



HEALTH INDICATORS

2017

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FOREWORD

The presented Health Indicators for 2017 is based on the official statistical data of the health sector, estimated and summarized by international methodology.

This annual report presents the main health indicators by levels of health care services and leading causes of population mortality and morbidity by region.

The report provides SDG's Health Indicators for 2017, which Mongolia has articulated its development vision in "Concepts of Mongolian Sustainable Development-2030", approved by the 19th Resolution of State Great Khural (Parliament) of Mongolia on 5 February 2016. The health indicators and relevant information have been prepared within four health objectives of SDG's and expressed by 115 tables, 99 figures and 50 geospatial imagery.

In addition, in the era of information age, users are eager to get more information within limited time, the Health Indicators of SDGs is also available for you as a form of thumbnail with figures, main data and statistics.

As of 2017, the life expectancy at birth has increased, reached to 69.89; maternal mortality has decreased by 22.1 per 100 000 live births and infant mortality rate has decreased by 6.0 per 1 000 live births from the 2008 figure, as reached at the lowest rate in recent years.

In Mongolia, the number of person per hospital bed was 130, the number of person per one physician was 293, and the duplicated number of hospital inpatient care 2 756 per 10 000 population, one person had 5.7 visits a year for receiving outpatient health care services. This shows that accessibility of health care services has been improving year by year.

We would like to express our appreciation to the WHO Representative's Office in Mongolia for providing financial support 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.

We look forward to cooperate with you if you send your valuable comments and suggestions on the monthly, quarterly, annual reports and health statistics, provided by the Center. And we strongly believe that this annual report can provide timely information for health policy and decision makers, and other users for making evidence-based decisions.

GENERAL DIRECTOR

D.GANTSETSEG

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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 Organization

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

BIBLIOGRAPHY

- 1. Global Fund supported HIV/AIDS and TB project, MOH, Methodology for estimating health indicators, UB, 2010.
- 2. World Health Organization, International classification of diseases, volume I, 2008.
- 3. World Health Organization, International classification of diseases, volume II, 2008.
- 4. National Statistical Office of Mongolia, Mongolian statistical yearbook, UB, 2013.
- 5. National Statistical Office of Mongolia, Mongolian statistical yearbook, UB, 2014.
- 6. National Statistical Office of Mongolia, Mongolian statistical yearbook, UB, 2015.
- 7. National Population Fund, Mongolian National University, Population Training Research Center, Handbook for methodology for estimating reproductive health statistical data, series II., UB., 2013.
- 8. National Center for Communicable Diseases, Annual report 2014, UB, 2016.
- 9. Center for Health Development., Health statistical data, volume I, UB, 2017.
- 10. Center for Health Development., Health statistical data, volume II, UB, 2017.
- 11. Center for Health Development., Health statistical data, volume III, UB, 2017.
- 12. Center for Health Development., Health statistical data, volume IV, UB, 2017.
- 13. Center for Health Development. MOH, Health Indicators, UB, 2011.
- 14. Center for Health Development. MOH, Health Indicators, UB, 2012
- 15. Center for Health Development. MOH, Health Indicators, UB, 2013.
- 16. Center for Health Development. MOH, Health Indicators, UB, 2014
- 17. Center for Health Development. MOH, Health Indicators, UB, 2015
- 18. Center for Health Development. MOH, Health Indicators, UB, 2016

ABSTRACT

"Health Indicators 2017" is composed 15 chapters, 41 subgroups and health indicators were compared with the last 10 years. Population of Mongolia reached to 3 million 177.9 thousand by the end of 2017. Out of the total population, 67.6% live in cities and the remaining 32.4% reside in the rural areas.

In 2017, the average life expectancy at birth was 69.89 years, for females 75.44 years and for males 65.88 years..

In 2017, 73 884 mothers gave birth in the country, which compared to 2016, the number of births has decreased by 3 919 or 5.0%. In 2017, 74 328 live births were recorded, out of them, there were 1 717 twins and 36 triplets.

The crude death rate was 7.9 in 1990, whereas the rate was 5.1 in 2017, decreased by 2.8 points compared to 1990.

In Mongolia, the under-five mortality rate per 1000 live births was 87.5 in 1990, and the rate was 16.7 in 2017. The national infant mortality rate has decreased steadily for the last years. In 1990, 4 789 infant deaths were recorded and in 2017 the number of deaths decreased to 1 009. The maternal mortality rate was considerably high during the 1990's in Mongolia.

As a result of the implementation of two times strategies on reducing maternal mortality between 2001 and 2010, the rate has decreased significantly in 2001-2006. As of 2017, the maternal mortality rate per 100 000 live births was estimated at 26.9.

In 2017, a total of 4 005 health facilities were operating and delivering health service around the country, including 13 central and specialized hospitals, 5 RDTCs, 16 aimag general hospitals, 12 district general hospitals and public health centres (PHCs), 6 rural general hospitals, 39 inter-soum hospitals, 218 family health centres, 273 soum health centres, 240 private hospitals and 1226 private clinics.

In 2017, total of 50 519 healthcare employees were worked in the public and private organizations of the health sector and this number was increased by 4.8% compared to the previous year. Out of total health personnel, 92.8% employed by health sector and 7.2% represents health workers employed by other sectors.

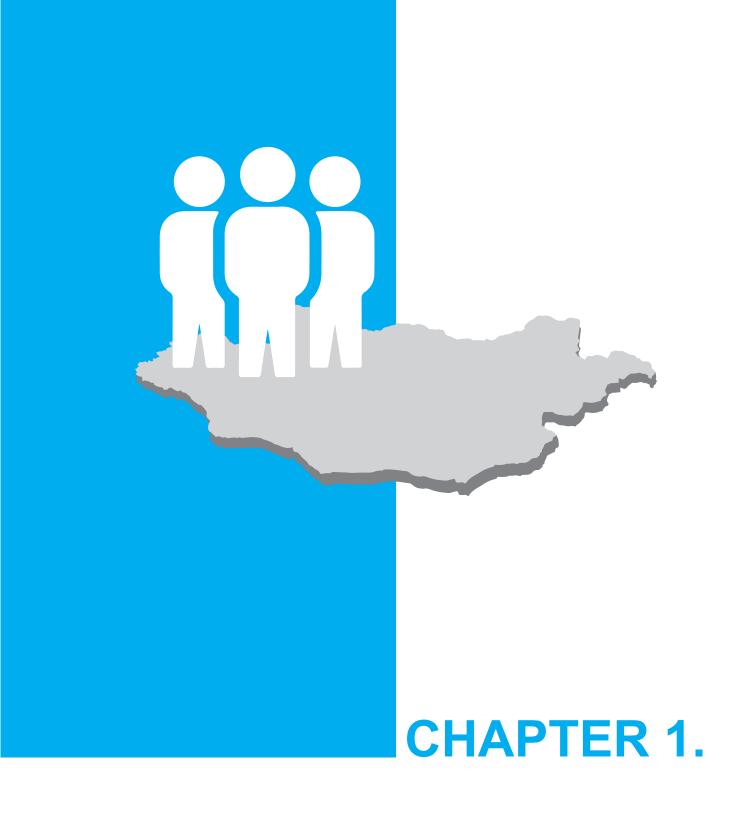
The total number of health workers employed by health sector by level of care as follows: 22.3% of them working in primary health care, 18.0% in secondary health care, 16.1% in tertiary health care, 18.1% in private hospitals and clinics, and 25.5% in maternity hospitals and other health care organizations, respectively.

As of 2017, an average number of population per a physician was 293, it has decreased by 16 persons, and an average number of population per a nurse was 259, this number has decreased by 10 persons respectively, as compared to the previous year.

In 2017, there were 15 812 deaths registered in the nationwide, which reduced by 369 cases or 1.2%, compared to the last year. In terms of sex, 60.8% were males and 39.2% were females of all deaths. Out of all deaths, 4292 deaths or 27.1% were occurred in hospitals, and the proportion of deaths that occurred within 24 hours of admission was 22.5%.

In 2017, 44 300 cases of 28 types of communicable diseases were registered, which estimated at 144.9 per 10 000 population. Compared to the previous year, the number of cases decreased by 25 363 cases or 82.9 per 10 000 population.

The five leading causes of population morbidity from non-communicable diseases per 10 000 population as follows: diseases of respiratory system (1671.4), diseases of digestive system (1558.7), diseases of genitourinary system (952.4), diseases of circulatory system (1145.6), and injuries, poisoning and certain other consequences of external causes (511.2), respectively.



POPULATION OF MONGOLIA

CHAPTER 1.

POPULATION OF MONGOLIA

This section provides an overview of the demographics of the population of Mongolia. This includes indicators of vital statistics on the growth, age and sex distribution, births and deaths, and life expectancy of the population.

The main sources of population statistics are the Population and Housing Census conducted by the National Statistical Office in every 10 years, and annual vital and migration statistics of the population.

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

A household is a group of people who live together in one residence, with a joint budget and who jointly provide their food and other basic needs. Household members are typically family members or relatives; however, a household can include members with no family relation. The urban population includes population reside in Ulaanbaatar city, province 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 1 000 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 1 000 mid-year population of the given geographical area during the same year age and expressed as a promille.

1.1. POPULATION

By the end of 2017, the total population of Mongolia was 3 177.9 thousand, increased by 57.9 thousand or 1.9 percent compared to the previous year. Out of the total population, 67.6% live in cities and the remaining 32.4% reside in rural areas. 1 463.0 thousand people or 46.0 percent of the population resides in Ulaanbaatar. 49.2 percent of the resident population is male and 50.8 percent is female. The sex ratio – the number of males per 100 females - is 97. Population distribution by age group, 30.5 percent of the population is children under 15 years, and 65.7 percent of the population aged 15-64 years, and 3.9 percent of the population is over the age of 65, respectively. As of 2017, the total number of households was 885.6 thousand, and 66.0 percent of households in urban areas and 34.0 percent of households in rural areas. The average family size is 3.6 person. Out of the total households, 386.2 thousand live in Ulaanbaatar city; 174.5 thousand live in Khangai region, 152.1 thousand in Central region, 106.0 thousand in Western region, and 66.8 thousand live in Eastern region.

Figure 1.1.1. Urban and rural population by province. 2017

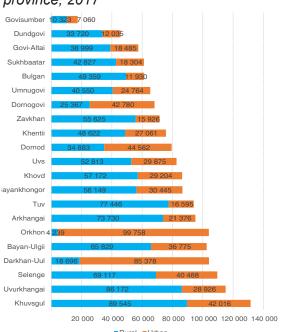
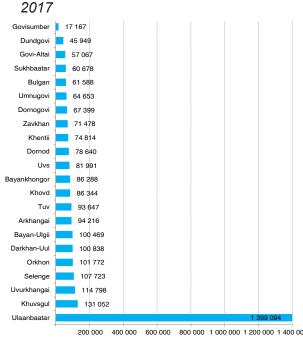
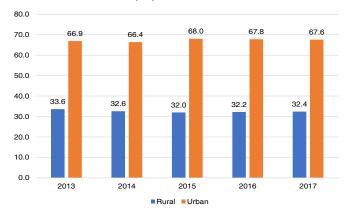


Figure 1.1.2. Average population by province,



In terms of population distribution, 67.2 percent of the total resident population in Mongolia or 2 103.2 thousands people reside in towns and villages. The urban population is highest (more than 50 percent of the total population reside in urban areas) in Orkhon, Darkhan- Uul, Govisumber and Dornogovi provinces.

Figure 1.1.3. Proportion of urban and rural population



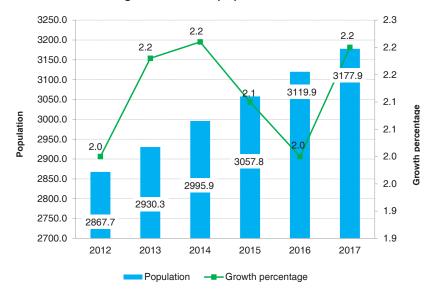


Table 1.1.4. Number and annual growth rate of population, 2012-2017

The population growth rate has increased for the last years. In 2011, the rate was 1.74 and it reached to 2.2 in 2017, which increased by 0.46 points.

1.2. SELECTED DEMOGRAPHIC INDICATORS

In Mongolia the fertility rate steadily decreased between 1990 and 2000, and then fluctuated during the past 15 years. During 2007-2009, the number of birth increased steadily as compared to the previous years. In 2014, 81.7 thousand children born, considered as the highest birth rate. This number decreased to 74.3 in 2017.

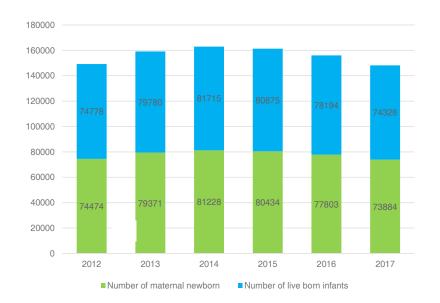


Figure 1.2.1. Woman who gave births and live births, 2012-2017

Although there was a twofold reduction in the 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 and reached to 24.0 per 1000

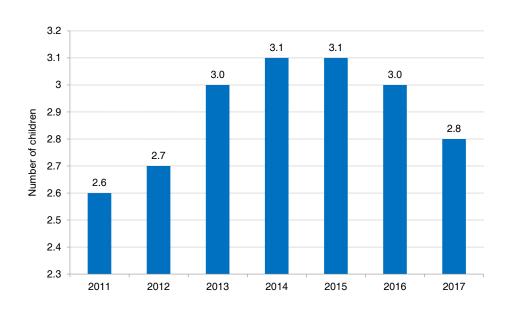
population in 2017. The birth rate in 2017 has decreased by 1.3 points as compared to the previous year. In 2017, there were 74.3 thousand babies born, which is a decrease in 5.0% from previous year. The sex ratio at birth is 105 boys per 100 girls.

Table 1.2.1. Demographic indicators by selected years

Indictors	1990	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total population (thousand)	2 149.2	2 683.5	2 735.5	2 780.7	2 811.6	2 867.7	2 930.3	2 995.9	3 057.7	3 119.9	3 177.9
Urban population (%)	54.6	61.4	62.6	63.3	67.1	67.2	68.1	66.4	68.0	68.9	67.6
Rural population (%)	45.4	38.6	37.4	36.7	32.9	32.8	31.9	33.6	32.0	31.1	32.4
Age group (%)											
0-15	41.5	28.1	27.6	27.3	27.2	27.6	27.4	28.0	29.6	30.0	30.5
15-64	54.4	67.8	68.4	68.8	68.8	68.4	68.8	68.0	66.6	66.2	65.7
Over 65	4.1	4.1	4.0	3.9	4.0	4.0	3.8	4.0	3.8	3.8	3.9
Demographic rates											
CBR	35.3	23.7	25.3	23.8	25.3	26.3	27.5	27.6	26.7	25.3	24.0
CDR	7.9	5.7	5.7	6.3	6.2	5.9	5.6	5.6	5.4	5.2	5.1
Growth rate	2.7	1.8	1.9	1.7	1.9	2.0	2.2	2.2	2.1	2.1	2.2
TFR	4.3	2.6	2.8	2.4	2.6	2.7	3.0	3.1	3.1	3.0	2.8

The crude death rate was 7.9 in1990, it declined 5.1 in 2017, decreased by 2.8 compared to 1990.

Figure 1.2.2. Total fertility rate by selected years, 2012-2017



The total fertility rate (TFR) was 4.3 in 1990, and it decreased to 2.75 in 1995, whereas the rate was 2.25 in 2000, which decreased 2 times as compared to the 1990 figure. In the field of demography, total fertility rate of minimum 2.1 is considered to ensure replacement level fertility or long-term "natural" replacement of the population. However, the total fertility rate was 1.99 in 2003, which lower than the replacement level fertility. And it declined further down to 1.95 in 2005 which was the lowest level in the history of Mongolia. As a result of pro-fertility policies taken by the government, TFR climbed up to 2.34-2.69 in 2007-2009. However, the rate has declined again reached to 2.39 in 2010. TFR in 2017 was 2.8, the rate has been increasing steadily since 2011.

1.3 AVERAGE LIFE EXPECTANCY

Globally, life expectancy has been improving at a rate of more than 3 years per decade since 1950, with the exception of the 1990's.

During the 1990's, progress on life expectancy stalled in Africa because of the rising HIV epidemic; and in Europe because of increased mortality in many ex-Soviet countries following the collapse of the Soviet Union. Life expectancy increase accelerated in most regions from 2000 onwards, and overall there was a global increase of 5.0 years in life expectancy between 2000 and 2015, with an even larger increase of 9.4 years observed in the WHO African Region.

The global average increase in life expectancy at birth since 2000 exceeds the overall average rate of life expectancy increase achieved by the best-performing countries over the past century.

In 2017 the life expectancy at birth reached to 69.89 years, increased by 0.32 points as compared to the previous year. And the life expectancy for women was 75.44 years and for men 65.88 years

On average, women live longer than men in every country of the world, and the difference is 4 years. For Mongolia, female life expectancy is higher than male by 9.56 years. From the estimates of global life expectancy by country for 2017: the country with the highest life expectancy is Monaco at 89.42, while the country with the lowest life expectancy is Chad at 50.2. Mongolia is ranked at 159th.

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

Nº	Coutnry/ciry	Average life expectancy	Year
1	Monaco	89.42	2017
2	Japan	85.26	2017
3	Singapore	85.21	2017
4	Macau	84.55	2017
5	San Marino	83.34	2017
6	Andorra	82.85	2017
7	Jersi	82.61	2017
8	Hong Kong	82.52	2017
9	Australia	82.31	2017
10	Italy	82.28	2017

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

In 2017, there was a difference among aimags and regions in average life expectancy.

The lowest life expectancy is in the khangai area of 70.14, the central region has the highest life expectancy in the population, which estimated at 71.8. Indicating by aimags: Khuvsgul /66.18/, Uvs /68.84/, Dornod /68.76/, Darkhan-Uul /68.67/, Govi-Altai /69.43/ and Bayankhongor /69.27/, and these aimags are below the national average life expectancy.

Table 1.3.2. Average life expectancy by regions and sex, 2017

Province/city	Total	Male	Female
Total	69.89	65.88	75.44
Western region	70.82	67.09	74.14
Bayan-Ulgii	73.12	70.31	75.38
Govi-Altai	69.43	64.65	73.76
Zavkhan	70.11	67.6	72.84
Uvs	68.84	63.93	72.87
Khovd	72.63	68.94	75.85
Khangai region	70.14	67.34	74.24
Arkhangai	70.81	68.35	72.32
Bayankhongor	69.27	66.3	71.01
Bulgan	73.40	68.58	76.71
Uvurkhangai	71.33	70.34	81.81
Khuvsgul	69.85	67.31	72.65
Orkhon	66.18	63.15	70.96
Central region	71.80	68.44	76.48
Govisumber	73.01	72.01	75.53
Darkhan-Uul	68.67	64.37	74.35
Dornogovi	70.60	66.09	76.56
Dundgovi	73.58	70.61	78.13
Umnugovi	71.85	67.78	76.48
Selenge	72.08	67.81	78.33
Tuv	72.85	70.43	75.98
Eastern region	70.86	66.95	75.20
Dornod	68.76	64.85	73.08
Sukhbaatar	72.07	67.17	76.97
Khentii	71.75	68.83	75.54
Ulaanbaatar	71.51	66.71	74.9

Population age and sex composition is always affected by fertility, mortality and migration of the country. In other words, the decline in births, mortality rates and the increase in life expectancy of the population has resulted to decrease in the proportion of younger age population and increase in the proportion of older people.

There are 2 concepts used to asses age composition of population in the field of demographic study, If population percentage aged 0-14 is greater than 35 percent out of total population, it is considered that age composition is "young" and if the percentage is smaller than 25 percent, its age composition is "old". The percentage of the 0-14 year-olds out of total population was 30.5, in our country.

On the other side, if population percentage aged 65 and above in total is more than 10 percent, it can be said that the age composition is "old". On the contrary, if the percentage is below 5 percent, age composition is considered "young". The percentage of population aged 65 and above represents 3.9 percent in 2017 in the total population.

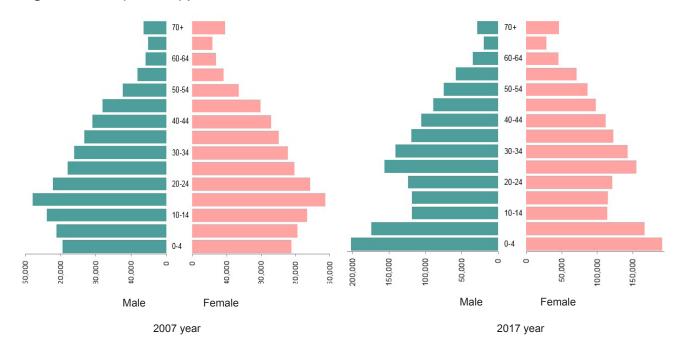
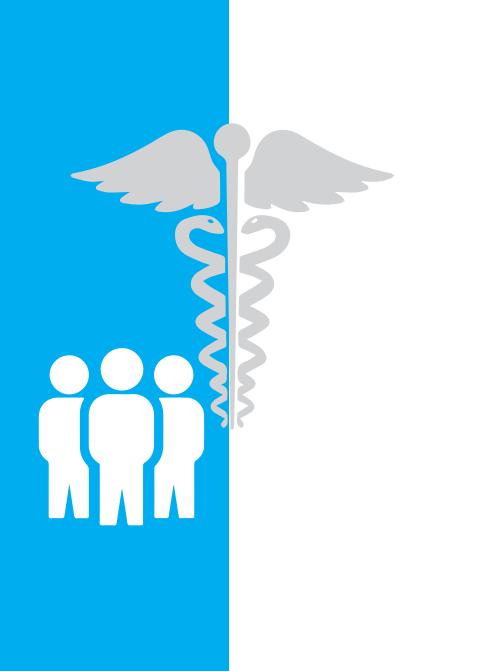


Figure 1.3.1 Population pyramid, 2007 and 2017

The figure 1.4.1 shows age structure diagram, which depicts age and sex distribution of the population in 2007 and 2017.

According to the population pyramid, the proportion of 15-19 year olds was high in 2007 and the proportion of 15-19 years olds was low in 2017, explained by a decline in the fertility rate between 2001 and 2005. However, since 2011 the fertility rate has been increasing gradually as indicated widening in the base of the pyramid.



CHAPTER 2.

INDICATORS FOR SUSTAINABLE DEVELOPMENT GOALS

CHAPTER 2.

INDICATORS FOR SUSTAINABLE DEVELOPMENT OBJECTIVES

The Sustainable Development Goals (SDGs) are set of development goals for the global development to be achieved for the next decade and a half as a continuation of Millennium Development Goals. The agenda for SDGs was approved by the United Nations General Assembly during its 70th High-Level Meeting in September 2015, consists of 17 goals and 169 targets to achieve by the year 2030.

Mongolia has articulated its development vision in "Concepts of Mongolian Sustainable Development-2030", which was approved by the 19th Resolution of State Great Khural (Parliament) of Mongolia on 5 February 2016.

The long-term Concept of Sustainable Development of Mongolia to be implemented by three phases: 2016-2020, 2020-2025 and 2025-2030.

By 2030, Mongolia would achieve the following targets through implementation of the Sustainable Development Vision such as end poverty in all its forms, improve the living environment of the Mongolian people to lead a healthy and long life; increase life expectancy at birth to 78 years and be placed among first 70 countries on the ranking of countries by the human development index.

Out of 17 SDGs, goal 3 focused on health, aimed at ensuring healthy lives and promoting well-being for all at all ages.

17 SUSTAINABLE DEVELO	PMENT GOALS				
SDG-1 (7, 11)	SDG-7 (5, 10)	SDG-13 (5, 8)			
No Poverty	Clean energy	Protect the planet			
SDG-2 (8, 12)	SDG-8 (12, 22)	SDG-14 (10, 20)			
No hunger	Good jobs and economic growth	Life below water			
SDG-3 (13, 26)	SDG-9 (8, 22)	SDG-15 (12, 24)			
Good health	Innovation and infrastructure	Life on land			
SDG-4 (10, 15)	SDG-10 (10, 17)	SDG-16 (12, 21)			
Quality education	Reduced inequalities	Peace and justice			
SDG-5 (9, 23)	SDG-11 (10, 20)	SDG-17 (19, 38)			
Gender equality	Sustainable cities and communities	Partnerships for the goals			
SDG-6 (8, 12)	SDG-12 (11, 21)	Yellow: social, Blue: economic,			
Clean water and sanitation	Responsible consumption	Green: environmental, Purple institutional development			

Objective 1. Create a national disease prevention system, increase access to diagnostic services and increase life expectancy of the population.

Actions towards achieving this objective include reforming the health insurance system; ensuring early diagnosis and urgent responses to preventable and predominant diseases; improving the capacity of investigation; strengthening early diagnostic system and reference laboratories; and increasing life expectancy of the population to 71 years by 2020, to 74 years by 2025 and to 78 years by 2030.

The life expectancy at birth in 2017 was 69.89, which increased by 0.32 points compared to the previous year. Overall, female life expectancy is 75.44 years and male life expectancy is 65.88 years. On average, women live longer than men in every country of the world, and the difference is 4 years. For Mongolia, female life expectancy is higher than male by 9.56 years.

The life expectancy at birth is directly influenced by infant mortality rate. In 2016, the infant mortality rate was 16.8, which increased by 1.8 points as compared to 2015. This has influenced on declining average of life expectancy at birth.

However, the infant mortality rate decreased by 3.2 points in 2017 compared to the previous year, which have led to increases in life expectancy at birth.

Objective 2. Reduce factors affecting preventable maternal and child mortality by improving the quality and accessibility of reproductive health care services, and decrease maternal and child mortality and malnutrition. Under this objective the following targets were set:

By 2020, reduce maternal mortality ratio to 25 per 100,000 live births, under-5-child mortality to 15 per 1,000 live births and infant mortality to 13 per 1,000 live births.

By 2025, reduce maternal mortality ratio to 20 per 100,000 live births, under-5-child mortality ratio to 12 per 1,000 live births and infant mortality ratio to 11 per 1,000 live births.

By 2030, reduce the factors of preventable maternal and child mortality, and reduce maternal mortality in 100,000 live births to 15, under-5-child mortality in 1,000 live births to 9 and infant mortality in 1,000 live births to 8.

Table 2.1. Maternal mortality rate (per 100 000 live births), by selected years

Indicator	1990	2000	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2020
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	48.6	26.9	25.0ª
Ulaanbaatar	126.0	171.1	71.8	73.7	55.2	78.9	46.2	44.2	43.0	52.3	35.9	28.8	41.8	31.2	-
Province 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	56.0	22.3	-

Source: a. Resolution No 19, State Great Khural, Mongolia

"Approving Mongolia Sustainable Development Vision-2030", 2016

The maternal mortality rate in the country has reduced almost 4.6 times since 1990 and Mongolia has become a country with moderate level of maternal mortality from the country with high maternal mortality.

For the last decade, the maternal mortality rate has decreased in Mongolia significantly from 49.0 in 2008 down to 26.0 per 100 000 live births in 2015, reached at the lowest rate. The maternal mortality rate per 100 000 live births was estimated at 26.9 in 2017, decreased by 21.7 compared to the previous year.

In 2017, 20 cases of maternal mortality were recorded and it was 26.9 per 100,000 live births. Since 2016, maternal mortality decreased by 18 cases (47.4%) which comes to 21.7 per 100,000 live births. No maternal deaths were recorded in Arkhangai, Bayankhongor, Bulgan, Govi-Altai, Govisumber, Darkhan-uul, Dornogovi, Dornod, Dundgovi, Orkhon, Uvurkhangai, Selenge, Tuv and Khuvsgul aimags. 90.0% of maternal deaths occurred in hospitals and 10.0% at home.

Table 2.2. Infant and under-five mortality (per 1 000 live births), by selected years

Indicator	1990	2000	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2020
			Inf	ant mor	tality /p	er 1 000	live bir	ths/					
Gender													
Male	-	-	22.4	22.6	21.3	17.5	17.1	16.0	17.2	17.4	18.6	14.8	
Female	-	-	16.6	17.6	17.3	15.1	13.4	13.1	13.3	13.0	14.9	12.2	
Location													
National average	63.4	31.23	19.6	20.2	19.4	16.3	15.3	14.6	15.3	15.3	16.8	13.6	13.0ª
Ulaanbaatar	70.3	32.8	17.5	18.0	16.1	13.3	13.1	13.6	15.0	14.7	15.0	12.7	-
Province average	62.5	30.8	21.2	21.9	22.1	19.2	17.5	15.7	15.7	15.9	18.8	14.5	-
			Unde	r-five m	ortality	/per 1 0	000 live	births/					
Gender													
Male	-	-	26.4	25.9	26.4	21.9	20.8	22.6	20.3	20.7	23.0	18.0	
Female	-	-	20.2	21.2	22.7	18.0	16.5	16.9	16.4	15.7	18.5	15.4	
Location													
National average	87.5	42.4	23.4	23.6	24.6	20	18.7	18.0	18.4	18.3	20.8	16.7	15.0ª
Ulaanbaatar	99.9	42.4	20.8	21.0	20.6	16.2	16.0	16.3	17.8	17.3	18.2	15.4	-
Province average	94.4	42.5	25.3	25.7	28.0	23.5	21.3	19.7	19.0	19.2	23.7	18.1	-

Source: a. Resolution No 19, State Great Khural, Mongolia

"Approving Mongolia Sustainable Development Vision-2030", 2016

Infant and under-five mortality rates have decreased significantly since 1990, for the past 20 years. It can be seen that the under-five mortality rate per 1000 live births fell 5.2 times and the infant mortality rate per 1000 live births decreased 4.7 times in 2017 as compared to 1990.

The national infant mortality rate has steadily decreased for the last years and reached to its target of the Millennium Development Goals (MDGs). In 2013, the infant mortality rate was estimated at 14.6 per 1000 live births and the rate was 13.6 in 2017, which reached to the lowest level.

At the national level, 1009 infant deaths were recorded in 2017 and the mortality rate was 13.6 per 1000 live births. It has decreased by 3.2 compared to the previous year.

Under-five child mortality rate

It is declared that reduce under-five child mortality to 15.0 per 1,000 live births by 2020 in the "Concepts of Mongolian Sustainable Development-2030", which was approved by the 19th Resolution of State Great Khural (Parliament) of Mongolia on 5 February 2016.

As of 2017, the under-five child mortality rate was 16.7 per 1,000 live births, decreased by 6.7 deaths compared to 2008.

A total of 1244 deaths were registered among children aged under-five years in 2017, which decreased by 384 deaths or by 4.1 per 1,000 live births compared to the previous year.

86.4% of deaths of children under-five were due to illnesses and 13.6% were due to injuries. Out of all deaths, 72.6% and 27.4% have occurred in hospitals and outside hospital, respectively.

Objective 3. Reduce the burden of common non-communicable diseases and reduce health risk factors and preventable deaths through an active and inclusive partnership of individuals, families, communities and organizations.

By 2020, reduce pernicious habits in the population, improve the living environment, strictly enforce standards for food products and decrease deaths per 10 000 populations caused by cardiovascular diseases and cancer respectively, to 17.4 and 10.5.

By 2025, improve the quality of and access to health care services and decrease deaths per 10,000 populations caused by cardiovascular diseases and cancer respectively, to 16 and 9.

By 2030, decrease deaths per 10 000 populations caused by cardiovascular diseases and cancer respectively, to 14 and 8.

Diseases of the cardiovascular system and cancer have been the leading causes of deaths for the population since 1995.

The leading causes of mortality in 2017 were diseases of the cardiovascular system -34.2% and cancer-25.5%. Deaths from these diseases combined accounted for 59.7% of all deaths.

Annually, an average of 5000-5500 people (one in third of all deaths) died from diseases of the cardiovascular system and over 4000 people (one in fourth all deaths) died from cancer.

It is declared that decrease deaths per 10,000 populations caused by cardiovascular diseases and cancer respectively, to 17.4 and 10.5 by 2020 in the "Concepts of Mongolian Sustainable Development-2030", which was approved by the 19th Resolution of State Great Khural (Parliament) of Mongolia on 5 February 2016.

The gender-specific mortality rates for cardiovascular diseases were 21.06 per 10,000 for males and 13.97 per 10,000 for females in 2017. The mortality rate caused by cardiovascular diseases was higher than the national average in Khangai, Western and Central regions, but the rate was lower in Eastern provinces.

In 2017, ischemic heart disease was 25.7, stroke was 19.2 and arterial hypertension was 1.3 per 10 000 population in males aged 45-64 years. Compared to the mortality rate of women of the same age group, ischemic heart disease is 5.7 times, stroke is 1.9 times and arterial hypertension is 1.8 times higher among men than in women.

The stroke was the leading cause of mortality among Mongolian men and the mortality rate was 6.08

per 10 000 population in 2017, which decreased by 0.4 promile compared to the previous year. Until 2003, the mortality rates for ischemic heart disease and stroke were in close proximity but starting from 2012, an increased trend has been observed for the mortality rate for stroke.

Table 2.3. Mortality due to cardiovascular disease and cancer, per 10 000 population, 2007-2017

Indicator	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2020			
Diseases of the	Diseases of the circulatory system														
Total	21.92	20.54	21.74	23.61	22.58	20.91	19.60	19.11	18.86	17.45	17.45	17.4ª			
Male	25.21	22.02	24.19	27.33	26.65	25.02	22.70	22.10	21.66	20.54	21.06	-			
Female	18.80	18.76	19.41	20.29	18.73	17.04	16.70	16.20	15.40	14.46	13.97	-			
Neoplasms															
Total	12.21	11.80	11.89	13.02	12.69	12.60	13.00	13.52	13.59	13.41	13.03	10.5ª			
Male	13.25	13.45	13.95	15.11	15.85	14.74	14.9	15.5	14.81	15.07	15.06	-			
Female	9.50	10.10	9.92	11.15	10.36	10.67	11.2	11.7	11.6	11.61	11.08	-			

Source: a. Resolution No 19, State Great Khural, Mongolia

"Approving Mongolia Sustainable Development Vision-2030", 2016

Since 1990, cancer has been the second leading cause of population mortality in Mongolia. In 2017, deaths caused by cancer accounted for 25.5% of all deaths, and the mortality rate for cancer was 15.06 per 10,000 in males and 11.08 per 10,000 in females.

The five leading causes of cancer by primary sites in males were liver, stomach, lung, bronchial tubes, esophagus and colon/rectum; whereas in females they were liver, stomach, cervix, esophagus, lung and bronchial tubes.

In 2017, 78.3% of the population diagnosed their cancer during the late stages (III and IV) of the disease, and 82.4% of cancer patients survived for less than a year after the diagnosis.

The percentage of cancer diagnosed during the late stages was at the same level and the percentage of cancer patients survived for less than a year after the diagnosis was increased by 15.3 percent compared to 2008.

Objective 4. Decrease the spread of communicable diseases through prevention, early detection and preparedness to treat communicable diseases, by improving the rapid response capacity of health services, and by ensuring access to priority vaccines for everyone.

Under this objective the following targets were set:

By 2020, increase the rate of scheduled vaccination to 98.5 percent, and reduce the prevalence of hepatitis and tuberculosis in 10,000 populations respectively, to 3 and 14.4.

By 2025, increase the rate of scheduled vaccination to 99 percent, and reduce the prevalence of hepatitis and tuberculosis in 10,000 populations respectively, to 2.5 and 14.

By 2030, increase the rate of scheduled vaccination to 99.8 percent, and reduce the prevalence of hepatitis and tuberculosis in 10,000 populations respectively, to 2 and 13.

The incidence rate of tuberculosis (TB) in 1996 was 14.6 per 10 000 population, while in 2006 it reached

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to 18.6, increased by 1.3 times. However, it has continuously decreased since 2007 reached to 16.8 per 10 000 population. The incidence of TB in 2011 was 14.3, in 2015 was 14.1 and in 2017 was 12.4 per 10 000 population, respectively,

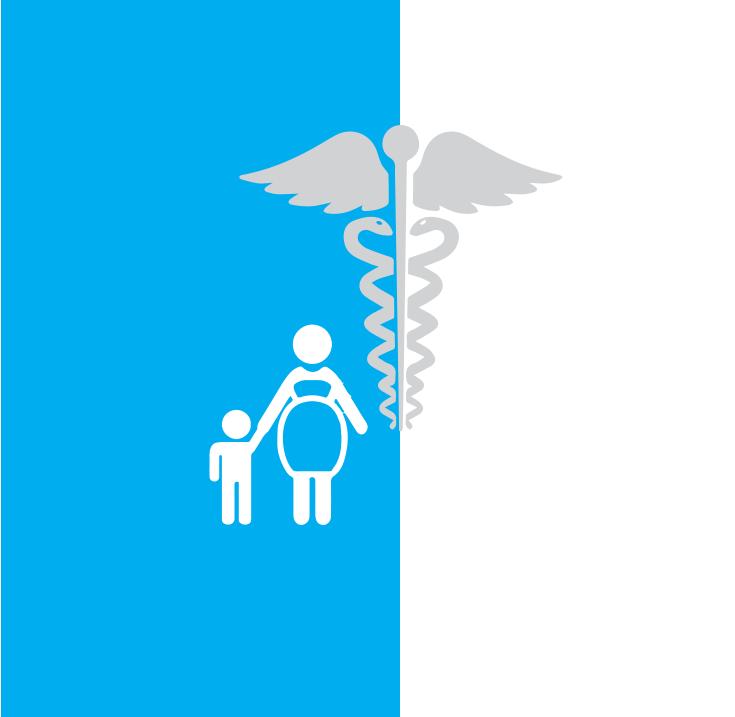
Over 4000 new cases of TB were registered annually for the last five years. There was an increase of new cases of TB in every year between 2012 and 2015. However, the number of new cases of TB decreased by 266 cases in 2017 compared to the previous year.

Table 2.4. Tuberculosis, viral hepatitis incidence, per 10 000 population, by selected years

Indicator	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2020	
Tuberculosis													
Total	16.8	16.0	15.6	15.3	14.3	13.9	14.2	14.1	14.1	13.1	12.4		
Male	18.2	17.4	16.4	16.7	16.5	15.9	16.2	16.1	15.7	14.2	13.7	14.4ª	
Female	15.4	14.6	14.8	13.9	12.2	12.0	12.3	12.1	12.5	12.0	10.8		
Viral hepatitis													
Total	38.5	39.3	25.3	33.0	52.7	24.1	8.8	3.9	2.9	1.8	1.7		
Male	41.7	42.6	28.3	36.4	59.1	27.1	10.4	4.7	3.3	2.0	2.0	3.0ª	
Female	35.5	36.2	22.5	29.7	46.5	21.4	7.2	3.1	2.6	1.7	1.5		

Source: a. Resolution No 19, State Great Khural, Mongolia "Approving Mongolia Sustainable Development Vision-2030", 2016

A total of 534 new cases of viral hepatitis were registered in the nationwide in 2017, which accounted for 1.2% of all communicable diseases. The incidence decreased by 32 cases compared to the previous year. Out of all viral infections, 9.6% was viral hepatitis A, 56.9% was viral hepatitis B, and 17.0% was other viral hepatitis.



CHAPTER 3.

MATERNAL AND CHILD HEALTH

CHAPTER 3.

MATERNAL AND CHILD HEALTH

3.1. MATERNAL HEALTH

The Government of Mongolia has approved a "National program on maternal, child and reproductive health" by the Government Resolution No.78, on March 07, 2017.

Implementation of the program during 2017-2021, to reduce maternal and child mortality by ensuring to create a favorable social and economic environment, strengthening financial stability of the program, and enhancing an active and inclusive partnership of citizens and civil society organizations for improving the quality and accessibility of healthcare services for all.

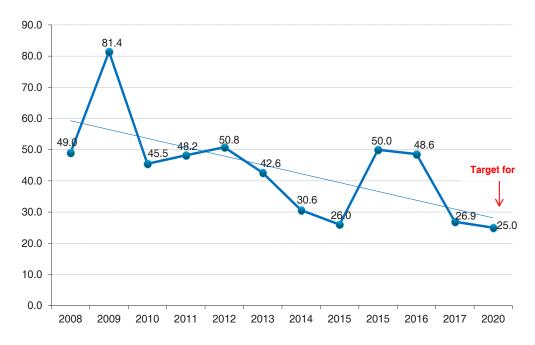


Figure 3.1.1 Maternal mortality ratio per 100 000 live births (2008-2017)

Maternal mortality ratio per 100 000 live births was estimated at 48.6 in 2016, which the ratio has reduced compared to the previous 10 years. However, there was an increase compared to the last year.

3.2. PREGNANCY CONTROL AND ANTENATAL CARE SERVICES

In 2017, a total of 77815 pregnant women were newly registered by antenatal care service and 86.8% of them at the first trimester or first 3 months, 12.0% at the 4-6 months, and 1.2% at the 7 months or late entry into antenatal care, respectively.

Early antenatal care services in terms of urban vs. rural areas showed that 87.0% were in urban areas, 86.5% were in rural areas, respectively. Both indicators have increased by 2.0% and 2.1%, respectively, when compared to the previous year.

Overall anemia prevalence among pregnant women who attended in the pregnancy control was 3.5%, and it was decreased by 0.2% compared to the previous year The percentage of pregnant women with anemia was 1.7-7.1 times higher than the national average in Arkangai, Bayan-Ulgii, Darkhan-Uul, Dornod, Orkhon, Uvurkhangai and Khovd aimags.

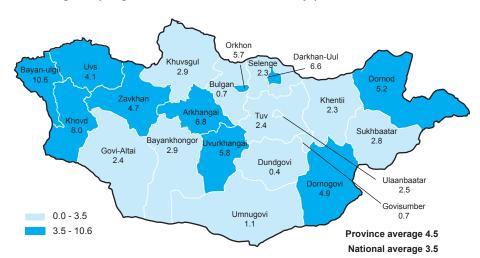


Figure 3.2.1 Percentage of pregnant women with anemia by province, 2017

Total participation rate was 97.4% who was provided a blood sample for antenatal syphilis test. Overall syphilis positivity was 2.4% of pregnant women and the following areas were 1.2-2.4 times higher than the country average: Govisumber /4.8/, Selenge /3.6/ and Khuvsgul /4.3/, respectively.

Gonorrhea screening covered 91.5% of pregnant women, which have increased by 0.2 percent from the previous year. Overall gonorrhea positivity was 0.4% of pregnant women and the following areas were 0.9-1.3 times higher than the country average: Dornod /1.7/, Sukhbaatar /1.5/ and Khuvsgul /1.3/, respectively.

Total participation rate for trichomoniasis testing was 92.1% and 1.9% of pregnant women were a positive for this test. The following areas were 1.1-6.5 times higher than the country average: Bayankhongor /8.4/, Dornod /3.2/, Orkhon /3.8/, Sukhbaatar /4.7/, Selenge /3.5/ and Tuv /3.0/, respectively.

During the antenatal period, 49.3% of pregnant women have taken X-ray examinations and 189 cases (0.5%) of active tuberculosis were identified.

Total of 349 maternal resting wards were functioning throughout the country in 2017, of which 273 were in soum health centers, 38 in inter-soum hospitals, 17 in aimag's general hospitals, 10 in village health centers, 5 in rural general hospitals, 5 in Regional Diagnostic and Treatment Centers (RDTC) and 1 in hospital of Ulaanbaatar, respectively.

Out of all maternal resting wards, 111 or 33.8% located in designated buildings and 67.6% /236/ located in clinics and total of 66 989 bed days were used and average length of stay at a maternal resting ward was 6.5 days.

A total of 4 new maternal resting wards were built, in 33 places building maintenance or renovation and in 68 places comport improvement have been completed in 2017. Of mothers required for antenatal resting service, 71.6% went to resting wards.

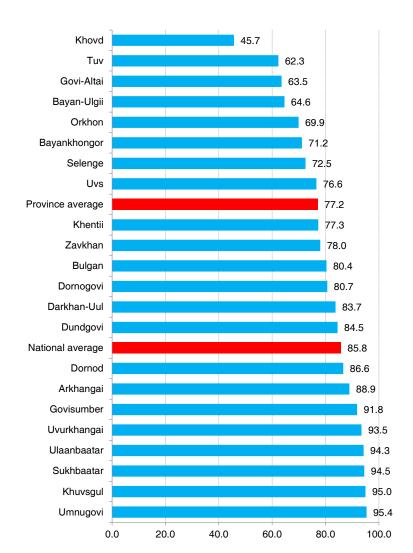


Figure 3.2.2 Percentage of women underwent antenatal check-ups more than 6 times during pregnancy, 2017

In 2017, 85.8% 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 2017, 73 884 mothers gave birth in the country, which compared to 2016, the number of births has decreased by 3919 cases or 5.0%. Birth numbers increased in Bayan-Ulgii, Dornod and Uvs aimags, but decreased in other aimags and Ulaanbaatar city.

The crude birth rate per 1000 people is 24.0 in the country, and this indicator is higher than the national average in Bayan-Ulgii /28.4/, Orkhon /25.3/ and Khovd /25.6/ aimags.



Figure 3.3.1 Crude birth rate per 1 000 population, by province, 2017

47.3% of total births were in Ulaanbaatar city, 29.5% were in aimag center general hospitals, 12.3% were in RDTCs, 5.7% were in soum, inter-soum and village hospitals, 2.4% were rural general hospital, 2.3% were in private clinics and in National Center for Infectious Diseases, and 0.4% were home births. Of deliveries, 28.9% were first birth, 46.1% were 3 or more year's intervals birth, respectively.

99.8% of all births were attended by skilled health personnel. Percentage of mothers under 20 years old was 4.9% while of mothers aged over 35 years was 16.0%.

By estimating of the general fertility rate, 87 out of 1000 women of reproductive age gave birth in 2017.



Figure 3.3.2 Percentage of caesarean section among deliveries, by province, 2017

The World Health Organization (WHO) recommended level of caesarean sections (C-section) is 5-15% from all deliveries. In 2017, the percentage of births by C-section was estimated at 25.6% in Mongolia, which considered relatively high. The number of C-section has decreased by 4.3% (817 cases) when compared to the previous year. The C-section rate was lower than country average by 2.8 points in the Western region. In contrast, it was higher by 0.3-2.2 points in Khangai, Central and Eastern regions.

Table 3.3.1 Percentage of births by caesarean section, by region, 2017

	Mothers gave hirthe	Mothers underwent C-section (n)			
	Mothers gave births	number	percent		
Western region	9606	1742	18.1		
Central region	9062	1914	21.2		
Khangai region	12462	2740	21.9		
Eastern region	4639	1071	23.1		
Province average	35769	7467	20.9		
Ulaanbaatar	38115	11446	30		
National average	73884	18913	25.6		

Total of 295 home births have registered, which decreased by 1 case when compared to the previous year. Of those home births, 53.9% were occurred in Ulaanbaatar and this number has decreased by 2.1% from the previous year.

Total number of 125 birth cases were registered, which not attended by skilled health personnel and the number of cases decreased by 11.2% (14 cases) compared to the same period of the previous year. Furthermore, 15.6% (5965) of all mothers who gave birth in Ulaanbaatar hospitals came from countryside. This number has increased by 616 births from the previous year.

Figure 3.3.3 Number of mothers from countryside who gave birth in Ulaanbaatar, 2017

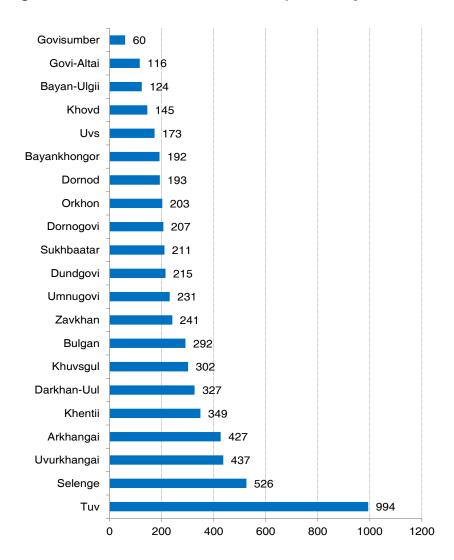


Table 3.3.2 Number of births by type of health facility, 2017

Province, city	Total number of births	Home births	RDTC	Province district general hospitals	Rural general hospitals	SHC, inter- soum hospitals	VHC	Units with medical doctor	Maternity hospitals in UB NCMCH	Private clinics	Other
Arkhangai	1890	3	0	1454	0	433	0	0	0	0	0
Bayan-Ulgii	2844	10	0	2296	0	536	2	0	0	0	0
Bayankhongor	1997	9	0	1766	0	222	0	0	0	0	0
Bulgan	825	5	0	634	0	182	4	0	0	0	0
Govi-Altai	1216	2	0	1107	0	105	2	0	0	0	0
Govisumber	416	1	0	413	0	2	0	0	0	0	0
Darkhan-Uul	2249	14	0	2228	0	7	0	0	0	0	0
Dornogovi	1318	3	0	1025	271	19	0	0	0	0	0
Dornod	1922	14	1851	0	0	57	0	0	0	0	0
Dundgovi	878	4	0	782	0	92	0	0	0	0	0
Zavkhan	1321	4	0	771	323	223	0	0	0	0	0
Orkhon	2566	6	2558	0	0	2	0	0	0	0	0
Uvurkhangai	2417	1	1765	0	279	367	0	1	0	5	0
Umnugovi	1297	6	1051	0	0	240	0	0	0	0	0
Sukhbaatar	1275	8	0	1211	0	56	0	0	0	0	0
Selenge	1712	3	0	909	612	147	41	0	0	0	0
Tuv	1192	5	0	893	0	294	0	0	0	0	0
Uvs	2029	10	0	1746	0	273	0	0	0	0	0
Khovd	2196	6	1835	0	166	189	0	0	0	0	0
Khuvsgul	2767	14	0	2145	0	608	0	0	0	0	0
Khentii	1442	4	0	1150	143	145	0	0	0	0	0
Province average	35769	132	9060	20530	1794	4199	49	0	0	5	0
Ulaanbaatar	38115	163	0	1266	0	0	2	0	34959	1719	6
National average	73884	295	9060	21796	1794	4199	51	0	34959	1724	6

Table 3.3.3 Age specific fertility rate, 2017

Age group	Number of women of reproductive age	Number of live births given by women of reproductive age	Age specific rate
Under 20 years old	156922	3624	23.1
20-24	120045	18035	150.2
25-29	151927	23505	154.7
30-34	140303	17159	122.3
35-39	120931	9599	79.4
Over 40 yaers old	207544	2406	11.6

Crude birth rate was 2.8 for the country. The highest age specific fertility rates (ASFR) were found among 20-24 years old with 150 per 1000 women and 25-29 years old with 154 per 1000 women.

3.4. POST-DELIVERY HEALTH CARE SERVICES

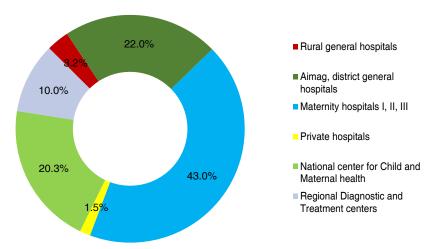
In 2017, 91.1% of mothers who were under prenatal care were received a postnatal care or post-delivery maternal care within 42 days of birth and this number has decreased by 1.0 point when compared to the previous year. This indicator is imperative in reducing a post-delivery complications and maternal mortality.

In connection with pregnancy, childbirth and post-delivery complications, total of 60 462 cases (813 per 1,000 live births) were recorded in 2017.

Among those cases the following complications occurred:

- Complications during pregnancy -37.5 %
- Delivery complications -52.4%
- Postpartum complications -2.4% and
- Other complications not associated with pregnancy and delivery-7.7%, respectively.

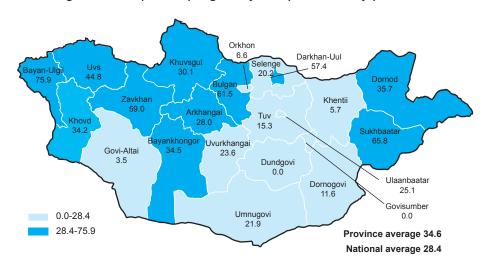
Figure 3.4.1 Percentage of pregnancy, childbirth and post-delivery complications, by type of health facility, 2017



In 2017, 59 cases of congenital syphilis have registered, which increased by 17 cases from the previous year. Those occurrences registered in the following areas: Ulaanbaatar-41, Arkhangai-3, Bulgan-1, Dornogovi-2, Dornod-1, Orkhon-1, Uvurkhangai-3, Umnugovi-1, Selenge-1, Khuvsgul-3 and Khentii aimags 2 cases, respectively.

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 quality of antenatal care services.

Figure 3.4.2 Percentage of eclampsia in pregnancy complications by province, 2017



The percentage of eclampsia-pregnancy complications was 1.5-2.6 times higher than the country average in Bayan-Ulgii /75.9/, Zavkhan /59.0/, Sukhbaatar /65.8/, Uvs /44.8/, Darkhan-Uul /57.4 and Bulgan /61.5/, respectively. On the contrary, it was 2.4-8.1 times lower than the country average in

Dornogovi /11.6/, Govi-Altai /3.5/, Orkhon /6.6/ and Khentii /5.7/, respectively.

The percentage of pregnancy related complications such as pre-eclampsia and eclampsia was 28.2% and 0.2% respectively. First and secondary failure to progress in labor was in 28.8% which were the most common complications during birth. Postpartum hemorrhage accounted for 76.8% of all post-delivery complications.

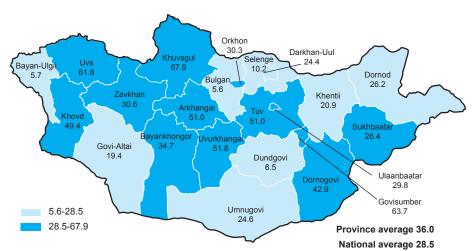


Figure 3.4.3 Percentage of failure to progress in labor by province, 2017

The percentage of failure to progress in labor during the childbirth was 1.5-2.3 times higher than the country average for the following aimags; in Arkhangai /51.0/, Govisumber /63.7/, Dornogovi /42.9/, Uvurkhangai /51.8/, Tuv/51.0/, Uvs /61.8/, Khovd /49.4/ and Khuvsgul /67.9/, respectively.

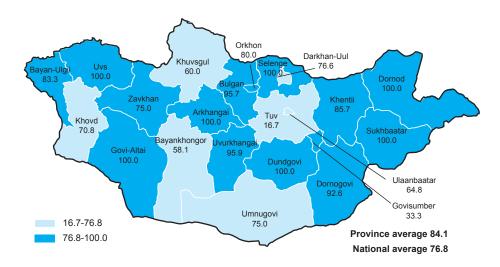


Figure 3.4.4 Percentage of postpartum hemorrhage, 2017

3.5 MATERNAL MORTALITY

The maternal mortality rate in the country has reduced 4.6 times since 1990 and Mongolia has become a country with moderate level of maternal mortality from the country with high maternal mortality. In 2017, 20 cases of maternal mortality were recorded and it was 26.9 per 100,000 live births. Since 2016, maternal mortality has decreased by 18 cases or 21.7 per 100,000 live births. No maternal deaths were recorded in Arkhangai, Bayankhongor, Bulgan, Govi-Altai, Govisumber, Darkhan-Uul,

Dornogovi, Dornod, Dundgovi, Orkhon, Uvurkhangai, Selenge, Tuv and Khuvsgul aimags. 90.0% of maternal deaths occurred in hospitals and 10.0% at home.

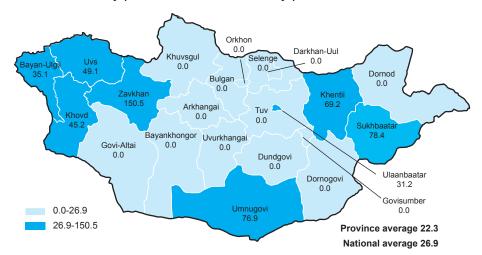


Figure 3.5.1 Maternal mortality per 100 000 live births by province, 2017

Maternal deaths by mother's education are shown as follows: 35.0% higher, 65.0% secondary, respectively. Maternal deaths by mother's occupation are shown as follows: 40.0% employed, 20.0% herder and 35.0% unemployed, respectively.

By looking at the type of health facility where maternal deaths occurred, 5.0% of deaths were in district general hospitals, 15.0% in soum and rural hospitals, 15.0% in aimag general hospitals, 20.0% in city maternity hospitals, 10.0% in RDTC, 15.0% in First State Central hospital, Second and Third State Central hospital, 5.0% in NCMCH, and 10.0% in Centre of Forensic Medicine.

45.0 % of maternal mortality was from pregnancy related complications, 5.0% was from birth

complications, 35.0% was from post-delivery complications and 15.0% was from diseases not related
to pregnancy and birth. This data shows that birth complications and diseases not related to pregnancy
and birth complications are decreased by 19.2%, whilst pregnancy related complications and post-
delivery complications are increased by 13.4% and 3.4%, respectively, compared to the previous year.

Table 3.5.1 Maternal mortality rate per 100 000 live births by age groups, 2017

Age group	Number of mother died	Percent	Number of children born by the same age group women	
Under 20 years old	1	5	3624	27.6
20-24	3	15	18035	16.6
25-29	6	30	23505	25.5
30-34	4	20	17159	23.3
35-39	5	25	9599	52.1
Over 40 years old	1	5	2406	41.6

Maternal mortality rate per 100,000 live births was estimated at 52.1 among women aged 35-39 years, 41.6 among women aged 40 and above years, respectively, which was higher than the country average by 17.4-25.2 promile.

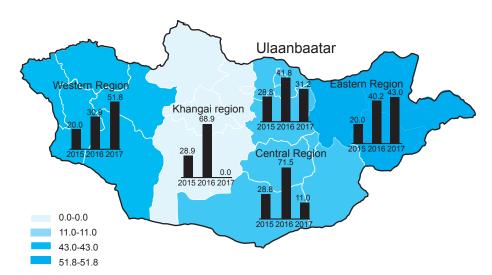


Figure 3.5.2 Maternal mortality rate per 100 000 live births by region, 2015-2017

Maternal mortality rate per 100,000 live births was lower than the country average in the Tuv region by 15.9 promile, but higher than the country average in Ulaanbaatar, Eastern and Western regions by 4.3-24.9 promile. In 2017, the maternal mortality rate in Eastern and Western region was 43.0-51.8 per 100,000 live births, increased by 2.8-20.9 promile when compared to the previous year.

3.6. CHILD HEALTH

When infant receive an appropriate healthcare and social 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 2017, 96.3% of newborns were breastfed within the first hour of life. This indicator was 1.6-6.2% lower than the country average in Arkhangai, Bulgan, Darkhan-Uul, Sukhbaatar and Selenge aimags.

	Nur	nber of new	borns	Total births				
Region	Total	Male	Female	Sex ratio	Percentage of low birth weight babies	Stillbirths /per 1 000 all births/		
Western region	9 647	5 071	4 576	110.8	4.8	7.3		
Central region	9 102	4 688	4 414	106.2	3.7	6.2		
Khangai region	12 520	6 404	6 116	104.7	4.0	4.6		
Eastern region	4 655	2 389	2 266	105.4	3.4	6.2		
Province average	35 924	18 552	17 372	106.8	4.1	5.5		
Ulaanbaatar	38 404	19 986	18 418	108.5	5.1	6.6		
National avorage	7/ 229	29 529	25 700	107.7	16	6.0		

Table 3.6.1 Data on newborns by region, 2017

In 2017, 74 328 live births were recorded at the national level, which decreased by 3 866 newborns or 5.2% compared to the same period of the previous year. 4.6% of total newborns had birth weight lower than 2500 grams. Out of all live births, there were 1717 twins and 36 triplets.

Stillbirths were 6.0 per 1000 births and of total 451 stillbirths were recorded, which decreased by 0.2% (36 cases) compared to the previous year.

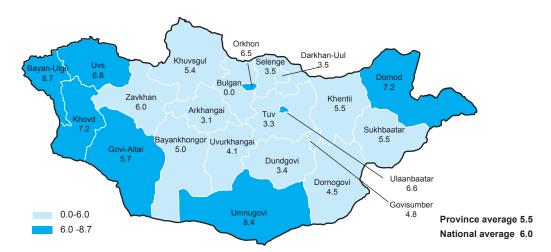


Figure 3.6.1 Stillbirth rate per 1 000 births, by province, 2017

Stillbirth rate in the Eastern and Stillbirth rate in Bayan-Ulgii, Dornod, Umnugovi and Khovd aimags was 7.2-8.7 per 1000 births, which is higher than the country average by 1.1-2.7 promile. For the Central region, stillbirth rate was estimated at 8.3 per 1000 births in Umnugovi aimag, which was higher than the regional average by 2.2 promile. Stillbirth rate in Khangai and Central regions was lower than the country as well as aimags average. Of stillbirths, 52.5% were boys. The sex ratio at birth was 107.7. A total of 0.6% live births were recorded with congenital abnormalities. The incidence of congenital abnormalities was estimated at 5.8 per 1 000 total births. In 2017, active monitoring rates of infants and children under-five years were 99.7% and 74.8% respectively. Total of 20 663 neonatal morbidity cases were registered in 2017, which is accounted for 27.8% of all live births.

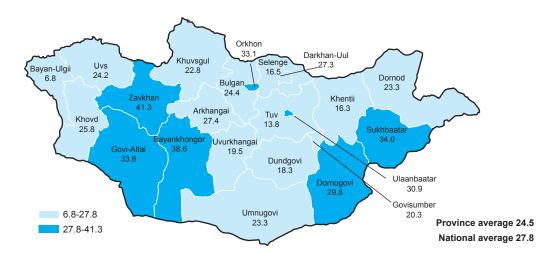


Figure 3.6.2 Percentage of neonatal morbidity rate in live births, by province, 2017

Table 3.6.2 Neonatal morbidity rate, 2017

	Total			tious and arasitic		eases of atory system		ses of digestive system		Injurios maisoning acetain	
	noonatal	Perinatal pathology	Total	Congenital syphilis	Total	Pneumonia	Total	Non-infectious diarrhea	Congenital abnormalities	Injuries, poisoning, certain other consequences of external causes	Other diseases
Province average	8704	6317	14	12	1099	334	137	98	207	4	1013
Ulaanbaatar	8465	10065	19	19	428	150	100	9	462	11	728
National average	20663	16382	33	31	1527	484	237	107	669	15	1741

Fetal asphyxia and neonatal jaundice were the disorders in the perinatal period, which occurred 6.8% and 46.4% of neonates respectively.

Total of 2 674 congenital abnormalities were registered among infants and the most common types of congenital anomalies were congenital heart defects /35.7%/, cleft lip and cleft palate /10.6%/, anomalies of digestive system /6.2%/ and deformities of hip /8.8%/.

Table 3.6.3 Causes of infant and under-five morbidity by percentage (urban and rural), 2017

	0-1 years old		under-5 years old		
	Urban	Rural	Urban	Rural	
Diseases of respiratory system	37.3	66.7	42.8	66.6	
Diseases of digestive system	10.3	10.1	12.0	13.7	
Conditions originating in the perinatal period	12.5	4.1	6.9	2.2	
Injuries, poisoning, certain other consequences of external causes	2.0	0.7	8.3	1.8	
Infectious and parasitic diseases	3.8	0.9	8.3	2.9	
Diseases of skin and subcutaneous tissue	8.2	4.3	10.5	5.3	
		1st leading cause			

2st leading cause
3st leading cause

Diseases of the respiratory system were the leading disorders among infants and children under-five year old in both urban and rural areas. Frequently occurring respiratory diseases were pneumonia-25.4%, acute bronchitis-21.0% and influenza, influenza-like illnesses-10.9%, respectively. Non-infectious diarrheal disease was accounted for 48.5% among diseases of the digestive system.

Table 3.6.4 The leading causes of morbidity among children and adolescents, by age group per 10 000 population, 2017

	1-4 years	5-9 years	10-14	15-19		
	old	old	years old	years old		
Diseases of respiratory system	5624.4	1721.4	1214.4	760.5		
Diseases of digestive system	1307.1	1549.5	1099.3	1063.9		
Infectious and parasitic diseases	545.5	187.0	100.3	186.3		
Injuries, poisoning, certain other consequences of external causes	489.0	357.2	466.0	495.7		
Diseases of urogenital system	196.7	213.6	255.6	510.0		
Diseases of skin and subcutaneous tissue	781.9	528.4	537.4	582.6		
		1st leading cause				
	2st leading cause					
		3st leading	cause			

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

As of 2017, there was a tendency to increase of morbidity of children and adolescents from the previous years. For instance, the incidence of the digestive system increased by 173.3-491.5 cases, for each age groups 1-4, 5-9, 10-14, 15-19, respectively.

The leading causes of morbidity among children of 1-4 years of age were non-infectious diarrhea 494.7, tooth decay 326.7 and other dental diseases 217.3, respectively per 10,000 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 545.8 and 636.2 per 10,000 children with matching age group.

3.7 INFANT AND UNDER-FIVE MORTALITY RATE

At the national level, 1 009 infant deaths were recorded in 2017, which are 13.6 per 1000 live births. It has decreased by 3.2 per 1000 live births compared to 2016. More than half, 64.1% of deaths in

infant mortality were occurred at the neonatal period and the neonatal mortality rate was 8.7 per 1000 live births.

Total of 647 cases, 475 cases (73.4 %) of neonatal deaths were occurred in the early neonatal period /first 0-6 days of life/, whereas 172 cases (26.6%) of neonatal deaths were occurred in the late neonatal period /first 7-28 days of life/. Sex ratio for infant mortality was 56.7% male and 43.3% female, respectively.

In 2017, 1 244 children aged under-five died and this is 16.7 per 1000 live births. Irrespective of the actual number of 384 deaths for children aged under-five were increased in comparison to 2016, it was increased by 4.1 promile per 1000 live births. Of total deaths, 18.0 were boys and 15.4 were girls per 1000 live births.

The following aimags including Arkhangai /20.5/, Uvurkhangai /20.2/, Umnugovi /20.0/, Sukhbaatar /20.4/, Uvs /22.1/, Khovd /22.2/, Khuvsgul /26.3/ and Khentii /24.9/ have higher children aged underfive mortality rate by 3.3-9.6 promile compared to the country and aimag average.

Table 3.7.1. Infant and under-five mortality rate by age and sex, 2017

	Male	Female	Total
Early neonatal mortality rate	282	193	475
Late neonatal mortality rate	94	78	172
Neonatal mortality	376	271	647
Under-five mortality rate	693	551	1 244
Number of live births	38 538	35 790	74 328

The leading causes of infant mortality were perinatal disorders.

Table 3.7.2 Causes of infant and under-five mortality by percentage (urban and rural), 2017

	5 (,,			
	ln:	fant	Unde	er-five		
	Urban	Rural	Urban	Rural		
Diseases of respiratory system	9.2	12.1	1.4	0.6		
Diseases of nervous system	11.6	20.6	3.6	3.8		
Conditions originating in the perinatal period	49.1	40.2	40.0	31.9		
Congenital abnormalities and chromosomal disorders	17.5	8.2	1.4	1.5		
Injuries, poisoning, certain other consequences of external causes	4.3	7.1	6.6	9.6		
		1st leading cause				

2st leading cause
3st leading cause

87.0% of deaths of children under-five were due to illnesses and 13.0% were due to accidents and injuries. Of all deaths, 73.2%, 21.9% and 4.9% have occurred in hospitals, at home and other places respectively. This shows that it is need to focus on improving active supervision and monitoring of childcare, and health education for children under-five years old.

3.8 ABORTION

In 2017, 17 530 cases of abortion were recorded with ratio of 235.8 per 1000 live births and 20.5 abortions per 1000 women of reproductive age. The abortion rate has increased by 786 cases or 4.3% compared to the previous year which corresponds to 9.6 per 1000 live births.

The abortion rate was higher by 63.8-233.8 promile compared to the country average in some areas namely, Umnugovi /469.6/, Dornogovi /304.9/, Uvs /299.6/ and Ulaanbaatar /329.7/.

Abortions performed in private hospitals have increased by 839 cases or 25.6 percent compared to the last year. Late abortion rate per 1000 live births was 10.5.

The abortion rates by age group were as follows: women aged under 20 years – 5.3%, 20- 34 years olds – 70.0% and over 35 years olds – 24.7%. Compared to the previous year, abortion rate among women aged under 20 years was increased 0.3 percent.

Percentage of women underwent abortion first time has increased by 4.4% (60 cases) compared to last year and 9.0% of women who had abortions never gave birth.

Total of 23 cases with abortion complications were recorded. These complications of the abortion were: bleeding due to weakening of uterine contractility 39.1%, an inflammation of the uterine appendages 39.1% and uterus punctured problem 17.4%, respectively

Table 3.8.1 Abortion by location, 2017

Nº	Type of the health facility	Number of recorded abortions	Percentage from total number of abortions
1	NCMCH	2 027	11.6
2	Maternity hospitals	8 340	47.6
3	District public health centres	91	0.5
4	Private clinics	3 273	18.7
5	RDTCs	1 156	6.6
6	Province general hospitals	2 571	14.7
7	Rural general hospitals	29	0.2
8	Inter-soum hospitals	13	0.1
9	Village health centre	0	0.0
10	Soum health centre	30	0.2
11	Other	0	0.0
	Total	17 530	100.0

3.9 USE OF MODERN METHODS OF CONTRACEPTION

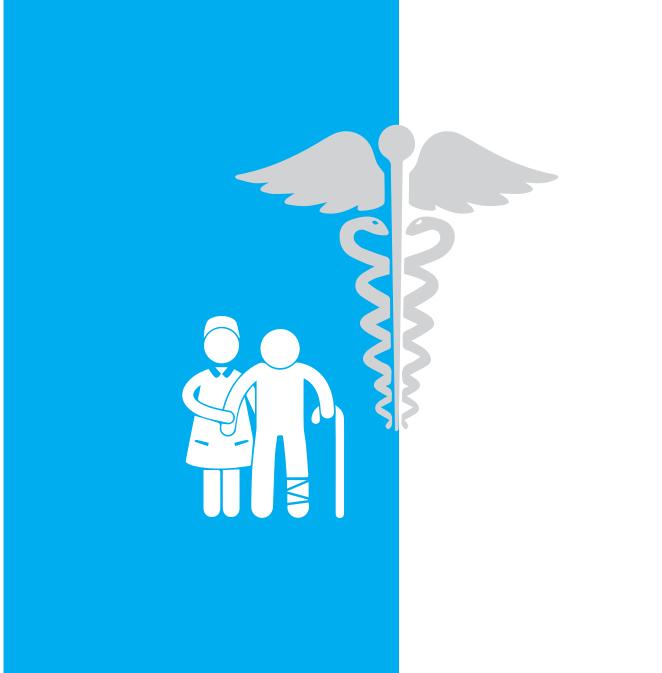
531 women out of 1000 reproductive age and 53.2% of women aged 15-49 years have used any contraceptive method.

Statistics on use of contraceptive methods were as follows: condoms – 27.5%, intrauterine devices – 27.3%, pills – 20.2%, injectable contraceptives -11.6%, Norplant – 2.4 %, sterilize -1.8 % and others -9.2%, 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. 16.2% of women who have been using contraceptive methods stopped using them and 1.1% of them got pregnant.

Table 3.9.1 Use of contraceptive methods by location, 2017

Nº	Location	Number of women using contraception	Percent
1	Ulaanbaatar city	219 781	48.3
2	Province centre	97 572	21.4
3	Soum centre	85 001	18.7
4	Bag	52 692	11.6
	Total	455 046	100.0



CHAPTER 4.

MEDICAL CARE SERVICE

CHAPTER 4.

MEDICAL CARE SERVICE

The health facilities system of Mongolia consists of state-owned, private and mixed-owned health facilities that are in charge of public health, medical care service, pharmaceuticals supply, health education, research and training.

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

This chapter describes the comparison between the official statistical information of medical care service and the structural and operational standard of health care facilities. The Mongolian health system has three levels of service delivery and medical care service policy is dedicated to be equitable, accessible and qualified to everyone

Family health centers, soum and village health centres, inter-soum hospitals, clinics, maternity hospitals, public health centres, general hospitals, sanatoriums, ambulances service centres, regional diagnostic and treatment centres (RDTCs), central hospitals and specialized medical centres are currently serving a medical care services.

In 2017, a total of 4 005 health facilities were operating and delivering health care services around the country, including 13 central and specialized hospitals, 5 RDTCs, 16 aimag general hospitals, 12 district general hospitals and public health centres (PHCs), 6 rural general hospitals, 39 inter-soum hospitals, 218 family health centres, 273 soum health centres, 240 private hospitals and 1 226 private clinics.

Table 4.1 Number of health organization, 2017

Health care providers	2000	2005	2010	2015	2016	2017				
I. State Property Health Organization										
Central and specialised hospitals	19	17	16	13	13	13				
Regional diagnostic and treatment centres	-	3	4	5	5	5				
Aimag, district general hospitals	30	30	35	34	34	28				
Inter-soum hospitals	13	31	37	39	39	39				
Soum health centres	334	287	274	272	273	273				
Village health centres	-	-	17	19	19	19				
II. Private health organization										
Private hospitals	466	683	1113	1230	1310	1466				
Family health centres	99	228	218	218	220	218				
Private pharmacies	321	514	666	967	1041	1277				

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.

As of 2017, 218 FHCs were operating in the country, out of them 133 FHCs providing health care services for 1 418.4 thousand people in Ulaanbaatar city and 85 FHCs providing health care services in 21 aimags for 703.8 thousand people.

Table 4.1.1 Some indicators of FHCs health care services. 2015-2017

	2015				2016		2017		
Т лєпүү г Ү	Ub city	Province	Total	Ub city	Province	Total	Ub city	Province	Total
Number of FHCs	129	89	218	133	87	220	133	85	218
Number of family doctors	622	329	951	633	335	968	647	338	985
Number of nurses	577	320	897	586	306	892	612	297	909
Number of outpatients	4 033 462	1 799 545	5 833 007	4 188 116	1 909 237	6 097 353	4 050 059	1 857 754	5 907 813
Percentage of preventive medical check-ups	43.0	37.1	41.2	43.7	37.4	41.7	42.7	38.8	41.5
Number of visits per person per year	2.9	2.6	2.8	3.0	2.7	2.9	2.9	2.7	2.8
Number of outpatient visits per physician	6484.7	5469.7	6133.6	6616.3	5699.2	6298.9	6259.8	5496.3	5997.8
Percentage of early antenatal care	84.0	82.3	83.6	84.9	81.3	83.1	87.0	83.9	85.5

Total of 2 738 health professionals were working in 218 FHCs, including 985 physicians and 909 nurses. However, the Structural and Performance Standards of FHCs are specified that one family doctor per 1800-2000 population. In fact, country average one family doctor served for 2 154 population in 2017. The number of people per one physician was met the standards in Bayankhongor, Govi-Altai, Zavkhan, Uvurkhangai, Umnugovi, Tuv, Khovd and Khentii aimags, but for other aimags the ratio was higher than the given standard.

In 2017, an average of 5.9 million medical examinations was done at the FHCs and in average one person had 2.8 visits to FHC a year for receiving health care services.

Out of total outpatient visits, 41.5% were preventive medical check-ups, reaching 42.7% in Ulaanbaatar

city and 38.8% in aimag FHCs, respectively. A number of preventive medical check-ups were decreased by 0.2% compared to the previous year. The Structural and Performance Standards for FHCs is specified that active visits to households should not be lower than 30%, but it stayed 28.1%, it was increased by 0.7% compared to 2017.

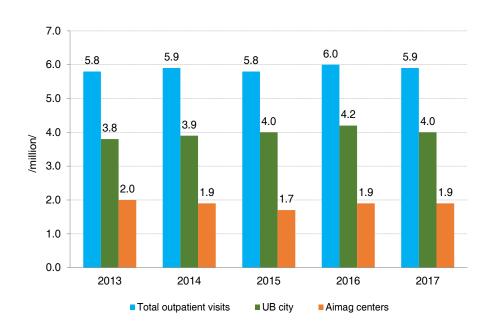


Figure 4.1.1 Number of outpatient visits performed by the FHCs /by million/

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 and 4.0 million in 2017, respectively. An average number of visits performed by one family doctor per year were 6 259 in Ulaanbaatar city and 5 496 in provincial level centres.

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, and depending on the number of residents and geographical location of a soum bag medical units could operate. Inter-soum hospitals provide health care services to the population of their own soum and neighbouring soums depending on the 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. The first category of SHCs deliver health care services up to 3 000 residents which service area is limited up to 50 km from province center.

The second category of SHCs deliver health care services up to 3 000 residents which service area is limited to 50-99 km from province center or accessible to province center up to 1-2 hours. The third category of SHCs or inter-soum hospitals deliver health care services up to 8 000 residents which service area is more than 100 km from province center.

However, SHC is located less than the 50 km from province center, is considered as second category

when providing a service more than 3 000 of the population or more than 70% of catchment population live far from soum center. When SHC is located less than the 100 km from province center, but providing a service more than 8 000 of the population, it is considered as third category. According to this standard, SHC's category is classified in the following table.

Table 4.2.1 Comparing characteristics between provision of physicians per SHC, inter-soum hospital and minimal level of standard, 2017

Grade	Number of	Average number of	Hospitals that meet the requirement		Hospitals failed to meet the requirement				
Grade	hospitals	physicians per hospital	Number	Percentage	Number				
I grade	19	1.9	15	78.9	4	21.1			
II grade	78	3.0	63	80.8	15	19.2			
III grade	176	2.7	141	80.1	35	19.9			
Inter-soum hospitals	39	6.0	7	17.9	32	82.1			

Figure 4.2.1 Average number of doctors per SHC and inter-soum hospital, 2017

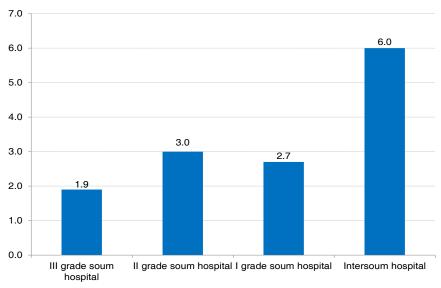


Table 4.2.2 Some indicators for quality and accessibility of health care services in SHCs and intersoum hospitals, 2014 and 2016

	20	15		20	17		
Indicator	Soum Inter- soum soum hospital		Total	Soum hospital	Inter- soum hospital	Total	
Number of hospital beds	2546	667	3213	3081	722	3803	
Numbe of doctors	661	224	885	755	235	990	
Number of nurses	1446	276	1722	1438	278	1716	
Average length of stay	6.9	6.7	6.9	6.9	6.6	6.8	
Number of inpatients	88386	19327	107713	93948	20211	114159	
Number of outpatients	1,554,484	428,561	1,983,045	1,731,055	370,403	2,101,458	
Number of check-ups	38.1	36.6	37.8	38.9	37.7	38.7	
Number of early antenatal coverage	86.8	87.9	86.9	89.0	88.8	88.9	
Maternal mortality rate /per 1 000 live births/	26.2	0.0	18.6	66.8	0.0	47.2	
Infant mortality rate /per 1 000 live births/	41.1	23.0	35.9	50.9	29.7	44.8	

15.9% of all hospital beds were accounted for SHC and inter-soum hospitals in 2017, and it has increased by 590 beds or 18.4% compared to 2015.

Total number of inpatients in SHC and inter-soum hospitals was 114.2 thousand people in 2017. The number of inpatients in SHC and in inter-soum hospitals has respectively increased by 4.6% and 6.3% compared to 2015.

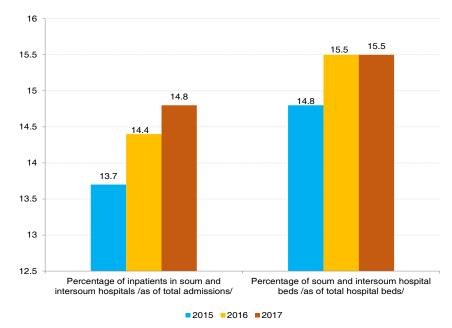


Figure 4.2.2 Number of patients and average length of stay of SHC and inter-soum hospitals, 2015-2017

The average length of stay was 6.9 days in 2015, but it has decreased to 6.8 days in 2017. An average number of visits per capita at the SHC and inter-soum hospitals were decreased to 2.1 in 2017 compared to 2.3 days in 2013.

In 2017, percentage of prenatal care was 88.9% at SHC and inter-soum hospitals, an increase by 2.0% compared to 2015. In 2017, there were 2 maternal deaths registered in SHCs and inter-soum hospitals, and the mortality rate was 47.2 deaths per 100,000 live births. As of 2017, infant mortality rate was 50.9 and 29.7 per 1000 live births in SHC and inter-soum hospitals respectively. And the infant mortality rate has increased by 8.9 compared to 2015.

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 2017, a total of 5 063 medical professionals including 1 113 doctors, 1 755 nurses and 659 other medical professionals and technical education staffs, were working in 16 aimag general hospitals. In total, 3 151 medical professionals including 840 doctors, 943 nurses and 323 other medical

professionals and technical education workers were working in district general hospitals and public health centers of the capital city Ulaanbaatar.

In 2017, there were 3 588 beds in aimag general hospitals which accounted for 15.1% of all hospitals beds and number of beds has increased by 210 compared to 2015.

The number of hospital beds in district general hospital and public health centers accounted for 10.0% of all hospital beds. And the number of inpatients at district general hospitals level was 93.4 thousand people in 2015, increasing this number by 18.9 thousand people making it 112.3 thousand in 2017.

Figure 4.3.1 Number of patients and percentage of bed capacity of secondary and tertiary level hospitals, 2017

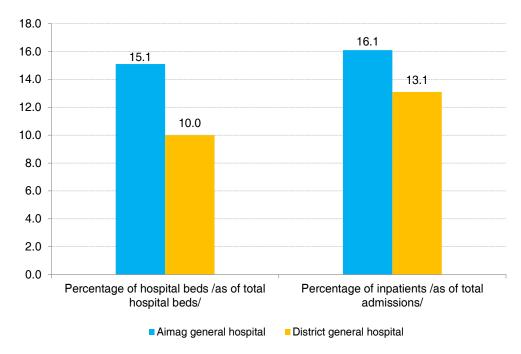


Table 4.3.1 Some indicators for quality and accessibility of health services in province and district general hospitals, 2015-2017

	20	15	20	16	20	17		or the last ears
Үзүүлэлт	Province general hospital	District general hospital	Province general hospital	District general hospital	Province general hospital	District general hospital	Province general hospital	District general hospital
Number of hospital beds	3378	2112	3613	2168	3588	2386	3526	2222
Number of physicians	1030	795	1071	813	1113	840	1071	816
Number of nurses	1725	891	1723	889	1755	943	1734	908
Average length of stay	7.4	7.0	7.3	6.8	7.2	6.7	7	7
Number of inpatients	135,033	93,403	142,658	109,579	138,161	112,314	138,617	105,099
Hospital deaths within 24 hrs of admission	32.4	30.9	31.3	25.0	35.1	30.9	33	29
Number of outpatients	1558984	2484337	1568529	2382470	1684014	2384420	1603842	2417076
Percentage of check-ups	31.1	39.3	30.8	36.3	30.3	38.1	30.7	37.9
Maternal mortality rate (per 100 000 live births)	16.9	-	42.5	-	19.3	-	26.2	-
Infant mortality (per 1 000 live births)	11.7	-	14.1	-	9.5	-	11.8	-
Number of referrals	13.5	-	17.1	-	15.4	-	15.3	-

In 2017, the average length of stay decreased in aimag general hospitals by 0.2% and in district general hospitals by 0.3% compared to 2015.

In 2017, the percentage of deaths occurring within 24 hours of admission in aimag general hospitals increased by 2.7% compared to 2015, and the number was higher than the average of the last 3 years by 2.1%..

In 2017, the number of outpatients at aimag general hospital level was 1.6 million and district general hospital level was 2.3 million.

The percentage of preventive medical check-ups at aimag general hospitals and district general hospitals was lower than the average of the last 3 years by 0.4% and 0.8%, respectively.

The infant mortality rate at aimag general hospitals level was estimated at 11.7 per 1000 live births in 2015. The rate was reached to 9.5 per 1000 live births in 2017, which decreased by 2.3 deaths compared to 2015 and the average of the last 3 years.

In 2017, the maternal mortality rate was 19.3 per 100,000 live births at aimag general hospitals level, which decreased by 23.2 compared to the previous year and by 6.9 compared to an average of the last 3 years.

In the last three years, the number of inpatients referred from SHC and inter-soum hospitals accounted for 15.3% of total inpatients in aimag general hospitals. In 2017, the number of inpatients referred from SHC and inter-soum hospitals increased by 1.7% compared to 2016.

4.4 REGIONAL DIAGNOSTIC AND TREATMENT CENTERS MEDICAL CARE SERVICES

The regional diagnostic and treatment centres (RDTCs) 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 2017, aimag general hospitals in Orkhon, Dornod, Uvurkhangai, Khovd and Umnugovi aimags were functioning under the status of RDTCs at the national level. A total of 1 957 medical personnel including 457 doctors, 714 nurses and 260 technical education and medical professional staffs were working at RDTCs.

Table 4.4.1 Selected	indicators for quality	and accessibility of RDT	Cs services, 2015-2017
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Indicators		Average for the		
mulcators	2015	2016	2017	last 3 years
Number of hospital beds	1484	1539	1681	1568
Average length of stay	7.6	7.5	7.2	7.4
Percentage of deaths occurred within 24 hrs of admission	29.0	30.0	30.3	29.8
Number of inpatients	55769	57050	54794	55871
Number of outpatients	556035	544285	611328	570549
Maternal mortality rate (per 100 000 live births)	20.7	62.7	21.9	35.1
Infant mortality rates (per 1 000 live births)	8.8	11.3	8.4	9.5
Percentage of inpatients referred form the lower level of care	28.1	26.0	26.5	26.9

In 2017, total of 54.7 thousand inpatients were admitted to RDTCs and in average 14 503 patients were treated annually at the RDTCs referred from soum health centers, inter-soum hospitals and regional aimag general hospitals which accounted for 26.5% of the total inpatients.

The average length of stay at RDTC was 7.2 in 2017, which decreased by 0.2, compared to an average of the last 3 years. The percentage of deaths within 24 hours of admission was 30.3 percent in 2017, which decreased by 0.5% compared to an average of the last 3 years.

In reference to decreasing tendency of infant mortality rate in the country for last years, an average infant mortality rate was 9.5 per 1000 live births in RDTCs in 2015-2017, which is lower compared to the aimag average. In 2017, there were 2 maternal deaths (21.9 per 100,000 live births) registered in the RDTCs including in Umnugovi and Khovd aimags 1 cases, respectively.

Tahla	117	RDTCc	HR	indicators	2017
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Nº	Province	Total number of employees	Doctors	Nurses	Medical professional and technical education, all other employees	Number of beds
1	Dornod	496	104	172	73	336
2	Orkhon	479	107	205	54	434
3	Uvurkhangai	361	90	120	54	305
4	Umnugovi	218	56	68	33	348
5	Khovd	403	100	149	46	258
Tota	al	1957	457	714	260	1681

Table 4.4.3. Selected indicators of RDTCs medical care services, 2017

Province	Number of inpatients	Bed days	Average length of stay	Hospital deaths within 24 hrs of admission	Outpatient visits	Maternal mortality rate /per 1 00000 live births/	Infant mortality rate /per 1 000 live births/	Under-five mortality rate /per 1 000 live births/	Stillbirth
Dornod	11 587	88 910	7.7	34.1	135 221	0.0	7.5	8.5	5.8
Orkhon	14 525	100 977	7.0	35.0	143 778	0.0	3.5	3.5	6.6
Uvurkhangai	9 632	73 925	7.7	17.7	111 364	0.0	12.4	14.1	4.5
Umnugovi	7 070	48 525	6.9	43.4	97 585	94.3	9.4	10.4	8.4
Khovd	11 980	84 389	7.0	18.0	123 380	53.9	11.9	12.9	7.0
Total	54 794	396 726	7.2	30.3	611 328	21.9	8.4	9.3	6.3

4.5. CENTRAL HOSPITALS AND SPECIALIZED CENTERS MEDICAL CARE SERVICES

Central hospitals 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.

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

As of 2017, a total of 5 896 health professionals were worked in Central hospitals and specialized centers, including 1 225 medical doctors, 1 943 nurses and 489 professional and technical education medical staffs, respectively.

16.5% of all hospital beds and 17.5% of inpatients were accounted for central hospitals and specialized centres. The average length of stay in 2013 was 9.5 days, which decreased to 8.6 days in 2017.

Furthermore, the percentage of total in-hospital deaths occurring within 24 hours after admission decreased from 24.5% in 2013 to 18.1% in 2017, making the average over the last three years is 19.6%.

Table 4.5.1. Quality and accessibility indicators of medical care services in central hospitals and specialized centers, 2015-2017

Indicator		Years		Average for the
indicator	2015	2016	2017	last 3 years
Number of hospital beds	3837	3937	3941	3905.0
Number of doctors	1221	1217	1225	1221.0
Number od nurses	1912	1917	1943	1924.0
Average length of stay	8.9	8.7	8.6	8.7
Percentage of deaths occurred within 24 hrs of admission	20.5	20.3	18.1	19.6
Number of inpatients	141 977	146 033	149 647.5	145 885.8
Number of outpatients	1 279 401	1 285 282	139 8742	1 321 141.7
Percentage of inpatients referred form the lower level of care	30520	44040	30283	34947.7

Within the last 3 years, an average of 145.8 thousand patients hospitalized in central hospitals and specialized centers, out of them 24.0% patients were referred from countryside. Compared to 2013, the total number of inpatients has increased by 2.2% in 2017.

Figure 4.5.1. Referral percentage of patients from countryside to central hospitals and specialized centers, 2017

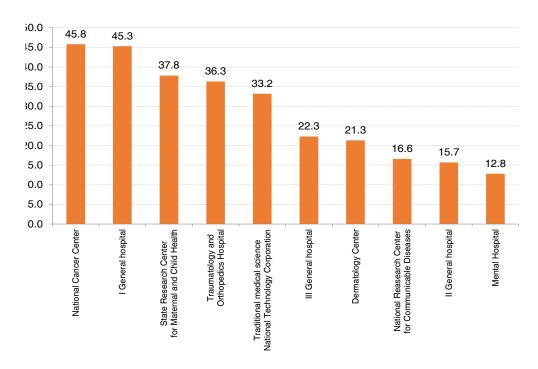


Table 4.5.2. Selected indicators for the central hospitals and specialized centers, 2017

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	314 321	22 850	7.0	14.4
II State Central Hospital	132 556	9 126	7.4	27.4
III State Central Hospital	174 413	19 491	7.4	11.7
National Centre for Mother and Child	210 243	40 300	6.4	4.3
National Cancer Center	98 693	11 577.5	6.8	19.5
National Infectious Diseases Center	155 107	10 904.5	11.6	15.2
National Traumatology and Orthopaedics	131 862	15 254	9.1	28.9
National Center for Dermatology	92 912	5 689	9.2	0.0
National Center for Mental Health	48 884	6 595	28.0	20.0
Sanatorium for children	709	1 510.5	18.0	0.0
Triditional Medicine, Technology and Production National Corporation	16 462	6 350	7.1	100.0
Center of Forensic Medicine	15 195	0	0.0	0.0
National Gerontological Center	22 580	0	0.0	0.0

4.6. PRIVATE HOSPITALS AND CLINICS MEDICAL CARE SERVICES

As of 2017, a total of 9 709 health professionals were worked in 240 private inpatient hospitals and 1 226 private outpatient clinics, including 3 298 physicians, 2 322 nurses respectively.

Table 4.6.1 Selected indicators for medical care services of private hospitals and clinics, 2017

	2000	2005	2010	2011	2012	2013	2014	2015	2016	2017
Private hospitals	466	160	166	171	179	197	202	224	234	240
Private clinics		523	947	1013	851	822	969	1006	1076	1226
Number of beds	964	1 982	2 527	3 069	3 606	3 829	4 542	5 262	5 611	5756
Percentage form all hospital beds	5.4	10.8	14.2	16.2	18.4	19.3	22.1	24.2	24.4	24.1
Number of doctors	736	1 145	1 549	1 677	1 904	1 965	2 368	2 698	2 935	3298
Number of nurses	296	682	1 007	1 135	1 275	1 326	1 742	1 941	2 046	2322
Outpatient visits	-	1 016 705	1 036 934	1 986 901	1 320 932	1 756 769	1 786 670	1 912 718	2 063 450	2,269,110
Number of inpatients	23 592	63 267	86 117	97 821	111 338	121 452	124 610	142 052	159 194	167,957
Average length of stay	11.3	9	7.9	8.2	7.7	7.4	7.3	7	7.2	7.0

The number of private hospital beds was 2 527 in 2010, and the number has increased to 5 756 beds in 2017, which accounted for 24.1% of all hospital beds in the country.

Since 2005, the establishment of new private hospitals, especially with hospital beds has been restricting when types of services provided by these private hospitals were similar to services provided by state hospitals. However, if the types of services they deliver are complementary to existing public services health policy has been focusing on expanding activities of these private hospitals and supporting the establishment of diversifications.

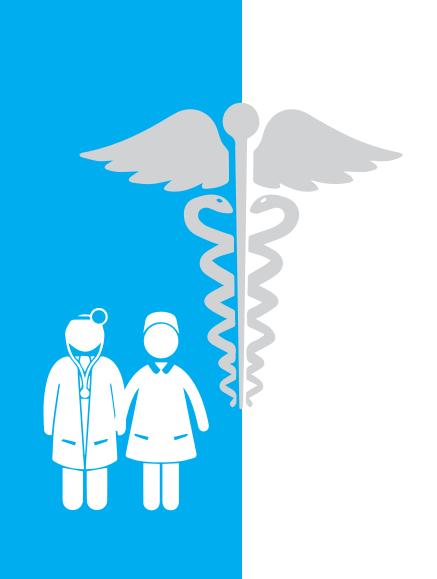
In 2010, a total of 1 036 934 patients received outpatient services and there were 86 117 inpatients at the private hospitals, but in 2017, the number increased to 2 269 110 and 167 957 respectively. In 2017, by looking at the type of medical specializations for private hospitals were as follows; 41.2% an internal medicine, 11.4% neurology, 13.7 % traditional medicine, 8.1% gynaecology, 6.4% surgery and 5.1% pediatrics, respectively.

Table 4.6.2. Bed capacity of private inpatient hospitals, 2017

Indicators	Number o	f hospitals	Number of inpatients		
indicators	Number	Percent	Number	Percent	
5-8 beds	12	5.0	1 496	0.9	
10-12 beds	59	24.6	19 673	11.7	
15 beds	49	20.4	20 724.5	12.3	
20-25 beds	59	24.6	38 879.5	23.1	
30 beds	22	9.2	17 796.5	10.6	
40-50 beds	24	10.0	24 409	14.5	
50 beds	15	6.2	44 978	26.9	
Total	240	100.0	167 956.5	100.0	

Looking at the private hospitals by bed capacity, 5.0% of hospitals have 5-8 beds, 24.6% have 10-12 beds and 20.4% of hospitals have 15 beds.

The private hospitals with up to 15 beds accounted for 50.0 percent of total private pitals.



CHAPTER 5.

HUMAN
RESOURCES
IN HEALTH
SECTOR

CHAPTER 5.

HUMAN RESOURCES IN HEALTH SECTOR

In 2017, a total of 50.5 thousand healthcare employees were worked in public and private organizations of the health sector and this number has increased by 4.8% as compared to the previous year. Out of total health personnel, 92.8% employed by health sector and 7.2% of them represent health workers employed by other sectors.

Table 5.1. The number of health workers

Major	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total employees	37952	38704	39608	41124	43626	45090	46057	47429	48173	50519
Out: Fimale	31215	32112	32591	33834	35609	36271	37495	38737	39415	41481
Medical officer	393	771	616	717	806	791	799	871	863	1008
Pharmacists	1088	1088	1176	1284	1475	1596	1611	1504	1586	1938
Total-Physicians	7584	7140	7497	7943	8597	8911	8645	9563	10000	10576
Out: Fimale	5959	5648	5919	6284	6744	6893	7183	7376	7677	8127
General professional	758	873	736	794	840	983	1898	2012	2131	2174
Core and specialized professionals:	5538	5341	5825	6029	6484	6664	5313	5833	6040	6366
Internist	756	809	749	811	844	883	899	951	939	1024
Pediatric	572	565	494	523	577	597	624	706	705	741
Surgery and injuries and trauma	443	488	491	530	559	575	556	632	668	714
Intravenous and intensive care	242	233	254	265	280	296	224	252	278	292
Obstetrics and gynecology	599	607	608	625	672	682	661	721	759	783
Cancer	63	65	73	70	69	75	55	58	60	60
Neurologist	238	237	240	262	270	270	269	290	294	327
Mental	131	124	130	137	136	128	125	127	139	145
Ophtalmologist	120	130	139	137	133	150	133	147	157	179
Otorinolaryngologist	135	119	127	120	140	135	126	138	154	163
Dermatologist	107	75	61	58	56	89	137	145	130	153
Infectionist:	127	149	165	146	141	142	122	285	307	329
STI/AIDS	89	67	69	67	80	78	72	82	86	89
Tuberculosis	97	101	105	100	104	105	102	97	104	101
Rehabilitation	126	100	81	95	108	130	115	127	143	140
Phatogenist	65	85	76	64	94	97	61	91	98	90
X-ray diagnostic	262	261	270	282	304	344	347	416	429	448
Doctor laboratory	243	251	264	281	308	322	291	308	318	334
Other	1123	875	1429	1456	1609	1566	394	439	462	444
Traditional medicine doctor	341	339	348	411	477	464	554	700	780	841
Dentist	552	587	588	709	796	800	880	1018	1049	1195

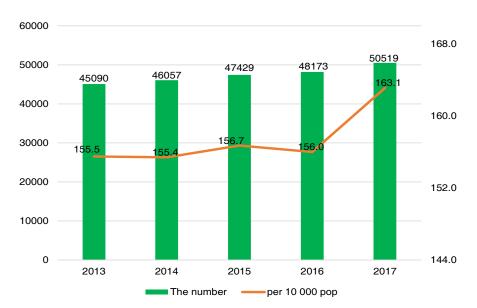


Figure 5.1.1. The number of health workers

The total number of health workers employed by health sector by level of care is as follows: 22.3% of them working in primary health care, 18.0% in secondary health care, 16.1% in tertiary health care settings, 18.1% in private hospitals and clinics, and 25.5% in maternity hospitals and other health care organizations, respectively. Of total healthcare employees, there were 10.5 thousand physicians, 1.9 thousand pharmacists, 11.9 thousand nurses and 7.7 other medical professionals and technical education staffs, respectively. By looking at occupation of health care personnel who provide medical services are as follows; physicians 20.9 %, nurses 23.6% and other medical professionals and technical education staffs 15.4 %, respectively. Women are accounted for 82.1% of all employees.

Table 5.2. The number of health workers, by occupation

Profession	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total	16047	15789	15828	16487	16871	17402	18317	18779	18913	19709
Feldsher	2480	2527	2589	2706	2242	2278	2628	2611	2550	2526
Laborant	836	879	900	931	960	1011	1047	1107	1151	1129
Pharmacist	1899	1944	2030	2078	2270	2404	1840	1819	1790	1982
Nurses	8912	9017	9179	9420	9916	10150	10948	11357	11486	11939
Technician	341	340	349	362	392	388	469	510	519	613
Midwives	693	668	697	723	768	814	888	916	940	963
Other	518	414	84	267	323	357	497	459	477	557

As of 2017, a total of 10 576 physicians were working in the nationwide and the majority of them or 76.8% were women. Out of them, a total of 8 540 medical doctors/general practitioners were working and 74.5% of them were providing basic and specialized health care services. There were 841 traditional medicine doctors and 1195 dentists. 60.8% and 39.2% of all physicians were working in Ulaanbaatar city and in rural areas, respectively. By age groups, there were 29.7% of age 20-29 years, 30.2% of age 30-39 years, 18.5% of age 40-49 years, 9.5% of age 50-54 years, 7.6% of age 55-60 years and 4.5% of age above 60 years, respectively. Out of total physicians and nurses, 20.1/24.0% of them were working in the primary level, 20.3/27.9% in the secondary level and 16.7/ 22.8% in the tertiary level respectively. As of 2017, an average number of population per a physician was 293 and an average number of population per a nurse was 259, and the numbers have decreased by 16 and 10 persons, respectively as compared to the previous year. The average number of population per a physician was 449 in the Khangai region as reported at the highest, and this number was 409 in the

Western region, 415 in the Eastern region and 369 in the Central region.

In Ulaanbaatar city, the number of persons per a physician was 218 and the number of persons per a nurse was 222, respectively. In the Khangai region, the number of persons per a nurse was estimated at 314 which reported as the highest compared to other regions.

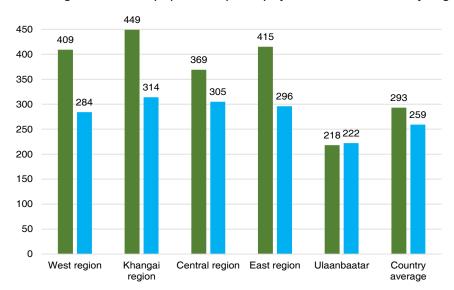


Figure 5.1.2. The average number of population per a physician and nurses, by region, 2017

As of 2017, there were 34.1 physicians, 38.5 nurses and 25.1 other medical professionals and technical education staffs per 10 000 population, respectively. The total number of physicians and nurses per 10 000 population has increased by 1.7 and 0.3, respectively as compared to 2016. In regard to the numbers of physicians per 10 000 population by specialization were as follows: there were 3.9 dentists, 3.3 internists and 2.7 traditional medicine doctors per 10 000 population. As of 2017, a total of 741 pediatricians were working in the country, giving of 7.8 pediatricians per 10 000 children. And there were 784 obstetric and gynecologists which accounted at 4.9 doctors per 10 000 women.

Table 5.3. The number of doctor and nurse, by region /per 10 000 pop/ 2016-2017

Aimag/city	Per 10 000 population physicians		Per 10 000	population		physicians loctor	Number of per-nurse	
Airiag/city	2016	2017	2016	2017	2016	2017	2016	2017
National average	32.4	34.1	37.2	38.5	309	293	269	259
Western region	23.6	24.4	35.8	35.2	425	409	279	284
Bayan-Ulgii	18.6	20.2	30.7	31.5	539	495	325	318
Govi-Altai	31.4	32.8	44.9	44.5	319	305	223	225
Zavkhan	25.9	25.3	39.9	38.1	386	395	251	263
Uvs	21.0	20.6	34.6	31.6	477	485	289	317
Khovd	24.8	26.8	33.7	34.6	404	374	297	289
Khangai region	22.4	22.3	32.2	31.8	447	449	311	314
Arkhangai	19.9	18.3	29.8	29.0	503	548	335	345
Bayankhongor	20.6	21.7	34.6	34.0	485	461	289	294
Bulgan	19.9	19.8	32.2	31.5	503	505	311	317
Orkhon	32.1	31.9	41.3	41.3	312	313	242	242
Uvurkhangai	22.6	22.5	29.1	28.6	442	445	344	350
Khuvsgul	18.6	19.0	27.9	28.2	539	526	359	355
Central region	26.6	27.1	32.4	32.8	375	369	309	305
Govisumber	31.1	33.2	37.1	39.0	322	301	270	256
Darkhan-Uul	28.0	27.2	36.6	35.6	357	368	273	281
Dornogovi	33.9	32.9	34.3	37.7	295	304	291	265

Dundgovi	28.7	30.7	34.1	32.4	348	326	293	308
Umnugovi	29.1	29.2	29.0	27.1	343	342	345	369
Selenge	22.0	22.8	27.7	30.6	455	438	361	326
Tuv	21.9	23.3	32.4	31.5	457	430	309	317
Eastern region	23.4	24.1	34.6	33.8	427	415	289	296
Dornod	22.6	23.3	35.6	35.2	443	430	281	284
Sukhbaatar	25.6	25.2	36.0	35.4	391	397	278	282
Khentii	22.6	24.1	32.4	31.0	443	416	309	322
Ulaanbaatar	42.2	46.0	41.6	45.1	237	218	240	222

The physician to nurse ratio was 1.0:1.1 at the national level, 1.0:0.9 in Ulaanbaatar city and 1.0:1.4 in the aimag level respectively.

Looking by geographical distribution (location) of health professionals, there were 46.0 doctors and 45.1 nurses per 10 000 population in Ulaanbaatar city, while 24.4 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. Particularly, the number of surgeons were 2.3 times, trauma and orthopedic specialists were 2.7 times, and radiology and lab specialists were 3.1-3.6 times higher in Ulaanbaatar city than in other rural areas.

Table 5.4. The nember of physician, by region.

Aimag/city	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
National average	7584	7140	7497	7943	8597	8911	9300	9563	10000	10576
Western region	642	604	658	680	742	761	791	862	923	971
Bayan-Ulgii	141	132	144	145	145	149	156	166	186	203
Govi-Altai	113	115	124	138	149	157	161	172	177	187
Zavkhan	126	118	120	128	143	150	153	161	182	181
Uvs	138	116	122	120	136	138	143	169	170	169
Khovd	124	123	148	149	169	167	178	194	208	231
Khangai region	990	880	935	973	1038	1083	1125	1183	1297	1313
Arkhangai	146	125	136	143	147	151	160	167	184	172
Bayankhongor	123	104	111	125	134	146	165	159	174	187
Bulgan	110	94	91	101	108	101	106	111	120	122
Orkhon	252	224	246	252	257	268	259	267	325	325
Uvurkhangai	186	173	176	180	194	213	218	248	255	258
Khuvsgul	173	160	175	172	198	204	217	231	239	249
Central region	997	943	958	989	1032	1126	1149	1220	1303	1347
Govisumber	43	41	39	45	48	56	58	56	52	57
Darkhan-Uul	237	231	231	242	248	250	252	263	284	274
Dornogovi	190	178	184	179	183	205	196	210	223	222
Dundgovi	93	91	88	84	99	106	111	123	128	141
Umnugovi	109	106	117	119	135	147	159	170	182	189
Selenge	187	165	161	166	160	182	189	209	235	246
Tuv	138	131	138	154	159	180	184	189	199	218
Eastern region	393	385	381	394	426	446	442	464	491	516
Dornod	133	138	134	138	159	172	170	169	174	183
Sukhbaatar	110	101	106	112	115	121	121	140	152	153
Khentii	150	146	141	144	152	153	151	155	165	180
Ulaanbaatar	4562	4328	4565	4907	5359	5495	5793	5834	5986	6429

In 2017, a total of 1 938 pharmacists were working in the nationwide, of which 3.6 and 9.5 per 10 000 population were in rural areas and in Ulaanbaatar city, respectively /the country average is 6.3/.

Out of all pharmacists, 76.0% were working in private drug stores, 5.2% in tertiary health care settings, 3.6% in secondary health care settings and 1.3% in primary health care settings, respectively.

The average number of population per a pharmacist was 2812 in rural areas and was 1048 in Ulaanbaatar city /the country average is 1598/.

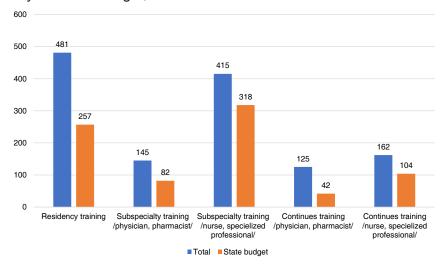
Table 5.5. Number of pharmacists, by region

Aimag/city	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
National average	1088	1088	1176	1284	1475	1596	1611	1504	1586	1938
Western region	43	42	46	58	69	77	96	117	143	154
Bayan-Ulgii	8	7	10	9	10	13	19	26	27	28
Govi-Altai	5	6	10	10	11	15	16	20	24	23
Zavkhan	10	9	10	12	13	14	21	19	25	33
Uvs	11	11	9	9	15	15	20	28	31	29
Khovd	9	9	7	18	20	20	20	24	36	41
Khangai region	84	64	103	88	104	108	134	159	183	201
Arkhangai	11	6	13	11	11	12	18	24	18	21
Bayankhongor	7	8	11	12	13	13	18	18	19	19
Bulgan	8	3	8	7	6	10	11	12	13	14
Orkhon	38	29	46	33	42	42	42	51	74	75
Uvurkhangai	9	8	13	12	16	16	23	27	31	33
Khuvsgul	11	10	12	13	16	15	22	27	28	39
Central region	74	72	79	108	123	131	139	163	180	194
Govisumber	3	2	5	5	7	7	6	8	6	6
Darkhan-Uul	14	21	22	41	49	50	54	61	60	62
Dornogovi	17	18	17	20	22	19	22	26	30	28
Dundgovi	3	2	2	4	8	8	8	12	16	14
Umnugovi	13	14	15	17	16	17	21	25	29	35
Selenge	16	8	11	12	12	16	15	18	24	27
Tuv	8	7	7	9	9	14	13	13	15	22
Eastern region	20	21	23	26	26	32	34	40	43	55
Dornod	8	5	6	6	5	10	13	16	18	23
Sukhbaatar	5	5	6	7	9	10	9	9	9	10
Khentii	7	11	11	13	12	12	12	15	16	22
Ulaanbaatar	867	889	925	1004	1153	1248	1208	1025	1037	1334

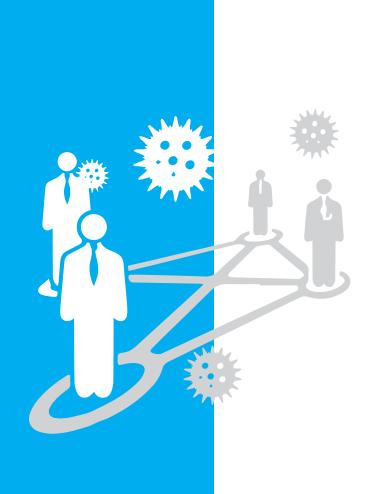
Postgraduate training for medical professionals

In 2017, 257 medical doctors have completed general practitioners trainings, 90 medical doctors have attended in specialized qualification trainings and 318 nurses and other medical professionals have completed advanced professional trainings, financed by the state fund, Government of Mongolia.

Figure 5.1.6. The number of physician, nurses and specialized qualifications, by advanced professional training, financed by the state budget, 2017



In 2017, total of 1 654 doctors, nurses and other medical professionals have completed the postgraduate trainings financed by the state budget. The number of medical professionals who participated in different types of trainings are presented as follows: 1 328 in general practitioners, specialized qualifications and advanced professional trainings, 95 in health management trainings, 126 in foreign trainings, 105 in distance learning trainings, respectively.



CHAPTER 6.

COMMUNICABLE DISEASES

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COMMUNICABLE DISEASES

6.1. TOTAL COMMUNICABLE DISEASES

In 2017, a total of 44 300 cases with 28 different types of communicable diseases were reported (144.9 per 10 000 population) at the national level, which decreased by 25 363 cases or by 82.9 per 10 000 population as compared to the previous year.

Compared to the previous year, the incidence of certain communicable diseases such as varicella, shigellosis, enteroviral infections, syphilis, scarlet fever, tick-borne rickettsioses, fungal infections, infectious diarrhea, erysipelas, gonococcal infection, congenital syphilis, acute hepatitis A, tick-borne encephalitis, salmonella infections, meningococcal infections and plague increased by 0.2-31.5 cases per 10 000 population at the national level.

The incidence of reported communicable diseases in 2017 was higher than the national average /144.9 per 10 000 population/ in Dornod, Sukhbaatar aimags and in Ulaanbaatar city. 59.9% of all communicable diseases at the national level were registered in Ulaanbaatar city.

Of total registered cases of communicable diseases in 2017, 35.7 percent is respiratory infectious diseases, 34.7 percent is sexually transmitted infections, 23.8 percent is intestinal infections, 0.9 percent is blood-borne infections, 1.4 percent is zoonotic bacterial diseases and 3.5 percent is other infections.

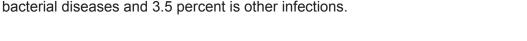
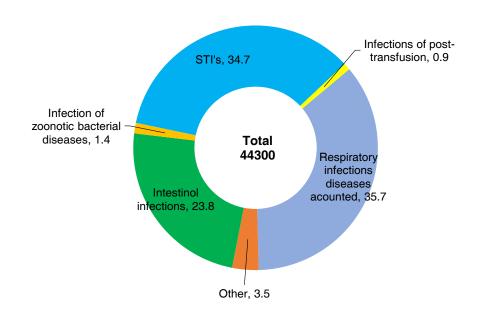


Figure 6.1.1. Total communicable diseases registered at national level, 2017



6.2 INTESTINAL INFECTIOUS DISEASES

In 2017, a total of 10 549 cases with 7 different types of intestinal infectious diseases including acute hepatitis A, shigellosis, bacterial foodborne intoxications, salmonella infections, diarrhoea and gastroenteritis of presumed, and hand-foot-mouth disease were registered at the national level, accounted for 23.8% of all communicable diseases. 7 948 cases (75.3%) of intestinal infections were registered in Ulaanbaatar city.

The reported intestinal infectious diseases were as follows: acute hepatitis A (0.4%), shigellosis (38.2%), hand-foot-mouth disease (57.4%), bacterial foodborne intoxications (1.3), salmonella (0.9%), and diarrhoea and gastroenteritis of presumed (0.9%).

Increase/ 2016 2017 Infectious diseases decrease Per 10 000 Per 10 000 /ICD-10/ **Absolute Absolute** Per 10 000 population number population number population Typhoid and paratyphoid fever 0 0.0 0 0.0 0.0 Salmonella infections 181 0.6 185 0.6 0.0 Shigellosis 2848 9.3 4026 13.2 3.9 Other bacterial foodborne intoxications 430 1.4 133 0.4 -1.0 Diarrhea infections 0.1 103 0.3 0.2 19 Viral hepatits A 39 0.1 51 0.2 0.1

Table 6.2.1. Number of cases of intestinal infections per 10 000 population, 2016-2017

6.2.1. OTHER BACTERIAL FOODBORNE INTOXICATIONS

5569

In 2017, a total of 133 cases or 0.4 per 10 000 population of other bacterial foodborne intoxications were registered at the national level, accounted for 1.2% of all intestinal infectious diseases. Of the total number of other bacterial foodborne intoxications, 89 cases (66.9%) were registered in Ulaanbaatar city and the rate was 0.6 per 10 000 population.

18.2

6051

19.8

1.6

In 2017, the incidence of these infections decreased by 297 cases in Ulaanbaatar city, compared to the previous year. For the past decade, the highest rates of other bacterial foodborne intoxications were reported in 2008 and 2012.

In 2017, the incidence rate of bacterial foodborne intoxication per 10 000 population was 1.7 in Darkhanuul, 1.0 in Umnugovi, 0.8 in Bayan-Ulgii, 0.8 in Bayankhongor, 0.3 in Orkhon and 0.6 in Ulaanbaatar city. Looking by monthly, the most cases of other bacterial foodborne intoxications occurred in May and the fewest occurred in June and July. Incidence of the disease has been reported among all age groups, however, the highest incidence was reported among children 1-4 and 5-9 years old. By sex distribution, 58.6% of cases were females.

/Source: Annual report 2017, NCCD/

6.2.2 HAND-FOOT-MOUTH DISEASE

Hand-foot-mouth disease

In 2017, a total of 6 051 cases, giving a rate of 19.8 per 10 000 population of hand-foot-mouth disease were registered at the national level, which has increased by 1.6 per 10 000 population as compared to the last year. The morbidity of hand-foot-mouth disease accounted for 13.7% of all communicable diseases and 57.4% of all intestinal infections.

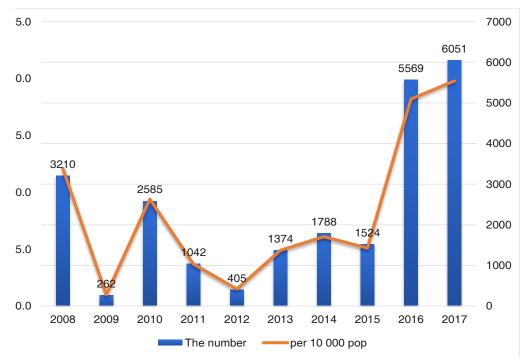


Figure 6.2.1. Incidence of hand, foot and mouth disease, per 10 000 population, 2008-2017

Several outbreaks of hand-foot and mouth disease occurred in the country in 2008, 2010, 2014, 2016 and 2017. The highest incidence rate was reported in 2017.

In 2017, the case rate was higher than the country average /19.8/ in the following aimags: Dornod 51.3, Sukhbaatar 47.4, Umnugovi 29.7, Govi-Altai 28.8, Dundgovi 23.6 and Ulaanbaatar city 30.6 per 10000 population. Compared to the same period of last year, the case rate decreased by 0.2-4.8 per 10 000 population in Khovd, Bayan-Ulgii, Bulgan and Bayankhongor aimags. A total of 4 274 cases or 30.6 per 10 000 population of hand-foot-mouth disease were registered in Ulaanbaatar city, which decreased by 1.8 per 10 000 population, compared to the previous year.

The incidence rate of hand-foot-mouth disease in 2017 was higher than the previous 3-year average rate and also higher than 2016's rate. In 2017, number of cases has increased significantly from March and decreased from June.

By age distribution, the disease affected the children particularly, with 82.3% of cases being in those children 0-4 years old. By sex distribution, 56.1% of the hand-foot-mouth cases were males and 43.9% were females. Out of all cases of hand-foot-mouth diseases, 54.1 percent were children at home and 37.1 percent were kindergartens.

/Source: Annual report, NCCD/

6.2.3. VIRAL HEPATITIS

A total of 534 new cases of viral hepatitis were registered at the national level, which accounts for 1.2% of all communicable diseases. The incidence decreased by 32 cases as compared to the previous year. Out of all viral infections, 9.6% was viral hepatitis A, 56.9% was viral hepatitis B, 16.7% was viral hepatitis C and 17.0% was other viral hepatitis. The incidence rates of hepatitis A increased by 0.1 and rates of hepatitis B decreased by 0.2 per 10 000 population respectively, compared to the same period of the previous year. Over the last decade it is seen that the highest rate of viral hepatitis A was 52.6 per 10 000 population in 2011.

In 2017, the incidence rates of viral hepatitis were higher than the country average in the following aimags: Umnugovi 2.8, Uvs 2.6, Ulaanbaatar city 2.3, Bayankhongor 2.3, Dornod 1.8 and Dundgovi

1.8 per 10 000 population.

Nationally, the incidence of viral hepatitis for over the last decade it is seen that the highest rate (peaks) was observed in December 2007, 2010 and in November 2011.

Since 2012, the incidence rate has decreased steadily. By the age groups, the incidence of acute viral hepatitis A was higher among 2-9 and 0-15 years old, viral hepatitis B was higher among 15-34 years old and viral hepatitis C was higher among 25-54 years old, respectively.

2016 2017 Increase/decrease **Province Absolute** Per 10 000 **Absolute** Per 10 000 Per 10 000

Table 6.2.3.1 Viral hepatitis, per 10 000 population by province higher than national average, 2016-2017

number population number population population Umnugovi 17 2.8 17 2.8 0.0 21 2,6 1.0 Uvs 13 1,6 Ulaanbaatar 350 2.5 327 2,3 -0.2 2,3 0.2 Bayankhongor 21 19 18 Dornod 10 1,3 14 1.8 0.5 8 1.8 0.7 Dundgovi 5 1.1 Darkhan-Uul 24 2.4 17 1.7 -0.7 National average 566 1.9 534 1.7 -0.2

6.2.3.1 Viral hepatitis A

In 2017, a total of 51 cases or 0.2 per 10 000 population of acute viral hepatitis A were registered at the national level, and the rate has increased by 0.1 per 10 000 population as compared to the previous year. Over the last decade it is seen that the highest rate of acute hepatitis A was 49.0 per 10 000 population in 2011.

In 2017, the incidence rates of acute viral hepatitis A were higher than the country average /0.1/ in the following aimags: Dundgovi 0.7, Uvs 0.5, Dornod 0.4, Khuvsgul 0.3, Umnugovi 0.3 and Sukhbaatar 0.3 per 10 000 population.

In terms of social status, incidence of viral hepatitis A was higher among pupils, employees and officers. 41.2% of total cases were registered among school pupils and the rate has increased as compared to the last year.

/Source: Annual report, NCCD/

6.2.3.2 Viral hepatitis B

As of 2017, a total of 304 cases of viral hepatitis B were reported in the nationwide, the case rate was 1.0 per 10 000 population, which decreased by 0.2 cases as compared to the same period of the previous year. There is a tendency that the incidence rate has decreased since 2011 for over the last decade. The incidence of viral hepatitis B was higher than the country average /1.2/ in Umnugovi /1.6/, Bayankhongor /1.3/, Ulaanbaatar /1.2/, Darkha-Uul /1.2/, Govi-Altai /1.2/, Uvs /1.1/ and Khuvsgul /1.1/ per 10 000 population, respectively.

Looking by age group, the incidence rates were high among people aged 15-34 years in 2017. By gender, 60.9% of viral hepatitis B cases were diagnosed in men.

Looking by social status, the incidence rates were high among the workers, students, unemployed people and employees. In 2017, the following main risk factors were identified for those people who infected with viral hepatitis B: 25.3% /21/ of them have received a dental treatment, 13.3% /11/ have received a medical treatment and service, 10.8% (9) had a surgery, 9.6% (8) had an injection at home, 8.4% /7/ have injured, 8,4% (7) had a family member with liver disease, 8.4% /7/ had tattoos, 7.2%

/6/ have received cosmetic treatment and services, 4.8% /4/ had a transfusion of blood and blood products and 2.4%/2/ had abortion, respectively.

6.2.3.3 Viral hepatitis C

A total of 91 cases of viral hepatitis C were reported in 2017 in the country and the rate was 0.3 per 10 000 population, it was at the same level as compared to the previous year and average rate of the last decade.

The incidence rate of viral hepatitis C per 10 000 population was higher than the country average /0.3/ in Bayankhongor /1.0/, Umnugovi /0.8/, Darkhan-Uul /0.5/, Dornogovi /0.6/, Uvs /0.5/ and Ulaanbaatar city /0.4/.

Looking by age group, the incidence rates were high among people aged 17-65 years in 2017.

In 2017, the following main risk factors were identified for those people who infected with viral hepatitis C: 29.7% /11/ of them have received a dental treatment, 8.1% /11/ have received a medical treatment and service, 5.8% (5) had a surgery, 3.5% (3) had an injection at home, 3.5% /3/ had tattoos, 3.5% /3/ had abortion, 2.3% /2/ have received cosmetic treatment and services, 2.3% /2/ have injured and 1.2% (1) had a family member with liver disease, respectively.

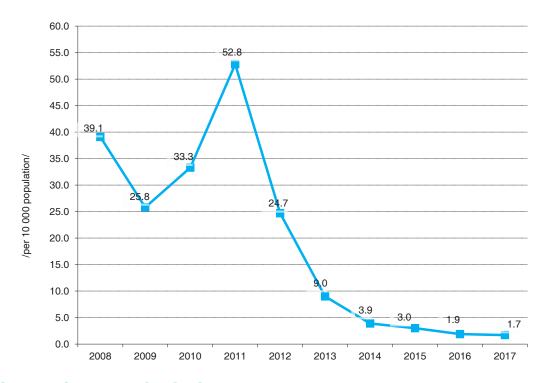


Figure 6.2.3.1. Viral hepatitis, per 10 000 population, 2008-2017

6.3 RESPIRATORY INFECTIONS

A total of 15 805 cases of respiratory infections were registered, accounted for 35.7% of all communicable diseases.

Majority of the respiratory infections were varicella (61.0%), tuberculosis (23.9%) and scarlet fever (11.3%). Compared to 2016, the incidence rate of tuberculosis and measles decreased by 0.8 and 98.9 per 10 000 population, while varicella, scarlet fever, mumps and erythema infections increased by 9.2, 1.4, 0.4 and 0.3 per 10 000 population, respectively.

Table 6.3.1. Number of registered cases of respiratory infections per 10 000 population, 2016-2017

"Infectious diseases		2016		Increase/decrease	
/ICD-10/"	Absolute number	Per 10 000 population	Absolute number	Per 10 000 population	Per 10 000 population
Tuberculosis	4045	13.2	3779	12.4	-0.8
Scarlet fever	1378	4.5	1797	5.9	1.4
Meningococcal infection	10	0.0	13	0.0	-0.0
Varicella	6834	22.3	9643	31.5	9.2
Measles	30273	99.0	17	0.1	-98.9
Rubella	48	0.2	11	0.0	0.2
Mumps	346	1.1	219	0.7	0.4
Erysipelas	160	0.5	236	0.8	0.3
Gas gangrene	0	0.0	0	0.0	0.0
Erythema infectiosum	104	0.3	90	0.3	0.0

6.3.1 TUBERCULOSIS

A total of 3 779 new cases of tuberculosis were registered which accounted for 8.5% of all communicable diseases. In total, 2 261 cases were reported in Ulaanbaatar city, it accounts for 59.8% of all reported cases of tuberculosis. In 2017, the incidence rate of tuberculosis per 10 000 population was higher than the national average.in Selenge /18.5/, Darkhan-Uul /19.0/, Dornod /16.1/, Govisumber /16.3/, Dornogovi /14.2/ aimags and Ulaanbaatar city /16.2/.

In 2017, among new registered tuberculosis, pulmonary tuberculosis was 55.0% /2 080 cases/, decreased by 51 cases and extra pulmonary tuberculosis was 45.0% /1 699 cases/, decreased by 215 cases as compared to the last year. Compared to 2016, rates of pulmonary tuberculosis increased by 2.4%, while rates of extra pulmonary tuberculosis decreased by 2.4%. Looking at the registered new cases by age group, the incidence rates were high among people 15-24, 25-34 years old and above 65 years old. By sex distribution, 55.1% were males and 44.9% were females.

Table 6.3.1.1. Tuberculosis per 10 000 population by province higher than national average, 2016-2017

Province		2016		Increase/decrease	
Province	Absolute number	Per 10 000 population	Absolute number	Per 10 000 population	Per 10 000 population
Darkhan-Uul	176	17.4	192	19.0	1.6
Selenge	191	18.0	197	18.5	-0.5
Govisumber	25	15.1	27	16.3	1.2
Dornod	119	15.6	123	16.1	-0.5
Dornogovi	83	12.7	93	14.2	1.5
Ulaanbaatar	2469	17.7	2261	16.2	1.5
National average	4045	13.2	3779	12.4	0.8

In 2017, 473 new cases of tuberculosis were reported in children aged 0-15 years old. There were 60 cases of pulmonary tuberculosis (12.7%) and 413 cases of extra pulmonary tuberculosis (87.3%). For the sever form of tuberculosis in children, 4 cases of acute military tuberculosis and 3 cases of tuberculosis meningitis were reported and these most sever forms of TB have decreased by 1 case respectively as compared to the previous year.

/Source: Annual report, NCCD/

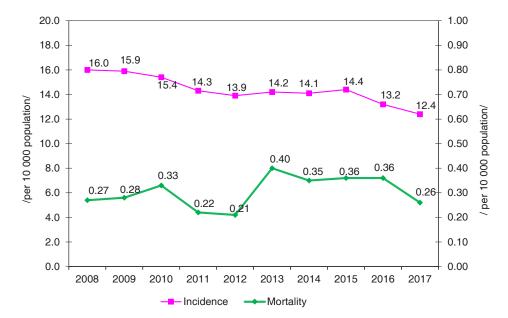


Figure 6.3.1.1. Incidence of tuberculosis and mortality, 2008-2017

In 2017, a total of 52 cases of deaths were reported and the number of cases decreased by 25 as compared to the previous year.

There was 1 child case of death due to tuberculosis meningitis which accounted for 1.9% of total TB deaths. Looking by causes, 40 cases (77%) of deaths occurred due to pulmonary tuberculosis and 12 cases (23%) of deaths occurred due to extra pulmonary tuberculosis.

According to the statistics for the last 7 years, the number of people who lost their working ability due to tuberculosis has been increasing year by year, particularly the number of people who insured by 70% or more. In 2017, a total of 2664 patients lost their working ability and received a disability pension or social welfare support. And the percentage of loss of working ability was determined as follows: 2541 people /95.4%/ were insured over 70% and 123 people /4.6%/ were insured 50-69%.

/Source: Annual report, NCCD/

6.3.2 MUMPS

At the national level, a total of 219 cases or 0.7 per 10 000 population of mumps were registered and the rate has decreased by 127 cases or by 0.4 per 10 000 population as compared to the last year.

The incidence of mumps accounted for 0.5% of all communicable diseases. Compared to 2016, the incidence rate of mumps per 10 000 population increased by 0.9-1.3 in the following aimags: Dornod /4.4/, Darkhan-Uul /2.2/ and Ulaanbaatar city /0.9/.

However, the rate has decreased in other aimags. Out of all reported cases, 54.8% were reported in Ulaanbaatar city and the rate has decreased by 0.4 per 10 000 population as compared to the last year. Incidence of the disease registered among people those aged up to 60 years old, and 53.7% of all cases registered in children 4-9 years old.

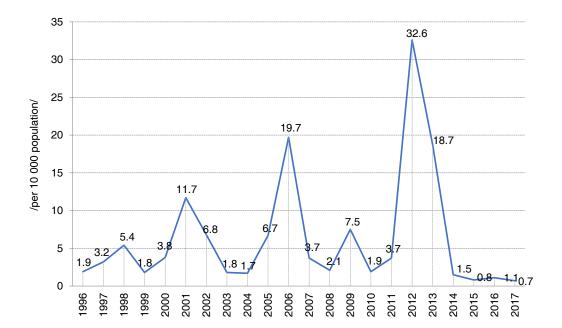


Figure 6.3.2.1. The number of mumps, 10 000 population, 1996-2017

6.3.3 VARICELLA

At the national level, a total of 9 643 cases or 31.5 per 10 000 population of varicella were registered and the rate has increased by 9.2 per 10 000 population /2 800 cases/, compared to the previous year. Incidence of the disease accounted for 21.8% of all communicable diseases.

In 2017, incidence rate of varicella per 10 000 population was higher than the country average in the following aimags: Dornod 85.3, Sukhbaatar 58.4, Dundgovi 43.4, Uvurkhangai 35.2 and Ulaanbaatar city 42.2. Compared to the previous year, the incidence of varicella has decreased in Dornogovi. Zavkhan, Umnugovi, Tuv and Khovd aimags by 0.3-23.8, while the rate has increased by 0.8-35.7 in other aimags. 61.1% of all cases registered in Ulaanbaatar city and the rate has increased by 15.7 per 10 000 population compared to 2016.

6.3.4 SCARLET FEVER

In 2017, a total of 1 797 cases or 5.9 per 10 000 population of scarlet fever were registered and the rate increased by 1.4, compared to the previous year.

In 2017, scarlet fever incidence rate was higher in Ulaanbaatar city /12.0/, compared to the country average /6.1/. The incidence of scarlet fever has decreased by 0.2-4.1 per 10 000 population in Bulgan, Dornod, Sukhbaatar, Darkhan-Uul and Khuvsgul aimags, while the rate has increased by 0.1-1.4 per 10 000 population in other aimags.

6.3.5 MENINGOCOCCAL INFECIONS

According to the dynamics of meningococcal infections registered at the national level, there were several outbreaks of meningococcal infections occurred in the country in 1974 and 1994, the case rate was 14-19 per 10 000 population.

Since 1995, the incidence rate has decreased steadily, but it has increased slightly in 2007, giving a rate of 0.6 per 10 000 population. For the past decade, the case rate of meningococcal infections was 0.04-0.3 per 10 000 population.

In 2017, a total of 13 cases or 0.04 per 10 000 population of meningococcal infections were registered. The rate increased by 3 (0.01%) cases as compared to the previous year and decreased by 8 (0.03%) cases as compared to an average of the last 5 years.

/Source: Annual report 2017, NCCD/

6.4 SEXUALLY TRANSMITTED INFECTIONS

A total of 15 364 cases of STI's were registered, accounts for 34.7% of all communicable diseases, and the rate has increased by 2.7 percent or by 400 cases as compared to the last year. 28.8% of STI's were gonorrhea, 43.4% were syphilis, 27.6% were trichomoniasis and 0.2% were HIV/AIDS, respectively.

Table 6.4.1. Number of cases of STI's per 10 000 population, 2016-2017

Infectious diseases		2016		Increase/decrease		
/ICD-10/	Absolute Per 10 000 number population		Absolute number	Per 10 000 population	Per 10 000 population	
Syphilis	6193	20.3	6670	21.8	1.5	
Gonorrhea	4374	14.3	4422	14.5	0.2	
Trichomoniasis	4371	14.3	4247	13.9	-0.4	
HIV/AIDS	26	0.1	25	0.1	0.0	

Incidence of syphilis per 10 000 population was higher than the national and aimag average in the following aimags: Govisumber, Bayankhongor, Dornod, Sukhbaatar, Khuvsgul, Govi-Altai aimags and Ulaanbaatar city.

Incidence of gonorrhea was higher in Dornod, khuvsgul, Dornogobi, Bayankhongor, Sukhbaatar, Uvs aimags and Ulaanbaatar city. Incidence of trichomoniasis was higher than the national and aimag average in Dornod, Khuvsgul, Dornogovi, Bayankhongor, Sukhbaatar, Uvs aimags and Ulaanbaatar city. In 2017, 59 cases of congenital syphilis were registered, which increased by 17 cases as compared to the last year. There were 3 cases of congenital syphilis in Arkhangai, 3 in Uvurkhangai, 3 in Khuvsgul, 2 in Dornogovi, 2 in Khentii, 1 in Bulgan, 1 in Dornod, 1 in Orkhon, 1 in Umnugovi, 1 in Selenge and 41 cases in Ulaanbaatar city. Out of the total registered cases, 13 deaths reported. 22 mothers who delivered infants with congenital syphilis have not attended the antenatal care or medical check-ups. However, 37 pregnant women have attended the antenatal care service and 6 of them had been tested for syphilis 2 times, 12 of them had been tested for syphilis only 1 time (in their early or late period of pregnancy) and 10 pregnant women were not tested for syphilis. This shows poor quality and lack of antenatal care for pregnant women, and also lack of responsibility of those pregnant women.

/Source: Annual Report 2017, NCCD/

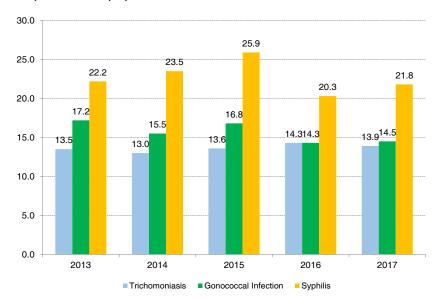


Figure 6.4.1. STI's, per 10 000 population, 2013-2017

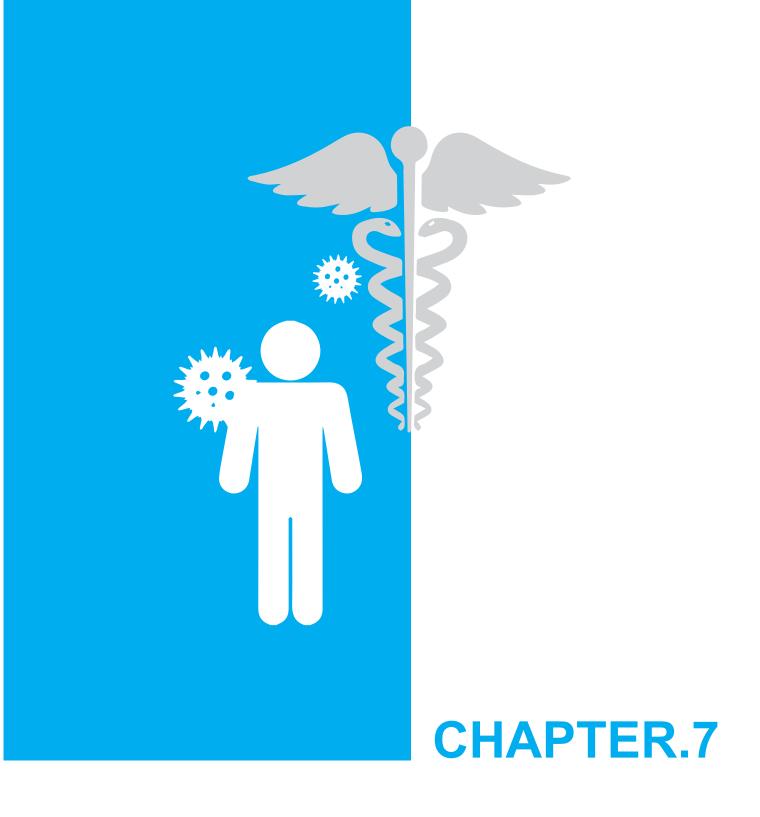
Reported cases of common STIs in 2017, 59.6% were females and 40.4% were males. By age groups, 12.3% were 15-19 years old, 26.4% were 20-24 years old, 25.2% were 25-29 years old, 14.8% were 30-34 years old, 8.9% were 35-39 years old and 12.4% were above the 40 years old, respectively.

A total of 250 cases of HIV/AIDS reported in Mongolia and 25 of them reported in 2017 which increased by 1 case, compared to the previous year. In all cases, HIV transmitted through sexual intercourse. 81% of all total HIV\AIDS cases were males: 48.2% were homosexual, 19.8% were heterosexual, 1% was transgender and 31% were men with bisexual. There were 18.0 percent females and of them 95% have heterosexual orientation. Out of the total HIV infection, 5 deaths reported.

/Source: Annual Report 2017, NCCD/

6.5. COMMUNICABLE DISEASE MORTALITY

There were 117 deaths were registered which caused by communicable diseases. According to the registration of total cases of death, there were 80 cases of tuberculosis, 13 cases of congenital syphilis, 6 cases of viral hepatitis, 5 cases of tick-borne encephalitis, 5 cases of HIV/AIDS, 3 cases of meningococcal infection, 2 cases of tick-borne rickettsioses, 2 cases of bacterial sepsis of newborn and 1 case of varicella, respectively.



NONCOMMUNICABLE
DISEASES

CHAPTER 7.

NON-COMMUNICABLE DISEASES

7.1 MAIN CAUSES OF POPULATION MORBIDITY

Non-communicable diseases are the largest cause of preventable death and disease worldwide, and even more, these numbers are rising. With an increasing number of people needing treatment, healthcare costs everywhere are growing. Achieving a healthy and sustainable environment is a key ingredient for preventing disease and enabling viable health care. Environmental factors are also main causes of non-communicable diseases, include urbanization, population density, ambient and household air pollution, unhealthy life style. According to the WHO's estimation, globally, 23% of all deaths could be prevented through healthier environments.

"WHO methods and data sources for global burden of disease estimates 2000-2015"

According to the WHO's estimation, the ten leading causes of non-communicable diseases are related to the environment as follows: stroke, ischemic heart disease, unintentional injuries, cancers, chronic lung diseases, asthma, respiratory infections, neonatal conditions and intentional injuries. Smoking is the most important risk factor for developing lung cancer, causing 68% of the burden and 41% of chronic obstructive pulmonary disease (COPD) is attributable to smoking. Air pollution is also an important cause, with 30% of COPD being attributable to ambient and household air pollution and 12% to workplace air pollution.

"Preventing noncommunicable disease by reducing environmental risk factors, WHO 2017"

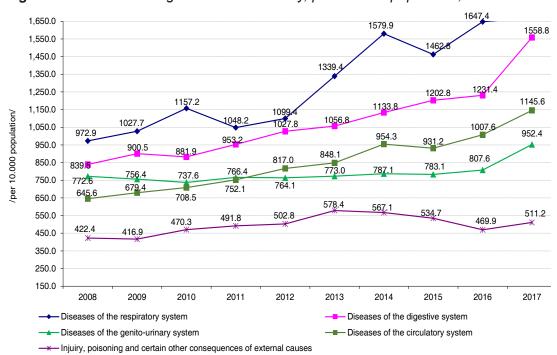


Figure 7.1.1. Five leading causes of morbidity, per 10 000 population, 2008-2017

As of 2017, the 5 leading causes of population morbidity per 10 000 population were:

- Diseases of the respiratory system /1671.4 per 10 000 population/
- Diseases of the digestive system /1558.8 per 10 000 population/
- Diseases of the circulatory system /1145.6 per 10 000 population/
- Diseases of the genito-urinary system /952.4 per 10 000 population/
- Injuries, poisoning and certain other consequences of external causes /511.2 per 10 000 population/

When the leading causes of population morbidity are stratified by location, diseases of the respiratory, digestive and cardiovascular systems are the three leading causes both in urban and rural areas in 2017. For instance, morbidity rates of diseases of the respiratory system per 10 000 population was 1520.0 in urban areas and 1796.1 in rural areas; diseases of the digestive system was 1655.8 in urban areas and 1478.8 in rural areas; diseases of the circulatory system was 1159.3 in urban areas and 1134.3 in rural areas, diseases of the genito-urinary system was 1001.2 in urban areas and 1134.3 in rural areas and the rates of injuries, poisoning and certain other consequences of external causes was 858.9 in urban and 224.8 in rural areas, respectively.

Table 7.1.1. Five leading causes of morbidity, by age and sex, 2017

	Total morbidity	Diseases of circulatory system	Respiratory system diseases	Digestive system diseases	Urogenital system diseases	Injurie, poisoning and certain other consequences of external causes
Sex						
Male	7362.7	888.5	1627.2	1238.0	442.5	650.0
Female	11285.3	1393.4	1714.0	1867.9	1443.9	377.4
Age group						
Male						
Under 20 years old	7509.8	36.5	3169.3	1299.9	240.6	542.6
20-44	4571.5	406.9	447.6	840.7	407.6	747.8
45-65	10808.3	2782.9	776.3	1731.6	755.9	630.8
Over 65 years old	20919.7	7261.6	1846.1	2593.4	1564.2	584.4
Female						
Under 20 years old	7441.9	47.1	3033.3	1380.4	296.2	320.7
20-44	10158.5	650.9	742.1	1563.0	2010.6	355.5
45-65	17194.1	3850.6	1150.7	2945.1	2212.6	460.3
Over 65 years old	24551.5	8089.4	1709.1	3538.5	2051.5	585.8
Residency						
Urban	10770.4	1159.3	1520.0	1655.8	1001.2	858.9
Rural	8198.5	1134.3	1796.1	1478.8	912.2	224.8
Regions						
Western	6675.9	1056.7	1320.2	1374.1	907.0	182.5
Khangai	8642.4	1286.8	1845.2	1509.5	1052.0	198.5
Central	8670.7	1113.7	2147.4	1525.2	843.6	271.2
Eastern	7547.2	906.0	1727.7	1481.0	696.4	267.7
National average	9360.1	1145.6	1671.4	1558.8	952.4	511.2

The outpatient morbidity rate per 10 000 population was 1.5 times higher in females than in males. The outpatient morbidity rates for injuries, poisoning and certain other consequences of external causes were 1.0 times higher among men than women. However, the morbidity rates for other diseases were 1.0-3.3 times lower in males than females.

Morbidity rates of the three leading causes of diseases by region were as follows: diseases of the

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digestive system 1374.1, disease of the respiratory system 1320.2, and diseases of the circulatory system 1056.7 in the western region; diseases of the respiratory system 1845.2, diseases of the digestive system 1509.5 and diseases of the circulatory system 1286.8 in the khangai region; diseases of the respiratory system 2147.4 and 1727.7, diseases of the digestive system 1525.2 and 1481.0, and diseases of the circulatory system 1113.7 and 906.0 in the central and eastern regions respectively.

7.2 ARTERIAL HYPERTENSION

Arterial hypertension accounts for 49.2% of all diseases of the circulatory system, the morbidity rate was 564.3 per 10 000 population. By gender, the rate was 727.6 per 10 000 population for females and 394.7 for males per 10 000 population.

The morbidity rate was higher in the khangai and central regions compared to other regions. And the rate was higher in the following aimags: Arkhangai /1049.9/, Bulgan /926.5/, Bayankhongor /845.1/, Tuv /797.5/ and Umnugovi /706.2/.

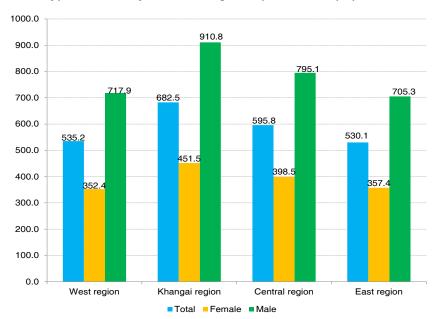


Figure 7.2.1. Arterial hypertension by sex and regions, per 10 000 population, 2017

7.3. DIABETES

Diabetes accounted for 44.1% of all diseases of endocrine, nutritional and metabolic disorders and the morbidity rate was 100.8 per 10 000 population in 2017, which increased by 22.2 as compared to the last year /the rate was 78.6 in 2016/.

The gender specific incidence rate was 94.6 per 10 000 population for males and 106.8 per 10 000 population for females. Looking by age groups, the highest rate was recorded among people aged 45-65 years, giving a rate of 354.2 per 10 000 population (19 581 cases). When stratifying by location, the highest rate was reported in the central region as giving a rate of 79.6 per 10 000 population. In the central region, the rate was higher in Dornogovi /107.1/, Darkhan-Uul /99.6/ and Selenge /97.8/ aimags.

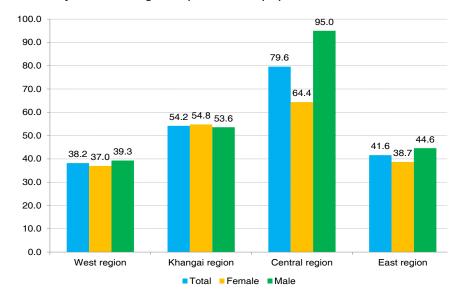
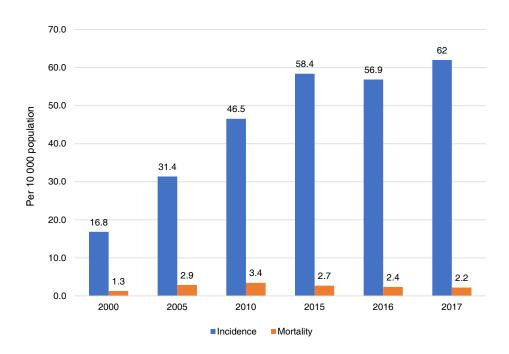


Figure 7.3.1. Diabetes by sex and regions, per 10 000 population, 2017

7.4 DISEASES OF LIVER

The diseases of liver accounted for 13.4% of all diseases of the digestive system, the morbidity rate was 209.5 per 10 000 population. The chronic hepatitis accounts for 43.9% of the total reported liver diseases as considering main causes of cancer. In 2017, the incidence of liver diseases was 169 per 10 000 population for males and 249 per 10 000 population for females, and the rate has increased by 35 cases for males and by 97 cases for females, respectively as compared to 2008. In 2017, the morbidity of chronic hepatitis was 91.9 per 10 000 population, it has increased by 35.5 as compared to 2008. In 2017, the incidence rate of other diseases of liver was 48.5 per 10 000 population, it has increased by 20.8 as compared to 2008.





The morbidity of fibrosis and cirrhosis of liver was 16.8 per 10 000 population in 2000, while the rate has increased by 45.2 as giving a rate of 62.0 per 10 000 population in 2017. By age groups, the rate was 198.9 per 10 000 population among people aged 45-65 years.

7.5. LEADING CAUSES OF THE INPATIENT MORBIDITY

As of 2017, the five leading causes of inpatient morbidity per 10 000 population were:

- Diseases of respiratory system 431.9
- Diseases of cardiovascular or circulatory system 411.7
- Diseases of digestive system 333.2
- Diseases of genitourinary system
 316.3
- Diseases of nervous system— 211.1

Table 7.5.1. Five leading causes of the inpatient morbidity by age, sex, 2017

	Total morbidity	Respiratory system diseases	Digestive system diseases	Urogenital system diseases	Cardiovascular system diseases	Nervous system diseases
Sex						
Male	2076.3	453.7	309.7	159.2	348.4	170.7
Female	3411.9	410.8	355.8	467.8	472.7	250.0
Age group /Male/						
Under 20 years old	1887.2	1005.9	244.4	63.7	13.1	75.5
20-44	1342.9	98.2	254.8	159.6	148.2	158.1
45-65	3470.7	212.1	521.1	284.4	1072.1	302.3
Over 65 years old	7787.3	641.2	801.9	650.6	3209.4	538.0
Age group /Female	,					
Under 20 years old	1795.9	874.5	216.6	94.5	16.7	71.1
20-44	3679.1	121.4	24.9	597.4	178.5	198.2
45-65	4640.7	239.0	682.4	719.1	1221.1	491.0
Over 65 years old	8944.2	549.1	1141.7	937.6	3463.2	680.4
Residency						
Urban	3151.6	488.8	406.3	311.4	421.5	221.7
Rural	2405.1	428.0	268.7	301.3	380.2	169.8
Regions						
Western	2579.6	368.1	314.2	333.1	401.5	246.1
Khangai	2152.8	324.7	237.1	328.2	386.8	145.8
Central	2289.0	439.3	229.9	285.0	360.6	175.3
Eastern	2230.5	371.1	240.6	225.2	307.0	182.1
National average	2756.4	431.9	333.2	316.3	411.7	211.1

Hospital admission rates were 2076.3 per 10 000 in males and 3411.9 per 10 000 in females. Inpatient admission rate per 10 000 population was 1.6 times lower in males than females.

As of 2017, the five leading causes among hospitalized patients were as follows: among patients with diseases of the genito-urinary system 63.1% had pyelonephritis; among patients with diseases of the respiratory system 49.1% had pneumonia; among patients with diseases of the digestive system 25.5% had liver problems; and among patients with diseases of the cardiovascular system 40.1% had suffered from arterial hypertension and 24.1 % had ischemic heart disease.

There is a tendency that the morbidity of pyelonephritis has been decreasing steadily since 2008.

Table 7.5.2. Inpatient morbidity, by percentage, 2008-2017

Diseases	Londing cours				Percer	nt of dis	seases	group			
classification	Leading cause	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Urogenital system diseases	Nephritis (N10-N16)	69.1	66.6	68.3	67.4	67.1	66.1	64.1	63.6	63.0	63.1
Respiratory system diseases	Pneumonia (J12-J18)	41.9	38.8	44.8	46.2	46.9	46.1	51.3	44	52.4	49.1
	Liver diseases (K70-K77)	25.6	25.7	25.2	26.1	26.6	27	27.8	26.9	26.0	25.5
Digestive system diseases	Appendicitis (K35-K38)	17	16.9	16.7	15.4	14.6	14.1	13.5	13.1	12.6	12.2
	Diseases of gall bladder (K80-K81)	13.7	14.2	13.8	14.2	14.3	14.6	13.6	13.2	13.4	13.5
Cardiovascular	Hypertension (I10-I15)	33.2	34.4	36.6	36.8	37.7	37.6	38.5	40.2	39.7	40.1
system diseases	Ischemic heart disease (I20, I23-I25)	30.1	29.5	26.6	26	26.1	26.7	24.6	23.6	24.3	24.1
Nervous system	Disorders on neural radixes and plexuses (G50-G59)	24.3	26	26.7	28.8	30.9	33.8	27.7	34.8	36.4	37.2
diseases	Epilepsy (G40-G41)	11.2	10.9	13.3	12.6	12.1	11.4	11.4	11.1	10.6	9.5

The incidence of pneumonia accounted for 41.9% of all inpatient morbidity caused by diseases of the respiratory system in 2008, however the percentage increased to 46.9% in 2012, and the morbidity rate has decreased by 3.3% in 2017 as compared to 2016.

In 2008, the diseases of liver and gallbladder accounted for 25.6% and 13.7% of all diseases of the digestive system. However, the morbidity rates of diseases of liver and gallbladder were 25.5% and 13.5% in 2017, the rates were at the same level as compared to 2016. Ischemic heart diseases accounted for 30.1% of all inpatients due to diseases of the cardiovascular system in 2008, while the morbidity has decreased to 24.1% in 2017.

7.6. SCREENING FOR NON-COMMUNICABLE DISEASES

In 2017, a total of 512 388 people were screened to detect arterial hypertension at early stage. Out of them, 66.7% was the target population group and the participation rate increased by 7.7% compared to the previous year. Out of the total screened people, 42.0% were males and 58% were females.

In regard to the Body Mass Index (BMI), 4.7% of the participants were underweight, 51.1% were

normal weight, 31.9% were overweight and 12.2% were obese or more than 30 kg/m2. Out of all participants, 62.1% were invited by public health workers for the screening, 16.7% by voluntarily and 9.4% by advertisement.

By early screening result, 87.3% of the participants were normal, 12.7% were identified at high risk for arterial hypertension and invited for follow-up medical examination.

A total of 69 653 people were involved in the follow-up medical examination after screening. Out of them, 9 843 people (1.9%) were diagnosed with arterial hypertension.

In total, 485 315 people were screened for early detection of diabetes and the participation rate was 63.2%. As a result, 97.1% of the participants were normal, and 2.9% were at high risk for diabetes or changes in the fasting plasma glucose test and they were referred to the secondary level hospitals. The participation rate for the screening of type 2 diabetes by gender was: 42.0% were males and 58.0% were females. As a result of the screening, a total of 22 188 people were referred to the assigned secondary level hospitals. Out of them, 1 279 people (0.3%) were diagnosed with type 2 diabetes.

Table 7.6.1. Percentage of screening coverage, by province, 2016-2017

	Sc	reening for	arterial hyperter	nsion		Screening fo	or diabetes typ	e 2
Province, city	Percentage of people screened		Diagnosis	Diagnosis verified		age of people reened	Diagnos	sis verified
	2016	2017	2016	2017	2016	2017	2016	2017
Arkhangai	56.8	64.4	6.6	6.5	60.2	71.2	0.2	0.2
Bayan-Ulgii	32.9	50.8	12.5	8.5	22.6	41.8	0.7	0.8
Bayankhongor	67.6	73.6	1.8	2.0	66.5	69.1	0.1	0.1
Bulgan	63.6	69.0	1.5	1.1	65.2	69.5	0.1	0.1
Govi-Altai	50.5	51.8	5.3	3.9	52.1	53.3	0.2	0.2
Govisumber	24.0	40.4	2.6	1.2	20.4	35.8	0.4	0.5
Darkhan-Uul	81.9	76.3	1.7	1.2	80.8	77.0	0.3	0.3
Dornogovi	97.4	93.8	1.8	1.3	92.2	87.5	0.3	0.3
Dornod	90.9	94.2	2.2	1.1	89.9	93.7	0.1	0.2
Dundgovi	57.8	68.7	2.7	1.2	58.4	67.9	0.2	0.1
Zavkhan	41.0	67.1	4.6	3.1	33.9	58.2	0.6	0.8
Orkhon	51.9	52.7	2.2	0.9	47.9	49.7	0.3	0.4
Uvurkhangai	83.1	73.8	2.2	1.6	83.6	74.6	0.2	0.1
Umnugovi	49.6	48.3	3.4	1.9	52.5	52.1	0.3	0.3
Sukhbaatar	88.2	81.3	2.3	1.3	88.2	81.3	0.1	0.1
Selenge	33.6	62.7	4.6	3.7	23.5	55.6	1.0	0.6
Tuv	80.9	72.4	1.8	1.5	78.5	70.5	0.2	0.2
Uvs	42.9	73.5	2.1	2.5	40.9	78.8	0.1	0.1
Khovd	35.0	52.6	5.1	6.6	30.8	50.7	0.5	0.9
Khuvsgul	57.6	77.4	3.6	3.7	57.9	78.1	0.1	0.0
Khentii	73.3	73.0	1.4	0.6	71.4	70.4	0.2	0.2
Province average	61.3	68.8	3.0	2.6	59.1	67.4	0.2	0.3
Ulaanbaatar	56.1	64.1	1.5	1.1	50.9	58.0	0.4	0.3
National average	59.0	66.7	2.3	1.9	55.5	63.2	0.3	0.3

7.7. SURGICAL SERVICES

In 2017, a total of 207 524 people underwent surgical treatment, of which 82.7% were in Ulaanbaatar city and 17.3% were in rural hospitals. 19.8% or 41 177 cases were pediatric surgeries, under 15 years old.

Table 7.7.1. Number of surgeries performed in Ulaanbaatar hospitals, 2017

		er of people perated	Out			toperative plications	Mor	tality rate
Operation	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 Centre for Mother and Child	15404	8021	264	51	51	15	0	0
State hospitals under Ulaanbaatar Health Authority	113617	24784	1310	349	8	0	15	0
I State Central Hospital	10752	12	1942	12	12	0	11	0
National Centre of Traumatology and Orthopaedics	10037	1993	276	5	0	0	155	9
III State Central Hospital	6281	157	777	14	16	0	14	1
Private hospitals under Ministry of Health	9788	563	1904	13	7	0	0	0
II State Central Hospital	2568	0	1041	15	23	0	17	0
National Cancer Centre	2587	6	138	9	32	0	17	0
National infectious Diseases Centre	614	90	7	4	0	0	0	0
Total	171648	35626	7659	472	149	15	229	10

Figure 7.7.1. Number of surgery, by province, 2017

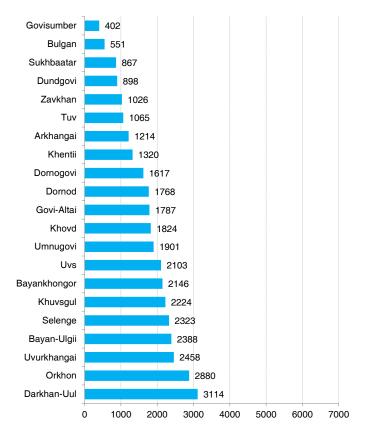
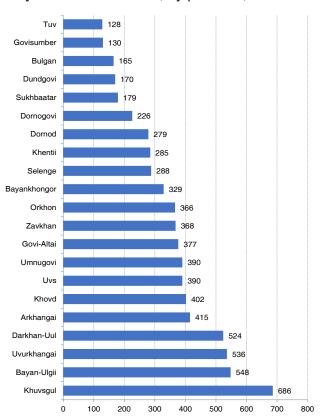


Table 7.7.2. Types of surgeries performed, 2017

Current	Number oper	of people ated	Endoscopic	Repeat		erative ations	Mortality	rate
Surgery	Number	Percen- tage	surgery	surgery	Number	Percen- tage	Number	Percen- tage
The nervous system performed surgical operations	2256	1.1	0	12	8	4.1	113	44.8
Endocrine system made surgical operations	585	0.3	5	1	3	1.5	1	0.4
Eyes made surgical operations	8078	3.9	234	57	3	1.5	0	0.0
Ear surgery done to treat arthritis	1626	0.8	15	2	0	0.0	0	0.0
Nose, mouth, pharynx performed surgical operations	91214	44.0	331	270	5	2.6	3	1.2
Respiratory system performed surgical operations	987	0.5	51	1	2	1.0	13	5.2
Cardiovascular surgery done to treat arthritis	2996	1.4	47	2	6	3.1	4	1.6
Blood and lymphatic system performed surgical operations	226	0.1	1	3	3	1.5	4	1.6
Digestive system performed surgical operations	29829	14.4	5296	133	103	53.1	80	31.7
Urinary tract fallow	1929	0.9	835	3	1	0.5	4	1.6
Male genital surgery done to treat arthritis	2434	1.2	286	2	1	0.5	0	0.0
Female genital surgery done to treat arthritis	22058	10.6	890	32	22	11.3	0	0.0
Obstetric procedures	21113	10.2	31	22	30	15.5	0	0.0
Bone and muscle system performed surgical operations	14257	6.9	422	4	4	2.1	20	7.9
Surgeries in the external organs	7936	3.8	1	0	3	1.5	10	4.0
Total	207524	100.0	8445	544	194	100.0	252	100.0

Figure 7.7.2. Appendectomy due to acute cases, by province, 2017



In the nationwide, a total of 11 885 cases of appendectomy were performed. Out of them, 39.9% or 4 741 cases were performed in Ulaanbaatar city.

Govisumber Dundgovi Bayan-Ulgii Zavkhan Umnugovi Bayankhongor Selenge Arkhangai Khuvsgul 107 110 Govi-Altai Khovd Dornogovi Tuv 138 Orkhon 223

Figure 7.7.3. Cholecystectomy by province, 2017

In the nationwide, a total of 7 984 cases of surgery for gallbladder diseases were performed. Out of them, 73.2% (5 971 cases) were performed in Ulaanbaatar city.

7.8. CERVICAL AND BREAST CANCER SCREENING IN 2017

As of 2017, a total of 84 716 women were screened for cervical cancer and 37.4% of them were the target groups of women. Out of them, 4.7% of women have diagnosed with positive Pap smear test or abnormal findings in the cervical cells.

Source: National cancer center

Figure 7.8.1. Cervical cancer screening coverage by percentage, 2012-2017

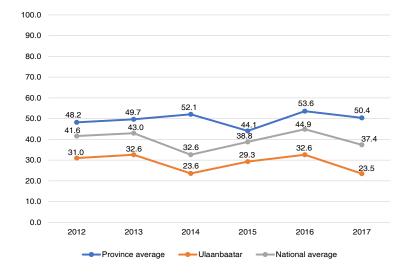


Table 7.8.1. The cervical cancer phase of the early detection /2012-2017/

Indicator	2012	2013	2014	2015	2016	2017
Number of confirmed cases of examinations	39	118	103	78	68	55
I stage	13.2	16.3	41.2	52.5	58.8	47.3
II stage	16.4	13.3	10.3	23.0	16.2	18.2
Prevalence percentage	29.6	51.5	75.5	75.0	29.6	65.5

In 2017, a total of 95 385 Pap smear test samples were collected for cervical cancer screening and resulted as follows: specimen not meets the requirement (3.2%), normal (89.9%), STDs (1.4%) and Pap smear positive (4.7%).

Table 7.8.2. Percentage of cervical cancer screening, 2017

Nº	Aimag	The number of women to be	Number of target women covered by	Percentage of
1 4=	Aimag	covered	early detection	coverage
1	Arkhangai	6.202	3.310	53.4
2	Bayan-Ulgii	5.901	1.711	29.0
3	Bayankhongor	6.015	4.035	67.1
4	Bulgan	4.407	2.303	52.3
5	Gobi-Altai	4.034	1.658	41.1
6	Gobi-Sumber	1.223	335	27.4
7	Darkhan-Uul	7.514	3.919	52.2
8	Dornogobi	4.728	2.569	54.3
9	Dornod	5.418	3.638	67.1
10	Dundgobi	3.219	2.254	70.0
11	Zavkhan	5.049	2.216	43.9
12	Orkhon	7.766	1.991	25.6
13	Uvurkhangai	7.753	5.306	68.4
14	Umnugobi	4.378	1.539	35.2
15	Sukhbaatar	4.221	2.641	62.6
16	Selenge	7.750	3.375	43.5
17	Tuv	6.375	2.885	45.3
18	Uvs	5.126	2.708	52.8
19	Khovd	5.411	2.441	45.1
20	Khuvsgul	9.212	5.296	57.5
21	Khentii	5.206	2.801	53.8
22	Province average	116.908	58.931	50.4
23	Ulaanbaatar	109.663	25.785	23.5
24	National average	226.571	84.716	37.4

A total of 1 068 women were screened by colposcopy, 165 women underwent Loop electrosurgical excision procedure (LEEP) and 419 women had a pre-cancer treatment.

As a result of the screening, 55 new cases of cervical cancer have been detected and 65.5% of them diagnosed in early stage. The participation rate of the screening varies across aimags and the highest rate was reported in Dundgobi aimag, while the lowest rate was reported in Bayan-Ulgii aimag in 2017.

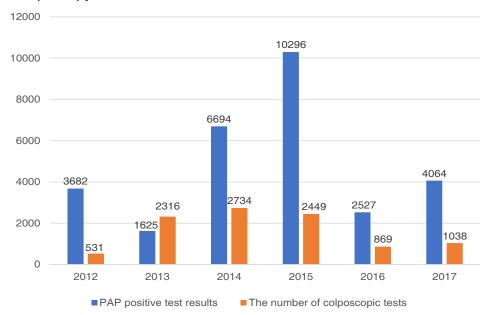


Figure 7.8.2. Colposcopy indicators, 2012-2017

According to the clinical guideline for early diagnosis of cervical cancer, woman who diagnosed with positive Pap smear test have to be screened by colposcopy. However, the participation rate of screening was only 14-37%. In 2017, examination of vaginal endoscopy has not been performed in 9 aimags and 6 districts of Ulaanbaatar city.

Table 7.8.3 Early detection of breast cancer

Nº	Indicator	2012	2013	2014	2015	2016	2017
1	The number of women covered by the possible detection of breast cancer	104615	92123	179233	226304	286921	354572
2	The number of women tested by mammography	83	623	396	285	169	130
3	Number of confirmed cases of examinations	10	24	23	20	15	13

A total of 354 572 women were screened to detect of breast cancer. Out of them, 130 women were screened by mammography and 66 women had cytology. In addition, a total of 262 women at high risk for breast cancer were screened. As a result, 13 new cases of breast cancer have been detected and 65.5% of them diagnosed in early stage.

Source: National Cancer Center

7.9. CANCER

7.9.1 Cancer incidence

In 2017, a total of 6 073 new cancer cases were diagnosed in Mongolia, of which 63.8% occurred in rural areas and 36.3% occurred in Ulaanbaatar city. Out of all new cancer cases, 50.7% (3 078 cases) were males and 49.3% (2 995 cases) were females.

A total of 2 312 new cases of liver cancer were recorded, which accounts for 38.1% of the total new cancer cases. (Table 7.9.1A, 7.9.1B, Appendix 1).

Table 7.9.1. Common carcinoma, by sex, 2017

	Total	Percent	Male	Percent	Female	Percent
1	Liver	38.1	Liver	40.4	Liver	35.7
2	Stomach	14.6	Stomach	18.7	Cervical	11.9
3	Lungs	7.2	Lungs	11.6	Stomach	10.5
4	Cervical	5.9	Esophagus	6.0	Breast	8.2
5	Esophagus	5.7	Colon and rectum	3.4	Esophagus	5.3
6	Breast	4.1	Urology, nephrology	2.3	Colon and rectum	4.5
7	Colon and rectum	4.0	Pancreas	2.0	Ovary	3.0
8	Urology, nephrology	2.7	Lymphoid leukemia	1.9	Urology, nephrology	3.0
9	Pancreas	2.3	Brain nerves	1.4	Pancreas	2.6
10	Ovary	1.5	Pharynx	1.2	Lungs	2.6

In 2017, the leading primary cancer sites in men were liver (40.4% of male cancers), stomach (18.7%), lung (11.6%), esophagus (6.0%) and colon/rectum (3.4%); while in women, liver (35.7% of female cancers), cervix (11.9%), stomach (10.5%), breast (4.1%) and esophagus (5.3%) cancers were most common. (Table 7.9.1)

7.9.2. Common types of cancer

In 2017, liver cancer accounted for 38.1%, stomach 14.6%, lung 7.2%, cervix 5.9%, esophagus 5.7%, colon and rectum 4.0% and breast cancer 4.1% of all new recorded cancer cases. And these common types of cancers accounted for 79.4% of all cancers.

7.9.2.1. Liver cancer

A total of 2312 new cases of liver cancer were recorded, of which 53.8% (1 244 cases) in males and 46.2% (1 068 cases) in females. The incidence rate of liver cancer was 74.6 per 100 000 population, which 81.9 for males and 68.0 for females. Compared to the region, the incidence rate of liver cancer was higher in the eastern aimags than the country average, the rate was 135.5 per 100 000 population for males and 105.3 per 100 000 population for females.

The cancer incidence rate per 100 000 population was higher than the country average by 51-69 cases in the following aimags: Dornod (144.1), Orkhon (138.8), Bulgan (137.6), Zavkhan (129.6) and Tuv (126.3).

7.9.2.2. Stomach cancer

A total of 889 new cases of stomach cancer were recorded, of which 64.7% in males and 35.3% in females. The incidence rate of stomach cancer was 28.8 per 100 000 population, which 37.9 for males and 20.0 for females.

Compared to the region, stomach cancer rate was higher in the western aimags than the country average, the rate was 48 per 100 000 population for males and 25 per 100 000 population for females.

The cancer incidence rate per 100 000 population was higher than the country average by 8-24 cases in the following aimags: Uvs (53.1), Orkhon (52.3), Darkhan-Uul (48.3), Bulgan (48.3) and Gov-Altai (37.2).

7.9.2.3. Lung cancer

A total of 435 new cases of lung cancer were recorded, of which 82.3% in males and 17.7% in females. The incidence rate of lung cancer was 14.1 per 100 000 population. By sex, the rate was 24 per 100 000 population for males and 4.9 per 100 000 population for females.

Compared to the region, lung cancer rate was higher in the khangai region than the country average,

the rate was 30 per 100 000 population for males and 6 per 100 000 population for females.

The cancer incidence rate per 100 000 population was higher than the country average by 9-17 cases in the following aimags: Tuv (31.9), Govisumber (29.9), Zavkhan (25.6), Khentii (24.6) and Gobi-Altai (23.1).

7.9.2.4. Esophagus cancer

A total of 344 new cases of esophagus cancer were reported, of which 54.1% in males and 45.9% in females. The incidence of esophagus cancer was 11.1 per 100 000 population. By sex, the rate was 12 per 100 000 population for males and 10 per 100 000 population for females.

Compared to the region, esophagus cancer rate was higher in the western aimags than the mean country rate. The cancer rate was 21.9 per 100 000 population for males and 26.0 per 100 000 population for females.

The cancer incidence rate per 100 000 population was higher than the country average by 6-19 cases in the following aimags: Uvs (30.9), Bayan-Ulgii (28.9), Khovd (20.2), Gobi-Altai (17.7) and Zavkhan (17.1).

7.9.2.5. Colorectal cancer

A total of 241 new cases of colorectal cancer were recorded, of which 44.0% in males and 56.0% in females. The incidence rate of colorectal cancer was 7.8 per 100 000 population, which 7 cases for males and 8 cases for females.

Compared to the region, the incidence of cancer per 100 000 population was higher in the central aimags than the country average, giving a rate of 11 per 100 000 population for both males and females.

The cancer incidence rate per 100 000 population was higher than the country average by 3-7 cases in the following aimags: Darkhan-Uul (14.8), Govisumber (12.0), Orkhon (11.9), Sukhbaatar (11.8) and Zavkhan (11.4).

7.9.2.6. Cervical cancer

A total of 356 new cases of cervical cancer were recorded, giving a rate of 12.9 per 100 000 population, the rate was 22.7 per 100 000 women.

Compared to the region, the incidence rate was higher in the khangai region than the mean country rate. The cancer incidence rate per 100 000 population was higher than the country average by 7-13 cases in the following aimags: Orkhon (24.7), Govisumber (23.9), Tuv (19.8), Darkhan-Uul (18.7) and Selenge (18.7).

7.9.3. Mortality of cancer

7.9.3.1 The leading causes of mortality

In 2017, a total of 4 004 cancer deaths (2262 cases in males and 1742 cases in females) were reported in Mongolia, which accounted for 25.4% of all deaths in the country.

Liver cancer is the most common cancer in men, it accounts for 40% of all deaths caused by cancer.

Table 7.9.3.1. The number of death of a common cancer, 2017

Nº	Male	Number	Percent	Female	Number	Percent
1	Liver	920	40.7	Liver	694	39.8
2	Stomach	402	17.8	Stomach	219	12.6
3	Lungs	316	14.0	Cervical	127	7.3
4	Esophagus	155	6.9	Esophagus	120	6.9
5	Colon and rectum	68	3.0	Colon and rectum	89	5.1

6	Pancreas	50	2.7	Breast	75	4.3
7	Lip, oral cavity and pharynx	30	1.3	Pancreas	69	4.0
8	Brain	30	1.3	Lung, bronchial	66	3.8
9	Lymphoid leukemia	30	1.3	Ovary	55	3.2
10	Urology, nephrology	28	1.2	Brain	32	1.8
	Total	2262		Total	1742	

Stages of cancer diagnosis /TNM classification/

According to TNM staging system, the percentage of new cases of cancer in the country by stage was as follows: 48.0% of cases of cervical cancer were diagnosed at stage I and II, which the detection rate has decreased by 1.6 percent as compared to the last year. 79.5% of liver cancers were detected at stage III/IV or in a late stage.

Table 7.9.3.2. The percentage of new cases of cancer /TNM classification/ 2017

Nº	Location of cancer	Байран	I stage	II stage	III stage	IV stage
1	Cervical	21.1	8.7	18.3	42.4	9.6
2	Urology, nephrology	0.4	4.5	26.8	52.4	15.9
3	Ovary	0.0	8.8	23.1	40.7	27.5
4	Pancreas	0.0	0.0	9.9	33.3	56.7
5	Esophagus	0.6	1.5	5.8	63.1	29.1
6	Breats	0.4	4.5	26.8	52.4	15.9
7	Lungs	0.0	0.9	5.3	53.6	40.2
8	Stomach	1.0	3.1	10.3	43.9	41.6
9	Liver	0.3	3.7	16.4	43.7	35.8
10	Colon and rectum	1.6	1.6	13.7	40.8	42.3
	Total	1.9	4.9	14.9	44.6	33.6

7.9.4. Cancer control

At the end of 2017, a total of 18053 cancer patients have been controlled by oncologists at the aimag and district health care levels in the country. Out of these patients, 35.7% /6436/ were males and 64.3% /11617/ were females.

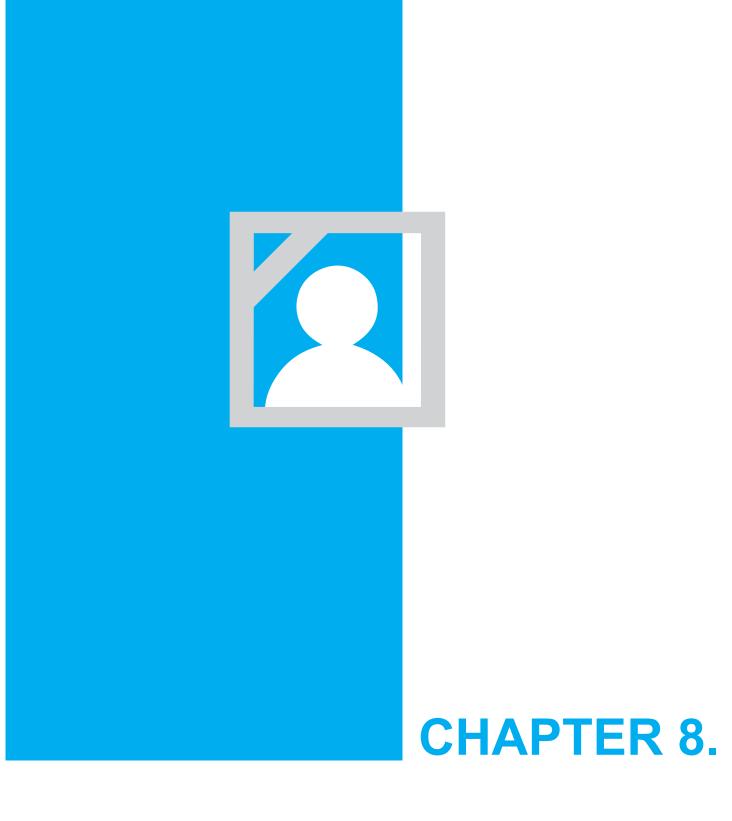
In regard to survival rate, 33.1% of people diagnosed with cancer survived longer than 5 years after being diagnosed and the rate has increased by 1.0% as compared to the previous year.

48.8% of women who diagnosed with cervical cancer survived longer than 5 years and the survival rate was the highest as compared to the rates of other cancer types.

7.9.5. Childhood cancer and mortality

In 2017, a total of 122 new cases of cancer were recorded among children, of which 60.7% /74/ in males and 39.3% /48/ in females in the country. The incidence has increased by 14 cases compared to the previous year.

By age groups, 39.3% of cancer cases occurred among children aged 0-4 years, 24.6% were among children aged 5-9 years, 18.9% were in children aged 10-14 years and 17.2% were among children aged 15-19 years. The most common types of cancer are lymphoid leukemia, brain cancer and neurologic cancer in children.



POPULATION MORTALITY

CHAPTER 8.

POPULATION MORTALITY

Diseases of the circulatory system, cancer and injuries, poisoning and certain other consequences of external causes have been the leading causes of death of the population since 1995.

Table 8.1. The number of death, leading causes.

	1995 2005		05	2013		2014		2015		2016		2017		
Disease group	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Total	16184	7164	15469	6003	16192	6459	16495	6558	16374	6552	16181	6519	15812	6204
Cardiovascular disease	4992	2505	5923	2566	5682	2482	5669	2460	5591	2374	5390	2270	5405	2204
Cancer	2997	1303	2918	1309	3795	1678	4011	1773	4028	1807	4142	1837	4037	1748
Injury, poisoning and external causes	1406	301	2824	517	2788	558	2758	563	2563	493	2431	498	2630	544
Diseases of the digestive system	1284	592	1249	535	1357	615	1274	572	1311	630	1205	559	1155	539
Some disorders occur in the perinatal period	413	166	452	188	617	263	692	286	735	310	583	242	559	233
Diseases of the respiratory system	2553	1119	699	287	551	210	585	230	613	244	699	295	605	253
Infectious and parasitic diseases	897	363	474	156	301	111	311	93	328	105	462	177	276	82
Diseases of the nervous system	288	138	233	94	288	119	315	115	306	111	330	140	267	121
Disorders of the urinary system	429	207	310	133	171	78	209	98	267	128	246	117	245	126
Congenital malformations, abnormal development and chromosomal disorders	137	68	145	74	232	98	228	115	163	72	220	102	197	93

By the end of 2017, a total of 15 812 deaths were registered in the nationwide, which reduced by 369 cases or 2.3% as compared to the last year. Of the total deaths, 60.8% were males and 39.2% were females.

Of the total mortality, 4 292 deaths or 27.1% were occurred in hospital, and the proportion of deaths that occurred within 24 hours of admission was 22.5%.

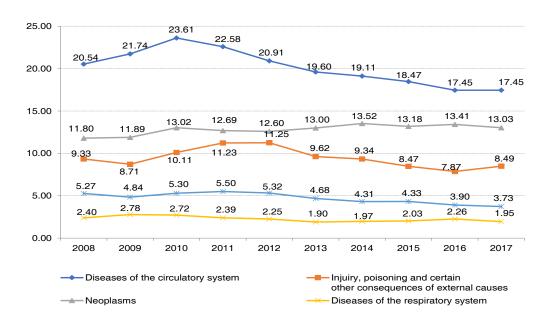


Figure 8.1. Five leading causes of mortality per 10 000 population, 2017

The leading causes of mortality in 2017 were diseases of the circulatory system (34.2%), cancer (25.5%), injuries, poisonings and certain other consequences of external causes (16.6%), diseases of the digestive system (7.3%), and diseases of the respiratory system (3.8%). Deaths from these diseases accounted for a combined 87.4% of all deaths.

Considering the five leading causes of death in 2017, annual average of 5 000-5 500 people or one in third of all deaths were due to diseases of the circulatory system, and over 4 000 people died from cancer and over 2500 people or one in six of all deaths were due to injuries and poisoning.

As of 2017, the five leading causes of mortality were:

- Diseases of the circulatory system (17.45 per 10 000 population)
- Cancer/Neoplasms (13.03 per 10 000 population)
- Injuries, poisoning and certain other consequences of external causes (8.49 per 10 000 population)
- Diseases of the digestive system (3.73 per 10 000 population)
- Diseases of the respiratory system (1.95 per 10 000 population)

The population mortality rate is 63.20 per 10 000 in males and 39.33 per 10 000 in females. The mortality rate is greater in men by 1.5 times than in women.

Out of all deaths, 6.4% occurred in children until 1 year old, 7.9% in children under-five year and 1.3% in children aged 5-14 years old.

In 2017, the top 8 causes of death are liver and biliary tract cancers, ischemic heart disease and stroke, accounting for a combined 52.2 percent of all deaths. Suicide accounted for 2.8% of total deaths nationwide, making it the 9th leading cause of death. Suicide is one of the leading causes of death among the population and a major health issue.

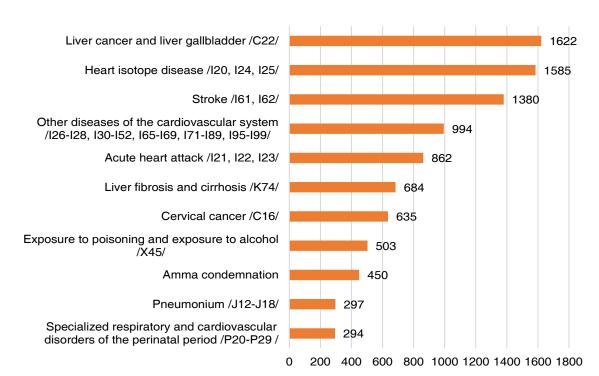


Figure 8.2. The first 11 cause and deaths of the death, 2017

Table 8.2. The number of 11 leading causes of death, 2017

	Total morbidity	Diseases of circulatory system	Neaplasms	Injuries, poisoning and certain other consequences of external causes	Diseases of digestive system	Diseases of respiratory system			
Sex									
Males	63.20	21.06	15.06	13.72	4.05	2.32			
Females	39.33	13.97	11.08	3.45	3.42	1.60			
Age group									
Under 20 years old	13.75	0.25	0.49	3.16	0.44	1.54			
20-44	20.01	3.65	2.43	9.73	1.72	0.41			
45-65	119.54	36.23	32.83	16.15	8.48	2.82			
Over 65 years old	474.83	233.48	148.75	9.87	33.22	17.25			
Residency									
Urban	51.51	14.83	12.52	10.04	4.47	1.97			
Rural	50.66	19.60	13.46	7.21	3.12	1.94			
Regions									
Western	49.81	19.54	13.92	6.12	2.54	1.66			
Khangai	52.52	20.93	13.77	7.76	3.12	1.87			
Central	49.42	18.79	12.52	8.40	3.22	1.91			
Eastern	51.23	16.48	15.86	6.51	3.82	2.60			
National average	51.04	17.45	13.03	8.49	3.73	1.95			

8.1 MORTALITY CAUSED BY DISEASES OF THE CIRCULATORY SYSTEM

Each year due to diseases of the circulatory system 5 000-5 500 people, or 1 out of 3 of people died, which remains the leading cause of death. The gender-specific mortality rates for cardiovascular diseases were 21.06 per 10 000 population for males and 13.97 per 10 000 population for females in 2017. The mortality rate due to cardiovascular diseases was higher in the Khangai, Central and

Western regions, and lower in the Eastern aimags than the mean country rate.

The main causes of mortality rates of cardiovascular diseases compared by age group and sex are as follows: Ischemic heart disease was 25.7, stroke was 19.2 and arterial hypertension was 1.3 per 10 000 population in males aged 45-64. Compared to the mortality rate of women at the same age group, rates of ischemic heart disease was 5.7 times higher, stroke was 1.9 times higher and arterial hypertension was 1.8 times higher in men than in women (Table 8.1.1).

The stroke was the leading cause of mortality among Mongolian men and the mortality rate was 6.08 per 10 000 population in 2017, which has decreased by 0.4 promile as compared to the previous year. Until 2003, the mortality rates for ischemic heart disease and stroke were in close proximity but starting from 2012, an increased trend has been observed for the mortality rate of stroke.

Table 8.1.1. Cause-specific cardiovascular disease mortality rate age-group per 10 000 population, 2017

	Diseases of circulatory system	Stroke	Arterial hypertension	Ischemic heart diseases
Total mortality	17.45	5.17	0.67	7.90
Under 20 years old	0.2	0.1	0.0	0.0
20-44	3.7	1.2	0.1	1.5
45-64	36.2	14.3	1.0	14.3
Over 65 years old	233.5	51.6	11.8	116.7
Male	21.06	6.08	0.58	10.12
Under 20 years old	0.3	0.1	0.0	0.1
20-44	5.6	1.7	0.1	2.5
45-64	56.1	19.2	1.3	25.7
Over 65 years old	281.8	64.8	10.5	144.8
Female	13.97	4.30	0.75	5.76
Under 20 years old	0.2	0.1	0.0	0.0
20-44	1.8	0.8	0.0	0.6
45-64	19.2	10.1	0.7	4.5
Over 65 years old	201.4	42.8	12.7	98.1

8.2. CANCER MORTALITY

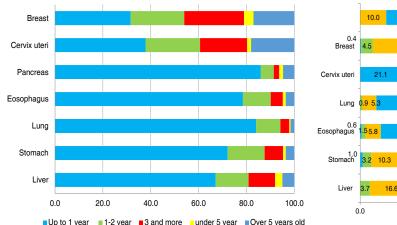
Since 1990, cancer has been the second leading cause of population mortality in Mongolia. In 2017, cancer related mortality rate accounted for 25.5% of total deaths and the rate was 15.06 per 10 000 population for males and 11.08 per 10 000 population for females.

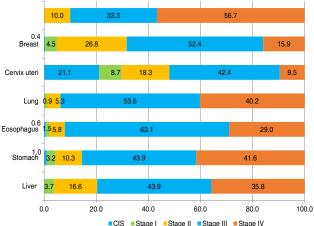
The five leading causes of cancer by primary sites in males were liver, stomach, lung, bronchial tubes, esophagus and colon/rectum, while in females they were liver, stomach, cervix, esophagus, lung and bronchial tubes. In 2017, 78.3% of cancer patients diagnosed at stage III/IV or in a late stage and 82.4% of people who died from cancer survived for less than 1 year after being diagnosed.

Compared to 2008, the percentage of cancer diagnosed during the late stages was recorded at the same level and the percentage of cancer patients survived for less than a year after the diagnosis was 15.3%.

Figure 8.2.1. Leadind causes of cancer mortality Figure 8.2.2. Leading causes of cancer morbidity by survival years after the diagnosis, 2017

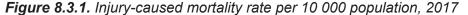
by the stage diagnosis, 2017

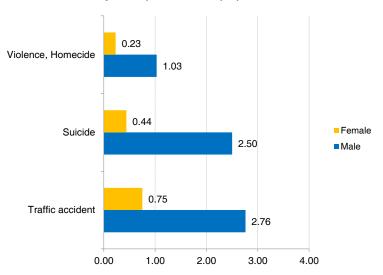




8.3 MORTALITY DUE TO INJURIES, POISONING AND CERTAIN OTHER **CONSEQUENCES OF EXTERNAL CAUSES**

Mortality due to injuries, poisoning and certain other consequences of external causes has increased significantly for the last years. It was ranked as the fifth leading cause of population mortality in 1990 and has been ranked as the third leading cause since 2000. The mortality rate caused by injuries, poisoning and certain other consequences of external causes per 10 000 population was 6.0 in 1995, 7.6 in 2000 and 11.7 in 2007, which the rate has increased by almost 2 times. However, the mortality rate of injuries, poisoning and certain other consequences of external causes has declined since 2008 for over the last decade. The rate was reported at 9.3 per 10 000 population in 2008 and at 8.7 per 10 000 population in 2009. In 2011, the mortality rate was 11.2 per 10 000 population, while the rate reached 8.49 per 10 000 population in 2017, decreased by 2.7 promile. In 2017, a total of 2 630 deaths from injuries, poisoning and certain other consequences of external causes were reported, of which the rate was 8.49 per 10 000 population. And the rate has increased by 0.62 as compared to the previous year. By sex, 79.3% were males and 20.7% were females. The mortality rate for men was reported at 13.72 per 10 000, which the rate was higher in men by 4.0 times than in women.





Over the last 15 years, approximately 15 000 deaths were recorded per a year an average, of which 446 cases or 3% of deaths were suicide deaths.

In 2003, a mortality rate of suicide was reported at 0.9 per 10 000 population, but the rate has increased by 1.5 in 2017.

According to the mean mortality rate during 2003-2017, 60.3% of total deaths occurred among men and 84.7% of suicides were males. In 2017, the number of suicide was 450, it has accounted for 2.8% of total deaths.

Despite the small percentage of suicides in total deaths, there are different pattern observed in terms of age groups. For instance, there were 1 in 5 persons aged 10-14 and 25-29, 1 in 4 persons aged 15-24 and 1 in 6 persons aged 30-34 died by suicide, of all deaths in each ages groups in 2017.

			_							-					
Year	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total	1.47	2.88	2.90	3.06	3.28	2.70	2.85	2.67	2.59	2.85	2.87	2.99	2.93	2.78	2.84
0-4	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-9	2.0	0.0	1.1	1.1	1.6	0.8	1.6	1.0	1.2	1.2	2.2	0.0	0.9	2.8	8.0
10-14	3.3	9.8	8.3	7.3	6.6	13.0	17.4	14.3	15.2	17.6	13.3	21.4	15.0	21.2	18.0
15-19	9.4	19.7	19.5	15.4	17.5	17.7	20.6	23.3	18.8	21.4	20.8	25.3	24.5	23.5	25.8
20-24	9.1	17.9	17.1	16.1	15.7	17.2	14.6	20.7	16.9	20.0	21.7	19.4	25.6	23.3	28.48
25-29	8.5	13.1	14.6	14.1	18.4	14.9	17.4	16.6	16.3	19.2	20.4	19.4	23.3	19.2	18.94
30-34	6.7	9.4	9.9	12.1	11.7	9.8	13.2	12.1	9.9	8.9	11.5	16.9	13.9	15.3	15.5
35-39	3.1	6.2	7.3	7.7	8.8	7.4	8.7	7.0	6.3	7.2	8.3	7.9	9.2	8.3	6.8
40-44	2.9	4.9	3.9	5.3	4.9	4.4	5.0	3.8	4.2	4.7	4.7	4.9	5.0	4.5	5.2
45-49	1.8	2.9	2.9	2.6	2.8	2.7	2.6	2.1	2.1	2.3	3.1	2.5	2.8	3.1	2.9
50-54	0.7	1.4	1.5	2.3	1.9	1.7	1.7	1.3	1.6	2.0	2.0	1.8	1.9	1.2	2.2
55-59	0.3	1.4	1.0	1.1	1.4	0.7	1.3	0.3	0.9	0.4	1.2	0.9	0.6	1.3	1.1
60-64	0.3	0.7	0.6	8.0	1.3	0.3	0.5	0.2	0.3	0.3	0.2	0.4	0.3	0.4	0.6
65+	0.0	0.2	0.1	0.3	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.3	0.1	0.1	0.2

Table 8.3.1. Percentage of suicides in total mortality, by age group, 2003-2017

Looking by above table, in 2003, suicide accounted for 3.3% of all deaths among children 10-14 years old. However, suicide death reached 18.0% in 2017 as increased by 5 times, with the most difference, compared to other age groups.

A high trend of suicide in males among 20-24 years old was observed, it was still high in 2017. In 2017, the female suicide rate was high among children 15-19 years old.

Furthermore, looking for age groups and causes, suicide rate was the leading cause of death among adolescents and young people, and majority of them were males.

For instance, the male suicide rate accounted for 75.0% of all deaths among children 10-14 years old, 65.0% among people 15-19 years old, 81.5% among people 20-24 years old, 85.2% among people 25-29 years old and 90.7% among people 30-34 years old, respectively.

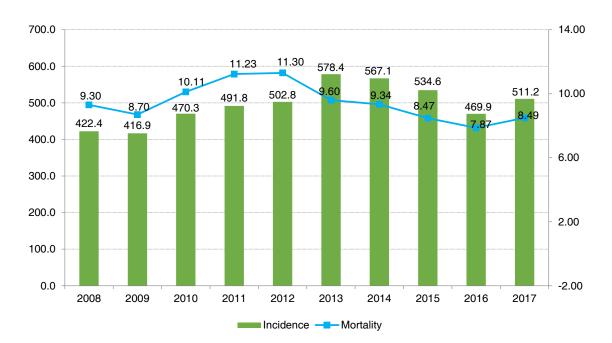


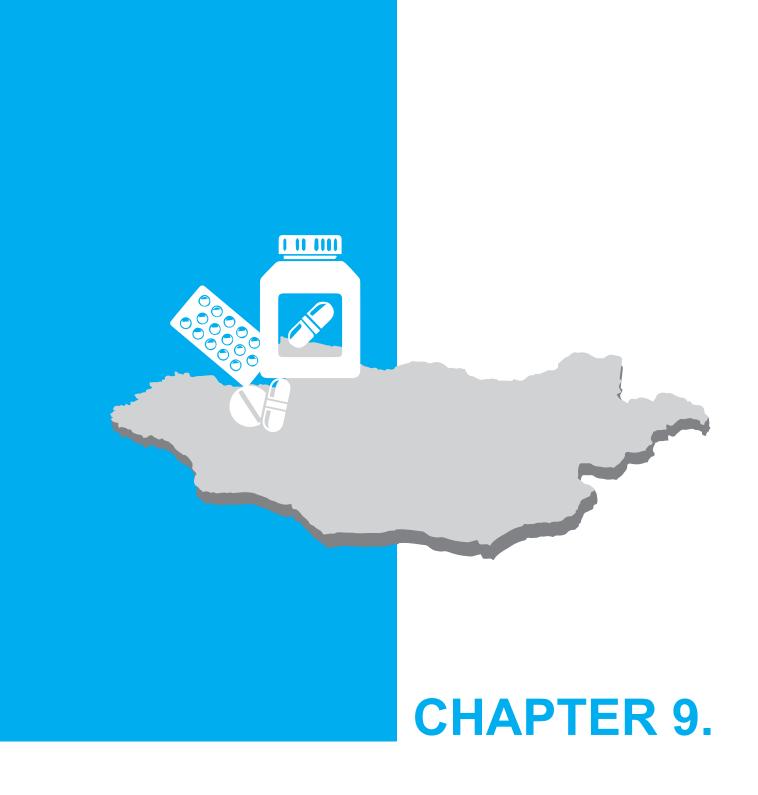
Figure 8.3.2. Injury-caused morbidity and mortality per 10 000 population, 2008-2017

Table 8.3.2 Mortality projection of the world population, 2017

2030 Disease and injure	Deaths /%/	Rank	Rank	Deaths /%/	2016 Disease and injure
Isheamic heart diseases	14.2	1	1	15.5	Isheamic heart diseases
Cerebrovascular diseases	12.1	2	2	10.1	Cerebrovascular diseases
Chronic obstructive pulmonary diseases	8.6	3	17	1.2	Chronic obstructive pulmonary diseases
Lower respiratury infections	3.8	4	6	2.6	Lower respiratury infections
Road traffic accidents	3.6	5	7	3.4	Road traffic accidents
Trachea, bronchus, lung cancers	3.4	6	9	2.5	Trachea, bronchus, lung cancers
Diabetes mellitus	3.3	7	16	1.1	Diabetes mellitus
Hepyrtensive heart diseases	2.1	8	15	1.3	Hepyrtensive heart diseases
Stomach cancer	1.9	9	6	3.9	Stomach cancer
HIV-AIDS	1.8	10	23	0.0	HIV-AIDS
Nephritic and nephross	1.6	11	13	1.5	Nephritic and nephross
Self-inficted injures	1.5	12	8	2.8	Self-inficted injures
Liver cancer	1.4	13	3	10.2	Liver cancer
Colon and rectum cancers	1.4	14	18	1.0	Colon and rectum cancers
Oesophagus cancer	1.3	15	11	1.7	Esophagus cancer
Violence	1.2	16	14	1.2	Violence
Diarrheal diseases	1.2	17	21	0.0	Diarrheal diseases
Cirrhosis of the liver	1.2	18	4	4.3	Cirrhosis of the liver
Breast cancer	1.1	19	19	0.5	Breast cancer
Tuberculosis	1	20	12	0.5	Tuberculosis
Neonatal infections and other	0.9	21	22	0.0	Neonatal infections and other
Prenatality and low birth weight	0.9	22	20	0.3	Prenatality and low birth weight
Birth asphydia and birth trauma	0.7	23	10	1.9	Birth asphydia and birth trauma
Malaria	0.4	24	24	0.0	Malaria

According to the WHO estimation in 2008, the five leading causes of death globally are projected to be ischemic heart disease, cerebrovascular disease, chronic obstructive pulmonary disease, lower respiratory infections and traffic injuries in 2030.

As of 2017, the leading causes of deaths were ischemic heart disease, cerebrovascular disease and liver cancer in Mongolia.



INDICATORS OF PHARMACEUTICAL SECTOR

CHAPTER 9.

INDICATORS OF PHARMACEUTICAL SECTOR

9.1. Drug Registration

Under the State legislation on the implementation of drug policy, creating a single stream reporting system of pharmaceutical sector, the statistics and information of pharmaceutical sector are integrated with a purpose of ensuring information transparency, improving accessibility and strengthening a good governance of pharmacy.

In order to provide good quality, safe and effective drugs/medicines to health organizations and people drug registration has been started in Mongolia since 1994. Based on the 22nd provision of Law on Drug and Medical Devices, drug registration is regulated by "The Registration Rule of Pharmaceuticals and Raw materials", approved by Health Minister's order N13 in 2015.

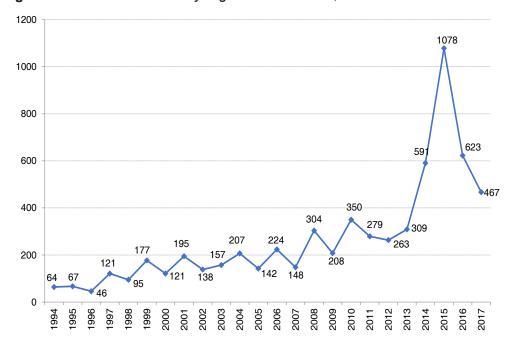


Figure 9.1.1. Number of newly registered medicine, /1994-2017/

In 2017, 467 new drugs have been registered, and 278 of them are imported drugs, 126 traditional medicines and 43 domestically produced drugs. In 2017, 21 medical raw materials have been newly registered and the registration time of 382 drugs and 2 medical raw materials was extended, 382 registered drugs were amended and 17 drugs were removed from the registration.

As of 2017, there are 5 880 drugs and 261 pharmaceutical raw materials have been registered in Drug Registry of Mongolia, which the numbers have increased by 1 158 drugs and 20 pharmaceutical raw materials as compared to the previous year.

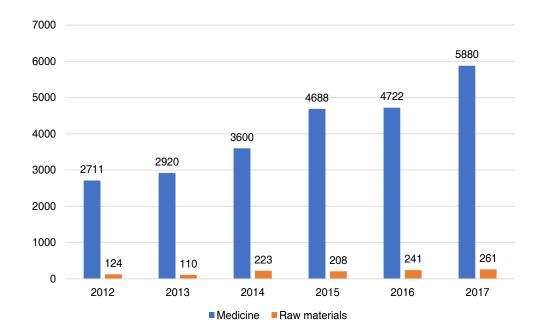


Figure 9.1.2. Registered medicine and raw materials, /2013-2017 он/

In 2017, a total of 5 880 registered drugs, 30.6% of them are non-prescription medicines, 69% are prescription medicines and 0.4% drugs to be used in medical conditions.

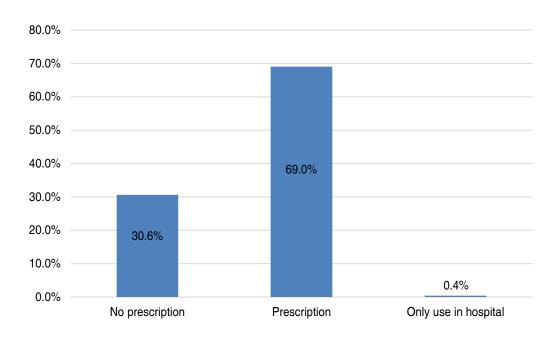
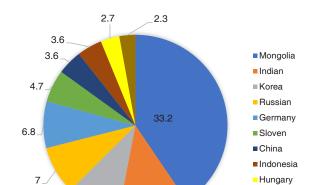


Figure 9.1.3. Registered medicine by prescription classification /%/, 2017

Of the 59 countries 5880 registered drugs, in Drug Registry of Mongolia, looking them by the leading 10 countries.



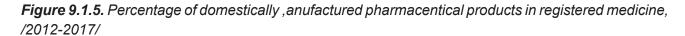
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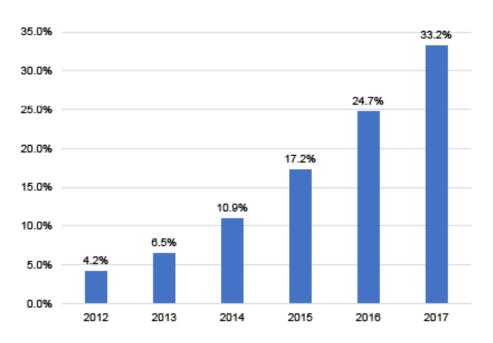
Figure 9.1.4. Registered medicine, by country, 2017

The registration of domestically produced drugs has been improved over the recent years. In 2017, domestically produced drugs accounted for 33.2% of all registered drugs, the percentage has increased by 8.5% as compared to the previous year.

10.1

■ Bolgaria





By the end of 2017, all registered drugs are shown according to the Anatomical Therapeutic Chemical (ATC) classification in Mongolia as follows:

Figure 9.1.6. ATC classification, 2017

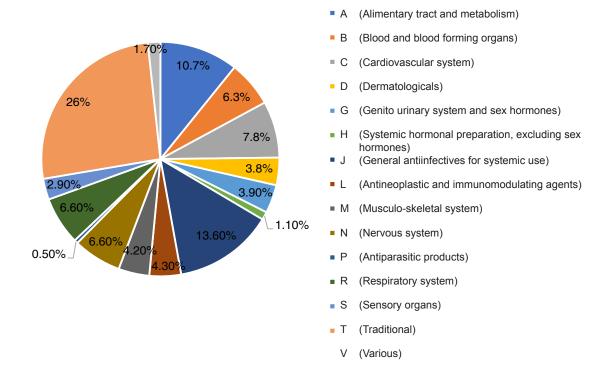
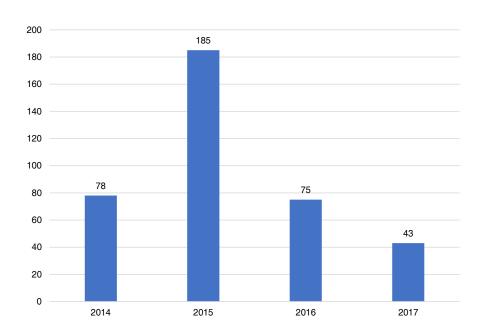


Figure 9.1.7. Registered domestically medicine, by registered year, /2014-2017/



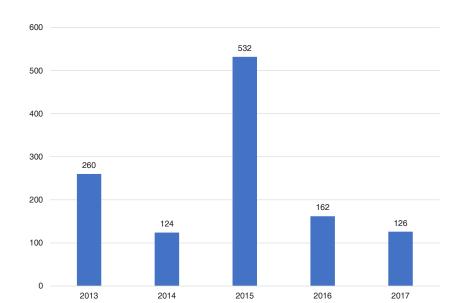
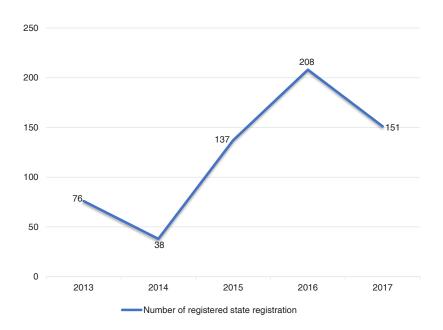


Figure 9.1.8. Registered traditional medicine, /2013-2017/

In 2017, 151 new Biologically Active Products have been registered. The registration of Biologically Active Products has been increased over the recent years, however it has decreased by 57 products in 2017.





9.2. DRUG SIDE EFFECTS AND SAFETY

Registration of drug side effects and safety are regulated by the Order No.415, "Registration Rule of Drug Side Effects and Safety", approved by Minister of Health in 2013.

During 2012-2017, 777 cases of drug side effects were registered from 99 health care organizations and those cases were conversed by the Subcommittee of Drug Research.

Table 9.2.1. Number of adverse drug reactions and reported hospitals

Indicators		2012	2013	2014	2015	2016	2017
Hospitals and pharmacies	Number of reported health organization	8	14	11	5	16	9
in Ulaanbaatar	Number of adverse drug reactions	57	111	98	44	117	59
Lleanitale and pharmasics	Number of reported health organization	2	7	7	8	6	7
Hospitals and pharmacies in rural areas	Number of adverse drug reactions	8	66	60	24	106	27
Total	Number of reported health organization	10	21	18	13	22	15
	Number of adverse drug reactions	65	177	158	68	223	86

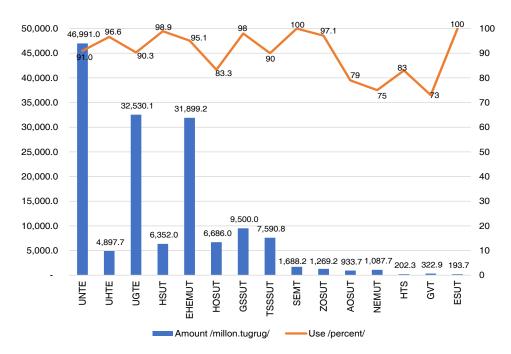
The Subcommittee of Drug Research evaluates and certifies those drug side effects reported from health care organizations according to the "Naranjo scale/Наранжогийн горим".

9.3 THE UTILIZATION OF MEDICAL EQUIPMENT

In total, 2790 different types of (by double count) 8640 medical equipments worth of 152.1 billion MNT are being used in central hospitals and specialized health centers.

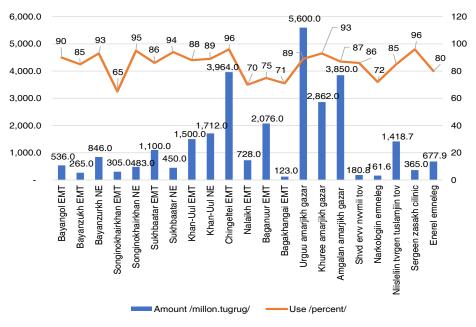
The utilization coefficient of medical equipments is 70-100%, with an average of 90.02%.

Figure 9.3.1 Medical equipment supplies and usage rates of central and specialized hospitals, 2017



In total, 2506 different types of (by double count) 7276 medical equipments worth of 26.204 million MNT are being used in health care organizations of the Ulaanbaatar City Health Department. The utilization coefficient of medical equipment is of 65-96% with an average of 85.1%.

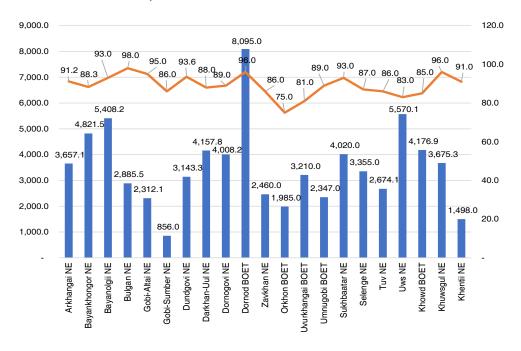
Figure 9.3.2. Medical equipment supplies and usage rates of state hospitals under Ulaanbaatar city health department, 2017

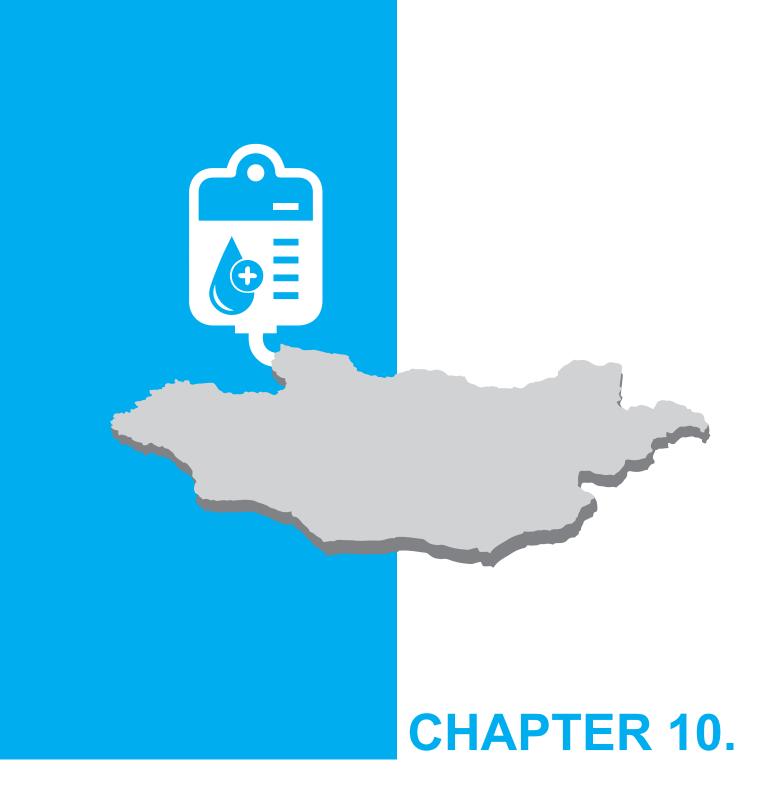


In total, 3329 different types of (by double count) 11 288 medical equipments worth of 74.316.1 million MNT are being used in Aimag general hospitals and RDTC's.

The utilization coefficient of medical equipment is 65-96%, with an average of 85.1%.

Figure 9.3.3. Medical equipment supplies and usage rates of province general hospital and regional diagnostic and treatment centres, 2017





BLOOD TRANSFUSION SERVICES

CHAPTER 10.

BLOOD TRANSFUSION SERVICES

In 2017, the National Center for Transfusion Medicine (NCTM) has worked under the slogan of "The power of cooperation - the key to success" and supplied safe blood and blood products to healthcare facilities.

The NCTM's team worked in the technical working group on the revision of "Law on Organ Donors" and approval of the amendments of the Law legalized for improving management of donors and ensuring blood safety.

The NCTM has been accredited by the national ISO standards and certified for 3 years, and implemented MNS ISO 9001:2015 standards of quality management system at the national level. In addition, MNS ISO 15189:2015 quality standards have been implemented for the laboratory services. The laboratory has been evaluated again in 2017 and certified for 4 years.

In 2017, "The instruction for transfusing blood and blood products in common diseases" has approved by Health Minister's order No.3 and the NCTM provides specialized professional guidance to hospitals and health facilities.

The number of blood donating was 16 707 in 2013, but the number reached 25 602 in 2017, an increase by 53.0% at the NCTM. For the Blood bank branches, the number of blood donating was 5 932 in 2013, while this number increased by 31.5%, reached 7805 in 2017.

The number of blood donating has increased by 47% for the blood transfusion services as a whole since 2013 (Figure 10.1).

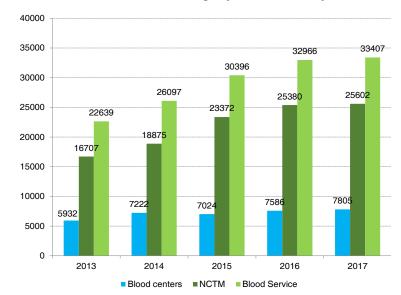


Figure 10.1. The number of blood donating, by the selected years

In 2013, the number of blood donating was 12.0 per 1000 population in Ulaanbaatar capital city and 4.0 per 1000 population in countryside, it has increased and reached 18.1 and 4.6 in Ulaanbaatar city and in countryside, respectively. The number of blood donating per 1000 population is relatively low in rural areas related to number of the population and usage of blood and blood products (Figure 10.2).

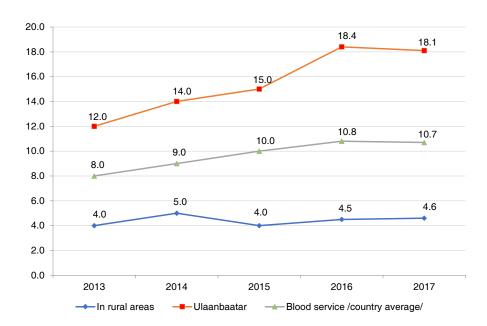


Figure 10.2. The number of blood donating per 1 000 population, by the selected years

In 2013, the percentage of regular blood donors was reported at 37.2% and its number reached 55.0% in 2017, an increase by 17.8%. An increasing percentage of regular blood donors indicated that improvement of blood donor recruitment and storage of blood and blood products. And this has allowed establishing reserves and supplying safe and quality assured blood and blood products (Figure 10.3).

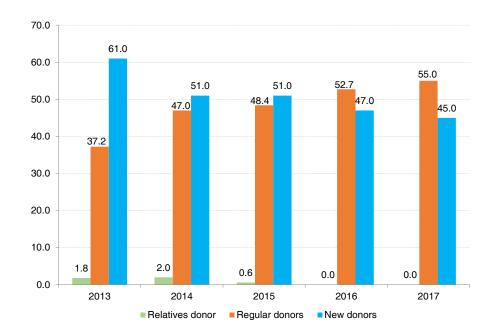


Figure 10.3. The type of blood donating to blood service /by percentage/

In 2013, 51.4% of all blood donors accounted for age group of people 17-24. However, this percentage has reached 43.7%, a decrease by 10.4% in 2017. There is a tendency, the number of blood donors aged above 30 has been increasing (Figure 10.4).

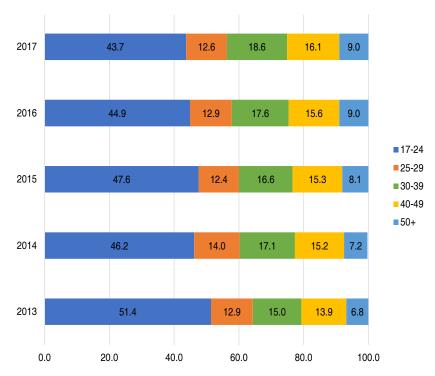
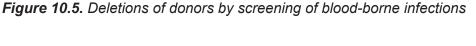
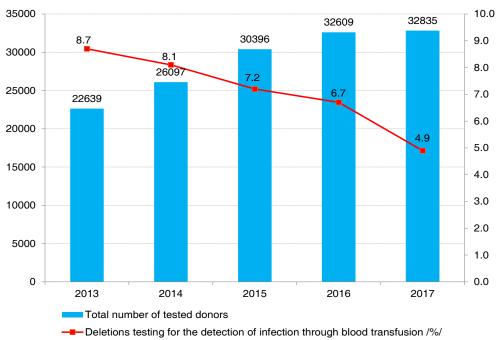


Figure 10.4. Blood donors by age groups

The percentage of deletions testing for the detection of infection through blood transfusion was estimated at 4.9% in 2017 (Figure 10.5).





The production of blood and blood products was 43 033 units in 2013, and reached 73 087 units in 2017, an increase by 69.8% at the NCTM. For Blood bank branches, the production was 11 569 units in 2013 and increased by 50.0%, reached 17 416 units in 2017. The production of blood and blood products has increased by 65.7% for the blood transfusion services as a whole since 2013 (Figure 10.7).

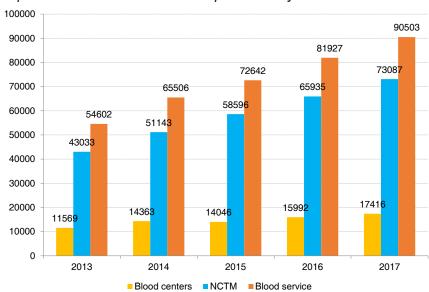
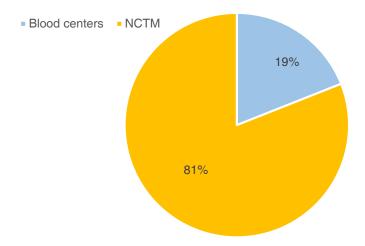


Figure 10.6. The production of blood and blood products /by units/

Figure 10.7. Production of blood and blood products in the NCTM and in Blood bank branches /by percentage/, 2017



In the nationwide, 81% of blood and blood products are produced by the NCTM and 19% by the Blood bank branches.



HEALTH ECONOMICS

CHAPTER 11.

HEALTH ECONOMICS

This chapter is based on the financial performance report of the General Budget Governor in charge of health issues and information on Health Insurance Fund's income and expenditure.

11.1. BUDGET PERFORMANCE OF THE HEALTH SECTOR

800.0 6.0 674.4 657.5 700.0 4.6 5.0 584.2 _{581.9} 4.2 4.1 600.0 4.0 500.0 33 33 3.1 424.4 3.0 400.0 3.0 2.6 2.5 2.8 300.0 250.3 2.0 211.5 206.4 200.0 155.4 46.9 54.3 57.7 62.1 ^{77.6} 83.7 ^{103.1} 1.0 100.0 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 Total health sector expenditure (billion.tug) Health sector expenditure as % of GDP-revised estimation. Health sector expenditure as % of GDP-old estimation

Figure 11.1.1. Expenditure of Health sector as share of GDP

Source: Ministry of Finance and Economic Department and NSC

The National Statistics Office has amended the estimation of the gross domestic product (GDP) 3 times in 2006, 2010 and 2014 and revised the method of estimating GDP and Gross National Income in 2007 and 2013 and amended 5 times.

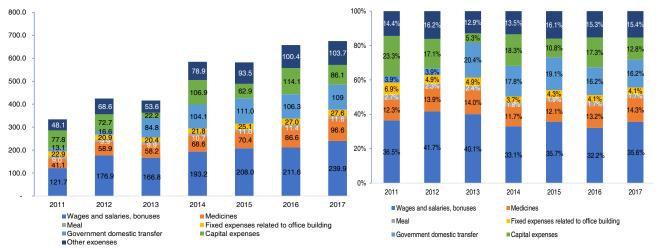
The GDP has increased according to the estimation of the revised methodology and the amended calculation of Gross National Income and Gross Domestic Product.

The share of healthcare expenditure to the revised estimation of GDP has declined as compared to the previous estimation.

The healthcare expenditure has increased by amount and equivalent to 2.5% of GDP in 2017.

Figure 11.1.2.A. Total health sector expenditure by line items (billion MNT)

Figure 11.1.2.B. Total health sector expenditure by line items (percentage)



Source: Ministry of Finance and Economic Department of the Ministry of Health

Considering by 6 economic categories, the most healthcare expenditures have increased, but the capital expenditure has decreased.

In 2017, the share of capital expenditure has decreased by 1.3 times as compared to 2016 and it has fluctuated significantly.

"Standard cost per citizen" or expenditures of family health centers have been allocated to the expenditure of the Government internal transfer until 2012. Since 2013, expenditure on soum health centers has been allocated to this expenditure, so, it has increased significantly.

In 2016, the Sports sector was separated from the Health sector and transferred to the Ministry of Education, Culture, Science and Sports. And the expenditure of the Government internal transfer has decreased by 1.2 times in 2016 as compared to 2015. However, the expenditure has increased by MNT 2.7 billion in 2017 as compared to 2016.

Looking at the sector's total expenditure by financial classification, salaries and incentives are accounted for the highest proportion of health expenditure.

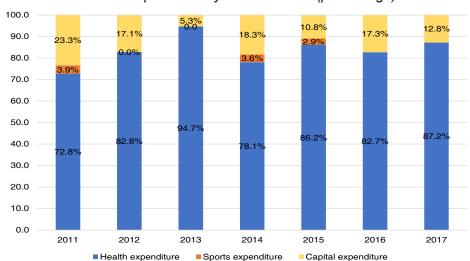


Figure 11.1.3. Total Health sector expenditure by main activities (percentage)

Source: Ministry of Finance and Economic Department of the Ministry of Health

The last 2 years data shows that healthcare expenditure was equivalent to 82.7% in 2016, it has increased to 87.2% in 2017 and the capital expenditure has decreased from 17.3% to 12.8%.

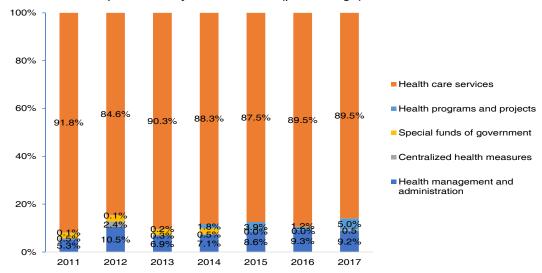


Figure 11.1.4. Health expenditure by sub activities (percentage)

Source: Ministry of Finance and Economic Department of the Ministry of Health

Health expenditure by sub-category indicates that expenditure on health care services accounted for 89.5% of total funding in 2016, and remained at the same level in 2017 as in the previous year.

The expenditure on health management has decreased by 0.1% from 9.3% to 9.2% and the expenditure on health programs and projects has increased by 3.8% from 1.2% to 5.0%, respectively.

During the years of 2014 and 2015, there was no expenditure on the Government Special Funds, however, the special fund expenditure was MNT 2.97 billion (0.5%) in 2017.

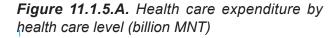
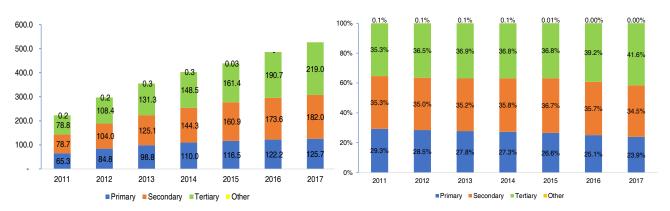


Figure 11.1.5.B. Health care expenditure by health care level (percentage)



Source: Ministry of Finance and Economic Department of the Ministry of Health

In regard to health expenditure by level of care, a share of the expenditure has increased by 5.2 billion MNT in primary health care level, by 12.6 in secondary level and by 23.5 in tertiary level with an annual average over the last 3 years. In 2017, a share of the expenditure has increased by 3.5 billion MNT for primary health care providers, by 8.4 for secondary health care providers and by 28.3 for tertiary health care providers, respectively as compared to the previous year.

The dynamics of the last five years indicates that 23.9-27.8% of total funding was expended for providers of primary health care service, 34.5-36.7% for providers of secondary health care service, 36.8-41.6% for providers of tertiary healthcare service and 0-0.1% for other organizations, respectively.

The share of healthcare expenditure on primary health care has decreased by 5.4%, from 29.3% to 23.9% between 2001 and 2017.

The share of healthcare expenditure on secondary health care was equivalent to 35.3% in 2011, while it has decreased by 0.8% as estimated at 34.5% in 2017.

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

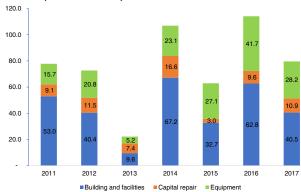
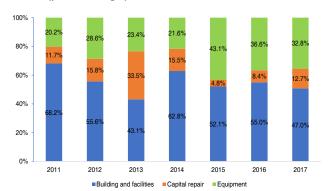


Figure 11.1.6.B. Capital expenditure by type of asset (percentage)



Source: Ministry of Finance and Economic Department of the Ministry of Health

The share of expenditure on tertiary health care was 35.3% in 2011, while it has increased by 6.3% as reported at 41.6% in 2017.

Capital expenditures are grouped that funds paid out for buildings, renovation, vehicles, equipment and others. The share of capital expenditures on these groups has fluctuated significantly, so, it can be seen that there is a lack of regulation of sustainable investment policy. The share of capital expenditure, which accounted for 43.1-62.8% for building, 4.8-33.5% for renovation, 20.2-43.1% for automobiles and equipment, respectively.

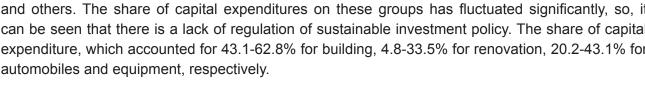
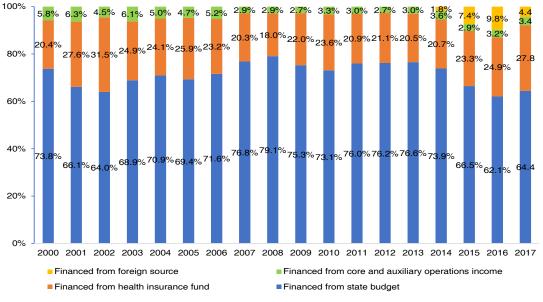


Figure 11.1.7. Financing sources of health and sports expenditure (percentage)



Source: Ministry of Finance and Economic Department of the Ministry of Health

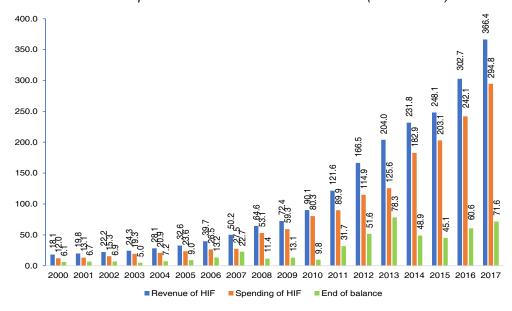
Funding sources of the health sector are the State budget, Health Insurance Fund, basic income and subsidies, and external funding.

Since 2014, external funding sources have been registered and expended for medical care, public health programs and investment activities.

As of 2017, the percentage of funding sources is as follows: 64.4% the State budget, 27.8% Health insurance fund, 3.4% basic income and subsidies and 4.4% external funding.

11.2. INCOME AND EXPENDITURE OF HEALTH INSURANCE FUND

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



In 2017, a total income of health insurance fund was 366.4 and expenditure was 294.8 billion MNT, there were remaining of 71.6 billion MNT. An average, 76.4% of total revenue has been expended per year.

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

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



Revenues of the Health Insurance Fund are raised through two sources: insurance premiums and other incomes As of 2017, income from health insurance premium was amounted at MNT 318.1 billion and other incomes were amounted at MNT 46.3 billion.

Other income sources of the fund include act, payment of transaction, bank saving interest of free balance of the fund and donations from international donor organizations.

Out of total income of health insurance fund in 2017, 35.7% of premium paid by insured, 35.1% of premium paid by employers, 15.8% of premium paid by Human Development Fund/State budget and 12.4% of revenue from other income source such as bank saving interest of free balance of the fund.

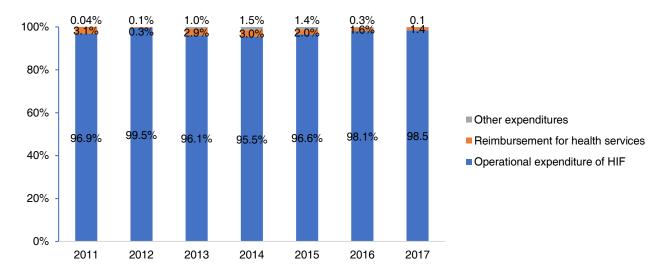


Figure 11.2.3. Expenditure of Health insurance fund (percentage)

In regard to the fund expenditure, 95.5-99.5% of expenses for the insured for receiving health care service, 1.4-3.0% of expenses for functions of the organizations and 0.1% of expenses for others. The fund expenditure has decreased by 0.2% as compared to the previous year.

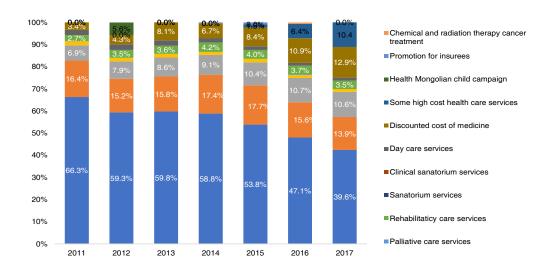


Figure 11.2.4. Reimbursement for health services by classification of health care services (percentage)

The expenditures of Health insurance fund in 2017 by service summarized as follows: 39.6% for hospital/inpatient treatment service, 13.9% for ambulatory treatment service, 12.9% for necessary drug discount, 10.0% for diagnosing and testing, and 23.6% for other aids and service. The expenses for hospital/inpatient treatment service has decreased from 66.3% to 39.6%.

Table 11.2.1. Expenditure of inpatient and day care health services financed by health insurance fund for insurers, as planned (10 most expensive diagnosis related group), 2017

Order	Diagnosis-related group	Thousand people	Billion tugrik
1	Hypertensive diseases	46.6	11.1
2	Diseases of renal and urinary, nephrit	40.0	10.0
3	Pneumonia, disease of pulmonary	41.0	8.9
4	Disease of respiratory	62.7	6.6
5	Other disorders of the nervous system	25.8	5.9
6	Operation of spine, joint and organs injure	23.2	4.7
7	Myocardial infarction, ischaemic embolism, pericarditis	9.1	4.2
8	Diseases of noninfective gastric and intestinal	13.1	3.9
9	Arthritis, arthropathy, other disorders of joint	14.9	3.7
10	Chronic disease of liver	13.5	3.2
	Total	290.0	62.2

As of 2017, expenses for 10 leading causes accounted for the highest proportion of the total expenditures on hospital/inpatient treatment and a day treatment aids and service funded by health insurance fund (table 11.2.1). The expenses for 10 leading causes accounting 51.7%, of total estimated expenditure for these healthcare services.

Table 11.2.2. Main indicators of health sector expenditure

lable 11.2.2. Mail Malcalots of Health Sector Experionale	ט וופשוווי	פבמח בצלי	בוומוומום								
Indicators	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
GDP, by production approaches, at current price (million tugrik)	4 956 647.2	4 956 647.2 6 555 569.4	6 590 637.1		13 173 763.4	9 756 588.4 13 173 763.4 16 688 419.6 19 174 242.6 22 227 054.3	19 174 242.6	22 227 054.3	66,779.1	23,886,409.5 27,167,034.7	27,167,034.7
Total health and sports expemditure (million tugrik)	155 400.0	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	657,478.0	674,392.3
Health and sports expenditure as % of GDP	3.1	3.2	3.1	2.6	2.5	2.5	2.2	2.6	2.5	2.8	2.5
Total health and sports expemditure per capita (tugrik)	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	217,214.3	212,213.3
Financing source of health end sports expenditure (million	orts expen	nditure (milli	on tugrik)					-			
State budget	118 900.0	118 900.0 167 680.3	154 356.2	183 939.8	236 443.9	310 604.8	318 346.3	438 232.1	386,847.1	409,356.7	435,061.5
HIF	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	164,436.8	187,605.4
Core and auxiliary operations income	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	20,769.2	22,870.6
Foreign source	1	1	1	ı	1			10 850.8	42,821.2	64,757.9	29,679.0

Table 11.2.3. Health sector expenditure by line items (MNT)

Line Items	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total expenditure	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	657,500.0	674,392.3
Wages and salaries, bonuses	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	211,600.0	211,600.0 239,864.69
Medicines	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	86,648.8	11,566.40
Meal	3 577.1	4 100.0	5 814.1	6 911.5	9.777.7	9 011.3	9 933.1	9 859.1	10 677.2	11 041.4	11,424.8	109,024.43
Fixed expenses related to office building	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	26,968.8	96,552.90
Government domestic transfer *	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	106,330.8	27,585.60
Capital expenses	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	114,060.3	86,130.92
Building and facilities	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	62,789.5	40,457.0
Capital repair	886.9	1 756.5	4 593.2	5 434.9	7 631.0	9 060.3	11 457.2	7 426.6	16 589.5	3 003.3	9,569.3	10,945.0
Equipment	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	41,695.1	28,244.2
Other expenses	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	100,446.5	103,667.32

 Table 11.2.4. Composition of health sector expenditure (MNT)

Health and Sports expenditure	2013	2014	2015	2016	2017
Health expenditure	393 662.0	456 415.3	501 823.2	543,417.8	588 394.1
Health management and administration	27 034.2	32 618.0	43 150.3	50,535.6	53 919.7
Health care services	355 565.6	403 125.5	438 897.0	486,401.8	526 726.7
Family health centers	04.770.0	04.055.0			
Soum health centers	84 776.0	94 655.2	101 279.3	106,330.8	109 024.4
Village health centers	1 081.6	1 147.2			
Inter-soum hospitals	12 982.2	14 187.3	15 260.5	15,826.8	16 683.5
Ambulance service center	5 494.7	5 766.4	6 151.3	6,663.4	7 076.8
Zoonotic disease centers of provinces	2 818.3	2 982.6	3 156.7	3,238.6	3 358.3
Centers of traditional medicine and sanatoriums of provinces	1 471.7	1 741.8	1 838.6	1,885.7	2 054.4
Maternity hospitals	9 766.7	12 094.3	13 634.2	14,930.9	15 769.0
Rural general hospital	66 142.4	7 969.7	9 126.4	9,780.8	10 640.4
Province general hospitals	00 112.1	70 825.3	78 901.8	83,752.4	91 541.3
District health centers and general hospitals	34 521.6	37 697.3	42 103.8	47,481.4	45 263.5
Other hospitals under UB health department	4 920.8	5 268.3	5 989.9	5,847.5	6 269.0
RDTC	26 455.2	28 275.1	30 958.2	32,946.4	34 692.0
Central hospitals	34 129.5	38 571.0	44 828.8	58,651.6	68 991.4
Specialized centers	69 389.5	80 182.3	84 130.1	97,505.1	113 693.8
Institute of traditional medicine and technology	1 363.9	1 504.6	1 510.0	1,560.4	1 668.7
Others	251.4	257.0	27.4	-	-
Centralized health measures	1 023.7	2 271.9	-	-	-
Special funds of government	9 410.7	10 375.0	128.9	-	2 967.6
Health programs and projects	627.8	8 024.9	19 646.9	6,480.2	29 411.5
Sports expenditure	-	20 878.7	17 157.8	-	-
Capital expenditure	22 161.8	106 870.7	62 870.5	114,060.3	85 998.2
Total expenditure	415 823.8	584 164.7	581 851.5	657,478.1	674 392.3

Table 11.2.5. Health insurance fund income, expenditure

Table 11.2.5. Health		12		13	Aperiuit 20		20	015	20	016	20	017
	20	12	20	10	20	17	20	713	20	710	20	,17
Indicators	Thousand people	(million MNT)										
Revenue of health insurance fund	2 593.6	166 500.8	2 864.5	203 954.2	3 064.8	231 800.2	3 003.7	248 130.7	2,966.3	302,676.9	2,983.9	366,423.4
Premium paid by the insurees	1 123.8	65 681.0	1 206.3	80 596.0	1 241.3	92 995.2	1 204.8	96 114.6	1,374.4	112,153.9	1,224.9	130,929.5
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	-	-	836.5	110,990.5
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	-	-	388.4	19,939.0
Premium paid by the employers		78 375.0		92 417.1		102 420.0		106 726.7	-	113,730.3	-	128,719.2
Premium subsidized by state budget	1 469.8	12 151.5	1 658.3	12 151.5	1 823.5	12 033.2	1 798.9	12 040.2	1,591.9	44,469.1	1,759.0	58,064.8
Income generated by penalties		9 341.8		17 695.7		22 896.8		32 249.6	-	31,800.0		408.1
Interest of health insurance surplus placed in bank account		669.6		590.3		883.9		643.7	-	-	-	45,617.1
Fee fro premium overdue		215.4		308.2		468.3		279.8	-	454.5	-	214.5
Others		66.4		195.4		102.6		76.1	-	69.0	-	2,470.1
Expenditure of health insurance fund by classifiaction of health services		114 898.9		125 636.0		182 919.3		203 070.5	5,708.11	246,778.3	6,860.85	294,851.0
Reimbursement for health services by classification of health services, actual		114 357.7		120 737.4		174 680.9		196 133.5	5,708.1	242,077.6	6,860.8	290,370.3
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	-	242,077.6	6,860.8	294,851.0
Inpatient care services	362.3	67 516.9	374.1	72 187.8	419.1	102 733.1	427.0	105 733.6	462.6	113,971.9	474.3	116,671.1
Outpatient care services	1 636.8	17 286.4	1 755.1	19 091.2	1 971.6	30 434.3	2 242.0	34 849.2	2,411.1	37,854.8	2,653.4	41,109.1
Diagnostic procedures and laboratory tests	716.0	8 947.6	753.6	10 369.9	861.9	15 808.8	939.1	20 371.3	1,116.6	25,940.1	1,544.9	31,113.3
Traditional medicine	20.6	1 853.7	22.0	2 044.0	20.6	2 327.8	26.0	2 966.2	28.1	3,193.5	29.8	3,409.9
Palliative care services	0.1	11.5	0.1	10.8	0.2	61.1	0.4	123.9	2.9	870.8	5.0	1,489.9
Rehabilitative care services	55.8	4 017.8	58.7	4 342.8	67.7	7 402.3	71.4	7 847.3	-	9,035.4	94.0	10,351.9
Sanatorium services	54.9	3 955.3	57.4	4 244.9	66.8	7 298.1	70.5	7 748.1	82.1	9,035.4	92.2	10,140.4
Clinical sanatorium services	0.9	62.6	1.3	97.8	0.9	104.2	0.9	99.2	-	-	1.9	211.5
Day care services	24.5	2 931.3	24.8	3 033.2	28.4	3 444.4	27.8	3 383.6	25.5	3,106.4	30.5	3,729.2
Discounted cost of medicine	706.9	4 886.4	854.5	9 727.4	1 073.3	11 634.6	1 286.3	16 450.8	1,564.9	26,291.0	1,580.3	38,114.9
Some high cost health care services	-	-	-	-	-	-	2.1	3 036.4	11.4	15,562.0	18.6	30,566.0
Family health centers	-	-	-	-	-	-	-	-	-	-	-	-
"Healthy Mongolian Child" campaign	603.3	6 335.1	-	-	-	-	-	-	-	-	-	-
Элэгний С вирусын ачаалал тоолох	-	-	-	-	-	-	-	-	-	-	63	6.6
Элэгний В. С вирусын илрүүлэг	-	-	-	-	-	-	-	-	-	-	303	0.8
Урьдчилан сэргийлэх, эрт илрүүлэх үзлэг, оношилогоо, шинжилгээ /багц/	-	-	-	-	-	-	-	-	-	-	42	2.1
Төр төлбөрийг нь хариуцах эрүүл мэндийн тусламж, үйлчилгээний зардал / Гемодиализ/	-	-	-	-	-	-	-	-	-	-	18	2.3
Promotion for insurees	-	-	0.3	6.4	9.3	746.4	20.4	1 629.7	-	-	-	-
Operational expenditure of HIF		398.2		3 693.7		5 491.0		4 114.0		3,913.9		4,110.9
Other expenditures		143.0		1 204.9		2 747.4		2 823.0		786.7		369.8
Expenditure of health insurance												
fund by property type*		113 786.6		120 813.5		174 592.7		196 392.1		54,765.8		0.0
Public health organizations		89 374.7		89 760.2		128 768.0		141 626.2		54,765.8		-
Private health organizations		24 411.9		31 053.4		45 824.8		54 765.8		-		-
Annual surplus of HIF Average health insurance coverage	90.	51 601.9 4%	97.	78 318.2 7%	102	48 880.9 .3%	98	45 060.2 .1%	86	55,898.6 .8%	95	71,572.4 .6%

Table 11.2.6. In 2017 Planned expenditure of health insurance fund by DRG

DRG cod	DRG name	Number if person	Expenditure
1	Haemorrhage, cerebral infarction	4,241	1,073,533,610
2	Cerebrovascular disease, stroke and it's siquelae	13,499	3,195,060,823
3	Disease of nerve, nerve peripheral nervous system	8,122	1,667,976,214
4	Meningitis	223	78,859,214
5	Seizures, convulsions, status epilepticus	4,473	1,379,914,338
6	Migraine and Other headache syndroms	14,099	3,036,114,691
7	Other disorders of nervous system	23,168	4,699,002,421
8	Operations of brain, spinal, peripheral nerve	401	247,971,711
9	Disorders of globe and lens	818	150,757,610
10	Disorders of eye	859	153,319,839
11	Disorders of eye reason of nerve	287	49,247,595
12	Other disorders of eye	541	94,566,109
13	Operations of eye	5,928	1,566,573,405
14	Disorders of vestibular function and deafness	947	142,456,118
15 16	Diseases of ear, nose and tube	4,536	918,260,841
	Other diseases of ear, nose, mouth and tube	11,768	2,312,362,722
17	Operations of ear, nose, mouth, tube and upper respiratory	1,644	409,387,916
18	Other operations of ear, nose, mouth, tube and tubotympanic organs	5,371	1,279,546,279
19 20	Diseases of respiratory system Pneumonia, infection of pulmonary	25,829 46,631	5,904,758,011 11,101,178,853
21	Asthma, Status asthmaticus, Bronchiectasis	2,568	478,169,062
22	Disorders of interstitial pulmonary, pleural	2,300	57,922,445
23	Emphysema, pneumothorax, effusion and other diseases	3,757	1,003,917,315
24	Operation of thoracic	140	55,357,943
25	Injury of intrathoracic organs and intra-abdominal organs	384	98,352,576
26	Myocardial infarction, ischaemic embolism, pericarditis	14,916	3,676,745,434
27	Heart failure, complications	250	56,079,084
28	Disorders of veins, thrombosis, thrombophlebitis	1,771	217,570,462
29	Disorders of aortic and arterial	153	34,456,400
30	Atherosclerosis	1,946	390,393,631
31	Hypertensive diseases	40,041	10,035,441,379
32	Disorders of rheumatic heart and valve	1,490	291,995,636
33	Disorder of cardiac arrhythmias and conduction	613	118,318,255
34	Angina pectoris	6,555	1,272,017,826
35	Cardiomyopathy, myocarditis, rheumatic disease	5,269	1,085,103,241
36	Other disorders of the circulatory system	232	39,270,859
37	Operation of heart	90	68,249,422
38	Operation of vessels	4,267	1,398,211,036
39	Diseases of tooth and oral cavity, treatment of dental caries	2,129	313,911,946
40	Operations of face and floor of mouth	262	112,800,137
41	Peritonitis, disorder of intestine	176	47,306,898
42	Disorders of appendix	393	100,446,372
43	Operation of acute appendicitis	10,610	2,688,788,834
44	Inguinal and Femoral hernia	101	20,584,815
45	Other hernia	39	10,326,184
46	Operation of hernia	1,572	405,559,924
47	Gastric and intestinal ulcer, diverticular disease of intestine	11,377	2,332,310,532
48	Operation of gastric ucler	132	59,141,823
49	Disorder of oesophagus	718	139,285,325
50	Vascular disorders of intestine and other diagnosis of intestine	150	42,591,420
51	Intestinal ileus and obstruction	305	66,039,096
52	Diseases of noninfective gastric and intestines	11,476	3,080,385,768
53	Other diseases of digestive system	1,302	277,585,128
54	Operation of enteritis and colitis	876	273,112,593
55	Toxic, cirrhosis and failure of liver	9,125	2,212,305,891
56	Disorder of pancreas	5,706	1,284,858,749
57	Operation of liver and pancreas	128	74,112,180
58	Chronic disorders of liver	13,179	2,930,630,772
59	Disorders of biliary tract	4,347	930,371,386
60	Operation of biliary tract	2,719	1,340,826,809
61	Endoscopic operation of digestive tract	5,021	1,432,983,080

DRG cod	DRG name	Number if person	Expenditure
62	Other operation of digestive tract	2,333	734,549,188
63	Injury, amputation, crushing of organs	246	65,109,518
64	Operation of spine, joint and other organs injury	9,130	4,164,030,517
65 66	Superficial injury and open wound of organs, injury of nerve, vessels and tendon Fracture, dislocation, sprain and strain	6,199 4,357	1,662,555,307 1,305,083,210
67	Osteomyelitis, osteoporosis, osteomalacia and other osteopathies	845	203,104,309
68	Disorder of spinal	7,711	1,426,235,091
69	Arthritis, arthropathy, other disorders of joint	13,861	3,174,581,683
70	Other injuries and it's sequelae	1,735	385,357,027
71	Other operations not elsewhere classified	5,042	1,418,594,860
72 73	Pyoderma and mycoses of skin Diseases of Pemphigus and Bullous of skin	7,040 80	1,607,792,739 16,675,438
74	Disease of skin reason of allergy	12,853	2,320,755,070
75	Diseases of skin appendages	167	30,104,527
76	Other diseases of skin	1,694	344,259,839
77	Diabetes mellitus, nutritional and metabolic disorders	13,105	3,872,454,167
78	Other disorders of endocrine	1,192	339,910,826
79	Operation of thyroid gland	414 98	91,245,567
80 81	Operation of endocrine, nutritional and metabolic diseases Renal failure	1,003	37,998,600 267,347,696
82	Disorders of the genitourinary system	40,950	8,943,910,001
83	Operation of kidney	154	55,765,803
84	Calculus of kidney and ureter	425	104,635,613
85	Operation of calculus of kidney	32	14,908,644
86	" Symptoms and signs involving the urinary system "	557	137,768,251
87	Other disorders of kidney and ureter	1,458	340,925,704
88 89	Endoscopic operation of genitourinary organs Operation of bladder	1,423 43	384,841,117 13,849,446
90	Other operations of kidney and ureter	121	41,325,541
91	Diseases of male genital organs	1,705	401,245,489
92	Operation of prostate	199	72,454,065
93	Other operations of male genital organs	1,091	367,956,336
94	Inflammatory diseases of female pelvic organs	8,274	1,499,564,492
95	Other diseases of female pelvic organs	6,759	1,440,322,829
96 97	Operations of pelvic peritoneal Endoscopic operation of female	648 704	221,694,542 116,069,988
98	Other operation of female	2,168	475,446,495
99	Benign neoplasms, polyp	2,345	482,863,327
100	Coagulation defects	249	61,302,585
101	Anaemias	1,034	211,906,129
102	Other disorders of blood and blood-forming organs	1,233	221,462,104
103 104	Poisoning by drugs and others, adverse effects Burns, frostbite, Chilblains	212 1,847	62,961,664 624,892,987
104	Foreign body entering through natural orifice, unspecified injuries	1,047	43,193,101
106	Congenital malformations, deformations and chromosomal abnormalities	1,708	493,660,636
107	Factors influencing health status and contact with health services	279	58,490,623
108	Non-operational outpatient visit	1,562,970	23,444,957,236
109	Diagnostic procedures and laboratory tests	1,090,395	17,664,085,014
110	Traditional medicine Palliative care services	1,544,917	31,113,421,222
111 112	Sanatorium services	29,833 5,029	3,409,858,215 1,489,857,486
113	Clinical sanatorium services	92,317	10,144,139,903
114	long term rehabilitative care services	1,264	146,979,184
115	Long-term rehabilitation services	459	60,772,544
116	Өндөр өртөгтэй тусламж үйлчилгээ	18,580	30,590,619,514
117	Хорт хавдрын химийн өдрийн эмчилгээ	3,552	1,598,400,000
118	Хорт хавдрын туяаны өдрийн эмчилгээ	224	331,650,000
119	Эмийн үнийн хөнгөлөлт	1,580,303	38,114,976,055
120		-	
121	Төр төлбөрийг нь хариуцах эрүүл мэндийн тусламж, үйлчилгээний зардал / Гемодиализ/	16,743	2,092,875,000
122		1,675	196,700,275
123	Элэгний В.С вирүсийн илрүүлэг	303,027	848,475,600
124	Элэгний С вирүсийн ачаалал тоолох	1,570	125,060,000
125	Элэгний С вирусийн ачаалал тоолох	61,133	6,518,505,000
126	Урьдчилан сэргийлэх /Багц/	42,063	2,103,150,000
Total		6,860,849	290,370,330,927



HEALTH STATISTICAL INDICATORS, 2007-2017 YEAR

NUMBER OF BIRTHS

읟	Province/city	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
~	Arkhangai	1742	1989	2045	1946	2005	1973	2101	2170	2037	1951	1890
7	Bayan-Ulgii	2520	2647	2558	2459	2569	2568	2783	2801	2761	2838	2844
က	Bayankhongor	1725	2046	2047	1874	2098	2119	2308	2174	2125	1960	1997
4	Bulgan	814	942	1060	975	962	953	1023	666	985	868	825
2	Govi-Altai	1209	1365	1374	1303	1310	1373	1376	1265	1284	1176	1216
9	Govisumber	286	304	361	379	352	443	478	488	442	446	416
7	Darkhan-Uul	1951	2163	2592	2469	2496	2609	2680	2843	2628	2476	2249
∞	Dornogovi	1119	1239	1337	1288	1348	1405	1502	1483	1534	1426	1318
6	Dornod	1481	1796	1927	1842	1993	1923	1972	1982	1958	2067	1922
10	Dundgovi	894	978	1085	864	992	811	890	947	966	955	878
Ξ	Zavkhan	1553	1811	1878	1656	1383	1448	1501	1612	1628	1413	1321
12	Orkhon	1875	2232	2489	2294	2570	2581	2891	2826	2680	2598	2566
13	Uvurkhangai	2424	2734	2942	2752	2511	2582	2779	2742	2741	2664	2417
4	Umnugovi	806	1176	1280	1167	1213	1293	1536	1439	1509	1401	1297
15	Sukhbaatar	945	1038	1192	1149	1288	1248	1217	1329	1395	1251	1275
16	Selenge	1518	1713	1848	1896	1859	1932	1924	2024	1945	1826	1712
17	Tuv	765	911	934	922	923	1126	1238	1325	1279	1226	1192
18	Uvs	1792	2253	2379	1953	1964	2041	1994	2110	1996	2027	2029
19	Khovd	2012	2240	2227	2076	2396	2346	2364	2306	2312	2208	2196
20	Khuvsgul	2513	3043	3149	2933	3108	3186	3297	3306	3119	2963	2767
21	Khentii	1304	1441	1560	1388	1483	1490	1611	1630	1633	1638	1442
22	Province average	31350	36061	38264	35585	36597	37450	39465	39801	38987	37378	35769
23	Ulaanbaatar	24284	27026	30280	30075	33731	37024	39906	41427	41447	40425	38115
24	24 National average	55634	63087	68544	65660	70328	74474	79371	81228	80434	77803	73884

NUMBER OF LIVE BIRTHS

2180
2789
7
$^{\circ}$
35
1 35
35 1 25 35
38 75 7 88
1008 1265 2855 2855 1084
1024 1387 479 2698 1509
962 1370 443 2634
964
826
_
1725 2043 2058
2043
2609

MATERNAL MORTALITY, / PER 100 000 LIVE BIRTHS /

읟	Province/city	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
~	Arkhangai	57.4	0.0	48.8	51.3	49.7	50.4	0.0	45.9	0.0	102.2	0.0
7	Bayan-Ulgii	241.4	76.7	198.6	41.4	78.6	117.8	144.8	35.9	72.2	35.3	35.1
က	Bayankhongor	173.9	48.9	97.2	0.0	0.0	188.3	0:0	137.4	46.9	101.7	0.0
4	Bulgan	0.0	0.0	187.3	0.0	103.7	0.0	0.0	0.0	0.0	0.0	0.0
2	Govi-Altai	411.9	0.0	72.5	7.92	76.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Govisumber	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	Darkhan-Uul	50.9	46.0	0.0	0.0	0.0	38.0	37.1	0.0	0.0	40.2	0.0
œ	Dornogovi	0.0	80.5	0.0	0.0	0.0	0.0	66.3	0.0	0.0	0.0	0.0
တ	Dornod	67.3	55.6	0.0	0.0	50.0	52.0	0.0	0.0	0.0	0.0	0.0
10	Dundgovi	111.5	101.5	91.5	0.0	0:0	0.0	0:0	0.0	0.0	0.0	0.0
7	11 Zavkhan	64.6	110.9	159.8	9.09	72.6	206.6	66.1	0.0	0.0	0.0	150.5
7	Orkhon	107.1	0.0	39.9	86.7	38.7	38.6	0.0	35.3	0.0	0.0	0.0
73	Uvurkhangai	123.4	36.6	6.79	0.0	159.4	38.6	35.9	0.0	36.3	74.8	0.0
4	Umnugovi	329.3	0.0	78.0	169.8	0.0	0.0	0.0	69.4	66.4	212.9	76.9
15	Sukhbaatar	0.0	0.0	168.1	0.0	77.1	79.4	0.0	0.0	0.0	158.5	78.4
16	Selenge	0.0	58.4	54.2	52.4	107.6	51.5	0.0	0.0	51.1	108.9	0.0
17	Tuv	0.0	0.0	321.9	0.0	0.0	177.5	0.0	0.0	78.5	82.1	0.0
8	Uvs	55.7	44.2	0.0	205.5	0.0	0.0	0.0	0.0	0.0	0.0	49.1
19	Khovd	0.66	44.6	8.68	96.4	83.6	0.0	84.3	86.2	0.0	90.1	45.2
20	Khuvsgul	39.9	32.7	94.9	34.1	64.2	31.3	91.0	30.1	32.0	101.2	0.0
2	Khentii	76.7	138.4	127.0	0.0	0.0	133.7	0.0	0.0	61.2	0.0	69.2
22	Province average	102.0	44.3	83.5	44.9	51.8	58.6	32.8	25.0	23.0	56.0	22.3
23	Ulaanbaatar	73.7	55.2	78.9	46.2	44.2	43.0	52.3	35.9	28.8	41.8	31.2
24	National average	9.68	49.0	81.4	45.5	48.2	50.8	42.6	30.6	26.0	48.6	26.9

INFANT MORTALITY RATE, / PER 1 000 LIVE BIRTHS /

2017	16.8	13.3	15.5	10.8	16.4	7.2	10.6	12.8	13.4	0.1	16.6	5.0	16.1	16.1	17.3	11.0	10.0	18.7	16.7	22.0	19.4	14.5	12.7	
2015 2016	14.1	24.9 27.9	1 23.9	17.2 13.8	13.1 16.2	13.5 15.6	10.2	12.3 14.6	7.6 11.1	7.0 16.8	25.8 15.5	12.2 12.6	14.2 20.6	16.6 19.2	18.6 22.2	8.2 14.7	13.3 20.5	20.4 21.6	20.8 18.9	28.3	15.3	15.9 18.8	14.7 15.0	
2014 20	13.3	23.7 24	15.1	20.8	24.5	6.1 13	7.0 10	13.4	9.6	16.9	23.5 25	14.5	12.7	20.1	20.3	6.4 8.	16.5	18.8 20	19.4 20	16.0 22.4	15.3	15.7 15	15.0	
2013	18.4	17.4	18.1	17.6	25.2	14.6	8.2	15.2	13.1	10.1	17.9	11.3	14.7	16.8	15.5	7.8	13.7	17.0	14.3	23.1	18.0	15.7	13.6	
2012	19.6	23.2	14.1	18.7	20.4	11.3	8.0	16.3	14.6	11.0	22.7	14.7	23.2	16.9	22.2	6.7	19.5	15.2	18.3	26.0	16.0	17.5	13.1	
2011	16.4	24.7	19.5	11.4	24.3	8.5	9.2	13.3	20.0	13.1	22.5	13.5	27.1	19.7	18.5	5.4	27.1	23.4	18.4	29.9	18.7	19.2	13.3	
3 2010	26.2	22.8	3 26.5	20.4	3 20.7	2.7	8.1	24.7	20.0	21.9	26.7	14.7	28.3	22.1	21.6	8.4	25.9	33.4	24.1	29.7	19.5	22.1	16.1	
2008 2009	28.6 25.9	17.6 27.0	26.9 22.8	13.7 18.7	25.8 26.8	29.6 22.2	10.6 9.6	30.6 21.8	16.7 17.1	14.2 20.1	20.5 22.9	17.8 15.6	31.5 23.1	23.7 21.1	23.1 18.5	7.6 14.1	7.6 18.2	22.1 30.6	16.1 18.9	27.2 29.4	27.7 29.2	21.2 21.9	17.5 18.0	
2007	17.8	18.5	20.9	22.0	30.5	3.5	8.2	23.0 3	18.9	14.5	19.4	16.1	28.4 3	22.0 2	20.0	9.5	5.2	35.1	18.8	29.5	17.6	20.3	14.7	
Province/city	Arkhangai	Bayan-Ulgii	Bayankhongor	Bulgan	Govi-Altai	Govisumber	Darkhan-Uul	Dornogovi	Dornod	Dundgovi	Zavkhan	Orkhon	Uvurkhangai	Umnugovi	Sukhbaatar	Selenge	Tuv	Uvs	Khovd	Khuvsgul	Khentii	Province average	Ulaanbaatar	
읟	←	2 B	S B	4 B	5 G	9	7 D	8	6	10 D	11	12	13 U	14 U	15 S	16 S	17 Tı	18 U	19 X	20 K	21 K	22 P	23 U	

PERINATAL MORTALITY RATE, /PER 1 000 BIRTHS/

4 Anthengal 15 G 18 G	읟	Province/city	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Bayan-Ugili 36.0 28.6 28.3 30.7 33.9 23.5 22.6 16.5 16.9 18.4 18.4 24.7 16.9 13.1 15.8 17.7 14.0 10.6 18.4 18.4 24.7 16.9 16.9 18.4 18.4 18.9	~		15.9	18.5	17.0	20.4	13.8	12.5	15.1	13.2	9.7	12.7	10.5
Bayaankhongor 18.4 24.7 16.9 20.0 16.4 15.7 16.9 16.9 16.9 18.9 17.7 14.0 10.6 Bulgan 20.6 7.4 12.1 8.2 16.4 14.5 12.6 18.8 16.9 18.9 16.9 18.9 16.9 18.9 16.9 18.9	7	Bayan-Ulgii	36.0	29.6	28.3	30.7	33.9	23.5	22.8	18.5	16.9	16.8	13.2
Budgant 206 74 12.1 82 16.4 14.5 1	က	Bayankhongor	18.4	24.7	16.9	20.0	16.0	13.1	15.8	17.7	14.0	10.6	4.11
Cook-Altaji 205 776 165 183 21.1 188 180 227 92 162 162 Govisumbert 7.0 195 11.1 7.9 56 6.8 125 8.1 8.9 6.6 9.0 Darkthan-Uull 3.1 6.9 8.8 8.4 9.5 7.2 9.6 7.7 9.4 8.6 6.6 9.0 Darkthan-Uull 2.0 2.2 2.8.7 2.5 1.0 9.7 9.4 8.4 9.6 7.7 9.6 6.6 9.0 9.0 6.6 9.0	4	Bulgan	20.6	7.4	12.1	8.2	16.4	14.5	12.6	13.8	16.1	12.5	7.2
Covisiumber 7.0 19.5 11.1 7.9 5.6 6.8 12.5 8.1 8.4 9.5 7.7 9.6 8.4 9.6 7.7 9.6 7.7 9.4 8.4 9.5 7.2 9.6 7.7 9.4 8.4 9.4 9.5 7.7 9.4 8.4 9.4 9.7 9.4 8.4 9.4	2		20.5	27.6	16.5	18.3	21.1	18.8	18.0	22.7	9.2	15.2	14.7
Dunndgovin 3.1 6.9 8.8 8.4 9.5 7.2 9.6 7.7 9.4 8.4 9.9 Dunndgovin 20.2 28.7 26.7 11.0 8.5 16.2 10.7 9.7 11.1 7.1 Dunndgovin 15.4 18.2 15.6 17.5 15.6 14.9 16.5 12.0 13.5 10.7 11.1 11.1 7.1 12.8 16.9 16	9	Govisumber	7.0	19.5	11.1	7.9	5.6	6.8	12.5	8.1	8.9	9.9	4.8
Domogovit 26.2 28.7 26.3 10.7 8.5 16.5 11.0 8.5 16.5 11.1 11.1 11.1 11.1 11.2 15.5 15.6 14.9 16.5 12.0 13.5 8.6 10.1 11.1 11.1 7.1 12.8 14.9 16.5 12.2 8.9 13.6 4.0 16.7 16.8 16.7 16.8 16.7 16.8 16.7 16.8 16.7 16.8 16.7 16.8 16.7 16.8 16.9 16.9 16.7	7	Darkhan-Uul	3.1	6.9	8.8	8.4	9.5	7.2	9.6	7.7	9.4	8.4	9.3
Doundoth 15.4 18.2 17.5 15.6 14.9 16.5 12.0 13.5 8.6 10.1 10.1 10.1 17.1 12.8 14.9 16.5 12.0 13.6 13.6 10.1 10.1 10.1 10.1 10.2 18.9 12.2 18.9 12.5 14.8 17.6 10.7 10.2	∞	Dornogovi	20.2	28.7	25.3	20.7	11.0	8.5	15.2	10.7	9.7	11.1	14.3
Dundgovit 11.1 7.1 12.8 16.9 12.2 8.9 13.6 4.0 16.7 Zavkhan 19.2 19.7 16.9 22.2 28.0 23.2 14.8 17.6 10.5 10.5 Orkhon 21.2 16.8 13.1 16.4 16.5 14.2 14.0 14.4 17.6 10.5 Oukhon 21.2 16.8 13.1 16.4 16.5 14.0 14.0 14.4 13.3 11.4 10.6 11.6 11.6 11.6 11.6 11.4 11.6 11.4 11.6 11.4 11.6 11.6 11.4 11.6 11.6 11.6 11.6 11.6 11.6 11.4 <td< th=""><th>6</th><th></th><th>15.4</th><th>18.2</th><th>17.5</th><th>15.6</th><th>14.9</th><th>16.5</th><th>12.0</th><th>13.5</th><th>8.6</th><th>10.1</th><th>13.3</th></td<>	6		15.4	18.2	17.5	15.6	14.9	16.5	12.0	13.5	8.6	10.1	13.3
Zavkhan 19.2 16.9 16.9 22.2 28.0 23.2 12.5 14.8 17.6 10.5 10.5 Orkhon 21.2 16.8 13.1 16.4 16.5 14.0 14.0 14.4 13.3 11.4 10.8 Uwurkhangai 22.9 21.4 17.2 19.4 15.7 19.4 16.9 12.0 11.6 10.8 11.4 11.8 11.4 11.8 11.4 11.8 11.4 11.8 11.8 11.4 11.8 11.4 11.8 11.4 11.8 11.4 11.8 11.4 11.8 11.4 11.8 11.4 11.8 11.4 11.8 11.4 11.8 11.4 11.4 11.8 11.4	10		11.1	7.1	12.8	13.8	16.9	12.2	8.9	13.6	4.0	16.7	0.6
Orkhon 21.2 16.8 13.1 16.4 16.5 14.2 14.0 14.4 13.3 11.4 Uvurkhangai 22.9 21.4 17.2 19.4 21.7 19.6 12.9 12.6 11.6	7		19.2	19.7	16.9	22.2	28.0	23.2	12.5	14.8	17.6	10.5	16.5
Uvunkhangai 22.9 21.4 17.2 19.4 21.7 19.6 12.9 12.6 11.6 10.8 10.8 10.8 12.9 16.0 16.0 16.5 19.4 13.1 14.6 16.1 18.6 17.1 13.4 14.1 14.3 14.1 14.3 14.1 14.3 14.1 14.3 14.2 14.3 14.2	12		21.2	16.8	13.1	16.4	16.5	14.2	14.0	14.4	13.3	11.4	8.9
Ummugovit 12.0 16.0 15.5 19.4 13.1 14.6 16.1 18.6 17.1 13.4 14.4 14.3 14.4 14.3 14.4	13		22.9	21.4	17.2	19.4	21.7	19.6	12.9	12.6	11.6	10.8	1.1
Sukhbaatar 13.6 18.1 20.0 12.0 16.8 13.5 10.6 13.4 16.4 13.4 16.4 13.4 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16.4 17.1 17.1 16.2 17.1 16.4 16.4 16.4 17.1 17.1 16.5 14.1 16.9 16.4 16.7 16.9 16.4 16.7 16.9 16.1 16.1 16.1 16.2 16.1 16.2	4		12.0	16.0	15.5	19.4	13.1	14.6	16.1	18.6	17.1	13.4	14.5
Selenge 11.8 8.1 11.3 9.4 8.6 9.8 7.2 9.3 8.1 7.1 Tuv 10.4 14.0 18.1 17.2 21.5 14.1 16.0 9.7 18.6 21.1 21.1 Uvs 24.2 17.5 18.3 25.9 18.2 17.9 16.4 15.9 14.9 14.1 14.1 Khovd 13.3 17.3 18.5 18.6 18.6 16.8 16.7 16.7 16.7 16.8 16.7 16.8 16.7 16.8 16.4 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9	15		13.6	18.1	20.0	12.0	16.8	13.5	10.6	13.4	16.4	13.4	11.7
Tuv 10.4 14.0 18.1 17.2 21.5 14.1 16.0 9.7 18.6 21.1 Uvs 24.2 17.5 18.3 25.9 18.2 17.9 16.4 15.9 14.9 14.1 Khovd 13.3 17.3 18.2 22.5 18.6 16.8 16.7 16.5 19.3 14.1 16.2 14.1 16.7 16.8 14.1 16.8 16.8 17.2 12.6 17.1 17.3 18.1 16.8 8.5 16.8 17.4 17.4 17.4 17.8 16.8 8.5 18.8 17.4 17.4 14.4 14.3 14.4 14.3 14.4 14.3 14.4 14.3 14.4 14.5 14.6 17.6 17.6 17.6 17.6 17.6 17.6 17.4 14.3 14.7 14.5 14.6 14.6 14.4 14.5 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14.6 14.6	16		11.8	8.1	11.3	9.4	8.6	9.8	7.2	9.3	8.1	7.1	7.0
Uvs 24.2 17.5 18.3 25.9 18.2 17.9 16.4 16.9 14.9 14.1 14.1 Khovd 13.3 17.3 18.2 22.5 18.6 16.8 16.7 16.7 16.5 19.3 16.2 16.8 16.8 16.8 16.8 17.1 17.2 19.3 17.1 16.8 16.8 17.1 17.2 12.7 12.6 12.3 16.8 12.8 8.5 8.5 8.5 9.5	17		10.4	14.0	18.1	17.2	21.5	14.1	16.0	9.7	18.6	21.1	9.2
Khovd 13.3 17.3 18.2 22.5 18.6 16.8 16.7 15.5 19.3 15.2 15.2 Khuvsgul 20.9 17.6 18.5 18.6 17.2 19.3 17.1 17.3 18.1 16.8 16.8 Province average 18.7 19.2 17.4 17.5 12.7 12.6 12.8 8.5 8.5 Ulaanbaatar 14.1 16.2 16.8 15.4 13.2 14.4 14.3 14.7 15.6 13.2 National average 16.4 16.9 16.9 16.9 16.9 16.4 14.4 14.5 14.6 14.6 14.9 14.6 14.6 14.6 14.6 14.6 14.9 14.6 <td< th=""><th>18</th><th></th><th>24.2</th><th>17.5</th><th>18.3</th><th>25.9</th><th>18.2</th><th>17.9</th><th>16.4</th><th>15.9</th><th>14.9</th><th>14.1</th><th>15.6</th></td<>	18		24.2	17.5	18.3	25.9	18.2	17.9	16.4	15.9	14.9	14.1	15.6
Khuvsgul 20.9 17.6 18.5 18.6 17.2 19.3 17.1 17.3 18.9 17.2 18.9 17.1 17.2 12.6 12.3 15.8 12.8 12.8 12.8 8.5 8.5 Province average 18.2 18.3 17.4 18.2 17.4 14.4 14.3 14.3 13.4 12.6 13.2 Ulaanbaatar 14.1 16.2 16.8 16.9 </th <th>19</th> <th></th> <th>13.3</th> <th>17.3</th> <th>18.2</th> <th>22.5</th> <th>18.6</th> <th>16.8</th> <th>16.7</th> <th>15.5</th> <th>19.3</th> <th>15.2</th> <th>15.7</th>	19		13.3	17.3	18.2	22.5	18.6	16.8	16.7	15.5	19.3	15.2	15.7
Khentii 13.7 19.2 17.1 17.2 12.7 12.6 12.3 15.8 12.8 8.5 Province average 18.2 18.3 17.4 16.4 14.4 14.3 14.3 13.4 12.6 13.2 Ulaanbaatar 14.1 16.2 16.8 16.9 16.9 16.9 16.4 14.4 14.5 14.7 14.6 13.2 National average 16.4 17.4 16.9 <	20		20.9	17.6	18.5	18.6	17.2	19.3	17.1	17.3	18.1	16.8	12.9
Province average 18.2 18.3 17.4 15.4 15.4 14.4 14.4 14.3 14.3 13.4 12.6 13.2 Ulaanbaatar 14.1 16.2 16.8 16.9 16.9 16.9 16.4 14.4 14.4 14.5 14.6 14.6 12.9 12.9	21		13.7	19.2	17.1	17.2	12.7	12.6	12.3	15.8	12.8	8.5	11.0
Ulaanbaatar 14.1 16.2 16.8 15.4 13.2 14.4 14.3 14.7 15.6 13.2 National average 16.4 17.4 16.9 16.9 15.4 14.9 14.4 14.5 14.6 12.9	22		18.2	18.3	17.0	18.2	17.4	15.4	14.4	14.3	13.4	12.6	11.9
National average 16.4 17.4 16.9 16.9 15.4 14.9 14.4 14.5 14.6 12.9	23	_	14.1	16.2	16.8	15.4	13.2	14.4	14.3	14.7	15.6	13.2	12.9
	24		16.4	17.4	16.9	16.9	15.4	14.9	14.4	14.5	14.6	12.9	12.4

UNDER FIVE MORTALITY RATE, /PER 1 000 LIVE BIRTHS/

읟	Province/city	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
-	Arkhangai	20.1	31.7	28.8	31.3	20.9	23.7	22.7	18.3	18.0	27.6	20.5
7	Bayan-Ulgii	26.1	23.8	36.9	33.1	29.1	27.9	23.9	26.5	31.4	32.1	17.9
က	Bayankhongor	23.8	28.9	26.7	32.9	25.6	17.9	20.7	19.7	18.3	30.0	18.0
4	Bulgan	28.1	13.7	21.5	24.5	13.5	19.8	20.5	23.8	19.2	16.1	13.2
2	Govi-Altai	36.2	33.1	35.5	26.9	25.9	22.6	30.3	26.9	15.5	20.4	19.7
9	Govisumber	17.5	32.9	27.8	5.3	8.5	11.3	14.6	6.1	15.7	20.0	14.4
7	Darkhan-Uul	10.7	14.3	11.9	11.7	12.8	11.0	10.7	8.4	12.1	15.3	12.8
∞	Dornogovi	25.6	33.8	24.0	28.5	19.2	18.4	21.9	19.5	12.3	16.7	13.6
ဝ	Dornod	26.9	22.3	20.2	23.8	25.5	16.6	19.2	13.1	10.2	15.4	18.1
10	Dundgovi	15.6	16.2	22.9	30.0	15.7	12.2	14.6	20.0	10.0	21.0	15.9
7	Zavkhan	23.9	25.5	24.5	32.7	26.1	28.2	21.2	26.6	28.2	19.0	17.3
12	Orkhon	17.7	18.3	16.8	18.2	15.9	16.6	13.4	16.2	15.2	14.5	5.4
5	Uvurkhangai	31.3	35.1	25.8	33.1	33.1	27.0	19.4	16.0	18.9	28.4	20.2
4	Umnugovi	27.4	28.8	23.4	26.3	22.9	23.1	19.4	26.4	19.9	24.1	20.0
15	Sukhbaatar	27.3	26.0	22.7	25.9	24.7	26.2	21.2	24.8	22.9	27.7	20.4
16	Selenge	14.5	12.9	16.3	13.1	9.7	10.3	11.4	8.9	11.8	19.1	15.1
17	Тиv	7.8	9.8	20.4	30.2	32.5	29.3	14.5	17.2	17.3	30.4	17.5
18	Uvs	40.1	26.5	36.5	43.2	27.5	19.6	20.0	23.0	23.4	27.0	22.1
19	Khovd	23.3	21.0	25.1	29.9	22.6	22.5	17.7	24.1	23.3	23.4	22.2
20	Khuvsgul	33.9	31.8	33.9	37.9	32.8	29.1	28.8	19.3	27.5	32.4	26.3
21	Khentii	20.7	37.4	31.7	28.1	27.4	23.4	23.5	18.3	18.4	23.2	24.9
22	Province average	24.6	25.3	25.7	28.0	23.5	21.3	19.7	19.0	19.2	23.7	18.1
23	Ulaanbaatar	18.8	20.8	21.0	20.6	16.2	16.0	16.3	17.8	17.3	18.2	15.4
24	National average	22.1	23.4	23.6	24.6	20.0	18.7	18.0	18.4	18.3	20.8	16.7

COMMUNICABLE DISEASE, / PER 10 000 POPULATION/

읟	Province/city	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
_	Arkhangai	104.8	89.0	61.0	68.1	127.4	89.7	82.0	62.6	64.1	159.7	53.3
2	Bayan-Ulgii	48.0	112.5	86.1	72.1	53.0	33.4	45.5	40.7	65.5	61.8	33.1
က	Bayankhongor	183.2	207.0	266.4	339.6	272.0	161.0	126.4	142.5	183.1	268.8	134.3
4	Bulgan	149.9	226.6	191.0	135.2	207.4	161.6	6.06	73.4	68.5	125.5	80.0
5	Govi-Altai	159.8	174.8	72.3	161.4	125.0	80.8	49.2	88.1	75.8	171.7	140.0
9	Govisumber	244.4	225.0	113.9	206.2	213.4	140.6	137.2	106.1	74.5	176.7	141.6
7	Darkhan-Uul	199.6	206.7	176.8	144.8	153.9	114.1	96.2	101.0	77.3	313.8	93.0
∞	Dornogovi	271.5	205.0	190.7	238.6	209.3	166.9	172.5	134.6	139.8	266.9	105.3
_ ნ	Dornod	226.4	298.1	281.4	257.9	332.8	315.8	421.7	334.5	337.8	337.1	381.2
10	Dundgovi	103.9	54.2	44.4	75.8	171.3	116.0	80.7	91.0	125.3	144.7	110.5
7	11 Zavkhan	92.0	96.4	81.3	6.96	143.1	108.0	107.9	2.99	75.2	112.8	65.4
12	Orkhon	171.2	174.7	148.4	132.4	147.9	107.2	74.0	68.5	104.2	138.6	8.99
13	Uvurkhangai	224.2	178.1	140.1	103.0	128.7	94.6	105.5	57.7	81.2	196.0	99.2
4	14 Umnugovi	184.8	119.4	64.5	9.09	166.7	84.3	91.8	82.7	155.9	158.6	115.8
15	Sukhbaatar	101.9	237.0	164.5	145.1	155.8	146.9	182.2	102.4	142.5	218.3	216.1
16	Selenge	138.7	127.8	123.2	2.66	115.2	92.9	83.7	81.7	84.9	174.0	72.9
17	17 Tuv	77.4	98.4	53.6	70.7	116.6	100.9	81.0	57.0	136.6	133.5	88.9
18	18 Uvs	91.0	113.2	107.9	108.8	167.3	86.9	63.7	64.8	109.8	88.3	88.0
19	Khovd	45.9	124.6	88.0	72.4	114.0	175.2	93.3	71.8	102.7	146.0	61.8
20	Khuvsgul	124.6	229.2	220.5	192.1	150.3	115.4	144.9	120.1	151.2	172.8	119.5
21	Khentii	307.7	200.7	134.8	169.5	193.8	148.3	132.1	98.8	142.0	157.4	95.0
22	Province average	147.3	164.0	137.3	136.9	158.3	121.7	114.3	95.4	118.7	177.5	106.8
23	23 Ulaanbaatar	228.1	228.1	205.5	216.1	179.7	204.2	158.0	136.0	295.9	287.7	190.2
24	24 National average	178.7	239.6	164.8	169.4	168.0	159.5	132.7	114.4	200.5	227.8	144.9

HEALTH CARE WORKERS, /PER 10 000 POPULATION /

일	Province/city	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<u>_</u>	Arkhangai	107.4	111.7	114.0	121.6	135.1	134.8	137.3	134.3	135.6	134.7	129.9
7	Bayan-Ulgii	102.8	98.0	99.2	103.3	118.4	118.4	124.1	123.9	122.1	121.5	125.1
က	Bayankhongor	120.4	122.8	120.9	120.5	140.9	146.2	151.9	146.5	139.8	138.2	135.7
4	Bulgan	129.0	129.1	126.7	123.9	145.6	147.4	141.4	138.1	127.5	126.8	125.3
Ŋ	Govi-Altai	148.3	162.7	167.6	174.5	194.5	196.1	203.5	195.9	190.5	195.9	192.8
9	Govisumber	154.8	167.6	168.1	167.0	172.9	169.7	175.2	168.5	160.2	148.3	152.6
7	Darkhan-Uul	128.0	131.1	129.9	126.3	128.0	133.2	131.5	131.8	136.7	138.6	137.8
∞	Dornogovi	139.8	147.1	141.9	145.3	145.8	152.3	157.0	149.9	150.6	158.2	165.4
ത	Dornod	118.2	124.1	129.6	128.8	136.8	142.3	142.4	139.6	136.3	132.7	131.0
10	Dundgovi	121.3	129.9	139.1	140.2	165.6	182.8	185.3	169.9	157.9	156.7	154.3
7	Zavkhan	127.7	131.6	136.0	138.9	169.0	176.3	182.8	177.4	168.1	158.3	155.7
12	Orkhon	114.9	130.2	121.6	138.0	126.2	134.1	137.5	135.3	133.0	150.3	148.7
<u>5</u>	Uvurkhangai	98.0	98.2	101.5	104.1	121.9	123.3	126.4	125.0	123.6	123.6	125.4
4	Umnugovi	112.1	123.3	124.5	125.4	106.2	108.7	110.2	118.7	128.1	132.0	126.5
72	Sukhbaatar	124.6	128.7	136.3	138.8	148.8	150.0	151.2	136.7	136.2	133.6	128.9
16	Selenge	108.7	109.1	108.6	107.7	110.2	107.5	116.7	112.6	112.6	116.9	121.8
17	Tuv	110.9	120.5	120.0	118.6	132.5	135.4	141.6	145.3	135.2	139.5	143.4
18	Uvs	118.2	118.7	121.8	124.6	134.3	138.4	146.0	148.5	146.4	141.2	133.8
19	Khovd	101.7	107.4	109.4	113.3	130.0	135.9	136.4	134.9	134.1	138.8	141.5
20	Khuvsgul	98.6	110.8	110.9	111.9	120.8	125.8	125.3	122.6	119.7	117.0	115.7
21	Khentii	137.8	138.0	135.2	134.9	146.2	147.1	147.5	146.2	140.6	139.2	135.7
22	Province average	116.4	121.2	122.1	124.4	134.7	138.1	141.1	138.7	136.2	137.2	136.6
23	Ulaanbaatar	167.3	175.6	173.5	171.2	163.1	172.0	172.2	174.9	181.2	178.0	195.3
24	National average	136.1	142.7	142.8	143.6	147.6	153.6	155.5	155.4	156.7	156.0	163.1

PHYSICIANS, /PER 10 000 POPULATION/

읟	Province/city	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
~	Arkhangai	14.7	15.8	13.5	14.8	16.9	17.3	17.7	17.9	18.0	19.9	18.3
7	Bayan-Ulgii	15.0	14.0	13.0	14.2	16.4	16.2	16.3	16.6	17.0	18.6	20.2
က	Bayankhongor	13.5	14.5	12.2	13.0	16.4	17.3	18.7	20.4	19.0	20.6	21.7
4	Bulgan	17.8	18.0	15.2	14.6	18.7	19.9	18.5	18.4	18.4	19.9	19.8
2	Govi-Altai	17.9	18.8	19.3	21.1	25.9	27.9	29.3	29.3	30.5	31.4	32.8
9	Govisumber	31.9	33.8	31.3	28.8	33.1	34.1	38.5	37.6	34.4	31.1	33.2
7	Darkhan-Uul	24.7	27.0	25.9	25.4	25.3	25.6	25.4	25.3	26.2	28.0	27.2
∞	Dornogovi	28.4	33.7	30.8	31.2	30.1	30.1	33.1	31.0	32.5	33.9	32.9
6	Dornod	18.0	18.2	18.7	18.2	19.7	22.5	24.1	23.2	22.3	22.6	23.3
10	Dundgovi	17.9	19.2	19.0	18.7	22.0	26.2	28.2	27.2	27.7	28.7	30.7
7	Zavkhan	14.3	15.7	14.8	15.4	19.8	22.2	23.2	22.8	23.1	25.9	25.3
12	Orkhon	28.8	31.1	27.1	29.1	27.6	27.9	28.7	27.5	27.4	32.1	31.9
13	Uvurkhangai	16.6	16.0	14.8	15.0	17.8	19.1	20.9	20.3	22.0	22.6	22.5
4	Umnugovi	20.3	23.0	21.8	23.3	19.0	21.0	22.2	25.1	28.0	29.1	29.2
15	Sukhbaatar	20.0	20.0	18.4	19.3	21.7	22.0	22.9	21.9	24.0	25.6	25.2
16	Selenge	19.0	18.5	16.1	15.3	16.8	15.8	17.6	18.1	19.7	22.0	22.8
17	Tuv	14.9	16.0	14.9	15.4	18.0	18.4	20.8	20.9	20.9	21.9	23.3
48	Uvs	17.1	17.2	14.6	15.5	16.4	18.5	18.7	19.1	21.6	21.0	20.6
19	Khovd	14.1	14.0	13.9	16.7	19.3	21.7	21.2	22.2	23.5	24.8	26.8
20	Khuvsgul	13.9	14.1	12.9	14.1	14.9	17.0	17.3	17.7	18.2	18.6	19.0
21	Khentii	20.6	21.1	20.5	19.7	21.8	22.7	22.7	21.8	21.6	22.6	24.1
22	Province average	18.1	18.8	17.4	18.0	20.0	21.1	22.0	22.0	22.6	24.0	24.4
23	Ulaanbaatar	44.4	43.4	39.6	40.3	38.8	41.1	40.9	42.4	42.3	42.2	46.0
24	National average	28.3	28.5	26.4	27.2	28.5	30.3	30.7	31.4	31.6	32.4	34.1

NURSES, / PER 10 000 POPULATION /

일	Province/city	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
~	Arkhangai	25.5	27.1	28.0	27.8	30.1	30.9	30.6	30.2	29.5	29.8	29.0
7	Bayan-Ulgii	22.6	22.9	24.3	24.9	27.5	27.3	27.5	30.2	30.4	30.7	31.5
က	Bayankhongor	27.6	29.3	28.8	29.1	33.1	35.3	36.2	36.8	35.0	34.6	34.0
4	Bulgan	29.5	30.3	30.1	29.7	36.4	36.4	35.4	35.8	32.9	32.2	31.5
2	Govi-Altai	34.6	36.8	37.4	38.2	42.5	42.9	44.5	44.3	43.6	44.9	44.5
9	Govisumber	38.6	45.6	40.5	37.8	39.0	41.2	38.5	42.1	37.4	37.1	39.0
7	Darkhan-Uul	39.5	37.2	36.7	35.6	35.3	36.6	37.9	37.5	39.7	36.6	35.6
∞	Dornogovi	30.1	31.2	30.1	31.1	30.1	29.3	31.7	31.3	32.2	34.3	37.7
6	Dornod	30.5	30.9	30.8	31.4	34.5	34.3	36.3	36.5	35.6	35.6	35.2
10	Dundgovi	29.4	29.3	30.7	32.0	36.1	38.1	39.7	37.0	35.6	34.1	32.4
7	Zavkhan	26.3	28.3	31.0	28.9	34.6	37.6	39.5	38.7	39.2	39.9	38.1
12	Orkhon	37.0	37.9	38.9	38.1	34.5	35.5	35.2	36.2	36.3	41.3	41.3
13	Uvurkhangai	22.7	23.3	23.7	24.5	28.1	28.7	28.7	29.1	28.7	29.1	28.6
4	Umnugovi	26.2	28.3	25.8	24.1	22.1	24.4	23.1	26.8	27.9	29.0	27.1
15	Sukhbaatar	27.8	27.4	30.4	29.1	30.4	31.8	32.5	36.7	36.6	36.0	35.4
16	Selenge	27.0	26.0	27.3	26.0	26.6	25.9	29.3	26.9	27.5	27.7	30.6
17	Tuv	26.0	27.1	26.8	25.8	28.4	29.3	29.9	33.5	31.1	32.4	31.5
18	Uvs	29.2	32.2	30.5	31.2	33.0	31.5	36.3	36.2	34.4	34.6	31.6
19	Khovd	26.7	28.6	28.4	28.1	30.3	29.8	29.7	34.4	33.5	33.7	34.6
20	Khuvsgul	25.8	26.2	26.1	26.8	26.4	28.3	28.3	28.5	28.6	27.9	28.2
21	Khentii	29.9	30.5	31.0	30.8	34.0	34.9	35.0	34.0	33.7	32.4	31.0
22	Province average	28.4	29.2	29.5	29.4	31.2	32.0	32.8	33.5	33.1	33.4	33.1
23	Ulaanbaatar	39.0	40.1	38.8	38.2	36.9	38.4	37.6	40.9	42.8	41.6	45.1
24	National average	32.4	33.5	33.3	33.0	33.8	34.9	35.0	36.9	37.5	37.2	38.5

NUMBER OF HOSPITAL BEDS, /PER 10 000 POPULATION/

읟	Province/city	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
~	Arkhangai	64.1	61.9	62.1	2.09	79.2	80.1	9.99	57.2	55.2	9.99	55.0
7	Bayan-Ulgii	59.2	55.5	58.7	8.09	6.07	82.1	74.8	70.5	68.9	72.7	77.1
က	Bayankhongor	63.1	6.09	58.5	58.5	65.3	64.6	66.5	57.8	57.1	62.2	63.4
4	Bulgan	2.09	57.1	0.09	59.2	72.3	71.8	73.0	57.7	55.1	62.3	60.4
2	Govi-Altai	7.97	77.3	77.2	73.9	85.6	84.4	84.1	68.1	66.4	8.77	78.7
9	Govisumber	93.4	8.96	81.0	78.3	77.3	74.6	85.9	55.7	64.5	9.07	72.2
7	Darkhan-Uul	57.3	58.6	56.9	57.4	57.8	58.7	57.8	0.99	67.1	73.2	73.6
∞	Dornogovi	66.7	64.3	61.6	62.1	61.5	60.2	59.1	62.8	62.6	66.5	68.8
6	Dornod	65.3	64.9	65.2	65.2	70.1	69.3	7.07	58.3	56.4	8.69	6.69
10	Dundgovi	71.1	72.2	62.1	63.4	78.0	78.9	79.3	55.6	51.1	67.5	65.5
Ξ	Zavkhan	88.2	84.0	9.99	68.9	9.96	93.4	104.3	66.4	71.2	81.7	82.1
12	Orkhon	47.4	53.7	6.03	6.03	51.4	55.2	58.3	62.7	61.4	64.2	63.4
<u>5</u>	Uvurkhangai	57.0	54.3	54.4	1.45	62.3	61.9	62.9	63.7	2.09	63.5	72.7
4	Umnugovi	63.6	63.0	55.9	56.0	46.6	45.2	43.9	69.1	73.5	71.4	102.5
15	Sukhbaatar	61.3	58.5	57.7	9'.29	61.4	2.09	60.3	0.99	62.7	61.4	66.7
16	Selenge	71.5	62.2	63.0	61.5	63.3	65.2	60.4	59.3	58.4	66.2	65.7
17	Tuv	57.2	56.4	48.3	47.3	49.6	49.2	49.1	59.2	57.7	57.4	53.8
18	Uvs	9'.29	67.8	60.3	6.09	65.4	65.1	66.4	68.8	0.69	70.5	67.2
19	Khovd	62.7	64.3	63.1	65.8	71.4	74.7	73.6	70.5	9'.29	67.4	8.99
20	Khuvsgul	59.1	59.4	48.9	49.7	54.4	52.9	56.7	54.8	60.2	61.2	59.7
21	Khentii	64.2	61.9	6.09	9.09	65.6	64.8	64.3	58.4	60.2	67.5	63.0
22	Province average	63.8	62.5	59.1	59.2	65.3	62.9	65.5	62.4	62.1	9.99	68.1
23	Ulaanbaatar	78.6	76.4	74.8	72.3	71.5	72.6	72.0	9'.22	83.2	83.4	88.1
24	National average	69.5	68.0	65.4	64.6	68.1	0.69	68.5	69.4	71.8	74.3	77.1

INPATIENTS, /PER 10 000 POPULATION /

읟	Province/city	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
_	Arkhangai	2487.8	2498.4	2428.0	2525.3	2585.3	2524.5	2410.6	2319.9	2052.7	2255.0	2128.3
7	Bayan-Ulgii	2300.3	2301.9	2256.9	2327.6	2665.0	2679.5	2775.1	2831.9	2793.4	2916.3	2724.3
က	Bayankhongor	2472.5	2334.2	2216.6	2272.8	2625.9	2518.9	2513.0	2481.0	2280.9	2442.3	2308.3
4	Bulgan	2067.8	2097.6	2118.8	2048.1	2380.9	2420.3	2316.5	2075.7	1931.3	2039.9	1919.0
2	Govi-Altai	2456.2	2507.9	2291.1	2334.4	2767.8	2682.1	2713.1	2669.5	2562.2	2586.3	2517.4
9	Govisumber	3143.2	3263.1	3251.1	3434.7	3336.8	3213.7	3050.6	3399.9	2804.2	3003.5	2826.4
7	Darkhan-Uul	2085.5	2284.0	2336.6	2525.1	2409.5	2401.9	2465.0	2891.5	2818.1	3010.9	2976.8
_∞	Dornogovi	2379.0	2381.6	2236.8	2345.6	2279.4	2184.2	2074.1	2220.0	2103.9	2415.8	2381.9
တ	Dornod	2096.2	2290.3	2293.1	2214.0	2489.7	2473.0	2400.5	2327.0	2238.1	2528.0	2416.5
10	Dundgovi	2121.0	2260.9	2232.6	2269.5	2634.5	2879.8	2736.1	2662.7	2271.0	2548.0	2403.5
7	Zavkhan	2206.9	2244.9	2296.9	2337.4	2771.3	2767.2	2668.9	2485.0	2339.3	2457.3	2279.4
12	Orkhon	1731.7	1980.6	1935.7	2030.5	1956.4	2072.7	2070.8	2124.9	2073.9	2197.5	2248.2
13	Uvurkhangai	1920.5	1813.6	1842.1	1961.9	2073.4	2183.7	2162.0	2206.7	2076.2	2241.1	2111.6
4	Umnugovi	2177.7	2285.4	2143.6	1941.7	1593.1	1615.4	1620.7	1877.3	2008.9	2174.1	2105.9
15	Sukhbaatar	2232.6	2336.0	2354.7	2314.9	2444.3	2354.0	2306.2	2342.6	2167.6	2242.6	2168.3
16	Selenge	2288.3	2141.7	2126.6	2222.8	2222.2	2182.7	1959.7	2029.8	1935.6	2196.7	2105.7
17	Tuv	1754.9	1866.8	1789.7	1760.5	1823.6	1789.4	1746.8	1812.8	1615.5	1826.9	1663.9
18	Uvs	2284.0	2576.9	2384.6	2467.4	2724.0	2617.2	2654.7	2663.9	2401.1	2592.1	2635.7
19	Khovd	2269.7	2458.7	2530.4	2523.6	2714.6	2765.2	2921.4	2958.2	2773.8	2758.1	2647.7
20	Khuvsgul	2117.0	2176.7	2163.0	2159.8	2272.3	2285.8	2246.6	2200.2	2149.3	2280.2	2139.7
21	Khentii	2486.4	2382.9	2279.9	2304.1	2475.4	2475.8	2341.2	2376.5	2147.9	2297.8	2085.4
22	Province average	2191.5	2251.8	2210.2	2251.4	2380.5	2375.7	2339.6	2378.2	2242.0	2406.7	2302.3
23	Ulaanbaatar	2707.3	2628.0	2672.5	2769.4	2625.2	2712.8	2750.2	2872.1	3012.2	3151.6	3307.7
24	National average	2391.9	2400.6	2396.5	2464.0	2491.6	2530.4	2530.1	2606.1	2593.1	2748.8	2756.4

OUTPATIENT MORBIDITY, / PER 10 000 POPULATION /

1 Avehangal 5066.3 5674.6 6619.1 6460.4 7760.0 7766.6 6712.2 7996.4 7977.1 9200.9 70178.0 2 Bayan-Ugiji 3560.3 3465.3 3457.3 3492.6 4469.4 4441.3 4590.0 5165.5 471.8 457.3 500.8 4 Bayan-Ugiji 5860.3 4822.6 7379.4 400.9 9872.4 4441.3 4690.0 5165.5 471.8 457.3 500.8 4 Bayan-Ugiji 5608.3 4822.2 4822.4 4641.7 7720.9 6969.1 6969.2 774.6 774.6 774.6 7760.9 6969.3 774.2 774.6 774.6 7760.9 6969.3 774.2 774.6	읟	Province/city	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Beyan-Ulgili 5660.3 3455.3 3493.6 4493.4 4594.0 5155.5 4711.8 4571.3 4594.0 4575.5 4711.8 4571.3 4592.0 4592.0 4592.0 4592.0 4571.3 4572.3 4572.3 4500.0 9872.4 4966.2 5688.1 7700.0 9649.5 7778.0 9789.2 9	~	Arkhangai	6.9905	5624.6	6619.1	6460.4	7500.0	9.9922	6722.2	7996.4	1.7767	9203.9	10178.0
Bayanklongord 6642 6 6226 6 7779 4 8010.3 8672 4 6642 9 6888 1 7309 B 9644 5 7898 0 Bulgan 6505 3 4822 3 4403 3 4282 2 4418 B 4665 2 5888 1 7309 B 8042 1 8798 2 8798 2 898 3 7309 B 8042 3 4603 3 4822 3 4403 3 4282 2 4403 3 4282 2 4408 3 6896 3 666 5 666 5 666 5 679 3 6896 3 666 5 679 3 669 5 679 3 679 3 666 5 679 3 679 3 679 3 679 3 679 3 679 3 679 3 679 3 679 3 679 3 679 3 689 3 779 3 770 3 <th>7</th> <th>Bayan-Ulgii</th> <th>3560.3</th> <th>3455.3</th> <th>3513.3</th> <th>3493.6</th> <th>4459.4</th> <th>4541.3</th> <th>4594.0</th> <th>5155.5</th> <th>4711.8</th> <th>4573.3</th> <th>5408.8</th>	7	Bayan-Ulgii	3560.3	3455.3	3513.3	3493.6	4459.4	4541.3	4594.0	5155.5	4711.8	4573.3	5408.8
Bulganh 6069.3 4822.3 4403.3 4282.2 418.8 4966.2 5888.1 7309.8 8042.1 8947.2 891.8 4966.2 5848.5 844.1 5830.6 6967.4 7480.1 7282.7 6865.1 650.2 5646.5 6841.5 681.3 789.2 690.4 7480.1 7282.4 902.3 681.3 789.2 737.7 777.8 778.7 686.3 687.8 789.2 733.7 777.8 778.7 686.3 687.8 783.4 789.6 789.2 783.7 777.8 778.7 789.6 789.2 789.3 789.8 789.8 789.3 789.8	က	Bayankhongor	5047.8	6250.6	7379.4	8010.9	9872.4	8642.9	9389.0	9639.1	9644.5	9799.2	10745.8
Conv-Arlali 5846 6 6841.1 5890 6 6867.4 7480.1 722.7 6865.1 6859.9 6846.5 6841.7 6890.6 674.3 6592.9 5846.5 6819.7 6819.7 6890.9 6893.4 6815.0 6819.7 6819.7 6890.2 7787.0 6868.3 7598.5 6819.7 7890.2 7787.0 6868.3 7598.5 6819.3 7898.5 8834.3 7898.5 8834.3 7898.5 8834.3 7898.5 8834.3 7898.5 8834.3 7898.5 8834.3 7898.5 8834.3 7897.6 8858.3 7898.5 8834.3 7898.5 7898	4	Bulgan	5059.3	4822.3	4403.3	4282.2	4318.8	4965.2	5888.1	7309.8	8042.1	8347.8	10707.1
Covincimper 7369.5 9755.5 9228.1 1208.5 1222.4 9023.3 6936.6 6743.4 6415.0 6337.6 8334.3 Darkhan-Uul 6660.3 6877.8 7387.0 7736.7 7746.7 7746.7 7787.0 8686.3 7898.5 8334.3 Darkhan-Uul 6650.3 6877.8 7387.0 6737.0 7736.1 7796.7 7821.0 7897.0 8334.3 Darrodowi 5290.8 6179.4 7281.0 6750.0 7306.1 7766.5 7430.7 7796.7 7499.5 7499	2	Govi-Altai	5846.6	5841.1	5930.6	6967.4	7480.1	7262.7	6865.1	6592.9	5646.5	6819.7	7442.8
Darkstran-Uul G660.3 G887.8 7899.2 7377.7 7178.6 7246.7 7787.0 8668.3 7899.5 8334.3 7899.5 7334.9 7787.0 7787.0 7787.0 7789.5 7789.7 7789.7 7789.7 7789.5 7789.7	9	Govisumber	7369.5	8755.5	9228.1	13085.5	12232.4	9023.3	6396.6	6743.4	6415.0	6337.6	6338.3
Dornogovin 4999.1 5311.6 5534.0 6783.0 6131.2 6239.6 6734.9 7730.1 7705.5 7821.0 9302.9 7419.5 Dornodovind 5260.8 6179.4 7281.9 6753.0 7306.1 7676.5 7430.7 6779.5 8009.9 7419.5 Dundgovin 3605.0 3883.1 3666.6 3991.7 5200.0 5397.4 604.6 664.3 5629.1 6393.2 6383.1 7419.5 7419.5 7419.5 7419.5 7419.5 7419.5 7419.5 7419.5 7419.5 7419.6 7419.5 7419.5 7419.6 7419.5<	7	Darkhan-Uul	6650.3	6877.8	7899.2	7337.7	7178.6	7246.7	7787.0	8668.3	7998.5	8334.3	8945.2
Dornod 5290.8 6179.4 7281.9 675.0 7306.1 7676.5 7430.7 6779.5 8009.9 7419.5 Dundqovi 3605.0 3638.1 3666.6 3991.7 5200.0 5397.4 6974.9 6064.3 5592.2 6353.6 Zavkhan 3499.9 3614.5 3760.7 3877.4 4592.0 6604.6 4686.1 5601.9 5689.1 6656.9 5631.7 Olkhon 4135.7 4524.5 4760.7 4762.5 7051.8 6845.7 7152.3 6686.9 7122.5 6646.7 7152.3 6681.7 7152.9 6646.7 7162.3 6681.7 7152.9 6646.9 7692.7 7143.7 7162.9 6646.9 7692.7 7143.7 7162.3 6646.9 7692.7 7142.9 7692.9 6656.9 7143.7 7692.9 7692.9 7696.9 7696.9 7696.9 7696.9 7696.9 7696.9 7696.9 7696.9 7696.9 7696.9 7696.9 7696.9 7696.9 7696.9	∞	Dornogovi	4999.1	5311.6	5534.0	6078.2	6131.2	6239.6	6374.9	7232.2	7821.0	9302.9	13795.3
Dundgovi 3606.0 3683.1 3666.6 3991.7 520.0 5397.4 6064.5 5691.4 6064.3 5392.2 6353.6 Zavkhran 4199.9 3614.5 3760.7 3877.4 4592.0 6604.6 4686.1 5601.9 5589.1 6545.3 6545.6 Orkhon 4135.7 4524.5 4560.7 4773.7 4358.2 4259.1 4496.2 561.9 5691.3 6565.9 Orkhon 4135.7 4524.5 4560.7 4773.7 4358.2 7551.9 7152.3 6691.5 7123.5 Orkhoadalar 5802.6 6231.1 6245.6 7743.1 7251.9 7162.3 6691.5 7123.5 Selenge 590.4 6233.3 6645.6 7743.1 7251.9 75604.6 7661.6 7743.6 7661.6 7696.7 7753.9 7696.7 7661.6 7661.6 7661.6 7661.6 7753.9 7743.0 7753.9 7743.0 7753.9 7743.0 7753.9 7743.0 7753.9	6	Dornod	5290.8	6179.4	7281.9	6753.0	7306.1	7676.5	7430.7	6779.5	8.6008	7419.5	7837.1
Zavkhan 3499.9 3614.5 3700.7 3877.4 4592.0 6604.6 4686.1 5501.9 5559.1 6558.9 Onkhon 4135.7 4524.5 4560.7 4773.7 4358.2 4259.1 4180.8 4496.2 561.3 6558.9 Ouvirkhangai 5802.6 6231.1 5944.1 6242.5 7143.1 7251.9 4180.8 6845.7 7152.3 6892.1 6691.5 7129.5 Ununugovi 5910.4 6233.3 6845.6 7143.1 7251.9 7152.3 6892.1 7129.5 7129.5 Sukhbaatlar 5910.4 6232.3 6842.6 7143.1 7251.9 7597.4 8094.7 71227.6 71227.6 Selenge 506.6 4786.7 5286.4 4889.7 7104.8 6968.1 7923.9 8298.5 71227.6 Selenge 506.6 4786.7 5386.9 7104.8 6968.1 7923.9 8298.5 7876.5 Uvs 555.6 5621.8 5686.9 7104.	10		3605.0	3638.1	3656.6	3991.7	5200.0	5397.4	5974.4	6064.3	5392.2	6353.6	5926.6
Orkhon 4136.7 4524.5 4560.7 4773.7 4368.2 4269.1 4196.2 5813.7 6556.9 Uvurkhangai 5802.6 6221.1 5944.1 6242.5 7051.8 6845.7 7152.3 6982.1 6691.5 7129.5 Uvurkhangai 5910.4 6233.3 6845.6 8427.2 7143.1 7251.9 7597.4 8094.4 9652.7 7129.5 Sukhbaatar 5910.4 6233.3 6845.6 6286.4 4889.7 7507.6 5501.6 5508.2 7892.4 7892.5 7876.5 </th <th>Ξ</th> <th></th> <th>3499.9</th> <th>3614.5</th> <th>3760.7</th> <th>3877.4</th> <th>4592.0</th> <th>6604.6</th> <th>4686.1</th> <th>5501.9</th> <th>5559.1</th> <th>6545.3</th> <th>8723.5</th>	Ξ		3499.9	3614.5	3760.7	3877.4	4592.0	6604.6	4686.1	5501.9	5559.1	6545.3	8723.5
Uvunrkhangail 5802.6 6231.1 6944.1 6242.5 7051.8 6845.7 7152.3 6982.1 6691.5 7129.5 Ummugovi 5910.4 6233.3 6845.6 8427.2 7143.1 7251.9 7597.4 8094.4 9652.7 11227.6 Sukhbaatar 4396.1 5673.6 4889.7 5307.6 5561.6 5561.6 7682.9 7704.8 7697.9 7832.5 7876.5 7876.9 Selenge 5065.6 4786.7 4168.8 5066.1 5326.1 4962.3 4874.9 4960.3 7832.5 7876.5 7876.5 7704.8 7704.9 7861.9 7704.9 7703.9 7866.9 7706.9 7703.9<	12		4135.7	4524.5	4560.7	4773.7	4358.2	4259.1	4180.8	4496.2	5813.7	6226.9	5959.4
Ummugovi 5910.4 623.3 6845.6 7143.1 7251.9 7597.4 8094.4 9052.7 11227.6 Sukhbaatar 4396.1 5673.7 5234.2 5286.4 4889.7 5307.6 5561.6 5568.2 7832.5 7876.5 Selenge 5065.6 4786.7 4168.8 5065.1 5326.1 4962.3 4874.9 4950.3 7876.5 7876.5 Tuv 3214.5 5504.8 7062.2 5948.7 5985.9 7104.8 6968.1 7923.9 8298.5 9053.2 Tuv 5265.5 5624.8 7062.2 5948.7 6985.9 7104.8 6968.1 7923.9 8298.5 7866.9 7866.9 7823.9 7823.9 7823.9 7836.9 7836.9 7833.6 78	13		5802.6	6231.1	5944.1	6242.5	7051.8	6845.7	7152.3	6982.1	6691.5	7129.5	7804.1
Sukhbaatar 5065.6 4986.1 5806.4 4889.7 5307.6 5561.6 5508.2 783.5 7876.5 Selenge 5065.6 4786.7 4168.8 5065.1 5226.1 4962.3 4874.9 4560.3 7843.7 4661.9 Iuv 5065.6 4786.7 4168.8 5065.9 598.9 7104.8 698.1 7923.9 8298.5 9053.2 Iuv 555.5 5621.4 6059.3 5661.0 6420.5 6578.9 7223.9 6938.8 7439.0 7853.6 Khovd 3999.4 4153.0 3979.4 4235.9 7008.4 6696.0 5966.4 5459.2 5668.8 5911.4 5608.8 5911.4 5648.9 5611.4 5608.8 5911.4 5648.9 5648.9 5648.9 5648.9 6646.0 6199.3 6199.3 6648.9 6199.3 6199.3 6648.9 6199.3 6199.3 6648.9 6199.3 6199.3 6648.9 6649.0 6199.3 6199.3 6648.9 6649.0 <th>4</th> <th></th> <th>5910.4</th> <th>6233.3</th> <th>6845.6</th> <th>8427.2</th> <th>7143.1</th> <th>7251.9</th> <th>7597.4</th> <th>8094.4</th> <th>9652.7</th> <th>11227.6</th> <th>10970.7</th>	4		5910.4	6233.3	6845.6	8427.2	7143.1	7251.9	7597.4	8094.4	9652.7	11227.6	10970.7
Selenge 5065.6 4786.7 4168.8 5065.1 5326.1 4962.3 4874.9 4950.3 4543.7 4661.9 Tuv 3214.5 5504.8 7062.2 5948.7 5985.9 7104.8 6968.1 7923.9 8298.5 9053.2 Uvs 5555.5 5621.4 6059.3 5661.0 6420.5 6578.9 7223.3 6938.8 7439.0 7853.6 Khovd 3999.4 4153.0 3979.4 4235.9 7008.4 6696.0 5966.4 5459.2 5566.8 5913.1 Khovd 5092.0 5159.2 5224.1 5202.8 4499.3 6154.3 5866.9 5914.4 5698.7 6496.0 6199.3 <th>15</th> <th></th> <th>4396.1</th> <th>5673.7</th> <th>5234.2</th> <th>5286.4</th> <th>4889.7</th> <th>5307.6</th> <th>5561.6</th> <th>5508.2</th> <th>7832.5</th> <th>7876.5</th> <th>7478.0</th>	15		4396.1	5673.7	5234.2	5286.4	4889.7	5307.6	5561.6	5508.2	7832.5	7876.5	7478.0
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Khuvsgul 4951.5 5604.2 5524.1 5202.8 4499.3 6154.3 5866.9 5911.4 5542.4 6498.2 Khentii 5092.0 5159.2 5429.0 5375.5 6646.0 6299.0 6199.3 6348.9 6016.5 7039.9 Province average 4853.1 5291.5 5575.4 5695.7 6217.2 6417.6 6349.0 6658.7 6816.5 7392.0 Ulaanbaatar 5610.8 6712.3 6601.0 6405.5 6151.2 6879.2 794.9 8770.3 8644.1 9250.5 National average 5147.5 5883.7 5987.0 6187.2 6629.3 7091.8 7633.2 7649.5 8245.4	19		3999.4	4153.0	3979.4	4235.9	7008.4	0.9699	5966.4	5459.2	5566.8	5913.1	7297.1
Khentii 5092.0 5159.2 5429.0 5375.5 6646.0 6299.0 6199.3 6198.3 6016.5 7039.9 Province average 4853.1 5291.5 5575.4 5695.7 6217.2 6417.6 6349.0 6658.7 6816.5 7392.0 Ulaanbaatar 5610.8 6712.3 6601.0 6405.5 6151.2 6879.2 7949.9 8770.3 8644.1 9250.5 National average 5147.5 5883.7 5987.0 6187.2 6629.3 7091.8 7633.2 7649.5 8245.4	20		4951.5	5604.2	5524.1	5202.8	4499.3	6154.3	5866.9	5911.4	5542.4	6498.2	8001.0
Province average 4853.1 5291.5 5575.4 5695.7 6217.2 6417.6 6349.0 6658.7 6816.5 7392.0 Ulaanbaatar 5610.8 6712.3 6601.0 6405.5 6151.2 6879.2 7949.9 8770.3 8644.1 9250.5 National average 5147.5 5853.2 5987.0 6187.2 6629.3 7091.8 7633.2 7649.5 8245.4	21		5092.0	5159.2	5429.0	5375.5	6646.0	6299.0	6199.3	6348.9	6016.5	7039.9	7298.4
Ulaanbaatar 5610.8 6712.3 6601.0 6405.5 6151.2 6879.2 7949.9 8770.3 8644.1 9250.5 National average 5147.5 5853.2 5988.7 5987.0 6187.2 6629.3 7091.8 7633.2 7649.5 8245.4	22		4853.1	5291.5	5575.4	5695.7	6217.2	6417.6	6349.0	6658.7	6816.5	7392.0	8198.5
National average 5147.5 5853.2 5988.7 5987.0 6187.2 6629.3 7091.8 7633.2 7649.5 8245.4	23		5610.8	6712.3	6601.0	6405.5	6151.2	6879.2	7949.9	8770.3	8644.1	9250.5	10770.4
	24		5147.5	5853.2	5988.7	5987.0	6187.2	6629.3	7091.8	7633.2	7649.5	8245.4	9360.1



NATIONAL HEALTH PROGRAMME

"NATIONAL, CHILD, REUSE HEALTH" NATIONAL PROGRAM

Indicators	Details
Date and number of the Government Resolution which approved the programm	Resolution # 78 of 2017
Duration	2017-2021
Main objective	To reduce maternal and child mortality by delivering accessible, equitable and quality health care for all creating a favorable socio-economic environment and sustained funding for programme implementation and ensuring the participation of the community and civil society organizations.

	Programme go	oal and objectives	Baseline 2016 (unless otherwise stated)	2017	2020 Baseline and targets
		Outcome indicators			
	Reduce maternal and child mortality by delivering accessible, equitable and quality	Maternal mortality ratio (per 100,000 live births)	48.6	26.9	25.0
	health care for all, creating a favorable socio- economic environment and sustained funding	Under 5 child mortality rate (per 1000 live births)	20.8	16.7	15.0
Goal	for programe imeplemmtation, and ensuring the participation of the community and civil	infant mortality rate (per 1000 live births)	16.8	13.6	13.0
	society organizations	Neonatal mortality rate (1000 live births)	9.2	8.7	9.0
		Pernatal mortality rate (per 1000 live births)	12.9	12.4	11.9
		Outcome indicators			
	Create a mother nd child frindly legal	The number of new and amended laws to improve maternal, child and reproductive health			Not less than 5
Objective 1	environment by incirporating the maternal, child and reproductive health issues in the policies of other sectors, and supporting	The number of aimag and districts with reproductive health untis /complexes/	Every year 3-5	3-5	15-25
Obje	policies of other sectors, and supporting partnerships with governmental and non-governmental organizations, and private	The number of adolescent -friendly health clinics	29	29	35.0
		The amount of government budget spent on procurement of contraceptives	150 million	150	400 million
ctive 2	policies of other sectors, and supporting partnerships with governmental and non-governmental organizations, and private sector	First trimester antenatal care (ANC) enrollment	84.7	86.8	90
		Proportion of pregnant women with at least 6 ANC visits	77.5	85.8	88.0
		Congenital syphilis rate (per 100,000 live birhhs)	53.7	79.4	20.0
	deliver accessible and equitable quality maternal, child and reproductive health	Proportion of pregnant women screened for structural fetal abnormality at 18-21 weeks of pregnancy	50	50	80
Objective	services for all	Proportion of deliveries where disposable delivery kits were used	30.0	30	100.0
		Proportion of maternal 'near misses ' after cesarean section	24.8	1	20.0
		Proportion of newborn who received early essential newborn care	70.0	65-70	100.0
		Percentage of reproductive age women using modern contraception	48.2 (Baseline)	53.2	60.0
Objective 3	Reduce unwanted pregnancies and induced abortions by increasing the access to and demand for reproductive rights- based family planning services	Contraceptive demand satisfied	70 /2014 (Baseline)	70	80.0
0	Picining Scivices	Abortion rate (per 1000 live briths)	224.6	235.8	200.0
		Percentage of primary health facilities with at least 5 contraceptive methods	30.4 /2015 (Baseline)/	30.4	50.0

Center for Health Development

		HIV/AIDS comprehensive correct knowledge among 15-24 years old male and female	22.8 20.7/2014 (Baseline)	22.8	50.0
7hiactiva4	Provide the population with gender- sensitive health education to increase healthy behavior, and the participation and	Abolescent birth rate (per 1000 girls with age of 15-19	40.4/2014 (Baseline)	23.1	30.0
ig	accountability of family and community	The number of chid deaths due to accidents	210.0	168	116.0
ō	members in safeguarding maternal, child and reproductive .	Proportion of deaths due to pneumonia in the structure of causes of under 5 mortality	15.5	12.9	10.0
		Proportion of babies who are exclusively breastfed for first 6 months	47.1/2014 (Baseline)	47.1	60.0
797	Improve the registry surveillance, and	Percentage of health facilities reporting under 5 deaths according to the approved form	all facilities	all facilities	all facilities
Ohiective5	demand for reproductive rights-based family planning services	Proportion of health facilities reporting under 5 congenital abnormalities according to the approved from	all facilities	all facilities	all facilities
		Proportion of hospitals implementing the early essential newborn care screening	all facilities	all facilities	all facilities

NATIONAL PROGRAMME ON THE PREVENTION AND CONTROL OF COMMUNICABLE DISEASES

Indicator	Details
Date and number of the Government Resolution which approved the programm	Resolution # 11of 2017
Duration	2017-2021
Main objective	"To increase the involvement of other sectors in the surveillance, prevention and response of epidemics to the flexibility, quality, accessibility and prompt delivery of the disease and to reduce the spread of infectious diseases through financial sustainability of the program"

			Baseline)	үн			
Nº		Indicators	2015 (unless otherwise stated)	2016	2017	2020 Baseline and targets		
		on of surveillance of vaccine preventable diseases and d sing immunization coverage.	lecrease infe	ctious dise	ase incide	nce and		
1	% of soum and distri	ct level to reach >95% of the vaccination coverage	80%	65.2%	65.2%	95%		
2	Percentage of Immu	nization coverage, at the national level.		98.9%	99.6%	88%		
3	% dropout for Immunization coverage, at the national level Pentavac, MMR 1 MMR1-HepA1 HepA1-HepA2			1.1% 4.1% 0.1%	0.2% 0.3% 0.1%	1.5% 2.0% 2.0%		
4	The number of recor laboratory.	nnaissance for acute paralysis and of indicators for	18	7	6	19		
5	Percentage of aimag cases of measles, by	20%	100%	100%	100%			
6	The number of new		1	1	3			
Objective 2. Prevention and early diagnosis of viral hepatitis, contain prevalence of hepatitis virus infection among general population and decrease viral hepatitis incidence and mortality.								
1	Number of units to conhepatitis.	0	30	62	30			
2	Percentage of infants 24 hours	93%	97%	98%	95%			
3	Percentage of immu		80%	82%	90%			
4	The incidence rate Viral hepatitis /total/		3.0	1.9	1.7	13		
5	of viral hepatitis / an average last 5	Viral hepatitis A	0.3	0.1	0.2	10		
6	years/	Viral hepatitis B	1.6	1.2	1	0.5		
8	Viral hepatitis C Percentage of health organization, with system of quality of disinfectant by biological indicator and of monitor test of spread of steam.		30%	0.3 40%	0.3 Biological indicator 60% spread of steam 80%	0.5 70%		
9	Percentage of population permitted for hepatitis B and hepatitis C testing.		0	B-11% C-21%	47%	40%		
10	Percentage of popul	0	4%	4%	40%			
11	Percentage of popul		2-4%	4	30%			
Objective 3. Ensure response preparedness through extending surveillance of emerging and re-emerging infections, pandemic, influenza and influenza like illnesses.								
1	1 Number of tuberculosis /per 100.000 population/ 154.7 146.2 136.6 158.9							
2	Mortality rate of tube	rculosis. /per 100 000 population/	8.5	9.0	7.1	6.5		

The results of treatment for new cases to compirmed by pulmonary bacteriological examination. Percentage of drug sensitive tested from the drug resistant types. 61 The result of treatment for multidrug resistance and rifampicin resistance types 67.2% 63.50% 71% Objective 4. Provide client oriented integrated tuberculosis care and services through introduction of new methods of detection, diagnosis and treatment and expanding intersectoral multilateral collaboration. 1 Number of tuberculosis /per 100.000 population/ 1 Number of tuberculosis /per 100.000 population/ 2 Mortality rate of tuberculosis. /per 100.000 population/ 3 Percentage of screening for tuberculosis 4 The results of treatment for new cases to compirmed by pulmonary bacteriological examination. 5 Percentage of drug sensitive tested from the drug resistant types. 6 The results of treatment for multidrug resistance and rifampicin resistance types Objective 5. Reduce prevalence of STIs and HIV through prevention, early detection and increasing integrated and quality care 8 services. 1 The prevalence of syphilis among female sex workers 1 The prevalence of syphilis among men who have sex with men 2 Typik/KTC 2014 29.7 24.5% 24% 24% 29.7 24.5% 24% 24% 29.7 24.5% 24% 29.7 2	3	Percentage of screening for tuberculosis	37%	38.9%	32.00%	45%				
samination. Percentage of drug sensitive tested from the drug resistant types. For percentage of drug sensitive tested from the drug resistant types. For sensition of the attiment for multidrug resistance and rifampicin resistance types. For sensition of the attiment for multidrug resistance and rifampicin resistance types. For sensition of the attiment and expanding intersectoral multilateral collaboration. For sensition of tuberculosis /per 100.000 population/ Mortality rate of tuberculosis /per 100.000 population/ Mortality rate of tuberculosis /per 100.000 population/ Mortality rate of tuberculosis /per 100.000 population/ The results of treatment for new cases to compirmed by pulmonary bacteriological examination. For percentage of drug sensitive tested from the drug resistant types. For percentage of drug sensitive tested from the drug resistant types. For examination. For examination. For examination. For examination attended in the drug resistant types. For exam		<u> </u>								
6 The result of treatment for multidrug resistance and rifampicin resistance types 67.2% 63.0% 71% Objective 4. Provide client oriented integrated tuberculosis care and services through introduction of new methods of detection, diagnosis and treatment and expanding intersectoral multilateral collaboration. 1 Number of tuberculosis /per 100.000 population/ 154.7 146.2 136.6 158.9 16.5 19.0 7.1 7.1 6.5 19.0 7.1 7.1 6.5 19.0 7.1 7.1 6.5 19.0 7.1 7.1 6.5 19.0 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1		examination.	84.2%		84.80%	90%				
Objective 4. Provide client oriented integrated tuberculosis care and services through introduction of new methods of detection, diagnosis and treatment and expanding intersectoral multilateral collaboration. 1 Number of tuberculosis /per 100.000 population/ 154.7 146.2 136.6 158.9 2 Mortality rate of tuberculosis. /per 100.000 population/ 8.5 9.0 7.1 6.5 3 Percentage of screening for tuberculosis			61%							
Number of tuberculosis /per 100.000 population/		0 1 71								
Mortality rate of tuberculosis. /per 100 000 population/ Percentage of screening for tuberculosis Near the results of treatment for new cases to compirmed by pulmonary bacteriological at 2.%				ction of ne	w methods	s of				
Percentage of screening for tuberculosis Percentage of furg sensitive freatment for new cases to compirmed by pulmonary bacteriological 84.2% 84.5% 84.8% 90% 90% 90% 90% 90% 90% 90% 90% 90% 90	1	Number of tuberculosis /per 100.000 population/	154.7	146.2	136.6	158.9				
The results of treatment for new cases to compirmed by pulmonary bacteriological examination. Percentage of drug sensitive tested from the drug resistant types. 6 Percentage of drug sensitive tested from the drug resistant types. 6 The result of treatment for multidrug resistance and rifampicin resistance types 6 7.2% 6 3.5% 7 1% Objective 5. Reduce prevalence of STIs and HIV through prevention, early detection and increasing integrated and quality care & services. 1 The prevalence of syphilis among female sex workers 2 9.7% / XTC 2014	2	Mortality rate of tuberculosis. /per 100 000 population/	8.5	9.0	7.1	6.5				
examination. 84.2% 84.5% 84.6% 90% Percentage of drug sensitive tested from the drug resistant types. 61% 81% 85% 90% The result of treatment for multidrug resistance and rifampicin resistance types 67.2% 63.5% 71% Dejective 5. Reduce prevalence of STIs and HIV through prevention, early detection and increasing integrated and quality care & services. The prevalence of syphilis among female sex workers 29.7% / XTC 2014 29.7 24.5% 24% only 29.7 only 24.5% 24% only 29.7 only 29.7 only 24.5% 24% only 29.7 only 29.7 only 20.4 only 29.7 only 29.0 only	3	Percentage of screening for tuberculosis	37%	38.9%	32.0%	45%				
Cobjective 5. Reduce prevalence of STIs and HIV through prevention, early detection and increasing integrated and quality care & services. 1 The prevalence of syphilis among female sex workers 29.7% / XTC 2014	4	, ,, ,	84.2%	84.5%	84.8%	90%				
Objective 5. Reduce prevalence of STIs and HIV through prevention, early detection and increasing integrated and quality care & services. 1 The prevalence of syphilis among female sex workers 29.7% / XTC 2014 only 29.7 and 24.5% 24% only 29.7 and 24.5% 24% only 29.7 and 29.7 and 24.5% 24% only 29.7 and 29.7 a	5	Percentage of drug sensitive tested from the drug resistant types. 61% 81% 85								
the prevalence of syphilis among female sex workers 1 The prevalence of syphilis among female sex workers 2 The prevalence of syphilis among men who have sex with men 2 The prevalence of syphilis among men who have sex with men 3 Percentage of treating HIV-infected people, of all target population with access 83%/2015 oh// 97.5 90.0% 90%	6	The result of treatment for multidrug resistance and rifampicin resistance types	result of treatment for multidrug resistance and rifampicin resistance types 67.2% 63.5							
1 The prevalence of syphilis among female sex workers 29.7% / XTC 2014 29.7 24.5% 24% only only only only only only only only	Objective 5. Reduce prevalence of STIs and HIV through prevention, early detection and increasing integrated and quality									
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Percentage of treating HIV-infected people, of all target population with access 83%/2015 oH/ 97.5 90.0% 90% 97.5 90.0% 90% 4 Incidence rate of among 15-24 ages (per 10000 population) 66% 54.20% 53.1% 46% 5 Percentage of confirmed with HIV, by laboratory testing. 35.5 32.0% 90% Objective 6. Extend surveillance of diseases of zoonotic origin, vector borne and neglected zoonotic diseases and improve outbreak response capacity. 48% 52% 70% 1 Percentage of epicenter of the zoonosis, new and renewable zoonotic diseases. 40% 48% 52% 70% 2 Incidence rate of zoonotic diseases (per 10000 population) 0.07 1.08 1.5 0.5 3 Percentage of the soum health centers that provides remote, diagnosis and treatment for brucellosis. 50% 50% 50% 50% 100% 4 "Percentage of aimag general hospitals and RDTC's, of using infection diagnostic enzyme immune system of brucellosis. 0% 9.5% 5.0% 100% 5 Tested by laboratory analysis of local zoonotic disease center certified by national reference laboratory 30% 0% 100% 80% 6 Number of laboratories with quality control over diagnostic disease of zoonosis 1 1 1 1 Objective 7. Improve field epidemiology training programme and strengthen and improve risk communication capacity. 1 Number of new established units for field epidemiology training. 0 0 1 2 2 Number of research, reports and recommendations, performed by field 18 9 20	2	The prevalence of syphilis among men who have sex with men	7.1% /XTC	7.1	9.2%	4%				
Incidence rate of among 15-24 ages (per 10000 population) Percentage of confirmed with HIV, by laboratory testing. 35.5 32.0% 90% Objective 6. Extend surveillance of diseases of zoonotic origin, vector borne and neglected zoonotic diseases and improve outbreak response capacity. Percentage of epicenter of the zoonosis, new and renewable zoonotic diseases. 40% 48% 52% 70% Incidence rate of zoonotic diseases (per 10000 population) Percentage of the soum health centers that provides remote, diagnosis and treatment for brucellosis. Percentage of aimag general hospitals and RDTC's, of using infection diagnostic enzyme immune system of brucellosis. Tested by laboratory analysis of local zoonotic disease center certified by national reference laboratory Number of laboratories with quality control over diagnostic disease of zoonosis Number of new established units for field epidemiology training. Number of research, reports and recommendations, performed by field Number of research, reports and recommendations, performed by field		Percentage of treating HIV-infected people, of all target population with access	83%/2015							
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Objective 6. Extend surveillance of diseases of zoonotic origin, vector borne and neglected zoonotic diseases and improve outbreak response capacity. 1 Percentage of epicenter of the zoonosis, new and renewable zoonotic diseases. 40% 48% 52% 70% 2 Incidence rate of zoonotic diseases (per 10000 population) 0.07 1.08 1.5 0.5 3 Percentage of the soum health centers that provides remote, diagnosis and treatment for brucellosis. 4 Percentage of aimag general hospitals and RDTC's, of using infection diagnostic enzyme immune system of brucellosis. 5 Tested by laboratory analysis of local zoonotic disease center certified by national reference laboratory 6 Number of laboratories with quality control over diagnostic disease of zoonosis 1 1 1 1 Objective 7. Improve field epidemiology training programme and strengthen and improve risk communication capacity. Number of new established units for field epidemiology training. 0 0 1 2 Number of research, reports and recommendations, performed by field 18 9 20			0070							
outbreak response capacity. 1 Percentage of epicenter of the zoonosis, new and renewable zoonotic diseases. 40% 48% 52% 70% 2 Incidence rate of zoonotic diseases (per 10000 population) 0.07 1.08 1.5 0.5 3 Percentage of the soum health centers that provides remote, diagnosis and treatment for brucellosis. 50% 50% 50% 50% 100% 4 "Percentage of aimag general hospitals and RDTC's, of using infection diagnostic enzyme immune system of brucellosis. 0% 9.5% 5.0% 100% 5 Tested by laboratory analysis of local zoonotic disease center certified by national reference laboratory 30% 0% 100% 80% 6 Number of laboratories with quality control over diagnostic disease of zoonosis 1 1 1 0 0 1 1 1 Number of new established units for field epidemiology training. 0 0 1 2 2 Number of research, reports and recommendations, performed by field 18 9 20	, , , ,									
2 Incidence rate of zoonotic diseases (per 10000 population) 3 Percentage of the soum health centers that provides remote, diagnosis and treatment for brucellosis. 4 "Percentage of aimag general hospitals and RDTC's, of using infection diagnostic enzyme immune system of brucellosis. 50% 50% 50% 100% 5 Tested by laboratory analysis of local zoonotic disease center certified by national reference laboratory Number of laboratories with quality control over diagnostic disease of zoonosis 1 1 1 Objective 7. Improve field epidemiology training programme and strengthen and improve risk communication capacity. Number of new established units for field epidemiology training. 0 0 1 2 Number of research, reports and recommendations, performed by field	•	· · · · · · · · · · · · · · · · · · ·	neglected 20	onotic dis	cases and	IIIpiove				
Percentage of the soum health centers that provides remote, diagnosis and treatment for brucellosis. Percentage of aimag general hospitals and RDTC's, of using infection diagnostic enzyme immune system of brucellosis. Tested by laboratory analysis of local zoonotic disease center certified by national reference laboratory Number of laboratories with quality control over diagnostic disease of zoonosis Number of new established units for field epidemiology training. Number of research, reports and recommendations, performed by field Number of research, reports and recommendations, performed by field	1	Percentage of epicenter of the zoonosis, new and renewable zoonotic diseases.	40%	48%	52%	70%				
treatment for brucellosis. Terror tailing general hospitals and RDTC's, of using infection diagnostic enzyme immune system of brucellosis. Tested by laboratory analysis of local zoonotic disease center certified by national reference laboratory Number of laboratories with quality control over diagnostic disease of zoonosis Number of new established units for field epidemiology training. Number of research, reports and recommendations, performed by field Number of research, reports and recommendations, performed by field	2	Incidence rate of zoonotic diseases (per 10000 population)	0.07	1.08	1.5	0.5				
4 diagnostic enzyme immune system of brucellosis. 5 Tested by laboratory analysis of local zoonotic disease center certified by national reference laboratory 6 Number of laboratories with quality control over diagnostic disease of zoonosis 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3		50%	50%	50%	100%				
reference laboratory 6 Number of laboratories with quality control over diagnostic disease of zoonosis 1 1 1 Objective 7. Improve field epidemiology training programme and strengthen and improve risk communication capacity. Number of new established units for field epidemiology training. 0 0 1 2 Number of research, reports and recommendations, performed by field 2 18 9 20	4		0%	9.5%	5.0%	100%				
Objective 7. Improve field epidemiology training programme and strengthen and improve risk communication capacity. 1 Number of new established units for field epidemiology training. 0 0 1 2 Number of research, reports and recommendations, performed by field 2 18 9 20	5		30%	0%	100%	80%				
1 Number of new established units for field epidemiology training. 0 0 1 2 Number of research, reports and recommendations, performed by field 18 9 20	6	Number of laboratories with quality control over diagnostic disease of zoonosis		1	1	1				
Number of research, reports and recommendations, performed by field 2	Obje	ective 7. Improve field epidemiology training programme and strengthen and	improve risk	communic	ation capa	icity.				
2 18 9 20	1	Number of new established units for field epidemiology training.	0	0	1	2				
	2	Number of research, reports and recommendations, performed by field epidemiologists		18	9	20				
Outcome indicators										
1 Incidence of tuberculosis /per 10000 population/ 14.1 13.1 12.2 10.0	1		14.1	13.1	12.2	10.0				
2 Mortality rate of tuberculosis /per 100 000 population/ 8.5 9.0 7.1 6.5										
3 Acute hepatitis A (per 10000 population) 9.1 0.1 0.16 8.0		, , , , , , , , , , , , , , , , , , , ,								
4 Acute hepatitis B (per 10000 population) 1.6 1.2 1.1 1.3										
5 Shigellosis (per 10000 population) 9.2 9.3 13.2 7.0		, , ,								
Syphilis, gonorrhea and trichomoniasis in common sexually transmitted diseases	Ü	, , ,	ყ.∠	ყ.ა	13.2	7.0				
6 (per 10000 population) 563 48.4 49.5 10.0	6	(per 10000 population)	563	48.4	49.5	10.0				
7 Prevalence of pregnant women with syphilis 3% 2.4% 2.4% 2%	7	Prevalence of pregnant women with syphilis	3%	2.4%	2.4%	2%				
8 Number of congenital syphilis 52 42 59 34	8	Number of congenital syphilis	52	42	59	34				
9 Brucellosis (per 10000 population) 0.5 0.5					1					

NATIONAL PROGRAMME ON THE PREVENTION AND CONTROL OF NON-COMMUNICABLE DISEASES

Indicator	Details				
Date and number of the Government Resolution which approved the programm	Resolution # 289 of 2017				
Duration	2017-2030				
Main objective	The goal of the Programme is to contain the prevalence of commonly occurring NCDs and their risk factors based on the multilateral cooperation among organizations, communities, families and individual citizens, to strengthen the prevention, control, early detection and surveillance of diseases.				

				Expected						
Nº	Indicators	2016	2017	2019	2021					
	A. Outcome indicators:	ı								
	I.Indicators on primary risk factors for NCDs									
1	Smoking population rate, by percentage	27.1	27.1	27	26					
2	Adolescents aged 13-15 years who smoke cigarettes 1.2 times in the past 30 days, by percentage	5.9	5.9	5.4	4.9					
3	Adolescents aged 16-17 years who smoke cigarettes 1.2 times in the past 30 days, percentage	17.5	17.5	16.0	14.5					
4	People who were exposed to secondhand smoke at workplace in the past 30 days, by percentage	25.5	25.5	23.4	21.3					
5	Amount of recorded alcohol consumption per person aged 15 years or older, bylitres (in pure alcohol)	7.2	9.8	7.0	6.9					
6	People who excessively consume alcohol, by percentage	10.3	23.5	10	9.6					
7	School children aged 15-17 years who have excessively consumed alcohol 1-2 times, by percentage	23.1	23.1	22.3	21.6					
8	Average daily salt intake of the population aged 25-64 years old (grammes/ day)	11.1	11.1	10	8.9					
9	Population with physical inactivity, by percentage		22.3	21.6	20.3					
	II. Indicators on intermediate risk factors for NCDs									
1	Percentage of the population with overweight and obesity, (BMI>25kg/m)	54.4	54.4	49.9	45.3					
2	Prevalence of hypertension (systolic blood pressure >140,diastolic blood pressure >90 and use of antihypertensive medication),by percentage	27.5	27.5	25.2	22.9					
3	Percentage of the population who have total blood cholesterol level of 5 mmol/l or above, by percentage	61.9	61.9	56.7	51.9					
4	Percentage of the population who have blood glucose level of 5.6-6.0 mmol/l or above, by percentage $$	8.3	8.3	7.6	6.9					
5	Population who have increased blood glucose level of 6.1 mmol/l or higher and on glucose-lowering medication, by percentage	6.9	6.9	6.3	5.8					
	III.Indicators on early detection of NCD and morbidity									
1	Population early screened for cervical cancer, by percentage (30-60 years old)	44.9	37.4	46.3	51.9					
2	Population early screened for breast cancer, by actual number (30-60 years old)	286921	354572	291121	307921					
3	Population early screened for liver cancer, by percentage (40-65 years old)	30.0	37.8	30.0	70.0					
4	Percentage of the population diagnosed with early stage liver cancer (percentage of 1,2 stages)	18.9	20.3	20.7	28.0					
5	Percentage of the population diagnosed with early stage cervical cancer (percentage of 1stages)	37.5	37.4	42.5	62.5					
6	Population early screened for high blood pressure, by percentage (40-64 years old)	65.1	66.7	69	79.5					
7	Population early screened for diabetes, by percentage (40-64 years old)	60.3	63.2	65.0	77.5					
	B.Indicators on the Programme effciency	/								
1	Mortality from cancer (10 000 population)	13.8	13.0	11.6	10.5					
2	Mortality from cardiovascular diseases (10 000 population)	17.8	17.4	17.6	17.4					
3	Patients hospitalized due to nephritis, by percentage	63.9	63.1	63.5	62					

MENTAL HEALTH SECOND NATIONAL PROGRAMME

Indicators	Details				
Date and number of the Government Resolution which approved the programme					
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				

Nº	Indicators	2009	2010	2011	2012	2013	2014	2015	2016	2017	Changes as planned in 2019
То	increase quality and access of mental health services and care										
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	2.5	1.60	Decrease by 10%
2	Number of bed for mental disorders at province, district hospitals (per 10 000 population)	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	Increase by 10 %
3	Number of family centers that operate in communities	12	12	14	14	14	14	12	12	12	16
4	Number of mental health doctors at province, district level (per 10 000 population)	0.1	0.1	0.43	0.4	0.4	0.1	0.2	0.2	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	25.0	50.0	80.0	80.0	85.0
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	5.5	5.5	15.0
7	Percentage of province, 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	29.0	29.0	29.0	29.0	100.0



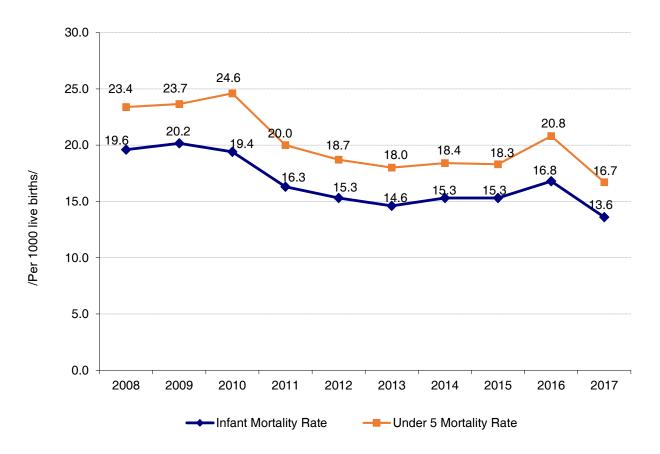
HEALTH INDICATORS

MAIN HEALTH INDICATORS, 2017

Crude Birth and Death Rates and Population Growth /2008-2017/



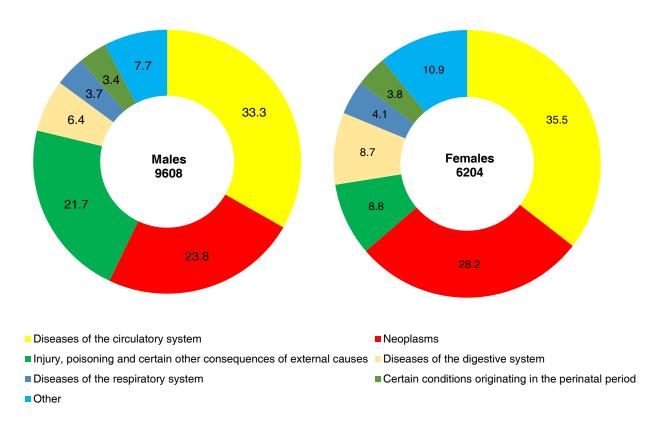
Infant and Under Five Mortality Rates /2008-2017/



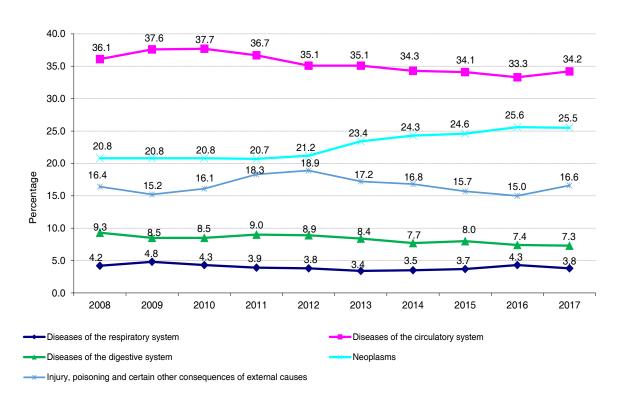
DEATHS BY CAUSES AND SEX, 2017

	To	otal	Ma	ales	Fem	ales
Main Causes ICD-10	"Abs. number"	per 10 000 pop	"Abs. number"	per 10 000 pop	"Abs. number"	per 10 000 pop
Diseases of the circulatory system	5405	17.45	3201	21.06	2204	13.97
Neoplasms	4037	13.03	2289	15.06	1748	11.08
Injuiry, poisoning and certain other consequences of external causes	2630	8.49	2086	13.72	544	3.45
Diseases of the digestive system	1155	3.73	616	4.05	539	3.42
Diseases of the respiratory system	605	1.95	352	2.32	253	1.60
Certain conditions originating in the perinatal period	559	1.80	326	2.14	233	1.48
Certain infectious and parasitic diseases	276	0.89	194	1.28	82	0.52
Diseases of the nervous system	267	0.86	146	0.96	121	0.77
Diseases of the genito-urinary system	245	0.79	119	0.78	126	0.80
Congenital malformations, deformations and chromosomal abnormalities	197	0.64	104	0.68	93	0.59
Others	436	1.41	175	1.15	261	1.65
Total	15812	51.04	9608	63.20	6204	39.33

Main Causes of Death, by percentage and sex 2017



Five Leading Causes of Death, /2008-2017/



FIVE LEADING CAUSES OF DEATH (BY PROVINCE), 2017

				per 10 000 popu	ılation	
Nº	Province, city	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
Α	В	1	2	3	4	5
1	Arkhangai	16.98	12.63	7.32	2.23	1.91
2	Bayan-Ulgii	20.80	7.96	4.68	1.99	3.88
3	Bayankhongor	18.08	11.82	8.58	4.52	2.55
4	Bulgan	24.19	16.07	7.31	3.09	0.97
5	Govi-Altai	20.50	15.77	6.48	2.98	0.70
6	Govisumber	18.64	15.15	11.07	2.91	2.91
7	Darkhan-Uul	21.72	14.68	8.53	2.38	1.39
8	Dornogovi	13.80	12.31	12.91	3.56	1.48
9	Dornod	18.69	17.04	7.50	3.69	2.42
10	Dundgovi	18.50	14.36	8.49	1.96	1.74
11	Zavkhan	20.99	15.53	6.16	1.26	1.12
12	Orkhon	17.39	16.02	7.07	2.55	1.38
13	Uvurkhangai	21.52	12.02	6.97	3.83	2.35
14	Umnugovi	18.56	8.51	8.35	4.18	2.47
15	Sukhbaatar	15.66	16.65	5.60	3.63	2.31
16	Selenge	18.66	11.42	5.94	4.64	1.67
17	Tuv	21.68	11.21	3.52	2.88	1.71
18	Uvs	18.17	16.10	5.73	4.39	0.98
19	Khovd	17.26	14.25	7.53	2.08	1.62
20	Khuvsgul	27.39	14.04	9.31	2.52	2.06
21	Khentii	15.10	13.90	6.42	4.14	3.07
22	Province average	19.60	13.46	7.21	3.12	1.94
23	Ulaanbaatar	14.83	12.52	10.04	4.47	1.97
24	National average	17.45	13.03	8.49	3.73	1.95

CAUSES OF INFANT AND UNDER 5 DEATHS, 2017

	0-1 a	ige	unde	r 5
Diseases group according to ICD-10	"Abs. number"	%	"Abs. number"	%
Certain conditions originating in the perinatal period	559	55.4	559	44.9
Diseases of the respiratory system	122	12.1	162	13.0
Congenital malformations, deformations and chromosomal abnormalities	148	14.7	169	13.6
Injuiry, poisoning and certain other consequences of external causes	65	6.4	162	13.0
Diseases of the digestive system	34	3.4	46	3.7
Diseases of the nervous system	17	1.7	38	3.1
Certain infectious and parasitic diseases	21	2.1	31	2.5
Other	43	4.3	77	6.2
Total	1009	100.0	1244	100.0

CAUSES OF INFANT MORTALITY BY PERCENTAGE (2013-2017)

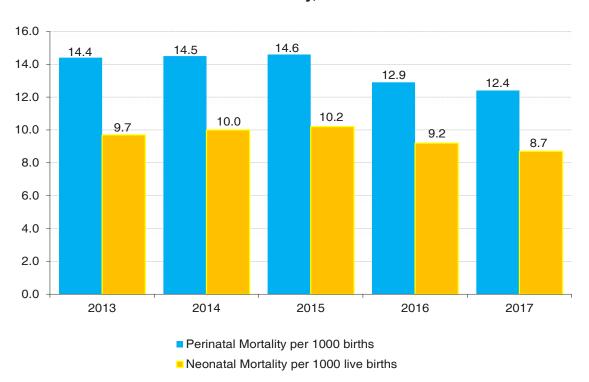
Causes	2013	2014	2015	2016	2017
Certain conditions originating in the perinatal period	52.9	55.3	59.6	44.3	55.4
Diseases of the respiratory system	15.7	14.2	12.1	16.4	12.1
Congenital malformations, deformations and chromosomal abnormalities	15.1	13.3	10.4	12.5	14.7
Injuiry, poisoning and certain other consequences of external causes	6.9	6.6	5.6	5.8	6.4
Diseases of the digestive system	2.7	2.7	2.9	2.4	3.4
Diseases of the nervous system	4.4	4.2	3.7	4.8	1.7
Certain infectious and parasitic diseases	1.1	1.2	2.6	10.7	2.1

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

INFANT MORTALITY, 2017

Causes	Rate					
Infant mortality rate /per 1 000 live births/	13.6					
Early neonatal mortality rate /per 1 000 live births/	6.4					
Post neonatal mortality rate /per 1 000 live births/						
Neonatal mortality rate /per 1 000 live births/	8.7					
Perinatal mortality rate /per 1 000 births/	12.4					

Infant Mortality, /2013-2017/



INFANT MORTALITY, 2017

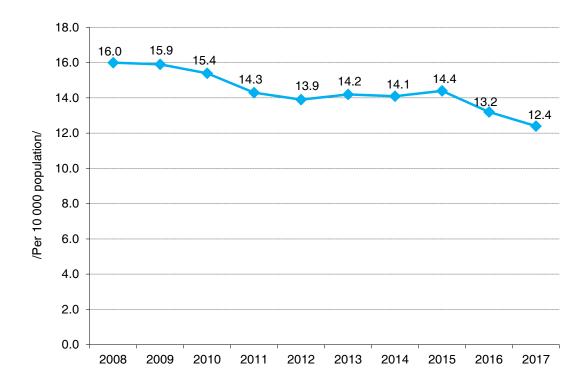
Nº	Province and city	Perinatal mortality per 1 000 births	Still births per 1 000 births	Neonatal mortality per 1 000 live births	Early neonatal mortality per 1 000 live births	Post neonatal mortality per 1 000 live births
Α	В	1	2	3	4	5
1	Arkhangai	10.5	3.1	10.0	7.4	2.6
2	Bayan-Ulgii	13.2	8.7	6.0	4.6	1.4
3	Bayankhongor	11.4	5.0	8.0	6.5	1.5
4	Bulgan	7.2	0.0	7.2	7.2	0.0
5	Govi-Altai	14.7	5.7	11.5	9.0	2.5
6	Govisumber	4.8	4.8	2.4	0.0	2.4
7	Darkhan-Uul	9.3	3.5	6.6	5.8	0.9
8	Dornogovi	14.3	4.5	10.6	9.8	0.8
9	Dornod	13.3	7.2	8.8	6.2	2.6
10	Dundgovi	9.0	3.4	5.7	5.7	0.0
11	Zavkhan	16.5	6.0	11.3	10.5	0.8
12	Orkhon	8.9	6.5	2.7	2.3	0.4
13	Uvurkhangai	11.1	4.1	9.5	7.0	2.5
14	Umnugovi	14.5	8.4	10.8	6.1	4.6
15	Sukhbaatar	11.7	5.5	9.4	6.3	3.1
16	Selenge	7.0	3.5	5.8	3.5	2.3
17	Tuv	9.2	3.3	5.8	5.8	0.0
18	Uvs	15.6	6.8	11.8	8.8	2.9
19	Khovd	15.7	7.2	10.4	8.6	1.8
20	Khuvsgul	12.9	5.4	13.0	7.6	5.4
21	Khentii	11.0	5.5	7.6	5.5	2.1
22	Province average	11.9	5.5	8.5	6.5	2.1
23	Ulaanbaatar	12.9	6.6	8.9	6.3	2.6
24	National average	12.4	6.0	8.7	6.4	2.3

Health indicators, 2017 151

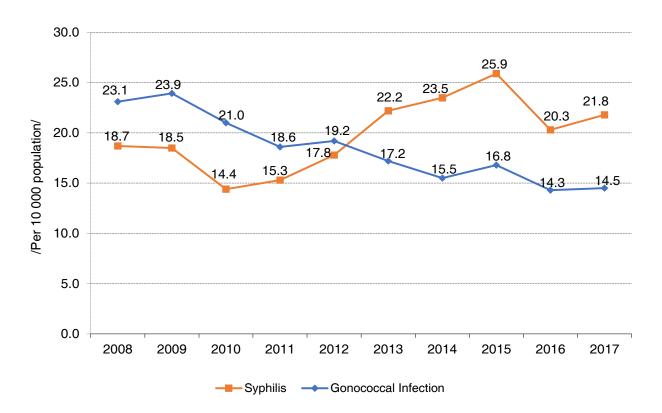
REGISTERED REPORTABLE INFECTIOUS DISEASES, PER 10 000 POPULATION, (2013-2017)

		Per	10 000 populat	ion	
Certain infectious and parasitic diseases	2013	2014	2015	2016	2017
Typhoid and paratypoid fevers	0.0	0.0	0.0	0.0	0.0
Salmonella infections	0.3	0.3	0.5	0.6	0.6
Shigellosis	7.0	7.9	9.2	9.3	13.2
Tuberculosis	14.6	14.2	14.4	13.2	12.4
Plague	0.0	0.0	0.0	0.0	0.0
Anthrax	0.0	0.0	0.0	0.0	0.0
Brucellosis	1.3	0.9	1.0	0.5	0.5
Scarlet fever	1.0	0.9	2.5	4.5	5.9
Meningococcal infection	0.1	0.0	0.0	0.0	0.0
Varicella	16.6	15.8	19.0	22.3	31.5
Measles	0.0	0.0	79.2	99.0	0.1
Rubella	0.1	0.0	0.2	0.2	0.0
Viral hepatitis	9.0	3.9	3.0	1.9	1.7
Acute hepatitis A	5.7	1.1	0.3	0.1	0.2
Acute hepatitis B	2.2	2.0	1.6	1.2	1.0
Acute hepatitis C	0.4	0.4	0.4	0.3	0.3
Mumps	18.7	1.5	0.8	1.1	0.7
Mycoses	4.0	6.5	5.8	4.6	4.8
Syphilis	22.2	23.5	25.9	20.3	21.8
Gonococcal infection	17.2	15.5	16.8	14.3	14.5
Trichomoniasis	13.5	13.0	13.6	14.3	13.9

Incidence of Tuberculosis /2008-2017/



Incidence of Syphilis and Gonococcal Infections /2008-2017/



PREVALENCE, INCIDENCE AND DEATH RATES OF MALIGNANT NEOPLASMS, 2017

		Preval	ence			Incid	ence	ence				De	aths		
		,		Ab	s.numt	per		r 10 0		Ab	s.numl	oer		er 10 00	
"Malignant neoplasms"	Nº	Abs.number	per 10 000 population	Total	Males	Females	Total	Males Males	Females	Total	Males	Females	Total	Males Males	Females
А	В	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Lip, oral cavity and pharynx	1	895	2.89	156	72	84	0.50	0.47	0.53	89	58	31	0.29	0.38	0.20
Oesophagus	2	881	2.84	344	186	158	1.11	1.22	1.00	275	155	120	0.89	1.02	0.76
Stomach	3	2829	9.13	889	575	314	2.87	3.78	1.99	621	402	219	2.00	2.64	1.39
Colon	4	653	2.11	188	79	109	0.61	0.52	0.69	113	48	65	0.36	0.32	0.41
Rectus and anus	5	211	0.68	53	27	26	0.17	0.18	0.16	44	20	24	0.14	0.13	0.15
Liver	6	6142	19.83	2312	1244	1068	7.46	8.18	6.77	1614	920	694	5.21	6.05	4.40
Pancreas	7	307	0.99	141	63	78	0.46	0.41	0.49	129	60	69	0.42	0.39	0.44
Other in digestive organs	8	141	0.46	45	24	21	0.15	0.16	0.13	36	24	16	0.12	0.16	0.10
Larynx	9	158	0.51	34	32	2	0.11	0.21	0.01	18	16	2	0.06	0.11	0.01
Trachea	10	39	0.13	11	9	2	0.04	0.06	0.01	9	8	1	0.03	0.05	0.01
Lung	11	927	2.99	435	358	77	1.40	2.35	0.49	382	316	66	1.23	2.08	0.42
Other in the respiratory system	12	71	0.23	19	11	8	0.06	0.07	0.05	13	7	6	0.04	0.05	0.04
Bone and articular cartilage	13	259	0.84	50	22	28	0.16	0.14	0.18	36	16	20	0.12	0.11	0.13
Skin	14	317	1.02	43	21	22	0.14	0.14	0.14	24	14	10	0.08	0.09	0.06
Mesothelial and soft tissue	15	175	0.56	39	18	21	0.13	0.12	0.13	17	8	9	0.05	0.05	0.06
Breast	16	1495	4.83	246	0	246	0.79	0.00	1.56	76	1	75	0.25	0.01	0.48
Cervix uteri	17	3704	11.96	356	0	356	1.15	0.00	2.26	127	0	127	0.41	0.00	0.81
Uterus	18	190	0.61	28	0	28	0.09	0.00	0.18	6	0	6	0.02	0.00	0.04
Ovary	19	520	1.68	91	0	91	0.29	0.00	0.58	55	0	55	0.18	0.00	0.35
Other female genital organs	20	120	0.39	10	0	10	0.03	0.00	0.06	7	0	7	0.02	0.00	0.04
Male genital organs	21	285	0.92	47	47	0	0.15	0.31	0.00	27	27	0	0.09	0.18	0.00
Cyst	22	203	0.66	37	29	8	0.12	0.19	0.05	25	19	6	0.08	0.12	0.04
Urology, nephrology	23	810	2.61	161	72	89	0.52	0.47	0.56	50	28	22	0.16	0.18	0.14
Other urinary organs	24	46	0.15	2	1	1	0.01	0.01	0.01	3	1	2	0.01	0.01	0.01
Ophtalmology	25	75	0.24	10	4	6	0.03	0.03	0.04	3	1	2	0.01	0.01	0.01
Brain	26	334	1.08	74	39	35	0.24	0.26	0.22	57	29	28	0.18	0.19	0.18
Luekaemia	27	248	0.80	87	58	29	0.28	0.38	0.18	50	30	20	0.16	0.20	0.13
Other	28	586	1.89	165	87	78	0.53	0.57	0.49	98	58	40	0.32	0.38	0.25
Total	29	22621	73.03	6073	3078	2995	19.61	20.25	18.99	4004	2266	1742	12.93	14.90	11.04

^{*} Source: National Center for Cancer, 2017 report.

PREVALENCE, INCIDENCE AND DEATHS OF MALIGNANT NEOPLASMS, 2017 (BY PROVINCE)

		Preval	ence			Incide	nce		•			Dea	aths		
				Ab	s.numt		pe	r 10 00		Ab	s.numb		ре	r 10 00	
Nº	Province and city	Abs.number	per 10 000 pop	Total	Males	Females	Total	Males Males	Females	Total	Males	Females	Total	pulatio Wales Wales	Females
Α	В	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Arkhangai	639	67.8	169	94	75	17.9	19.9	16.0	132	70	62	14.0	14.8	13.2
2	Bayan-Ulgii	397	39.5	146	71	75	14.5	14.2	14.9	78	37	41	7.8	7.4	8.1
3	Bayankhongor	418	48.4	120	61	59	13.9	14.3	13.5	102	56	46	11.8	13.2	10.5
4	Bulgan	538	87.4	181	102	79	29.4	32.6	26.1	112	61	51	18.2	19.5	16.8
5	Govi-Altai	521	91.3	155	84	71	27.2	29.6	24.8	95	56	39	16.6	19.7	13.6
6	Govisumber	122	71.1	42	25	17	24.5	29.1	19.8	36	19	17	21.0	22.1	19.8
7	Darkhan-Uul	900	89.3	265	141	124	26.3	28.5	24.1	170	96	74	16.9	19.4	14.4
8	Dornogovi	446	66.2	134	67	67	19.9	19.9	19.9	97	59	38	14.4	17.5	11.3
9	Dornod	650	82.7	204	113	91	25.9	28.6	23.2	153	91	62	19.5	23.1	15.8
10	Dundgovi	367	79.9	114	53	61	24.8	22.9	26.7	72	39	33	15.7	16.9	14.4
11	Zavkhan	664	92.9	209	106	103	29.2	29.7	28.8	117	78	39	16.4	21.9	10.9
12	Orkhon	1033	101.5	369	162	207	36.3	32.5	39.9	178	107	71	17.5	21.4	13.7
13	Uvurkhangai	823	71.7	285	138	147	24.8	24.1	25.5	162	79	83	14.1	13.8	14.4
14	Umnugovi	419	64.8	79	40	39	12.2	12.3	12.1	67	36	31	10.4	11.1	9.6
15	Sukhbaatar	445	73.3	134	68	66	22.1	22.2	21.9	107	56	51	17.6	18.3	17.0
16	Selenge	946	87.8	248	124	124	23.0	22.8	23.3	139	82	57	12.9	15.0	10.7
17	Tuv	858	91.6	262	144	118	28.0	29.9	25.9	157	99	58	16.8	20.6	12.7
18	Uvs	580	70.7	167	104	63	20.4	25.2	15.5	140	90	50	17.1	21.8	12.3
19	Khovd	633	73.3	190	95	95	22.0	22.0	22.0	158	107	51	18.3	24.8	11.8
20	Khuvsgul	936	71.4	236	121	115	18.0	18.6	17.4	206	117	89	15.7	18.0	13.5
21	Khentii	554	74.1	168	89	79	22.5	23.5	21.4	122	68	54	16.3	18.0	14.6
22	Province average	12889	75.9	3877	2002	1875	22.8	23.6	22.1	2600	1503	1097	15.3	17.7	12.9
23	Ulaanbaatar	9732	69.6	2196	1076	1120	15.7	16.0	15.4	1404	759	645	10.0	11.3	8.9
24	National average	22621	73.0	6073	3078	2995	19.6	20.2	19.0	4004	2262	1742	12.9	14.9	11.0

^{*} Source: National Center for Cancer, 2017 report.

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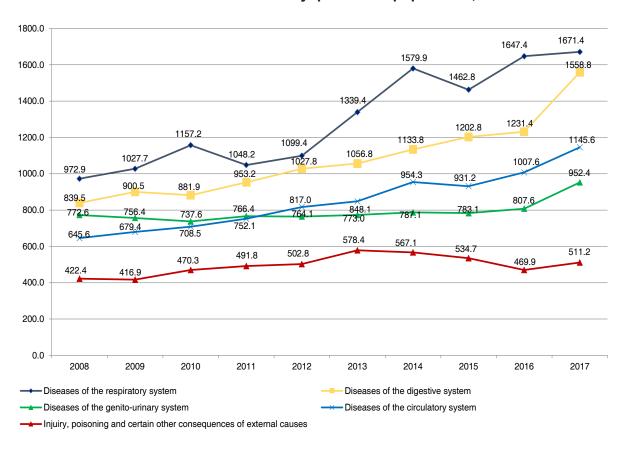
MAIN FIVE CAUSES OF THE OUTPATIENT MORBIDITY, 2017

				10 000 хүн амд		
Nº	Province and city	Diseases of the respiratory system	Diseases of the digestive system	Diseases of the genito-urinary system	Diseases of the circulatory system	Injuiry, poisoning and certain other consequences of external causes
1	Arkhangai	2389.62	1697.38	1475.12	1765.09	210.26
2	Bayan-Ulgii	1003.90	766.01	728.69	780.34	115.36
3	Bayankhongor	2115.60	1730.03	1319.77	1592.35	147.18
4	Bulgan	2188.90	2219.10	1347.50	1705.69	179.91
5	Govi-Altai	1415.35	1281.13	978.15	1001.10	313.49
6	Govisumber	2129.15	678.65	612.24	549.33	604.67
7	Darkhan-Uul	2165.96	1615.27	708.66	1116.75	327.85
8	Dornogovi	3471.27	2565.17	1217.97	1372.57	476.42
9	Dornod	1408.58	2063.72	688.08	660.99	262.72
10	Dundgovi	1423.32	1067.27	680.10	790.44	216.33
11	Zavkhan	1551.67	2146.67	1102.44	1111.81	204.40
12	Orkhon	1821.63	638.19	543.37	592.60	214.01
13	Uvurkhangai	1353.34	1595.59	1008.82	937.30	261.77
14	Umnugovi	2907.37	2029.60	889.67	1233.51	274.08
15	Sukhbaatar	2167.03	1168.97	763.38	843.15	268.80
16	Selenge	1181.83	598.20	706.17	796.68	165.05
17	Tuv	2119.34	1777.74	968.10	1467.96	148.32
18	Uvs	1864.61	1313.20	1005.12	1240.02	206.85
19	Khovd	916.91	1561.54	812.33	1195.10	132.96
20	Khuvsgul	1563.43	1496.97	865.61	1390.37	164.97
21	Khentii	1706.91	1121.59	650.82	1214.62	272.14
22	Province average	1796.08	1478.84	912.22	1134.28	224.77
23	Ulaanbaatar	1520.05	1655.77	1001.21	1159.32	858.87
24	National average	1671.41	1558.75	952.41	1145.59	511.17

OUTPATIENT AND INPATIENT MORBIDITY, 2017

		C	Outpatient mo	orbidity	Ir	npatient morbi	dity
Nº	ICD-10	Incidence	Per 10 000 population	Percentage	Incidence	Per 10 000 population	Percentage
1	Diseases of the respiratory system	517745	1671.41	17.9	133774	431.86	15.7
2	Diseases of the digestive system	482849	1558.75	16.7	103199	333.15	12.1
3	Diseases of the genito-urinary system	295025	952.41	10.2	97990	316.34	11.5
4	Diseases of the circulatory system	354865	1145.59	12.2	127537	411.72	14.9
5	Injuiry, poisoning and certain other consequences of external causes	158342	511.17	5.5	33505	108.16	3.9
6	Certain infectious and parasitic diseases	67432	217.69	2.3	20600	66.50	2.4
7	Diseases of the nervous system	181225	585.04	6.3	65383	211.07	7.7
8	Diseases of the musculoskeletal system and connective tissue	119536	385.89	4.1	40570	130.97	4.8
9	Pregnancy, childbirth and the puerperium	128525	414.91	4.4	122511	395.50	14.3
10	Other	593907	1917.28	20.5	108769	351.13	12.7
11	Total	2899451	9360.1	100.0	853838	2756.40	100.0

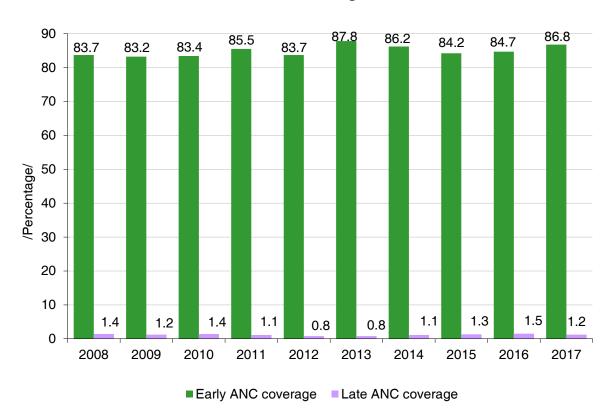
Main five Causes of Morbidity /per 10 000 population/, 2008-2017



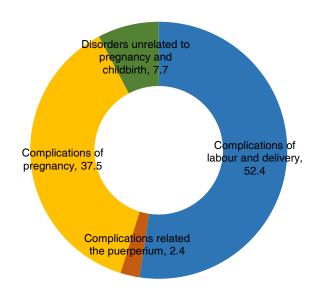
ANTENATAL HEALTH CARE COVERAGE, 2017

		1A	NC coverag	е	O N			S	
Nº	Province and city	Early ANC coverage	4-6 months	Late ANC coverage	Percentage of pregnant women who attented to ANC 6 and more times	Percentage of pregnant women with anemia	Percentage of teenage pregnancy	Percentage of pregnancies above 35 age	
Α	В	1	2	3	4	5	6	7	
1	Arkhangai	90.7	8.6	0.8	88.9	6.8	6.3	15.3	
2	Bayan-Ulgii	81.9	15.8	2.3	64.6	10.6	1.4	15.8	
3	Bayankhongor	81.8	16.9	1.3	71.2	2.9	6.9	13.3	
4	Bulgan	87.0	11.5	1.5	80.4	0.7	4.3	20.4	
5	Govi-Altai	86.9	12.8	0.3	63.5	2.4	4.5	14.9	
6	Govisumber	88.1	10.7	1.2	91.8	0.7	7.4	18.1	
7	Darkhan-Uul	82.4	16.3	1.3	83.7	6.6	5.8	16.1	
8	Dornogovi	86.4	12.2	1.4	80.7	4.9	7.1	18.1	
9	Dornod	90.9	8.6	0.4	86.6	5.2	3.7	19.7	
10	Dundgovi	88.5	10.8	0.6	84.5	0.2	5.8	15.7	
11	Zavkhan	84.0	14.9	1.1	78.0	4.7	3.1	16.2	
12	Orkhon	90.1	9.5	0.4	69.9	5.7	3.1	18.5	
13	Uvurkhangai	88.7	10.4	0.9	93.5	5.8	6.8	14.2	
14	Umnugovi	87.2	11.9	0.9	95.4	1.1	5.0	14.4	
15	Sukhbaatar	85.0	14.7	0.3	94.5	2.8	3.7	19.5	
16	Selenge	82.0	16.6	1.4	72.5	2.3	4.6	18.0	
17	Tuv	86.1	13.1	0.8	62.3	2.4	3.7	17.0	
18	Uvs	93.7	5.6	0.7	76.6	4.1	2.5	18.4	
19	Khovd	88.9	10.2	1.0	45.7	8.0	3.9	14.7	
20	Khuvsgul	84.4	15.0	0.6	95.0	2.9	5.3	15.1	
21	Khentii	89.0	10.5	0.4	77.3	2.3	7.6	17.1	
22	Province average	86.6	12.5	1.0	77.2	4.5	4.7	16.4	
23	Ulaanbaatar	87.1	11.6	1.3	94.3	2.5	4.2	17.3	
24	National average	86.8	12.0	1.2	85.8	3.5	4.5	16.9	

Antenatal Care Coverage /2008-2017/



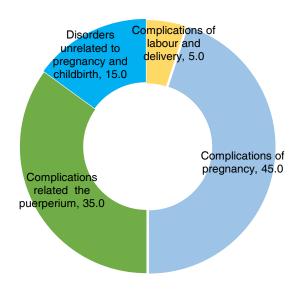
Complications of Pregnancy, Delivery and Puerperium, 2017



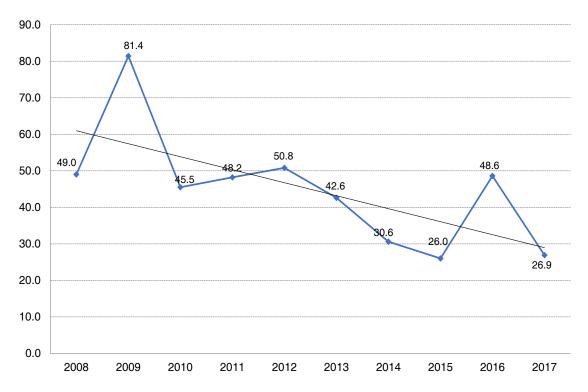
MATERNAL MORTALITY RATE /PER 100 000 LIVE BIRTHS/, 2017



MATERNAL MORTALITY BY CAUSES, 2017



MATERNAL MORTALITY RATE, PER 100 000 LIVE BIRTHS /2008-2017/

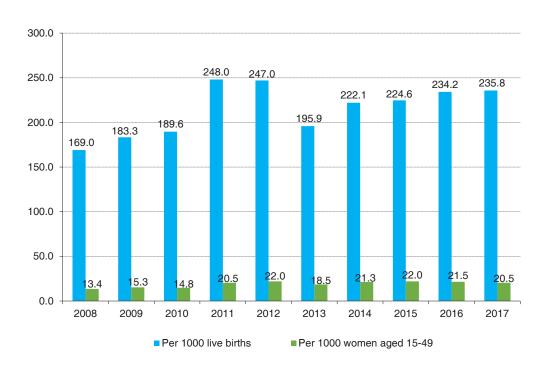


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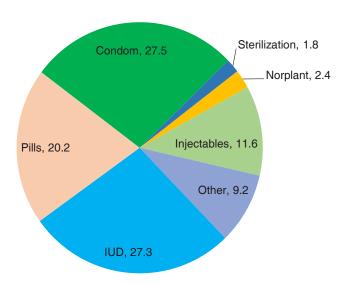
CONTRACEPTIVE PREVALENCE RATE /CPR/, 2017

					Out o	f them		
Nº	Province, city	Percent of women in the RAG using contraceptives	Pills	Injectables	Norplant	Condom	UD	Sterilization
Α	В	1	2	3	4	5	6	7
1	Arkhangai	44.6	20.7	8.9	4.0	20.2	38.6	3.0
2	Bayan-Ulgii	43.3	22.4	18.2	0.7	18.4	37.8	0.4
3	Bayankhongor	57.3	10.3	9.8	1.7	8.0	63.4	4.7
4	Bulgan	34.8	16.1	14.9	2.4	16.5	41.0	2.3
5	Govi-Altai	49.6	17.2	19.4	3.1	9.6	46.7	1.9
6	Govisumber	49.1	45.5	22.5	3.6	9.1	12.7	1.2
7	Darkhan-Uul	61.6	35.9	17.1	1.8	20.3	20.5	0.4
8	Dornogovi	57.7	28.7	11.6	4.0	21.5	22.8	2.2
9	Dornod	63.4	17.5	12.1	2.9	12.1	39.7	3.8
10	Dundgovi	48.7	19.3	16.6	3.1	23.2	32.7	1.8
11	Zavkhan	61.5	20.6	18.0	1.2	20.3	31.0	1.2
12	Orkhon	55.2	19.2	14.0	1.2	36.1	27.6	1.6
13	Uvurkhangai	51.4	22.4	17.6	1.9	13.9	36.2	3.8
14	Umnugovi	68.0	30.6	19.3	3.1	19.7	23.1	3.7
15	Sukhbaatar	55.8	8.5	15.4	1.6	4.3	62.5	7.6
16	Selenge	61.5	21.8	12.7	5.2	32.5	24.6	2.2
17	Tuv	50.0	25.9	14.0	0.8	22.6	36.1	0.1
18	Uvs	35.4	22.8	19.0	4.5	18.0	20.1	2.5
19	Khovd	36.9	22.5	20.7	2.5	18.4	26.9	4.8
20	Khuvsgul	57.5	15.0	15.4	2.0	15.6	41.9	4.9
21	Khentii	29.9	22.7	14.4	1.0	13.5	40.0	3.0
22	Province average	51.6	21.5	15.3	2.4	18.8	35.0	2.8
23	Ulaanbaatar	54.9	18.9	7.8	2.4	36.7	19.4	0.8
24	National average	53.2	20.2	11.6	2.4	27.5	27.3	1.8

Abortion /2008-2017/



Contraceptive Methods, 2017



ABORTION, 2017

		Abort	ion		F	Abortion	by age		Late al	oortion
Nº	Province, city	Per 1 000	Der 4 000	Total	Under 2	0 age	avobe 3	35 age	Aba	
	1 10 miles, only	women aged 15-49	Per 1 000 live births	rotar	Abs number	%	Abs. number	%	Abs number	%
Α	В	1	2	3	4	5	6	7	8	9
1	Arkhangai	9.3	123.0	234	5	2.1	81	34.6	26	13.7
2	Bayan-Ulgii	12.8	120.0	342	2	0.6	134	39.2	1	0.4
3	Bayankhongor	17.3	205.9	412	46	11.2	101	24.5	24	12.0
4	Bulgan	1.6	29.9	25	2	8.0	6	24.0	16	19.2
5	Govi-Altai	2.7	34.4	42	8	19.0	13	31.0	10	8.2
6	Govisumber	8.3	90.9	38	0	0.0	16	42.1	0	0.0
7	Darkhan-Uul	14.7	177.9	402	12	3.0	138	34.3	7	3.1
8	Dornogovi	22.1	304.9	404	40	9.9	88	21.8	9	6.8
9	Dornod	15.6	164.4	318	18	5.7	109	34.3	27	14.0
10	Dundgovi	4.7	64.7	57	15	26.3	12	21.1	4	4.5
11	Zavkhan	2.9	41.4	55	1	1.8	18	32.7	2	1.5
12	Orkhon	22.7	242.7	626	38	6.1	150	24.0	14	5.4
13	Uvurkhangai	6.6	83.6	203	25	12.3	60	29.6	13	5.4
14	Umnugovi	34.5	469.6	611	37	6.1	155	25.4	21	16.1
15	Sukhbaatar	4.7	59.6	76	10	13.2	24	31.6	0	0.0
16	Selenge	0.8	13.4	23	1	4.3	5	21.7	1	0.6
17	Tuv	2.7	51.8	62	6	9.7	19	30.6	18	15.0
18	Uvs	28.6	299.6	610	29	4.8	189	31.0	22	10.8
19	Khovd	3.3	33.9	75	5	6.7	32	42.7	6	2.7
20	Khuvsgul	1.3	15.9	44	19	43.2	12	27.3	26	9.4
21	Khentii	10.8	145.2	210	20	9.5	58	27.6	13	9.0
22	Province average	10.8	135.5	4869	339	7.0	1420	29.2	260	7.2
23	Ulaanbaatar	31.3	329.7	12661	582	4.6	2913	23.0	518	13.5
24	National average	20.5	235.8	17530	921	5.3	4333	24.7	778	10.5

MATERNAL CARE DURING DELIVERY OR CHILDBIRTH (BY PROVINCE), 2017

			Delive	ery by pe	ercent				e		ts Jr
Nº	Province and city	Province and city hospital	Private hospital	Rural general hospital	Soum hospital	Feldsher post	At home	Deliveries by nontrained personnel	Percent of deliveries under 20 age	Percent of deliveries avobe 35 age	Percent of newborn infants weighing at below 2500 gr at birth
Α	В	1	2	3	4	5	6	7	8	9	10
1	Arkhangai	76.9	0.0	0.0	22.9	0.0	0.2	0.1	5.3	12.0	4.6
2	Bayan-Ulgii	80.7	0.0	0.0	18.9	0.0	0.4	0.0	1.0	14.2	5.1
3	Bayankhongor	88.4	0.0	0.0	11.1	0.0	0.5	0.2	7.1	12.3	5.0
4	Bulgan	76.8	0.0	0.0	22.5	0.0	0.6	0.4	6.5	17.5	6.0
5	Govi-Altai	91.0	0.0	0.0	8.8	0.0	0.2	0.0	5.0	13.2	6.1
6	Govisumber	99.3	0.0	0.0	0.5	0.0	0.2	0.2	5.8	15.6	1.9
7	Darkhan-Uul	99.1	0.0	0.0	0.3	0.0	0.6	0.1	5.1	16.4	3.5
8	Dornogovi	77.8	0.0	20.6	1.4	0.0	0.2	0.2	6.1	14.8	3.8
9	Dornod	96.3	0.0	0.0	3.0	0.0	0.7	0.1	6.1	15.4	3.3
10	Dundgovi	89.1	0.0	0.0	10.5	0.0	0.5	0.2	6.3	12.5	4.1
11	Zavkhan	58.4	0.0	24.5	16.9	0.0	0.3	0.2	4.3	15.7	5.4
12	Orkhon	99.7	0.0	0.0	0.1	0.0	0.2	0.2	4.1	16.1	3.0
13	Uvurkhangai	73.0	0.2	11.5	15.2	0.0	0.0	0.0	7.8	12.4	3.8
14	Umnugovi	81.0	0.0	0.0	18.5	0.0	0.5	0.1	6.2	12.2	5.0
15	Sukhbaatar	95.0	0.0	0.0	4.4	0.0	0.6	0.0	6.3	15.9	2.6
16	Selenge	53.1	0.0	35.7	11.0	0.0	0.2	0.0	6.6	15.4	3.0
17	Tuv	74.9	0.0	0.0	24.7	0.0	0.4	0.3	5.1	19.8	4.0
18	Uvs	86.1	0.0	0.0	13.5	0.0	0.5	0.2	2.9	14.7	4.0
19	Khovd	83.6	0.0	7.6	8.6	0.0	0.3	0.1	3.3	14.5	3.9
20	Khuvsgul	77.5	0.0	0.0	22.0	0.0	0.5	0.2	6.6	13.4	3.5
21	Khentii	79.8	0.0	9.9	10.1	0.0	0.3	0.0	7.5	16.6	4.3
22	Province average	82.7	0.0	5.0	11.9	0.0	0.4	0.1	5.3	14.6	4.1
23	Ulaanbaatar	95.1	4.5	0.0	0.0	0.0	0.4	0.2	4.4	17.4	5.1
24	National average	89.1	2.3	2.4	5.8	0.0	0.4	0.2	4.8	16.0	4.6

IMMUNIZATION COVERAGE FOR INFANTS, 2017

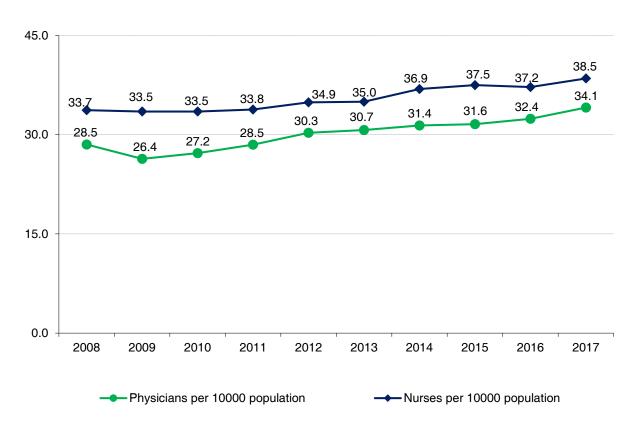
			Covered perce	ntage	
Nº	Province and city	Penta vaccine	POL 3	Hepatitis A	DT
Α	В	1	2	3	4
1	Arkhangai	98.1%	99.4%	99.6%	98.3%
2	Bayan-Ulgii	99.8%	99.8%	99.0%	99.8%
3	Bayankhongor	99.1%	98.0%	98.0%	87.8%
4	Bulgan	99.6%	93.7%	93.9%	96.2%
5	Govi-Altai	99.8%	99.5%	99.5%	99.3%
6	Govisumber	98.4%	99.5%	99.5%	99.1%
7	Darkhan-Uul	99.7%	99.6%	99.4%	98.3%
8	Dornogovi	99.7%	99.7%	99.7%	96.5%
9	Dornod	99.9%	99.8%	99.8%	96.5%
10	Dundgovi	98.6%	99.3%	99.6%	99.8%
11	Zavkhan	99.7%	99.5%	99.5%	100.0%
12	Orkhon	98.8%	98.3%	98.4%	87.9%
13	Uvurkhangai	99.8%	99.9%	99.6%	96.7%
14	Umnugovi	98.9%	99.6%	99.6%	96.5%
15	Sukhbaatar	99.4%	97.8%	98.4%	87.9%
16	Selenge	99.7%	99.4%	99.3%	97.0%
17	Tuv	99.8%	99.5%	99.5%	73.5%
18	Uvs	99.4%	99.4%	99.4%	95.5%
19	Khovd	99.8%	99.7%	99.8%	96.7%
20	Khuvsgul	99.6%	99.8%	99.8%	97.3%
21	Khentii	98.3%	97.3%	97.3%	100.0%
22	Province average	99.4%	99.1%	99.1%	94.7%
23	Ulaanbaatar	99.8%	96.9%	97.4%	92.6%
24	National average	99.6%	98.1%	98.3%	93.9%

HEALTH HUMAN RESOURCE, 2017

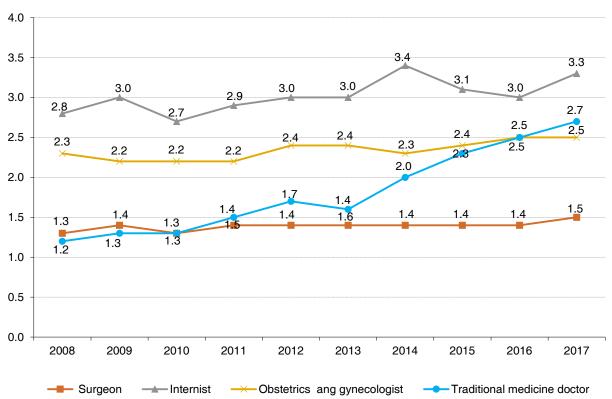
rkers	Female	27	8533	6	29	2414	285	4745	1013	7520	2722	549	4249	6525	16/1	4854	908	10	4239	3783	80	73	269	21	209	51	173	1342	311	64	4013	307	38659	719	344	1379	380	2822	41481
All workers	lstoT	26	10592	13	88	2738	378	6050	1325	8861	3151	647	5063	7853	1957	5896	911	12	5229	4480	96	98	780	02	351	89	397	1779	407	92	4409	_	_	971	495	1760	422	3648	50519
	Other workers	25	7	2	37	483	130			2063	949	172	_		419	1623	220	2	1288	265	0	12	72	7	106	10	164	962	103	24	1137		m	143	87	398	0	628	12406 50519 41481
	Other top deals	24		0	0	112	21	61	43	336	168	_	_		4 0	280	45	0	481	270	ω	0	154	12	82	10	31	185	38	13	179	_		546	342	85	-	974	3415
	Medical Equipment Engineer	23	0	0	0	0	0	0	0	38	16	-	51	49	ກ	40	4	0	25	23	0	0	4	വ	_	_	_	9	-	က	7	_	164	1	0	7	0	œ	172
	Information technology specialist	22	0	0	0	0	0	0	0	49	23	2	54	64	-	38	2	0	59	12	က	2	22	က	က	2	~	9	-	0	7	7	191	3	2	4	0	12	203
	Other midlevel personnels	21	88	0	0	2	0	71	13	101	64	2	32	86 !	28	80	15	0	67	86	0	0	2	0	12	2	0	20	2	0	က	9	513	လ	0	37	4	44	557
	Midlevel pharmacist	20	167	0	_	0	12	134	20	29	21	9	40	38	12	26	က	0	33	9	0	0	က	0	0	0	6	~	109	4	1521	9	1967	_	_	13	0	15	1982
	Technician	19	က	0	0	0	0	7	-	87	62	7	21	175	35	143	2	0	8	233	0	0	0	0	0	~	0	က	0	0	0	ω	592	9	0	15	0	21	613
	Microscopist	18	261	0	0	4	1	208	38	315	101	19	195	210	5	137	18	0	115	98	0	0	2	0	20	5	0	4	0	0	0	2	1083	2	5	38	-	46	1129
	Other feldshers	17	585	0	2	22	22	416	85	272	65	30	177	77	95	38	16	က	92	34	0	0	22	0	17	0	0	52	-	0	0	13	1192	2	-	84	275	365	1557
	Bags feldshers	16	926	4	4	16	7	780	145	12	0	12	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	696	0	0	0	0	0	969
	Midwife	15	371	0	2	13	12	282	29	240	43	33	164	151	86	65	149	0	39	4	0	0	0	0	0	0	0	~	0	0	0	0	922	က	0	0	2	80	963
	Medical professional ar technical education, all other employees	14	2432	4	12	92	29	1893	361	1094	323	112	629	749	760	489	203	က	333	461	0	0	29	0	80	80	O	81	115	4	1524	45	7271	20	7	187	285	499	0222
	attendant	13	09	0	0	2	-	45	12	28	56	-	31	124	17	103	30	0	22	84	0	0	0	0	-	0	0	တ	0	0	0	-	392	_	0	~	0	7	207
	Bakalavr	12	895	2	2	312	33	458	88	1078	389	62	627	1305	780	1025	96	0	650	340	0	0	7	0	7	10	2	105	0	0	0	43	4536	51	2	263	10	326	4862
	molqiQ	Έ	1800	2	26	262	64	935	178	1734	528	109	_		413		81	2	745	478	0	0	7	0	4	#	20	212	0	0	0	-	6	14	2	277	24	317	6683
	Total nurses	10	2755	4	28	606	86	1438	278	2870	943	172	1755	2657	/14	1943	207	2	1420	902	0	0	တ	0	7	21	25	326	0	0	0	93	11294	99	4	541	34	645	44020
	Dentist	6	37	0	0	-	4	9	22	104	42	9	23	43	07	23	0	0	47	896	0	0	7	0	0	0	0	6	7	0	0	23	1163	6	0	19	4	32	1105
	Traditional medical practitioners	æ	160	0	2	09	က	92	19	73	37	တ	27	42	٦ ا	32	7	0	207	153	0	0	-	0	0	0	0	132	0	0	0	25	795	12	_	27	9	46	841
	Human doctors	7	1846	0	∞	924	21	699	194	1921	758	130	1033	1597	427	1170	190	2	1093	905	0	0	51	0	49	10	160	163	4	0	က	54	7998	75	2	386	79	542	8540
	Total physicians	9	2043	0	10	985	58	755	235	2098	840	145	1113	1682	45/	1225	192	2	1347	1951	0	0	24	0	49	10	160	304	16	0	ო	72	9926	96	3	432	68	620	10576
	Bio-medical expert	2	0	0	0	0	0	0	0	7	0	0	7	27	_	26	0	0	20	43	0	23	_	0	9	~	0	7	0	0	0	0	125	56	0	~	0	27	
	Pharmacists	4	25	0	_	0	-	19	4	69	59	7	33	104	1/	84	6	0	28	14	0	0	16	0	0	0	~	က	107	12	1473	က	1891	26	0	8	က	47	106 1938 152
	Statisticians	က	2	0	0	~	0	~	0	26	တ	4	13	22	တ	16	က	0	18	~	0	0	9	0	~	~	~	က	0			_	97	_	0	∞	0	6	
S	Public health specialist	2	131	0	0	86	-	28	4	125	91	7	27	107	1	96	15	0	33	21	71	45	284	34	က	-	-	10	0	0	-	10	889	16	2	23	10	51	940
	Health managers	Ψ.	62	0	0	26	2	က	-	117	72	7	38	92	<u>.</u>	52	11	0	129	186	14	9	45	တ	4	4	4	09	56	တ	88	9	871	28	45	64	0	137	49 1008
	^{Ol}	В	~	2	က	4	ß	9	7	∞	တ	9	= :	15	5	14	15	16	17	18	19	20	21	22	23	24	25	26	27	78	59	30	31	32	33	34	35	36	49
	Health care providers	∢	Total	Feldsher's posts with beds	Physician's post with beds	Family hospitals	Village hospitals	Soum health center	Intersoum hospitals	Total	District hospitals	Rural general hospitals	Province general hospitals	Total 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		Medical Supply Organization	tory	Private pharmacies		All health-care workers	State Medical University, College	Private medical schools, colleges	Other medical / border guards and the prison hospital, defense, law enforcement officials Hospital, Railway Hospital	Other (schools, parks, mines, factories, offices, etc.)	All other sectors of health care workers	
			sc	oinik	цр с	າຣສ	ıry h	smi	ηd		lθν	lsou eco		ary tals	ithə iqso	y L	Maternity	Rail sect	Private h	Private h	Ministry o	Researc	Health D	Centre fo	National	National provincia	Emergen	Resort	Medical	Drug factory	Private p	Other	All health	State Me	Private n	Other mon hospital, Hospital,	Other (sc etc.)	All other	1

	Total	31	18.3	20.2	21.7	19.8	32.8	33.2	27.2	32.9	23.3	30.7	25.3	31.9	22.5	29.5	25.2	22.8	23.3	20.6	26.8	19.0	24.1	24.4	46.0	34.1
	Dentist	30	1.2	1.2	1.3	1.0	2.3	1.7	4 .1	8.	1.3	1.5	1.3	3.0	1.7	2.5	1.5	1.7	0.5	1.5	1.7	1.2	8.0	1.7	6.5	3.9
ı	Traditional medicine docto	29	1.7	1.0	2.7	2.3	4.	1.7	1.6	1.8	0.5	0.7	2.8	1.7	3.6	2.5	0.7	2.0	2.9	1.3	1.7	2.1	1.9	1.9	3.7	2.7
	Ofher	28	0.3	1.0	0.3	1.0	0.7	4.1	9.0	2.2	8.0	0.7	0.3	1.8	0.5	0.3	0.5	8.0	0.0	0.0	9.0	0.5	0.3	0.7	1.3	6.0
	Doctor Isboratory	27	0.5	0.3	0.3	0.3	0.7	1.2	1.0	1.0	0.5	4.0	4.0	1.1	4.0	9.0	0.5	0.5	4.0	4.0	0.5	0.2	8.0	9.0	1.7	7:
	Х-гау diagnostic	26	4.0	0.2	0.2	0.5	0.7	1.2	0.5	1.3	1.1	1.1	9.0	1.5	6.0	0.8	0.8	4.0	4.0	9.0	9.0	9.0	0.5	0.7	2.4	4.
	Pathogenist	25	0.3	0.1	0.1	0.2	4.0	9.0	0.1	0.1	0.3	0.2	0.1	0.2	0.1	0.3	0.2	0.2	0.1	0.1	0.3	0.1	0.1	0.2	4.0	0.3
	ЕІдену	24	0.1	0.1	0.1	0.2	0.2	9.0	0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1
	Facilitation	23	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.2	0.1
	Rehabilitation	22	0.0	0.0	0.1	0.0	4.0	9.0	4.0	0.1	9.0	0.2	0.3	0.5	0.0	0.0	0.3	0.0	0.5	0.1	0.2	0.2	0.0	0.2	0.8	0.5
	Venerologist	21	0.1	0.1	0.1	0.2	0.2	0.0	0.2	0.3	0.3	0.2	0.1	0.1	0.2	0.0	0.2	0.2	0.3	4.0	0.1	0.2	0.3	0.2	0.4	0.3
	Tuberculosis	20	0.3	0.3	0.2	0.3	0.2	9.0	0.5	0.4	9.0	9.0	0.3	0.2	0.2	0.3	0.3	9.0	9.0	0.2	0.2	0.2	4.0	0.3	0.3	0.3
	Infectionist	19	9.0	9.0	9.0	8.0	4.1	1.2	1.7	1.3	1.3	1.1	1.0	9.0	6.0	9.0	1.2	0.7	1.0	9.0	0.5	0.8	1.6	6.0	1.2	7:
	Dermatologist	18	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1
	Plactic surgeon	17	0.2	0.2	0.2	0.2	0.5	9.0	0.3	9.4	9.4	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.1	0.1	0.2	0.3	0.2	9.0	0.4
them	Otorinolaryngologist	16	0.2	0.5	0.2	0.2	4.0	9.0	0.3	6.0	9.4	0.2	0.3	0.5	0.2	0.3	0.3	0.5	0.3	0.2	0.5	0.1	0.5	0.3	0.8	0.5
Out of them	Dphtalmologist	15	0.1	0.2	0.3	0.2	0.5	9.0	0.5	9.0	0.5	0.2	0.1	0.7	0.3	0.5	0.3	0.2	0.2	4.0	0.3	0.2	0.3	0.3	6.0	9.0
	Psychiatrist and selogoroan	4	0.2	0.1	0.2	0.2	0.2	0.0	9.0	0.3	4.0	0.2	0.1	4.0	0.2	0.2	0.3	0.2	0.2	0.1	0.3	0.2	0.3	0.2	0.7	0.5
	teigoloonO	13	0.2	0.1	0.2	0.2	0.2	9.0	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.2	0.2	0.0	0.2	0.1	0.2	0.1	0.0	0.2	0.2	0.2
	Obstetrics and gynecologist	12	1.5	1.7	1.7	1.3	1.9	1.7	1.5	2.7	1.8	1.7	1.5	2.1	1.7	2.0	2.1	1.6	1.5	1.5	2.1	<u></u>	1.6	1.7	3.5	2.5
	1sigolorue/N	7	0.5	9.0	9.0	9.0	0.7	1.2	9.0	6.0	9.0	0.7	1.0	1.3	0.7	9.0	0.5	0.5	0.7	4.0	0.7	0.5	0.7	9.0	9.1	7:
	taigoloisetasanA	10	0.2	0.5	0.7	0.5	0.7	9.0	9.0	6.0	0.4	0.7	8.0	1.2	0.3	1.1	0.8	9.4	0.2	0.5	0.0	0.3	1.1	9.0	4.1	6.0
	Resuscitation	တ	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	9.0	0.0	0.3	0.5	0.1	0.0	0.0	0.3	0.1	0.0	8.0	0.1	0.0	0.1	4.0	0.3
	Traumatologist	œ	0.2	0.3	0.5	0.2	0.5	0.0	0.5	0.7	9.4	0.2	0.3	1.2	4.0	0.5	0.5	0.3	9.0	4.0	0.5	0.2	0.5	9.0	1.2	8.0
	Surgeon	7	1.0	1.5	8.0	0.5	4.	1.2	8.0	1.2	1.0	0.7	9.0	1.2	1.0	4.1	0.8	6.0	0.7	1.0	6.	0.7	7.	1.0	2.2	1.5
	Out: Infants	9	0.1	0.2	0.2	0.2	0.5	9.0	0.3	0.1	0.1	0.2	4.0	8.0	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	4.0	0.3	9.0	9.0
	Pediatric	2	2.3	1.1	2.0	1.0	3.0	1.7	1.6	2.5	1.9	1.7	2.7	5.6	1.8	3.1	2.5	1.9	1.7	1.7	2.7	3.0	2.8	2.2	2.7	2.4
	teimətnl	4	2.7	1.9	1.7	1.7	2.5	1.7	2.7	3.3	2.2	1.3	1.7	2.8	1.7	2.2	2.0	1.7	1.5	1.5	2.5	6 .	1.3	2.0	6.4	3.3
	Basic and specialized	က	11.7	10.7	11.2	8.9	17.2	19.8	14.6	20.8	14.6	12.0	12.7	20.5	12.1	14.8	14.3	11.1	10.8	10.0	14.8	11.0	13.9	13.3	29.3	20.6
	General Practitioners	2	3.7	7.3	6.5	9.7	11.9	6.6	6.9	9.8	6.9	16.5	8.5	6.7	5.1	9.4	8.7	8.0	9.1	7.8	8.5	4.7	7.5	7.5	6.4	7.0
	Human doctor	_	15.4	18.0	17.7	16.6	29.1	29.7	21.5	29.4	21.5	28.5	21.3	27.2	17.2	24.3	23.1	19.1	19.9	17.8	23.3	15.6	21.4	20.8	35.7	27.6
	Province and city	В	Arkhangai	Bayan-Ulgii	Bayankhongor	Bulgan	Govi-Altai	Govisumber	Darkhan-Uul	Dornogovi	Dornod	Dundgovi	Zavkhan	Orkhon	Uvurkhangai	Umnugovi	Sukhbaatar	Selenge	Tuv	Uvs	Khovd	Khuvsgul	Khentii	Province average	Ulaanbaatar	National average
	ol Z	⋖	-	2	<u>ო</u>	4	Ŋ	ဖ		8	6	10	7	12	13	4	15	16	17	— 8	19	20	21	22	23	24

Health Facilities, /2008-2017/



Physicians, by specialities, per 10 000 population /2008-2017/



NURSES, BY SPECIALTIES, PER 10 000 POPULATION, 2017

	lstoT	28	29.0	31.5	34.0	31.5	44.5	39.0	35.6	37.7	35.2	32.4	38.1	41.3	28.6	27.1	35.4	30.6	31.5	31.6	34.6	28.2	31.0	33.1	45.1	38.5
	Dentist	27	9.4	0.2	0.3	0.2	9.0	9.0	2.0	9.0	0.1	0.7	9.0	0.4	0.3	0.3	0.2	9.0	0.3	0.2	0.5	0.3	0.3	0.4	3.4	1.8
	Traditional medicine nurses	26	1.3	0.9	2.0	1.5	1.9	9.0	1.1	9.0	9.0	0.2	2.0	1.2	1.6	0.2	0.2	1.5	1.1	6.0	1.3	0.8	1.2	7.	1.9	1.5
	Offher	25	0.0	3.0	1.9	0.5	3.0	2.9	2.6	3.1	0.1	0.0	2.1	2.1	2.3	4.	3.1	9.0	2.0	0.1	2.0	3.1	0.8	2 .	2.0	1.9
	Elderly	24	0.0	0.1	0.0	0.0	0.2	0.0	0.5	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.2	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1
	Facilitation	23	0.1	0.2	0.5	0.0	0.2	0.0	0.2	0.3	0.0	0.0	0.7	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2
	Rehabilitation	22	0.3	0.5	0.3	0.0	0.7	9.0	1.0	1.9	4.1	0.4	0.7	6.0	0.2	0.3	2.0	0.7	1.3	0.5	0.2	1.4	0.7	8.0	1.9	1.3
	Venerologist	21	0.0	0.1	0.1	0.2	0.2	9.0	0.1	0.3	0.0	0.2	0.3	0.1	0.0	0.2	0.2	0.1	0.1	0.4	0.1	0.0	0.1	0.1	0.2	0.2
	Tuberculosis	20	9.0	0.0	0.2	1.0	1.1	0.0	1.5	9.0	1.1	0.2	0.3	0.0	0.1	0.2	0.2	0.1	0.7	9.0	0.0	0.5	0.1	0.4	0.5	9.0
	Infectionist	19	1.3	0.2	0.3	2.1	3.0	2.9	4.1	1.3	2.7	1.5	0.7	9.0	0.5	9.0	1.2	0.2	1.4	1.0	6.0	0.8	0.3	1.2	1.5	1.3
	Dermatologist	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
	Plactic surgeon	17	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	9.0	0.0	0.1	0.1	0.0	0.0	0.2	0.0	0.1	0.2	0.3	0.3	0.0	0.1	0.5	0.3
	Otorinolaryngologist	16	0.1	0.1	0.1	0.2	0.2	9.0	0.2	0.0	0.4	0.2	0.1	0.1	0.3	0.2	0.2	9.0	0.1	0.2	0.2	0.1	0.7	0.2	0.5	0.3
meu	taigolomlathqO	15	0.1	0.2	0.1	0.2	0.2	0.0	0.3	0.3	8.0	0.2	0.1	0.1	0.3	0.2	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.3
Out of them	Psychiatrist and neurologist	4	0.5	0.2	0.1	9.0	6.0	0.0	1.8	0.0	1.5	0.2	0.3	0.2	0.3	0.3	0.7	0.2	0.1	0.2	8.0	0.5	0.1	0.5	0.8	9.0
Ō	teigoloonO	13	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.1	0.0	9.0	0.1	0.0	0.0	0.0	0.3	0.1	0.2	0.5	0.1	0.1	0.1	0.5	0.3
	Obstetrics and gynecologist	12	0.4	0.1	0.5	2.3	2.1	0.0	1.2	0.3	0.5	0.0	0.3	2.8	0.5	0.0	0.0	4.0	0.3	1.3	4.1	0.5	0.5	8.0	2.2	4.1
	Neurologist	1	9.0	0.2	0.2	1.1	0.7	0.0	0.5	0.0	8.0	6.0	0.0	6.0	0.0	0.3	0.5	0.0	6.0	0.1	0.7	0.7	0.7	9.0	1.1	0.7
	Angestesiolojs at a signolojs at a	10	0.5	9.0	1.7	1.0	1.6	9.0	1.5	2.1	4.0	1.3	1.3	1.9	1.3	1.1	0.8	1.3	0.3	0.7	8.0	1.0	0.7	7:	2.5	1.7
	Resuscitation	6	0.2	0.3	0.0	0.0	6.0	9.0	0.0	0.0	1.0	0.0	1.1	2.3	0.5	0.3	0.2	0.1	0.4	0.5	8.0	8.0	0.5	0.5	1.6	1.0
	Traumatologist	ω	0.0	0.1	7	0.0	0.7 (0	1.1	4	ιÖ	7	4	1.2	ιÖ	က	2	0.1	0.0	0.7	ιū	0.0	0.1	0.4	0.4	,
	Surgeon	7	2.1	1.8	.5	1.6	1.8	.2	1.2	1.8 0.	1.4	1.7 0.	3.2 0.	2.1	1.1	1.5 0.	1.2 0.	1.7	1.2	1.6	2.9 0.	1.4	1.7	1.7	3.2	2.4
	Out: Infants	9	0.6	1.6 1	0.8	0.6	1.4	.3	0.8	1.2	0.6	0.9	1.4	1.3 2	0.8	1.1	0.8	0.9	0.5	0.9	1.7 2	0.8	0.9	1.0	1.1	1.0 2
	Pediatric	2	2.3 0	2.2	2.1 0	2.6 0	1.9	4.7 2.	3.2 0	3.1	1.9	3.3 0	4.2	1.8	1.8 0	3.4	3.5 0	2.3 0	1.6 0	2.8 0	3.5	3.7 0	1.9	2.6	3.7 1	3.1
	Internist	4	1.2	0.0	0.0	2.3	1.9	2.3	1.2 3	0.1	2.9	1.7 3	0.3	0.6	0.6	0.9	0.5	0.1	1.4	0.2	1.2	1.7 3	0.8	1.0	4.8	2.7
	Basic and specialized																									
		က	9.9	9.8	9.9	14.8	3 20.0	5 16.3	1 20.4	7 14.8	4 17.0	8 11.8	3 16.2	4 17.3	10.4	5 11.1	8 14.3	1 8.7	8 11.3	3 10.9	9 17.0	3 16.3	5 10.0	13.5	1 27.8	3 20.0
	General Practitioners	7	17.4	20.6	21.8	15.1	22.3	21.6	12.1	21.7	17.4	19.8	19.3	22.4	16.2	15.5	20.8	20.1	18.8	19.6	15.9	10.8	19.5	18.1	12.1	15.3
	Total nurses	_	27.3	30.4	31.6	29.9	42.2	37.9	32.5	36.5	34.5	31.6	35.5	39.7	26.6	26.6	35.1	28.8	30.1	30.5	32.9	27.0	29.5	31.6	39.8	35.3
	Province and city	В	Arkhangai	Bayan-Ulgii	Bayankhongor	Bulgan	Govi-Altai	Govisumber	Darkhan-Uul	Dornogovi	Dornod	Dundgovi	Zavkhan	Orkhon	Uvurkhangai	Umnugovi	Sukhbaatar	Selenge	Tuv	Uvs	Khovd	Khuvsgul	Khentii	Province average	Ulaanbaatar	National average
	<u>Q</u>	⋖	~	7	က	4	2	9	7	∞	ဝ	10	7	12	13	1	15	16	17	18	19	20	21	22	23	24

AVERAGE LENGTH OF STAY IN HOSPITAL, BY BED SPECIALITIES, 2017

	lstoT	24	6.9	7.0	6.9	7.1	7.4	7.0	7.1	7.1	7.5	7.2	7.8	7.3	7.3	6.7	8.0	7.7	7.4	6.5	9.7	9.9	9.2	7.2	7.1	7.2
	Other	23	0.0	8.4	7.0	0.0	0.0	9.3	0.0	5.5	0.0	0.0	0.0	7.5	0.0	5.9	0.0	9.1	6.5	0.0	9.2	0.0	9.2	5.6	8.1	8.9
	Unspecialized	22	0.0	7.3	8.2	0.0	7.0	9.7	6.5	8.3	10.1	9.2	0.0	8.7	8.8	9.1	0.0	8.7	0.0	0.0	7.3	7.2	7.7	8.1	7.1	7.5
	Venerology	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Traditional medicine	20	9.0	8.0	7.1	7.8	6.9	0.0	8.1	8.8	9.0	7.9	8.7	8.4	8.5	9.4	9.1	8.9	8.7	7.8	8.5	7.6	9.7	8.4	8.0	8.2
	Vgology	19	8.7	7.5	3.2	6.9	11.7	0.0	8.9	0.0	7.9	8.3	9.2	0.0	7.3	0.0	8.0	8.1	6.1	8.2	0.0	0.0	8.0	6.7	7.0	7.2
	Stomatolgy	18	5.3	7.5	5.0	5.3	5.6	0.0	7.0	0.0	0.0	6.4	8.4	0.0	7.1	5.6	6.2	0.9	6.1	6.3	0.9	0.0	0.0	9.9	5.0	5.4
	Dental	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Otolaryngology	16	8.2	7.8	5.5	6.4	7.5	7.9	5.8	0.0	7.0	5.6	5.6	6.4	6.8	6.1	6.5	7.3	7.1	5.5	7.3	0.0	8.4	8.9	0.9	6.3
	Vphtalmology	15	7.7	7.7	9.7	9.9	4.9	0.0	4.9	0.0	8.3	9.9	7.4	2.6	6.3	4.5	7.3	7.8	6.9	5.9	3.9	0.0	8.7	6.9	4.1	4.8
	Reanimation	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
æ	. Игоюду,	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2
By type of bed	Иерhrology	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	9.1
By typ	Traumatology	7	7.1	7.2	7.4	0.0	8.7	6.9	9.8	6.5	7.0	6.4	9.7	8.6	10.3	8.9	6.9	0.0	9.3	6.5	9.7	0.0	7.0	6.7	8.9	9.8
	Psychiatry and narcology	10	10.5	8.6	8.0	8.7	8.9	0.0	10.4	7.7	10.2	8.2	9.3	8.9	10.0	2.2	9.2	9.1	0.0	10.7	10.9	11.0	0.0	9.6	26.9	19.3
	Neurology	6	8.5	6.7	8.3	8.0	8.4	6.7	9.2	9.6	8.9	8.7	9.2	8.8	9.2	9.2	12.9	9.8	8.5	8.3	8.9	8.2	8.8	8.7	7.9	8.3
	Tuberculosis	œ	20.8	42.9	36.4	27.7	65.4	0.0	28.0	34.8	48.3	24.0	31.2	20.3	31.7	33.6	36.9	41.5	32.2	11.8	11.5	30.5	22.6	28.7	28.7	28.7
	Dermatology	7	0.0	8.2	9.7	0.6	8.7	7.7	7.8	0.0	10.0	8.3	9.1	0.0	8.3	9.0	52.2	9.5	8.7	9.4	0.6	6.7	9.8	9.0	8.9	9.0
	Infectious diseases	9	8.0	10.8	7.7	0.6	8.9	9.5	8.7	9.3	8.3	8.1	9.8	9.3	9.2	6.5	8.9	8.3	9.5	8.4	6.3	7.4	9.3	8.3	7.7	8.0
	Peadiatrics	2	6.7	5.9	8.9	9.9	7.7	6.2	0.9	6.5	6.2	9.9	6.7	6.3	6.9	6.1	6.7	7.2	6.5	9.9	7.0	6.2	7.0	9.9	6.2	6.4
	Gyneacology	4	7.3	5.4	5.1	7.1	8.9	5.9	6.5	3.9	5.9	5.5	7.5	8.9	8.8	4.0	6.4	6.5	6.1	6.3	5.9	6.2	8.4	6.1	9.9	6.3
	Spiritetrics	က	3.6	6.4	5.2	6.9	4.2	9.4	4.0	3.9	4.2	4.7	5.4	9.4	3.0	3.7	4.0	4.1	6.4	3.6	3.9	2.7	5.1	4.2	3.6	3.8
	gntgery Surgery	2	2.7	0.9	6.4	6.4	5.4	6.7	4.8	0.9	5.8	6.1	5.3	5.2	6.7	5.9	6.4	0.9	7.1	5.9	6.3	8.4	6.5	5.8	6.1	0.9
	Internal medicine	_	7.5 5	7.4 6	7.3 6	7.1	8.1	8.1	7.3 4	8.0	7.9 5	7.9 6	8.2 5	7.4 5	7.6 6	7.9 5	8	2	7.3 7	7.5 5	9.2 6	7.5 4	7.9 6	7.8 5	9 9.2	7.7
			7	7	7	7	00	00	7	00	7	7	∞	7	7	7	6	∞	7	7	0	7	7	7	7	7
	Province and city	В	Arkhangai	Bayan-Ulgii	Bayankhongor	Bulgan	Govi-Altai	Govisumber	Darkhan-Uul	Dornogovi	Dornod	Dundgovi	Zavkhan	Orkhon	Uvurkhangai	Umnugovi	Sukhbaatar	Selenge	Tuv	Uvs	Khovd	Khuvsgul	Khentii	Province average	Ulaanbaatar	National average
	o Z	∢	-	7	က	4	2	9	7	∞	တ	10	Ξ	12	13	4	15	16	17	18	19	20	21	22	23	24

UTILIZATION OF HOSPITAL BEDS, 2017

			To	tal		Provinc	e, city ge	neral ho	spitals	Rura	al genera	al hospit	als
Nº	Province and city	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
Α	В	1	2	3	4	5	6	7	8	9	10	11	12
1	Arkhangai	268.6	81.4	6.9	38.8	290.6	88.0	7.3	39.8	237.4	71.9	6.4	37.3
2	Bayan-Ulgii	247.1	74.9	7.0	35.4	260.6	79.0	7.3	35.6	221.3	67.1	6.3	35.0
3	Bayankhongor	253.5	76.8	6.9	36.6	281.9	85.4	7.0	40.3	198.7	60.2	6.7	29.6
4	Bulgan	226.0	68.5	7.1	31.9	251.2	76.1	7.5	33.3	192.5	58.3	6.4	29.9
5	Govi-Altai	237.0	71.8	7.4	32.2	275.4	83.5	7.4	37.2	189.7	57.5	7.3	25.9
6	Govisumber	273.0	82.7	7.0	39.0	282.8	85.7	7.1	39.9	232.5	70.5	6.6	35.5
7	Darkhan-Uul	286.4	86.8	7.1	40.6	291.0	88.2	7.0	41.4	237.2	71.9	7.4	31.8
8	Dornogovi	246.4	74.7	7.1	34.7	253.8	76.9	7.2	35.5	232.9	70.6	7.0	33.2
9	Dornod	261.5	79.2	7.5	34.7	263.2	79.8	7.7	34.2	254.6	77.2	6.9	36.9
10	Dundgovi	264.4	80.1	7.2	36.9	316.5	95.9	7.4	42.9	181.3	55.0	6.6	27.3
11	Zavkhan	215.5	65.3	7.8	27.8	232.3	70.4	8.2	28.3	194.5	58.9	7.2	27.2
12	Orkhon	259.7	78.7	7.3	35.6	260.4	78.9	7.3	35.7	216.7	65.7	7.4	29.2
13	Uvurkhangai	213.9	64.8	7.3	29.2	256.5	77.7	7.8	32.8	172.3	52.2	6.7	25.6
14	Umnugovi	138.1	41.9	6.7	20.7	132.0	40.0	6.7	19.6	151.4	45.9	6.5	23.1
15	Sukhbaatar	259.6	78.7	8.0	32.5	310.1	94.0	8.1	38.1	189.0	57.3	7.7	24.7
16	Selenge	247.3	74.9	7.7	32.0	261.0	79.1	8.2	31.9	235.7	71.4	7.3	32.2
17	Tuv	229.6	69.6	7.4	31.0	254.8	77.2	8.1	31.6	204.6	62.0	6.7	30.4
18	Uvs	255.5	77.4	6.5	39.4	259.4	78.6	6.4	40.8	250.0	75.8	6.7	37.2
19	Khovd	290.7	88.1	7.6	38.0	296.3	89.8	7.3	40.5	280.2	84.9	8.4	33.3
20	Khuvsgul	237.9	72.1	6.6	35.9	277.9	84.2	6.8	40.8	175.9	53.3	6.2	28.2
21	Khentii	254.1	77.0	7.6	33.3	241.0	73.0	8.1	29.9	273.6	82.9	7.1	38.4
22	Province average	243.6	73.8	7.2	33.8	261.6	79.3	7.3	35.6	211.2	64.0	6.9	30.6
23	Ulaanbaatar	269.7	81.7	7.1	37.7	269.8	81.7	7.2	37.7	256.0	77.6	6.7	38.0
24	National average	257.0	77.9	7.2	35.8	266.7	80.8	7.2	36.9	212.0	64.2	6.9	30.7

NUMBER OF HOSPITAL BEDS, BY SPECIALITIES, PER 10 000 POPULATION, 2017

	Total	24	25.0	77.1	63.4	60.4	78.7	72.2	73.6	8.89	6.69	65.5	82.1	63.4	72.7	102.5	2.99	65.7	53.8	67.2	8.99	59.7	63.0	68.1	88.1	77.1
	Other	23	0.0	5.5	1.7	0.0	0.0	2.9	0.0	2.8	2.5	0.0	0.0	2.9	0.0	8.5	0.5	2.2	4.1	2.7	3.9	0.0	6.1	4.8	1.3	1.6
	Unspecialized	22	0.0	6.0	6.0	0.0	4.0	1.2	1.5	9.0	1.	6.0	0.0	2.7	0.7	2.3	0.3	0.5	0.0	0.0	9.0	9.0	1.1	8.0	6.0	8.0
	Venerology STIs	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Traditional medicine	20	9.0	1.6	2.7	4.2	3.5	0.0	7.6	5.2	3.2	3.5	3.6	2.5	3.3	8.2	2.0	3.9	2.1	1.0	3.4	2.4	4.3	3.3	5.9	4.5
	Oncology	19	0.2	0.7	0.2	0.3	4.0	0.0	0.2	0.0	0.8	0.2	1.0	0.0	0.3	0.0	0.3	0.5	9.0	0.7	0.0	0.0	9.4	0.3	6.0	9.0
	Stamatology	18	0.2	1.	0.1	0.2	4.0	0.0	0.4	0.0	0.0	0.2	0.1	0.0	4.0	0.2	0.2	0.1	0.2	0.1	0.2	0.0	0.0	0.2	0.3	0.3
	Dental	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Otolaryngology	16	0.2	6 .	0.1	0.2	4.0	2.9	8.	0.1	4.0	4.0	0.1	1.0	4.0	0.5	0.3	9.0	0.3	0.2	8.0	0.0	6.1	9.0	1.0	8.0
	Ophtalmology	15	0.2	1.0	1.3	0.2	4.0	0.0	0.5	0.0	1.3	0.2	0.1	0.1	4.0	0.3	0.3	0.2	0.3	1.5	0.2	0.0	0.5	0.4	1.2	8.0
	Reanimation	14	0.0	8.0	9.0	0.3	0.7	9.0	8.0	1.3	1.0	[-	0.7	1.6	0.3	0.8	0.5	0.0	0.4	0.5	0.5	0.5	0.3	9.0	1.7	1.1
	Urology	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2
By type	Иерhrology	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
By	Traumatology	1	1.1	1.0	1.2	0.0	6 .	2.9	3.4	0.3	1.9	1.5	0.7	3.4	2.1	1.7	1.6	0.0	9.0	1.0	0.7	0.0	1.2	1.3	4.7	2.8
	Psychiatry and narcology	10	9.0	1.5	1.5	9.0	0.4	0.0	2.2	1.8	2.3	0.4	1.5	4.4	1.0	3.4	0.8	6.0	0.4	1.2	4.	0.8	1.9	1.5	3.7	2.5
	Neurology	6	2.9	5.5	5.2	4.7	4.9	4.7	5.2	7.4	4.1	2.2	7.7	4.4	1.5	7.7	5.3	2.7	5.1	2.3	4.7	3.8	3.2	4.4	8.9	5.5
	Tuberculosis	80	0.7	1.0	6.0	1.	0.7	0.0	2.6	1.6	3.8	[-	1.1	2.9	6.0	1.9	2.0	2.9	1.3	1.3	6.0	0.8	1.3	1.5	1.9	1.7
	Dermatology	7	0.0	1.0	1.2	0.8	1.	2.3	2.6	0.0	1.3	0.7	1.1	0.0	0.9	4.1	1.3	9.0	1.1	1.2	1.5	1.	1.1	1.0	1.9	1.4
	Infectious	9	3.4	2.0	3.5	4.5	7.4	4.7	2.2	3.9	3.9	8.4	5.5	3.9	5.0	4.0	4.1	3.9	5.1	3.9	3.8	3.6	4.1	4.0	2.6	3.4
	Peadiatrics	2	9.2	8.9	10.9	9.3	12.1	12.2	10.5	11.0	9.0	12.8	12.5	5.8	13.9	16.2	10.7	4.11	9.3	11.0	10.9	4.11	11.2	10.8	9.0	10.0
	Супеасоюду	4	3.0	3.1	3.6	3.2	3.9	5.8	3.8	3.1	2.5	1.5	2.5	1.7	5.5	6.2	3.8	8.4	2.2	3.0	4.1	2.3	2.5	3.4	4.3	3.8
	Obstetric	3	6.9	7.8	6.4	5.5	7.5	4.7	4.0	5.3	7.9	7.8	8.3	7.8	6.4	9.1	5.1	5.6	5.9	7.7	6.1	5.9	6.7	9.9	5.1	5.9
	Surgery	2	3.1	4.6	2.2	4.2	0.9	5.8	3.7	5.9	2.8	2.4	4.3	2.8	8.4	5.9	2.3	3.1	2.0	3.3	4 L.	1.4	5.7	3.8	7.2	5.3
	Internal medicine	_	22.6	27.6	19.2	20.9	27.2	21.6	20.8	18.5	20.1	23.7	31.2	15.5	24.9	24.3	25.2	22.1	15.3	24.5	19.0	22.5	13.6	21.8	26.3	23.8
	Province and city	В	Arkhangai	Bayan-Ulgii	Bayankhongor	Bulgan	Govi-Altai	Govisumber	Darkhan-Uul	Dornogovi	Dornod	Dundgovi	Zavkhan	Orkhon	Uvurkhangai	Umnugovi	Sukhbaatar	Selenge	Tuv	Uvs	Khovd	Khuvsgul	Khentii	Province average	Ulaanbaatar	National average
	o Z	∢	~	7	က	4	2	9	7	8	ဝ	10	7	12	13	14	15	16	17	18	19	20	21	22	23	24

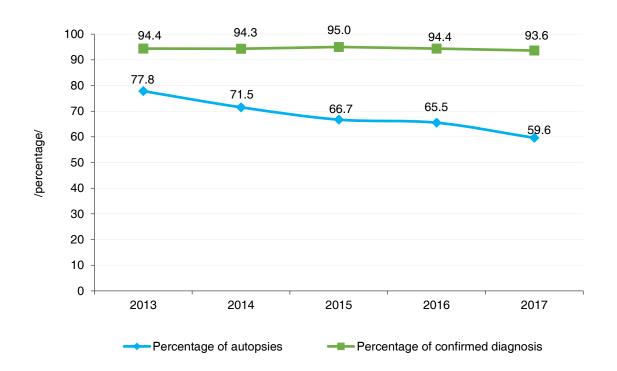
Health indicators, 2017 173

lstoT	28	89	62	97	55	59	22	124	92	26	46	20	139	111	90	48	92	92	29	73	129	83	1667	2338	4005
Other medical / border guards and the prison hospital, defense, law enforcement officials Hospital, Railway Hospital	27	0	_	0	0	_	0	0	2	1	1	0	1	3	က	2	2	0	2	က	2	1	31	14	45
Private pharmacies	56	4	22	36	56	13	ဝ	53	19	14	10	20	26	49	38	10	34	17	22	21	39	25	574	703	1277
Drug factory	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	46
Medical Supply Organization	24	4	က	2	7	4	-	0	4	7	7	4	∞	2	4	7	7	0	2	2	9	7	99	333	399
Resort	23	က	7	7	0	0	0	က	က	0	0	4	_	2	0	0	4	17	0	0	0	2	49	65	411
Private medical schools, colleges	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
State Medical University, College	21	0	0	0	0	-	0	_	-	0	0	0	0	0	0	0	0	0	0	0	0	0	ო	-	4
Emergency center and the districts in the industry	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
National Center for Blood Transfusion Research, provincial blood centers in the district	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	~
National Center for Zoonotic diseases centers	18	_	_	_	0	_	0	0	0	0	_	_	0	_	_	0	1	0	_	-	_	7	5	7	4
Centre for Health Development	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	_
Health department	16	_	_	_	~	_	_	_	_	1	7	_	_	7	_	_	1	_	-	-	~	1	77	_	22
Research institutions	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	~
Ministry of health	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	~
Private hospitals for outpatients	13	7	∞	19	က	12	9	45	18	17	12	0	20	21	18	4	14	12	10	13	35	21	364	862	1226
Private hospitals with beds	12	7	2	7	4	က	0	12	2	4	2	က	12	9	9	က	9	_	က	9	7	0	106	134	240
Rail sector hospitals	7	0	0	0	0	0	_	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7	0	7
Maternity hospitals	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	က
Specialized Centers and Hospitals	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	<u>£</u>
Regional Treatment and Diagnostic conters	∞	0	0	0	0	0	0	0	0	7	0	0	_	7	~	0	0	0	0	~	0	0	2	0	2
Province general hospitals	7	~	~	~	~	~	~	~	~	0	~	~	0	0	0	~	~	~	~	0	~	_	16	0	16
Rural general hospitals	9	0	0	0	0	0	0	0	~	0	0	_	0	7	0	0	7	0	0	-	0	1	9	0	9
District hospitals	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
Intersoum hospitals	4	7	က	က	7	က	0	0	~	3	2	က	0	7	က	~	7	0	က	~	2	2	39	0	39
Soum health center	က	17	ဝ	16	13	14	2	က	12	10	13	19	~	16	11	7	14	26	15	4	20	17	273	0	273
Village hospitals	7	0	7	~	-	7	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	2	4	2	19
Family hospitals	_	2	4	2	7	က	_	2	2	က	2	4	∞	4	4	က	7	_	4	9	D.	4	85	133	218
ol Z	В	_	7	က	4	2	9	7	∞	6	10	Ξ	12	13	4	15	16	17	18	19	20	21	22	23	24
Province/city	∢	Arkhangai	Bayan-Ulgii	Bayankhongor	Bulgan	Govi-Altai	Govisumber	Darkhan-Uul	Dornogovi	Dornod	Dundgovi	Zavkhan	Orkhon	Uvurkhangai	Umnugovi	Sukhbaatar	Selenge	Tuv	Uvs	Khovd	Khuvsgul	Khentii	Province average	Ulaanbaatar	National average

일	Province and city	Number of surgery	Percentage of complications	Percentage of deaths
⋖	В	7	2	3
_	Arkhangai	1214	0.0	0.0
2	Bayan-Ulgii	2388	0.2	0.0
က	Bayankhongor	2146	0.0	0.0
4	Bulgan	551	0.0	9.0
2	Govi-Altai	1787	0.2	0.0
9	Govisumber	402	0.5	0.0
7	Darkhan-Uul	3114	0.0	0.0
∞	Dornogovi	1617	0.0	0.0
6	Dornod	1768	0.2	0.1
10	Dundgovi	868	0.1	0.1
7	Zavkhan	1026	0.1	0.0
12	Orkhon	2880	0.4	0.1
13	Uvurkhangai	2458	0.3	0.2
14	Umnugovi	1901	0.1	0.1
15	Sukhbaatar	867	0.0	0:0
16	Selenge	2323	0.0	0.0
17	Tuv	1065	0.0	0.0
18	Uvs	2103	0.1	0.0
19	Khovd	1824	0.0	0.0
20	Khuvsgul	2224	0.1	0.2
21	Khentii	1320	0.3	0.2
22	Province average	35876	0.1	0.1
23	Ulaanbaatar	171648	0.1	0.1
24	National average	207524	0.1	0.1

<u>а</u>	PATHOLOGIC AN	ANATOMY	/ DIFFERENCE	Z	DIAGNOSIS,	, 2017
<u>9</u>	Province and city	No.of deaths	The number of sufopsies	Percentage of sufopsies	No.of difference in main diagnosis	Percentage of difference in main disgnosis
⋖	В	_	2	3	4	2
~	Arkhangai	25	17	80.0%	-	2.9%
2	Bayan-Ulgii	72	1	1.4%	0	%0.0
3	Bayankhongor	09	42	75.0%	2	4.8%
4	Bulgan	20	10	%0:09	0	%0:0
2	Govi-Altai	34	23	76.5%	2	8.7%
9	Govisumber	11	5	%6:06	0	%0.0
7	Darkhan-Uul	97	52	64.9%	4	7.7%
_∞	Dornogovi	39	29	89.7%	0	%0:0
6	Dornod	88	56	%8:69	7	1.8%
10	Dundgovi	22	9	31.8%	7	16.7%
7	Zavkhan	34	8	23.5%	_	12.5%
12	Orkhon	96	58	%2'.29	4	%6:9
73	Uvurkhangai	62	36	71.0%	င	8.3%
4	Umnugovi	62	31	64.5%	3	9.7%
15	Sukhbaatar	35	26	%0.08	2	7.7%
16	Selenge	16	80	62.5%	_	12.5%
17	Tuv	38	23	60.5%	5	21.7%
8	Uvs	32	27	87.5%	4	14.8%
19	Khovd	54	23	51.9%	3	13.0%
20	Khuvsgul	106	69	77.4%	10	14.5%
21	Khentii	32	11	20.0%	~	9.1%
22	Province average	1035	561	62.8%	48	8.6%
23	Ulaanbaatar	2454	1382	58.3%	92	2.5%
24	National average	3489	1943	%9.69	124	6.4%

Pathologic Anatomy, Confirmed Diagnosis Percentage, /2013-2017/



Indicators of Surgery Operations, / 2013-2017/



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	Diseases of the circulatory system	23	399.2	458.3	427.1	394.4	362.7	341.4	522.9	276.0	358.7	383.3	352.6	387.3	313.9	269.6	301.4	364.1	297.8	474.3	430.0	411.5	257.0	377.5	453.3	411.7
\$	Diseases of the ear and mastoid process	22	8.8	18.1	2.0	11.7	10.3	29.1	40.3	3.9	12.7	8.3	5.5	14.9	10.1	3.4	9.6	27.0	4.3	8.9	23.5	8.8	31.9	14.0	18.0	15.8
	Diseases of the eye and adnexa	21	7.7	17.9	58.8	5.6	21.7	1.2	12.8	7.3	53.5	13.1	4.	4.3	9.7	7.9	10.9	3.5	4.3	31.3	17.5	0.2	14.2	14.4	46.1	28.7
əsı	Diseases of the nervous system and ser	20	151.4	267.8	169.8	194.2	236.2	120.6	165.2	358.9	139.0	143.0	320.1	114.5	98.4	177.4	209.0	128.7	132.3	223.3	187.6	169.1	205.6	182.5	245.8	211.1
	Mental and behavioural disorders	19	22.8	35.3	10.3	14.5	30.1	4.7	85.7	13.4	71.2	11.5	15.8	93.1	27.0	41.8	58.5	32.5	20.2	30.5	53.2	33.6	25.1	37.5	66.7	50.7
Out of them	sufillem eafeatet diabetes mellitus	18	13.7	13.8	10.0	15.1	24.4	18.1	71.3	18.7	23.1	18.5	12.7	32.2	8.7	15.9	15.7	28.5	17.1	12.7	15.1	11.3	6.5	19.7	43.9	30.6
	Endocrine, nutritional and metabolic diseases	17	40.0	51.9	31.6	48.7	40.0	27.4	145.2	28.0	6.09	30.3	22.9	41.8	27.1	35.6	33.3	38.2	25.3	20.6	30.7	38.2	22.5	41.3	71.9	55.2
	Diseases of the blood and blood forming organs and certain disorders involving the mechanism	16	7.9	25.4	9.4	6.2	17.9	5.8	6.9	7.4	8.9	10.7	9.0	7.3	7.5	7.3	12.2	6.2	4.7	7.7	9.8	11.1	5.9	9.4	14.0	11.5
Ì	Malignant neoplasm of breast	15	0.4	1.9	0.2	9.0	1.2	1.2	1.4	1.0	9.0	1.5	0.3	8.0	0.2	0.5	1.8	0.7	0.2	2.2	0.7	1.1	8.0	6.0	12.3	0.9
	Malignant neoplasm of cervix uteri	4	0.5	9.4	2.3	5.6	2.1	2.3	3.2	0.1	3.1	0.7	9.0	9.4	1.0	0.3	0.5	8.0	1.3	1.0	1.0	9.1	1.6	1.3	5.1	3.0
them	Malignant neoplasm of lung	13	2.0	1.7	3.2	1.9	3.7	4.1	2.4	2.2	4.1	2.2	2.8	9.1	2.5	1.5	3.5	9.0	3.7	2.1	2.2	1.1	2.5	2.2	2.2	3.8
Out of tl	Malignant neoplasm of stomach	12	3.3	7.2	9.9	6.7	4.9	5.2	2.2	3.4	4.7	1.3	3.9	4.0	4.4	2.0	2.1	3.2	2.2	12.3	8.9	3.7	2.4	4.8	16.1	9.9
	Malignant neoplasm of oesophagus	7	1.0	6.2	2.4	1.3	1.4	0.0	0.5	1.2	0.3	0.2	[-	1.3	2.9	9.0	1.3	8.0	0.5	4.4	2.5	1.4	0.5	1.7	5.6	2.1
	Malignant neoplasm of liver	10	9.8	6.6	12.3	11.2	19.8	16.3	7.8	11.0	16.8	8.1	12.2	12.0	12.9	8.2	16.0	8.4	10.7	14.6	14.6	8.4	15.1	11.7	23.5	17.1
	Neoplasms	တ	25.7	26.0	43.5	33.4	53.3	46.0	35.0	30.3	43.4	19.8	37.2	35.3	50.9	21.7	39.4	24.5	31.8	51.6	51.5	27.4	34.6	37.6	129.5	79.1
	Trichomoniasis	œ	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
	Gonococcal infection	7	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
lem	Congenital syphilis	9	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.1
Out of them	Brucellosis	2	18.9	2.3	9.9	8.1	31.9	16.9	14.7	12.2	45.3	6.7	36.7	28.6	11.9	5.4	48.9	5.5	10.8	23.2	3.2	14.6	51.7	18.3	4.5	12.1
	Viral hepatitis	4	4.1	3.3	3.9	3.6	3.5	12.8	13.3	2.7	3.3	2.2	12.2	7.2	7.1	4.2	3.0	1.0	17.7	4.5	4.5	2.7	5.9	2.7	3.3	4.6
	sisoluɔnəduT	က	11.1	5.0	7.2	8.0	2.8	15.1	27.6	10.2	18.1	8.5	3.8	11.1	7.3	2.2	15.5	18.8	19.2	23.3	13.6	7.8	20.5	12.4	15.4	13.8
	Certain infectious and parasitic diseases	2	67.1	21.5	40.4	37.3	100.6	107.8	92.2	38.1	92.8	30.0	82.0	93.1	48.2	27.5	86.9	41.0	60.5	72.3	38.8	53.8	0.66	61.5	72.6	66.5
	Total	Ψ-	2128.3	2724.3	2308.3	1919.0	2517.4	2826.4	2976.8	2381.9	2416.5	2403.5	2279.4	2248.2	2111.6	2105.9	2168.3	2105.7	1663.9	2635.7	2647.7	2139.7	2085.5	2302.3	3307.7	2756.4
	Province and city	В	Arkhangai	Bayan-Ulgii	Bayankhongor	Bulgan	Govi-Altai	Govisumber	Darkhan-Uul	Dornogovi	Dornod	Dundgovi	Zavkhan	Orkhon	Uvurkhangai	Umnugovi	Sukhbaatar	Selenge	Tuv	Uvs	Khovd	Khuvsgul	Khentii	Province average	Ulaanbaatar	National average
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	Cerebrovascular d	Diseases of the respiratory s	pulluenza	Pneumonis	Acute upper respiratory intections Asthma	Chronic obstructive pulmonary disease	Diseases of the digestive system	Gastric ulcer	Chronic hepatitis, elsewhere classified	Alcoholic liver disease	Diseases of the skin and subcutaneous tis	and connective tissue	Diseases of the genito-urinary syste	Acute and chronic pyelonephritis	Pregnancy, childbirth and the puerperium	Certain conditions originating in the perinatal period	Conginatal malformations, deforma and chromosomal abnormalities	Symptoms, signs and abnormal clini and laboratory findins, not elsewhere classified	Injuiry, poisoning and certain other consequences of external causes
24 25 26	27	28	29	30 31	32	33	34	35	36	37	38 3	၈	40 41	1 42	43	44	45	46	47
31.8 180.9 105.8	3 10.3	268.5	2.3	155.4 5.7	.7 6.0	18.1	236.3	8.6	13.5	0.0	37.8 53.	ω	401.8 1.8	.8 306.2	2 320.4	11.3	3.2	0.0	64.6
8.7 278.2 49.2	13.7	394.4	36.3	145.6 0.	.7 7.5	5 51.7	351.1	5.5	4.7	3.0	48.2 142.	2.4 343.	5	.4 231.6	3 428.4	3.3	8.6	0.0	51.2
32.8 176.0 75.6	9.4	338.6	5.8	179.7 11	11.6 22.7	7 16.7	236.7	10.3	16.3	0.5	66.3 102.	2.6 322.	9 2	.1 222.	9 368.2	19.4	8.2	0.0	49.7
26.0 114.3 129.4	4 10.6	312.9	2.6	175.0 5.	.4 8.3	3 27.6	170.5	4.9	11.0	0.3 5	52.6 68.	3.8 297.	7.8 1.1	.1 200.4	4 216.9	9.4	2.3	0.0	44.8
25.2 102.7 129.5	5 8.6	244.6	18.2	65.5 11.	6 14.	0 31.9	411.3	12.8	34.3	0.2	116.9 103.	3.2 320.	5	.9 190.1	1 317.0	34.0	9.6	0.7	86.7
32.6 67.6 143.3	3 9.9	830.7	16.3 5	550.5	0. 7.6	3 46.6	307.6	9.3	0.0	0.0	110.7 122.	2.3 278.	4 0	.6 201.6	.6 400.8	30.3	1.7	0.0	0.09
23.1 235.1 101.5	5 19.8	464.1	4.4	249.6 7.	.5 15.	3 27.6	302.8	17.2	3.7	0.3	113.4 157	7.8 350.	0.7 1.6	209	.2 330.7	14.9	8.4	0.0	131.5
24.3 60.1 101.2	6.1	445.9	3.1	297.9 0.	.4 9.6	3 45.1	258.2	6.5	43.9	0.1	37.4 229.	9.5 179.	2	.8 108.6	3 349.3	18.5	6.5	0.0	94.2
28.1 120.7 134.8	9 6.1	333.9	5.6	139.6 2.	.4 13.	6 30.9	279.5	7.8	18.2	0.1	92.2 149.	ω	261.6 0.	.5 174.8	356.4	2.8	4.5	0.0	101.7
27.6 128.6 113.4	1 5.0	505.3	33.7	335.4 8.	.3	.5 25.7	292.9	5.0	33.1	0.4 5	53.5 166.	6.7 311.	0	9 227.4	4 337.5	16.8	7.0	0.0	62.5
6.2 130.0 126.1	1 16.5	270.0	8.5	99.8	.5 9.4	1 22.5	5 247.1	9.9	14.3	0.0	73.9 13	138.1 332.	2.5 1.8	8 269.2	2 283.0	25.0	3.2	0.0	60.2
13.3 150.1 137.9	9.6	291.8	2.7	81.5 2.	.2 7.0	37.9	251.0	9.9	20.8	0.4	25.0 142.	2.3 263.	2	.2 217.2	2 320.0	43.6	7.3	0.0	112.3
29.3 137.8 69.1	6.6	391.1	3.9	214.6 2.	.4 7.0) 27.8	240.9	7.5	16.1	0.3	66.2 59.	9.5 375.	- 8	.4 253.3	.3 268.8	18.7	4.1	0.2	94.3
24.7 94.8 83.8	6.4	362.1	10.1	219.0 3.	.2 12.	5 24.1	239.0	4.2	19.3	9.0	65.6 11	117.1 188.	2	8 113.8	3 438.5	9.6	3.2	0.0	90.5
17.1 101.0 66.7	7.3	368.0	3.6	234.4 6.	14.	0 27.2	210.0	5.1	27.5	0.3 7	75.2 118.	8.7 209.	6 2.	.3 142.6	305.1	4.4	8.7	8.0	110.7
21.8 143.6 112.7	7.4	447.4	9.7	243.8 4.	.0 16.	9 28.6	184.7	6.3	7.1	0.3	44.7 75.8	2	381.4 1.9	9 284.8	3 254.6	17.1	2.2	0.0	32.3
16.8 81.6 85.1	9.6	348.0	15.2	212.7 3.	.6 10.7	7 21.0	131.8	6.5	8.4	0.0	47.9 67	7.9 234.	4.5 0.7	7 183.0	204.8	6.9	3.3	0.3	37.2
67.2 151.0 162.8	3 10.2	387.1	1.0	272.5 3.	.0 14.	6 20.2	278.8	4.5	26.2	0.0	72.0 68.	3.9 365.	0	.9 290.0	444.4	15.0	7.4	0.2	76.1
35.4 139.1 127.5	5 13.4	482.1	14.0	317.5 2.	.5 14	.2 22.4	296.3	11.1	4.1	0.5	90.8 198.	8.4 299.	9 9	.4 213.7	7 346.5	9.6	6.1	0.0	75.5
22.1 158.4 174.1	12.4	328.8	1.8	230.5	8.4	14.4	255.2	6.1	37.6	0.1	39.8 52.	2.0 302.	2.6 0.9	245.	5 315.0	19.5	4.2	0.0	68.9
21.8 89.2 69.1	9.8	412.8	18.2	137.7 7.	7.0 12.8	8 48.9	224.6	7.6	11.0	0.4	60.8 125.	5.8 199.	9.7 0.8	8 122.6	5 274.4	8.2	0.9	0.0	77.4
Province average 25.1 144.2 108.9	9 10.4	374.3	9.4	203.3 4.	4.4 11.0	.6 28.3	253.5	7.8	17.3	0.4	62.8 112.	2.3 303.	3.7 2.4	216	9 323.2	15.8	5.4	0.1	75.6
15.4 190.3 100.2	2 15.5	501.8	1.2	223.0 5.	.01	8 50.6	429.9	16.4	51.9	2.2	87.2 153.	9	331.6 8.	.3 178.5	.5 483.2	34.2	19.9	9.0	147.7
24 National average 20.7 165.0 105.0	0 12.7	431.9	5.7	212.2 4.	4.9 11.2	2 38.4	333.2	11.7	32.9	1.2	73.8 13	131.0 31	316.3 5.1	199.6	6 395.5	24.1	11.9	0.3	108.2

OUTPATIENT MORBIDITY (PER 10 000 POPULATION), 2017

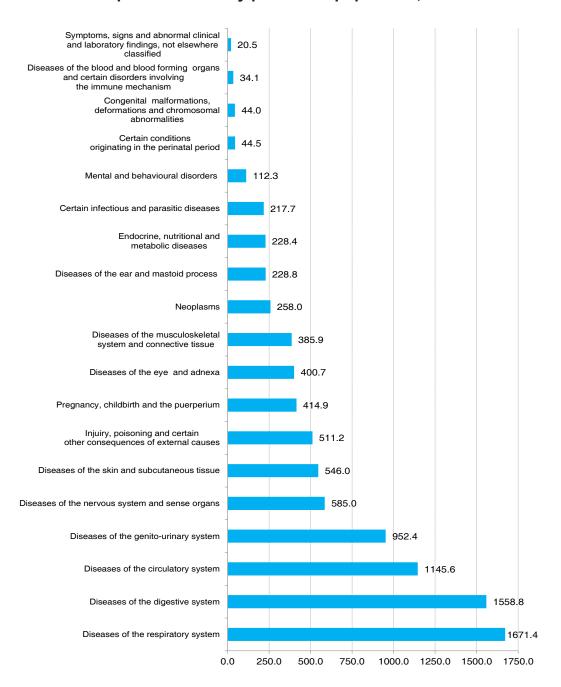
	Cerebrovascular diseases	27	12.4	15.2	13.9	12.2	11.2	1.1	23.7	7.9	9.7	6.5	22.8	11.0	12.8	6.5	7.7	9.0	12.8	12.8	15.3	18.7	13.6	13.2	18.7	15.7
mer	lschaemic heart diseases	56	392.1	66.3	205.1	405.9	322.3	171.8	192.5	333.5	217.3	206.5	321.5	181.1	143.9	273.8	124.8	188.2	263.8	345.9	280.5	479.3	223.8	256.9	264.7	260.5
Out of them	Hypertensive diseases	25	1049.9	531.2	845.1	926.5	425.3	178.8	635.2	694.4	276.3	342.1	584.8	252.8	. 1. 204	706.2	523.4	430.3	797.5	563.8	544.5	686.4	802.1	603.4	516.7	564.3
	Acute rheumatic fever and chronic rheumatic heart diseases	24	135.0 10	13.7 5	137.1 8	95.8	82.0 4	64.7	9 0.09	105.9 6	60.8	74.2 3	38.1 5	21.3 2	92.1 5	115.4 7	33.9 5	44.7 4	113.0 7	154.4 5	124.6 5	94.0 6	44.5	81.5 6	55.3	69.7 5
	Diseases of the circulatory system		1765.1 1:	က	4	1705.7	1001.1	က	1116.7 6	1372.6 10	661.0 6	790.4 7	1111.8 3	9	937.3	1233.5 1	_	796.7	1468.0 1	1240.0 1	1195.1	1390.4	1214.6 4	1134.3 8	3	1145.6
	Diseases of the ear and mastoid process		220.0 170	7.2 780.	3.2 1592.	က	_	.1 549.	281.6 117	_	_	7	6	7.0 592.	ω	227.1 12:	.1 843.	တ	0	9	_	0	244.6 12	198.4 11:	5.6 1159.	_
			2	.0 127.	.5 353.	.0 284.	.7 142.	.2 96.1	2	.3 376.	3 154.0	3.3 103.	.5 128.	.2 197	.5 193.		0.0	7 184.	.3 149.	.7 141.	.6 253.	.8 153.	-		.1 265.	.7 228.8
	Diseases of the eye and adnexa	21	.4 190.	.4 127.0	3 667	2 521.	.8 180.7	5 121.2	6 502.	.4 672.	6 372.	7 188.	.2 511.5	2 221.	.1 260.	.5 709.3	7 180.0	2 102.7	.9 470.	1 390.7	.0 216.	.0 397.	8 156.8	9 342.7	.3 471.1	0 400.7
sued	Diseases of the nervous system and sense or	20	537	534	674.	. 866.	596	183.	318.6	1136.4	.6 232.6	282.	754	7 206.2	564.1	750	1 517.7	229.	623.	587.1	490.0	502.0	3 505.8	523.9	.2 659.	3 585.0
	Mental and behavioural disorders	19	109.7	46.1	71.6	25.7	50.3	18.1	95.1	87.1	187	26.3	71.1	104.	99.2	110.7	153.	64.9	42.9	70.9	67.4	83.2	118.8	84.4	146	112.3
Out of them	Insulin-dependent diabetes mellitus	18	80.1	16.8	34.7	124.2	54.8	29.7	93.6	107.1	65.4	29.5	34.1	38.9	62.4	72.9	35.1	97.8	56.0	24.4	68.3	20.2	21.9	56.3	154.8	100.8
S	Endocrine, nutritional and metabolic disease	17	305.7	82.3	141.4	212.2	139.3	46.6	203.1	178.0	132.4	65.3	89.7	75.9	149.3	174.5	82.9	129.4	107.4	66.3	166.8	85.9	67.5	132.3	345.0	228.4
	Diseases of blood and blood formingorgans and certain disorders involving the immune mechanisms	16	63.6	68.2	23.2	18.8	30.7	8.7	40.7	39.2	23.1	13.7	24.5	34.0	26.7	33.6	27.0	12.3	18.3	32.7	17.7	41.6	18.0	31.3	37.5	34.1
	Malignant neoplasm of breast	15	2.2	3.4	0.2	1.3	4.	2.9	2.0	1.2	0.8	1.5	0.3	1.2	0.4	0.8	2.0	1.0	0.4	2.4	6.0	1.7	1.6	1.4	49.5	23.1
	Malignant neoplasm of cervix uteri		2.1	1.0	2.3	3.2	3.0	7 2.3	4.2	9.0	3.2	1.3	0.7	1.5	1.7	0.3	1.0	2.1	2.1	1.3	2.0	2.4	2.1	2.0	9 30.5	3 14.9
Out of them	Malignant neoplasm of lung	13	9 4.2	.5 2.1	3.4	.0 3.7	2 5.4	4 11.7	5 3.7	6 4.6	1.7	6 3.0	3 3.2	4 2.8	6 4.1	8 2.3	1.4	5 1.8	2 5.7	.7 2.9	.2 3.0	8 2.0	0 4.7	4 3.4	8 20.	.3 11.3
Out	Malignant neoplasm of oesophagus Malignant neoplasm of stomach		.4 7.9	10.9 10.	4.	.9 11.0	89	0.0	.2	.2	7.	2.	.3 4.3	2. 7.4	.7 6.6	0.6 2.	.5 4.1	.5	1.1 4.	.0 15.	.5 12.	.1 7.8	.3 4.0	2.8 7.4	9.6	7.7 29.3
	Malignant neoplasm of liver		21.0 2.	က	5.8	3.7 1	9.8	0	1 0.5	3.4	3.0 0.5	5.7 0.	9	17.7 2.	21.3 3.	11.8	2.7 2.	3.0	17.4	21.2 6.	2.2	17.4 3.	27.0 1	19.4 2	3.8 13.	49.8 7
				3.9 18.	.3 15.	.2 23.	.9 29.	.2 26.	.7 15.	.9 23.	.4 23.	.3 15.	.2 15.				.6 22.	.1 13.	LC		.8 22.		Н		1.3 86.	
	Neoplasms	о	2 67.4	7 103.	.6 76.3	2 73.	7 85.	1 72.	5 72.	8 84.	7 96.4	8 35.3	3 49.2	4 65.1	117.1	4 38.4	0 54.6	9 40.1	3 73.	9 72.7	2 73.8	1 59.4	2 61.2	2 71.6	4 484.	7 258.0
	Trichomoniasis		10.	9 3.7	2 43.	5 12.	3.7	4.	5 6.5	.5 10.	.3 63.	11.	3 3.6	0 10.	9.4	2 8.4	9 15	5 10.	5 9.3	6.6 9.9	5 8.2	0 10	4 8.2	.6 13.	7 14.	3 13.
E	Gonococcal infection		1.4	7.9	3 18.2	9 6.5	4 4.6	18.1	9.9	2 18.5	7 105.3	7 1.5	0 13.3	1 5.0	5 7.3	1 10.2	3 20.9	2 7.5	6 10.5	0 16.6	5 3.5	7 34.0	5 8.4	0 15.6	5 12.7	6 14.3
Out of them	Congenital syphilis	9	1 9.2	3.6	5 31.3	11.9	3 46.4	4 52.4	3 10.0	9 14.2	33.7	13.7	13.0	7 15.1	21.5	1.	7 48.3	24.2	20.6	3 21.0	14.5	2 32.7	9 23.5	21.0	22.5	3 21.6
0	Brucellosis		2 30.4	3.1	12.5	16.1	7 29.3	8 45.4	0 23.3	0 15.9	1 47.3	9 7.0	0 34.0	3 37.7	5 12.0	3 3.2	3 55.7	9.3	8 9.7	1 31.6	7 7.5) 25.2	3 55.9	23.0	3 7.0	15.8
	Tuberculosis Viral hepatitis	4	.6 5.2	9 4.4	.2 6.1	14.8 4.2	5 4.7	.9 12.8	.6 15.0	0.4.0	.7 5.1	.0 3.9	1 13.0	.5 8.6	.1 7.5	2 6.8	4.3	.0 1.0	.5 17.8	.0 7.1	.1 5.7	.3 4.0	30.9 6.8	.4 7.0	.5 5.6	.0 6.4
		က	0.0	.5 8.9	3.6 12.2		9.9 6.5	1.1 30.9	9.0 46.6	0.1 24.0	.3 33.7	0.21 6.8	.9 8.1	3.1 19.5	13.1	3.0 6.2	5.5 26.4	0.78 0.4	30.5	0.08 0.0	.6 18.1	.1 15.3	-	9.21.4	.2 31.5	.7 26.0
	Certain infectious and parasitic diseases	2	.0 119.0	9 54.5	.8 316.6	.1 147.4	8 239.9	5 244.1	3 186.0	.3 140.1	2 471.3	6 136.9	5 145.9	166.1	1 145.1	.7 138.0	1 296.5	2 113.0	149.1	4 159.0	1 98.6	1 191.1	4 191.3	5 176.9	.4 267.2	1 217.7
	Total	-	10178.0	5408.9	10745.8	10707.1	7442.8	6338.5	8945.3	13795.3	7837.2	5926.6	8723.5	5959.4	7804.1	10970.7	7478.1	5046.2	9041.8	8278.4	7297.1	8001.1	7298.4	8198.5	10770.4	9360.1
	Ne Province and city	АВ	1 Arkhangai	2 Bayan-Ulgii	3 Bayankhongor	4 Bulgan	5 Govi-Altai	6 Govisumber	7 Darkhan-Uul	8 Dornogovi	9 Dornod	10 Dundgovi	11 Zavkhan	12 Orkhon	13 Uvurkhangai	14 Umnugovi	15 Sukhbaatar	16 Selenge	17 Tuv	18 Uvs	19 Khovd	20 Khuvsgul	21 Khentii	22 Province average	23 Ulaanbaatar	24 National average
	2	~	, -	. 1	.,	7	٦,	J	,-	w	٥,	~	_	Ψ.	~	_	~	~	~	~	~	7	7	7	7	7

Health indicators, 2017 179

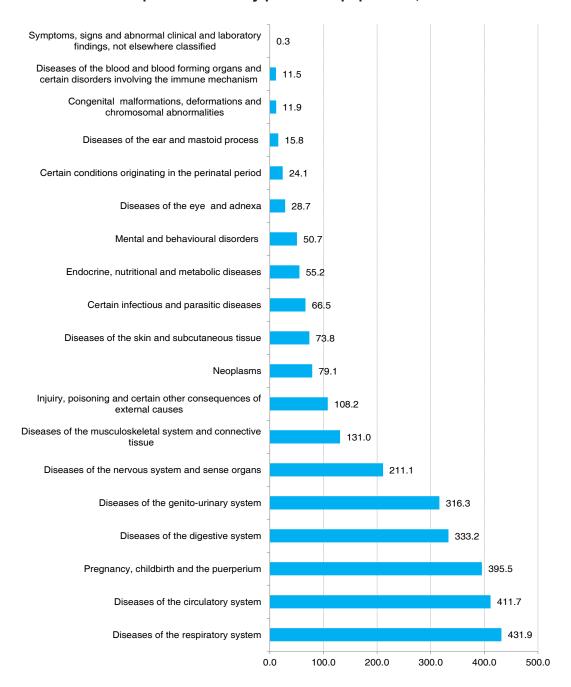
OUTPATIENT MORBIDITY (PER 10 000 POPULATION), 2017 /CONTINUE/

				00	Out of them				no	Out of them			DI		Out of them	mer		ıtal	pu		
Diseases of the respiratory system Influenza Acute upper respiratory infections Acute upper respiratory infections	Diseases of the respiratory system Influenza Pneumonia Acute upper respiratory infections	Pneumonia Acute upper respiratory infections	Acute upper respiratory infections		- emritsA		Chronic obstructive pulmonary disease	Diseases of the digestive system	Gastric ulcer	Chronic inflammation of the liver	Alcoholic livet disease	Diseases of the skin and subcutaneous tis	Disesses of the musculoskeletal system ar	Diseases of the genito-urinary system	Acute and chronic renal failure	Acute and chronic pyelonephritis	Pregnancy, childbirth and the puerperium	Certain conditions originating in the perins period	Conginatal malformations, deformations a chromosomal abnormalities	Symptoms, signs and abnormal clinical an laboratory findins, not elsewhere classiffed	Injuiry, poisoning and certain other consequences of external causes
B 28 29 30 31 32	29 30 31 32	30 31 32	31 32	32			33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Arkhangai 2389.6 288.7 339.4 480.5 14.0 67	288.7 339.4 480.5 14.0	339.4 480.5 14.0	480.5 14.0	14.0		9	6.	1697.4	27.6	64.2	0.7	408.0	244.5	1475.1	5.1	1014.1	328.8	18.5	27.7	0.0	210.3
Bayan-Ulgii 1003.9 288.3 186.7 22.8 8.4 73.	288.3 186.7 22.8 8.4 73.	186.7 22.8 8.4 73.	22.8 8.4 73.	8.4 73.	73.	73.	4	766.0	10.2	20.8	6.1	136.4 2	219.0 7	728.7	15.1	492.4	441.2	4.3	19.7	50.4	115.4
Bayankhongor 2115.6 155.2 311.2 469.5 70.2 41.8	155.2 311.2 469.5 70.2 41.	311.2 469.5 70.2 41.	469.5 70.2 41.	70.2 41.	41.			1730.0	37.9	106.4	1.0 4	498.6 5	577.0 1	1319.8	8.0	883.9	371.0	19.6	9.03	0.0	147.2
Bulgan 2188.9 129.9 357.2 114.0 28.6 218.9	129.9 357.2 114.0 28.6 218.	357.2 114.0 28.6 218.	114.0 28.6 218.	28.6 218.	218.			2219.1	14.3	272.0	2.6 3	343.7 2	276.8 1	1347.5	23.4	888.3	240.3	25.2	31.0	0.0	179.9
Govi-Altai 1415.4 266.7 99.2 213.4 33.8 60.8	266.7 99.2 213.4 33.8 60.	99.2 213.4 33.8 60.	213.4 33.8 60.	33.8 60.	.09	8.09		1281.1	26.6	45.6	0.9	386.6 2	209.8	978.1	2.6	532.2	327.9	39.4	23.7	0.7	313.5
Govisumber 2129.1 519.0 674.0 0.0 11.7 102.5	519.0 674.0 0.0 11.7 102	674.0 0.0 11.7 102	0.0 11.7 102	11.7 102	102		_	678.6	23.3	0.0	0.0	262.7	263.9	612.2	1.7	344.3	407.2	34.4	5.8	0.0	604.7
Darkhan-Uul 2166.0 430.2 435.6 98.5 25.2 61.6	430.2 435.6 98.5 25.2 61.	435.6 98.5 25.2 61.	98.5 25.2 61.	25.2 61.	61.			1615.3	20.8	5.6	0.3	656.1 2	272.5	7.807	2.0	419.7	353.6	20.5	9.7	0.0	327.9
Dornogovi 3471.3 379.5 600.0 164.7 37.8 211.0	379.5 600.0 164.7 37.8 211.	600.0 164.7 37.8 211	164.7 37.8 211	37.8 211	211			2565.2	17.1	204.9	2.4 7	707.4 8	829.8	1218.0	9.8	591.8	371.7	42.4	26.0	0.0	476.4
Dornod 1408.6 275.9 191.0 207.7 20.0 64.0	275.9 191.0 207.7 20.0 64.	191.0 207.7 20.0 64.	207.7 20.0 64.	20.0 64.	64			2063.7	17.4	63.8	0.1	444.2 2	255.0	688.1	1.3	364.3	370.7	4.1	9.5	0.0	262.7
Dundgovi 1423.3 211.1 492.1 154.7 25.5 119.7	211.1 492.1 154.7 25.5	492.1 154.7 25.5	154.7 25.5	25.5		119.7		1067.3	14.4	27.7	0.7	180.9	341.9	680.1	2.4	537.1	342.1	16.8	15.2	0.7	216.3
Zavkhan 1551.7 182.7 153.8 371.0 17.2 60.0	182.7 153.8 371.0 17.2 60.	153.8 371.0 17.2 60.	371.0 17.2 60.	17.2 60.	.09			2146.7	25.7	26.6	0.7	176.6 2	297.2	1102.4	3.9	781.9	291.6	42.8	18.6	6.4	204.4
12 Orkhon 1821.6 375.4 126.6 99.6 15.6 114.3	375.4 126.6 99.6 15.6 114.	126.6 99.6 15.6 114.	99.6 15.6 114.	15.6 114.	114			638.2	10.9	30.0	0.5	470.7	214.9	543.4	3.0	395.6	325.4	49.7	18.7	0.0	214.0
13 Uvurkhangai 1353.3 166.9 326.6 48.3 17.9 96.1	166.9 326.6 48.3 17.9 96.	326.6 48.3 17.9 96.	48.3 17.9 96.	17.9 96.	.96			1595.6	17.1	116.4	0.8	412.1 2	238.4	1008.8	16.3	573.5	379.5	21.0	40.1	0.2	261.8
Umnugovi 2907.4 551.4 438.8 148.2 40.2 116.8	551.4 438.8 148.2 40.2 116.	438.8 148.2 40.2 116	148.2 40.2 116.	40.2 116.	116.			2029.6	20.0	173.4	1.9 5.	523.9 4	423.5	889.7	0.6	465.1	458.1	30.8	18.3	0.0	274.1
Sukhbaatar 2167.0 148.3 391.9 121.8 24.4 51.4	148.3 391.9 121.8 24.4 51.	391.9 121.8 24.4 51.	121.8 24.4 51.	24.4 51.	51.			1169.0	9.7	154.9	0.8	354.5 2	216.2	763.4	3.3	533.1	305.5	10.4	15.5	8.0	268.8
inge 1181.8 144.1 325.6 4.5 27.4	144.1 325.6 4.5 27.4 80.	325.6 4.5 27.4 80.	4.5 27.4 80.	27.4 80.	80.	80.9		598.2	16.6	8.3				706.2	2.4		256.3	20.1	2.9	0.0	165.1
Tuv 2119.3 527.5 320.4 112.1 25.2 94.5	527.5 320.4 112.1 25.2 94.	320.4 112.1 25.2 94.	112.1 25.2 94.	25.2 94.	94.			1777.7	21.9	94.6	0.7	382.7 3	306.1	968.1	6.7	604.7	207.4	7.7	21.8	0.3	148.3
18 Uvs 1864.6 149.4 463.3 386.3 31.5 49.8	149.4 463.3 386.3 31.5 49.	463.3 386.3 31.5 49.	386.3 31.5 49.	31.5 49.	49.			1313.2	12.6	45.4	0.0	292.4	320.0	1005.1	2.1	673.1	456.8	20.9	24.6	12.9	206.9
19 Khovd 916.9 62.9 448.0 8.5 18.0 32.9	62.9 448.0 8.5 18.0 32.	448.0 8.5 18.0 32.	8.5 18.0 32.	18.0 32.	32.			1561.5	25.4	9.1	1.0 1,	141.2 7	8 6.287	812.3	9.1	529.5	347.9	10.4	7.4	1.5	133.0
20 Khuvsgul 1563.4 176.3 347.6 88.3 18.7 57.8	176.3 347.6 88.3 18.7 57.	347.6 88.3 18.7 57.	88.3 18.7 57.	18.7 57.	. 22			1497.0	15.4	220.0	0.5	301.0	164.1	9.598	2.1	628.3	477.8	25.4	36.6	0.0	165.0
Khentii 1706.9 342.2 206.1 85.0 35.6 144.9	342.2 206.1 85.0 35.6 144	206.1 85.0 35.6 144	85.0 35.6 144	35.6 144	144		Н	1121.6	21.9	27.5	1.3	245.4 4	413.3	8.059	1.5	461.3	285.1	9.6	14.8	0.0	272.1
Province average 1796.1 264.0 326.8 160.3 25.6 86.5	1796.1 264.0 326.8 160.3 25.6 86.	326.8 160.3 25.6 86.	160.3 25.6 86.	25.6 86.	.98	86.9	6	1478.8	19.1	84.1	1.2	363.9	327.5	912.2	6.3	591.5	351.8	21.8	21.9	4.0	224.8
23 Ulaanbaatar 1520.0 40.3 281.5 66.2 25.1 169	40.3 281.5 66.2 25.1	281.5 66.2 25.1	66.2 25.1	25.1		169	0.	1655.8	38.8	101.5	3.0 7	767.1 4	456.8 1	1001.2	18.6	421.0	491.5	72.1	6.07	40.6	858.9
24 National average 1671.4 163.0 306.3 117.8 25.3 124.	1671.4 163.0 306.3 117.8 25.3 124	306.3 117.8 25.3 124	117.8 25.3 124	25.3 124	124		o.	1558.8	28.0	91.9	2.0	546.0 3	385.9	952.4	11.9	514.5	414.9	44.5	44.0	20.5	511.2
							4														

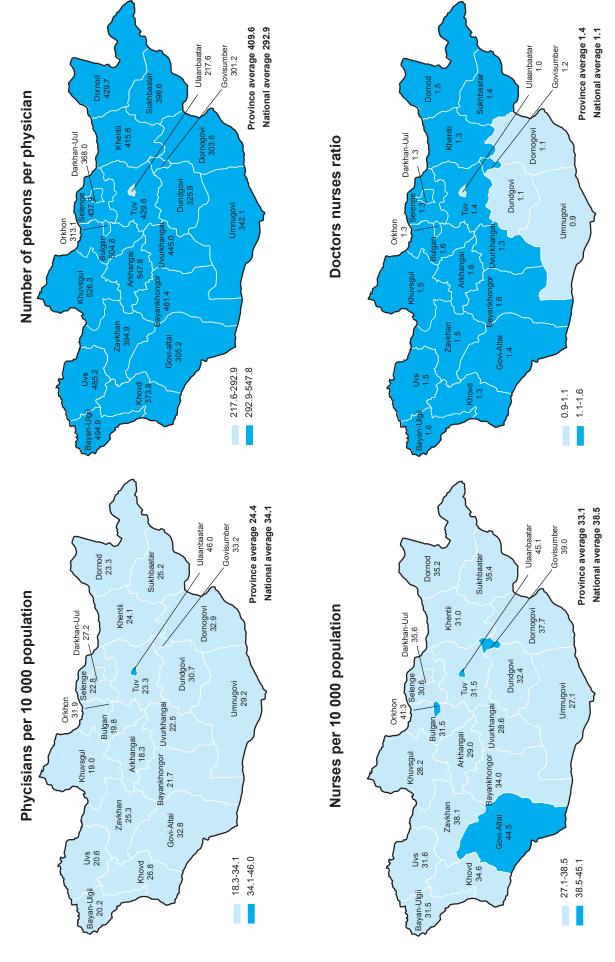
Outpatient Morbidity per 10 000 population, 2017



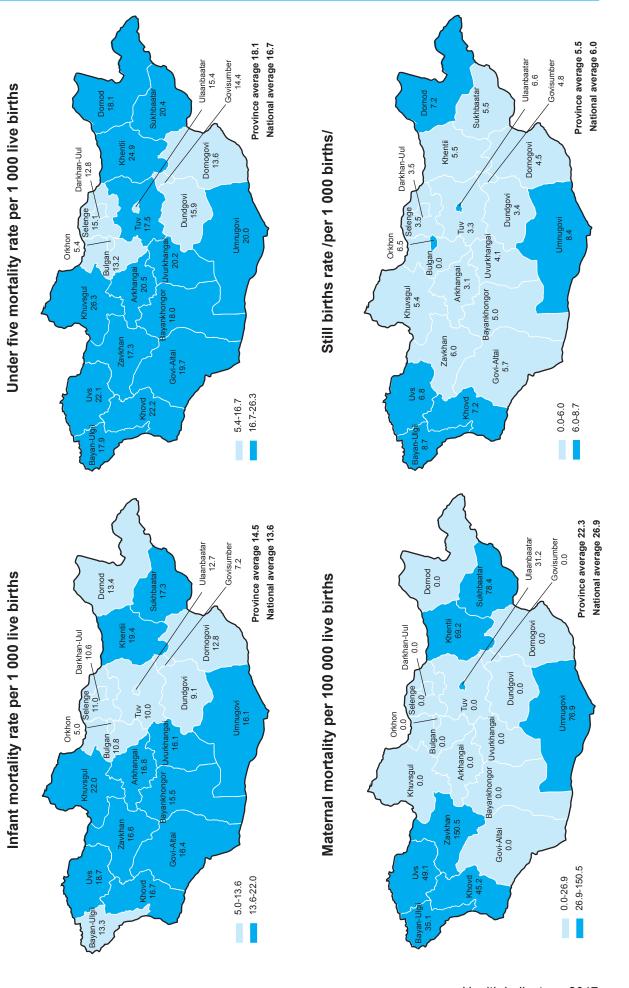
Inpatient Morbidity per 10 000 population, 2017



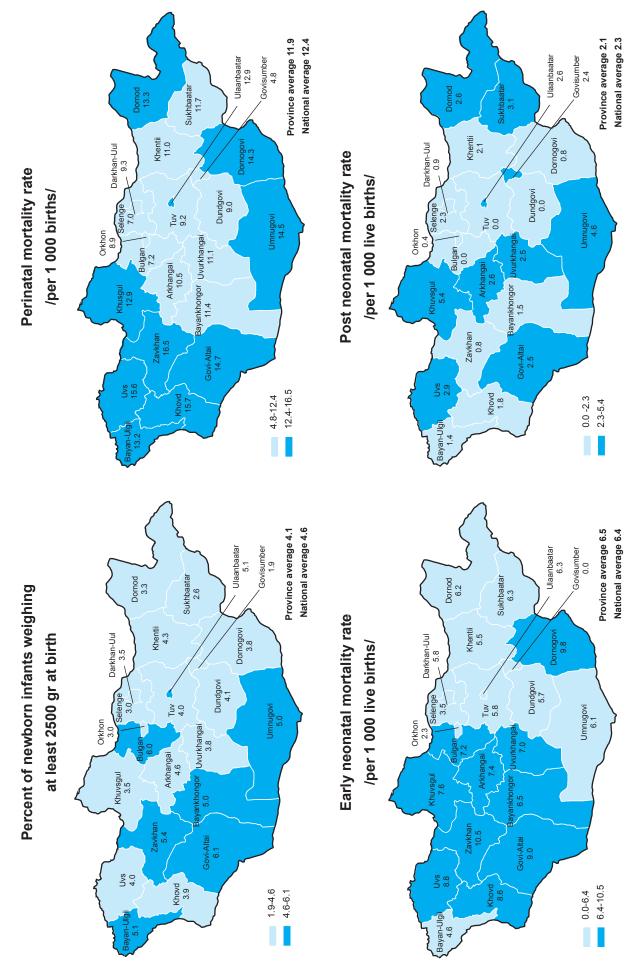
HUMAN RESOURCES INDICATORS



QUALITY AND ACCESSIBILITY INDICATORS OF MEDICAL CARE AND SERVICES



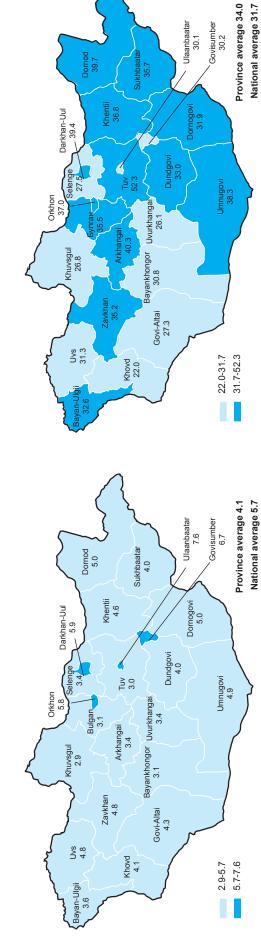
QUALITY AND ACCESSIBILITY INDICATORS OF MEDICAL CARE AND SERVICES

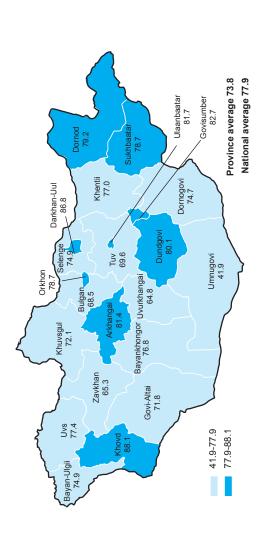


QUALITY AND ACCESSIBILITY INDICATORS OF MEDICAL CARE AND SERVICES

Average outpatient visits per person per year

Percentage of preventive medical check-up

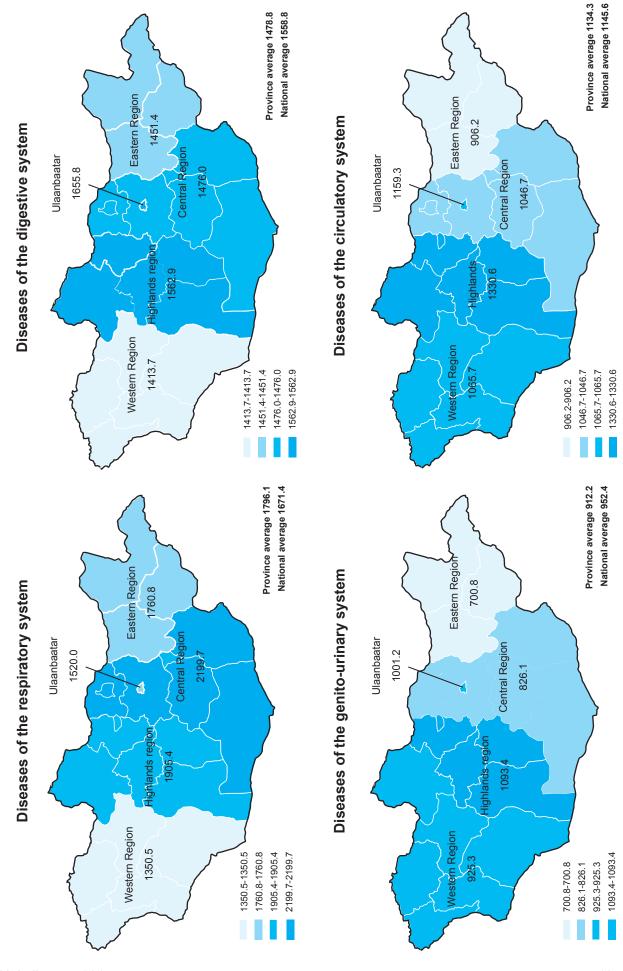




186 Health indicators, 2017

Percentage of bed fund

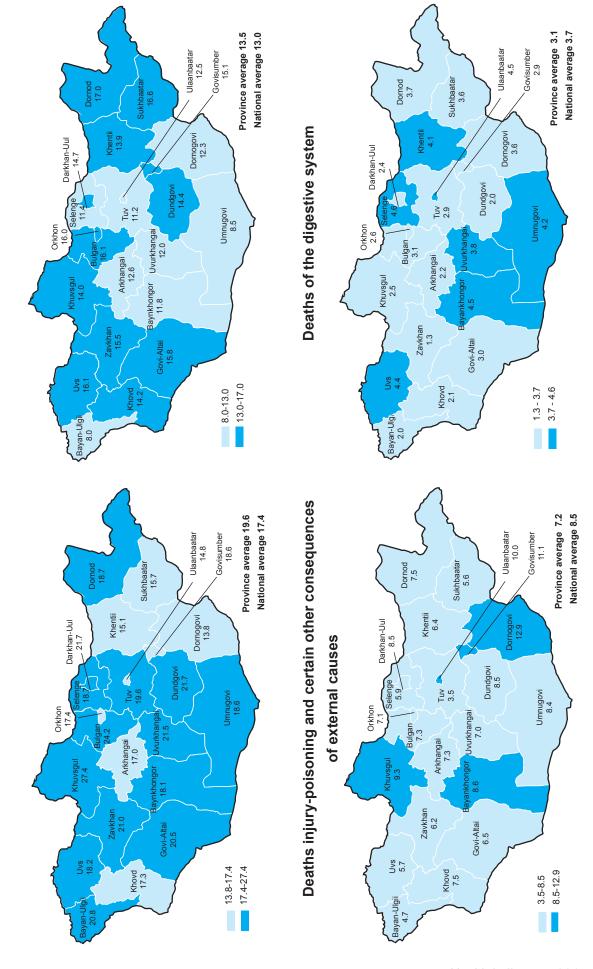
LEADING CAUSES OF THE MORBIDITY, PER 10 000 POPULATION



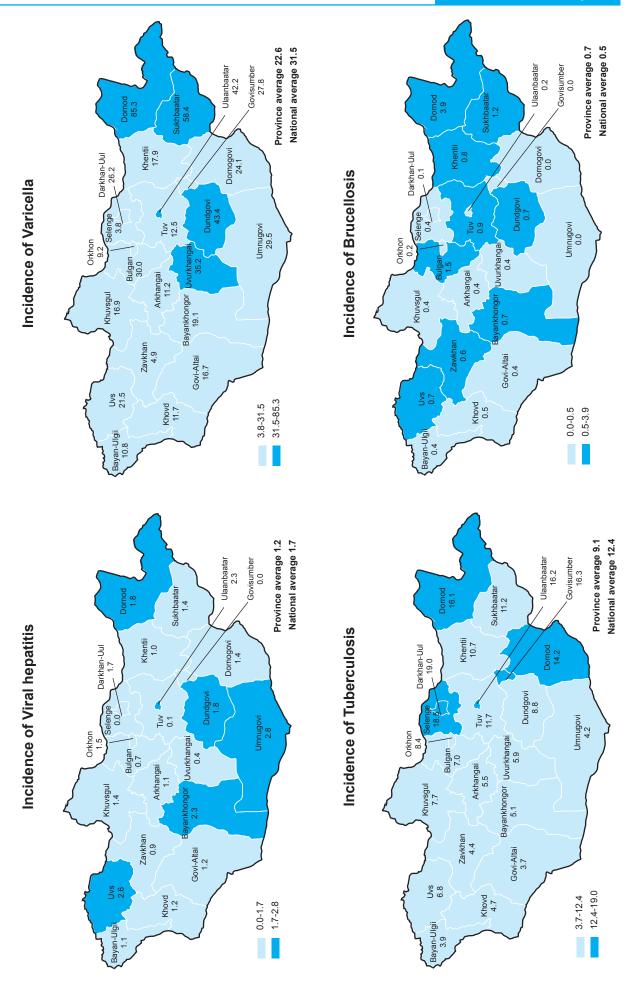
LEADING CAUSES OF THE MORTALITY, PER 10 000 POPULATION

Deaths of the circulatory system

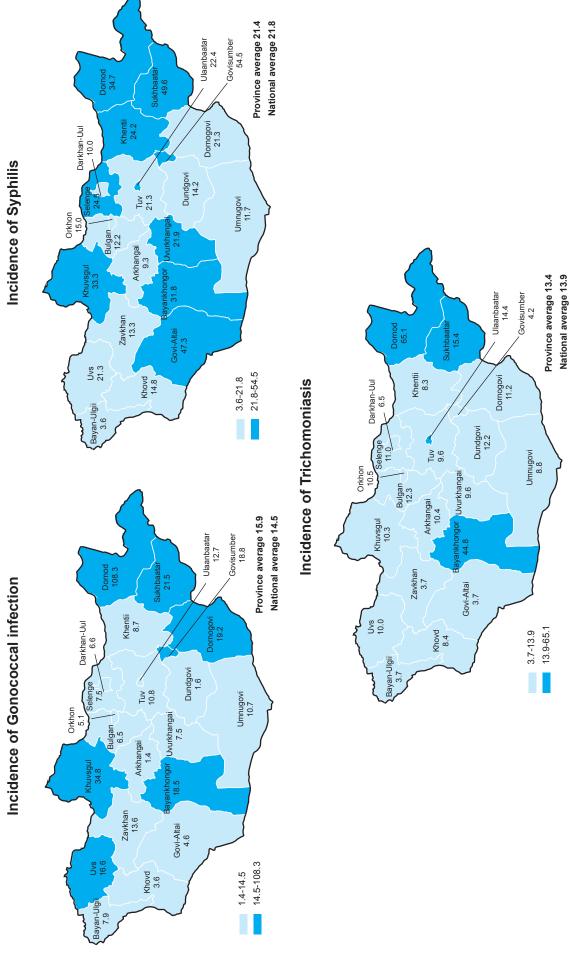
Deaths of the Neoplasm



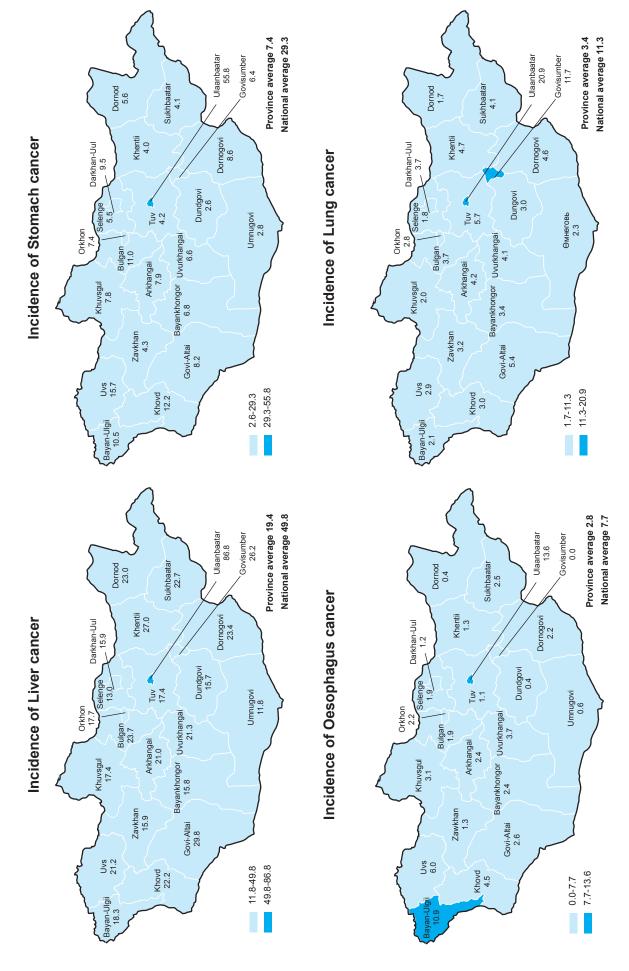
SELECTED REGISTERED INFECTIOUS DISEASES, PER 10 000 POPULATION



SEXUAL TRANSMITTED INFECTIOUS DISEASES, PER 10 000 POPULATION



INCIDENCE OF MALIGNANT NEOPLASMS, PER 10 000 POPULATION



DEATHS OF MALIGNANT NEOPLASMS, PER 10 000 POPUALTION

