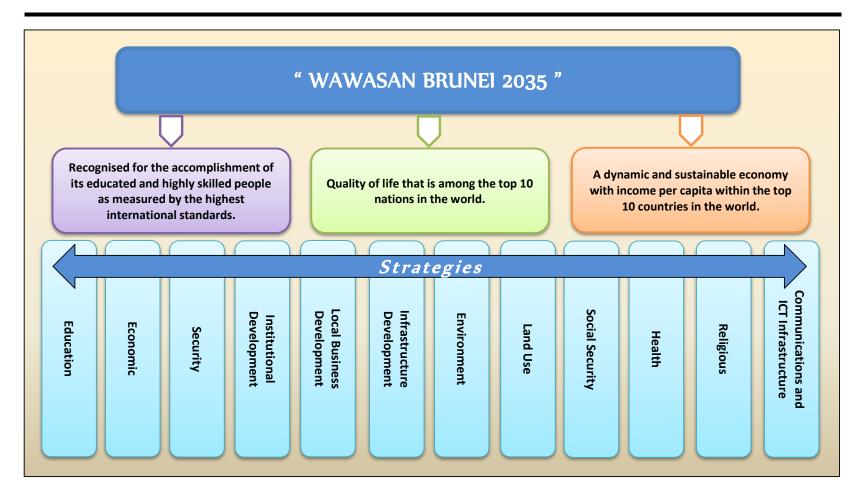


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Brunei Darussalam's Vision and Strategies



Ministry of Health's Vision and Organisational Values

MINISTRY **OF HEALTH**

VISION

'together towards a healthy nation'

PURPOSE

'to improve the health and wellbeing of the people of Brunei Darussalam through a high quality and comprehensive health care system which is effective, efficient, responsive, affordable, equitable and accessible to all in the country'

OUR **PRIORITIES**



to make "health everyone's business"



excellence

we uphold the

highest level of professionalism,

where everyone

matters and

everyone delivers

the highest

quality service

every time

to enhance 02 quality of service delivery



to prevent and control non-communicable diseases

ORGANISATIONAL VALUES



dynamic

we embrace change and develop our people through having a "growth mindset"

to continuously improve

we thrive on the opportunity

together

we are one and we embrace diversitv

client first

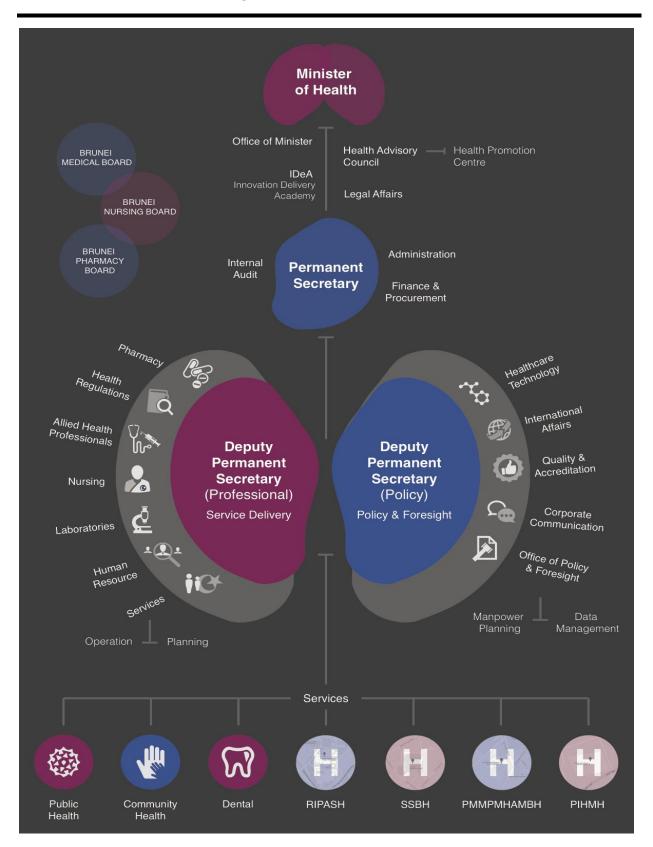
our clients

define us

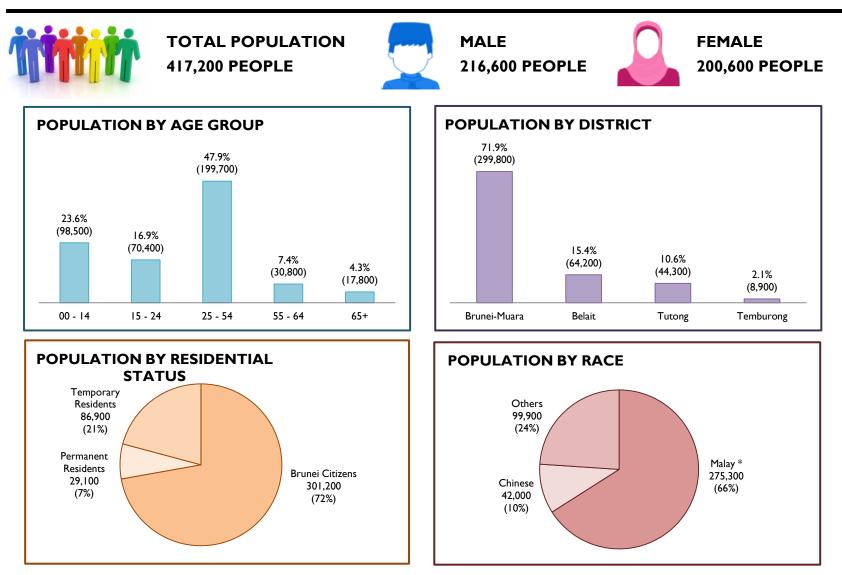
we are united through one common purpose

Health Information Booklet 2015 | 03

Organisational Structure



Population (2015)



Note :

* Includes Other Indigenous Groups of the Malay race namely Belait, Bisaya, Brunei, Dusun, Kedayan, Murut and Tutong.

Source :

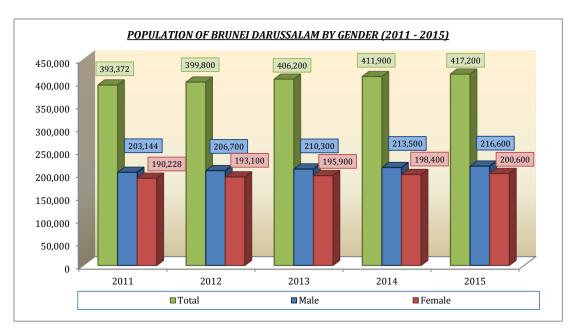
Department of Economic Planning and Development, Prime Minister's Office

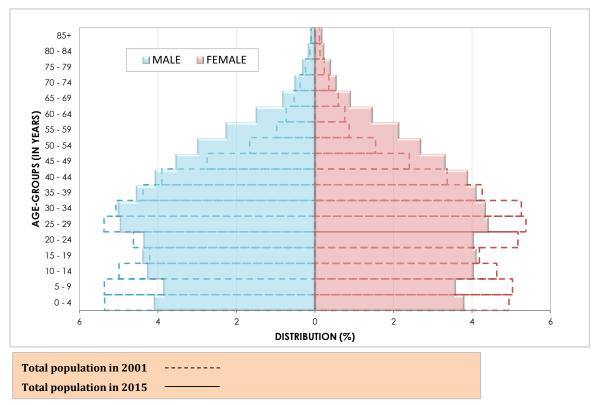
Population distribution by Age

<u>Age Group (in tho</u>	<u>isands)</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
0 - 4	:	30.323	31.1	32.0	32.4	32.9
5 - 9	:	33.659	33.0	31.9	31.5	31.0
10 - 14	:	35.453	35.5	35.6	35.4	34.6
15 - 19	:	34.967	35.0	35.1	35.2	35.4
20 - 24	:	38.150	37.4	36.4	35.6	35.0
25 - 29	:	39.185	39.3	39.7	39.4	39.1
30 - 34	:	36.896	37.8	38.3	38.8	39.0
35 - 39	:	33.796	34.1	34.7	35.1	36.1
40 - 44	:	30.122	31.2	32.0	32.9	33.2
45 - 49	:	24.610	25.4	26.3	27.7	28.6
50 - 54	:	19.781	20.8	22.2	22.6	23.7
55 - 59	:	14.044	15.0	16.1	17.1	18.4
60 - 64	:	8.518	9.5	10.4	11.5	12.4
65 - 69	:	5.088	5.3	5.7	6.5	7.3
70 - 74	:	3.901	4.4	4.6	4.6	4.5
75 - 79	:	2.601	2.6	2.6	2.8	3.1
80 - 84	:	1.405	1.4	1.6	1.8	1.8
85 & Over	:	0.873	1.0	1.0	1.0	1.1

Source :

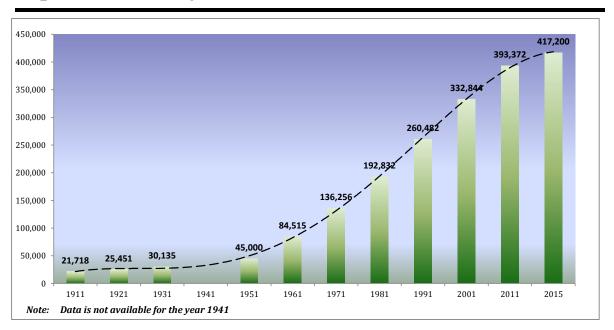
Department of Economic Planning and Development, Prime Minister's Office





Note:

Population pyramid shows percentage distribution of population by gender and age-groups. For example, (0 - 4) age-group for the year 2015 is represented with 7.9% of total population in which 4.1% and 3.8% are made up of male and female population respectively.

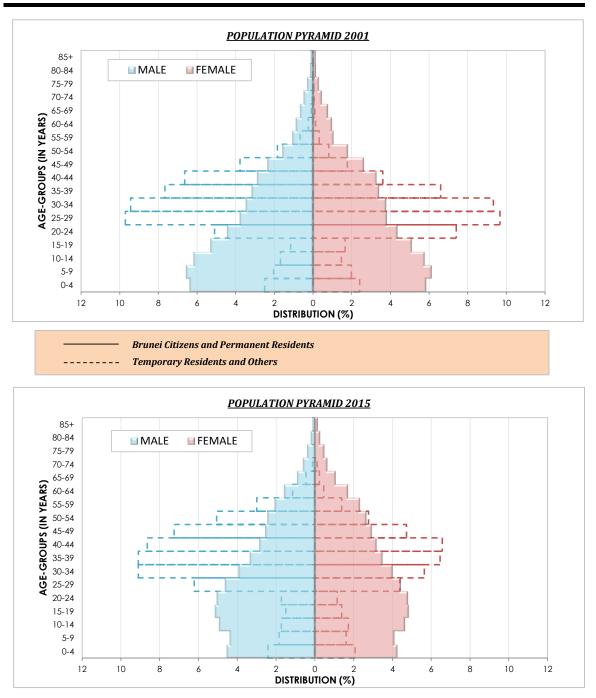


Population Trend of Brunei Darussalam (1911 - 2015)

Source :

Department of Economic Planning and Development, Prime Minister's Office

Population Pyramid by Age-Group, Gender and Residential Status for the Years 2001 and 2015



Population aged 60 years and above for the year 2015 is represented with 7.2% of total population in which 3.5% and 3.7% are made up of male and female population respectively.

On the residential status, the share of the Brunei Citizens was around 72.2%, Permanent Residents 7.0% and Temporary Residents 20.8%. As is the case of affluent countries with small populations, the foreign proportion of the population is rather high. The relatively high number of foreign population is being contributed by the number of working immigrants.

Source: Department of Economic Planning and Development, Prime Minister's Office

Vital Statistics

	2011	2012	2013	<u>2014</u>	2015
Crude Birth Rate : (per 1,000 Population)	17.1	17.3	16.4	16.7	16.1
General Fertility Rate : (per 1,000 Female Population Aged (15-49))	58.8	59.9	57.5	58.9	57.0
Total Fertility Rate (per Female Population Aged (15-49))	1.9	1.9	1.9	1.9	1.9
Crude Death Rate (per 1,000 Population)	3.1	3.0	3.4	3.6	3.7
Infant Mortality Rate (per 1,000 Live Births)	8.3	9.3	7.8	7.3	8.8
Late Fetal Death Ratio (per 1,000 Live Births) Berinatal Mortality Ratio	3.7	3.9	5.5	6.4	5.1
Perinatal Mortality Ratio (per 1,000 Live Births) Early Neonatal Mortality Rate	6.8	7.5	8.4	9.0	8.7
(per 1,000 Live Births) Late Neonatal Mortality Rate	3.1	3.6	2.8	2.6	3.6
(per 1,000 Live Births) Neonatal Mortality Rate	2.1	1.7	0.9	1.2	1.8
(per 1,000 Live Births) Post Neonatal Mortality Rate	5.2	5.4	3.7	3.8	5.4
(per 1,000 Live Births)	3.1	3.9	4.0	3.5	3.4
(per 1,000 Live Births)	10.0	10.3	9.7	8.7	10.3
Number of Maternal Deaths * : Maternal Mortality Ratio :	0.0	3	1	1	4
(per 100,000 Live Births) Maternal Mortality Ratio	0.00	43.4 0.43	15.0 0.15	14.5 0.15	59·7 0.60
(per 1,000 Live Births) Life Expectancy At Birth - Total :	77.1	78.1	77.1	77.4	77.4
- Male :	75.6	76.3	75.7	75.9	76.9
- Female :	78.5	79.9	78.4	78.8	78
Percentage of Newborns Weighing At Least 2500g At Birth	88.1	87.9	88.2	88.1	87.7
Percentage of Deliveries by Trained Health Personnel	99.7	99.8	99.7	99.9	100.0
Per Capita GDP at current prices (B\$) Thousand	59.2	59.5	55.7	52.6	42.6

Note:

*

Red text - Millennium Development Goals (MDGs) Indicators

- as per registered by Birth, Death and Adoption Section, Immigration and National Registration Department and amended for coding misclassifications by the Statistics Unit, Ministry of Health.

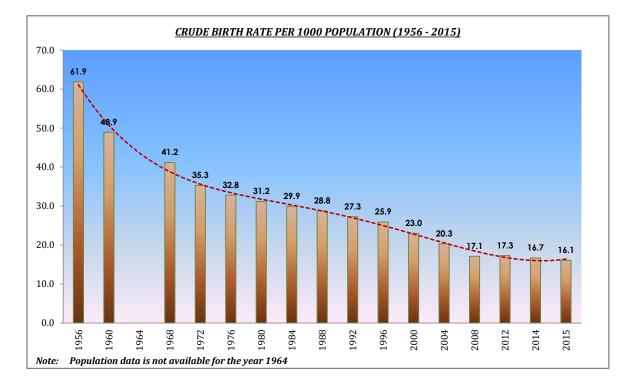
Vital Statistics

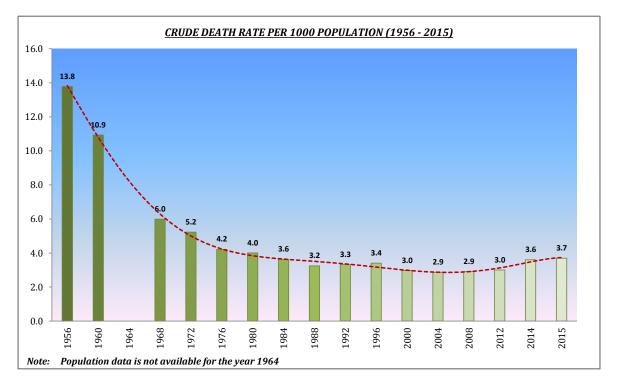
Country	Life Expectancy at Birth (MALE)	Life Expectancy at Birth (FEMALE)	Life Expectancy at Birth (BOTH SEXES)	Maternal Mortality Ratio (per 100,000 livebirths)	Under-five Mortality Rate (per 1000 livebirths)	Neonatal Mortality Rate (per 1000 livebirths)
Latest available year			2	015		
		[
BRUNEI DARUSSALAM	76.3	79-2	77.7	23	10.2	4.3
MALAYSIA	72.7	77.3	75.0	40	7.0	3.9
SINGAPORE	80.0	86.1	83.1	10	2.7	1.0
AUSTRALIA	80.9	84.8	82.8	6	3.8	2.2
AUSTRIA	79.0	83.9	81.5	4	3.5	2.1
BELGIUM	78.6	83.5	81.1	7	4.1	2.2
CZECH REPUBLIC	75.9	81.7	78.8	4	3.4	1.8
DENMARK	78.6	82.5	80.6	6	3.5	2.5
FINLAND	78.3	82.8	81.1	3	2.3	1.3
FRANCE	79.4	85.4	82.4	8	4.3	2.2
GERMANY	78.7	83.4	81.0	6	3.7	2.1
GREECE	78.3	83.6	81.0	3	4.6	2.9
ICELAND	81.2	84.1	82.7	3	2.0	0.9
IRELAND	79.4	83.4	81.4	8	3.6	2.3
ITALY	80.5	84.8	82.7	4	3.5	2.1
JAPAN	80.5	86.8	83.7	5	2.7	0.9
REPUBLIC OF KOREA	78.8	85.5	82.3	11	3.4	1.6
LUXEMBOURG	79.8	84.0	82.0	10	1.9	0.9
NETHERLAND	80.0	83.6	81.9	7	3.8	2.4
NEW ZEALAND	80.0	83.3	81.6	11	5.7	3.1
NORWAY	79.8	83.7	81.8	5	2.6	1.5
OMAN	75.0	79.2	76.6	17	11.6	5.2
PORTUGAL	78.2	83.9	81.1	10	3.6	2.0
SPAIN	80.1	85.5	82.8	5	4.1	2.8
SWEDEN	80.7	84.0	82.4	4	3.0	1.6
SWITZERLAND	81.3	85.3	83.4	5	3.9	2.7
UK	79.4	83.0	81.2	9	4.2	2.4

REFERENCE WORLD HEALTH STATISTICS 2016 : MONITORING HEALTH FOR THE SDGs, WHO PUBLICATION

Health Indicators

The crude birth rate of Brunei Darussalam has declined from 23.0 in 2000 to 16.1 per 1000 population in 2015 whilst the crude death rate is 3.7 per 1000 population in 2015.





Brunei Darussalam has achieved most of the health related targets set in the Millennium Development Goals. These include significant reductions in under 5 mortality rate (U5MR) and infant mortality rate (IMR) that the figures from the last two decades have shown only slight fluctuations to the current level, which is on par with the standard set in developed nations.

Brunei Darussalam does well in maternal health. In fact, Brunei Darussalam ranks highly in the lowest incidence of maternal mortality. The most important reason for Brunei Darussalam's success in lowering maternal mortality to record levels since independence is that almost 100 percent of deliveries take place in hospitals with highly trained medical staff. Moreover, the Maternal and Child Health (MCH) programme that provides universal coverage of prenatal care, has ensured universal healthcare access to its people.

Goals and Targets (from the Millennium Declaration)	Indica	ators for Monitoring progress	Brunei Darussalam's Current Status Related to Health (2015 data)
Goal 1 : Eradicate Extreme Poverty and	Hung	er	
Target 1.C : Halve, between 1990 and 2015, the proportion of people who suffer from hunger.	1.8	Prevalence of underweight children under-five years of age (%)	9.6 *
Goal 2 : Achieve Universal Primary Educ	ation		
Goal 3: Promote Gender Equality and Er	npow	ver Women	
Goal 4: Reduce Child Mortality			
Target 4.A: Reduce by two-thirds, between 1990	4.1	Under-five mortality rate (per 1,000 live births)	10.3
and 2015, the under-five mortality rate		Infant mortality rate (per 1,000 live births)	8.8
	4.3	Proportion of 1 year-old children immunised against measles (%)	96.0
Goal 5: Improve Maternal Health			
Target 5.A: Reduce by three quarters, between	5.1	Maternal mortality ratio (per 100,000 live births)	59.7
1990 and 2015, the maternal mortality ratio	5.2	Proportion of births attended by skilled health personnel (%)	100
Target 5.B: Achieve, by 2015, universal access to	5.3	Contraceptive prevalence rate (%)	
reproductive	5.4	Adolescent birth rate (per 1,000 female population aged (15-19) years)	11.4
	5.5	Antenatal care coverage (at least one visit and at least four visits) (%)	
	5.6	Unmet need for family planning (%)	

Note:

* - 2nd National Health and Nutritional Status Survey (NHANSS), Phase 1:0-5 years old

... - not available

Brunei Darussalam has been successful in reversing the trend for HIV/AIDS and Malaria and other diseases. This is made possible by providing universal access to treatment for HIV/AIDS for all those who need it, through as series of integrated measures aimed at preventing and controlling the outbreak of existing diseases and the emergence of new ones.

The achievements of Brunei Darussalam are internationally recognised by the World Health Organization (WHO) that certified Brunei Darussalam a Malaria Free country in 1987, Poliomyelitis Free in 2000 and has achieved Measles Elimination in March 2015.

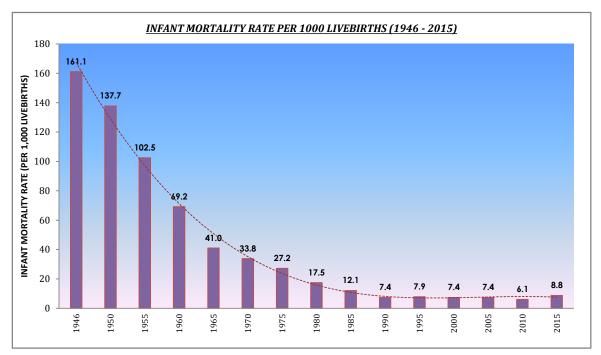
Goals and Targets (from the Millennium Declaration)	Indica	tors for Monitoring progress	Brunei Darussalam's Current Status Related to Health (2015 data)
Goal 6: Combat HIV/AIDS, Malaria and C	Other I	Diseases	
Target 6.A: Have halted by 2015 and begun to		HIV prevalence among population aged 15 24 years (%)	0.01
reverse the spread of HIV/AIDS	6.2	Condom use at last high-risk sex (among population aged 15-24 years) (%)	
	6.3	Proportion of population aged 15-24 years with comprehensive correct knowledge of HIV/AIDS (%)	
Target 6.B: Achieve, by 2010, universal access to treatment for HIV/AIDS for all those who need it		Proportion of population with advanced HIV infection with access to anti-retroviral drugs (%)	
Target 6.C: Have halted by 2015 and begun to		Incidence and death rates associated with malaria (per 100,000 population)	Incidence Rate (1.9) Death Rate (0.0)
reverse the incidence of malaria and other major diseases	6.7	Proportion of children under 5 sleeping under insecticide-treated bednets (%)	
	6.8	Proportion of children under 5 with fever who are treated with appropriate anti- malarial drugs (%)	
	6.9	Incidence, prevalence and death rates associated with tuberculosis (per 100,000 population)	Incluence Rate (51.5)
		Proportion of tuberculosis cases detected and cured under directly observed treatment short course (%)	
Goal 7: Ensure Environmental Sustainal	oility		
Goal 8: Develop A Global Partnership Fo	or Dev	elopment	

Note:

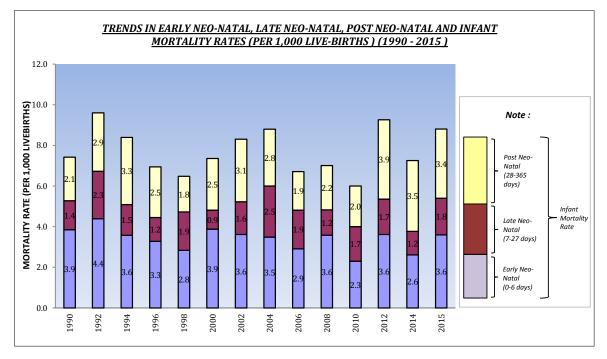
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Millennium Development Goals (MDGs) Indicators

Brunei Darussalam's infant mortality rate has reached a steady state since 1990 and is on par with figures in developed nations. Infant mortality rate has declined rapidly from 50.8 per 1000 livebirths in 1962 to 8.8 per 1000 livebirths in 2015.

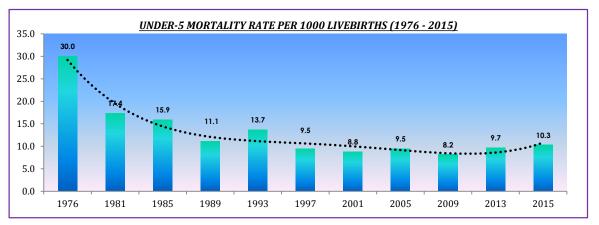


Data from 2004-2015 showed over two thirds of deaths occurred during early and late neonatal periods, mainly due to perinatal conditions and congenital abnormalities. In 2015, deaths occurring at infant period (less than 1 year) account for 85.5% of total deaths in U5MR.



Brunei Darussalam has been able to gradually reduce the under-5 mortality rate (U5MR) from 30 deaths per 1000 livebirths in 1976 to 10.3 deaths per 1000 livebirths in 2015. The current challenge is to achieve further reductions in U5MR where the data analysis from 2004 to 2015 showed a high proportion of neonatal deaths, mainly due to perinatal conditions and congenital abnormalities.

Abortion in Brunei Darussalam is only legal when it will save a woman's life. The prohibition does not permit the termination of a pregnancy even when there is a high risk to the baby's life. For example, in certain conditions originating in the perinatal period or congenital malformations, which are the leading causes of infant mortality in Brunei Darussalam. In 2015, this caused more than 76.8 percent of total under five deaths.

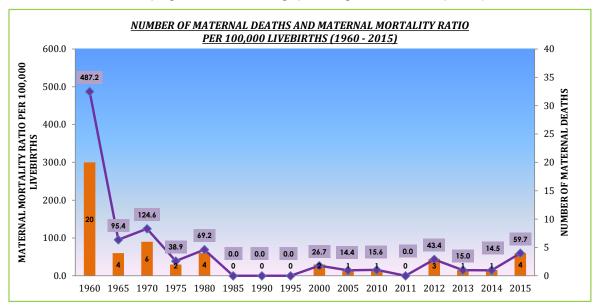


	LEADING C	AUSES OF UNDER 5 MO	RTALITY IN BRUNEI DAI	RUSSALAM (2011 - 2015)	
	2011	2012	2013	2014	2015
1	Certain Conditions Originating In The Perinatal Period	Certain Conditions Originating In The Perina Period			
	24	38	26	24	27
2	Congenital Malformations, Deformations and Chromosomal Abnormalities	Congenital Malformations, Deformations and Chromosomal Abnormalities	Congenital Malformations, Deformations and Chromosomal Abnormalities	Congenital Malformations, Deformations and Chromosomal Abnormalities	Congenital Malformation Deformations and Chromosomal Abnormalities
	23	9	15	17	26
2	Heart Diseases	Septicaemia	Cancer	Septicaemia	Heart Diseases
3	2	2	3	2	2
4	Accidental Drowning and Submersion	Cancer	Transport Accidents	Diarrhoea and Gastroenteritis of Presumed Infectious Origin	Accidental Drowning ar Submersion
	2	2	3	1	2
5	Meningococcal Infection	Heart Diseases	Heart Diseases	Other Intestinal Infectious Diseases	Cancer
-	1	2	2	1	1
6	Septicaemia	Influenza & Pneumonia	Septicaemia	Cancer	Exposure to Smoke, Fir and Flames
	1	2	1	1	1
7	Cancer	Bronchitis, Chronic & Unspecified Emphysema & Asthma	Influenza & Pneumonia	Anaemias	
	1	1	1	1	
8	Influenza & Pneumonia	Assault	Unspecified Acute Lower Respiratory Infection	Heart Diseases	
	1	1	1	1	
THERS **	12	14	13	12	8
TOTAL	67	71	65	60	67

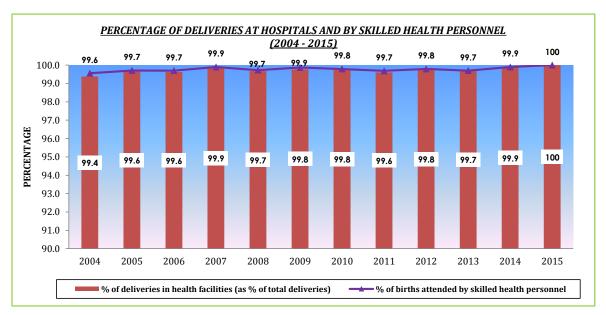
Millennium Development Goals (MDGs) Indicators

The Maternal Mortality Ratio (MMR) in Brunei Darussalam has shown a marked decline since the 1960s - from 487.2 per 100,000 live births in 1960 down to 0.0 per live birth in 1990. Since then, the MMR has shown slight fluctuations and consistently very low maternal mortality ratio (MMR). In 2015, four maternal death was recorded which the ratio is equivalent to 59.7 per live births.

It must be noted that Brunei Darussalam's small population and relatively low live births (around 7,000 annually) makes calculation of MMR sensitive to small changes and any small fluctuations will result in significant jump in MMR. The very low value of MMR can be attributed to the high access to reproductive health care, immunisation programmes as well as high percentage deliveries in hospitals by skilled health

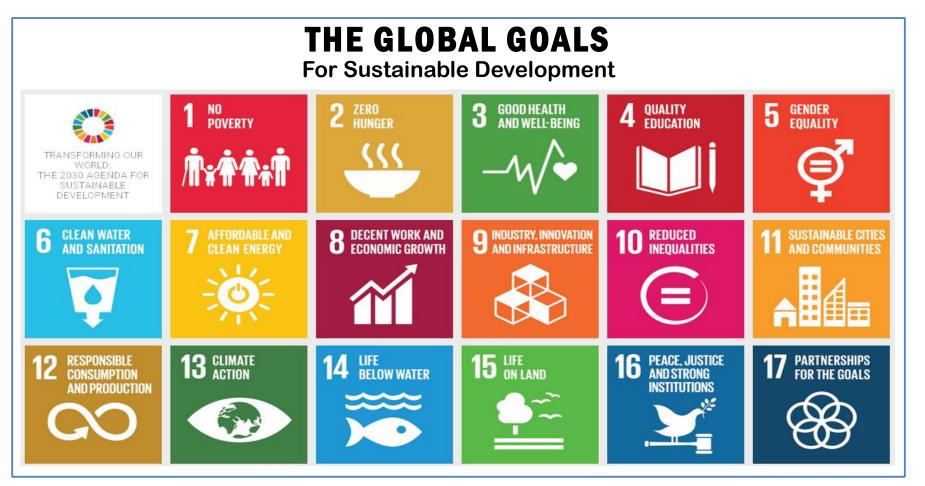


Almost all deliveries in Brunei Darussalam are attended by skilled health personnel who supervise, provide care and advice to women during pregnancy, labour and the postpartum period. They also conduct deliveries and care for the newborn child.



Sustainable Development Goals (SDGs)

In 2015, the Millennium Development Goals (MDGs) has came to the end of their term. On 25 September 2015, the United Nations (UN) General Assembly adopted the new development agenda "Transforming our world: the 2030 agenda for sustainable development". The post-2015 agenda comprising 17 Sustainable Development Goals (SDGs) and 169 targets, including one specific goal for health with 13 targets, of the new development agenda integrate the three dimensions of sustainable development around people, planet, prosperity, peace and partnership.



Goals and Targets

Goal 3 : Good Health and Well-Being

Target 3.1:

By 2030, reduce the global maternal mortality ratio to less than 70 per 100,000 live births

Target 3.2:

By 2030, end preventable deaths of newborns and children under 5 years of age, with all countries aiming to reduce neonatal mortality to at least as low as 12 per 1,000 live births and under-5 to at least as low as 25 per 1,000 live births

Target 3.3:

By 2030, end the epidemics of AIDS, tuberculosis, malaria and neglected tropical diseases and combat hepatitis, water-borne diseases and other communicable diseases

Target 3.4:

By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being

Target 3.5:

Strengthen the prevention and treatment of substance abuse, including narcotic drug abuse and harmful use of alcohol

Target 3.6:

By 2020, halve the number of global deaths and injuries from road traffic accidents

Target 3.7:

By 2030, ensure universal access to sexual and reproductive health-care services, including for family planning, information and education, and the integration of reproductive health into national strategies and programmes

Target 3.8:

Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all

Target 3.9:

By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination

Target 3.a:

Strengthen the implementation of the World Health Organization Framework Convention on Tobacco Control in all countries, as appropriate

Target 3.b:

Support the research and development of vaccines and medicines for the communicable and non-communicable diseases that primarily affect developing countries, provide access to affordable essential medicines and vaccines, in accordance with the Doha Declaration on the TRIPS Agreement and Public Health, which affirms the right of developing countries to use to the full the provisions in the Agreement on Trade-Related Aspects of Intellectual Property Rights regarding flexibilities to protect public health, and, in particular, provide access to medicines for all

Target 3.c:

Substantially increase health financing and the recruitment, development, training and retention of the health workforce in developing countries, especially in least developed countries and small island developing States

Target 3.d:

Strengthen the capacity of all countries, in particular developing countries, for early warning, risk reduction and management of national and global health risks

Note:

... - not available

MEDICAL CARE	NUMBER
- HOSPITALS	5 (1)
- MEDICAL CLINICS (Ministry of Defence)	8
- DIALYSIS CENTRES	7
HEALTH SERVICES	
- HEALTH CENTRES	16
- HEALTH CLINICS	6
- MATERNAL AND CHILD HEALTH CLINICS	7
- TRAVELLING HEALTH CLINICS	5
- FLYING MEDICAL SERVICES	2
DENTAL SERVICES	
- DENTAL SERVICES AT:	
HOSPITALS	4
HEALTH CENTRES	1
	17
HEALTH CLINICS	
STATIC SCHOOL CLINICS	44
STATIC SCHOOL CLINICS MOBILE SQUAD	11
STATIC SCHOOL CLINICS	
STATIC SCHOOL CLINICS MOBILE SQUAD	11
STATIC SCHOOL CLINICS MOBILE SQUAD TRAVELLING (FLYING TEAM)	11
STATIC SCHOOL CLINICS MOBILE SQUAD TRAVELLING (FLYING TEAM) PRIVATE HEALTH SERVICES	11 0
STATIC SCHOOL CLINICS MOBILE SQUAD TRAVELLING (FLYING TEAM) PRIVATE HEALTH SERVICES	11 0 2

Note:

(1) - Including The Brunei Cancer Centre (TBCC)

(2) - Jerudong Park Medical Centre (JPMC) and Gleneagles Jerudong Park Centre (GJPMC)

(3) - Panaga Health Centre

(4) - Including 12 health clinic branches

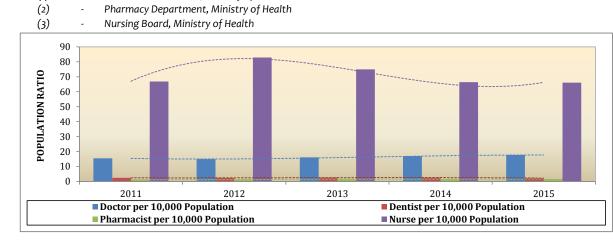
(5) - Including 1 dental clinic branch

Human Resource in Health

Human Resourc	es (2015)	Government	Army	Private	Total			
	Male	353	6	53	412			
Doctors ⁽¹⁾	Female	275	10	42	327			
	TOTAL	628	16	95	739			
Population per Doc	tor				565			
Doctor per 10,000 F	18							
	Male	30	4	9	43			
Dentists ⁽¹⁾	Female	46	2	3	51			
	TOTAL	76	6	12	94			
Population per Den	4438							
Dentist per 10,000 F	Population				2			
	Male	8	0	2	10			
Pharmacists ⁽²⁾	Female	41	0	20	61			
	TOTAL	49	0	22	71			
Population per Pha	rmacist				5876			
Pharmacist per 10,0	000 Population				2			
	Male	456	9	75	540			
Nurses (including midwives) ⁽³⁾	Female	1909	15	292	2216			
	TOTAL	2365	24	367	2756			
Population per Nur	Population per Nurse							
Nurse per 10,000 Pc	opulation				66			

(1)

- Brunei Medical Board, Ministry of Health
- Pharmacy Department, Ministry of Health



Human Resource in Health

Country	Physicians per 10 000 population	Nursing and Midwifery Personnel per 10 000 population	Dentistry Personnel per 10 000 population	Pharmaceutical Personnel per 10 000 population
Latest available year		(2007 -	2013)	
	E Contraction of the second			
BRUNEI DARUSSALAM	14.4	80.5	4.2	4.0
MALAYSIA	12.0	32.8	3.6	4.3
SINGAPORE	19.5	57.6	4.1	4.1
AUSTRALIA	32.7	106.5	5.4	10.2
AUSTRIA	48.3	79.1	5.7	6.9
BELGIUM	29.9	167.6	7.5	25.6
CZECH REPUBLIC	36.2	84.3	7.1	7.6
DENMARK	34.9	167.9	7.9	
FINLAND	29.1	108.6	7.3	11.1
FRANCE	31.9	93.0	6.6	10.9
GERMANY	38.9	114.9	8.1	6.2
GREECE				
ICELAND	34.8	155.9	8.2	10.9
IRELAND	26.7			11.7
ITALY	37.6			
JAPAN	23.0	114.9	7.9	21.5
REPUBLIC OF KOREA	21.4	50.1	4.5	6.7
LUXEMBOURG	29.0	126.1	8.9	7.3
NETHERLAND		83.8		2.1
NEW ZEALAND	27.4	108.7	4.6	10.1
NORWAY	42.8	172.7	8.8	6.8
OMAN	24.3	53.8	2.8	18.8
PORTUGAL	41.0	61.1	7.6	10.2
SPAIN	49-5	56.7	8.2	14.2
SWEDEN	39.3	110.5	8.1	7.7
SWITZERLAND	40.5	173.6	5-4	5.6
UK	28.1	88.0	5.4	8.1

REFERENCE WORLD HEALTH STATISTICS 2015, WHO PUBLICATION

Note:

... - not available or not applicable

Allied Health Professionals for 2015	Male	Female	TOTAL
Audiologist	0	5	5
Biomedical Engineer	8	5	13
Cardiac Technologist / Technician	0	1	1
Clinical Psychologist	3	19	22
Dental Hygienist / Therapist	37	52	89
Dietician / Nutritionist	7	20	27
Health Education Officer	4	7	11
Health Inspector	35	39	74
Maxillofacial Prosthetist & Technologist	4	0	4
Medical Laboratory Technicians	8	19	27
Medical Record Officer	30	63	93
Medical Social Worker	1	16	17
Neurophysiology Technologist	3	11	14
Occupational Therapist	3	23	26
Optometrist	0	9	9
Orthoptist	1	1	2
Paramedic	14	12	26
Physiotherapist	9	12	21
Podiatrist	1	7	8
Prosthetist and Orthotist	3	0	3
Public Health Officer	4	13	17
Radiographer	7	27	34
Laboratory Scientific Officer	32	81	113
Speech Language Therapist	0	5	5
Teacher for the Hearing Impaired	1	1	2

Human Resource in Health

Source: Department of Administration and Finance, Ministry of Health

Government Health Expenditure

	2013/14	2014/15	2 <u>015/16</u>
Total Health Budget (B\$ Millions)	366.48	373.21	385.12
Health Budget as % of National Budget	8.37	7.73	8.19
Per Capita Health Budget (B\$)	902	906	923
Health Budget as % of GDP	1.62	1.72	2.17
Total Health Expenditure (B\$ Millions)	389.33	384.31	
Health Expenditure as % of Government Expenditure	8.27	8.04	
Per Capita Health Expenditure (B\$)	958	933	
Health Expenditure as % of GDP	1.72	1.77	

Note:

- Gross Domestic Product

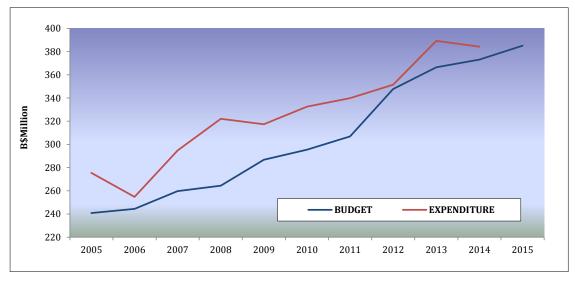
- Not available

Source:

GDP

...

- (Budget) Budget Section, Ministry of Finance
- (Expenditure) Ledger Section, Treasury Department, Ministry of Finance



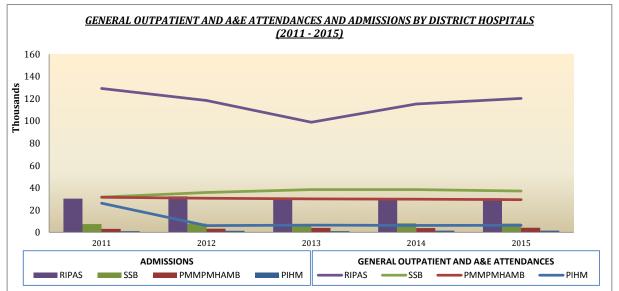
The Department of Medical Services is responsible for the delivery of hospital services in all four districts. The hospital services in the country have developed and progressed tremendously in providing secondary and tertiary care. This includes providing highly specialized care in almost all areas of specialties in line with the current disease trends and enabling patients to access medical care in the country.

The main referral government hospital in the country is Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital; located at the capital city. RIPAS Hospital offers a very wide and comprehensive range of medical and surgical services covering almost 30 different specialties and subspecialties.

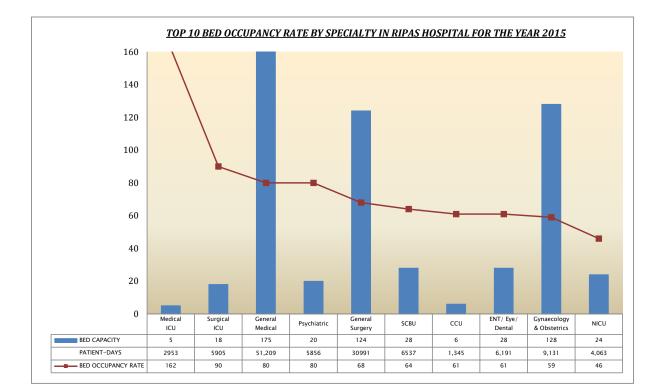
ACTIVITIES FOR THE YEAR 2015	RIPAS	SSB	РММРМНАМВ	РІНМ	TOTAL
OUTPATIENT ACTIVITIES					
General Outpatient Attendances				15,718	15,718
Accident & Emergency (A&E) Outpatient Attendances	120,311	37,156	29,360	6,293	193,120
Specialist Outpatient Attendances	267,373	84,840	40,449	8,058	400,720
TOTAL OUTPATIENT ATTENDANCES	387,684	121,996	69,809	30,069	609,558
INPATIENT ACTIVITIES					
Available Beds	761	222	109	51	1,143
Admissions	30,571	7,918	4,059	1,471	44,019
Discharges & Deaths	30,514	7,853	4,086	1,117	43,570
Patient Days	165,044	44,274	19,920	232	229,470
Day Patients	10,785	12,874		4,399	28,058
TOTAL (ADMISSIONS + DAY PATIENTS)	41,356	20,792	4,059	5,870	72,077
PERFORMANCE INDICES					
Average Number of Inpatients per Day	452	121	55	1	629
Bed Occupancy Rate	59	55	50	1	55
Average Duration of Stay (Days)	5.4	5.6	4.9	0.2	5-3
Average Turnover of Patients per Bed	40	35	37	22	38
Average Turnover Interval (Days)	3.7	4.7	4.9	16.5	4-3

Note:

... - Since the decentralisation of primary healthcare services in 2000, hospital outpatient services are now provided at numerous health centres.



BED CAPACITY AND OCCUPANCY RATES (2011 - 2015)										
		011	2	012	2	013	2	014	2	015
HOSPITAL	Bed Capacity	Bed Occupancy Rate (%)								
RIPAS	607	68%	607	74%	619	72%	619	74%	761	59%
SSB	222	53%	222	57%	222	55%	222	56%	222	55%
РММРМНАМВ	107	27%	108	26%	103	45%	109	46%	109	51%
PIHM	32	10%	39	12%	39	21%	49	24%	51	1%
TOTAL	968	58%	976	62%	983	63%	999	64%	1143	55%



Source: RIPAS Hospital Monitoring Services

(RIPAS HOSPITAL)									
CLINICAL DISCIPLINE	2011	2012	2013	2014	2015				
Clinical Psychology	1,076	1,167	1,054	476	602				
Dental / Dental Clinic	5,239	5,493	5,380	5,711	6,457				
Diabetes & Endocrinology	9,229	9,515	8,872	6,814	7,847				
Dietition	11,751	12,273	12,763	13,186	14,566				
Eye	34,003	34,982	30,662	30,324	30,982				
Gastroenterology & Hepatology	14,700	16,004	14,819	14,726	11,464				
Gynaecology	14,073	13,381	13,544	14,105	13,704				
Haematology	10,096	11,590	11,609	12,033	12,272				
Hearing Therapy	599	491	677	748	829				
Medical	9,857	7,987	10,850	12,418	12,020				
Neuro-surgical	2,751	2,806	2,879	2,986	2,978				
Obstetrics	18,583	17,964	19,405	16,934	14,883				
Occupational Therapy	6,815	7,944	8,243	8,161	8,770				
Oral Maxillo-facial	14,380	14,623	15,822	15,821	17,574				
ORL / ENT	43,808	12,025	17,367	11,141	12,068				
Orthopaedic	18,485	18,445	17,901	19,732	20,394				
Orthotic / Prosthetic	1,190	1,066	715	452	602				
Paediatrics	10,650	9,567	7,770	9,206	13,212				
Physiotherapy	15,649	12,633	13,040	11,612	12,313				
Plaster Room	2,558	2,246	2,754	2,929	3,438				
Podiatry	3,331	3,882	3,767	4,164	4,652				
Psychiatric	6,285	6,292	7,217	7,706	7,679				
Respiratory Medicine	5,590	5,721	5,706	6,055	6,169				
Skin	19,813	17,949	17,183	17,862	18,792				
Speech Therapy	2,720	2,949	3,353	3,014	414				
Surgical	11,066	8,819	8,683	11,170	12,692				
TOTAL	294,297	257,814	262,035	259,486	267,373				

SPECIALIST OUTPATIENT ATTENDANCES BY CLINICAL DISCIPLINE

(SSB HOSPITAL)								
CLINICAL DISCIPLINE	2011	2012	2013	2014	2015			
Cardiology Clinic	154	132	667	1,026	1,941			
Chest Clinic	416	469	559	584	516			
Daycare (Psychiatric)	3,017	3,012	3,448	3,579	3,757			
Dental / Dental Clinic	8,972	9,324	8,906	9,469	9,548			
Diabetes & Endocrinology					4,769			
Dietition	751	681	623	626	666			
Еуе	9,540	9,301	7,654	8,191	8,745			
Gastro	976	965	772	849	871			
Gynaecology	4,793	4,357	3,004	2,539	2,445			
Oral Maxillo-facial	772	666	684	638	469			
Medical	10,572	11,236	8,432	7,176	8,237			
Medical Social Worker	265	206	203	215	287			
Neurology	259	110	55	109	161			
Neuro-surgical	209	193	222	182	174			
Nursing Personnel (Dental)	2,660	2,495	2,080	2,035	2,056			
Occupational Therapy	3,360	3,980	2,441	1,650	1,786			
Oncology	286	322	354	369	356			
ORL / ENT	5,057	5,312	3,834	3,733	3,704			
Orthopaedic	4,172	4,730	3,233	3,066	2,962			
Paediatrics	8,891	9,404	7,977	9,317	9,281			
Physiotherapy	8,451	6,158	5,896	5,057	6,121			
Podiatry	305	340	353	338	350			
Psychiatric	2,096	2,068	1,894	2,169	2,309			
Renal Unit	587	633	355	292	7,123			
Respiratory Medicine	543	470	342	267	233			
Rheumatology					129			
Skin	5,764	3,164	1,927	1,588	1,469			
Speech Therapy	407	434	475	573	642			
Surgical	5,844	5,210	4,324	4,006	3,733			
TOTAL	89,119	85,372	70,714	69,643	84,840			

SPECIALIST OUTPATIENT ATTENDANCES BY CLINICAL DISCIPLINE (SSB HOSPITAL)

(PMMPMHAMB HOSPITAL)									
CLINICAL DISCIPLINE	2011	2012	2013	2014	2015				
Daycare (Psychiatric)	1,437	1,133	1,343	778	325				
Dental / Dental Clinic	14,734	14,505	10,164	10,058	10,772				
Dietition		1,100	376	484	712				
Eye	4,147	5,597	6,687	6,686	7,034				
Gynaecology	2,226	4,215	2,996	2,983	2,728				
Medical	7,574	8,153	7,542	7,856	6,735				
Occupational Therapy	766	751	811	763	949				
Oral Maxillo-facial		360	325	290	273				
ORL / ENT	1,898	1,528	2,139	1,042	1,231				
Orthopaedic	358	234	344	387	359				
Paediatrics	3,238	3,097	2,744	2,688	2,602				
Physiotherapy	4,072	3,105	3,587	3,905	4,484				
Psychiatric	583	794	611	2,029	755				
Renal Unit	85								
Respiratory Medicine	498	395	384	387	344				
Skin	2,269	1,515	754	580	499				
Surgical	1,014	757	1,006	744	647				
TOTAL	44,899	47,239	41,813	41,660	40,449				

SPECIALIST OUTPATIENT ATTENDANCES BY CLINICAL DISCIPLINE

SPECIALIST OUTPATIENT ATTENDANCES BY CLINICAL DISCIPLINE (PIHM HOSPITAL)

CLINICAL DISCIPLINE	2011	2012	2013	2014	2015
Cardiology Clinic	44	65	42	8	6
Daycare (Psychiatric)				19	
Dental / Dental Clinic	4,650	3,897	4,503	4,227	4,645
Diabetes & Endocrinology	1,099	1,101	805	526	282
Dietition	156	125	89	59	56
Eye	1,560	1,055	913	1,131	914
Gynaecology	931	1,224	1,113	948	953
Handicapped Playgroup	525	406	148		
Medical	260	496	443	404	373
Oral Maxillo-facial	86	152	63	46	66
Orthopaedic	191	175	151	178	175
Physiotherapy	245	214	225	198	261
Podiatry	41	21	37	21	24
Psychiatric	132	91	66	97	82
Renal Unit	191	173	168	185	221
Skin	421	217			
TOTAL	10,532	9,412	8,766	8 ,0 47	8,058

Note: ... - not available

Leading Causes of Deaths for the Year 2015 (Based on ICD-10)

The four leading causes of deaths which accounted for 58.7 percent of the total deaths were comprised of Non-Communicable Diseases namely Cancer, Heart Diseases, Diabetes Mellitus and Cerebrovascular Diseases.

No.	ICD-10 CODE	TYPE OF DISEASE	MALE	FEMALE	TOTAL	%	RATE PER 100,000 POPULATION
1	Coo - C97	Cancer (Malignant Neoplasms)	137	175	312	20.2	74.8
2	100 - 109, 120 - 152	Heart Diseases (Including Acute Rheumatic Fever)	128	65	193	12.5	46.3
3	E10 - E14	Diabetes Mellitus	82	65	147	9.5	35.2
4	160 - 169	Cerebrovascular Diseases	60	42	102	6.6	24.4
5	J10 - J18	Influenza and Pneumonia	33	42	75	4.8	18.0
6	l10 - l15	Hypertensive Diseases	30	24	54	3.5	12.9
7	A40 - A41	Septicaemia	25	26	51	3.3	12.2
8	J40 - J46	Bronchitis, Chronic & Unspecified Emphysema & Asthma	15	29	44	2.8	10.5
9	Qoo - Q99	Congenital Malformations, deformations and Chromosomal Abnormalities	21	13	34	2.2	8.1
10	Vo1 - V99	Transport Accidents	26	8	34	2.2	8.1
	Others			228	501	32.4	120.1
		TOTAL DEATHS	830	717	1,547	100.0	370.8

Leading Causes of Deaths (2011 - 2015)

No.	2011	2012	2013	2014	2015
1	Cancer (Malignant Neoplasms)	Cancer (Malignant Neoplasms)	Cancer (Malignant Neoplasms)	Cancer (Malignant Neoplasms)	Cancer (Malignant Neoplasms)
	256 (20.7%)	280 (23.0%)	295 (21.1%)	298 (20.3%)	312 (20.2%)
2	Heart Diseases (Including Acute Rheumatic Fever)	Heart Diseases (Including Acute Rheumatic Fever)	Heart Diseases (Including Acute Rheumatic Fever)	Heart Diseases (Including Acute Rheumatic Fever)	Heart Diseases (Including Acute Rheumatic Fever)
	183 (14.8%)	152 (12.5%)	183 (13.1%)	228 (15.5%)	193 (12.5%)
3	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus
	116 (9.4%)	123 (10.1%)	131 (9.4%)	141 (9.6%)	147 (9.5%)
4	Cerebrovascular Diseases	Cerebrovascular Diseases	Cerebrovascular Diseases	Cerebrovascular Diseases	Cerebrovascular Diseases
	86 (7.0%)	70 (5.8%)	82 (5.9%)	103 (7.0%)	102 (6.6%)
5	Bronchitis, Chronic and Unspecified Emphysema & Asthma	Hypertensive Diseases	Hypertensive Diseases	Hypertensive Diseases	Influenza and Pneumonia
	50 (4.0%)	45 (3.7%)	71 (5.1%)	64 (4.4%)	75 (4.8%)
6	Hypertensive Diseases	Transport Accidents	Bronchitis, Chronic and Unspecified Emphysema & Asthma	Influenza and Pneumonia	Hypertensive Diseases
	49 (4.0%)	45 (3.7%)	54 (3.9%)	63 (4.3%)	54 (3.5%)
7	Transport Accidents	Influenza and Pneumonia	Influenza and Pneumonia	Bronchitis, Chronic and Unspecified Emphysema & Asthma	Septicaemia
	42 (3.4%)	41 (3.4%)	48 (3.4%)	48 (3.3%)	51 (3.3%)
8	Congenital Malformations, Deformations and Chromosomal Abnormalities	Bronchitis, Chronic and Unspecified Emphysema & Asthma	Septicaemia	Septicaemia	Bronchitis, Chronic and Unspecified Emphysema & Asthma
	35 (2.8%)	39 (3.2%)	35 (2.5%)	42 (2.9%)	44 (2.8%)
9	Septicaemia	Certain Conditions Originating In The Perinatal Period	Transport Accidents	Transport Accidents	Congenital Malformations, Deformations and Chromosomal
	29 (2.3%)	38 (3.1%)	30 (2.1%)	28 (1.9%)	34 (2.2%)
10	Certain Conditions Originating In The Perinatal Period	Septicaemia	Certain Conditions Originating In The Perinatal Period	Certain Conditions Originating In The Perinatal Period	Transport Accidents
	24 (1.9%)	27 (2.2%)	26 (1.9%)	24 (1.6%)	34 (2.2%)
OTHERS	365 (29.6%)	356 (29.3%)	445 (31.8%)	431 (29.3%)	501 (32.4%)
GRAND TOTAL	1,235 (100.0%)	1,216 (100.0%)	1,400 (100.0%)	1,470 (100.0%)	1,547 (100.0%)

	•	deaths were for t				TOTAL
No.	Under 1 year	1-4 years	5 - 9 years	10 - 14 years	15 - 18 years	(< 19 years)
1	Certain Conditions Originating In The Perinatal Period	Accidental Drowning and Submersion	Congenital Malformations, Deformations and Chromosomal Abnormalities	Cancer (Malignant Neoplasms)	Heart Diseases (Including Acute Rheumatic Fever)	Congenital Malformations, Deformations and Chromosomal Abnormalities
	27 (45.8%)	2 (25.0%)	1 (16.7%)	1 (11.1%)	1 (25.0%)	28 (32.6%)
2	Congenital Malformations, Deformations and Chromosomal Abnormalities	Heart Diseases (Including Acute Rheumatic Fever)	Transport Accidents	Hypertensive Diseases	Accidental drowning and submersion	Certain Conditions Originating In The Perinatal Period
	25 (42.4%)	1(12.5%)	1 (16.7%)	1 (11.1%)	1 (25.0%)	27 (31.4%)
3	Cancer (Malignant Neoplasms)	Congenital Malformations, Deformations and Chromosomal Abnormalities	-	Diseases of Musculoskeletal System and Connective Tissue	-	Accidental drowning and submersion
	1 (1.7%)	1 (12.5%)		1 (11.1%)		4 (4.7%)
4	Heart Diseases (Including Acute Rheumatic Fever)	Exposure to Smoke, Fire and Flames	-	Congenital Malformations, Deformations and Chromosomal Abnormalities	-	Heart Diseases (Including Acute Rheumatic Fever)
	1 (1.7%)	1 (12.5%)		1 (11.1%)		3 (3.5%)
5	-	-	-	Transport Accidents	-	Cancer (Malignant Neoplasms)
6	-	-	-	1 (11.1%) Accidental drowning and submersion 1 (11.1%)	-	2 (2.3%) Transport Accidents 2 (2.3%)
7	-	-	-	-	-	Hypertensive Diseases 1 (1.2%)
8	-	-	-	-	-	Diseases of Musculoskeletal System and Connective Tissue 1 (1.2%)
9	-	-	-	-	-	Exposure to Smoke, Fire and Flames
						1 (1.2%)
10	-	-	-	-	-	
OTHER DISEASES	5 (8.5%)	3 (37.5%)	4 (66.7%)	3 (33.3%)	2 (50.0%)	17 (19.8%)
GRAND TOTAL	59 (100.0%)	8 (100.0%)	8 (100.0%)	9 (100.0%)	4 (100.0%)	86 (100.0%)

In 2015, 5.6 percent of total deaths were for the age-group (0-18) years old.

Leading Causes of Deaths for Population Aged 60 years and above (2011 - 2015)

In 2015, about 60 percent of total deaths were for the age 60 years and above and the top five leading causes of deaths were comprised Non-Communicable Diseases: Cancer, Heart Diseases, Diabetes Mellitus, Cerebrovascular Diseases; and Hypertensive Diseases.

No.	2011	2012	2013	2014	2015
1	Cancer (Malignant Neoplasms)	Cancer (Malignant Neoplasms)	Cancer (Malignant Neoplasms)	Cancer (Malignant Neoplasms)	Cancer (Malignant Neoplasms)
	157 (22.1%)	147 (21.8%)	169 (20.5%)	182 (20.5%)	178 (19.3%)
2	Heart Diseases (Including Acute Rheumatic Fever)	Diabetes Mellitus	Heart Diseases (Including Acute Rheumatic Fever)	Heart Diseases (Including Acute Rheumatic Fever)	Heart Diseases (Including Acute Rheumatic Fever)
	107 (15.0%)	87 (12.9%)	105 (12.7%)	133 (15.0%)	115 (12.5%)
4	Diabetes Mellitus	Heart Diseases (Including Acute Rheumatic Fever)	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus
	88 (12.4%)	81 (12.0%)	98 (11.9%)	95 (10.7%)	94 (10.2%)
3	Cerebrovascular Diseases	Cerebrovascular Diseases	Cerebrovascular Diseases	Cerebrovascular Diseases	Cerebrovascular Diseases
	61 (8.6%)	45 (6.7%)	60 (7.3%)	76 (8.5%)	66 (7.1%)
5	Unspecified	Bronchitis, Chronic and Unspecified Emphysema & Asthma	Hypertensive Diseases	Hypertensive Diseases	Influenza and Pneumonia
	45 (6.3%)	35 (5.2%)	57 (6.9%)	50 (5.6%)	62 (6.7%)
6	Hypertensive Diseases	Hypertensive Diseases	Bronchitis, Chronic and Unspecified Emphysema & Asthma	Influenza and Pneumonia	Bronchitis, Chronic and Unspecified Emphysema & Asthma
	32 (4.5%)	34 (5.1%)	50 (6.1%)	48 (5.4%)	39 (4.2%)
7	Septicaemia	Influenza and Pneumonia	Influenza and Pneumonia	Bronchitis, Chronic and Unspecified Emphysema & Asthma	Hypertensive Diseases
	23 (3.2%)	26 (3.9%)	29 (3.5%)	38 (4.3%)	35 (3.8%)
8	Senility Without Mention of Psychosis	Septicaemia	Senility Without Mention of Psychosis	Septicaemia	Septicaemia
	19 (2.7%)	16 (2.4%)	23 (2.8%)	29 (3.3%)	31 (3.3%)
9	Influenza and Pneumonia	Senility Without Mention of Psychosis	Septicaemia	Senility Without Mention of Psychosis	Senility Without Mention of Psychosis
	12 (1.7%)	9 (1.3%)	22 (2.7%)	21 (2.4%)	26 (2.8%)
10	Bronchiectasis	Viral Hepatitis	Diseases of Skin and Subcutaneous Tissue	Tuberculosis	Tuberculosis
	10 (1.4%)	8 (1.2%)	11 (1.3%)	8 (0.9%)	8 (0.8%)
OTHERS	158 (22.2%)	185 (27.5%)	201 (24.4%)	209 (23.5%)	266 (28.9%)
GRAND TOTAL	712 (100.0%)	673 (100.0%)	825 (100.0%)	889 (100.0%)	920 (100.0%)

Health Services

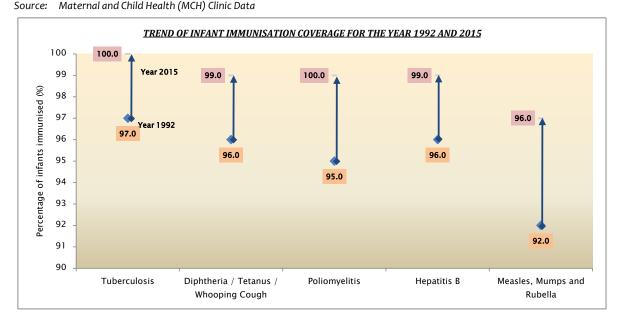
The Department of Health Services, Ministry of Health is responsible for providing public health services in the country. The mission of the department is to promote well-being and prevent ill health, through various activities and programmes that have been developed and established under three main services: Community Health Services, Environmental Health Services, and Scientific Services.

WORKLOAD INDIC	TORS	2011	2012	2013	2014	2015
1. Ante Natal attendances		44,749	42,187	44,418	44,812	46,459
2. Post Natal attendances		8,698	10,312	10,167	9,188	9,955
3. Child (<5) attendances		106,377	185,379	94,501	80,968	82,653
4. General O/P attendances in Heal	ch Centres / Clinics	475,068	467,792	445,127	467,792	423,575
- Extended Hours + After Office	lours Services	78,628	75,301	76,638	75,301	63,818
5. No. of students medically exami	ned (Year 1, 4 & 8)	13,820	12,616	17,728	12,515	12,911
6. No. of students screened (Year 1	3, 4, 6 & 8)	29,160	33,228	27,270	27,088	26,242

Over the years, immunisation coverage has been consistently above 95.0 percent for all vaccinations in the programme which met the targets set by the WHO. In 2003, it was made compulsary in line with the Infectious Disease Order for all children in Brunei Darussalam to be vaccinated according to the Expanded Program of Immunisation. The success of this programme is one of the factors that contributed to the progression of Brunei Darussalam in achieving one of the health objectives under the United Nations Millennium Development Goal for reduction in child mortality.

IMMUNISATION COVERAGE	2011	2012	2013	2014	2015
% of infants immunised against					
- Tuberculosis (at birth)	96.0	95-4	100.0	100.0	100.0
- Diphtheria/Tetanus/Whooping Cough (Tetract-HIB)3	97.0	95-4	99.6	99.0	99.0
- Poliomyelitis IPV3	100.0	99.0	99.1	99.0	100.0
- Hepatitis B3	93.0	95.8	97.9	99.5	99.0
- Measles, Mumps and Rubella 1 (MMR1)	91.0	98.6	96.0	97.0	96.0

Note: Red text - Millennium Development Goals (MDGs) Indicators



Maternal and Child Health

ANTENATAL REGISTRATION (2013-2015)				
No. of Pregnant Women Registered	2013	2014	2015	
Maternal and Child Health (MCH) Clinic, Ministry of Health	6,153	6,404	6,308	
Obstetrics and Gynaecology (O&G) Department, RIPAS (Tertiary) Hospital	272	236	315	
MRS Clinic, Ministry of Defence	127	113	92	
Jerudong Park Medical Centre (JPMC) *	238	408	380	
TOTAL	6,790	7,161	7,095	
National Live Births	6,680	6,891	6,699	
% COVERAGE AT LEAST ONE VISIT	101.6%	103.9%	105.9%	

Note: * - Private Hospital

PREVALENCE OF ANAEMIA AMONG PREGNANT WOMEN AT FIRST ANTENATAL CLINIC PRESENTATION (2015)

	MATERNAL AND CHILD HEALTH (MCH) CLINIC DATA					
	BRUNEI MUARA	BELAIT	TUTONG	TEMBURONG	TOTAL	
NO. OF WOMEN WITH DOCUMENTED RESULT	4,491	834	588	117	6,030	
NORMAL [11 g/dl & above]	3,869	669	483	99	5,120	
MILD ANAEMIA [10 to 10.9 g/dl]	416	120	70	9	615	
MODERATE ANAEMIA [7 to 9.9 g/dl]	199	44	34	9	286	
SEVERE ANAEMIA [6.9 g/dl or less]	7	1	1	0	9	
TOTAL NO. OF PREGNANT WOMEN WITH ANAEMIA	622	165	105	18	910	
% ANAEMIA	13.8	19.8	17.9	15.4	15.1	

Note: - All pregnant women in Brunei Darussalam are routinely screened for anaemia at the first antenatal visit.

- In 2015, 6308 pregnant women were registered in MCH clinics throughout the country.

- Of these, 6030 (95.6%) had their full blood count (FBC) results documented.

- 4.9% of these women were found to have anaemia at the first antenatal clinic presentation.

Source: Maternal and Child Health (MCH) Clinic Data

PREVALENCE OF ANAEMIA AMONG PREGNANT WOMEN AT FIRST ANTENATAL CLINIC PRESENTATION (2014-2015)

	2014			2015		
MRS CLINIC DATA (MINISTRY OF DEFENCE)	NO. OF PREGNANT WOMEN REGISTERED	NO. OF PREGNANT WOMEN DOCUMENTED TO HAVE ANAEMIA	% ANAEMIA	NO. OF PREGNANT WOMEN REGISTERED	NO. OF PREGNANT WOMEN DOCUMENTED TO HAVE ANAEMIA	% ANAEMIA
BERAKAS	50	7	14.0	44	5	11.4
MUARA	6	0	0.0	0	0	0.0
PENANJONG	20	0	0.0	16	0	0.0
TUTONG	23	2	8.7	24	5	20.8
LUMUT	14	2	14.3	8	0	0.0
TOTAL	113	11	9.7	92	10	10.9

Source:

Maternal and Child Health (MCH) Clinic Data

REGISTERED LIVEBIRTHS BY BIRTH WEIGHT (2011 - 2015)

Birth Weight	NUMBER OF LIVEBIRTHS				
	2011	2012	2013	2014	2015
At Least 2500g	5,896	6,054	5,850	6,037	5,877
Less Than 2500g (LOW BIRTH WEIGHT)	798	834	791	819	791
- Less Than 1500g (VERY LOW BIRTH WEIGHT)	102	124	88	100	97
- Less Than 1000g (EXTREMELY LOW BIRTH WEIGHT)	37	42	37	38	32
Not Known	30	21	39	35	31
TOTAL	6,724	6,909	6,680	6,891	6,699
% Low Birth Weight (Less Than 2500g)	11.9	12.1	11.8	11.9	11.8

Source:

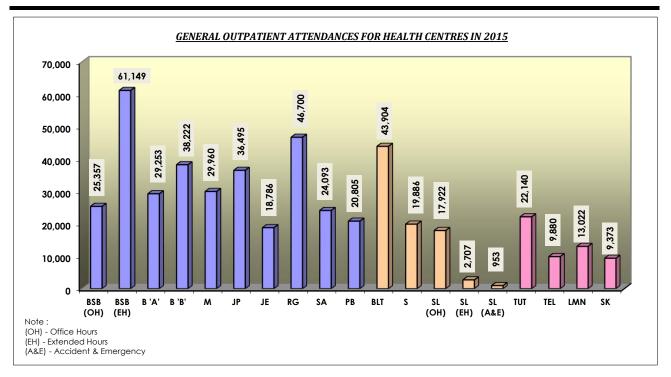
Birth, Death and Adoption Section, Immigration and National Registration Department, Ministry of Home Affairs

Age Group of Mother	2011	2012	2013	2014	2015
Under 15	3	7	7	5	4
15 - 19	244	268	221	197	195
20 - 24	1,142	1,074	1,097	1,083	987
25 - 29	2,134	2,201	2,124	2,212	2,233
30 - 34	1,913	2,031	1,886	2,042	1,939
35 - 39	992	1,043	1,044	1,079	1,064
40 - 44	274	266	279	254	264
45 - 49	19	18	20	16	13
50 above	0	1	1	2	o
unknown	3	0	1	1	o
TOTAL	6,724	6,909	6,680	6,891	6,699
Adolescent Fertility Rate (per 1,000 female population aged (15-19))	14.3	15.7	13.0	11.6	11.4
General Fertility Rate (per 1,000 female population aged (15-49))	58.8	59.9	57.5	58.9	57.0
Total Fertility Rate (per female population aged (15-49))	1.9	1.9	1.9	1.9	1.9

TOTAL NUMBER OF REGISTERED LIVEBIRTHS BY AGE OF MOTHER (2011 - 2015)

Source:

Birth, Death and Adoption Section, Immigration and National Registration Department, Ministry of Home Affairs



General Outpatient Attendances for Health Centres (2015)

BRUNEI MUARA HEALTH CENTRES

BSB	1	BSB Health Centre	BLT
B 'A'	1	Berakas 'A' Health Centre	S
B 'B'	1	Berakas 'B' Health Centre	SL
М	1	Muara Health Centre	
JP	1	Jubli Perak Health Centre	
JE	1	Jubli Emas Health Centre	
RG	1	PAP Hjh Muta-Wakkilah Hayatul Bolkiah Healt	h Centre
SA	:	PAP Hjh Rashidah Sa'adatul Bolkiah Health Ce	ntre

SL

BLT	:	Belait Health Centre
S	:	Seria Health Centre

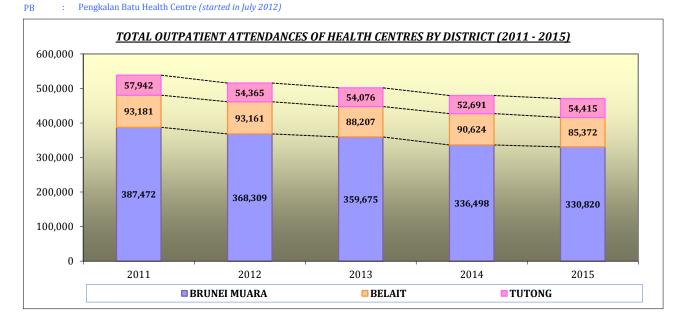
BELAIT HEALTH CENTRES

: Sungai Liang Health Centre

TUTONG HEALTH CENTRES

TUT	:	Tutong Health Centre
TEL	:	Telisai Health Centre
LMN	:	Lamunin Health Centre
SK.	1.1	Sungai Kalugos Health Co

ungai Kelugos Health Centre



OUTPATIENT ATTENDANCES FOR TRAVELLING CLINIC SERVICE (2011 - 2015)

Travelling Clinic is a service that has been established since 1930s to provide basic health care to citizens or residents who live in the remote areas of the country. In its early days, travelling clinic which was usually operated by a trained community health nurse or midwife would travel by boat. Over time, with the development of land infrastructure, many of the remote areas are now accessible by road. Citizens and residents living in some of the remote villages can now access primary health care within their catchment areas.

YEAR		Buau			Sg Mau		Total			
IEAK	Male	Female	Total	Male	Female	Total	Male	Female	Total	
2011	39	58	97	24	57	81	63	115	178	
2012	43	55	98	44	81	125	87	87 136		
2013	50	63	113	36	60	96	86	123	209	
2014	51	59	110	-	-	-	51	51 59		
2015	43	52	95	-	-	-	86	123	209	

Note: Sg Mau Health Clinic has been closed since November 2013. The facility is used by Emergency Medical Ambulance Services (EMAS), SSB Hospital during flood season.

OUTPATIENT ATTENDANCES FOR FLYING MEDICAL SERVICE (2011 - 2015)

Flying Medical Services started its service of providing medical care to rural areas in Tutong and Belait Districts in 1964. The service was initially mainly provided by nursing staff with occasional visits by the doctors. It finally became a doctorled service in 1998. Currently, the service is provided by doctors and nurses from the Division of Primary Healthcare Services from the Department of Health Services, Ministry of Health

YEAR	BEL	AIT	TUT	Total		
IEAK	Kg Sukang	Kg Melilas	Kg Supon Besar	Kg Mapol	Totai	
2011	297	171	189	235	892	
2012	156	74	59	107	396	
2013	207	107	-	-	314	
2014	159	201	-	-	360	
2015	152	154	-	-	306	

Note: Flying Medical Service to Tutong District at Kg Supon Besar and Kg Mapol was stopped in October 2012 because of a better road access which the provision of health services has been taken over by Tutong District Health Services.

Notifiable Infectious Diseases (2015)

Notification of infectious diseases is required by Brunei Darussalam's law under the 'Infectious Diseases Act'. A total of 57 infectious diseases are listed as notifiable in the country. All notifications must be reported to the Disease Control Division at the Department of Health, Ministry of Health.

DISEASES	ВМ	TUT	TEM	КВ	unknown	TOTAL
FOOD AND WATER BORNE DISEASES						
Cholera	0	0	0	0	0	0
Dysentery (Shigella)	2	0	0	0	0	2
Food Poisoning	57	20	0	12	0	89
Gastroenteritis	6819	429	65	1424	0	8737 ⁽¹⁾
Hepatitis A	11	0	0	0	0	11
Para/Typhoid Fever	1	0	0	0	0	1
Salmonella Infection	32	3	0	7	0	42
Total	6922	452	65	1443	0	8882
PERSON TO PERSON TRANSMITTED DISEA	SES					
Chicken Pox	2,111	307	80	288	0	2786
Ebola Fever	0	0	0	0	0	0
Hand, Foot & Mouth Disease	666	135	33	458	0	1292
Influenza A	0	0	0	0	0	0
Influenza B	0	0	0	0	0	0
Influenza Others	0	0	0	0 0		0
Leprosy	0	0	0	0	0	0
Meningitis	0	0	0	0	0	0
Scarlet Fever	0	0	0	0	0	0
Severe Acute Respiratory Syndrome	0	0	0	0	0	0
Total	2,777	442	113	746	о	4078
VACCINE PREVENTABLE DISEASES						
Diphtheria	0	0	0	0	0	0
Hepatitis B	0	0	0	0	0	0
Measles	0	0	0	4	0	4
Mumps	1	1	0	1	0	3
Pertussis	4	0	0	1	0	5
Acute Flaccid Paralysis (AFP)	0	0	0	0	0	0
Rubella	0	0	0	0	0	0
Smallpox	0	0	0	0	0	0
Tetanus	0	0	0	0	0	0
Tetanus Neonatorum	0	0	0	0	0	0
Tuberculosis	149	22	11	30	о	212
Total	154	23	11	36	0	224

Note:

(1) - Even though gastroenteritis was notifiable disease in Brunei Darussalam, there were under reporting of gastroenteritis cases. During September 2014 with increasing awareness of viral gastroenteritis outbreak, more gastroenteritis notifications were reported. After the outbreak, the number of gastroenteritis cases became stable and continued reporting as the baseline level.

DISEASES	BM	TUT	TEM	KB	unknown	TOTAL
SEXUALLY TRANSMITTED DISEASES						
AIDS	0	0	0	0	0	0
Chancroid	0	0	0	0	0	0
Chlamydial Infection	174	15	28	1	1	219
Genital Herpes	2	0	0	0	0	2
Gonococcal Infections	56	5	0	5	1	67
Hepatitis C	0	0	0	0	0	0
HIV * (Local only)	15	0	2	11	0	28
Non Gonococcal Urethritis	1	0	0	0	0	1
Opthalmia Neonatorum	0	0	0	0	0	0
Syphilis (All forms)	19	1	1	0	0	21
Other STI - Genital Warts, Trichomonas Vaginalis	31	1	0	3	0	35
Total	298	22	31	20	2	373
VECTOR BORNE DISEASES						
Chikugunya	1	0	0	0	0	1
Dengue Fever	182	98	17	19	0	316
Dengue Haemorhagic Fever	1	0	0	0	0	1
Filariasis	0	1	0	0	0	1
Leptospirosis	0	1	0	0	0	1
Malaria	2	3	0	3	0	8
Plague	0	0	0	0	0	0
Typhus	0	0	0	0	0	0
West Nile Fever	0	0	о	0	0	0
Yellow Fever	0	0	0	0	0	0
Total	186	103	17	22	о	328
ZOONOTIC DISEASES						
Anthrax	0	0	0	0	0	0
Bovine Spongiform Encephalitis	0	0	0	0	0	0
Nipah Virus	0	0	0	0	0	0
Rabies	0	0	0	0	0	0
Total	0	0	0	0	0	ο
OTHER INFECTIOUS DISEASES						
Conjunctivitis (Chlamydia)	3	0	0	0	0	3
Encephalitis	0	0	0	0	0	0
Japanese Encephalitis	0	1	0	0	0	1
Puerperal Infection	0	0	0	0	0	0
Viral Encephalitis	0	0	0	0	0	0
Viral Hepatitis	0	0	0	0	0	0
Total	3	1	О	О	о	4
GRAND TOTAL	5342	884	269	1601	1	8097

Notifiable Infectious Diseases (2015) (cont'd)

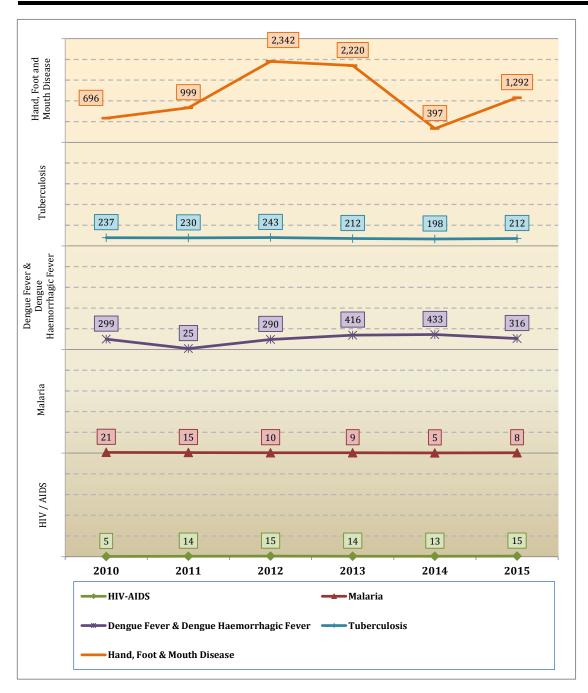
Note:

* Indicate incidence of AIDS/HIV cases amongst locals only. BM - Brunei Muara District

TUT - Tutong District

Source: Disease Control Division, Ministry of Health

TEMB - Temburong District KB - Belait District



Note:

Possible causes of decrease in Dengue cases in 2011 are:

- The control measures done in 2010 especially in Kg Ayer might still be effective;

- There is a possibility of a relationship between dengue diseases with a three to five year cyclical pattern. This pattern was seen in neighbouring countries. Brunei may now be in low cycle

Mortality due to Cancer for the Year 2015

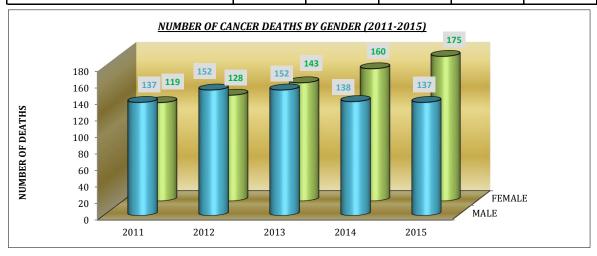
The top three causes of cancer deaths among male in Brunei Darussalam for 2015 were Trachea, Bronchus and Lung; Liver and Intrahepatic Bile Ducts; and Prostate; and Non-Hodgkin's Lymphoma; and for female cancer deaths were Breast; Trachea, Bronchus and Lung; and Cervix Uteri; and Ovary.

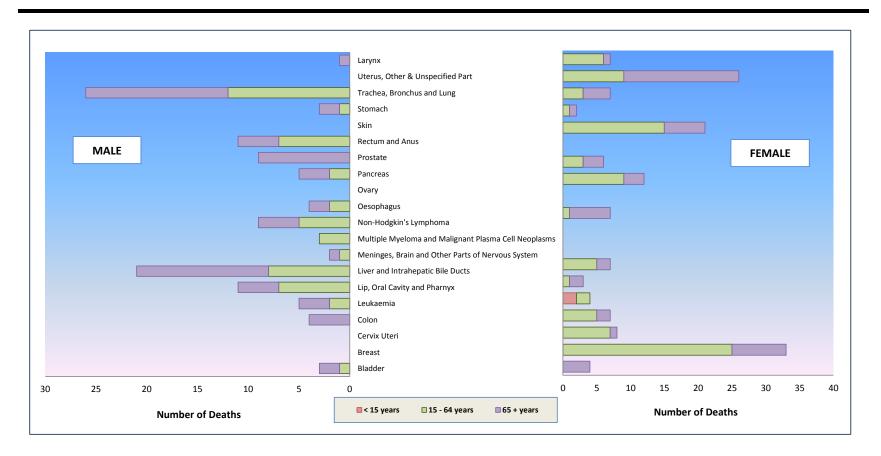
TYPE OF CANCER	MALE	FEMALE	TOTAL
Trachea, Bronchus and Lung	26	26	52
Breast	0	33	33
Liver and Intrahepatic Bile Ducts	21	7	28
Stomach	3	7	10
Rectum and Anus	11	21	32
Non-Hodgkin's Lymphoma	9	7	16
Colon	4	7	11
Leukaemia	5	4	9
Prostate	9		9
Cervix Uteri		8	8
Ovary		12	12
Lip, Oral Cavity and Pharynx	11	3	14
Bladder	3	4	7
Pancreas	5	6	11
Oesophagus	4	0	4
Other and Unspecified Parts of Uterus		7	7
Meninges, Brain and Other Parts of Central Nervous System	2	0	2
Multiple Myeloma and Malignant Plasma Cell Neoplasms	3	0	3
Skin	0	2	2
Larynx	1	0	1
Remainder	20	21	41
TOTAL	137	175	312

Note: Top three leading causes of cancer death for male

YEAR	2011	2012	2013	2014	2015
TOTAL NUMBER OF CANCER DEATHS	256	280	295	298	312

female





Cancer Deaths by Gender, Type and Age-Groups in Brunei Darussalam (2015)

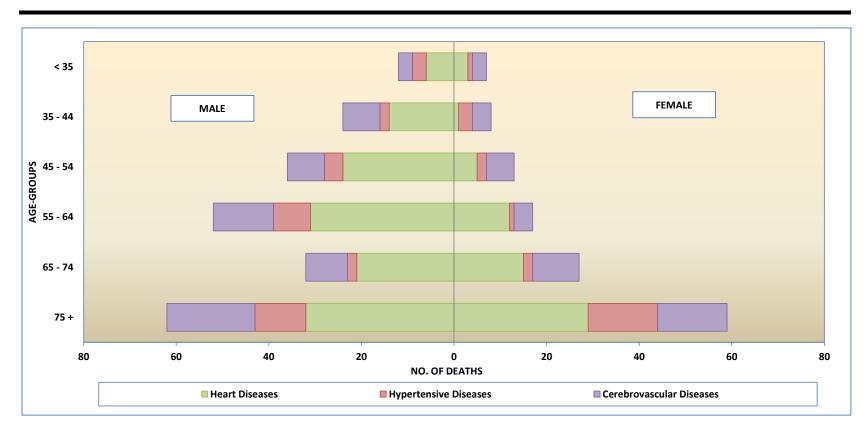
Trend in Leading Cancer Deaths in Brunei Darussalam (2011 - 2015)

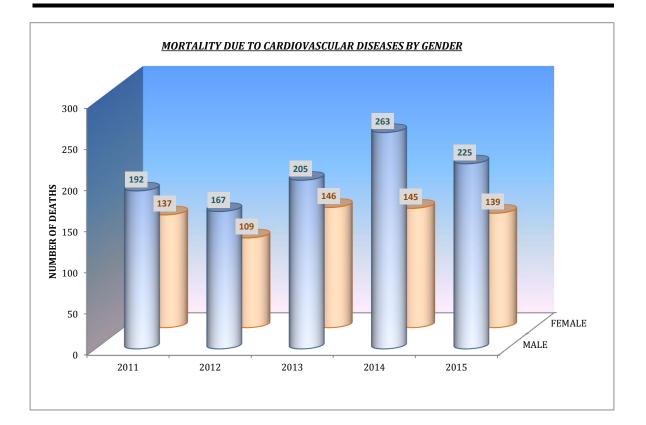
No.	2011	2012	2013	2014	2015	
1	Trachea, Bronchus and Lung	Trachea, Bronchus and Lung	Trachea, Bronchus and Lung	Trachea, Bronchus and Lung	Trachea, Bronchus and Lung	
	50 (19.5%)	44 (15.7%)	64 (21.7%)	62 (20.8%)	52 (16.7%)	
2	Rectum and Anus	Rectum and Anus	Rectum and Anus	Breast	Breast	
	28 (10.9%)	30 (10.7%)	30 (10.2%)	30 (10.1%)	33 (10.6%)	
3	Breast	Liver and Intrahepatic Bile Duct	Liver and Intrahepatic Bile Duct	Liver and Intrahepatic Bile Duct	Rectum and Anus	
	23 (9.0%)	22 (7.9%)	21 (7.1%)	23 (7.7%)	32 (10.3%)	
4	Stomach	Stomach	Breast	Stomach	Liver and Intrahepatic Bile Duct	
	18 (7.0%)	19 (6.8%)	20 (6.8%)	21 (7.0%)	28 (9.0%)	
5	Lip, Oral Cavity and Pharynx Breast		Colon	Rectum and Anus	Non-Hodgkin's Lymphoma	
	13 (5.1%)	19 (6.8%)	17 (5.8%)	18 (6.0%)	16 (5.1%)	
6	Prostate	Colon	Lip, Oral Cavity and Pharynx	Non-Hodgkin's Lymphoma	Lip, Oral Cavity and Pharynx	
	13 (5.1%)	17 (6.1%)	13 (4.4%)	18 (6.0%)	14 (4.5%)	
7	Liver and Intrahepatic Bile Duct	Pancreas	Ovary	Colon	Ovary	
	12 (4.7%)	13 (4.6%)	13 (4.4%)	17 (5.7%)	12 (3.8%)	
8	Colon	Prostate	Leukaemia	Leukaemia	Colon	
	10 (3.9%)	12 (4.3%)	13 (4.4%)	15 (5.0%)	11 (3.5%)	
9	Non-Hodgkin's Lymphoma	Lip, Oral Cavity and Pharynx	Cervix Uteri	Prostate	Pancreas	
	9 (3.5%)	11 (3.9%)	11 (3.7%)	12 (4.0%)	11 (3.5%)	
10	Leukaemia	Cervix Uteri	Non-Hodgkin's Lymphoma	Cervix Uteri	Stomach	
	9 (3.5%)	8 (2.9%)	11 (3.7%)	11 (3.7%)	10 (3.2%)	
OTHERS	71 (27.7%)	85 (30.4%)	82 (27.8%)	71 (23.8%)	93 (29.8%)	
GRAND TOTAL	256 (100.0%)	280 (100.0%)	295 (100.0%)	298 (100.0%)	312 (100.0%)	

											AGE-GI	ROUP IN	YEARS						
	ю	D-1	IO CODE	TYPE OF DISEASE	Ŷ	35	35 -	44	45	- 54	55 ·	64	65 - 74		75+		TOTAL		
					м	F	м	F	м	F	м	F	м	F	м	F	М	F	т
1	lo	00 -	109, 120 - 152	I20 - I52 Heart Diseases		3	14	1	24	5	31	12	21	15	32	29	128	65	193
	i		100 - 109	Acute Rheumatic Fever & Chronic Rheumatic Heart Diseases	0	0	0	0	0	о	0	3	0	0	о	0	0	3	3
	ii		120 - 125	Ischaemic Heart Diseases	3	0	13	1	22	3	26	9	17	7	26	16	107	36	143
			l21	Acute Myocardial Infarction	2	0	8	о	15	1	15	3	13	5	13	7	66	16	82
			120, 122 - 125	Other Ischaemic Diseases	1	0	5	1	7	2	11	6	4	2	13	9	41	20	61
	iii		126 - 152	Diseases of Pulmonary Circulation & Other Forms of Heart Diseases	3	3	1	о	2	2	5	0	4	8	6	13	21	26	47
2			l10 - l15	Hypertensive Diseases	3	1	2	3	4	2	8	1	2	2	11	15	30	24	54
3		I	60 - 169	Cerebrovascular Diseases	3	3	8	4	8	6	13	4	9	10	19	15	60	42	102
4		ľ	170 - 198	Other Diseases of the Circulatory System	0	0	о	2	о	1	1	1	1	1	5	3	7	8	15
			170	Atherosclerosis	0	0	0	о	0	о	0	о	0	0	о	о	0	0	ο
			171 - 198	Others	0	ο	0	2	0	1	1	1	1	1	5	3	7	8	15
1 t	04		100 - 198	All Cardiovascular Diseases	12	7	24	10	36	14	53	18	33	28	67	62	225	139	364

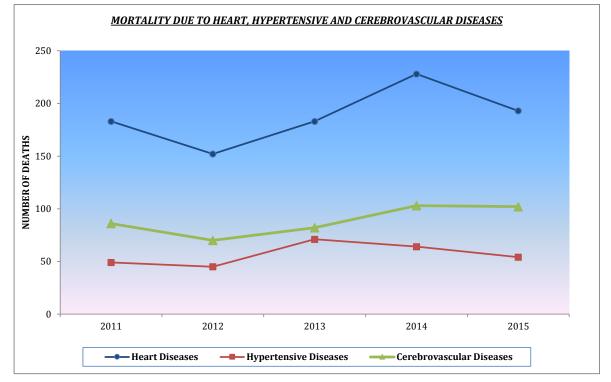
Mortality due to Cardiovascular Diseases for the Year 2015 (Based on ICD-10)

Mortality due to Cardiovascular Diseases by Age-Groups and Gender in Brunei Darussalam (2015)





Mortality Trend of Cardiovascular Diseases (2011 - 2015)



Age Standardised Mortality Rate - Noncommunicable Diseases (NCDs) (2013-2015)

			Age	Standardize	d Mortality I	Rate per 100	,000			
AGE-GROUP		2013			2014		2015			
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
0 - 4	8.0	7.5	7.8	7.4	6.8	7.1	10.4	8.4	9.4	
5 - 9	0.5	0.6	0.5	1.6	2.9	2.2	1.6	1.7	1.7	
10 - 14	2.3	3.0	2.7	0.5	0.5	0.5	0.0	2.6	1.2	
15 - 19	2.8	1.5	2.2	0.5	1.5	1.0	1.4	0.5	1.0	
20 - 24	2.2	2.8	2.5	2.7	1.4	2.1	2.3	2.4	2.3	
25 - 29	3.4	1.7	2.6	4.2	1.7	3.0	3.4	3.0	3.2	
30 - 34	4.1	4.2	4.2	4.4	3.4	3.9	4.7	3.4	4.1	
35 - 39	6.4	2.1	4.3	10.2	5.1	7.7	6.0	4.2	5.1	
40 - 44	12.1	7.1	9.7	14.0	8.6	11.4	10.1	12.2	11.1	
45 - 49	13.6	7.7	10.8	18.0	11.3	14.8	16.7	14.0	15.4	
50 - 54	25.9	23.8	24.9	20.8	16.6	18.8	16.7	16.3	16.5	
55 - 59	25.8	28.0	26.8	30.5	16.4	23.7	30.6	28.6	29.7	
60 - 64	41.5	27.9	34.7	32.7	32.6	32.7	39.6	30.5	35.1	
65 - 69	53.9	42.9	48.3	58.3	40.4	49.2	48.2	41.3	44.6	
70 - 74	63.3	49.7	56.2	57.2	50.6	53.8	66.3	55.7	60.9	
75 - 79	101.3	79.2	89.4	77.1	67.9	72.2	78.1	59.9	68.1	
80 - 84	75.1	68.2	71.6	78.5	57.3	66.7	67.1	52.8	59.1	
85 +	63.0	69.3	66.1	89.4	84.4	86.9	60.5	57.7	59.0	
ALL AGES	505.1	427.3	465.3	507.9	409.4	457.6	463.7	395.2	427.7	

Note:

Noncommunicable Diseases include Malignant Neoplasms; Other Neoplasms; Diabetes Mellitus; Endocrine Disorders; Neuropsychiatric Conditions; Sense Organ Diseases; Cardiovascular Diseases; Respiratory Diseases; Digestive Diseases; Genitourinary Diseases; Skin Diseases; Musculoskeletal Diseases; Congenital Anomalies; Congenital Anomalies; Oral Conditions; and Ill-defined Conditions.

ASMR: Age-standardised mortality rate per 100,000 per year. ASMR derived by the direct method using the 'World Standard Population'

Age Standardised Mortality Rate - Malignant Neoplasms (Cancer) (2013-2015)

			Age	Standardize	d Mortality I	Rate per 100	,000			
AGE-GROUP		2013			2014		2015			
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
0 - 4	0.5	0.6	0.6	0.5	0.0	0.3	0.0	0.6	0.3	
5 - 9	0.5	0.0	0.3	0.0	0.6	0.3	0.0	0.0	0.0	
10 - 14	0.0	1.0	0.5	0.5	0.0	0.2	0.0	0.5	0.2	
15 - 19	1.4	0.0	0.7	0.0	1.5	0.7	0.0	0.5	0.2	
20 - 24	0.0	1.9	0.9	1.3	0.0	0.7	0.9	0.5	0.7	
25 - 29	0.0	0.0	0.0	0.4	0.0	0.2	0.4	0.9	0.6	
30 - 34	0.7	1.7	1.2	0.0	1.3	0.6	1.5	2.1	1.8	
35 - 39	0.8	0.9	0.8	1.6	1.7	1.6	1.5	1.3	1.4	
40 - 44	2.8	1.7	2.3	2.7	4.9	3.8	0.4	5.3	2.8	
45 - 49	3.1	3.4	3.2	2.1	5.9	3.9	2.0	5.3	3.6	
50 - 54	6.9	9.1	8.0	7.2	9.0	8.1	5.6	8.6	7.0	
55 - 59	11.0	15.2	13.0	5.2	7.7	6.4	9.6	13.8	11.6	
60 - 64	12.2	8.6	10.4	7.7	13.7	10.7	8.3	12.8	10.5	
65 - 69	18.0	16.3	17.1	18.5	12.6	15.5	13.5	16.4	15.0	
70 - 74	17.1	18.4	17.8	17.1	12.9	14.9	23.1	18.3	20.6	
75 - 79	19.0	14.1	16.4	17.5	20.3	19.0	17.4	10.7	13.7	
80 - 84	17.1	10.2	13.6	12.5	10.9	11.6	10.2	10.9	10.6	
85 +	16.4	6.3	11.3	18.9	13.9	16.4	11.3	6.3	8.6	
ALL AGES	127.4	109.3	118.0	113.7	116.8	114.8	105.7	114.6	109.3	

Note:

ASMR: Age-standardised mortality rate per 100,000 per year.

Age Standardised Mortality Rate - Cardiovascular Disease (2013-2015)

			Age	Standardize	d Mortality I	Rate per 100	,000				
AGE-GROUP		2013			2014			2015			
	Male	Female	Total	Male	Female	Total	Male	Female	Total		
0 - 4	0.0	1.2	0.6	0.5	0.6	0.5	0.0	1.1	0.5		
5 - 9	0.0	0.0	0.0	0.5	0.0	0.3	0.5	0.0	0.3		
10 - 14	0.0	0.0	0.0	0.0	0.5	0.2	0.0	0.5	0.2		
15 - 19	0.5	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0		
20 - 24	0.9	0.0	0.5	0.9	0.0	0.5	0.5	0.5	0.5		
25 - 29	1.5	0.4	1.0	1.5	0.4	1.0	1.9	0.4	1.2		
30 - 34	1.9	1.7	1.8	2.6	0.0	1.4	1.8	0.8	1.4		
35 - 39	2.0	0.9	1.4	4.7	1.7	3.3	2.3	0.8	1.6		
40 - 44	6.5	1.7	4.1	7.8	1.2	4.6	7.0	3.3	5.2		
45 - 49	4.4	1.4	3.0	9.2	0.5	5.0	8.6	2.6	5.7		
50 - 54	14.8	5.6	10.4	7.7	4.0	5.9	6.4	3.8	5.2		
55 - 59	6.6	5.2	5.9	14.0	4.9	9.6	12.0	4.6	8.4		
60 - 64	12.2	7.2	9.7	14.7	5.9	10.3	16.5	5.5	11.1		
65 - 69	9.5	7.1	8.3	18.5	11.7	15.0	16.9	8.6	12.6		
70 - 74	25.1	12.0	18.3	19.1	12.0	15.4	13.1	16.3	14.7		
75 - 79	34.2	29.3	31.6	31.6	23.3	27.1	33.6	19.7	26.0		
80 - 84	28.4	27.3	27.9	40.9	27.3	33.4	26.2	11.8	18.2		
85 +	18.9	36.5	27.7	31.5	36.5	34.0	16.4	28.3	22.9		
ALL AGES	167.2	137.5	152.3	205.7	130.4	167.5	163.6	108.8	135.6		

Note:

ASMR: Age-standardised mortality rate per 100,000 per year.

Age Standardised Mortality Rate - Diabetes Mellitus (2013-2015)

			Age	Standardize	d Mortality I	Rate per 100	,000				
AGE-GROUP		2013			2014			2015			
	Male	Female	Total	Male	Female	Total	Male	Female	Total		
0 - 4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5 - 9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20 - 24	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0		
25 - 29	0.0	0.0	0.0	1.1	0.9	1.0	0.0	0.4	0.2		
30 - 34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
35 - 39	0.8	0.0	0.4	0.8	0.4	0.6	0.0	0.8	0.4		
40 - 44	0.4	1.3	0.8	1.2	0.8	1.0	1.2	1.6	1.4		
45 - 49	1.8	0.0	0.9	1.7	1.4	1.5	2.0	2.2	2.1		
50 - 54	1.9	2.0	1.9	3.2	2.0	2.6	2.6	2.4	2.5		
55 - 59	4.4	4.1	4.2	5.7	1.6	3.7	6.7	4.1	5.4		
60 - 64	7.9	6.4	7.2	3.8	4.6	4.2	8.3	5.5	6.9		
65 - 69	7.4	8.2	7.8	9.2	7.2	8.2	6.8	6.2	6.5		
70 - 74	11.0	6.4	8.6	4.0	10.1	7.2	13.1	4.8	8.8		
75 - 79	15.2	13.0	14.0	16.4	5.1	10.3	7.6	7.2	7.4		
80 - 84	4.5	10.2	7.4	8.0	3.6	5.6	6.8	4.5	5.6		
85 +	5.0	5.0	5.0	15.1	8.8	12.0	7.6	5.2	6.3		
ALL AGES	60.3	56.7	58.4	70.6	46.5	58.2	62.5	45.0	53.5		

Note:

ASMR: Age-standardised mortality rate per 100,000 per year.

Age Standardised Mortality Rate - Respiratory Diseases (2013-2015)

			Age	Standardize	d Mortality I	Rate per 100	,000		
AGE-GROUP		2013			2014			2015	
	Male	Female	Total	Male	Female	Total	Male	Female	Total
0 - 4	0.5	0.0	0.3	0.5	0.6	0.5	0.0	1.1	0.5
5 - 9	0.5	0.0	0.3	0.0	0.0	0.0	0.0	0.6	0.3
10 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 - 24	0.9	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
25 - 29	0.4	0.0	0.2	0.0	0.0	0.0	0.4	0.9	0.6
30 - 34	1.1	0.0	0.6	0.4	0.0	0.2	0.0	0.4	0.2
35 - 39	0.0	0.0	0.0	0.8	0.4	0.6	0.4	0.8	0.6
40 - 44	0.0	0.0	0.0	0.4	0.4	0.4	1.2	0.4	0.8
45 - 49	0.0	0.0	0.0	0.8	1.4	1.1	2.4	1.8	2.1
50 - 54	0.0	1.5	0.7	0.5	0.0	0.2	0.9	1.0	0.9
55 - 59	0.0	0.6	0.3	1.0	0.5	0.8	0.5	1.0	0.7
60 - 64	2.1	2.1	2.1	0.6	0.7	0.6	4.1	3.7	3.9
65 - 69	7.4	3.1	5.2	3.7	1.8	2.7	7.6	9.3	8.5
70 - 74	7.0	5.5	6.2	7.0	6.4	6.7	6.0	6.7	6.4
75 - 79	12.7	7.6	9.9	5.8	5.1	5.4	7.6	16.1	12.3
80 - 84	12.5	6.8	9.7	8.0	4.5	6.1	8.0	19.1	14.2
85 +	15.1	6.3	10.7	10.1	10.1	10.1	21.4	13.6	17.2
ALL AGES	60.3	33.6	46.7	39.6	31.9	35.6	60.4	76.5	69.1

Note:

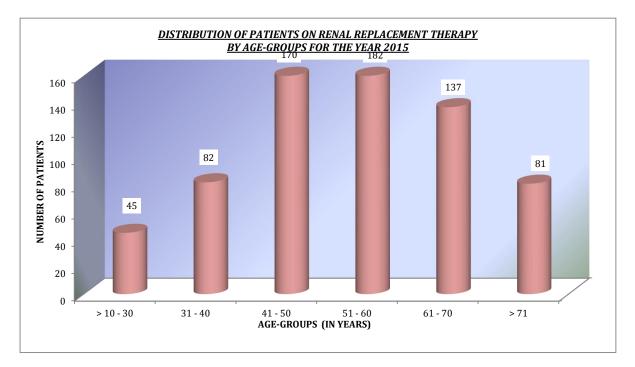
ASMR: Age-standardised mortality rate per 100,000 per year.

Renal Services

	N	O. OF PA	TIENTS A	TENDIN	G FOR REI	NAL REPL	ACEMEN	T THERAF	γ
DIALYSIS CENTRE / UNIT	2013				2014		2015		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Rimba Dialysis Centre	115	125	240	129	119	248	123	121	244
Kiarong Dialysis Centre	30	34	64	28	32	60	28	32	60
Dialysis Centre RIPAS Hospital	53	52	105	69	63	132	54	58	112
Dialysis Centre SSB Hospital, Belait	52	41	93	50	35	85	50	33	83
Tutong Dialysis Centre	21	16	37	31	20	51	32	24	56
Continuous Ambulatory Peritoneal Dialysis	19	26	45	21	32	53	29	38	67
Transplant Unit	23	13	36	26	13	39	31	14	45
Dialysis Centre PIHM Hospital, Temburong	11	19	30	17	13	30	13	14	27
TOTAL	324	326	650	371	327	698	360	334	694

Source:

Renal Registry Unit, Department of Renal Services, Ministry of Health

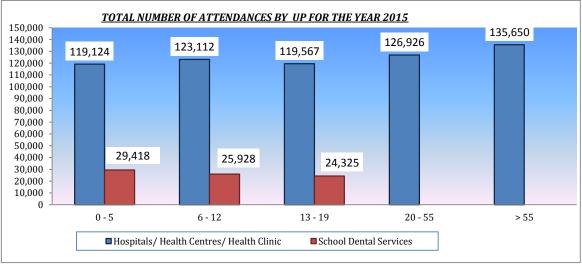


Dental Health Services

TOTAL AT	TOTAL ATTENDANCE IN HOSPITALS/HEALTH CENTRES/ HEALTH CLINIC BY AGE GROUP FOR (2011-2015)											
YEAR	0 - 5	6 - 12	13 - 19	20 -55	>55	TOTAL						
2011	8,440	17,131	17,614	64,125	11,814	119,124						
2012	6,889	16,613	17,672	69,115	12,823	123,112						
2013	5,399	13,800	15,314	71,036	14,018	119,567						
2014	5,457	14,526	15,499	76,631	14,813	126,926						
2015	5,678	15,208	17,882	79,328	17,554	135,650						

TOTAL ATTENDANCE IN SCHOOL DENTAL SERVICES BY AGE GROUP FOR (2011-2015)

YEAR	0 - 5	6 - 12	13 - 19	TOTAL
2011	2,428	26,956	34	29,418
2012	2,401	23,470	57	25,928
2013	2,070	22,236	19	24,325
2014	2,037	23,722	15	25,774
2015	2,672	19,392	127	22,191



For more details please go to:

0ral Health Information Booklet, Ministry of Health (http://www.moh.gov.bn/SitePages/Downloads.aspx)

Nutritional Status

	SCHOOL HEALTH (YEAR I, 4, 6 and 7 only)	2011	2012	2013	2014	2015
1.	Normal weight	49.7	43.7	55.6	42.8	59.6
2.	Overweight	11.5	12.1	13.9	14.8	15.3
3.	Obese	16.9	16.9	17.3	17.6	18.6
4.	Severe Underweight	8.2	11.3	4.0	1.9	1.3
5.	Underweight	13.8	15.9	9.3	6.7	5.2

PERCENTAGE OF STUDENTS SCREENED FOR WEIGHT STATUS (2011 - 2015)

Note :

In 2015, the Total Number of School Target Population is 26,242 for Year 1, 4, 6 & 7. Source :

School Health Services, Ministry of Health

PERCENTAGE OF CHILDREN ATTENDING NUTRITIONAL CONSULTATION BY WEIGHT STATUS (2011 - 2015)

	MOTHER & CHILD HEALTH CLINICS (BELOW 5 YEARS)	2011	2012	2013	2014	2015
1.	Underweight	46.9	53.7	50.9	56.5	60.9
2.	Overweight	45.8	41.9	44.9	37.4	36.8
3.	Others *	7.3	4.4	4.2	6.1	2.2
Т	TOTAL NUMBER OF CASES	1,025	881	790	735	850

Note :

Others * include Healthy Eating, Low Birth Weight and Premature. Source :

Community Nutrition Unit, Ministry of Health

Occupational Health Division is responsible for the monitoring health and safety at the workplace. The activities are streamlined to include worker's health surveillance, workplace surveillance and industrial hygiene, training, information and advisory functions as well as in the areas of compensation, counselling and rehabilitation.

A total of 141 work accidents were reported to the Occupational Health Division in 2015. About 72 percent were in non-health care settings. Majority of these accidents occurred at the construction sites. Within the healthcare sector, most of the injuries involved needlestick injuries.

	TYPE OF INDUSTRIES INSPECTED BY OCCUPATIONAL HEALTH DIVISION (OHD)
A.	Agriculture, Hunting and Forestry
В.	Fishing
C.	Mining and Quarrying
D.	Manufacturing
E.	Electricity, Gas and Water Supply
F.	Construction
G.	Wholesale and Retail Trade, Repair of Motor Vehicles, Motorcycles and Personal and Household Goods
H.	Hotels and Restaurants
I.	Transport, Storage and Communications
J.	Financial Intermediation
К.	Real Estate, Renting and Business Activities
L.	Public Administration and Defence, Compulsary Social Security
М.	Education
N.	Health and Social Work
0.	Other Community, Social and Personal Service Activities
P.	Private Households with Employed Persons

Q. Extra-Territorial Organisations and Bodies

Note : The classification of industries is based on the International Labour Organisation (ILO) Classification of Industries.

	PURPOSE		NON	HEALTH	CARE		HEALTHCARE				
	PURPUSE	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015
1.	Workplace Inspection (First, Periodic & Follow- up Inspections)	50	39	51	48	77	1	6	3	7	22
2.	Workplace Survey	158	26	47	177	223	0	0	0	0	0
3.	Others (Accidents at Workplace Investigation, Occupational/Work- Related Disease Investigation, Requests, Complaints)	25	26	38	43	46	11	6	13	7	11
	FOTAL	233	91	136	268	346	12	12	16	14	33

WORKPLACE SURVEILLANCE BY OCCUPATIONAL HEALTH DIVISION

Source : Occupational Health Division, Ministry of Health

Occupational Health Services

	TYPES OF INJURY (NON HEALTHCARE)	2011	2012	2013	2014	2015
А.	Agriculture, Hunting and Forestry	3	1	3	0	1
B.	Fishing	0	0	0	0	0
C.	Mining and Quarrying	0	0	0	0	0
D.	Manufacturing	59	14	7	12	13
E.	Electricity, Gas and Water Supply	3	0	2	2	3
F.	Construction	57	21	21	18	41
G.	Wholesale and Retail trade, Repair of Motor Vehicle, Personal and Household goods	13	0	5	2	5
H.	Hotel and Restaurant	2	2 0		0	5
I.	Transport, Storage and Communication	2	0	2	1	3
J.	Financial Intermediation	0	0	0	0	0
К.	Rental Estate, Renting and Business Activities	0	0	0	0	0
L.	Public Administration, Defense, Compulsory Social Security	5	0	0	0	0
М.	Education	0	0	0	1	0
N.	Health and Social Work	1	0	0	0	2
0.	Other Community, Social, and Personal Service Activities	22	13	5	23	12
P.	Private Household with Employed Persons	0	0	2	3	2
Q.	Extra- Territorial Organizations and Bodies	0	0	0	0	0
	Unknown	0	184	15	2	14
	TOTAL	167	233	63	64	101

	TYPES OF INJURY (HEALTHCARE)	2011	2012	2013	2014	2015
1.	Needle Prick	52	16	20	39	36
2	Other Injuries *	9	14	3	2	4
	TOTAL	61	30	23	41	40

Note

Other Injuries * include Blood/Body Fluid Splash, Scalpel/Elevator and Glass Cut.

OCCUPATIONAL AND WORK RELATED DISEASES

DISEASES		2011	2012	2013	2014	2015
1.	Noise Induced Deafness	72	37	45	36	66
2.	Occupational Dermatitis	2	1	2	0	1
3.	Occupational Asthma	0	0	1	0	2
4.	Occupational Lung Disease	-	-	1	0	0
	TOTAL	74	38	49	36	69

Source : Occupational Health Division, Ministry of Health

Tobacco Control

NUMBER OF OFFENCES RECORDED (TOBACCO ORDER 2005)
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YEAR	COMPOUND FINES ISSUED	STERN WARNING ISSUED	REQUIRED TO ATTEND SMOKING CESSATION CLINIC	CASES TRANSFERRED TO CUSTOMS AND EXCISE DEPT.	TOTAL NUMBER OF OFFENCES	NUMBER OF OFFENDERS RECORDED
2011	177	40	0	3	220	216
2012	191	0	3	-	194	192
2013	306	9	14	-	329	322
2014	243	2	32	-	277	277
2015	325	1	50	-	376	376

Source:

Health Enforcement Unit, Ministry of Health

Pharmacy Services

NUMBER OF PRESCRIPTIONS AND ITEMS BY HOSPITAL FOR THE YEAR 2015													
	RIPAS Hospital				SSB Hospital		РММ	PMMPMHAMB Hospital					
	IPP	RIMBA RU	OPP	W&C Pcy	A&E	IPP	OPP	A&E	IPP	OPP	A&E	Hospital	TOTAL
				NUME	BER OF PRES	CRIPTIONS							
Out-Patient Prescriptions / Discharge Prescriptions	23,569	8,184	211,640	17,630	57,152	6,795	102,001	11,817	3,189	31,829	3,121	25,406	502,333
In-Patient Prescriptions	43,280	0	0	0	0	6,108	0	0	3,592	o	0	150	53,130
Total Prescription	66,849	8,184	211,640	17,630	57,152	12,903	102,001	11,817	6,781	31,829	3,121	25,556	555,463
NUMBER OF ITEMS													
Out-Patient Prescriptions / Discharge Prescriptions	75,129	47,143	760,089	36,735	150,944	25,315	395,429	32,702	12,770	116,254	9,208	95,957	1,757,675
In-Patient Prescriptions	67,706	o	0	o	0	10,518	0	0	5,534	o	0	334	84,092
Total Items	142,835	47,143	760,089	36,735	150,944	35,833	395,429	32,702	18,304	116,254	9,208	96,291	1,841,767
Average No. of Items / OPP & DC Prescription	3,19	5.76	3.59	2.08	2.64	3.73	3.88	2.77	4.00	3.65	2.95	3.78	3.50
Average No. of Items / In-Patient Prescriptions	1.56	0.00	0.00	0.00	0.00	1.72	0.00	0.00	1.54	0.00	0.00	2.23	2.23

Source: Department of Pharmacy, Ministry of Health

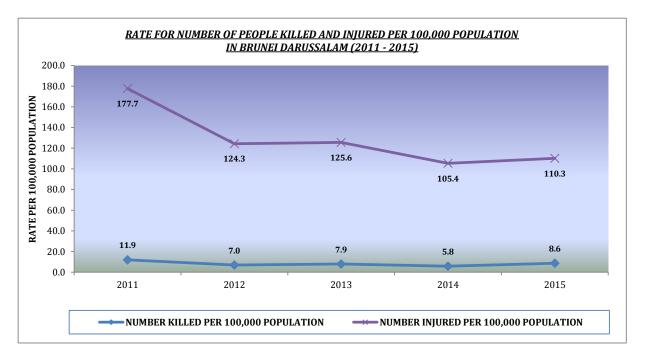
Note: IPP - In Patient Prescriptions ; OPP - Out Patient Prescriptions ; Rimba RU - Rimba Renal Unit

Road traffic accidents remain as one of the top ten leading causes of deaths in Brunei Darussalam. In 2015, Brunei Darussalam reported 3345 road accidents.

ROAD TRAFFIC ACCIDENTS (2011 - 2015)										
Y E A R	ACCIDENTS	KILLED	NUMBER KILLED PER 100,000 POPN.	INJURED	NUMBER INJURED FOR EACH PERSON KILLED	CASE FATALITY RATE % (CFR)				
2011	3,598	47	11.9	699	14.9	6.3				
2012	3,310	28	7.0	497	17.8	5.3				
2013	3,338	32	7.9	510	15.9	5.9				
2014	3,366	24	5.8	434	18.1	5.2				
2015	3,345	36	8.6	460	12.8	7.3				

Sources :

The Royal Brunei Police Force, Prime Minister's Office



Definitions

- 1 INFANT DEATHS : Deaths aged less than 1 year
- 2 EARLY NEONATAL DEATHS : Deaths aged less than 7 days
- 3 LATE NEONATAL DEATHS : Deaths aged 7 days to less than 28 days
- 4 POST NEONATAL DEATHS : Deaths aged 28 days to less than 365 days
- 5 NEONATAL DEATHS : Deaths aged less than 28 days
- 6 PERINATAL DEATHS : Stillbirths (Late Fetal Deaths) plus Early Neonatal Deaths
- 7 MATERNAL DEATH : Death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of the duration and the site of the pregnancy, from any cause related to or aggravated by the pregnancy or its management, but not from accidental or incidental causes (Source: WHO ICD-10 International Statistical Classification of Diseases and Related Health Problems)
- 8 **DIRECT OBSTETRIC DEATHS**: Those resulting from obstetric complications of the pregnancy state (pregnancy, labour and puerperium), from interventions, omissions, incorrect treatment, or from a chain of events resulting from any of the above (Source: WHO ICD-10 International Statistical Classification of Diseases and Related Health Problems).
- 9 INDIRECT OBSTETRIC DEATHS : Those resulting from previous existing disease or disease that developed during pregnancy and which was not due to direct obstetric causes, but which was aggravated by physiologic effects of pregnancy (Source: WHO ICD-10 International Statistical Classification of Diseases and Related Health Problems).
- 10 **LIVEBIRTH** : The complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of the pregnancy, which, after such separation, breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached; each product of such a birth is considered liveborn (Source: WHO ICD-10 International Statistical Classification of Diseases and Related Health Problems).
- 11 **STILLBIRTH (ALSO KNOWN AS LATE FETAL DEATH)**: Refers to any child which has issued forth from its mother after the twenty-fourth (24th) week of pregnancy and showing NO signs of life at birth (complete expulsion from its mother).

HOSPITAL INPATIENT ACTIVITIES

- 1 **ADMISSIONS** : Patients admitted direct to the hospitals or transferred from other institutions. These include newborn babies born outside the hospital and admitted to the hospital but excludes babies born in the hospital.
- 2 DISCHARGES (ALIVE AND DEATHS): These relate to live separations from the hospital or transfers to other institutions.
- 3 **DEATHS**: These include deaths after admissions to the hospital and exclude patients brought in dead and dying before admissions.
- 4 **PATIENT DAYS**: The number of days inpatient stayed in the hospital (services received by one inpatient in one 24-hour period). Patients admitted and discharged the same day are counted as having stayed one day in the hospital. The days a patient does not use his bed because he is on leave or absence are excluded.
- 5 DAY PATIENTS : Patients with conditions without the need to stay in the hospital overnight.

Formulae

- 1 CRUDE BIRTH RATE (per 1,000 population) = (LIVEBIRTHS / POP.) x 1000
- 2 GENERAL FERTILITY RATE = [LIVEBIRTHS / WOMEN POP. AGED (15-49)] x 1000
- 3 CRUDE DEATH RATE = (NO. OF DEATHS / POP.) x 1000
- 4 UNDER 5 MORTALITY RATE = [(0-4) DEATHS / LIVEBIRTHS) x 1000
- 5 LATE FETAL DEATH RATIO = (FETAL DEATHS / LIVEBIRTHS) x 1000
- 6 PERINATAL MORTALITY RATIO = (PERINATAL DEATHS / LIVEBIRTHS) x 1000
- 7 EARLY NEONATAL MORTALITY RATE = (EARLY NEONATAL DEATHS / LIVEBIRTHS) x 1000
- 8 LATE NEONATAL MORTALITY RATE = (LATE NEONATAL DEATHS / LIVEBIRTHS) x 1000
- 9 NEONATAL MORTALITY RATE = (NEONATAL DEATHS / LIVEBIRTHS) x 1000
- 10 POST NEONATAL MORTALITY RATE = (POST NEONATAL DEATHS / LIVEBIRTHS) x 1000
- 11 INFANT MORTALITY RATE = (INFANT DEATHS / LIVEBIRTHS) x 1000
- 12 MATERNAL MORTALITY RATIO (per 100,000 live births) = (MATERNAL DEATHS / LIVEBIRTHS) x 100000
- 13 MATERNAL MORTALITY RATIO (per 1,000 live births) = (MATERNAL DEATHS / LIVEBIRTHS) x 1000

HOSPITAL PERFORMANCE INDICES

- 1 AV. INPATIENTS / DAYS = PATIENTS DAYS / NO OF DAYS
- 2 **BED OCCUPANCY RATE = [**(AV. INPATIENTS / DAYS) / AVAILABLE BEDS] x 100
- 3 AV. LENGTH OF STAY (days) = PATIENT DAYS / DISCHARGES & DEATHS
- 4 AV. TURNOVER OF PATIENTS / BED = DISCHARGES & DEATHS / AVAILABLE BEDS
- 5 AV. TURNOVER INTERVAL (days) = [(AVAILABLE BEDS x 365) PATIENT DAYS] / DISCHARGES & DEATHS
- 6 DAY CASE PERCENTAGES (per 100 admissions) = (DAY-PATIENTS / ADMISSIONS) x 100
- 7 HOSPITAL DEATH RATE (per 100 discharges & deaths) = (DEATHS / DISCHARGES & DEATHS) x 100

POPULATION BASED HOSPITAL ACTIVITIES

- 1 OP ATTENDANCE RATE / 1000 POP. = (GENERAL OP ATTENDANCES / POP.) x 1000
- 2 A&E OP ATTENDANCES RATE / 1000 POP. = (A&E OP ATTENDANCES / POP.) x 1000
- 3 HOSPITALISATION RATE / 1000 POP. = (ADMISSION / POP.) x 1000
- 4 RATE OF PATIENT DAYS / 1000 POP. = (PATIENT DAYS / POP.) x 1000

Note:

AV. = Average OP = Outpatient POP. = Population

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Budget Section Tender Section Ledger Section, Treasury Department

Ministry of Home Affairs

Birth, Death and Adoption Section, Immigration and National Registration Department

Ministry of Communication

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Ministry of Health

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