         | 0.0         | 18          | 14          | 4           | 0.1                  | 0.1         | 0.0         |
| Bone and articular cartilage    | 13        | 254          | 0.8           | 42          | 27          | 15          | 0.1                  | 0.2         | 0.1         | 37          | 20          | 17          | 0.1                  | 0.1         | 0.1         |
| Skin                            | 14        | 242          | 0.8           | 40          | 17          | 23          | 0.1                  | 0.1         | 0.1         | 20          | 11          | 9           | 0.1                  | 0.1         | 0.1         |
| Mesothelial and soft tissue     | 15        | 185          | 0.6           | 45          | 20          | 25          | 0.1                  | 0.1         | 0.2         | 34          | 17          | 17          | 0.1                  | 0.1         | 0.1         |
| Breast                          | 16        | 1218         | 4.0           | 218         | 1           | 217         | 0.7                  | 0.0         | 1.4         | 65          | 1           | 64          | 0.2                  | 0.0         | 0.4         |
| Cervix uteri                    | 17        | 3399         | 11.2          | 426         | 0           | 426         | 1.4                  | 0.0         | 2.8         | 165         | 0           | 165         | 0.5                  | 0.0         | 1.1         |
| Uterus                          | 18        | 163          | 0.5           | 11          | 0           | 11          | 0.0                  | 0.0         | 0.1         | 7           | 0           | 7           | 0.0                  | 0.0         | 0.0         |
| Ovary                           | 19        | 474          | 1.6           | 95          | 0           | 95          | 0.3                  | 0.0         | 0.6         | 60          | 0           | 60          | 0.2                  | 0.0         | 0.4         |
| Other female genital organs     | 20        | 124          | 0.4           | 6           | 0           | 6           | 0.0                  | 0.0         | 0.0         | 10          | 0           | 10          | 0.0                  | 0.0         | 0.1         |
| Male genital organs             | 21        | 264          | 0.9           | 49          | 49          | 0           | 0.2                  | 0.3         | 0.0         | 34          | 34          | 0           | 0.1                  | 0.2         | 0.0         |
| Cyst                            | 22        | 161          | 0.5           | 55          | 43          | 12          | 0.2                  | 0.3         | 0.1         | 19          | 14          | 5           | 0.1                  | 0.1         | 0.0         |
| Urology, nephrology             | 23        | 632          | 2.1           | 151         | 86          | 65          | 0.5                  | 0.6         | 0.4         | 48          | 29          | 19          | 0.2                  | 0.2         | 0.1         |
| Other urinary organs            | 24        | 52           | 0.2           | 5           | 2           | 3           | 0.0                  | 0.0         | 0.0         | 5           | 4           | 1           | 0.0                  | 0.0         | 0.0         |
| Ophtalmology                    | 25        | 67           | 0.2           | 39          | 26          | 13          | 0.1                  | 0.2         | 0.1         | 2           | 1           | 1           | 0.0                  | 0.0         | 0.0         |
| Brain                           | 26        | 294          | 1.0           | 76          | 36          | 40          | 0.3                  | 0.2         | 0.3         | 54          | 28          | 26          | 0.2                  | 0.2         | 0.2         |
| Luekaemia                       | 27        | 108          | 0.4           | 47          | 24          | 23          | 0.2                  | 0.2         | 0.1         | 32          | 17          | 15          | 0.1                  | 0.1         | 0.1         |
| Other                           | 28        | 1068         | 3.5           | 210         | 78          | 132         | 0.7                  | 0.5         | 0.9         | 129         | 58          | 71          | 0.4                  | 0.4         | 0.5         |
| <b>Total</b>                    | <b>29</b> | <b>20003</b> | <b>66.1</b>   | <b>5777</b> | <b>2901</b> | <b>2876</b> | <b>19.1</b>          | <b>19.5</b> | <b>18.7</b> | <b>3999</b> | <b>2197</b> | <b>1802</b> | <b>13.2</b>          | <b>14.8</b> | <b>11.7</b> |

\* Source: National Center for Cancer, 2015 report.

### “Prevalence, Incidence and Deaths of Malignant Neoplasms, 2015 ( by aimag)”

| №  | Aimag and city         | Prevalence   |               | Incidence   |             |             |                      |             |             | Deaths      |             |             |                      |             |             |
|----|------------------------|--------------|---------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|
|    |                        | Abs.number   | per 10000 pop | Abs.number  |             |             | per 10000 population |             |             | Abs.number  |             |             | per 10000 population |             |             |
|    |                        |              |               | Total       | Males       | Females     | Total                | Males       | Females     | Total       | Males       | Females     | Total                | Males       | Females     |
| 1  | Arkhangai              | 603          | 65.1          | 237         | 115         | 122         | 25.6                 | 24.9        | 26.3        | 123         | 66          | 57          | 13.3                 | 14.3        | 12.3        |
| 2  | Bayan-Ulgii            | 339          | 34.7          | 121         | 66          | 55          | 12.4                 | 13.5        | 11.3        | 99          | 53          | 46          | 10.1                 | 10.9        | 9.4         |
| 3  | Bayankhongor           | 415          | 49.7          | 139         | 71          | 68          | 16.6                 | 17.2        | 16.1        | 120         | 67          | 53          | 14.4                 | 16.2        | 12.5        |
| 4  | Bulgan                 | 471          | 78.2          | 151         | 81          | 70          | 25.1                 | 26.4        | 23.6        | 108         | 68          | 40          | 17.9                 | 22.2        | 13.5        |
| 5  | Govi-Altai             | 466          | 82.5          | 145         | 75          | 70          | 25.7                 | 26.7        | 24.6        | 92          | 52          | 40          | 16.3                 | 18.5        | 14.1        |
| 6  | Gobi-Sumber            | 99           | 60.8          | 28          | 12          | 16          | 17.2                 | 14.7        | 19.6        | 25          | 14          | 11          | 15.3                 | 17.2        | 13.5        |
| 7  | Darkhan-Uul            | 831          | 82.7          | 230         | 112         | 118         | 22.9                 | 22.7        | 23.1        | 159         | 88          | 71          | 15.8                 | 17.9        | 13.9        |
| 8  | Dornogovi              | 374          | 58.0          | 115         | 68          | 47          | 17.8                 | 21.1        | 14.6        | 81          | 54          | 27          | 12.6                 | 16.7        | 8.4         |
| 9  | Dornod                 | 601          | 79.3          | 178         | 98          | 80          | 23.5                 | 25.8        | 21.2        | 149         | 80          | 69          | 19.6                 | 21.0        | 18.3        |
| 10 | Dundgovi               | 345          | 77.7          | 118         | 57          | 61          | 26.6                 | 25.5        | 27.7        | 89          | 45          | 44          | 20.0                 | 20.1        | 20.0        |
| 11 | Zavkhan                | 541          | 77.5          | 147         | 82          | 65          | 21.1                 | 23.5        | 18.6        | 114         | 72          | 42          | 16.3                 | 20.6        | 12.0        |
| 12 | Orkhon                 | 711          | 72.9          | 191         | 106         | 85          | 19.6                 | 22.2        | 17.1        | 134         | 79          | 55          | 13.7                 | 16.5        | 11.1        |
| 13 | Uvurkhngai             | 627          | 55.6          | 172         | 90          | 82          | 15.3                 | 16.0        | 14.5        | 125         | 69          | 56          | 11.1                 | 12.3        | 9.9         |
| 14 | Umnugovi               | 404          | 66.6          | 93          | 50          | 43          | 15.3                 | 16.5        | 14.2        | 79          | 40          | 39          | 13.0                 | 13.2        | 12.9        |
| 15 | Sukhbaatar             | 386          | 66.3          | 133         | 72          | 61          | 22.8                 | 24.5        | 21.1        | 108         | 67          | 41          | 18.5                 | 22.8        | 14.2        |
| 16 | Selenge                | 807          | 76.0          | 232         | 120         | 112         | 21.8                 | 22.3        | 21.3        | 135         | 73          | 62          | 12.7                 | 13.6        | 11.8        |
| 17 | Tuv                    | 719          | 79.7          | 199         | 109         | 90          | 22.0                 | 23.5        | 20.5        | 169         | 96          | 73          | 18.7                 | 20.7        | 16.6        |
| 18 | Uvs                    | 606          | 77.4          | 236         | 116         | 120         | 30.1                 | 29.5        | 30.8        | 165         | 95          | 70          | 21.1                 | 24.2        | 18.0        |
| 19 | Khovd                  | 516          | 62.5          | 162         | 90          | 72          | 19.6                 | 21.9        | 17.4        | 117         | 71          | 46          | 14.2                 | 17.2        | 11.1        |
| 20 | Khuvsgul               | 850          | 66.9          | 275         | 158         | 117         | 21.6                 | 25.1        | 18.2        | 205         | 120         | 85          | 16.1                 | 19.1        | 13.3        |
| 21 | Khentii                | 487          | 67.7          | 156         | 86          | 70          | 21.7                 | 23.8        | 19.6        | 83          | 50          | 33          | 11.5                 | 13.8        | 9.2         |
| 22 | <b>Aimag average</b>   | <b>11198</b> | <b>68.0</b>   | <b>3458</b> | <b>1834</b> | <b>1624</b> | <b>21.0</b>          | <b>22.3</b> | <b>19.7</b> | <b>2479</b> | <b>1419</b> | <b>1060</b> | <b>15.0</b>          | <b>17.2</b> | <b>12.9</b> |
| 23 | Ulaanbaatar            | 8805         | 63.8          | 2319        | 1067        | 1252        | 16.8                 | 16.1        | 17.4        | 1520        | 778         | 742         | 11.0                 | 11.8        | 10.3        |
| 24 | <b>Country average</b> | <b>20003</b> | <b>66.1</b>   | <b>5777</b> | <b>2901</b> | <b>2876</b> | <b>19.1</b>          | <b>19.5</b> | <b>18.7</b> | <b>3999</b> | <b>2197</b> | <b>1802</b> | <b>13.2</b>          | <b>14.8</b> | <b>11.7</b> |

\* Source: National Center for Cancer, 2015 report.

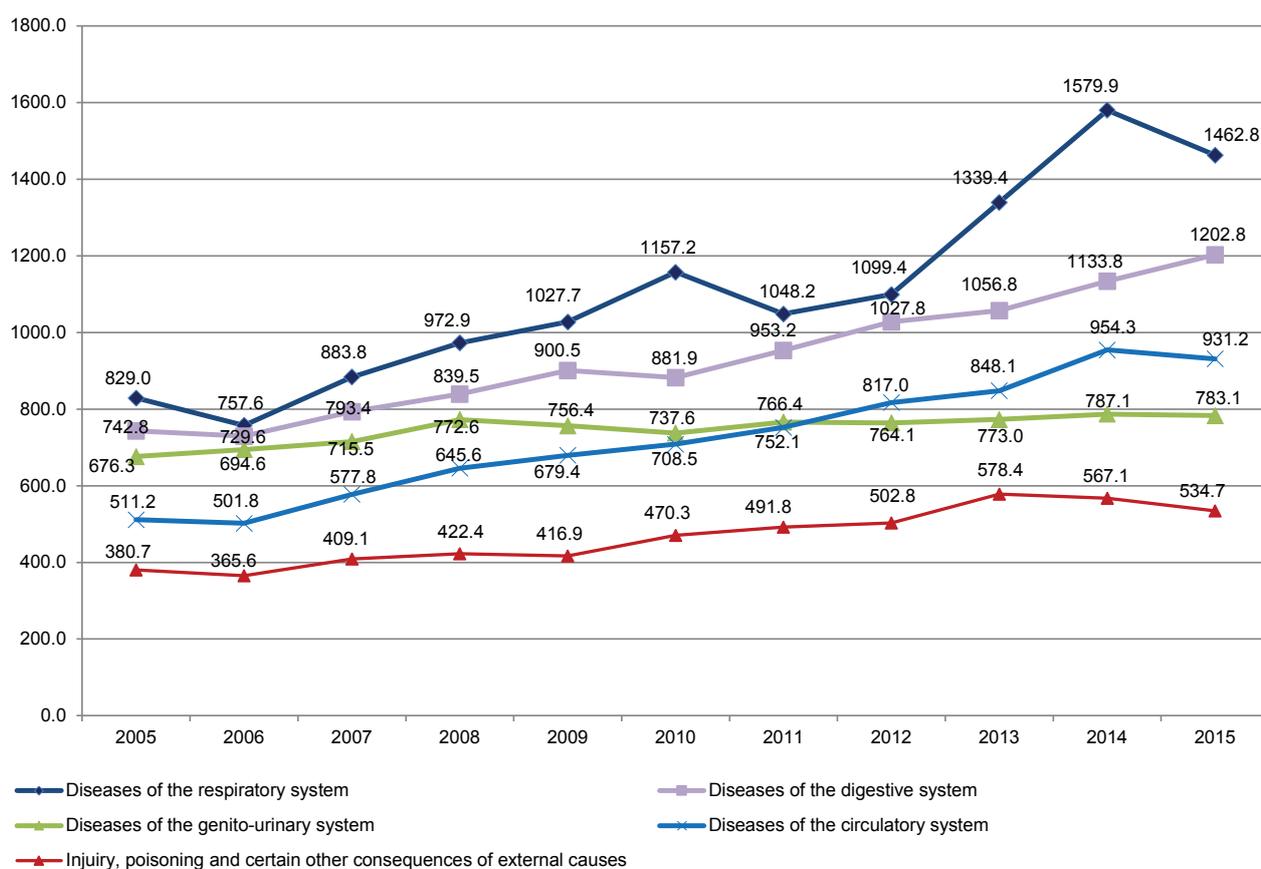
## Main 5 Causes of the Outpatient Morbidity, 2015

| Aimags and city        | per 10000 population               |                                  |                                |                                    |   |
|------------------------|------------------------------------|----------------------------------|--------------------------------|------------------------------------|---|
|                        | Diseases of the respiratory system | Diseases of the digestive system | Diseases of the urinary system | Diseases of the circulatory system | Injury, poisoning and certain other consequences of external causes |
| Arkhangai              | 1568.50                            | 1431.63                          | 1200.25                        | 1307.73                            | 249.97  |
| Bayan-Ulgii            | 958.43                             | 667.86                           | 698.47                         | 648.31                             | 107.10  |
| Bayankhongor           | 1804.53                            | 1509.04                          | 1158.46                        | 1256.92                            | 256.32  |
| Bulgan                 | 1715.40                            | 1401.07                          | 1099.51                        | 1632.09                            | 176.75  |
| Govi-Altai             | 957.11                             | 1041.93                          | 736.47                         | 793.49                             | 265.09  |
| Gobi-Sumber            | 2202.58                            | 877.23                           | 570.90                         | 779.01                             | 507.67  |
| Darkhan-Uul            | 1435.44                            | 1576.42                          | 721.21                         | 1095.65                            | 419.24  |
| Dornogovi              | 1753.40                            | 1310.71                          | 1156.23                        | 846.17                             | 466.09  |
| Dornod                 | 1688.93                            | 2137.40                          | 605.92                         | 581.26                             | 326.10  |
| Dundgovi               | 1203.42                            | 988.51                           | 562.74                         | 757.38                             | 124.80  |
| Zavkhan                | 974.02                             | 1162.49                          | 673.26                         | 683.15                             | 105.12  |
| Orkhon                 | 2000.18                            | 757.56                           | 566.53                         | 632.23                             | 225.47  |
| Uvurkhangai            | 975.13                             | 1369.37                          | 945.57                         | 977.17                             | 345.78  |
| Umnugovi               | 2283.17                            | 1850.86                          | 830.17                         | 1199.19                            | 316.94  |
| Sukhbaatar             | 1796.54                            | 1530.69                          | 566.56                         | 974.61                             | 284.05  |
| Selenge                | 1035.27                            | 582.48                           | 651.66                         | 776.17                             | 198.40  |
| Tuv                    | 1910.84                            | 1881.70                          | 897.81                         | 1113.40                            | 152.55  |
| Uvs                    | 1651.05                            | 1474.24                          | 921.34                         | 966.69                             | 183.83  |
| Khovd                  | 1003.42                            | 843.66                           | 796.14                         | 851.54                             | 108.97  |
| Khuvsgul               | 1150.97                            | 740.59                           | 589.53                         | 961.83                             | 177.18  |
| Khentii                | 1404.11                            | 967.04                           | 609.37                         | 891.11                             | 272.70  |
| <b>Aimags average</b>  | <b>1444.57</b>                     | <b>1227.16</b>                   | <b>795.39</b>                  | <b>942.03</b>                      | <b>240.27</b>   |
| Ulaanbaatar            | 1484.45                            | 1173.75                          | 769.66                         | 918.17                             | 886.13  |
| <b>Country average</b> | <b>1462.75</b>                     | <b>1202.82</b>                   | <b>783.67</b>                  | <b>931.16</b>                      | <b>534.65</b>   |

## Outpatient and Inpatient Morbidity, 2015

| №  | ICD-10  | Outpatient morbidity |                      |              | Inpatient morbidity |                      |              |
|----|---|----------------------|----------------------|--------------|---------------------|----------------------|--------------|
|    |   | Incidence            | Per 10000 population | Percentage   | Incidence           | Per 10000 population | Percentage   |
| 1  | Diseases of the respiratory system                                  | 442754               | 1462.75              | 19.1         | 104597              | 345.56               | 13.3         |
| 2  | Diseases of the digestive system                                    | 364076               | 1202.82              | 15.7         | 100134              | 330.82               | 12.8         |
| 3  | Diseases of the genito-urinary system                               | 237205               | 783.67               | 10.2         | 90860               | 300.18               | 11.6         |
| 4  | Diseases of the circulatory system                                  | 281848               | 931.16               | 12.2         | 116131              | 383.67               | 14.8         |
| 5  | Injury, poisoning and certain other consequences of external causes | 161831               | 534.65               | 7.0          | 32491               | 107.34               | 4.1          |
| 6  | Certain infectious and parasitic diseases                           | 62233                | 205.60               | 2.7          | 27341               | 90.33                | 3.5          |
| 7  | Diseases of the nervous system and sense organs                     | 143476               | 474.01               | 6.2          | 56229               | 185.77               | 7.2          |
| 8  | Diseases of the musculoskeletal system and connective tissue        | 84520                | 279.23               | 3.7          | 36071               | 119.17               | 4.6          |
| 9  | Pregnancy, childbirth and the puerperium                            | 130500               | 431.14               | 5.6          | 127630              | 421.66               | 16.3         |
| 10 | Other   | 406956               | 1344.48              | 17.6         | 93397               | 308.56               | 11.9         |
| 11 | <b>Total</b>  | <b>2315399</b>       | <b>7649.50</b>       | <b>100.0</b> | <b>784881</b>       | <b>2593.05</b>       | <b>100.0</b> |

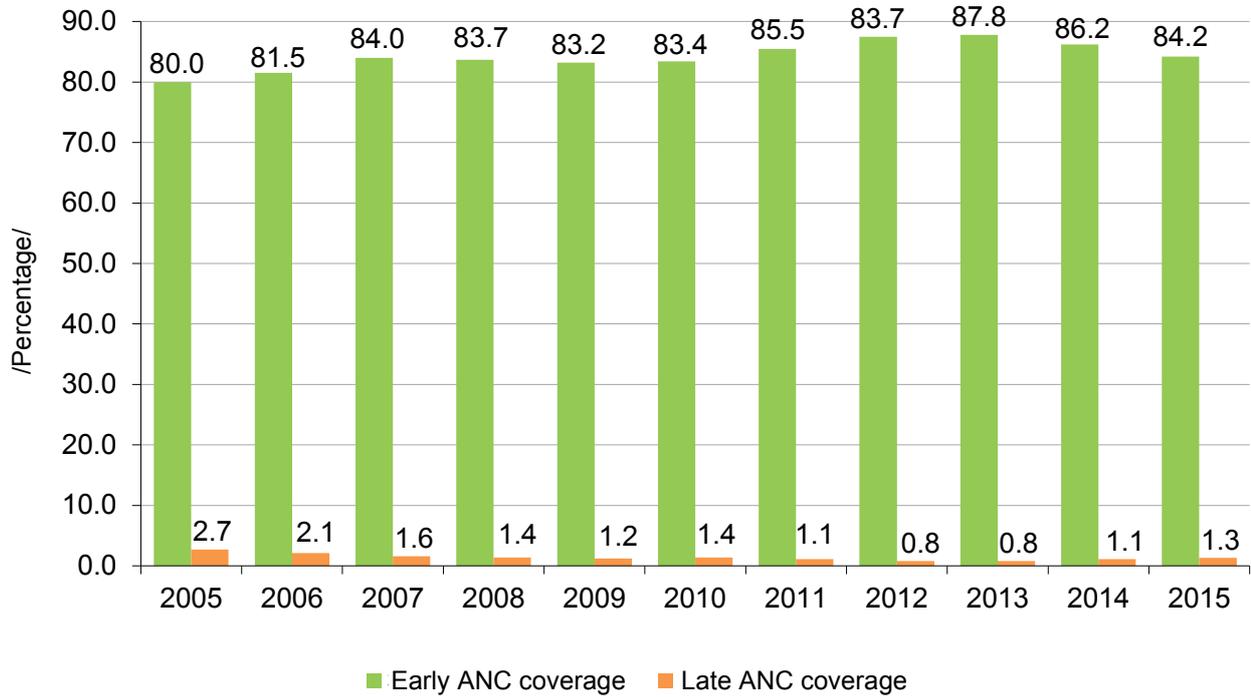
## Main 5 Causes of Morbidity (per 10000 population), 2005-2015



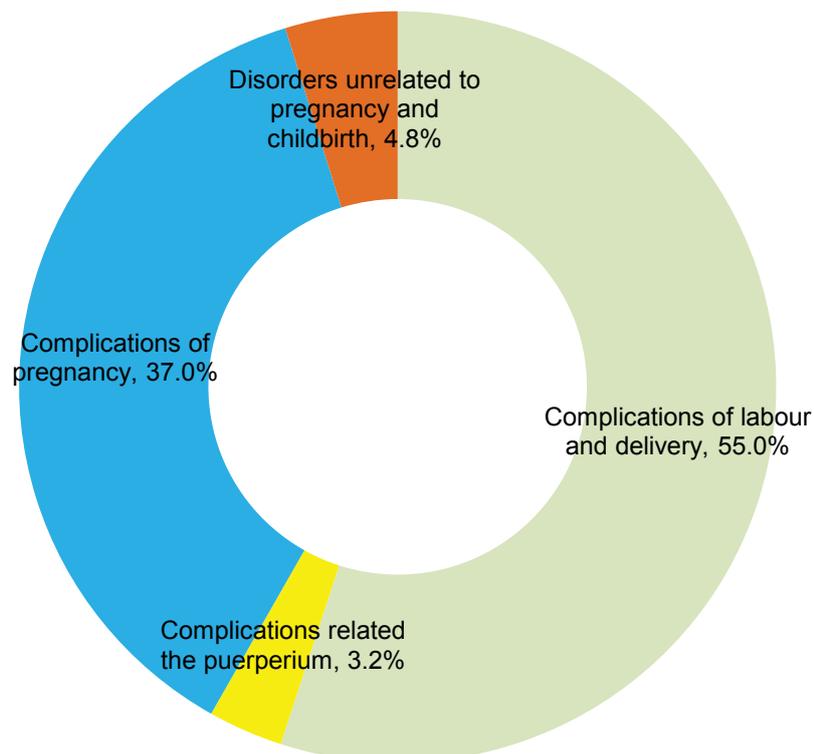
## Antenatal Health Care Coverage, 2015

| №  | Aimags and city        | ANC coverage       |             |                   | Percentage of pregnant women who attended to ANC 6 and more times | Percentage of pregnant women with anaemia | Percentage of teenage pregnancy | Percentage of pregnancies above 35 age |
|----|------------------------|--------------------|-------------|-------------------|---|---|---------------------------------|--|
|    |                        | Early ANC coverage | 4-6 month   | Late ANC coverage |   |   |                                 |  |
|    | A                      | 2                  |             | 3                 | 4   | 5   | 6                               | 7                                      |
| 1  | Arkhangai              | 87.2               | 11.9        | 0.9               | 92.5  | 4.6                                       | 4.9                             | 13.5                                   |
| 2  | Bayan-Ulgii            | 79.2               | 18.8        | 2.0               | 98.2  | 12.7                                      | 1.4                             | 14.2                                   |
| 3  | Bayankhongor           | 80.4               | 18.3        | 1.3               | 98.9  | 2.8                                       | 7.3                             | 12.7                                   |
| 4  | Bulgan                 | 83.8               | 14.4        | 1.8               | 95.3  | 1.4                                       | 4.7                             | 15.2                                   |
| 5  | Govi-Altai             | 87.3               | 12.0        | 0.7               | 83.3  | 1.6                                       | 4.1                             | 13.4                                   |
| 6  | Gobi-Sumber            | 87.7               | 12.3        | 0.0               | 99.5  | 2.7                                       | 7.8                             | 13.9                                   |
| 7  | Darkhan-Uul            | 74.1               | 24.1        | 1.8               | 66.5  | 7.1                                       | 7.2                             | 17.1                                   |
| 8  | Dornogovi              | 85.1               | 14.2        | 0.8               | 84.8  | 1.5                                       | 8.5                             | 13.6                                   |
| 9  | Dornod                 | 87.7               | 11.9        | 0.4               | 72.9  | 6.0                                       | 5.8                             | 15.1                                   |
| 10 | Dundgovi               | 82.0               | 15.7        | 2.3               | 84.7  | 0.2                                       | 5.7                             | 16.2                                   |
| 11 | Zavkhan                | 79.7               | 19.5        | 0.8               | 84.1  | 2.3                                       | 3.2                             | 16.3                                   |
| 12 | Orkhon                 | 92.1               | 7.7         | 0.2               | 66.9  | 11.6                                      | 4.3                             | 16.4                                   |
| 13 | Uvurkhangai            | 86.4               | 13.0        | 0.7               | 75.6  | 7.4                                       | 6.1                             | 14.5                                   |
| 14 | Umnugovi               | 84.3               | 14.8        | 0.9               | 95.1  | 1.7                                       | 5.9                             | 10.9                                   |
| 15 | Sukhbaatar             | 86.1               | 12.9        | 1.0               | 94.8  | 2.0                                       | 4.7                             | 13.4                                   |
| 16 | Selenge                | 79.9               | 19.4        | 0.7               | 94.6  | 2.4                                       | 6.9                             | 17.6                                   |
| 17 | Tuv                    | 77.5               | 20.8        | 1.7               | 62.4  | 1.5                                       | 4.7                             | 14.6                                   |
| 18 | Uvs                    | 90.9               | 8.6         | 0.6               | 79.6  | 3.9                                       | 3.1                             | 14.9                                   |
| 19 | Khovd                  | 88.9               | 10.7        | 0.4               | 51.1  | 6.4                                       | 3.7                             | 14.8                                   |
| 20 | Khuvsgul               | 85.8               | 13.7        | 0.5               | 47.8  | 4.2                                       | 6.5                             | 12.7                                   |
| 21 | Khentii                | 89.0               | 10.2        | 0.8               | 96.0  | 1.1                                       | 7.5                             | 15.9                                   |
| 22 | <b>Aimags average</b>  | <b>84.2</b>        | <b>14.8</b> | <b>1.0</b>        | <b>79.3</b>   | <b>4.7</b>                                | <b>5.3</b>                      | <b>14.6</b>                            |
| 23 | <b>Ulaanbaatar</b>     | <b>84.1</b>        | <b>14.2</b> | <b>1.7</b>        | <b>92.3</b>   | <b>3.1</b>                                | <b>4.9</b>                      | <b>15.3</b>                            |
| 24 | <b>Country average</b> | <b>84.2</b>        | <b>14.5</b> | <b>1.3</b>        | <b>86.0</b>   | <b>3.9</b>                                | <b>5.1</b>                      | <b>15.0</b>                            |

## Antenatal Care Coverage , /2005-2015/

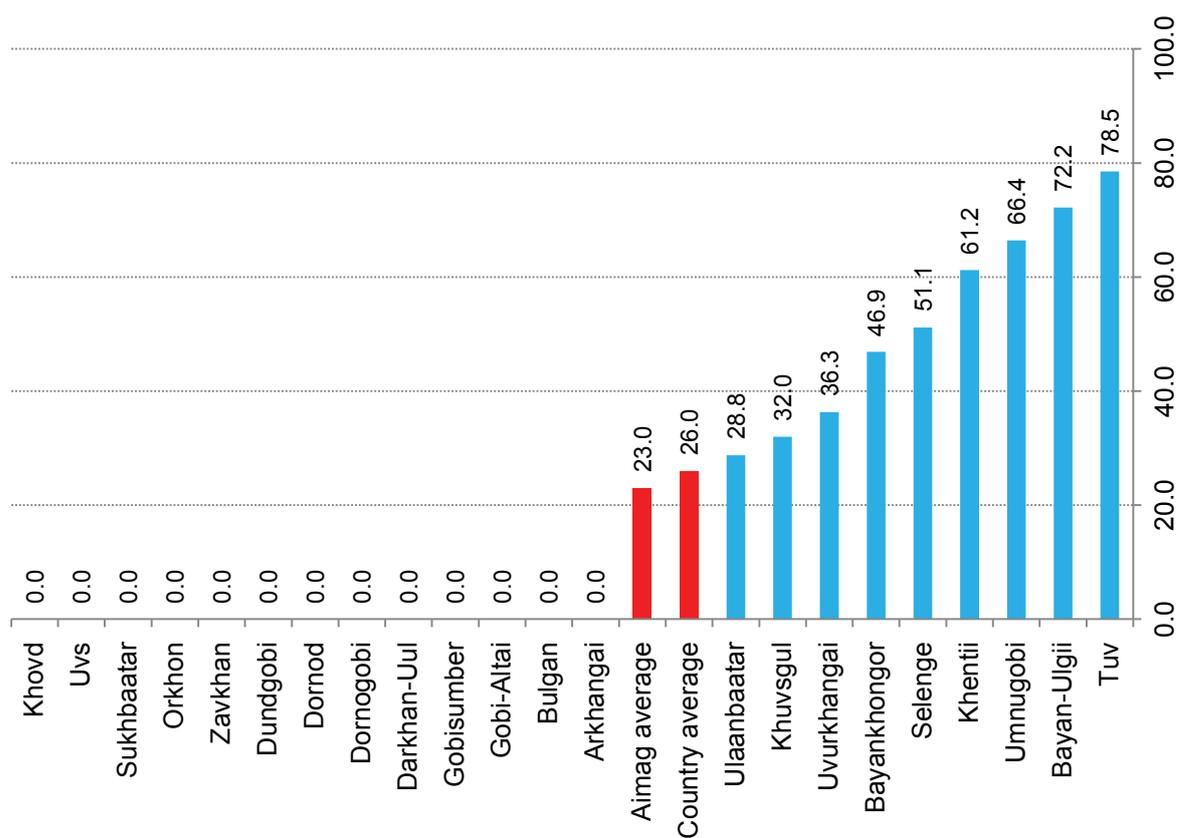


## Complications of Pregnancy, Delivery and Puerperium, 2015

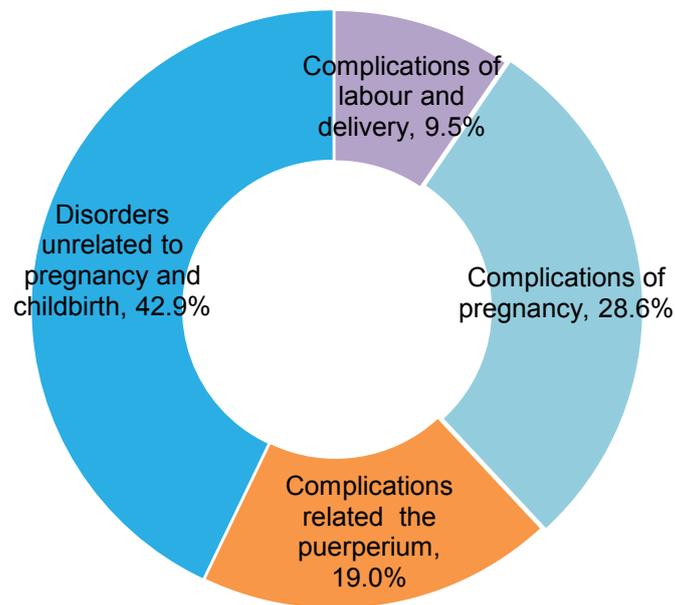


## MATERNAL MORTALITY RATE /PER 100 000 LIVE BIRTHS/, 2015

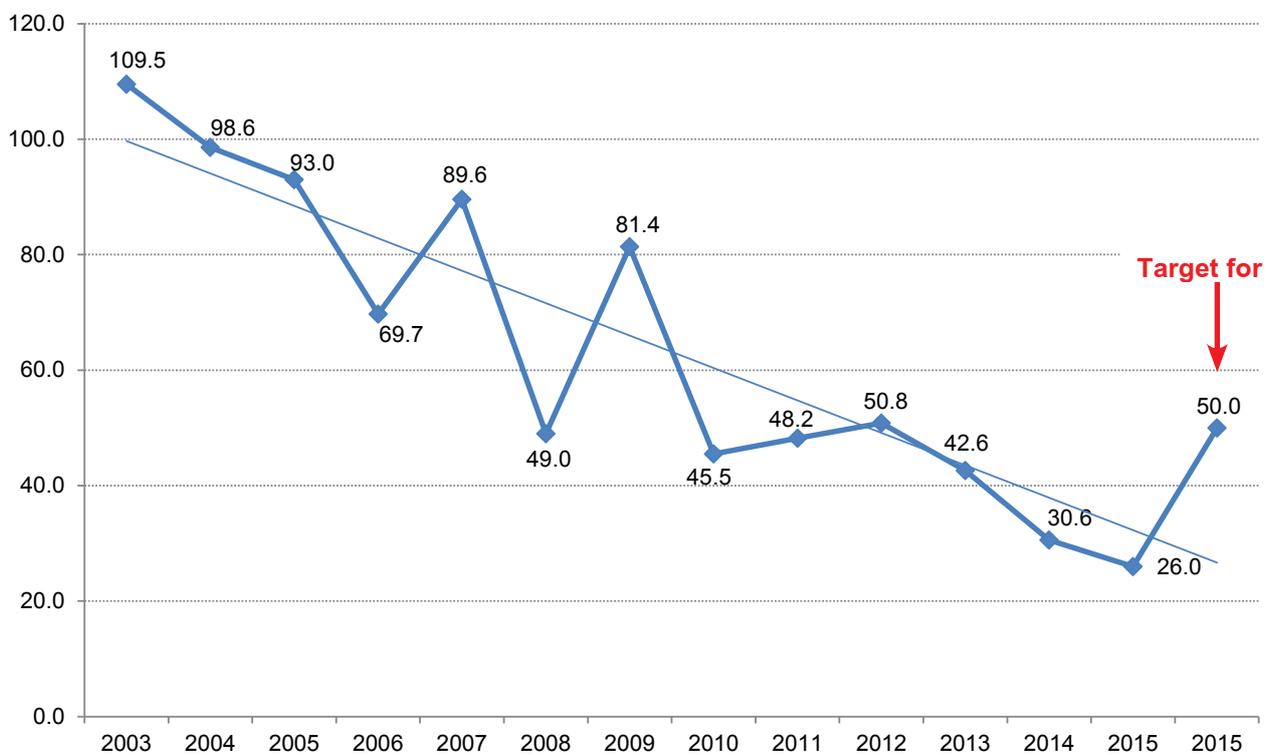
| №  | Aimags and city        | Total       | per 100 000 live births                           |                                  |               |          |
|----|------------------------|-------------|---|----------------------------------|---------------|----------|
|    |                        |             | Regional Treatment and Diagnostic centers /RTDCs/ | Aimags and city general hospital | Soum hospital |          |
| A  |                        | 1           | 2   | 3                                | 4             |          |
| 1  | Arkhangai              | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 2  | Bayan-Ulgii            | 72.2        | 0.0   | 93.9                             | 0.0           | 0.0      |
| 3  | Bayankhongor           | 46.9        | 0.0   | 0.0                              | 312.5         | 0.0      |
| 4  | Bulgan                 | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 5  | Govi-Altai             | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 6  | Gobi-Sumber            | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 7  | Darkhan-Uul            | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 8  | Dornogovi              | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 9  | Dornod                 | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 10 | Dundgovi               | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 11 | Zavkhan                | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 12 | Orkhon                 | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 13 | Uvurkhangai            | 36.3        | 50.6  | 0.0                              | 0.0           | 0.0      |
| 14 | Umnugovi               | 66.4        | 83.8  | 0.0                              | 0.0           | 0.0      |
| 15 | Sukhbaatar             | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 16 | Selenge                | 51.1        | 0.0   | 0.0                              | 106.4         | 0.0      |
| 17 | Tuv                    | 78.5        | 0.0   | 102.6                            | 0.0           | 0.0      |
| 18 | Uvs                    | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 19 | Khovd                  | 0.0         | 0.0   | 0.0                              | 0.0           | 0.0      |
| 20 | Khuvsgul               | 32.0        | 0.0   | 41.2                             | 0.0           | 0.0      |
| 21 | Khentii                | 61.2        | 0.0   | 0.0                              | 289.0         | 0.0      |
| 22 | <b>Aimag average</b>   | <b>23.0</b> | <b>20.7</b>                                       | <b>18.1</b>                      | <b>40.6</b>   | <b>0</b> |
| 23 | <b>Ulaanbaatar</b>     | <b>28.8</b> | <b>0.0</b>  | <b>0.0</b>                       | <b>0.0</b>    | <b>0</b> |
| 24 | <b>Country average</b> | <b>26.0</b> | <b>20.7</b>                                       | <b>16.9</b>                      | <b>40.6</b>   | <b>0</b> |



## MATERNAL MORTALITY BY CAUSES, 2015



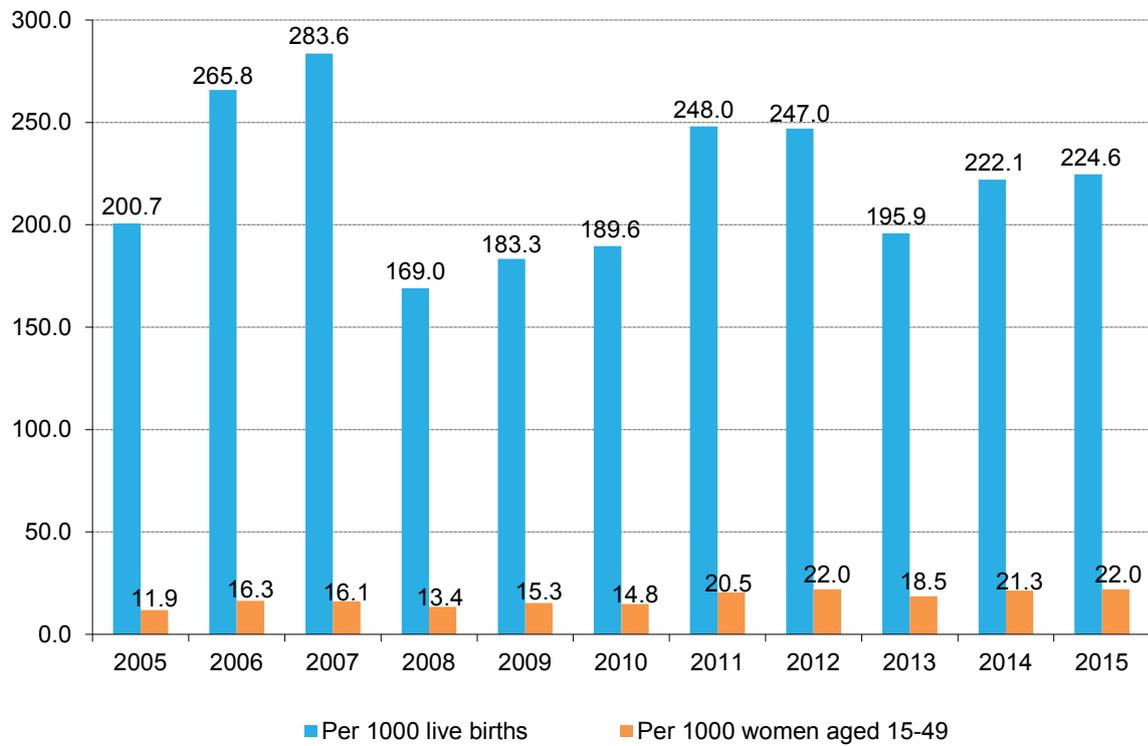
## MATERNAL MORTALITY RATE, PER 100000 LIVE BIRTHS /2003-2015/



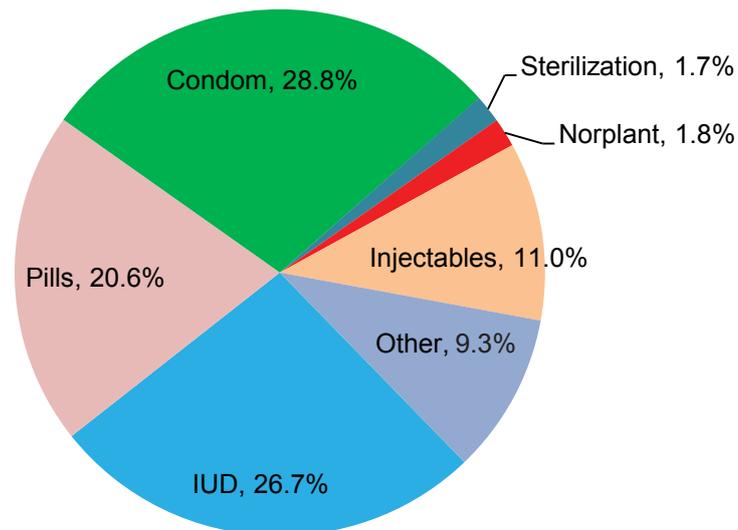
## Contraceptive Prevalence Rate /CPR/, 2015

| №         | Aimag, city            | “Percent of women in the RAG using contraceptives“ | Out of them |             |            |             |             |               |
|-----------|------------------------|--|-------------|-------------|------------|-------------|-------------|---------------|
|           |                        |  | Pills       | Injectables | Norplant   | Condom      | IUD         | Sterilization |
|           | A                      | 1  | 2           | 3           | 4          | 5           | 6           | 7             |
| 1         | Arkhangai              | 73.8   | 15.6        | 5.2         | 0.5        | 50.1        | 24.9        | 1.5           |
| 2         | Bayan-Ulgii            | 48.6   | 15.9        | 21.7        | 1.3        | 25.8        | 33.0        | 1.2           |
| 3         | Bayankhongor           | 64.8   | 12.5        | 10.5        | 1.0        | 8.5         | 57.5        | 4.3           |
| 4         | Bulgan                 | 40.8   | 21.7        | 11.8        | 2.6        | 15.4        | 39.4        | 2.1           |
| 5         | Govi-Altai             | 51.3   | 18.9        | 17.1        | 2.6        | 13.5        | 41.0        | 4.2           |
| 6         | Gobi-Sumber            | 41.0   | 40.8        | 22.6        | 5.0        | 19.8        | 6.6         | 0.7           |
| 7         | Darkhan-Uul            | 57.9   | 25.7        | 17.9        | 1.8        | 25.7        | 24.3        | 0.2           |
| 8         | Dornogovi              | 77.0   | 20.5        | 7.7         | 2.9        | 46.7        | 18.6        | 1.2           |
| 9         | Dornod                 | 63.0   | 19.8        | 16.8        | 1.5        | 11.7        | 39.4        | 4.4           |
| 10        | Dundgovi               | 54.7   | 27.3        | 14.5        | 0.8        | 27.3        | 24.3        | 0.6           |
| 11        | Zavkhan                | 58.8   | 21.0        | 17.0        | 2.6        | 25.1        | 26.6        | 1.1           |
| 12        | Orkhon                 | 57.7   | 24.4        | 13.2        | 0.8        | 37.5        | 22.9        | 1.2           |
| 13        | Uvurkhangai            | 53.5   | 23.6        | 16.7        | 1.2        | 13.0        | 38.6        | 4.8           |
| 14        | Umnugovi               | 54.9   | 31.3        | 13.7        | 3.0        | 25.2        | 21.4        | 4.7           |
| 15        | Sukhbaatar             | 60.2   | 11.1        | 15.2        | 1.3        | 5.2         | 59.5        | 7.7           |
| 16        | Selenge                | 68.4   | 24.2        | 14.2        | 2.9        | 34.1        | 20.4        | 2.1           |
| 17        | Tuv                    | 49.6   | 23.0        | 16.0        | 0.3        | 23.3        | 36.9        | 0.3           |
| 18        | Uvs                    | 37.9   | 25.2        | 23.5        | 2.3        | 16.7        | 20.3        | 2.5           |
| 19        | Khovd                  | 43.9   | 28.8        | 20.6        | 1.7        | 19.4        | 20.3        | 4.2           |
| 20        | Khuvsgul               | 63.7   | 17.7        | 17.4        | 0.7        | 14.6        | 43.3        | 2.3           |
| 21        | Khentii                | 38.7   | 29.4        | 13.0        | 0.4        | 15.8        | 33.1        | 3.5           |
| <b>22</b> | <b>Aimag average</b>   | <b>56.4</b>  | <b>21.4</b> | <b>14.9</b> | <b>1.6</b> | <b>24.0</b> | <b>32.1</b> | <b>2.6</b>    |
| <b>23</b> | <b>Ulaanbaatar</b>     | <b>51.4</b>  | <b>19.7</b> | <b>6.2</b>  | <b>2.1</b> | <b>34.8</b> | <b>20.0</b> | <b>0.6</b>    |
| <b>24</b> | <b>Country average</b> | <b>54.1</b>  | <b>20.6</b> | <b>11.0</b> | <b>1.8</b> | <b>28.8</b> | <b>26.7</b> | <b>1.7</b>    |

## Abortion /2005-2015/



## Contraceptive Methods, 2015



## ABORTION, 2015

| №         | Aimags, city           | Abortion                    |                        | Total        | Abortion by age |            |              |             | Late abortion |            |
|-----------|------------------------|-----------------------------|------------------------|--------------|-----------------|------------|--------------|-------------|---------------|------------|
|           |                        | "Per 1000 women aged 15-49" | "Per 1000 live births" |              | Under 20 age    |            | above 35 age |             | "Abs number"  | %          |
|           |                        |                             |                        |              | Abs. number     | %          | Abs. number  | %           |               |            |
| A         |                        | 1                           | 2                      | 3            | 4               | 5          | 6            | 7           | 8             | 9          |
| 1         | Arkhangai              | 9.1                         | 109.2                  | 224          | 18              | 8.0        | 98           | 43.8        | 0             | 0.0        |
| 2         | Bayan-Ulgii            | 13.8                        | 128.9                  | 357          | 8               | 2.2        | 139          | 38.9        | 5             | 1.8        |
| 3         | Bayankhongor           | 1.3                         | 14.1                   | 30           | 7               | 23.3       | 9            | 30.0        | 2             | 0.9        |
| 4         | Bulgan                 | 1.0                         | 16.1                   | 16           | 1               | 6.3        | 5            | 31.3        | 0             | 0.0        |
| 5         | Govi-Altai             | 4.3                         | 51.0                   | 66           | 13              | 19.7       | 24           | 36.4        | 0             | 0.0        |
| 6         | Gobi-Sumber            | 7.5                         | 74.0                   | 33           | 1               | 3.0        | 11           | 33.3        | 0             | 0.0        |
| 7         | Darkhan-Uul            | 5.1                         | 51.4                   | 136          | 12              | 8.8        | 38           | 27.9        | 0             | 0.0        |
| 8         | Dornogovi              | 26.5                        | 291.2                  | 451          | 37              | 8.2        | 110          | 24.4        | 0             | 0.0        |
| 9         | Dornod                 | 18.9                        | 190.4                  | 375          | 32              | 8.5        | 109          | 29.1        | 25            | 12.7       |
| 10        | Dundgovi               | 9.1                         | 104.9                  | 105          | 9               | 8.6        | 29           | 27.6        | 0             | 0.0        |
| 11        | Zavkhan                | 3.5                         | 39.9                   | 65           | 2               | 3.1        | 28           | 43.1        | 6             | 3.7        |
| 12        | Orkhon                 | 48.3                        | 497.0                  | 1340         | 57              | 4.3        | 324          | 24.2        | 15            | 5.6        |
| 13        | Uvurkhangai            | 13.3                        | 146.3                  | 403          | 29              | 7.2        | 131          | 32.5        | 7             | 2.5        |
| 14        | Umnugovi               | 30.8                        | 340.9                  | 513          | 35              | 6.8        | 123          | 24.0        | 14            | 9.3        |
| 15        | Sukhbaatar             | 5.4                         | 60.9                   | 85           | 8               | 9.4        | 22           | 25.9        | 1             | 0.7        |
| 16        | Selenge                | 1.6                         | 23.0                   | 45           | 4               | 8.9        | 9            | 20.0        | 14            | 7.2        |
| 17        | Tuv                    | 2.3                         | 40.8                   | 52           | 7               | 13.5       | 13           | 25.0        | 8             | 6.3        |
| 18        | Uvs                    | 10.3                        | 108.0                  | 217          | 15              | 6.9        | 73           | 33.6        | 26            | 12.9       |
| 19        | Khovd                  | 5.6                         | 54.0                   | 125          | 2               | 1.6        | 55           | 44.0        | 0             | 0.0        |
| 20        | Khuvsgul               | 1.2                         | 13.7                   | 43           | 8               | 18.6       | 13           | 30.2        | 0             | 0.0        |
| 21        | Khentii                | 17.2                        | 197.7                  | 323          | 30              | 9.3        | 95           | 29.4        | 23            | 14.1       |
| <b>22</b> | <b>Aimag average</b>   | <b>11.4</b>                 | <b>127.8</b>           | <b>5004</b>  | <b>335</b>      | <b>6.7</b> | <b>1458</b>  | <b>29.1</b> | <b>146</b>    | <b>3.7</b> |
| 23        | Ulaanbaatar            | 34.0                        | 315.4                  | 13164        | 600             | 4.6        | 3074         | 23.4        | 364           | 8.7        |
| <b>24</b> | <b>Country average</b> | <b>22.0</b>                 | <b>224.6</b>           | <b>18168</b> | <b>935</b>      | <b>5.1</b> | <b>4532</b>  | <b>24.9</b> | <b>510</b>    | <b>6.3</b> |

## MATERNAL CARE DURING DELIVERY OR CHILDBIRTH (BY AIMAG), 2015

| №  | Aimags and city        | Delivery by percent      |                  |                        |               |               |         | Deliveries by nontrained personnel | Percent of deliveries under 20 age | Percent of deliveries above 35 age | Percent of newborn infants weighing at below 2500 g. at birth |
|----|------------------------|--------------------------|------------------|------------------------|---------------|---------------|---------|------------------------------------|------------------------------------|------------------------------------|---|
|    |                        | Aimags and city hospital | Private hospital | Rural general hospital | Soum hospital | Feldsher post | At home |                                    |                                    |                                    |   |
| A  | Б                      | 1                        | 2                | 3                      | 4             | 5             | 6       | 7                                  | 8                                  | 9                                  | 10  |
| 1  | Arkhangai              | 74.4                     | 0.0              | 0.0                    | 25.3          | 0.0           | 0.3     | 0.1                                | 4.9                                | 12.4                               | 4.5   |
| 2  | Bayan-Ulgii            | 76.5                     | 0.0              | 0.0                    | 23.3          | 0.0           | 0.2     | 0.1                                | 1.4                                | 13.3                               | 2.6   |
| 3  | Bayankhongor           | 84.6                     | 0.0              | 0.0                    | 15.0          | 0.0           | 0.4     | 0.0                                | 8.1                                | 11.4                               | 5.4   |
| 4  | Bulgan                 | 77.2                     | 0.0              | 0.0                    | 22.2          | 0.0           | 0.6     | 0.0                                | 7.0                                | 14.1                               | 5.0   |
| 5  | Govi-Altai             | 87.6                     | 0.0              | 0.0                    | 12.0          | 0.0           | 0.4     | 0.2                                | 4.8                                | 13.6                               | 5.0   |
| 6  | Gobi-Sumber            | 100.0                    | 0.0              | 0.0                    | 0.0           | 0.0           | 0.0     | 0.0                                | 7.9                                | 13.6                               | 3.8   |
| 7  | Darkhan-Uul            | 97.9                     | 0.0              | 0.0                    | 1.5           | 0.0           | 0.6     | 0.1                                | 6.0                                | 16.9                               | 3.3   |
| 8  | Dornogovi              | 80.8                     | 0.0              | 17.6                   | 1.2           | 0.0           | 0.4     | 0.2                                | 8.7                                | 13.2                               | 4.0   |
| 9  | Dornod                 | 0.0                      | 0.0              | 0.0                    | 3.9           | 0.0           | 0.2     | 0.1                                | 7.3                                | 12.8                               | 2.9   |
| 10 | Dundgovi               | 82.4                     | 0.0              | 0.0                    | 17.1          | 0.0           | 0.5     | 0.5                                | 7.1                                | 12.4                               | 3.8   |
| 11 | Zavkhan                | 57.7                     | 0.0              | 24.9                   | 17.2          | 0.0           | 0.1     | 0.0                                | 4.9                                | 15.4                               | 2.8   |
| 12 | Orkhon                 | 0.0                      | 0.0              | 0.0                    | 0.1           | 0.0           | 0.2     | 0.2                                | 5.8                                | 15.0                               | 3.8   |
| 13 | Uvurkhangai            | 0.0                      | 0.5              | 10.8                   | 17.1          | 0.1           | 0.4     | 0.1                                | 7.4                                | 12.7                               | 3.9   |
| 14 | Umnugovi               | 0.0                      | 0.0              | 0.0                    | 20.7          | 0.0           | 0.2     | 0.1                                | 6.6                                | 11.1                               | 4.8   |
| 15 | Sukhbaatar             | 94.1                     | 0.0              | 0.0                    | 5.4           | 0.0           | 0.5     | 0.1                                | 8.0                                | 12.8                               | 3.2   |
| 16 | Selenge                | 51.6                     | 0.0              | 35.2                   | 13.0          | 0.0           | 0.2     | 0.2                                | 7.2                                | 14.2                               | 2.6   |
| 17 | Tuv                    | 75.5                     | 0.0              | 0.0                    | 23.4          | 0.0           | 1.1     | 0.4                                | 7.1                                | 14.8                               | 4.0   |
| 18 | Uvs                    | 79.7                     | 0.0              | 0.0                    | 19.5          | 0.0           | 0.8     | 0.4                                | 3.3                                | 13.3                               | 3.5   |
| 19 | Khovd                  | 0.0                      | 0.0              | 8.0                    | 10.7          | 0.0           | 0.2     | 0.2                                | 4.4                                | 13.2                               | 5.1   |
| 20 | Khovsgul               | 77.4                     | 0.0              | 0.0                    | 22.3          | 0.0           | 0.3     | 0.2                                | 6.9                                | 13.0                               | 3.9   |
| 21 | Khentii                | 78.3                     | 0.0              | 6.5                    | 14.9          | 0.1           | 0.2     | 0.0                                | 8.1                                | 15.6                               | 3.1   |
| 22 | <b>Aimags average</b>  | 80.7                     | 0.0              | 5.0                    | 13.9          | 0.0           | 0.4     | 0.2                                | 6.1                                | 13.6                               | 3.8   |
| 23 | Ulaanbaatar            | 95.7                     | 3.8              | 0.0                    | 0.0           | 0.0           | 0.5     | 0.2                                | 4.9                                | 16.1                               | 4.9   |
| 24 | <b>Country average</b> | 88.4                     | 2.0              | 2.4                    | 6.7           | 0.0           | 0.4     | 0.2                                | 5.5                                | 14.9                               | 4.4   |

## IMMUNIZATION COVERAGE FOR INFANTS, 2015

| №         | Aimag and city         | Covered percentage |             |             |             |
|-----------|------------------------|--------------------|-------------|-------------|-------------|
|           |                        | Penta vaccine      | POL 3       | Hepatitis A | DT          |
| 1         | Arkhangai              | 99.7               | 99.2        | 99.2        | 97.4        |
| 2         | Bayan-Ulgii            | 99.2               | 99.0        | 98.7        | 99.0        |
| 3         | Bayankhongor           | 100.0              | 100.0       | 100.0       | 77.4        |
| 4         | Bulgan                 | 100.0              | 94.0        | 94.7        | 77.3        |
| 5         | Govi-Altai             | 97.9               | 90.9        | 90.9        | 99.4        |
| 6         | Gobi-Sumber            | 96.5               | 96.4        | 96.4        | 99.3        |
| 7         | Darkhan-Uul            | 98.8               | 99.9        | 99.5        | 97.3        |
| 8         | Dornogovi              | 99.3               | 99.1        | 99.1        | 97.9        |
| 9         | Dornod                 | 100.0              | 100.0       | 100.0       | 99.7        |
| 10        | Dundgovi               | 97.9               | 91.5        | 91.5        | 99.3        |
| 11        | Zavkhan                | 97.8               | 89.0        | 89.3        | 99.7        |
| 12        | Orkhon                 | 98.9               | 96.5        | 96.1        | 98.4        |
| 13        | Uvurkhangai            | 99.1               | 97.8        | 97.8        | 95.6        |
| 14        | Umnugovi               | 99.8               | 99.5        | 99.5        | 99.7        |
| 15        | Sukhbaatar             | 100.0              | 100.0       | 98.7        | 93.7        |
| 16        | Selenge                | 100.0              | 94.6        | 99.3        | 96.8        |
| 17        | Tuv                    | 99.8               | 99.9        | 99.9        | 95.4        |
| 18        | Uvs                    | 99.7               | 97.7        | 97.7        | 93.9        |
| 19        | Khovd                  | 99.9               | 99.2        | 99.2        | 99.0        |
| 20        | Khuvsgul               | 98.3               | 98.0        | 98.1        | 97.5        |
| 21        | Khentii                | 99.5               | 97.8        | 98.8        | 97.8        |
| <b>22</b> | <b>Aimag average</b>   | <b>99.3</b>        | <b>97.5</b> | <b>97.7</b> | <b>95.5</b> |
| 23        | Ulaanbaatar            | 98.4               | 97.5        | 97.5        | 91.5        |
| <b>24</b> | <b>Country average</b> | <b>98.9</b>        | <b>97.5</b> | <b>97.6</b> | <b>94.1</b> |

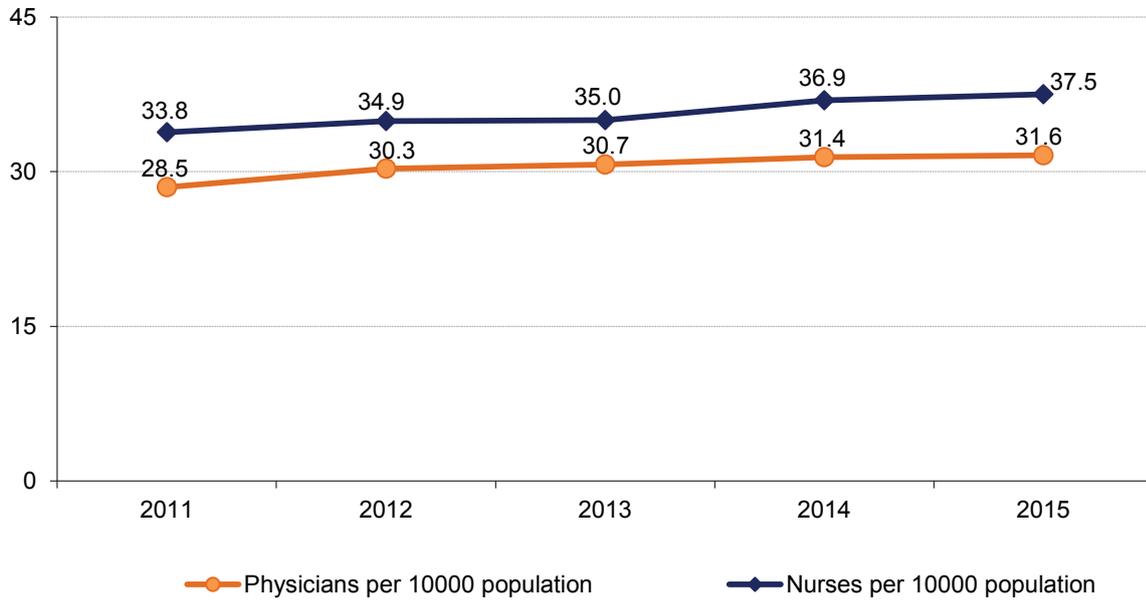
## HEALTH HUMAN RESOURCE, 2015

| Health care providers  | Health human resource |                 |                           |               |             |                    |                  |                 |                                   |                   |              |        |          | All worker |  |         |                |                 |              |            |                     |                          |                                   |                            |                   |               |       |        |
|--|-----------------------|-----------------|---------------------------|---------------|-------------|--------------------|------------------|-----------------|-----------------------------------|-------------------|--------------|--------|----------|------------|--|---------|----------------|-----------------|--------------|------------|---------------------|--------------------------|-----------------------------------|----------------------------|-------------------|---------------|-------|--------|
|  | Ne                    | Health managers | Public health specialists | Statisticians | Pharmacists | Bio-medical expert | Total physicians | "Human doctors" | Traditional medical practitioners | Home mouth doctor | Total nurses | Diplom | Bakalavr | attendant  | Medical professional and other employees | Midwife | Bags feldshers | Other feldshers | Microscopist | Technician | Midlevel pharmacist | Other midlevel personnel | Information technology specialist | Medical Equipment Engineer | "Other top deals" | Other workers | Total | Female |
| A  | 5                     | 1               | 2                         | 3             | 4           | 5                  | 6                | 7               | 8                                 | 9                 | 10           | 11     | 12       | 13         | 14                                       | 15      | 16             | 17              | 18           | 19         | 20                  | 21                       | 22                                | 23                         | 24                | 25            | 26    | 27     |
| Total  | 51                    | 120             | 1                         | 18            | 0           | 1887               | 1733             | 119             | 35                                | 2740              | 1935         | 744    | 61       | 2525       | 363                                      | 1009    | 601            | 233             | 7            | 224        | 88                  | 0                        | 1                                 | 227                        | 3274              | 10843         | 8537  |        |
| Feldsher's posts with beds   | 2                     | 0               | 0                         | 0             | 0           | 0                  | 1                | 1               | 0                                 | 0                 | 11           | 10     | 1        | 0          | 8  | 0       | 6              | 1               | 0            | 0          | 0                   | 0                        | 0                                 | 0                          | 0                 | 15            | 35    | 28     |
| Physician's post with beds   | 3                     | 0               | 0                         | 0             | 0           | 0                  | 8                | 7               | 1                                 | 0                 | 19           | 17     | 2        | 0          | 13                                       | 2       | 7              | 0               | 2            | 0          | 0                   | 0                        | 0                                 | 0                          | 1                 | 35            | 76    | 57     |
| Family hospitals   | 4                     | 50              | 93                        | 0             | 0           | 0                  | 951              | 896             | 54                                | 1                 | 897          | 645    | 252      | 0          | 77                                       | 9       | 15             | 50              | 0            | 0          | 3                   | 0                        | 0                                 | 0                          | 87                | 480           | 2635  | 2296   |
| Village hospitals  | 5                     | 1               | 0                         | 0             | 2           | 0                  | 42               | 37              | 2                                 | 3                 | 91           | 66     | 25       | 0          | 73                                       | 15      | 7              | 28              | 12           | 0          | 9                   | 2                        | 0                                 | 0                          | 18                | 135           | 362   | 274    |
| Soum health center   | 6                     | 0               | 23                        | 1             | 13          | 0                  | 661              | 600             | 50                                | 11                | 1446         | 1006   | 389      | 51         | 1986                                     | 275     | 834            | 438             | 184          | 3          | 184                 | 68                       | 0                                 | 0                          | 81                | 2165          | 6375  | 4852   |
| Intersoum hospitals  | 7                     | 0               | 4                         | 0             | 3           | 0                  | 224              | 192             | 12                                | 20                | 276          | 191    | 75       | 10         | 368                                      | 62      | 145            | 77              | 37           | 4          | 28                  | 15                       | 0                                 | 1                          | 40                | 444           | 1360  | 1030   |
| Total  | 8                     | 112             | 122                       | 27            | 54          | 6                  | 1956             | 1794            | 63                                | 99                | 2788         | 1828   | 928      | 32         | 1034                                     | 224     | 13             | 287             | 292          | 78         | 64                  | 76                       | 45                                | 33                         | 278               | 2104          | 8532  | 7349   |
| District hospitals   | 9                     | 66              | 90                        | 11            | 24          | 6                  | 795              | 722             | 29                                | 44                | 891          | 539    | 336      | 16         | 301                                      | 44      | 0              | 78              | 96           | 25         | 18                  | 40                       | 22                                | 12                         | 126               | 677           | 3010  | 2650   |
| Rural general hospitals  | 10                    | 8               | 6                         | 3             | 5           | 0                  | 131              | 118             | 8                                 | 5                 | 172          | 115    | 54       | 3          | 107                                      | 29      | 13             | 34              | 17           | 6          | 6                   | 2                        | 0                                 | 1                          | 18                | 174           | 622   | 524    |
| Alimad general hospitals   | 11                    | 38              | 26                        | 13            | 25          | 0                  | 1030             | 954             | 26                                | 50                | 1725         | 1174   | 538      | 13         | 626                                      | 151     | 0              | 175             | 179          | 47         | 40                  | 34                       | 23                                | 20                         | 134               | 1253          | 4900  | 4175   |
| Total  | 12                    | 63              | 99                        | 27            | 90          | 8                  | 1670             | 1587            | 44                                | 39                | 2606         | 1251   | 1294     | 61         | 708                                      | 141     | 0              | 85              | 252          | 107        | 46                  | 77                       | 45                                | 50                         | 300               | 2069          | 7708  | 6478   |
| Regional Treatment and Diagnostic centers  | 13                    | 14              | 8                         | 6             | 13          | 0                  | 449              | 417             | 11                                | 21                | 694          | 442    | 239      | 13         | 249                                      | 79      | 0              | 40              | 74           | 27         | 16                  | 13                       | 9                                 | 8                          | 37                | 445           | 1926  | 1670   |
| Specialized Centers and Hospitals  | 14                    | 49              | 91                        | 21            | 77          | 8                  | 1221             | 1170            | 33                                | 18                | 1912         | 809    | 1055     | 48         | 459                                      | 62      | 0              | 45              | 178          | 80         | 30                  | 64                       | 36                                | 42                         | 263               | 1624          | 5782  | 4808   |
| Maternity hospitals  | 15                    | 11              | 14                        | 4             | 10          | 0                  | 185              | 183             | 2                                 | 0                 | 182          | 95     | 69       | 18         | 199                                      | 141     | 0              | 21              | 16           | 0          | 2                   | 19                       | 4                                 | 3                          | 34                | 226           | 868   | 768    |
| Rail sector hospitals  | 16                    | 0               | 0                         | 0             | 0           | 0                  | 4                | 4               | 0                                 | 0                 | 1            | 1      | 0        | 6          | 0  | 0       | 0              | 6               | 0            | 0          | 0                   | 0                        | 0                                 | 0                          | 0                 | 2             | 13    | 11     |
| Private hospitals with beds  | 17                    | 106             | 23                        | 14            | 44          | 8                  | 1080             | 867             | 169                               | 44                | 1195         | 675    | 503      | 17         | 349                                      | 29      | 0              | 85              | 97           | 63         | 30                  | 45                       | 24                                | 22                         | 398               | 1174          | 4423  | 3582   |
| Private hospitals for outpatients  | 18                    | 135             | 22                        | 1             | 16          | 24                 | 1618             | 748             | 127                               | 743               | 746          | 418    | 281      | 47         | 439                                      | 3       | 0              | 44              | 92           | 217        | 5                   | 78                       | 10                                | 26                         | 220               | 518           | 3774  | 3146   |
| Ministry of health   | 19                    | 11              | 73                        | 0             | 0           | 0                  | 0                | 0               | 0                                 | 0                 | 0            | 0      | 0        | 0          | 0  | 0       | 0              | 0               | 0            | 0          | 0                   | 0                        | 0                                 | 0                          | 11                | 0             | 97    | 71     |
| Research institutions  | 20                    | 8               | 38                        | 0             | 0           | 30                 | 0                | 0               | 0                                 | 0                 | 0            | 0      | 0        | 0          | 0  | 0       | 0              | 0               | 0            | 0          | 0                   | 0                        | 0                                 | 0                          | 9                 | 11            | 97    | 68     |
| Health Department  | 21                    | 46              | 285                       | 20            | 14          | 2                  | 22               | 17              | 1                                 | 4                 | 28           | 14     | 14       | 0          | 66                                       | 0       | 0              | 49              | 2            | 0          | 4                   | 11                       | 22                                | 2                          | 132               | 165           | 784   | 570    |
| Centre for Health Development  | 22                    | 6               | 35                        | 0             | 0           | 0                  | 0                | 0               | 0                                 | 0                 | 0            | 0      | 0        | 0          | 0  | 0       | 0              | 0               | 0            | 0          | 0                   | 0                        | 3                                 | 4                          | 8                 | 7             | 63    | 48     |
| National Center for Zoonotic diseases centers  | 23                    | 14              | 3                         | 1             | 0           | 9                  | 46               | 46              | 0                                 | 0                 | 6            | 4      | 2        | 0          | 84                                       | 0       | 1              | 20              | 54           | 0          | 0                   | 9                        | 2                                 | 1                          | 68                | 122           | 355   | 205    |
| National Center for Blood Transfusion Research, provincial blood centers in the district                             | 24                    | 2               | 1                         | 1             | 0           | 0                  | 8                | 8               | 0                                 | 0                 | 19           | 14     | 5        | 0          | 8  | 0       | 0              | 1               | 6            | 0          | 0                   | 1                        | 1                                 | 0                          | 10                | 11            | 60    | 47     |
| Emergency center and the districts in the industry   | 25                    | 4               | 1                         | 1             | 1           | 0                  | 137              | 137             | 0                                 | 0                 | 29           | 22     | 7        | 0          | 7  | 0       | 0              | 0               | 0            | 0          | 7                   | 0                        | 1                                 | 1                          | 30                | 152           | 363   | 147    |
| Resort   | 26                    | 59              | 3                         | 1             | 2           | 1                  | 304              | 177             | 117                               | 10                | 314          | 216    | 89       | 9          | 72                                       | 1       | 0              | 48              | 5            | 4          | 1                   | 13                       | 5                                 | 3                          | 139               | 698           | 1600  | 1226   |
| Medical Supply Organization  | 27                    | 38              | 0                         | 0             | 148         | 0                  | 30               | 28              | 2                                 | 0                 | 0            | 0      | 0        | 0          | 134                                      | 0       | 0              | 0               | 0            | 134        | 0                   | 2                        | 2                                 | 2                          | 42                | 188           | 584   | 440    |
| Drug factory   | 28                    | 1               | 0                         | 0             | 17          | 1                  | 0                | 0               | 0                                 | 0                 | 0            | 0      | 0        | 0          | 7  | 0       | 0              | 0               | 0            | 0          | 7                   | 0                        | 1                                 | 2                          | 10                | 33            | 72    | 47     |
| Private pharmacies   | 29                    | 63              | 0                         | 0             | 1027        | 0                  | 2                | 1               | 0                                 | 1                 | 1            | 0      | 1        | 0          | 1283                                     | 0       | 0              | 1               | 0            | 0          | 1275                | 7                        | 2                                 | 0                          | 88                | 826           | 3292  | 3055   |
| Other  | 30                    | 39              | 14                        | 4             | 4           | 6                  | 115              | 60              | 32                                | 23                | 140          | 94     | 44       | 2          | 62                                       | 0       | 0              | 17              | 16           | 12         | 7                   | 10                       | 5                                 | 2                          | 66                | 231           | 684   | 530    |
| All health-care workers  | 31                    | 769             | 853                       | 102           | 1445        | 95                 | 9064             | 7390            | 676                               | 998               | 10795        | 6567   | 3981     | 247        | 6983                                     | 902     | 1023           | 1265            | 1085         | 488        | 1806                | 434                      | 175                               | 152                        | 2070              | 11811         | 44212 | 36325  |
| State Medical University, College  | 32                    | 29              | 18                        | 2             | 36          | 12                 | 85               | 72              | 8                                 | 5                 | 40           | 0      | 40       | 0          | 10                                       | 2       | 0              | 1               | 4            | 2          | 0                   | 8                        | 8                                 | 8                          | 583               | 145           | 974   | 686    |
| Private medical schools, colleges  | 33                    | 51              | 49                        | 0             | 0           | 0                  | 0                | 0               | 0                                 | 0                 | 0            | 0      | 0        | 0          | 8  | 0       | 0              | 0               | 4            | 4          | 0                   | 4                        | 4                                 | 290                        | 91                | 497           | 322   |        |
| Other medical / border guards and the prison hospital, defense, law enforcement officials Hospital, Railway Hospital | 34                    | 22              | 12                        | 6             | 19          | 8                  | 351              | 321             | 15                                | 15                | 488          | 285    | 203      | 0          | 136                                      | 0       | 0              | 61              | 33           | 14         | 11                  | 17                       | 3                                 | 6                          | 36                | 274           | 1355  | 1066   |
| Other (schools, parks, mines, factories, offices, etc.)  | 35                    | 0               | 0                         | 0             | 4           | 0                  | 63               | 62              | 1                                 | 0                 | 34           | 28     | 6        | 0          | 285                                      | 12      | 0              | 261             | 4            | 0          | 0                   | 8                        | 0                                 | 0                          | 4                 | 1             | 391   | 338    |
| All other sectors of health care workers   | 36                    | 102             | 79                        | 8             | 59          | 20                 | 499              | 455             | 24                                | 20                | 562          | 313    | 249      | 0          | 439                                      | 14      | 0              | 323             | 42           | 22         | 13                  | 25                       | 15                                | 18                         | 913               | 511           | 3217  | 2412   |
| Total  | 37                    | 871             | 932                       | 110           | 1504        | 115                | 9563             | 7845            | 700                               | 1018              | 11357        | 6880   | 4230     | 247        | 7422                                     | 916     | 1023           | 1568            | 1107         | 510        | 1819                | 459                      | 190                               | 170                        | 2983              | 12322         | 47429 | 38737  |

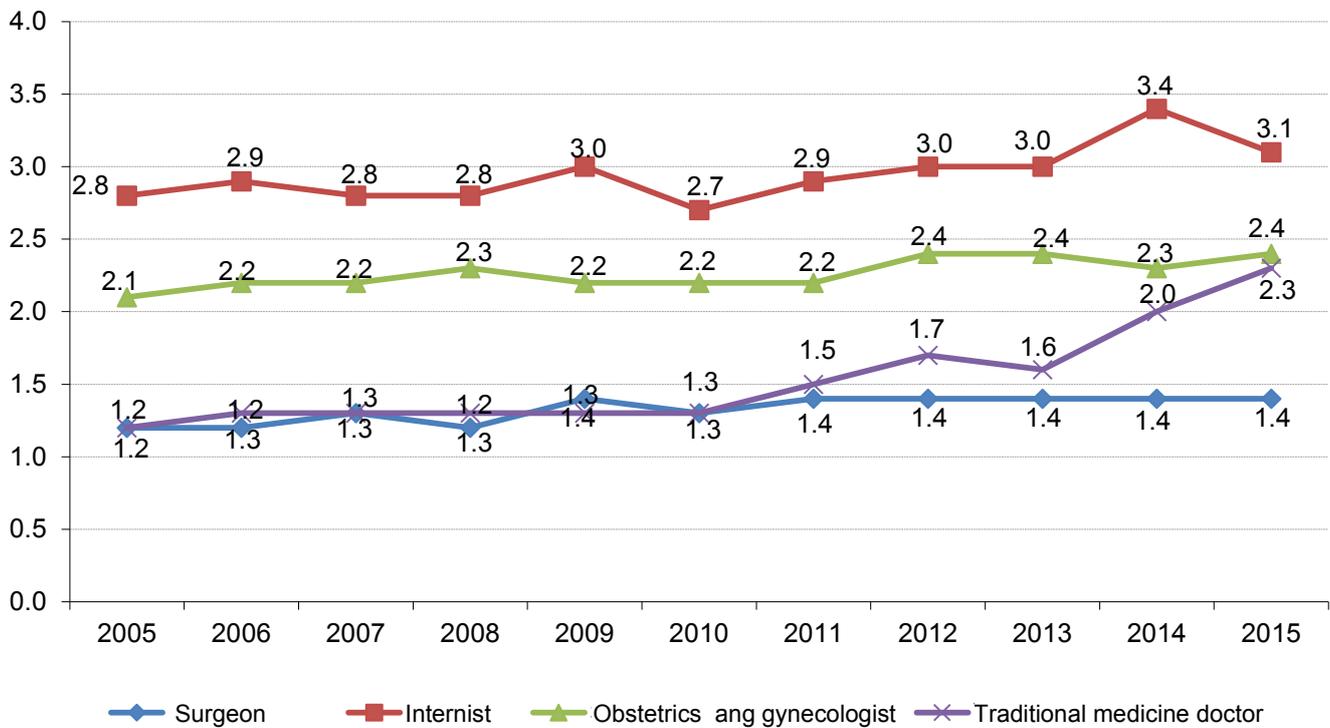
## PHYSICIANS, BY SPECIALTIES, PER 10 000 POPULATION, 2015

| №  | Aimags and city        | Out          |                       |                       |            |            |              |            |                |               |                   |             |                             |            |                              |                 |                       |                 |               |                | Total      |              |              |                |              |            |             |                  |                   |            |                             |             |      |
|----|------------------------|--------------|-----------------------|-----------------------|------------|------------|--------------|------------|----------------|---------------|-------------------|-------------|-----------------------------|------------|------------------------------|-----------------|-----------------------|-----------------|---------------|----------------|------------|--------------|--------------|----------------|--------------|------------|-------------|------------------|-------------------|------------|-----------------------------|-------------|------|
|    |                        | Human doctor | General Practitioners | Basic and specialized | Internist  | Pediatric  | Out: Infants | Surgeon    | Traumatologist | Resuscitation | Anaesthesiologist | Neurologist | Obstetrics and gynecologist | Oncologist | Psychiatrist and neurologist | Ophthalmologist | Otorhinolaryngologist | Plastic surgeon | Dermatologist | Infectiologist |            | Tuberculosis | Venerologist | Rehabilitation | Facilitation | Elderly    | Pathogenist | X-ray diagnostic | Doctor laboratory | Other      | Traditional medicine doctor | Mouth       |      |
| A  | B                      | 1            | 2                     | 3                     | 4          | 5          | 6            | 7          | 8              | 9             | 10                | 11          | 12                          | 13         | 14                           | 15              | 16                    | 17              | 18            | 19             | 20         | 21           | 22           | 23             | 24           | 25         | 26          | 27               | 28                | 29         | 30                          | 31          |      |
| 1  | Arkhangai              | 16.0         | 5.7                   | 10.3                  | 1.6        | 2.2        | 0.1          | 0.9        | 0.1            | 0.1           | 0.3               | 0.4         | 1.8                         | 0.1        | 0.1                          | 0.2             | 0.2                   | 0.1             | 0.0           | 0.0            | 0.2        | 0.1          | 0.1          | 0.0            | 0.1          | 0.3        | 0.4         | 0.3              | 0.2               | 1.2        | 0.9                         | 18.0        |      |
| 2  | Bayan-Ulgii            | 14.9         | 5.6                   | 9.3                   | 1.3        | 1.2        | 0.1          | 0.9        | 0.1            | 0.0           | 0.5               | 0.3         | 1.6                         | 0.1        | 0.2                          | 0.2             | 0.3                   | 0.1             | 0.0           | 0.0            | 0.5        | 0.2          | 0.1          | 0.0            | 0.1          | 0.1        | 0.3         | 0.3              | 1.0               | 0.7        | 1.3                         | 17.0        |      |
| 3  | Bayankhongor           | 15.8         | 6.2                   | 9.6                   | 1.3        | 2.2        | 0.2          | 1.0        | 0.4            | 0.1           | 0.7               | 0.4         | 1.3                         | 0.1        | 0.1                          | 0.1             | 0.0                   | 0.0             | 0.0           | 0.0            | 0.4        | 0.2          | 0.1          | 0.1            | 0.0          | 0.1        | 0.2         | 0.2              | 0.7               | 1.9        | 1.3                         | 19.0        |      |
| 4  | Bulgan                 | 15.1         | 7.3                   | 7.8                   | 1.0        | 1.3        | 0.2          | 0.7        | 0.0            | 0.0           | 0.5               | 0.7         | 1.3                         | 0.2        | 0.2                          | 0.2             | 0.2                   | 0.2             | 0.2           | 0.0            | 0.7        | 0.2          | 0.2          | 0.0            | 0.2          | 0.2        | 0.3         | 0.2              | 0.0               | 2.2        | 1.2                         | 18.4        |      |
| 5  | Govi-Altai             | 27.1         | 12.6                  | 14.5                  | 1.4        | 2.5        | 0.2          | 1.8        | 0.4            | 0.2           | 0.7               | 0.9         | 1.2                         | 0.2        | 0.2                          | 0.5             | 0.4                   | 0.2             | 0.0           | 0.0            | 0.9        | 0.2          | 0.4          | 0.2            | 0.2          | 0.2        | 0.7         | 0.7              | 1.1               | 1.2        | 2.1                         | 30.5        |      |
| 6  | Gobi-Sumber            | 31.3         | 12.3                  | 19.0                  | 1.8        | 3.1        | 0.6          | 1.8        | 0.0            | 0.0           | 0.6               | 0.6         | 1.8                         | 0.6        | 0.0                          | 0.6             | 1.2                   | 0.6             | 0.0           | 0.6            | 1.2        | 0.6          | 0.0          | 0.6            | 0.0          | 0.6        | 1.0         | 1.8              | 1.2               | 1.2        | 1.8                         | 34.4        |      |
| 7  | Darkhan-Uul            | 21.1         | 7.5                   | 13.6                  | 2.2        | 1.5        | 0.2          | 1.0        | 0.5            | 0.0           | 0.4               | 0.5         | 1.2                         | 0.2        | 0.6                          | 0.5             | 0.3                   | 0.3             | 0.0           | 0.0            | 1.0        | 0.5          | 0.1          | 0.3            | 0.1          | 0.2        | 0.1         | 0.6              | 1.0               | 1.2        | 1.5                         | 3.6         | 26.2 |
| 8  | Dornogovi              | 29.4         | 9.5                   | 20.0                  | 2.8        | 3.6        | 0.5          | 0.9        | 0.6            | 0.0           | 0.8               | 1.2         | 3.1                         | 0.6        | 0.2                          | 0.3             | 0.8                   | 0.6             | 0.0           | 0.0            | 0.9        | 0.2          | 0.3          | 0.3            | 0.0          | 0.0        | 0.3         | 0.9              | 0.8               | 1.2        | 1.5                         | 1.5         | 32.5 |
| 9  | Dornod                 | 20.7         | 5.7                   | 15.0                  | 2.5        | 2.5        | 0.1          | 1.1        | 0.3            | 0.0           | 0.8               | 0.5         | 1.5                         | 0.4        | 0.4                          | 0.5             | 0.4                   | 0.3             | 0.0           | 0.0            | 0.9        | 0.5          | 0.4          | 0.4            | 0.0          | 0.0        | 0.3         | 0.9              | 0.5               | 0.9        | 0.3                         | 1.3         | 22.3 |
| 10 | Dundgovi               | 25.5         | 13.1                  | 12.4                  | 1.8        | 2.5        | 0.2          | 0.9        | 0.2            | 0.0           | 0.7               | 0.5         | 1.8                         | 0.2        | 0.2                          | 0.2             | 0.2                   | 0.2             | 0.2           | 0.0            | 0.9        | 0.2          | 0.2          | 0.5            | 0.0          | 0.2        | 0.2         | 0.7              | 0.5               | 0.0        | 0.7                         | 1.6         | 27.7 |
| 11 | Zavkhan                | 20.5         | 8.4                   | 12.0                  | 1.1        | 2.9        | 0.4          | 0.6        | 0.1            | 0.3           | 0.6               | 0.9         | 1.7                         | 0.3        | 0.1                          | 0.3             | 0.3                   | 0.3             | 0.0           | 0.0            | 0.7        | 0.1          | 0.1          | 0.0            | 0.1          | 0.1        | 0.6         | 0.7              | 0.1               | 1.4        | 1.1                         | 23.1        |      |
| 12 | Orkhon                 | 22.4         | 6.5                   | 16.0                  | 2.6        | 1.8        | 0.4          | 0.8        | 1.3            | 0.2           | 0.7               | 0.7         | 1.6                         | 0.2        | 0.3                          | 0.4             | 0.5                   | 0.0             | 0.3           | 0.8            | 0.2        | 0.1          | 0.2          | 0.0            | 0.1          | 0.3        | 0.8         | 1.1              | 1.0               | 2.2        | 2.8                         | 27.4        |      |
| 13 | Uvurkhangai            | 17.9         | 5.8                   | 12.2                  | 1.7        | 2.6        | 0.3          | 1.1        | 0.2            | 0.0           | 0.5               | 0.5         | 1.8                         | 0.1        | 0.2                          | 0.3             | 0.1                   | 0.2             | 0.1           | 0.4            | 0.2        | 0.1          | 0.3          | 0.2            | 0.1          | 0.3        | 0.5         | 0.6              | 0.6               | 2.6        | 1.5                         | 22.0        |      |
| 14 | Umnugovi               | 24.4         | 10.2                  | 14.2                  | 1.6        | 2.8        | 0.2          | 1.3        | 0.5            | 0.0           | 0.5               | 0.3         | 2.3                         | 0.0        | 0.2                          | 0.5             | 0.5                   | 0.0             | 0.0           | 1.0            | 0.2        | 0.2          | 0.2          | 0.2            | 0.2          | 0.2        | 0.2         | 0.7              | 0.7               | 1.3        | 2.3                         | 28.0        |      |
| 15 | Sukhbaatar             | 22.5         | 8.4                   | 14.1                  | 1.7        | 2.6        | 0.3          | 0.5        | 0.5            | 0.0           | 0.5               | 0.9         | 1.9                         | 0.2        | 0.3                          | 0.3             | 0.5                   | 0.3             | 0.0           | 1.4            | 0.3        | 0.2          | 0.3          | 0.0            | 0.2          | 0.2        | 0.9         | 0.5              | 0.3               | 0.3        | 1.2                         | 24.0        |      |
| 16 | Selenge                | 16.5         | 5.6                   | 10.9                  | 2.0        | 2.6        | 0.2          | 0.8        | 0.2            | 0.1           | 0.5               | 0.4         | 1.1                         | 0.0        | 0.2                          | 0.1             | 0.4                   | 0.2             | 0.0           | 0.5            | 0.3        | 0.2          | 0.0          | 0.0            | 0.1          | 0.2        | 0.5         | 0.8              | 0.4               | 1.6        | 1.6                         | 19.7        |      |
| 17 | Tuv                    | 18.3         | 7.6                   | 10.6                  | 1.1        | 1.8        | 0.2          | 0.6        | 0.4            | 0.1           | 0.2               | 0.4         | 1.8                         | 0.1        | 0.1                          | 0.2             | 0.2                   | 0.3             | 0.0           | 1.2            | 0.7        | 0.2          | 0.7          | 0.0            | 0.1          | 0.1        | 0.2         | 0.3              | 0.6               | 2.1        | 0.6                         | 20.9        |      |
| 18 | Uvs                    | 18.5         | 9.2                   | 9.3                   | 1.4        | 1.7        | 0.3          | 0.5        | 0.1            | 0.1           | 0.3               | 0.4         | 1.5                         | 0.1        | 0.3                          | 0.4             | 0.3                   | 0.1             | 0.1           | 0.4            | 0.3        | 0.1          | 0.0          | 0.1            | 0.1          | 0.1        | 0.5         | 0.4              | 0.4               | 1.7        | 1.4                         | 21.6        |      |
| 19 | Khovd                  | 20.6         | 6.2                   | 14.4                  | 1.8        | 2.1        | 0.6          | 1.2        | 0.5            | 0.6           | 0.0               | 0.5         | 2.1                         | 0.1        | 0.5                          | 0.4             | 0.5                   | 0.0             | 0.1           | 0.7            | 0.2        | 0.1          | 0.1          | 0.1            | 0.1          | 0.4        | 0.8         | 0.4              | 1.5               | 1.3        | 1.6                         | 23.5        |      |
| 20 | Khuvsgul               | 15.9         | 4.0                   | 11.9                  | 2.0        | 2.7        | 0.2          | 0.6        | 0.2            | 0.1           | 0.3               | 0.6         | 1.3                         | 0.1        | 0.2                          | 0.3             | 0.2                   | 0.2             | 0.0           | 0.6            | 0.2        | 0.1          | 0.4          | 0.1            | 0.1          | 0.1        | 0.7         | 0.2              | 0.9               | 1.2        | 1.1                         | 18.2        |      |
| 21 | Khentii                | 19.1         | 5.8                   | 13.2                  | 2.1        | 2.4        | 0.3          | 0.7        | 0.4            | 0.0           | 0.7               | 0.6         | 1.4                         | 0.1        | 0.1                          | 0.1             | 0.3                   | 0.1             | 0.0           | 1.3            | 0.8        | 0.4          | 0.1          | 0.3            | 0.1          | 0.1        | 0.3         | 0.7              | 1.3               | 1.4        | 1.1                         | 21.6        |      |
| 22 | <b>Aimags average</b>  | <b>19.6</b>  | <b>7.1</b>            | <b>12.5</b>           | <b>1.8</b> | <b>2.2</b> | <b>0.3</b>   | <b>0.9</b> | <b>0.4</b>     | <b>0.1</b>    | <b>0.5</b>        | <b>0.6</b>  | <b>1.6</b>                  | <b>0.2</b> | <b>0.2</b>                   | <b>0.3</b>      | <b>0.3</b>            | <b>0.2</b>      | <b>0.0</b>    | <b>0.8</b>     | <b>0.3</b> | <b>0.2</b>   | <b>0.2</b>   | <b>0.1</b>     | <b>0.1</b>   | <b>0.2</b> | <b>0.6</b>  | <b>0.5</b>       | <b>0.7</b>        | <b>1.5</b> | <b>1.6</b>                  | <b>22.6</b> |      |
| 23 | Ulaanbaatar            | 33.5         | 6.1                   | 27.4                  | 4.8        | 2.4        | 0.5          | 1.9        | 1.2            | 0.4           | 1.2               | 3.3         | 0.2                         | 0.6        | 0.7                          | 0.6             | 0.7                   | 0.1             | 1.2           | 0.3            | 0.4        | 0.7          | 0.1          | 0.1            | 0.4          | 2.3        | 1.6         | 1.4              | 3.3               | 5.5        | 42.3                        |             |      |
| 24 | <b>Country average</b> | <b>25.9</b>  | <b>6.6</b>            | <b>19.3</b>           | <b>3.1</b> | <b>2.3</b> | <b>0.4</b>   | <b>1.4</b> | <b>0.7</b>     | <b>0.2</b>    | <b>0.8</b>        | <b>1.0</b>  | <b>2.4</b>                  | <b>0.2</b> | <b>0.4</b>                   | <b>0.5</b>      | <b>0.5</b>            | <b>0.4</b>      | <b>0.1</b>    | <b>0.9</b>     | <b>0.3</b> | <b>0.3</b>   | <b>0.4</b>   | <b>0.1</b>     | <b>0.1</b>   | <b>0.3</b> | <b>1.4</b>  | <b>1.0</b>       | <b>2.3</b>        | <b>3.4</b> | <b>31.6</b>                 |             |      |

### Health Facilities, /2011-2015/



### Physicians, by Specialities, per 10000 population /2005-2015/



## NURSES, BY SPECIALTIES, PER 10 000 POPULATION, 2015

| №  | Aimags and city        | Total nurses | General Practitioners | Basic and specialized | Out        |            |              |            |                |               |                   |             |                             |            |                              |                 |                       |                 |               |                |              |              |                |              | Traditional medicine nurses | "Home nurse mouth" | Total      |            |             |
|----|------------------------|--------------|-----------------------|-----------------------|------------|------------|--------------|------------|----------------|---------------|-------------------|-------------|-----------------------------|------------|------------------------------|-----------------|-----------------------|-----------------|---------------|----------------|--------------|--------------|----------------|--------------|-----------------------------|--------------------|------------|------------|-------------|
|    |                        |              |                       |                       | Internist  | Pediatric  | Out: Infants | Surgeon    | Traumatologist | Resuscitation | Anaesthesiologist | Neurologist | Obstetrics and gynecologist | Oncologist | Psychiatrist and neurologist | Ophthalmologist | Otorhinolaryngologist | Plastic surgeon | Dermatologist | Infectiologist | Tuberculosis | Venerologist | Rehabilitation | Facilitation |                             |                    |            | Elderly    | Other       |
| A  | B                      | 1            | 2                     | 3                     | 4          | 5          | 6            | 7          | 8              | 9             | 10                | 11          | 12                          | 13         | 14                           | 15              | 16                    | 17              | 18            | 19             | 20           | 21           | 22             | 23           | 24                          | 25                 | 26         | 27         | 28          |
| 1  | Arkhangai              | 27.8         | 17.8                  | 9.9                   | 1.2        | 2.3        | 0.6          | 1.8        | 0.0            | 0.1           | 0.6               | 0.6         | 0.4                         | 0.0        | 0.5                          | 0.1             | 0.1                   | 0.0             | 0.0           | 1.4            | 0.6          | 0.1          | 0.3            | 0.2          | 0.0                         | 0.1                | 1.5        | 0.2        | 29.5        |
| 2  | Bayan-Ulgii            | 29.4         | 21.3                  | 8.1                   | 0.0        | 1.6        | 1.0          | 1.7        | 0.1            | 0.3           | 0.7               | 0.1         | 0.0                         | 0.0        | 0.2                          | 0.2             | 0.1                   | 0.0             | 0.0           | 0.2            | 0.0          | 0.1          | 0.5            | 0.1          | 0.1                         | 2.0                | 0.8        | 0.2        | 30.4        |
| 3  | Bayankhongor           | 33.4         | 24.4                  | 9.0                   | 0.2        | 1.7        | 0.6          | 1.3        | 0.1            | 0.4           | 1.2               | 0.1         | 0.5                         | 0.1        | 0.1                          | 0.1             | 0.1                   | 0.0             | 0.0           | 0.1            | 0.0          | 0.1          | 0.4            | 0.4          | 0.0                         | 2.2                | 1.2        | 0.4        | 35.0        |
| 4  | Bulgan                 | 31.0         | 14.9                  | 16.1                  | 2.3        | 3.2        | 0.7          | 2.3        | 0.0            | 0.0           | 1.0               | 1.3         | 2.0                         | 0.2        | 0.7                          | 0.2             | 0.2                   | 0.2             | 0.0           | 2.2            | 1.0          | 0.2          | 0.0            | 0.0          | 0.3                         | 0.2                | 1.7        | 0.2        | 32.9        |
| 5  | Govi-Altai             | 40.7         | 24.3                  | 16.5                  | 1.9        | 5.0        | 1.6          | 2.3        | 0.2            | 0.0           | 1.6               | 0.9         | 0.4                         | 0.2        | 0.9                          | 0.2             | 0.2                   | 0.0             | 0.0           | 1.6            | 1.1          | 0.2          | 0.7            | 0.4          | 0.0                         | 0.2                | 2.3        | 0.5        | 43.6        |
| 6  | Gobi-Sumber            | 36.8         | 19.0                  | 17.8                  | 3.1        | 5.5        | 2.5          | 3.1        | 0.0            | 0.6           | 0.0               | 0.0         | 0.0                         | 0.0        | 0.0                          | 0.0             | 0.6                   | 0.0             | 0.0           | 3.7            | 0.0          | 0.0          | 0.0            | 0.0          | 0.0                         | 1.2                | 0.0        | 0.6        | 37.4        |
| 7  | Darkhan-Uul            | 36.5         | 12.3                  | 24.2                  | 1.5        | 3.6        | 0.5          | 2.3        | 1.2            | 0.0           | 1.5               | 0.5         | 2.4                         | 0.0        | 2.4                          | 0.3             | 0.2                   | 0.0             | 0.0           | 3.1            | 1.5          | 0.1          | 1.0            | 0.2          | 0.5                         | 3.6                | 1.1        | 2.1        | 39.7        |
| 8  | Dornogovi              | 31.1         | 18.6                  | 12.6                  | 0.9        | 2.2        | 0.9          | 2.9        | 0.2            | 0.6           | 0.9               | 0.8         | 0.2                         | 0.0        | 0.2                          | 0.2             | 0.2                   | 0.0             | 0.0           | 1.2            | 0.2          | 0.2          | 1.2            | 0.2          | 0.0                         | 0.8                | 0.9        | 0.2        | 32.2        |
| 9  | Dornod                 | 34.7         | 24.1                  | 10.5                  | 0.3        | 1.3        | 0.8          | 2.4        | 0.0            | 1.2           | 0.4               | 0.0         | 2.2                         | 0.1        | 0.4                          | 0.0             | 0.5                   | 0.0             | 0.0           | 0.0            | 0.0          | 0.3          | 0.9            | 0.1          | 0.1                         | 0.5                | 0.9        | 0.0        | 35.6        |
| 10 | Dundgovi               | 34.9         | 22.3                  | 12.6                  | 2.3        | 2.9        | 0.9          | 1.4        | 0.5            | 0.9           | 1.1               | 0.9         | 0.0                         | 0.0        | 0.0                          | 0.2             | 0.2                   | 0.0             | 0.0           | 1.6            | 0.2          | 0.2          | 0.7            | 0.0          | 0.0                         | 0.0                | 0.2        | 0.5        | 35.6        |
| 11 | Zavkhan                | 37.0         | 19.8                  | 17.2                  | 0.4        | 5.4        | 1.4          | 3.2        | 0.3            | 0.4           | 2.1               | 0.3         | 0.4                         | 0.3        | 0.3                          | 0.3             | 0.1                   | 0.1             | 0.0           | 0.7            | 0.4          | 0.1          | 0.9            | 0.3          | 0.1                         | 1.4                | 2.0        | 0.3        | 39.2        |
| 12 | Orkhon                 | 34.8         | 22.1                  | 12.7                  | 1.0        | 2.0        | 1.2          | 2.0        | 0.6            | 2.0           | 1.3               | 0.1         | 0.1                         | 0.1        | 0.0                          | 0.1             | 0.1                   | 0.0             | 0.1           | 0.3            | 0.1          | 0.1          | 0.6            | 0.3          | 0.0                         | 1.7                | 1.2        | 0.2        | 36.3        |
| 13 | Uvurkhangai            | 27.7         | 16.1                  | 11.6                  | 1.2        | 2.4        | 1.0          | 1.1        | 0.4            | 0.9           | 1.2               | 0.3         | 0.0                         | 0.1        | 0.4                          | 0.1             | 0.5                   | 0.1             | 0.0           | 0.5            | 0.4          | 0.1          | 0.5            | 0.2          | 0.1                         | 1.7                | 0.8        | 0.2        | 28.7        |
| 14 | Umnugovi               | 27.2         | 14.5                  | 12.7                  | 0.0        | 2.6        | 1.5          | 1.3        | 0.3            | 0.7           | 1.6               | 0.2         | 0.0                         | 0.0        | 0.3                          | 0.2             | 0.2                   | 0.0             | 0.0           | 0.7            | 0.2          | 0.2          | 1.2            | 0.2          | 0.3                         | 3.0                | 0.7        | 0.0        | 27.9        |
| 15 | Sukhbaatar             | 36.1         | 20.6                  | 15.5                  | 0.7        | 3.1        | 0.9          | 1.0        | 0.3            | 0.0           | 0.9               | 0.2         | 0.2                         | 0.0        | 0.9                          | 0.2             | 0.2                   | 0.0             | 0.0           | 1.0            | 0.3          | 0.0          | 2.2            | 0.2          | 0.2                         | 4.3                | 0.3        | 0.2        | 36.6        |
| 16 | Selenge                | 26.4         | 16.2                  | 10.3                  | 0.8        | 2.7        | 1.3          | 1.8        | 0.2            | 0.1           | 1.4               | 0.1         | 0.2                         | 0.2        | 0.1                          | 0.3             | 0.4                   | 0.0             | 0.0           | 0.1            | 0.0          | 0.1          | 0.6            | 0.1          | 0.3                         | 1.0                | 0.8        | 0.3        | 27.5        |
| 17 | Tuv                    | 29.8         | 17.2                  | 12.6                  | 1.2        | 2.1        | 0.6          | 1.6        | 0.0            | 0.6           | 0.3               | 0.8         | 0.3                         | 0.1        | 0.1                          | 0.1             | 0.1                   | 0.1             | 0.0           | 1.4            | 0.7          | 0.1          | 1.2            | 0.0          | 0.0                         | 2.5                | 1.0        | 0.3        | 31.1        |
| 18 | Uvs                    | 33.9         | 22.0                  | 11.9                  | 0.3        | 4.2        | 0.9          | 1.3        | 0.5            | 0.5           | 0.9               | 0.1         | 1.1                         | 0.1        | 0.3                          | 0.1             | 0.3                   | 0.3             | 0.0           | 0.8            | 0.6          | 0.1          | 0.5            | 0.0          | 0.1                         | 0.5                | 0.3        | 0.3        | 34.4        |
| 19 | Khovd                  | 31.8         | 15.9                  | 15.9                  | 0.0        | 3.3        | 2.5          | 2.8        | 0.2            | 1.8           | 0.8               | 0.2         | 1.9                         | 0.1        | 0.6                          | 0.1             | 0.5                   | 0.1             | 0.1           | 0.5            | 0.0          | 0.1          | 0.1            | 0.4          | 0.2                         | 1.9                | 1.1        | 0.6        | 33.5        |
| 20 | Khuvsgul               | 27.5         | 19.1                  | 8.3                   | 0.2        | 2.0        | 0.8          | 1.3        | 0.1            | 0.6           | 0.9               | 0.0         | 0.0                         | 0.0        | 0.3                          | 0.1             | 0.1                   | 0.0             | 0.0           | 0.3            | 0.0          | 0.1          | 1.2            | 0.1          | 0.2                         | 1.2                | 1.0        | 0.2        | 28.6        |
| 21 | Khentii                | 32.0         | 21.8                  | 10.2                  | 0.1        | 2.4        | 1.3          | 1.5        | 0.1            | 0.3           | 1.9               | 0.0         | 0.3                         | 0.0        | 0.1                          | 0.1             | 0.6                   | 0.1             | 0.0           | 0.1            | 0.1          | 0.0          | 1.0            | 0.1          | 0.3                         | 1.0                | 1.4        | 0.3        | 33.7        |
| 22 | <b>Aimag average</b>   | <b>31.7</b>  | <b>19.0</b>           | <b>12.7</b>           | <b>0.8</b> | <b>2.7</b> | <b>1.0</b>   | <b>1.8</b> | <b>0.3</b>     | <b>0.6</b>    | <b>1.1</b>        | <b>0.3</b>  | <b>0.6</b>                  | <b>0.1</b> | <b>0.4</b>                   | <b>0.2</b>      | <b>0.2</b>            | <b>0.0</b>      | <b>0.0</b>    | <b>0.9</b>     | <b>0.4</b>   | <b>0.1</b>   | <b>0.8</b>     | <b>0.2</b>   | <b>0.1</b>                  | <b>1.5</b>         | <b>1.0</b> | <b>0.4</b> | <b>33.1</b> |
| 23 | Ulaanbaatar            | 37.9         | 10.8                  | 27.1                  | 5.1        | 3.4        | 1.0          | 2.8        | 0.5            | 1.7           | 2.1               | 1.0         | 2.3                         | 0.6        | 0.8                          | 0.4             | 0.4                   | 0.4             | 0.0           | 1.7            | 0.6          | 0.2          | 1.8            | 0.1          | 0.1                         | 2.1                | 1.8        | 3.0        | 42.8        |
| 24 | <b>Country average</b> | <b>34.5</b>  | <b>15.3</b>           | <b>19.3</b>           | <b>2.7</b> | <b>3.0</b> | <b>1.0</b>   | <b>2.3</b> | <b>0.4</b>     | <b>1.1</b>    | <b>1.5</b>        | <b>0.6</b>  | <b>1.4</b>                  | <b>0.3</b> | <b>0.6</b>                   | <b>0.3</b>      | <b>0.3</b>            | <b>0.2</b>      | <b>0.0</b>    | <b>1.2</b>     | <b>0.5</b>   | <b>0.2</b>   | <b>1.2</b>     | <b>0.1</b>   | <b>0.1</b>                  | <b>1.8</b>         | <b>1.4</b> | <b>1.6</b> | <b>37.5</b> |

## AVERAGE LENGTH OF STAY IN HOSPITAL, BY BED SPECIALITIES, 2015

| Aimag and city | Specialities           |         |            |             |            |                     |             |              |           |                          |              |            |          |             |               |                |        |             |          |                      |            |               |       |     | Total |
|----------------|------------------------|---------|------------|-------------|------------|---------------------|-------------|--------------|-----------|--------------------------|--------------|------------|----------|-------------|---------------|----------------|--------|-------------|----------|----------------------|------------|---------------|-------|-----|-------|
|                | Internal medicine      | Surgery | Obstetrics | Gynaecology | Pediatrics | Infectious diseases | Dermatology | Tuberculosis | Neurology | Psychiatry and narcology | Traumatology | Nephrology | Urology, | Reanimation | Ophthalmology | Otolaryngology | Dental | Stomatology | Oncology | Traditional medicine | Venerology | Unspecialized | Other |     |       |
| A              | 1                      | 2       | 3          | 4           | 5          | 6                   | 7           | 8            | 9         | 10                       | 11           | 12         | 13       | 14          | 15            | 16             | 17     | 18          | 19       | 20                   | 21         | 22            | 23    | 24  |       |
| B              |                        |         |            |             |            |                     |             |              |           |                          |              |            |          |             |               |                |        |             |          |                      |            |               |       |     |       |
| 1              | Arkhangai              | 7.8     | 6.1        | 4.3         | 7.4        | 6.9                 | 7.7         | 0.0          | 23.1      | 8.8                      | 10.3         | 0.0        | 0.0      | 0.0         | 8.6           | 8.0            | 0.0    | 6.4         | 8.6      | 9.2                  | 0.0        | 0.0           | 0.0   | 7.2 |       |
| 2              | Bayan-Ulgii            | 7.8     | 6.2        | 5.0         | 6.2        | 5.9                 | 8.0         | 8.2          | 45.5      | 8.4                      | 10.6         | 7.9        | 0.0      | 0.0         | 8.3           | 7.7            | 0.0    | 7.4         | 6.0      | 0.0                  | 0.0        | 0.0           | 8.3   | 7.2 |       |
| 3              | Bayankhongor           | 8.0     | 5.6        | 5.0         | 5.7        | 6.8                 | 8.6         | 8.1          | 29.9      | 8.2                      | 8.7          | 8.4        | 0.0      | 0.0         | 7.7           | 6.1            | 0.0    | 6.6         | 6.6      | 8.4                  | 0.0        | 0.0           | 7.2   | 7.2 |       |
| 4              | Bulgan                 | 7.5     | 5.9        | 4.8         | 7.8        | 7.1                 | 9.9         | 9.7          | 19.5      | 8.5                      | 10.0         | 0.0        | 0.0      | 0.0         | 6.4           | 7.2            | 0.0    | 5.4         | 8.9      | 7.8                  | 0.0        | 0.0           | 0.0   | 7.3 |       |
| 5              | Govi-Altai             | 8.2     | 5.7        | 3.9         | 6.7        | 7.8                 | 7.8         | 8.3          | 17.2      | 8.8                      | 9.4          | 8.8        | 0.0      | 0.0         | 25.3          | 6.6            | 7.4    | 7.4         | 6.9      | 7.1                  | 0.0        | 0.0           | 0.0   | 7.5 |       |
| 6              | Gobi-Sumber            | 8.6     | 7.8        | 5.3         | 6.3        | 6.9                 | 10.0        | 7.2          | 0.0       | 7.8                      | 0.0          | 0.0        | 0.0      | 2.1         | 0.0           | 0.0            | 0.0    | 0.0         | 0.0      | 0.0                  | 0.0        | 0.0           | 0.0   | 7.6 |       |
| 7              | Darkhan-Uul            | 8.1     | 4.9        | 3.9         | 6.0        | 6.5                 | 8.8         | 8.6          | 29.2      | 7.7                      | 10.4         | 9.1        | 0.0      | 0.0         | 6.6           | 7.4            | 0.0    | 6.9         | 6.4      | 8.4                  | 0.0        | 0.0           | 0.0   | 7.3 |       |
| 8              | Dornogovi              | 8.3     | 6.1        | 4.1         | 3.5        | 6.8                 | 8.0         | 0.0          | 36.7      | 8.7                      | 8.0          | 0.0        | 0.0      | 0.0         | 0.0           | 0.0            | 0.0    | 0.0         | 0.0      | 9.8                  | 0.0        | 0.0           | 8.1   | 7.1 |       |
| 9              | Dornod                 | 7.6     | 6.1        | 3.9         | 5.3        | 6.1                 | 8.8         | 10.2         | 39.9      | 9.6                      | 10.6         | 0.0        | 0.0      | 0.0         | 10.4          | 7.4            | 0.0    | 0.0         | 8.5      | 0.0                  | 0.0        | 0.0           | 0.0   | 7.6 |       |
| 10             | Dundgovi               | 8.1     | 5.8        | 4.6         | 5.2        | 6.5                 | 7.3         | 8.1          | 32.4      | 8.9                      | 4.6          | 7.2        | 0.0      | 2.2         | 7.0           | 7.6            | 0.0    | 6.8         | 0.0      | 0.0                  | 0.0        | 0.0           | 0.0   | 7.1 |       |
| 11             | Zavkhan                | 8.3     | 5.8        | 5.4         | 6.9        | 6.9                 | 8.6         | 9.7          | 38.7      | 9.4                      | 10.5         | 7.0        | 0.0      | 7.5         | 7.4           | 6.3            | 0.0    | 0.0         | 0.0      | 8.9                  | 0.0        | 0.0           | 0.0   | 7.8 |       |
| 12             | Orkhon                 | 7.9     | 5.6        | 4.9         | 7.0        | 6.6                 | 9.2         | 0.0          | 24.0      | 9.1                      | 8.9          | 9.1        | 0.0      | 14.4        | 0.0           | 6.3            | 0.0    | 0.0         | 0.0      | 9.2                  | 0.0        | 10.5          | 7.7   | 7.7 |       |
| 13             | Uvurkhangai            | 7.9     | 6.4        | 2.9         | 9.0        | 7.0                 | 8.7         | 8.5          | 37.4      | 9.1                      | 9.9          | 9.9        | 0.0      | 10.2        | 7.6           | 7.0            | 0.0    | 6.5         | 8.2      | 8.7                  | 0.0        | 8.2           | 0.0   | 7.3 |       |
| 14             | Umnugovi               | 8.1     | 5.3        | 3.6         | 4.1        | 6.2                 | 7.3         | 9.6          | 29.0      | 9.2                      | 6.1          | 0.0        | 0.0      | 3.9         | 0.0           | 0.0            | 0.0    | 0.0         | 0.0      | 7.7                  | 0.0        | 9.3           | 0.0   | 6.7 |       |
| 15             | Sukhbaatar             | 8.7     | 6.3        | 4.5         | 7.0        | 7.9                 | 8.6         | 0.0          | 40.0      | 8.9                      | 9.9          | 8.1        | 0.0      | 0.0         | 8.3           | 7.6            | 0.0    | 5.6         | 8.5      | 9.3                  | 0.0        | 0.0           | 0.0   | 8.2 |       |
| 16             | Selenge                | 8.4     | 5.9        | 4.4         | 6.8        | 6.9                 | 9.3         | 19.8         | 36.8      | 8.6                      | 10.3         | 0.0        | 0.0      | 0.0         | 8.8           | 7.2            | 0.0    | 0.0         | 7.8      | 9.4                  | 0.0        | 0.0           | 0.0   | 7.8 |       |
| 17             | Tuv                    | 7.7     | 7.0        | 4.5         | 5.8        | 6.8                 | 8.6         | 8.4          | 30.6      | 9.0                      | 0.0          | 8.9        | 0.0      | 12.8        | 6.9           | 7.3            | 0.0    | 7.0         | 7.6      | 9.0                  | 0.0        | 0.0           | 0.0   | 7.6 |       |
| 18             | Uvs                    | 7.7     | 5.9        | 4.2         | 6.7        | 6.6                 | 6.9         | 9.5          | 16.4      | 8.9                      | 10.3         | 0.0        | 0.0      | 4.6         | 7.0           | 5.3            | 0.0    | 6.2         | 7.4      | 9.2                  | 0.0        | 0.0           | 0.0   | 6.7 |       |
| 19             | Khovd                  | 8.0     | 6.5        | 4.3         | 8.0        | 7.2                 | 8.1         | 9.3          | 23.1      | 9.5                      | 12.0         | 8.1        | 0.0      | 13.3        | 5.2           | 7.0            | 0.0    | 6.5         | 0.0      | 8.8                  | 0.0        | 7.4           | 9.8   | 7.7 |       |
| 20             | Khuvsgul               | 7.7     | 4.4        | 2.5         | 6.1        | 6.4                 | 8.1         | 7.9          | 27.8      | 8.8                      | 11.1         | 0.0        | 0.0      | 3.1         | 0.0           | 0.0            | 0.0    | 0.0         | 0.0      | 8.9                  | 0.0        | 6.1           | 0.0   | 6.7 |       |
| 21             | Khentii                | 7.9     | 5.9        | 4.6         | 6.9        | 6.8                 | 8.5         | 8.8          | 20.9      | 8.8                      | 0.0          | 0.0        | 0.0      | 4.0         | 8.7           | 8.1            | 0.0    | 0.0         | 8.1      | 9.9                  | 0.0        | 0.0           | 9.0   | 7.4 |       |
| 22             | <b>Aimag average</b>   | 8.0     | 5.8        | 4.2         | 6.3        | 6.7                 | 8.4         | 9.1          | 29.2      | 8.8                      | 10.0         | 8.5        | 0.0      | 7.0         | 7.5           | 7.2            | 0.0    | 6.8         | 7.7      | 8.7                  | 0.0        | 8.8           | 7.6   | 7.3 |       |
| 23             | Ulaanbaatar            | 7.8     | 6.4        | 3.5         | 6.8        | 6.4                 | 7.1         | 9.5          | 29.6      | 8.4                      | 30.0         | 9.8        | 6.4      | 15.9        | 4.7           | 5.8            | 0.0    | 5.1         | 7.3      | 7.8                  | 0.0        | 7.9           | 7.9   | 7.3 |       |
| 24             | <b>Country average</b> | 7.9     | 6.1        | 3.8         | 6.5        | 6.6                 | 7.6         | 9.3          | 29.4      | 8.5                      | 20.7         | 9.4        | 6.4      | 12.9        | 5.3           | 6.4            | 0.0    | 5.6         | 7.4      | 8.2                  | 0.0        | 8.3           | 7.8   | 7.3 |       |

## UTILIZATION OF HOSPITAL BEDS, 2015

| A  | Bimags and city        | Total                   |                        |                        |                                     | Aimag, city general hospitals |                        |                        |                                     | Rural general hospitals |                        |                        |                                     |
|----|------------------------|-------------------------|------------------------|------------------------|-------------------------------------|-------------------------------|------------------------|------------------------|-------------------------------------|-------------------------|------------------------|------------------------|-------------------------------------|
|    |                        | Utilization of bed fund | Percentage of bed fund | Average length of stay | Number of patients per bed per year | Utilization of bed fund       | Percentage of bed fund | Average length of stay | Number of patients per bed per year | Utilization of bed fund | Percentage of bed fund | Average length of stay | Number of patients per bed per year |
| 1  | 2                      | 3                       | 4                      | 5                      | 6                                   | 7                             | 8                      | 9                      | 10                                  | 11                      | 12                     |                        |                                     |
| 1  | Arkhangai              | 268.9                   | 81.5                   | 7.2                    | 37.4                                | 283.1                         | 85.8                   | 7.7                    | 37.0                                | 243.6                   | 73.8                   | 6.4                    | 38.2                                |
| 2  | Bayan-Ulgii            | 292.9                   | 88.8                   | 7.2                    | 40.5                                | 295.1                         | 89.4                   | 7.6                    | 38.7                                | 288.7                   | 87.5                   | 6.6                    | 44.0                                |
| 3  | Bayankhongor           | 289.5                   | 87.7                   | 7.2                    | 40.1                                | 289.1                         | 87.6                   | 7.4                    | 39.2                                | 290.8                   | 88.1                   | 6.8                    | 43.0                                |
| 4  | Bulgan                 | 255.6                   | 77.5                   | 7.3                    | 34.9                                | 260.9                         | 79.1                   | 7.7                    | 33.8                                | 245.7                   | 74.5                   | 6.6                    | 37.1                                |
| 5  | Govi-Altai             | 290.2                   | 88.0                   | 7.5                    | 38.6                                | 286.5                         | 86.8                   | 7.5                    | 38.0                                | 297.0                   | 90.0                   | 7.5                    | 39.7                                |
| 6  | Gobi-Sumber            | 328.7                   | 99.6                   | 7.6                    | 43.4                                | 326.4                         | 98.9                   | 7.6                    | 43.0                                | 343.8                   | 104.2                  | 7.5                    | 45.9                                |
| 7  | Darkhan-Uul            | 307.0                   | 93.0                   | 7.3                    | 42.1                                | 307.3                         | 93.1                   | 7.3                    | 42.4                                | 302.7                   | 91.7                   | 7.9                    | 38.4                                |
| 8  | Dornogovi              | 237.9                   | 72.1                   | 7.1                    | 33.7                                | 254.4                         | 77.1                   | 7.0                    | 36.4                                | 213.9                   | 64.8                   | 7.2                    | 29.8                                |
| 9  | Dornod                 | 304.0                   | 92.1                   | 7.6                    | 39.9                                | 311.3                         | 94.3                   | 7.8                    | 39.8                                | 269.5                   | 81.7                   | 6.7                    | 40.0                                |
| 10 | Dundgovi               | 314.2                   | 95.2                   | 7.1                    | 44.3                                | 319.7                         | 96.9                   | 7.2                    | 44.2                                | 299.0                   | 90.6                   | 6.7                    | 44.7                                |
| 11 | Zavkhan                | 258.6                   | 78.4                   | 7.8                    | 33.0                                | 279.2                         | 84.6                   | 8.2                    | 34.0                                | 235.5                   | 71.4                   | 7.4                    | 31.8                                |
| 12 | Orkhon                 | 262.2                   | 79.4                   | 7.7                    | 33.9                                | 263.5                         | 79.9                   | 7.7                    | 34.1                                | 181.7                   | 55.1                   | 7.4                    | 24.6                                |
| 13 | Uvurkhangai            | 251.3                   | 76.2                   | 7.3                    | 34.3                                | 262.4                         | 79.5                   | 7.6                    | 34.3                                | 237.4                   | 71.9                   | 6.9                    | 34.2                                |
| 14 | Umnugovi               | 183.5                   | 55.6                   | 6.7                    | 27.5                                | 232.1                         | 70.3                   | 6.8                    | 34.0                                | 119.8                   | 36.3                   | 6.3                    | 18.9                                |
| 15 | Sukhbaatar             | 285.8                   | 86.6                   | 8.2                    | 34.7                                | 316.1                         | 95.8                   | 8.3                    | 38.2                                | 235.9                   | 71.5                   | 8.2                    | 28.9                                |
| 16 | Selenge                | 257.6                   | 78.1                   | 7.8                    | 33.1                                | 277.1                         | 84.0                   | 8.3                    | 33.3                                | 239.2                   | 72.5                   | 7.3                    | 32.9                                |
| 17 | Tuv                    | 212.4                   | 64.4                   | 7.6                    | 28.1                                | 221.2                         | 67.0                   | 8.0                    | 27.6                                | 202.9                   | 61.5                   | 7.1                    | 28.6                                |
| 18 | Uvs                    | 232.8                   | 70.5                   | 6.7                    | 34.9                                | 233.3                         | 70.7                   | 6.7                    | 35.1                                | 231.9                   | 70.3                   | 6.7                    | 34.7                                |
| 19 | Khovd                  | 314.6                   | 95.3                   | 7.7                    | 41.1                                | 353.1                         | 107.0                  | 8.0                    | 44.2                                | 251.3                   | 76.2                   | 7.0                    | 35.9                                |
| 20 | Khuvsgul               | 239.9                   | 72.7                   | 6.7                    | 35.9                                | 281.7                         | 85.3                   | 6.8                    | 41.2                                | 177.6                   | 53.8                   | 6.4                    | 27.9                                |
| 21 | Khentii                | 265.6                   | 80.5                   | 7.4                    | 35.7                                | 264.8                         | 80.2                   | 7.7                    | 34.2                                | 266.9                   | 80.9                   | 7.0                    | 38.2                                |
| 22 | <b>Aimag average</b>   | <b>265.7</b>            | <b>80.5</b>            | <b>7.3</b>             | <b>36.2</b>                         | <b>281.6</b>                  | <b>85.3</b>            | <b>7.5</b>             | <b>37.4</b>                         | <b>235.1</b>            | <b>71.2</b>            | <b>6.9</b>             | <b>33.9</b>                         |
| 23 | Ulaanbaatar            | 266.2                   | 80.7                   | 7.3                    | 36.4                                | 0.0                           | 0.0                    | 0.0                    | 0.0                                 | 250.1                   | 75.8                   | 6.6                    | 37.7                                |
| 24 | <b>Country average</b> | <b>265.9</b>            | <b>80.6</b>            | <b>7.3</b>             | <b>36.3</b>                         | <b>272.0</b>                  | <b>82.4</b>            | <b>7.4</b>             | <b>36.7</b>                         | <b>235.4</b>            | <b>71.3</b>            | <b>6.9</b>             | <b>34.0</b>                         |

## NUMBER OF HOSPITAL BEDS, BY SPECIALITIES, PER 10000 POPULATION, 2015

| Aimags and city        | Internal medicine | Surgery | Obstetrics | Gynaecology | Pediatrics | Infectious | Dermatology | Tuberculosis | Neurology | Psychiatry and<br>narcolgy | Traumatology | Nephrology | Urology | Reanimation | Ophthalmology | Otolaryngology | Dental | Stamatology | Oncology | Traditional medicine | "Venereology" | "Unspecialized" | "Other" | Total |  |
|------------------------|-------------------|---------|------------|-------------|------------|------------|-------------|--------------|-----------|----------------------------|--------------|------------|---------|-------------|---------------|----------------|--------|-------------|----------|----------------------|---------------|-----------------|---------|-------|--|
| A                      | 1                 | 2       | 3          | 4           | 5          | 6          | 7           | 8            | 9         | 10                         | 11           | 12         | 13      | 14          | 15            | 16             | 17     | 18          | 19       | 20                   | 21            | 22              | 23      | 24    |  |
| B                      | 22.5              | 4.2     | 7.2        | 2.7         | 8.6        | 3.3        | 0.0         | 0.9          | 3.3       | 0.8                        | 0.0          | 0.0        | 0.0     | 0.0         | 0.2           | 0.2            | 0.0    | 0.2         | 0.3      | 0.6                  | 0.0           | 0.0             | 0.0     | 55.2  |  |
| Arkhangai              | 26.1              | 4.3     | 6.9        | 2.0         | 8.1        | 2.0        | 0.7         | 0.6          | 4.9       | 1.0                        | 1.0          | 0.0        | 0.0     | 0.8         | 1.0           | 1.2            | 0.0    | 1.1         | 0.6      | 1.2                  | 0.0           | 0.2             | 4.9     | 68.9  |  |
| Bayan-Ulgii            | 11.6              | 3.5     | 6.0        | 4.3         | 9.6        | 4.2        | 1.6         | 1.0          | 5.0       | 0.5                        | 1.2          | 0.0        | 0.0     | 0.7         | 1.4           | 0.2            | 0.0    | 0.2         | 0.2      | 2.5                  | 0.0           | 0.2             | 3.1     | 57.1  |  |
| Bayankhongor           | 15.8              | 4.1     | 5.3        | 3.0         | 9.3        | 4.0        | 0.8         | 1.2          | 4.8       | 0.7                        | 0.0          | 0.0        | 0.0     | 0.3         | 0.2           | 0.2            | 0.0    | 0.2         | 0.3      | 4.3                  | 0.0           | 0.0             | 0.7     | 55.1  |  |
| Bulgan                 | 20.2              | 6.2     | 6.0        | 3.7         | 8.9        | 7.1        | 0.9         | 0.7          | 4.8       | 0.4                        | 1.8          | 0.0        | 0.0     | 0.7         | 0.2           | 0.4            | 0.0    | 0.4         | 0.7      | 3.5                  | 0.0           | 0.0             | 0.0     | 66.4  |  |
| Govi-Altai             | 19.6              | 3.1     | 4.3        | 3.7         | 11.0       | 3.7        | 2.5         | 0.0          | 4.3       | 0.0                        | 3.7          | 0.0        | 0.0     | 1.2         | 0.0           | 3.1            | 0.0    | 0.0         | 1.2      | 0.0                  | 0.0           | 0.0             | 3.1     | 64.5  |  |
| Gobi-Sumber            | 18.8              | 3.2     | 3.4        | 4.2         | 8.9        | 2.2        | 2.4         | 3.0          | 5.3       | 2.3                        | 3.4          | 0.0        | 0.0     | 0.8         | 0.7           | 1.9            | 0.0    | 0.4         | 0.2      | 5.9                  | 0.0           | 0.3             | 0.0     | 67.1  |  |
| Darkhan-Uul            | 17.5              | 6.5     | 5.6        | 2.9         | 9.8        | 4.2        | 0.0         | 1.5          | 6.7       | 0.3                        | 0.0          | 0.0        | 0.0     | 1.5         | 0.0           | 0.0            | 0.0    | 0.0         | 0.0      | 3.1                  | 0.0           | 0.0             | 2.9     | 62.6  |  |
| Dornogovi              | 16.1              | 2.9     | 5.5        | 1.5         | 7.4        | 3.8        | 1.3         | 4.0          | 4.9       | 2.0                        | 2.0          | 0.0        | 0.0     | 0.7         | 1.3           | 0.4            | 0.0    | 0.0         | 0.8      | 2.0                  | 0.0           | 0.0             | 0.0     | 56.4  |  |
| Dornod                 | 16.2              | 2.5     | 7.7        | 1.6         | 9.9        | 3.8        | 0.7         | 0.5          | 2.0       | 0.2                        | 1.6          | 0.0        | 0.0     | 0.9         | 0.2           | 0.5            | 0.0    | 0.2         | 0.2      | 2.3                  | 0.0           | 0.2             | 0.0     | 51.1  |  |
| Dundgovi               | 25.6              | 3.4     | 9.2        | 1.9         | 10.3       | 5.3        | 0.7         | 0.7          | 7.9       | 0.4                        | 0.7          | 0.0        | 0.0     | 0.7         | 0.1           | 0.1            | 0.0    | 0.1         | 0.9      | 3.0                  | 0.0           | 0.0             | 0.0     | 71.2  |  |
| Zavkhan                | 14.0              | 2.6     | 8.1        | 1.7         | 6.0        | 4.1        | 0.0         | 3.1          | 3.6       | 4.6                        | 3.6          | 0.0        | 0.0     | 1.4         | 0.0           | 0.9            | 0.0    | 0.0         | 0.0      | 1.9                  | 0.0           | 2.6             | 3.1     | 61.4  |  |
| Orkhon                 | 18.4              | 5.1     | 5.9        | 5.9         | 10.7       | 5.1        | 1.2         | 0.9          | 1.5       | 0.5                        | 1.8          | 0.0        | 0.0     | 0.5         | 0.4           | 0.4            | 0.0    | 0.4         | 0.3      | 1.3                  | 0.0           | 0.4             | 0.0     | 60.7  |  |
| Uvurkhangai            | 20.9              | 5.4     | 9.7        | 4.1         | 13.5       | 4.3        | 0.8         | 0.8          | 4.8       | 0.8                        | 2.5          | 0.0        | 0.0     | 1.0         | 0.2           | 0.2            | 0.0    | 0.2         | 0.0      | 2.1                  | 0.0           | 0.8             | 1.3     | 73.5  |  |
| Umnugovi               | 19.1              | 2.2     | 5.5        | 3.8         | 9.6        | 4.1        | 0.0         | 2.2          | 3.1       | 1.5                        | 1.7          | 0.0        | 0.0     | 0.3         | 0.3           | 0.3            | 0.0    | 0.2         | 0.5      | 2.1                  | 0.0           | 0.0             | 6.0     | 62.7  |  |
| Sukhbaatar             | 18.2              | 3.0     | 5.3        | 5.4         | 10.4       | 4.5        | 0.4         | 2.9          | 2.6       | 0.9                        | 0.0          | 0.0        | 0.0     | 0.0         | 0.2           | 0.5            | 0.0    | 0.2         | 0.2      | 1.3                  | 0.0           | 0.0             | 2.4     | 58.4  |  |
| Selenge                | 18.2              | 2.2     | 6.2        | 1.7         | 9.6        | 5.0        | 1.1         | 1.1          | 5.5       | 0.2                        | 0.7          | 0.0        | 0.0     | 0.4         | 0.7           | 0.7            | 0.0    | 0.7         | 0.2      | 3.1                  | 0.0           | 0.0             | 0.4     | 57.7  |  |
| Tuv                    | 23.3              | 3.4     | 7.9        | 3.2         | 14.2       | 3.4        | 1.3         | 1.1          | 2.7       | 0.8                        | 1.0          | 0.0        | 0.0     | 0.5         | 1.0           | 0.3            | 0.0    | 0.1         | 1.0      | 1.1                  | 0.0           | 0.0             | 2.6     | 69.0  |  |
| Uvs                    | 19.4              | 4.2     | 6.8        | 4.2         | 11.8       | 3.9        | 1.6         | 1.0          | 3.8       | 1.5                        | 0.7          | 0.0        | 0.0     | 0.5         | 0.2           | 0.8            | 0.0    | 0.2         | 0.0      | 2.3                  | 0.0           | 0.6             | 4.1     | 67.6  |  |
| Khovd                  | 24.0              | 3.9     | 6.1        | 3.1         | 12.3       | 3.7        | 1.1         | 0.9          | 1.6       | 0.8                        | 0.0          | 0.0        | 0.0     | 0.5         | 0.0           | 0.0            | 0.0    | 0.0         | 0.0      | 1.8                  | 0.0           | 0.5             | 0.0     | 60.2  |  |
| Khuvsgul               | 13.5              | 5.0     | 6.7        | 1.9         | 12.4       | 4.4        | 0.6         | 1.9          | 2.4       | 0.6                        | 0.7          | 0.0        | 0.0     | 0.3         | 0.7           | 1.4            | 0.0    | 0.0         | 0.4      | 6.3                  | 0.0           | 0.1             | 1.0     | 60.2  |  |
| Khentii                | 19.2              | 3.9     | 6.4        | 3.2         | 10.1       | 4.0        | 0.9         | 1.5          | 3.9       | 1.1                        | 1.2          | 0.0        | 0.0     | 0.6         | 0.5           | 0.6            | 0.0    | 0.3         | 0.3      | 2.5                  | 0.0           | 0.3             | 1.6     | 62.1  |  |
| <b>Aimag average</b>   | 25.0              | 6.1     | 4.9        | 4.0         | 8.0        | 2.6        | 1.5         | 2.0          | 6.3       | 3.8                        | 4.6          | 1.2        | 0.7     | 1.7         | 1.1           | 1.1            | 0.0    | 0.3         | 0.9      | 5.3                  | 0.0           | 0.7             | 1.3     | 83.2  |  |
| Ulaanbaatar            | 21.8              | 4.9     | 5.7        | 3.6         | 9.1        | 3.4        | 1.2         | 1.8          | 5.0       | 2.3                        | 2.8          | 0.6        | 0.3     | 1.1         | 0.8           | 0.8            | 0.0    | 0.3         | 0.6      | 3.8                  | 0.0           | 0.5             | 1.5     | 71.8  |  |
| <b>Country average</b> |                   |         |            |             |            |            |             |              |           |                            |              |            |         |             |               |                |        |             |          |                      |               |                 |         |       |  |

## HEALTH ORGANIZATION BY LOCATION , 2015

| Aimags/city            | No        | Family hospitals | Village hospitals | Soum health center | Intersoum hospitals | District hospitals | Rural general hospitals | Aimags general hospitals | Regional Treatment and Diagnostic centers | Specialized Centers and Hospitals | Maternity hospitals | Rail sector hospitals | Private hospitals with beds | Private hospitals for outpatients | Ministry of health | Research institutions | Health department | Centre for Health Development | National Center for Zoonotic diseases centers | National Center for Blood Transfusion Research, provincial blood centers in the district | Emergency center and the districts in the industry | State Medical University, College | Private medical schools, colleges | Resort     | Medical Supply Organization | Drug factory | Private pharmacies | Other medical / border guards and enforcement officials Hospital, the prison hospital, defense, law | Railway Hospital | Total |
|------------------------|-----------|------------------|-------------------|--------------------|---------------------|--------------------|-------------------------|--------------------------|---|-----------------------------------|---------------------|-----------------------|-----------------------------|-----------------------------------|--------------------|-----------------------|-------------------|-------------------------------|---|--|--|-----------------------------------|-----------------------------------|------------|-----------------------------|--------------|--------------------|---|------------------|-------|
| A                      | 5         | 1                | 2                 | 3                  | 4                   | 5                  | 6                       | 7                        | 8   | 9                                 | 10                  | 11                    | 12                          | 13                                | 14                 | 15                    | 16                | 17                            | 18  | 19   | 20   | 21                                | 22                                | 23         | 24                          | 25           | 26                 | 27  | 28               |       |
| Arkhangai              | 1         | 5                | 0                 | 16                 | 2                   | 0                  | 0                       | 1                        | 0   | 0                                 | 0                   | 0                     | 6                           | 6                                 | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 0                                 | 0                                 | 3          | 5                           | 0            | 39                 | 0   | 85               |       |
| Bayan-Ulgii            | 2         | 4                | 2                 | 9                  | 3                   | 0                  | 0                       | 1                        | 0   | 0                                 | 0                   | 0                     | 5                           | 7                                 | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 0                                 | 2                                 | 4          | 0                           | 21           | 2                  | 62  |                  |       |
| Bayankhongor           | 3         | 5                | 1                 | 16                 | 3                   | 0                  | 0                       | 1                        | 0   | 0                                 | 0                   | 0                     | 7                           | 19                                | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 0                                 | 1                                 | 5          | 0                           | 15           | 1                  | 76  |                  |       |
| Bulgan                 | 4         | 2                | 1                 | 13                 | 2                   | 0                  | 0                       | 1                        | 0   | 0                                 | 0                   | 0                     | 4                           | 1                                 | 0                  | 0                     | 1                 | 0                             | 0   | 0  | 0  | 0                                 | 0                                 | 2          | 0                           | 25           | 0                  | 52  |                  |       |
| Govi-Altai             | 5         | 3                | 2                 | 14                 | 3                   | 0                  | 0                       | 1                        | 0   | 0                                 | 0                   | 0                     | 3                           | 11                                | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 1                                 | 0                                 | 0          | 2                           | 0            | 11                 | 1   | 54               |       |
| Gobi-Sumber            | 6         | 1                | 0                 | 2                  | 0                   | 0                  | 0                       | 1                        | 0   | 0                                 | 0                   | 1                     | 0                           | 4                                 | 0                  | 0                     | 1                 | 0                             | 0   | 0  | 0  | 0                                 | 0                                 | 0          | 0                           | 8            | 1                  | 19  |                  |       |
| Darkhan-Uul            | 7         | 5                | 0                 | 3                  | 0                   | 0                  | 0                       | 1                        | 0   | 0                                 | 0                   | 0                     | 13                          | 53                                | 0                  | 0                     | 1                 | 0                             | 0   | 0  | 1  | 0                                 | 0                                 | 0          | 0                           | 0            | 53                 | 0   | 130              |       |
| Dornogovi              | 8         | 5                | 0                 | 12                 | 1                   | 0                  | 1                       | 1                        | 0   | 0                                 | 0                   | 0                     | 3                           | 17                                | 0                  | 0                     | 1                 | 0                             | 0   | 0  | 0  | 1                                 | 0                                 | 3          | 3                           | 0            | 15                 | 5   | 68               |       |
| Dornod                 | 9         | 3                | 0                 | 10                 | 3                   | 0                  | 0                       | 0                        | 1   | 0                                 | 0                   | 0                     | 2                           | 15                                | 0                  | 0                     | 1                 | 0                             | 0   | 0  | 0  | 0                                 | 0                                 | 0          | 2                           | 0            | 10                 | 1   | 48               |       |
| Dundgovi               | 10        | 2                | 0                 | 13                 | 2                   | 0                  | 0                       | 1                        | 0   | 0                                 | 0                   | 0                     | 2                           | 12                                | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 0                                 | 0                                 | 0          | 2                           | 0            | 9                  | 0   | 45               |       |
| Zavkhan                | 11        | 4                | 0                 | 19                 | 3                   | 0                  | 1                       | 1                        | 0   | 0                                 | 0                   | 0                     | 4                           | 7                                 | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 0                                 | 0                                 | 2          | 4                           | 0            | 20                 | 1   | 68               |       |
| Orkhon                 | 12        | 11               | 0                 | 1                  | 0                   | 0                  | 0                       | 0                        | 1   | 0                                 | 0                   | 0                     | 11                          | 45                                | 0                  | 0                     | 1                 | 0                             | 0   | 0  | 0  | 0                                 | 0                                 | 1          | 8                           | 0            | 49                 | 1   | 129              |       |
| Uvurkhangai            | 13        | 5                | 0                 | 16                 | 1                   | 0                  | 1                       | 0                        | 1   | 0                                 | 0                   | 0                     | 6                           | 20                                | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 0                                 | 0                                 | 5          | 4                           | 0            | 33                 | 3   | 97               |       |
| Umnugovi               | 14        | 4                | 0                 | 11                 | 3                   | 0                  | 0                       | 0                        | 1   | 0                                 | 0                   | 0                     | 6                           | 19                                | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 0                                 | 0                                 | 0          | 4                           | 0            | 33                 | 3   | 86               |       |
| Sukhbaatar             | 15        | 3                | 0                 | 11                 | 1                   | 0                  | 0                       | 1                        | 0   | 0                                 | 0                   | 0                     | 3                           | 13                                | 0                  | 0                     | 1                 | 0                             | 0   | 0  | 0  | 0                                 | 0                                 | 0          | 2                           | 0            | 11                 | 0   | 46               |       |
| Selenge                | 16        | 7                | 6                 | 14                 | 1                   | 0                  | 1                       | 1                        | 0   | 0                                 | 0                   | 1                     | 6                           | 10                                | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 0                                 | 0                                 | 2          | 2                           | 0            | 29                 | 2   | 84               |       |
| Tuv                    | 17        | 1                | 0                 | 26                 | 0                   | 0                  | 0                       | 1                        | 0   | 0                                 | 0                   | 0                     | 2                           | 11                                | 0                  | 0                     | 1                 | 0                             | 0   | 0  | 0  | 0                                 | 12                                | 0          | 0                           | 13           | 2                  | 69  |                  |       |
| Uvs                    | 18        | 4                | 0                 | 15                 | 3                   | 0                  | 0                       | 1                        | 0   | 0                                 | 0                   | 0                     | 4                           | 9                                 | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 0                                 | 0                                 | 0          | 5                           | 0            | 18                 | 2   | 63               |       |
| Khovd                  | 19        | 6                | 0                 | 14                 | 1                   | 0                  | 1                       | 0                        | 1   | 0                                 | 0                   | 0                     | 5                           | 13                                | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 0                                 | 0                                 | 0          | 4                           | 0            | 12                 | 2   | 61               |       |
| Khuvsgul               | 20        | 5                | 0                 | 20                 | 5                   | 0                  | 0                       | 1                        | 0   | 0                                 | 0                   | 0                     | 11                          | 37                                | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 0                                 | 1                                 | 5          | 0                           | 37           | 0                  | 124   |                  |       |
| Khentii                | 21        | 4                | 2                 | 17                 | 2                   | 0                  | 1                       | 1                        | 0   | 0                                 | 0                   | 0                     | 2                           | 18                                | 0                  | 0                     | 1                 | 0                             | 1   | 0  | 0  | 0                                 | 3                                 | 2          | 0                           | 20           | 1                  | 75  |                  |       |
| <b>Aimags average</b>  | <b>22</b> | <b>89</b>        | <b>14</b>         | <b>272</b>         | <b>39</b>           | <b>0</b>           | <b>6</b>                | <b>16</b>                | <b>5</b>                                  | <b>0</b>                          | <b>0</b>            | <b>2</b>              | <b>105</b>                  | <b>347</b>                        | <b>0</b>           | <b>0</b>              | <b>21</b>         | <b>0</b>                      | <b>13</b>                                     | <b>0</b>   | <b>3</b>   | <b>0</b>                          | <b>35</b>                         | <b>65</b>  | <b>0</b>                    | <b>481</b>   | <b>28</b>          | <b>1541</b>   |                  |       |
| Ulaanbaatar            | 23        | 129              | 5                 | 0                  | 0                   | 12                 | 0                       | 0                        | 0   | 13                                | 3                   | 0                     | 119                         | 659                               | 1                  | 1                     | 1                 | 1                             | 1   | 4  | 1  | 5                                 | 70                                | 145        | 33                          | 486          | 13                 | 1703  |                  |       |
| <b>Country average</b> | <b>24</b> | <b>218</b>       | <b>19</b>         | <b>272</b>         | <b>39</b>           | <b>12</b>          | <b>6</b>                | <b>16</b>                | <b>5</b>                                  | <b>13</b>                         | <b>3</b>            | <b>2</b>              | <b>224</b>                  | <b>1006</b>                       | <b>1</b>           | <b>1</b>              | <b>22</b>         | <b>1</b>                      | <b>14</b>                                     | <b>1</b>   | <b>4</b>   | <b>5</b>                          | <b>105</b>                        | <b>210</b> | <b>33</b>                   | <b>967</b>   | <b>41</b>          | <b>3244</b>   |                  |       |

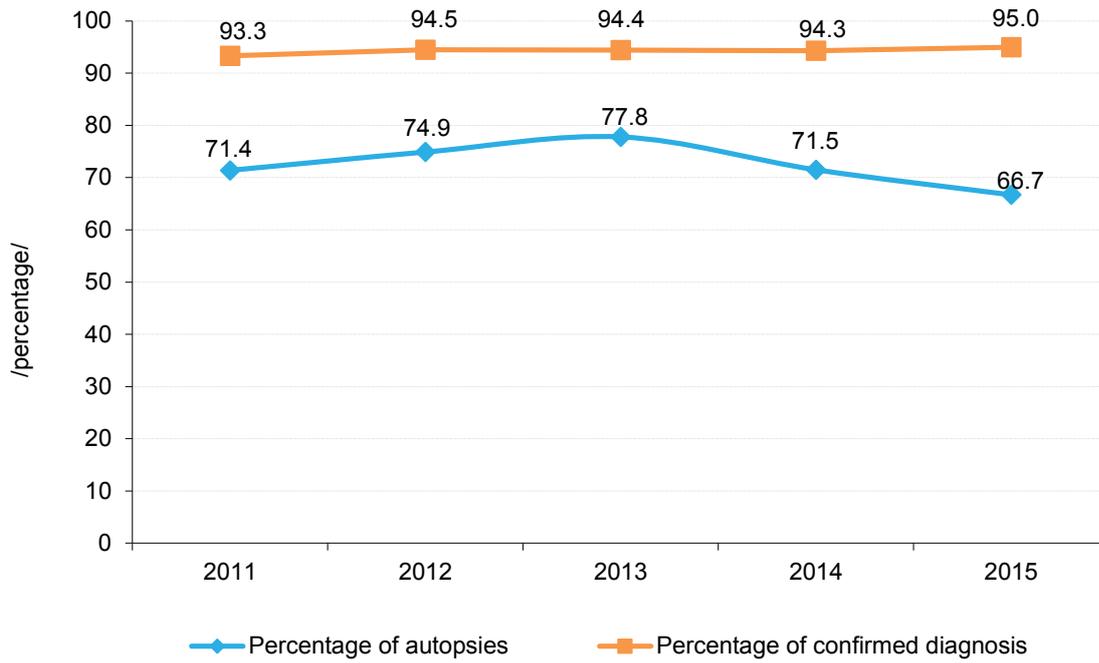
## POST OPERATIONAL COMPLICATIONS AND DEATHS, 2015

| No | Aimags and city        | Number of surgery | Percentage of complications | Percentage of deaths |
|----|------------------------|-------------------|-----------------------------|----------------------|
| A  |                        | 1                 | 2                           | 3                    |
| 1  | Arkhangai              | 1063              | 0.0                         | 0.0                  |
| 2  | Bayan-Ulgii            | 2222              | 0.2                         | 0.1                  |
| 3  | Bayankhongor           | 1845              | 0.1                         | 0.1                  |
| 4  | Bulgan                 | 715               | 0.3                         | 0.3                  |
| 5  | Govi-Altai             | 1393              | 0.0                         | 0.0                  |
| 6  | Gobi-Sumber            | 347               | 0.0                         | 0.0                  |
| 7  | Darkhan-Uul            | 2954              | 0.0                         | 0.0                  |
| 8  | Dornogovi              | 1662              | 0.0                         | 0.4                  |
| 9  | Dornod                 | 1678              | 0.0                         | 0.4                  |
| 10 | Dundgovi               | 848               | 0.5                         | 0.1                  |
| 11 | Zavkhan                | 1093              | 0.1                         | 0.1                  |
| 12 | Orkhon                 | 2501              | 0.5                         | 0.1                  |
| 13 | Uvurkhangai            | 2604              | 0.6                         | 0.2                  |
| 14 | Umnugovi               | 1572              | 0.3                         | 0.1                  |
| 15 | Sukhbaatar             | 922               | 0.1                         | 0.0                  |
| 16 | Selenge                | 5279              | 0.1                         | 0.0                  |
| 17 | Tuv                    | 5558              | 0.0                         | 0.0                  |
| 18 | Uvs                    | 1187              | 0.0                         | 0.0                  |
| 19 | Khovd                  | 1892              | 0.1                         | 0.0                  |
| 20 | Khuvsgul               | 2177              | 0.0                         | 0.2                  |
| 21 | Khentii                | 1209              | 0.0                         | 0.0                  |
| 22 | <b>Aimags average</b>  | <b>40721</b>      | <b>0.1</b>                  | <b>0.1</b>           |
| 23 | Ulaanbaatar            | 139972            | 0.1                         | 0.2                  |
| 24 | <b>Country average</b> | <b>180693</b>     | <b>0.1</b>                  | <b>0.2</b>           |

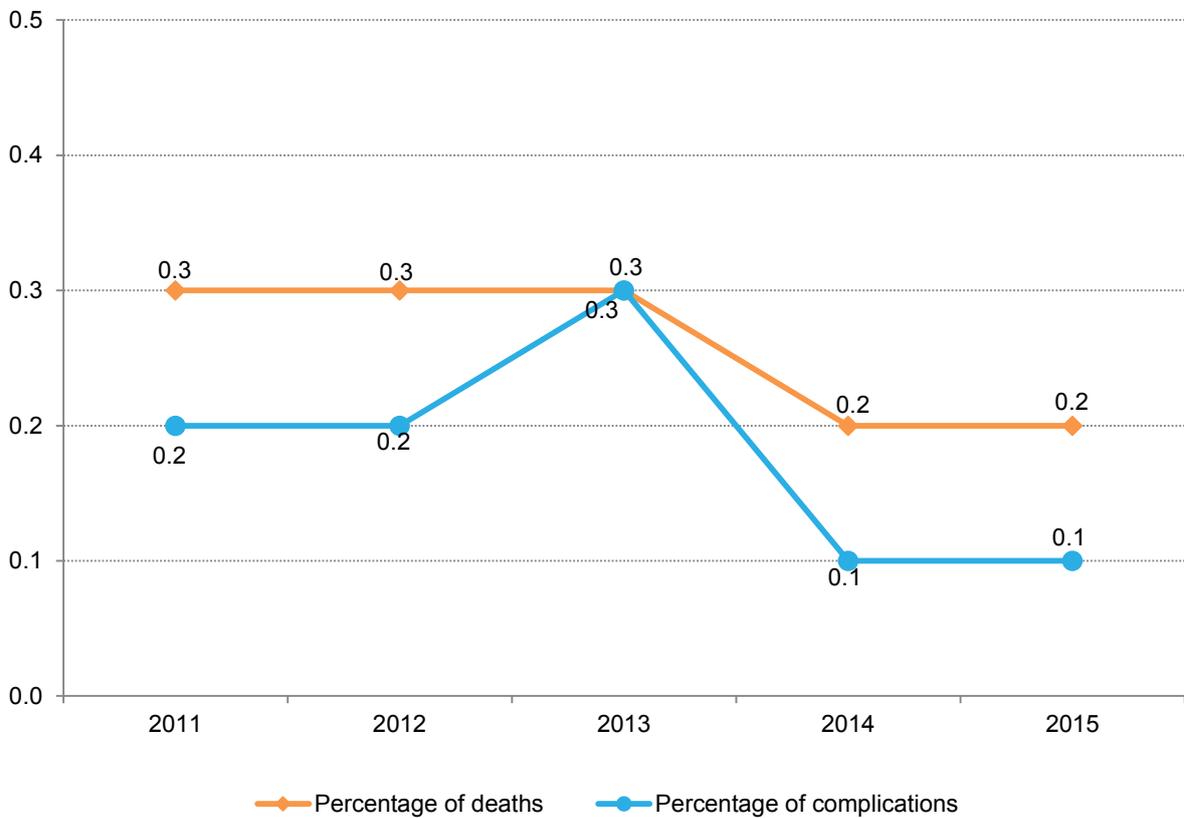
## PATHOLOGIC ANATOMY DIFFERENCE IN DIAGNOSIS, 2015

| No | Aimags and city        | No. of deaths | "The number of autopsies" | Percentage of autopsies | No. of difference in main diagnosis | Percentage of difference in main diagnosis |
|----|------------------------|---------------|---------------------------|-------------------------|-------------------------------------|--|
| A  |                        |               |                           |                         |                                     |  |
| B  |                        |               |                           |                         |                                     |  |
| 1  | Arkhangai              | 49            | 34                        | 77.6%                   | 2                                   | 5.9%                                       |
| 2  | Bayan-Ulgii            | 106           | 2                         | 2.8%                    | 0                                   | 0.0%                                       |
| 3  | Bayankhongor           | 84            | 48                        | 58.3%                   | 5                                   | 10.4%                                      |
| 4  | Bulgan                 | 33            | 18                        | 57.6%                   | 0                                   | 0.0%                                       |
| 5  | Govi-Altai             | 37            | 23                        | 73.0%                   | 1                                   | 4.3%                                       |
| 6  | Gobi-Sumber            | 13            | 8                         | 76.9%                   | 0                                   | 0.0%                                       |
| 7  | Darkhan-Uul            | 92            | 68                        | 87.0%                   | 3                                   | 4.4%                                       |
| 8  | Dornogovi              | 44            | 32                        | 90.9%                   | 1                                   | 3.1%                                       |
| 9  | Dornod                 | 91            | 65                        | 76.9%                   | 3                                   | 4.6%                                       |
| 10 | Dundgovi               | 23            | 16                        | 73.9%                   | 1                                   | 6.3%                                       |
| 11 | Zavkhan                | 48            | 23                        | 47.9%                   | 0                                   | 0.0%                                       |
| 12 | Orkhon                 | 98            | 76                        | 84.7%                   | 2                                   | 2.6%                                       |
| 13 | Uvurkhangai            | 77            | 51                        | 70.1%                   | 4                                   | 7.8%                                       |
| 14 | Umnugovi               | 50            | 37                        | 84.0%                   | 4                                   | 10.8%                                      |
| 15 | Sukhbaatar             | 42            | 30                        | 81.0%                   | 0                                   | 0.0%                                       |
| 16 | Selenge                | 17            | 15                        | 88.2%                   | 1                                   | 6.7%                                       |
| 17 | Tuv                    | 38            | 26                        | 68.4%                   | 6                                   | 23.1%                                      |
| 18 | Uvs                    | 41            | 36                        | 92.7%                   | 4                                   | 11.1%                                      |
| 19 | Khovd                  | 76            | 42                        | 59.2%                   | 1                                   | 2.4%                                       |
| 20 | Khuvsgul               | 106           | 75                        | 72.6%                   | 7                                   | 9.3%                                       |
| 21 | Khentii                | 31            | 21                        | 77.4%                   | 0                                   | 0.0%                                       |
| 22 | <b>Aimags average</b>  | <b>1196</b>   | <b>746</b>                | <b>68.1%</b>            | <b>45</b>                           | <b>6.0%</b>                                |
| 23 | Ulaanbaatar            | 2541          | 1599                      | 66.0%                   | 72                                  | 4.5%                                       |
| 24 | <b>Country average</b> | <b>3737</b>   | <b>2345</b>               | <b>66.7%</b>            | <b>117</b>                          | <b>5.0%</b>                                |

**Pathologic Anatomy, Confirmed Diagnosis Percentage, /2011-2015/**



**Indicators of Surgery Operations, /2011-2015/**



## INPATIENT MORBIDITY PER 10000 POPULATION, 2015

| №  | Aimags and city        | Total          | out of them  |                 |              |                     |                      |                | out of them  |                             |                                  |                               |                            |                                    | out of them                  |   | Diseases of the blood and blood forming the organs and certain disorders involving the immune mechanism | Endocrine, nutritional and metabolic diseases | Insulin-dependent diabetes mellitus | Mental and behavioural disorders | Diseases of the nervous system and sense organs | Diseases of the eye and adnexa | Diseases of the ear and mastoid process | Diseases of the circulatory system |
|----|------------------------|----------------|--------------|-----------------|--------------|---------------------|----------------------|----------------|--------------|-----------------------------|----------------------------------|-------------------------------|----------------------------|------------------------------------|------------------------------|---|---|---|-------------------------------------|----------------------------------|---|--------------------------------|---|------------------------------------|
|    |                        |                | Tuberculosis | Viral hepatitis | Brucellosis  | Congenital syphilis | Gonococcal infection | Trichomoniasis | Neoplasms    | Malignant neoplasm of liver | Malignant neoplasm of oesophagus | Malignant neoplasm of stomach | Malignant neoplasm of lung | Malignant neoplasm of cervix uteri | Malignant neoplasm of breast | Diseases of the blood and blood forming the organs and certain disorders involving the immune mechanism |   |   |                                     |                                  |   |                                |   |                                    |
| 1  | Arkhangai              | 2052.66        | 61.14        | 4.65            | 26.25        | 0.11                | 0.00                 | 0.00           | 0.00         | 22.68                       | 8.97                             | 1.62                          | 2.81                       | 2.38                               | 0.76                         | 0.22  | 5.83  | 20.52   | 5.94                                | 23.01                            | 160.41  | 8.53                           | 10.80                                   | 385.32                             |
| 2  | Bayan-Ulgii            | 2793.39        | 44.95        | 3.48            | 2.97         | 0.00                | 0.00                 | 0.00           | 48.22        | 9.21                        | 5.73                             | 6.55                          | 3.17                       | 0.72                               | 1.33                         | 32.97   | 32.87   | 9.83  | 36.04                               | 227.09                           | 25.80   | 12.90                          | 420.70                                  |                                    |
| 3  | Bayankhongor           | 2280.87        | 43.36        | 4.55            | 6.11         | 0.36                | 0.00                 | 0.00           | 28.11        | 7.91                        | 1.92                             | 3.11                          | 3.47                       | 1.44                               | 0.72                         | 8.02  | 27.07   | 8.26  | 8.14                                | 169.48                           | 57.01   | 8.62                           | 395.38                                  |                                    |
| 4  | Bulgan                 | 1931.32        | 40.16        | 3.65            | 11.78        | 0.17                | 0.17                 | 0.00           | 26.89        | 10.62                       | 0.33                             | 2.99                          | 3.65                       | 2.16                               | 0.66                         | 5.31  | 37.18   | 18.92   | 25.39                               | 223.55                           | 2.99  | 6.47                           | 376.41                                  |                                    |
| 5  | Govi-Altai             | 2562.15        | 90.13        | 4.07            | 46.75        | 0.00                | 0.00                 | 0.00           | 39.49        | 10.62                       | 1.24                             | 4.78                          | 2.48                       | 0.53                               | 1.77                         | 14.70   | 34.35   | 20.01   | 29.40                               | 272.52                           | 6.55  | 11.86                          | 369.74                                  |                                    |
| 6  | Gobi-Sumber            | 2804.17        | 110.50       | 31.31           | 30.08        | 1.23                | 0.00                 | 0.00           | 27.01        | 10.44                       | 0.61                             | 0.61                          | 2.46                       | 1.84                               | 0.61                         | 7.98  | 33.76   | 23.33   | 3.68                                | 121.55                           | 2.46  | 23.94                          | 387.35                                  |                                    |
| 7  | Darkhan-Uul            | 2818.12        | 94.48        | 23.99           | 17.12        | 15.53               | 0.00                 | 0.00           | 30.76        | 6.27                        | 1.00                             | 4.48                          | 1.39                       | 1.89                               | 1.00                         | 5.28  | 71.28   | 52.67   | 91.59                               | 118.48                           | 6.17  | 33.55                          | 530.65                                  |                                    |
| 8  | Dornogovi              | 2103.89        | 62.13        | 2.94            | 15.96        | 0.00                | 0.31                 | 0.00           | 24.79        | 11.16                       | 0.46                             | 2.01                          | 2.01                       | 0.15                               | 0.15                         | 4.34  | 18.75   | 11.47   | 13.02                               | 192.45                           | 5.11  | 2.32                           | 245.44                                  |                                    |
| 9  | Dornod                 | 2238.15        | 124.09       | 2.90            | 60.79        | 0.53                | 0.13                 | 0.00           | 46.42        | 15.69                       | 1.71                             | 3.03                          | 1.05                       | 3.56                               | 1.58                         | 7.38  | 35.47   | 13.58   | 79.78                               | 102.85                           | 42.33   | 12.40                          | 321.49                                  |                                    |
| 10 | Dundgovi               | 2271.01        | 59.25        | 7.21            | 7.43         | 0.00                | 0.00                 | 0.00           | 22.75        | 9.69                        | 0.45                             | 2.03                          | 0.90                       | 2.03                               | 0.00                         | 8.34  | 26.58   | 15.54   | 9.91                                | 109.03                           | 10.36   | 6.53                           | 354.58                                  |                                    |
| 11 | Zavkhan                | 2339.31        | 74.04        | 4.73            | 3.15         | 42.97               | 0.14                 | 0.00           | 44.83        | 13.46                       | 1.72                             | 9.45                          | 2.15                       | 1.72                               | 0.29                         | 10.17   | 24.35   | 12.32   | 10.31                               | 305.77                           | 4.87  | 7.88                           | 362.20                                  |                                    |
| 12 | Orkhon                 | 2073.87        | 114.37       | 17.32           | 10.04        | 31.26               | 0.72                 | 0.10           | 36.18        | 12.30                       | 0.41                             | 4.10                          | 1.02                       | 0.92                               | 0.72                         | 5.84  | 37.61   | 27.98   | 69.69                               | 79.22                            | 4.00  | 10.66                          | 337.07                                  |                                    |
| 13 | Uvurkhangai            | 2076.19        | 58.75        | 5.33            | 8.17         | 11.63               | 0.00                 | 0.00           | 40.12        | 8.25                        | 1.78                             | 4.79                          | 1.69                       | 0.98                               | 0.89                         | 8.70  | 28.40   | 9.67  | 26.98                               | 84.94                            | 8.70  | 9.94                           | 336.11                                  |                                    |
| 14 | Umnugovi               | 2008.92        | 66.26        | 3.13            | 5.77         | 4.61                | 0.00                 | 0.00           | 17.47        | 5.93                        | 0.33                             | 1.15                          | 1.48                       | 0.33                               | 0.00                         | 8.57  | 25.71   | 14.17   | 32.80                               | 193.82                           | 5.27  | 5.44                           | 273.10                                  |                                    |
| 15 | Sukhbaatar             | 2167.67        | 115.24       | 18.20           | 4.64         | 57.70               | 0.17                 | 0.00           | 27.99        | 10.82                       | 0.17                             | 2.06                          | 0.52                       | 0.17                               | 0.69                         | 9.96  | 29.02   | 14.77   | 32.29                               | 214.67                           | 7.38  | 9.62                           | 313.42                                  |                                    |
| 16 | Selenge                | 1935.59        | 54.40        | 18.73           | 2.73         | 6.02                | 0.00                 | 0.75           | 27.01        | 6.96                        | 0.85                             | 2.82                          | 1.32                       | 1.41                               | 0.56                         | 5.27  | 25.98   | 17.79   | 32.47                               | 116.52                           | 3.76  | 23.53                          | 315.10                                  |                                    |
| 17 | Tuv                    | 1615.48        | 69.80        | 18.50           | 9.75         | 10.41               | 0.00                 | 0.00           | 25.48        | 7.53                        | 1.00                             | 1.77                          | 1.88                       | 1.66                               | 0.44                         | 4.54  | 24.04   | 15.73   | 7.42                                | 136.49                           | 6.31  | 4.32                           | 298.57                                  |                                    |
| 18 | Uvs                    | 2401.07        | 102.07       | 20.06           | 5.49         | 24.27               | 0.00                 | 0.64           | 48.67        | 14.18                       | 5.49                             | 11.50                         | 1.66                       | 1.28                               | 1.15                         | 5.88  | 17.76   | 10.99   | 28.62                               | 195.97                           | 14.82   | 10.35                          | 382.74                                  |                                    |
| 19 | Khovd                  | 2773.76        | 67.64        | 11.88           | 3.76         | 9.70                | 0.12                 | 0.00           | 58.55        | 12.24                       | 3.64                             | 9.70                          | 3.39                       | 0.97                               | 1.94                         | 9.33  | 29.70   | 13.94   | 36.12                               | 176.61                           | 29.82   | 27.03                          | 444.62                                  |                                    |
| 20 | Khuvsgul               | 2149.31        | 60.82        | 9.28            | 23.45        | 0.00                | 0.00                 | 0.00           | 41.54        | 9.05                        | 0.79                             | 4.72                          | 6.14                       | 3.30                               | 2.52                         | 13.06   | 42.56   | 13.14   | 34.78                               | 144.37                           | 6.77  | 8.50                           | 430.05                                  |                                    |
| 21 | Khentii                | 2147.95        | 146.15       | 29.76           | 7.79         | 41.86               | 0.00                 | 0.00           | 32.96        | 12.93                       | 0.28                             | 2.22                          | 2.78                       | 1.11                               | 1.39                         | 4.17  | 17.80   | 7.37  | 20.30                               | 182.03                           | 6.81  | 26.98                          | 261.16                                  |                                    |
| 22 | <b>Aimags average</b>  | <b>2241.97</b> | <b>76.55</b> | <b>13.68</b>    | <b>21.78</b> | <b>0.13</b>         | <b>0.11</b>          | <b>0.01</b>    | <b>35.26</b> | <b>9.99</b>                 | <b>1.62</b>                      | <b>4.39</b>                   | <b>2.35</b>                | <b>1.42</b>                        | <b>0.97</b>                  | <b>9.08</b>   | <b>31.34</b>  | <b>16.10</b>                                  | <b>33.85</b>                        | <b>162.66</b>                    | <b>13.16</b>                                    | <b>13.19</b>                   | <b>364.42</b>                           |                                    |
| 23 | Ulaanbaatar            | 3012.23        | 106.78       | 16.45           | 4.82         | 5.18                | 0.09                 | 0.01           | 108.47       | 15.83                       | 2.44                             | 11.81                         | 3.73                       | 4.36                               | 10.62                        | 11.08   | 53.50   | 35.11   | 59.82                               | 213.35                           | 41.37   | 17.19                          | 406.65                                  |                                    |
| 24 | <b>Country average</b> | <b>2593.05</b> | <b>90.33</b> | <b>14.94</b>    | <b>5.44</b>  | <b>14.21</b>        | <b>0.11</b>          | <b>0.06</b>    | <b>68.63</b> | <b>12.65</b>                | <b>2.00</b>                      | <b>7.77</b>                   | <b>2.98</b>                | <b>2.76</b>                        | <b>5.37</b>                  | <b>9.99</b>   | <b>41.44</b>  | <b>24.76</b>                                  | <b>45.55</b>                        | <b>185.77</b>                    | <b>26.02</b>                                    | <b>15.02</b>                   | <b>383.67</b>                           |                                    |

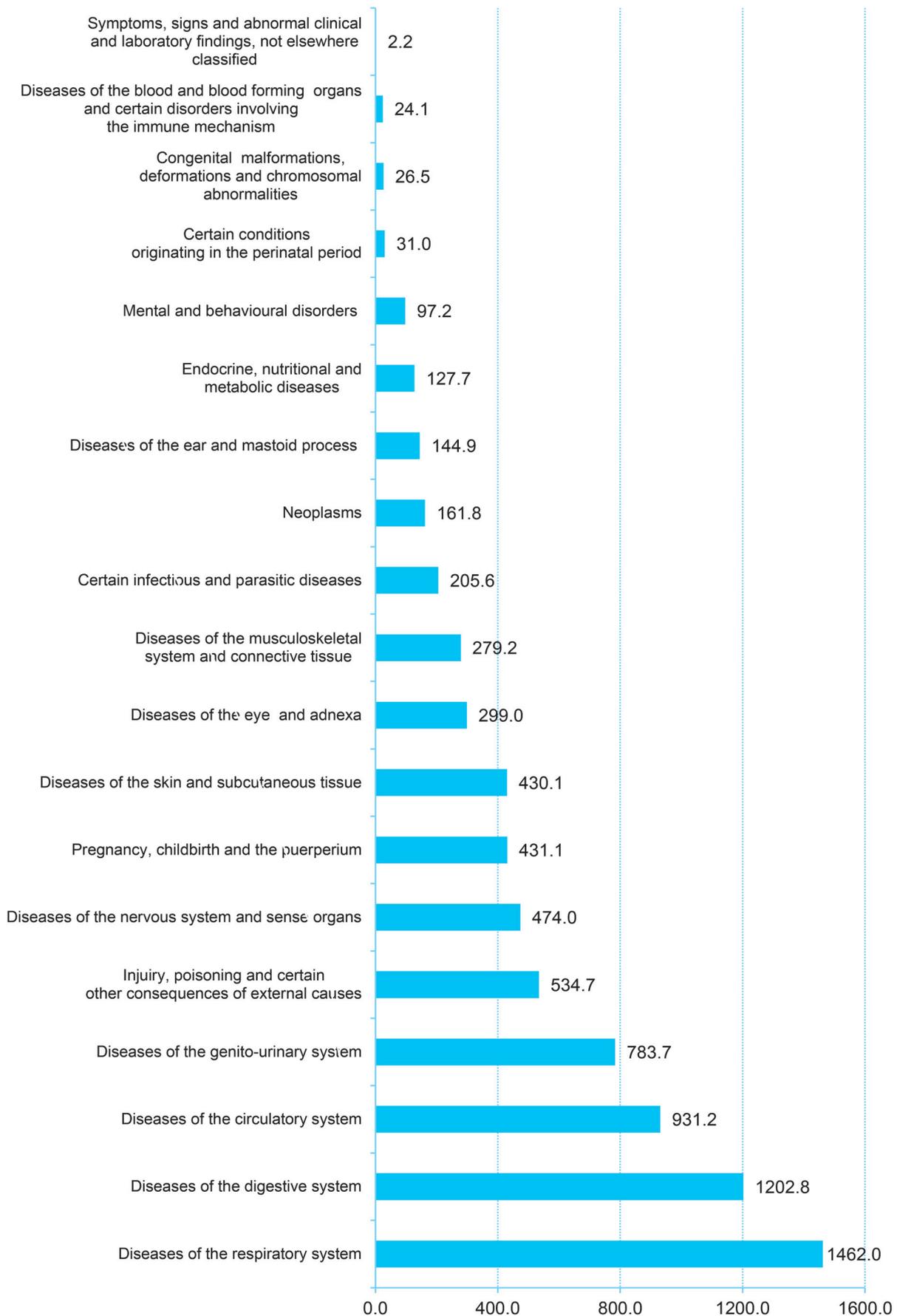


## OUTPATIENT MORBIDITY (PER 10 000 POPULATION), 2015

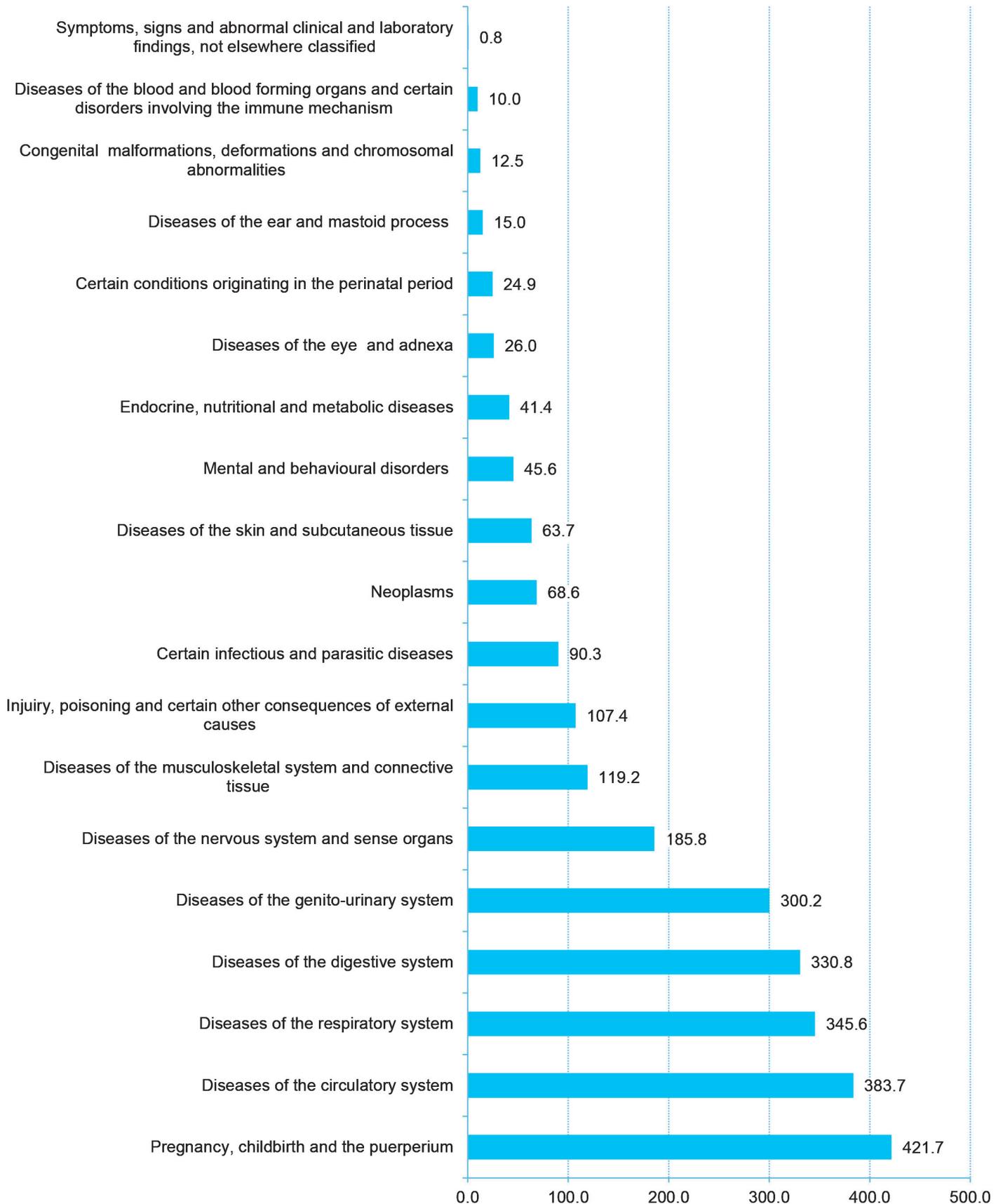
| №  | Aimags and city | Total   | out of them                               |       |      |       |       |           |       |        |       |      | out of them  |      |       |       |       | out of them                                   |       |                                     |        |                                  |        |   |        |                                |        |   |  |                                    |  |  |  |                       |  |                          |
|----|-----------------|---------|---|-------|------|-------|-------|-----------|-------|--------|-------|------|--|------|-------|-------|-------|---|-------|-------------------------------------|--------|----------------------------------|--------|---|--------|--------------------------------|--------|---|--|------------------------------------|--|--|--|-----------------------|--|--------------------------|
|    |                 |         | Certain infectious and parasitic diseases |       |      |       |       | Neoplasms |       |        |       |      | Diseases of blood and blood forming organs and certain disorders involving the immune mechanisms |      |       |       |       | Endocrine, nutritional and metabolic diseases |       | Insulin-dependent diabetes mellitus |        | Mental and behavioural disorders |        | Diseases of the nervous system and sense organs |        | Diseases of the eye and adnexa |        | Diseases of the ear and mastoid process |  | Diseases of the circulatory system |  | Acute rheumatic fever and chronic rheumatic heart diseases |  | Hypertensive diseases |  | Ischaemic heart diseases |
| A  | B               | 1       | 2   | 3     | 4    | 5     | 6     | 7         | 8     | 9      | 10    | 11   | 12   | 13   | 14    | 15    | 16    | 17  | 18    | 19                                  | 20     | 21                               | 22     | 23  | 24     | 25                             | 26     | 27                                      |  |                                    |  |  |  |                       |  |                          |
| 1  | Arkhangai       | 7977.10 | 61.57                                     | 6.37  | 3.24 | 6.05  | 14.48 | 0.97      | 11.77 | 11.56  | 3.56  | 0.65 | 0.76   | 0.65 | 0.43  | 0.32  | 76.70 | 232.47  | 39.10 | 142.92                              | 472.17 | 190.34                           | 220.37 | 1307.73   | 105.54 | 784.03                         | 282.59 | 17.39                                   |  |                                    |  |  |  |                       |  |                          |
| 2  | Bayan-Ulgii     | 4711.78 | 62.86                                     | 4.71  | 1.02 | 0.20  | 3.17  | 14.64     | 2.76  | 39.73  | 6.04  | 1.13 | 1.54   | 1.13 | 0.61  | 0.00  | 50.17 | 52.11   | 13.82 | 56.62                               | 505.78 | 46.69                            | 60.10  | 648.31  | 23.86  | 415.89                         | 60.41  | 16.79                                   |  |                                    |  |  |  |                       |  |                          |
| 3  | Bayankhongor    | 9644.51 | 374.18                                    | 6.59  | 2.64 | 0.72  | 32.34 | 30.54     | 43.12 | 20.60  | 5.63  | 0.12 | 0.00   | 0.12 | 0.00  | 0.00  | 20.00 | 122.89  | 29.94 | 86.00                               | 707.63 | 652.29                           | 310.46 | 1256.92   | 114.27 | 651.69                         | 203.14 | 18.80                                   |  |                                    |  |  |  |                       |  |                          |
| 4  | Bulgan          | 8042.12 | 67.71                                     | 9.96  | 1.33 | 0.00  | 11.45 | 9.96      | 14.94 | 24.06  | 6.97  | 1.83 | 3.49   | 1.83 | 1.49  | 0.83  | 17.76 | 89.79   | 37.18 | 33.69                               | 662.03 | 269.86                           | 122.48 | 1632.09   | 69.21  | 1017.53                        | 343.71 | 13.44                                   |  |                                    |  |  |  |                       |  |                          |
| 5  | Govi-Altai      | 5646.52 | 73.84                                     | 4.78  | 1.77 | 0.35  | 23.73 | 11.33     | 3.72  | 39.49  | 11.16 | 2.66 | 4.07   | 2.66 | 0.71  | 1.95  | 24.61 | 57.73   | 29.40 | 45.51                               | 513.00 | 72.60                            | 119.71 | 793.49  | 64.99  | 320.51                         | 251.63 | 13.10                                   |  |                                    |  |  |  |                       |  |                          |
| 6  | Говьсүмбэр      | 6414.98 | 70.60                                     | 9.82  | 5.52 | 0.00  | 30.08 | 2.46      | 0.61  | 17.19  | 10.44 | 1.23 | 0.00   | 1.23 | 0.61  | 0.61  | 12.89 | 72.44   | 52.18 | 14.73                               | 239.41 | 87.78                            | 79.80  | 779.01  | 75.51  | 326.58                         | 244.32 | 6.14                                    |  |                                    |  |  |  |                       |  |                          |
| 7  | Darkhan-Uul     | 7998.47 | 76.96                                     | 22.10 | 3.09 | 0.10  | 15.03 | 7.07      | 5.97  | 44.10  | 8.26  | 2.19 | 4.08   | 2.19 | 1.39  | 0.90  | 28.37 | 117.88  | 78.85 | 153.32                              | 263.13 | 615.77                           | 218.23 | 1095.65   | 72.98  | 540.80                         | 145.85 | 20.71                                   |  |                                    |  |  |  |                       |  |                          |
| 8  | Дорногови       | 7821.03 | 136.82                                    | 13.48 | 1.86 | 0.15  | 27.43 | 19.37     | 9.14  | 24.84  | 9.45  | 2.01 | 1.70   | 2.01 | 0.15  | 0.15  | 8.52  | 65.08   | 36.72 | 69.42                               | 462.82 | 192.76                           | 109.55 | 846.17  | 61.36  | 373.43                         | 234.28 | 10.38                                   |  |                                    |  |  |  |                       |  |                          |
| 9  | Дорнод          | 8009.89 | 354.85                                    | 20.31 | 2.77 | 19.38 | 63.16 | 103.51    | 56.44 | 48.92  | 5.67  | 0.53 | 0.40   | 0.53 | 0.26  | 0.13  | 22.29 | 76.61   | 30.72 | 198.33                              | 202.28 | 500.03                           | 229.18 | 581.26  | 54.20  | 246.59                         | 188.04 | 8.70                                    |  |                                    |  |  |  |                       |  |                          |
| 10 | Dundgovi        | 5392.21 | 115.34                                    | 3.60  | 1.80 | 0.23  | 14.64 | 4.28      | 18.47 | 24.10  | 11.94 | 1.58 | 1.13   | 1.58 | 1.80  | 0.90  | 10.59 | 69.84   | 33.57 | 32.21                               | 266.50 | 192.16                           | 96.19  | 757.38  | 89.89  | 342.64                         | 149.13 | 16.22                                   |  |                                    |  |  |  |                       |  |                          |
| 11 | Zavkhan         | 5559.12 | 72.32                                     | 5.16  | 2.29 | 0.14  | 8.59  | 12.75     | 2.86  | 24.92  | 8.31  | 1.29 | 2.72   | 1.29 | 0.86  | 0.14  | 20.91 | 66.31   | 36.79 | 88.85                               | 516.15 | 408.17                           | 69.89  | 683.15  | 21.63  | 322.38                         | 206.09 | 17.76                                   |  |                                    |  |  |  |                       |  |                          |
| 12 | Орхон           | 5813.72 | 113.25                                    | 12.40 | 2.87 | 0.41  | 22.85 | 2.25      | 8.10  | 14.25  | 3.79  | 0.72 | 2.25   | 0.72 | 0.31  | 0.61  | 27.98 | 66.31   | 36.79 | 88.85                               | 163.46 | 79.63                            | 141.94 | 632.23  | 22.55  | 319.75                         | 163.26 | 12.40                                   |  |                                    |  |  |  |                       |  |                          |
| 13 | Uvurkhangai     | 6691.52 | 77.30                                     | 5.68  | 1.07 | 0.53  | 14.56 | 4.62      | 8.88  | 43.49  | 3.64  | 0.89 | 0.98   | 0.89 | 0.53  | 0.18  | 30.09 | 99.14   | 39.32 | 69.23                               | 354.83 | 300.69                           | 145.20 | 977.17  | 138.19 | 507.58                         | 168.01 | 20.77                                   |  |                                    |  |  |  |                       |  |                          |
| 14 | Umnugovi        | 9652.82 | 163.33                                    | 4.94  | 4.12 | 0.16  | 13.68 | 4.78      | 4.29  | 25.55  | 7.58  | 1.98 | 1.15   | 1.98 | 1.32  | 0.16  | 28.02 | 109.60  | 58.84 | 97.24                               | 758.97 | 327.81                           | 346.27 | 1199.19   | 118.50 | 655.46                         | 268.48 | 9.56                                    |  |                                    |  |  |  |                       |  |                          |
| 15 | Sukhbaatar      | 7832.59 | 135.33                                    | 13.91 | 3.26 | 3.78  | 31.77 | 23.18     | 11.68 | 20.44  | 8.93  | 0.17 | 1.03   | 0.17 | 0.17  | 0.34  | 21.30 | 68.01   | 27.82 | 106.99                              | 701.20 | 272.55                           | 171.91 | 974.61  | 44.14  | 600.05                         | 122.28 | 9.27                                    |  |                                    |  |  |  |                       |  |                          |
| 16 | Selenge         | 4543.73 | 83.67                                     | 18.16 | 0.85 | 0.28  | 19.39 | 15.72     | 11.67 | 19.48  | 5.18  | 1.51 | 2.16   | 1.51 | 0.85  | 0.00  | 15.06 | 82.54   | 59.39 | 49.50                               | 271.62 | 98.82                            | 83.01  | 776.17  | 58.92  | 422.96                         | 182.49 | 14.12                                   |  |                                    |  |  |  |                       |  |                          |
| 17 | Tuv             | 8298.55 | 134.27                                    | 12.63 | 1.11 | 0.89  | 13.96 | 5.65      | 6.87  | 38.22  | 5.87  | 1.11 | 1.99   | 1.11 | 0.00  | 0.22  | 11.08 | 100.37  | 37.67 | 36.12                               | 447.02 | 485.02                           | 168.51 | 1113.40   | 129.07 | 556.48                         | 201.19 | 12.30                                   |  |                                    |  |  |  |                       |  |                          |
| 18 | Uvs             | 7439.05 | 105.01                                    | 8.18  | 3.32 | 0.51  | 12.26 | 15.97     | 2.43  | 34.88  | 10.35 | 1.02 | 4.34   | 1.02 | 0.77  | 0.26  | 33.60 | 61.96   | 21.97 | 40.50                               | 529.53 | 394.88                           | 100.54 | 966.69  | 125.32 | 491.07                         | 220.37 | 10.22                                   |  |                                    |  |  |  |                       |  |                          |
| 19 | Khovd           | 5566.80 | 99.88                                     | 4.36  | 1.58 | 0.00  | 10.91 | 3.88      | 13.94 | 25.21  | 6.42  | 1.33 | 3.52   | 1.33 | 0.48  | 0.36  | 17.45 | 63.88   | 24.61 | 43.88                               | 344.61 | 123.52                           | 168.49 | 851.54  | 104.00 | 371.40                         | 204.37 | 19.52                                   |  |                                    |  |  |  |                       |  |                          |
| 20 | Khuvsgul        | 5542.36 | 155.78                                    | 8.97  | 2.68 | 0.08  | 25.18 | 43.19     | 12.59 | 22.27  | 5.82  | 1.57 | 2.68   | 1.57 | 0.31  | 0.08  | 33.44 | 70.26   | 17.94 | 67.03                               | 490.32 | 260.74                           | 83.63  | 961.83  | 49.17  | 497.64                         | 323.60 | 12.43                                   |  |                                    |  |  |  |                       |  |                          |
| 21 | Khentii         | 6016.51 | 136.84                                    | 19.61 | 2.22 | 3.06  | 21.00 | 9.32      | 10.85 | 16.69  | 5.15  | 0.83 | 1.39   | 0.83 | 0.97  | 0.42  | 9.73  | 40.61   | 17.10 | 66.75                               | 390.35 | 87.75                            | 196.22 | 891.11  | 47.70  | 565.70                         | 176.19 | 13.07                                   |  |                                    |  |  |  |                       |  |                          |
| 22 | Аймгийн дундаж  | 6816.82 | 127.96                                    | 10.54 | 2.24 | 1.75  | 19.81 | 17.32     | 12.68 | 28.27  | 6.61  | 1.23 | 2.06   | 1.23 | 0.63  | 0.35  | 26.74 | 87.02   | 35.10 | 77.31                               | 435.11 | 279.20                           | 154.76 | 942.03  | 75.96  | 496.87                         | 204.40 | 14.60                                   |  |                                    |  |  |  |                       |  |                          |
| 23 | Улаанбаатар     | 8644.05 | 298.30                                    | 18.37 | 3.79 | 0.12  | 26.29 | 15.38     | 14.13 | 32.12  | 68.42 | 9.26 | 36.12  | 9.26 | 38.13 | 25.83 | 20.90 | 176.29  | 97.99 | 121.00                              | 520.45 | 322.63                           | 133.09 | 918.17  | 53.38  | 403.70                         | 204.41 | 17.10                                   |  |                                    |  |  |  |                       |  |                          |
| 24 | Улсын дундаж    | 7649.50 | 205.60                                    | 14.11 | 2.95 | 1.01  | 22.76 | 16.44     | 13.34 | 161.75 | 34.78 | 4.89 | 17.58  | 4.89 | 17.72 | 11.96 | 24.07 | 127.71  | 63.76 | 97.22                               | 474.01 | 299.00                           | 144.88 | 931.16  | 65.67  | 454.40                         | 204.40 | 15.74                                   |  |                                    |  |  |  |                       |  |                          |



## Outpatient Morbidity per 10000 population, 2015



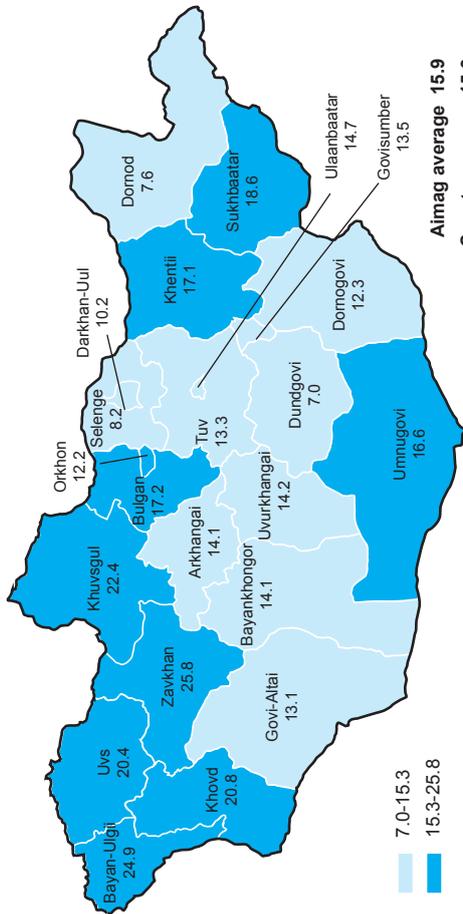
## Inpatient Morbidity per 10000 population, 2015



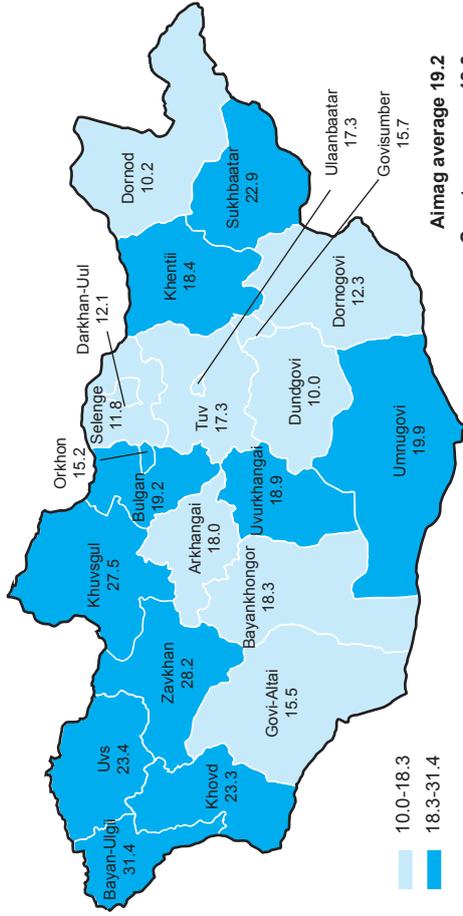


**QUALITY AND ACCESSIBILITY INDICATORS OF MEDICAL CARE AND SERVICES**

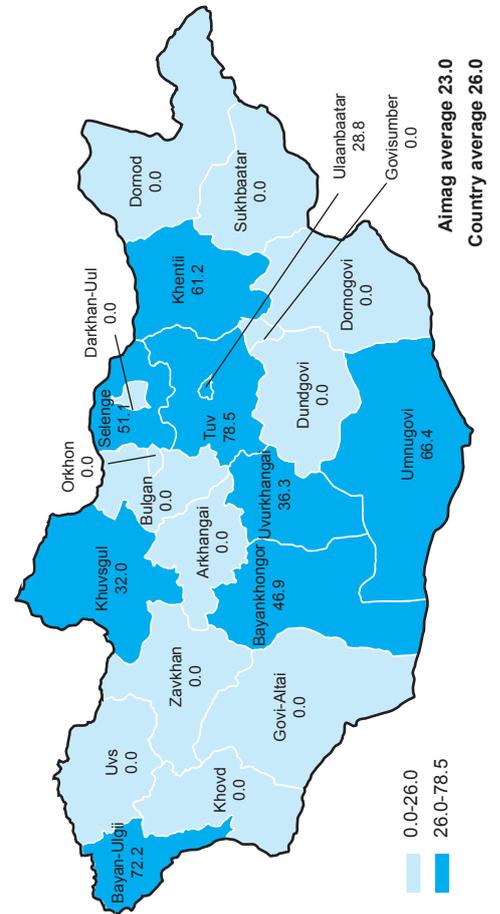
**Infant mortality rate per 1000 live births**



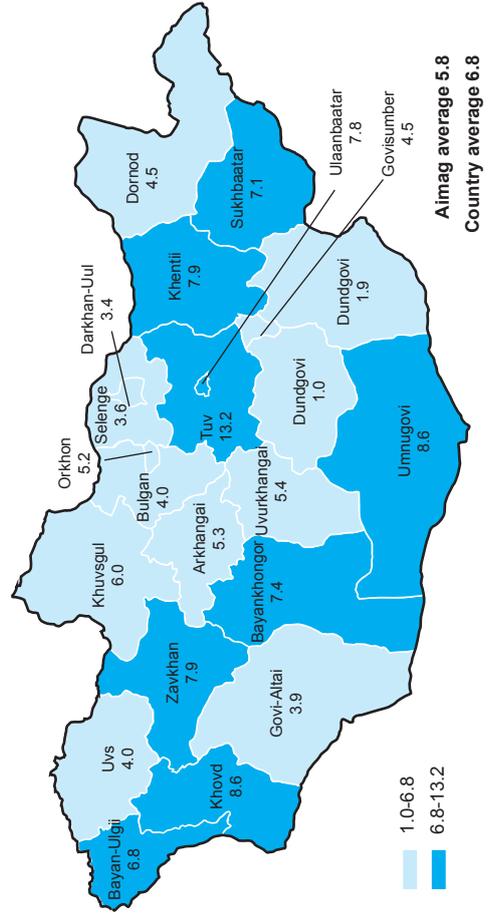
**Under five mortality rate per 1000 live births**



**Maternal mortality per 100 000 population**

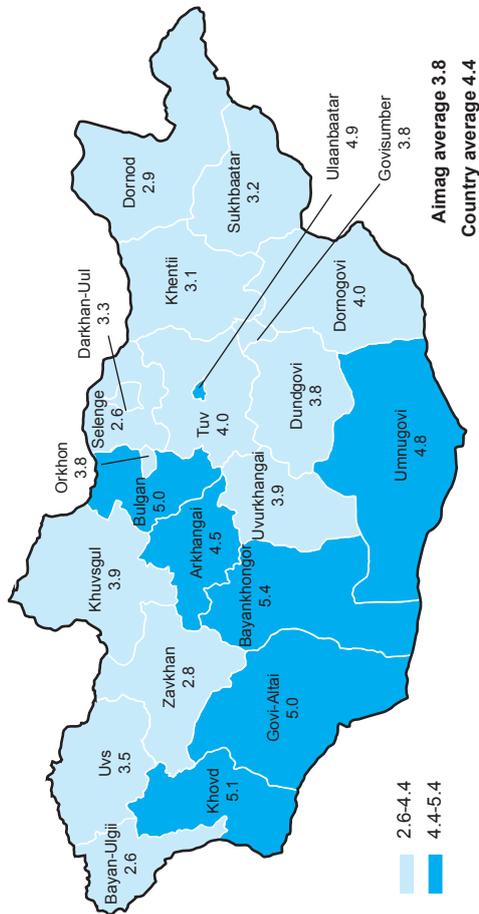


**Still births rate /per 1000 births/**

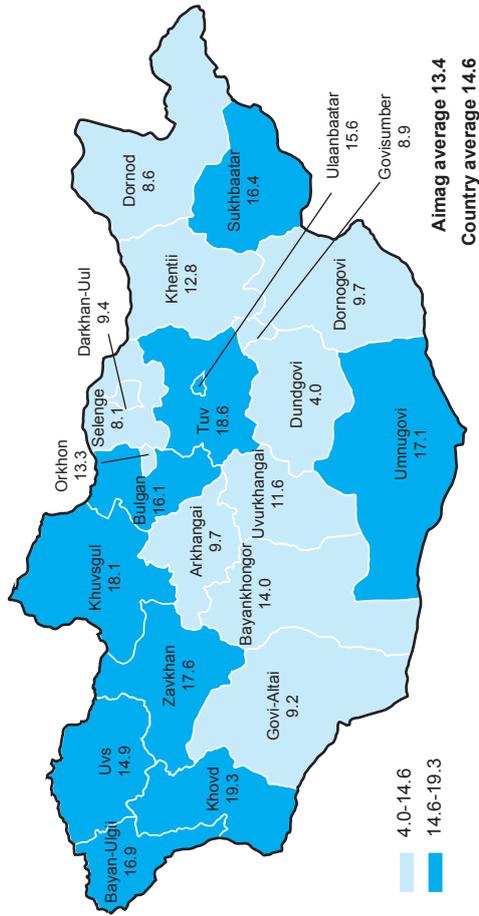


# QUALITY AND ACCESSIBILITY INDICATORS OF MEDICAL CARE AND SERVICES

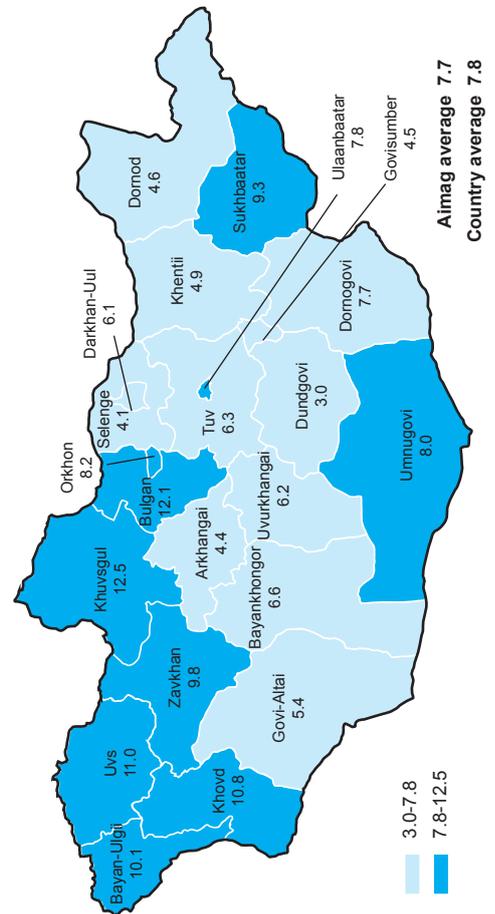
Percent of newborn infants weighing at least 2500 g at birth



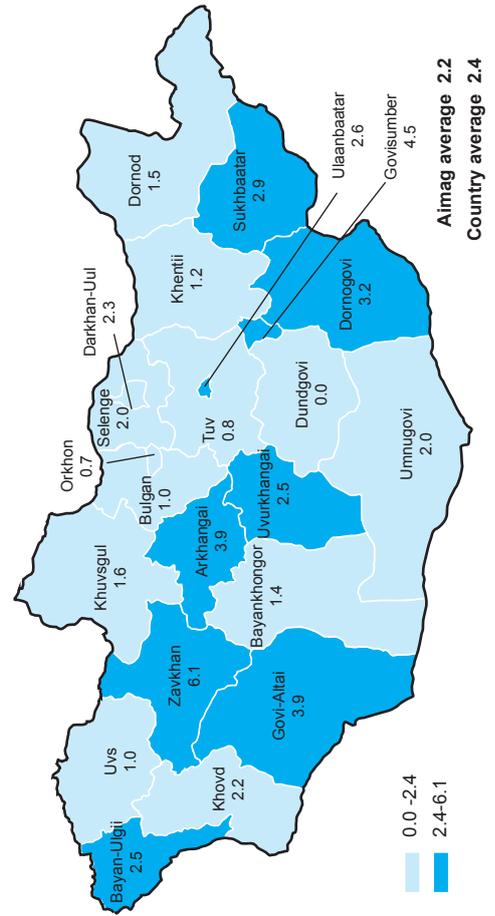
Perinatal mortality rate /per 1000 births/



Early neonatal mortality rate /per 1000 live births/

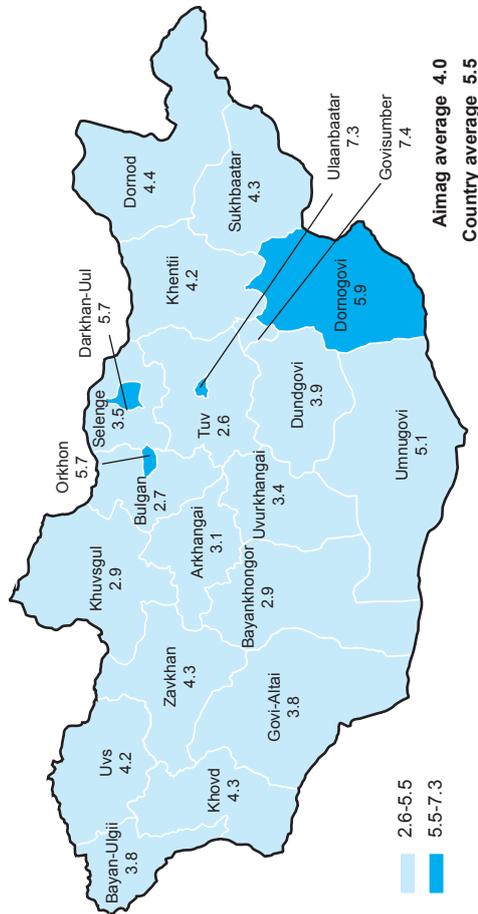


Post neonatal mortality rate /per 1000 live births/

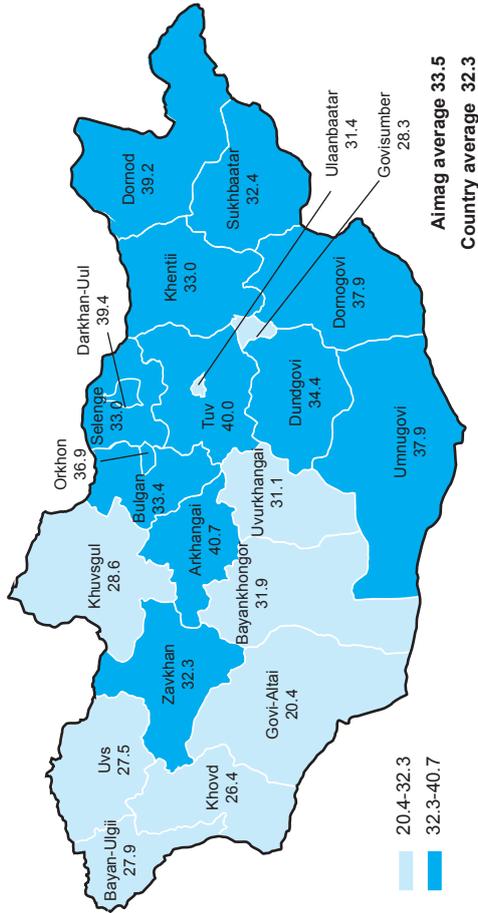


**QUALITY AND ACCESSIBILITY INDICATORS OF MEDICAL CARE AND SERVICES**

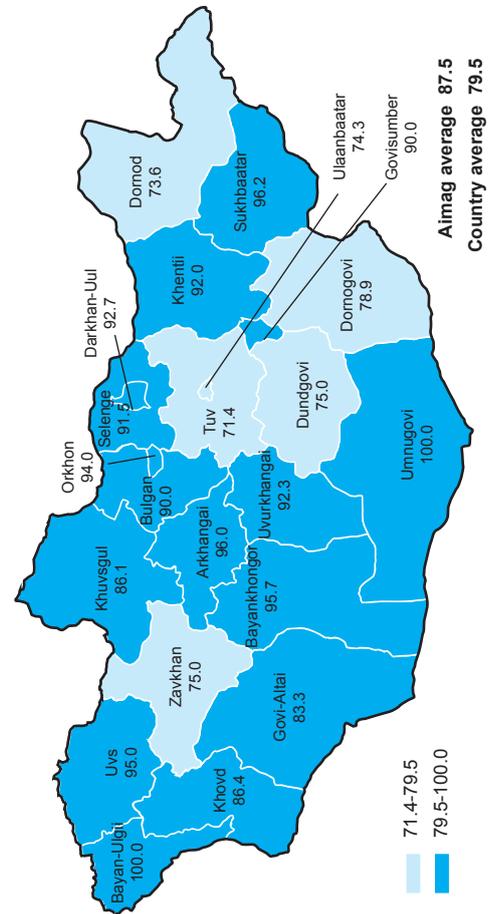
**Average outpatient visits per person per year**



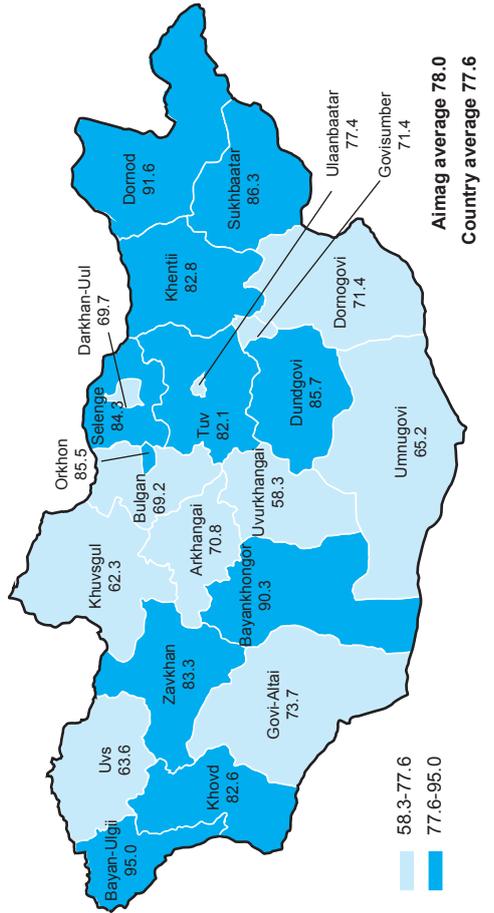
**Percentage of preventive medical check-up**



**Percentage of TB cases cured under DOTS**

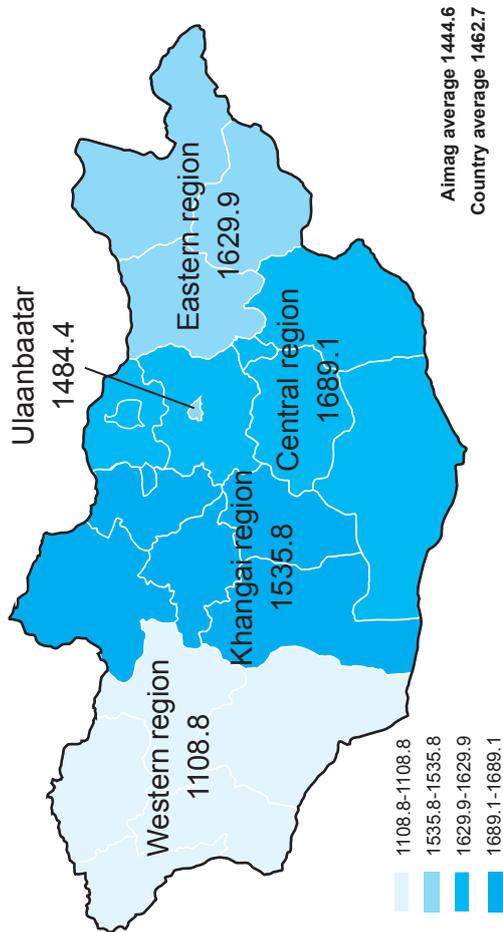


**Percentage of TB cases detected under DOTS**

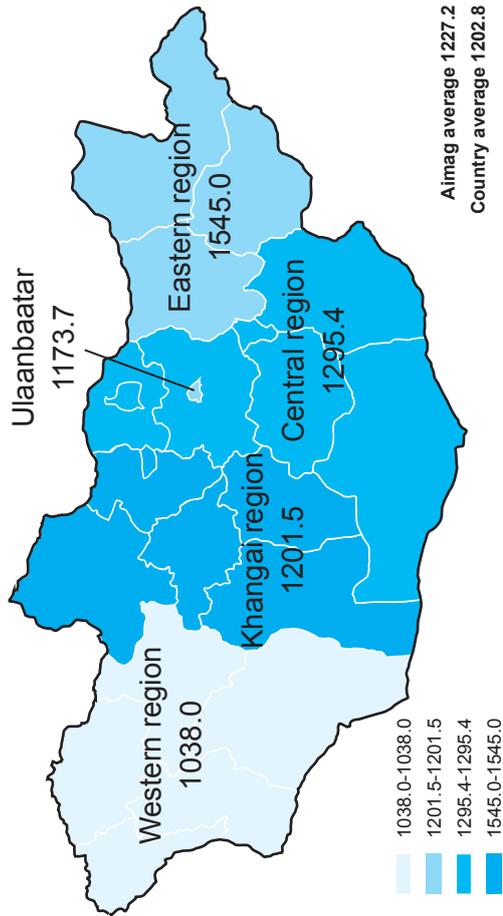


# LEADING CAUSES OF THE MORBIDITY, PER 10 000 POPULATION

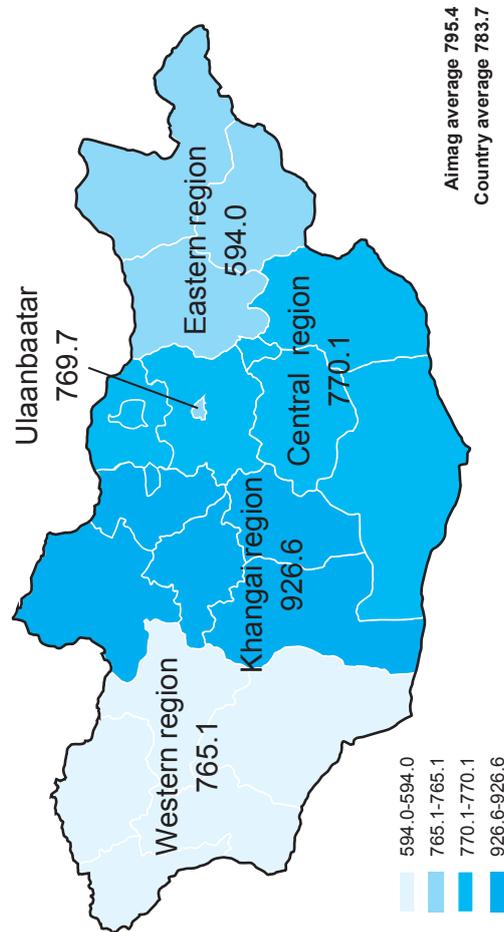
Diseases of the respiratory system



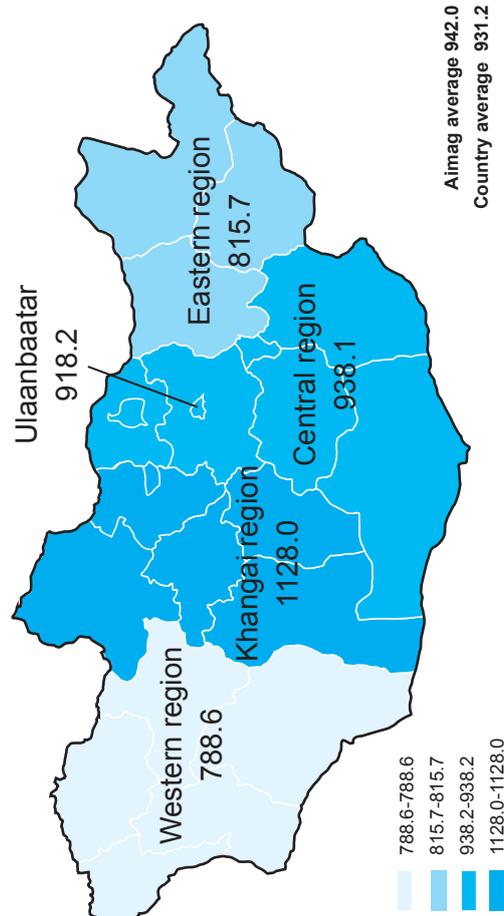
Diseases of the digestive system



Diseases of the genito-urinary system

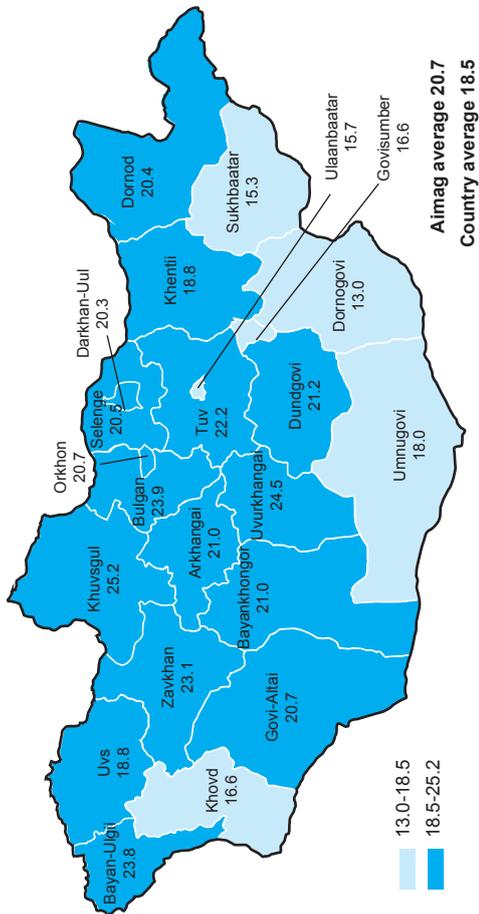


Diseases of the circulatory system

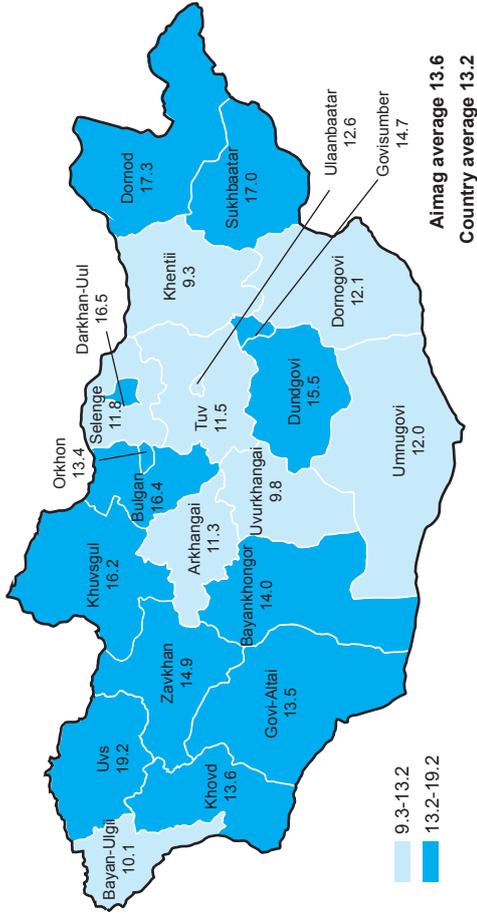


**LEADING CAUSES OF THE MORTALITY, PER 10 000 POPULATION**

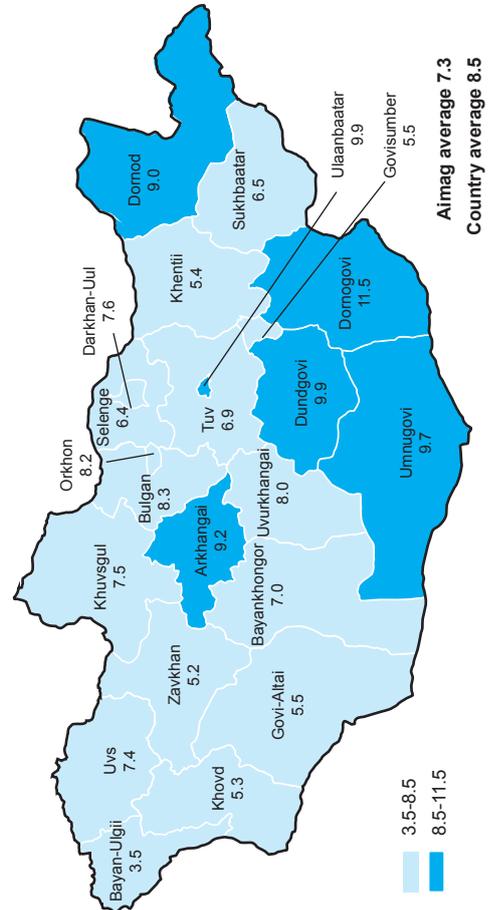
**Deaths of the circulatory system**



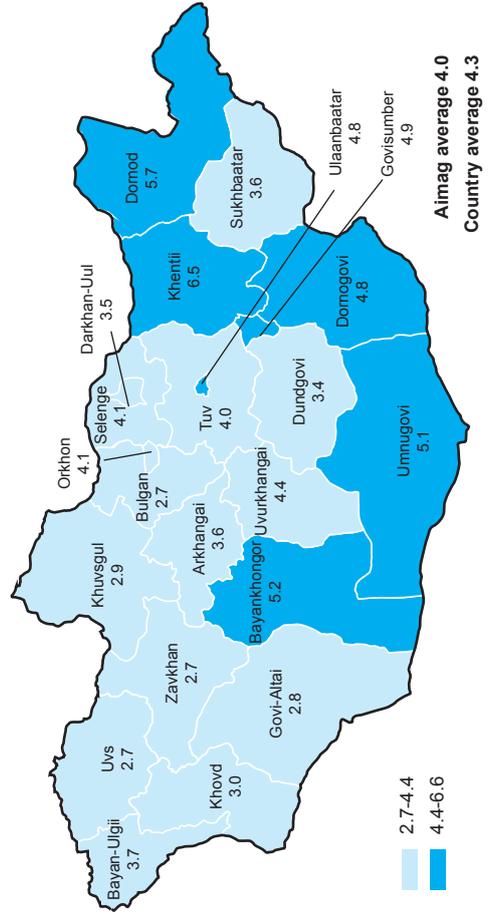
**Deaths of the Neoplasm**



**Deaths Injuriy-poisoning and certain other consequences of external causes**



**Deaths of the digestive system**

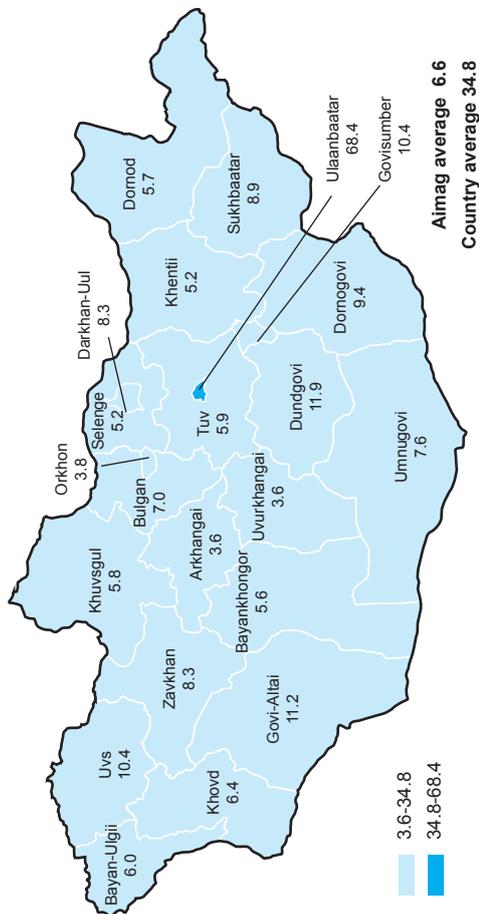




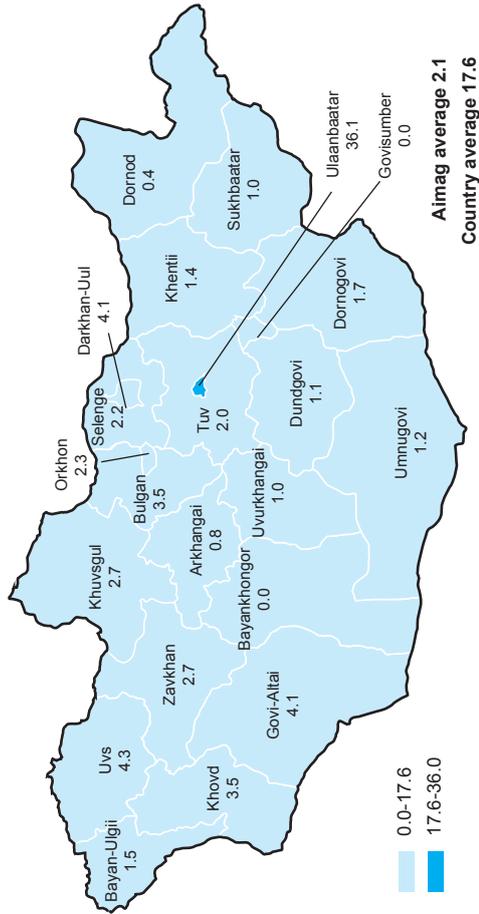


# INCIDENCE OF MALIGNANT NEOPLASMS, PER 10 000 POPULATION

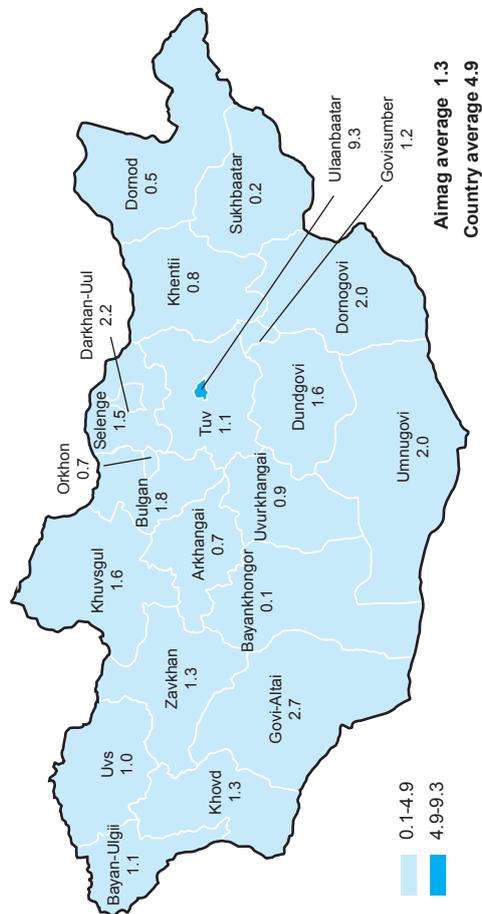
### Incidence of Liver cancer



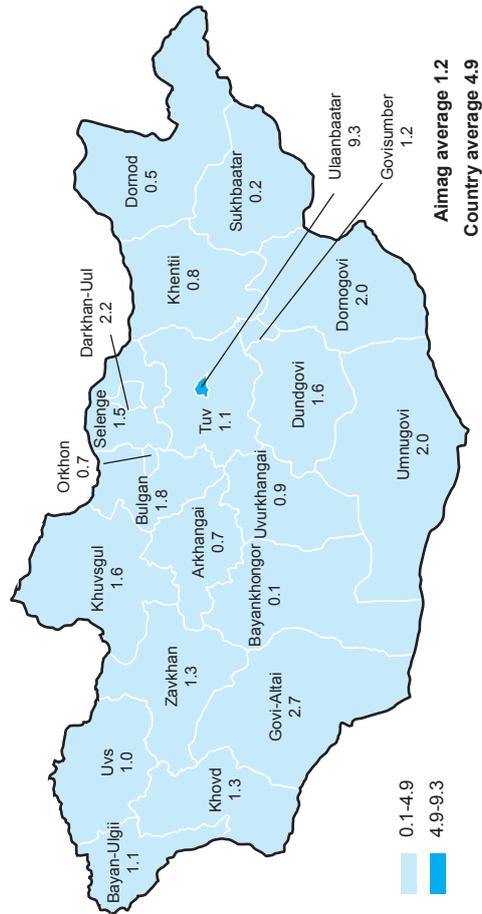
### Incidence of Stomach cancer



### Incidence of Oesophagus cancer

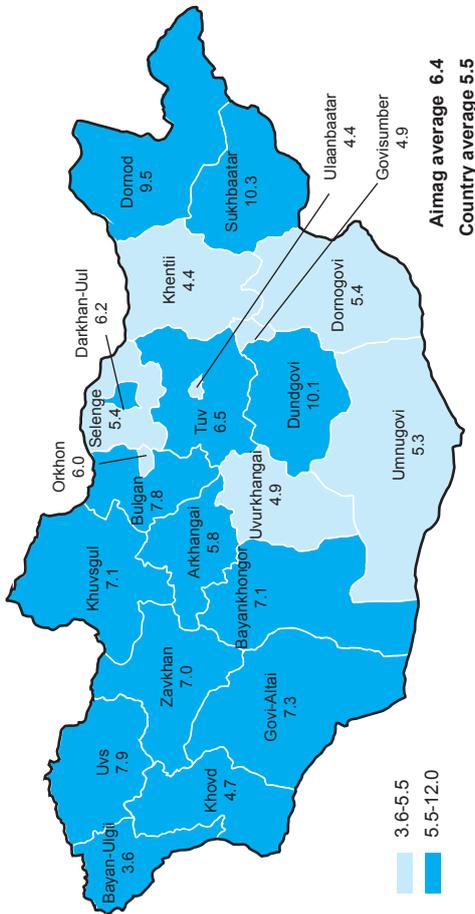


### Incidence of Lung cancer

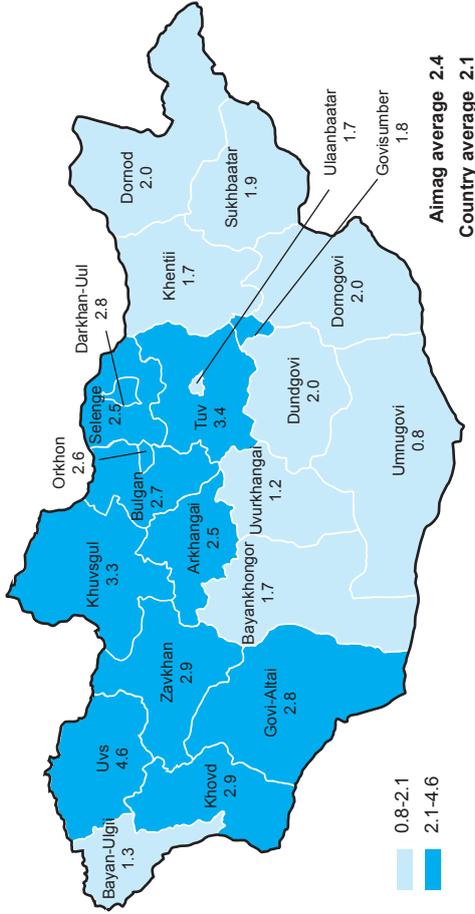


**DEATHS OF MALIGNANT NEOPLASMS, PER 10 000 POPULATION**

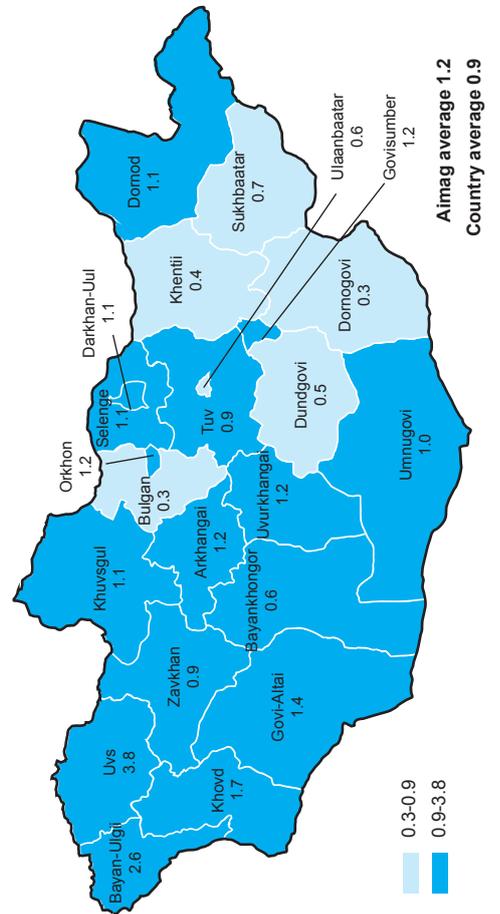
**Deaths of Liver cancer**



**Deaths of Stomach cancer**



**Deaths of Oesophagus cancer**



**Deaths of Lung cancer**

