



Health

Information Booklet 2017

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Brunei Darussalam's Health Status at A Glance



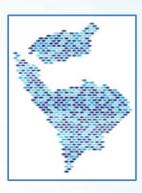
POPULATION

421,300 people lived in Brunei Darussalam in 2017 compared to 332,844 in 2011, an increase of 26.6%. There were about 37,800 (9.0% of the total population) people aged 60 years or above.



LIVE BIRTH

Total live birth was 15.3 per 1000 population in 2017.



LIFE EXPECTANCY

Life expectancy continues to increase, so as a Bruneian male today can expect to live to 76.3 years and a female at 78.3 years in 2017.



INFANT MORTALITY RATE

Infant Mortality Rate was 9.5 per 1000 live births in 2017, a significant reduction from 17.5 per 1000 live births in 1980.



IMMUNISATION

Immunisation coverage has consistently been above 95.0% for all vaccinations in the National Immunisation Programme which met the targets set by the WHO.



MATERNAL DEATH

Four (4) maternal deaths were registered in 2017 and has been maintained at a low rate over the last 50 years, which is comparable to other developed countries. Almost all deliveries in Brunei Darussalam are attended by skilled health personnel.



INFECTIOUS DISEASES

Remarkable success in eliminating infectious diseases. Brunei is officially proclaimed by WHO as Malaria free in 1987, Poliomyelitis free in 2000 and Measle-free in 2015. HIV/AIDS, Tuberculosis and other infectious disease incidences are at low level.



Brunei Darussalam's Health Status at A Glance

TOP 5 NCDs DEATHS IN 2017



Male 31.2 %



Female 26.4 %



TOP 4 TYPES OF CANCER DEATHS AMONG MALE IN 2017



Lung 18.2%

Rectum & Anus 14.5%



Stomach 10.1%



Colon 8.2%

Total Male Deaths of Cancer: 159

TOP 4 TYPES OF CANCER DEATHS AMONG FEMALE IN 2017



Breast 17.9%

Total Female Deaths of Cancer: 168



Lung 13.7%

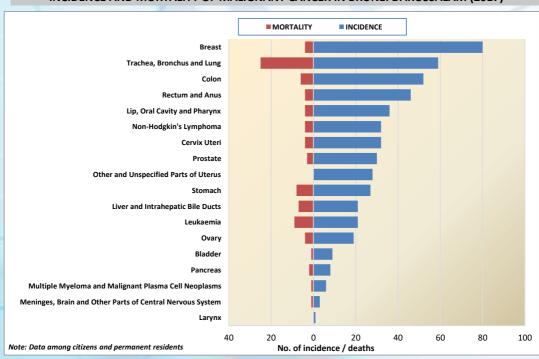


Rectum & Anus 9.5%



Cervix Uteri 6.5%

INCIDENCE AND MORTALITY OF MALIGNANT CANCER IN BRUNEI DARUSSALAM (2017)



Population (2017)

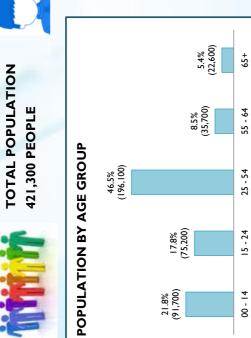


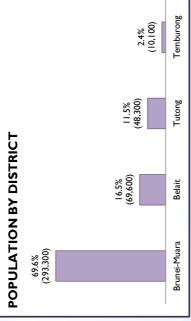


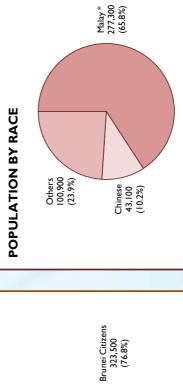
216,400 PEOPLE MALE

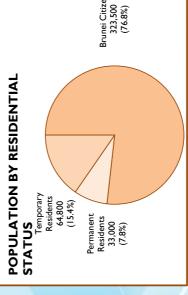


204,900 PEOPLE FEMALE









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

Source:

Note:

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

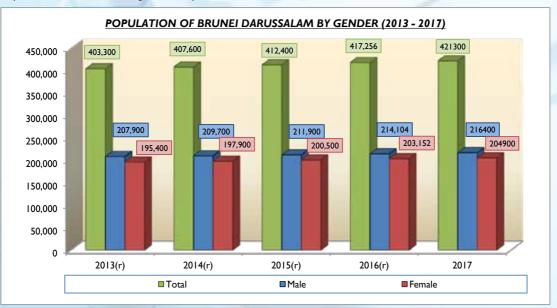
Population Distribution by Age - Groups

	,	(r)	··(r)	(r)	(r)	2017
Age Group (in thousands	<u>s)</u>	<u>2013</u> ^(r)	<u>2014</u> ^(r)	<u>2015</u> ^(r)	<u>2016</u> (r)	<u>2017</u>
0 - 4	:	29.6	29.2	28.8	28.4	28.4
5 - 9		32.4	31.7	31.1	30.4	30.6
10 - 14		35.0	34.8	34.5	34.3	32.7
15 - 19	:	35.5	35.8	36.1	36.4	36.8
20 - 24		38.6	38.7	38.9	39.0	38.4
25 - 29	:	39.5	39.6	39.7	39.8	39.6
30 - 34	:	36.9	36.9	36.9	36.9	37.5
35 - 39	-:	34.1	34.2	34.4	34.5	35.3
40 - 44	:	30.5	30.7	31.0	31.2	31.7
45 - 49	:	25.9	26.5	27.1	27.7	28.8
50 - 54	:	21.3	21.8	22.5	23.2	23.2
55 - 59	:	16.1	17.2	18.2	19.2	20.5
60 - 64	:	10.9	12.2	13.4	14.6	15.2
65 - 69	V:	6.6	7.4	8.2	9.0	9.8
70 - 74		4.4	4.6	4.9	5.1	5.4
75 - 79	-	3.1	3.3	3.5	3.8	4.2
80 - 84		1.7	1.9	2.0	2.2	2.0
85 & Over	VA	1.2	1.1	1.2	1.6	1.2

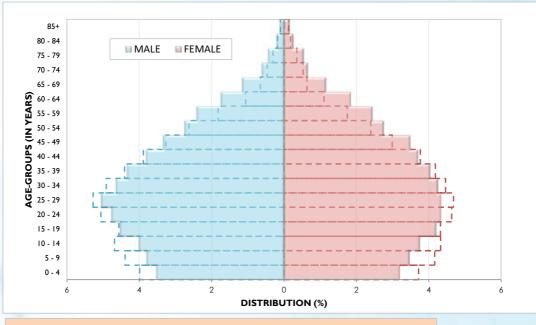
The population data for the years 2012-2015 have been recalculated due to the revised population based on 2016 census data. (r) - revised.

Source:

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



Population Pyramid (2017)



Total population in 2011 -----Total population in 2017 ———

Note:

Population pyramid shows percentage distribution of population by gender and age-groups.

For example, (0 - 4) age-group for the year 2017 is represented with 6.7% of total population in which 3.5% and 3.2% are made up of male and female population respectively.

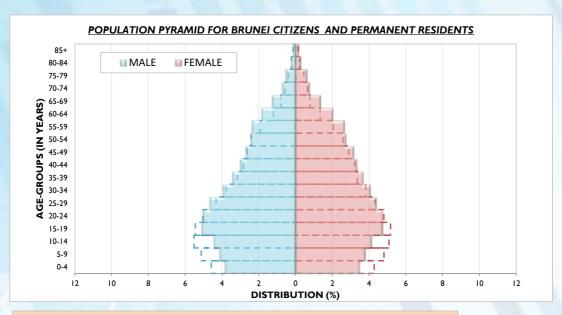
Population Trend of Brunei Darussalam (1911-2017)



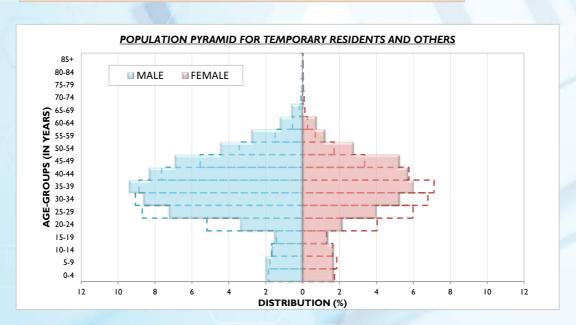
Source:

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

Population Pyramid by Residental Status for the Years 2011 and 2017



Total population in 2011 -----
Total population in 2017 ———



Population aged 60 years and above for the year 2017 is represented with 9.0% of total population in which 4.3% and 4.7% are made up of male and female population respectively.

On the residential status, the share of the Brunei Citizens was around 76.8%, Permanent Residents 7.8% and Temporary Residents 15.4%. 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

		<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
Crude Birth Rate			1.0	1.0		
(per 1,000 Population)	:	16.6	16.9	16.2	15.4	15.3
General Fertility Rate			50 /			- 10
(per 1,000 Female Population Aged (15-49))	:	57.2	58.6	56.5	54.5	54.0
Total Fertility Rate		1.9	1.9		1.0	
(per Female Population Aged (15-49))	٠	1.7	1.7	1.8	1.8	1.8
Crude Death Rate		3.5	3.6	3.8	3.9	4.0
(per 1,000 Population)	•	3.3	3.6	3.6	3.7	7.0
Infant Mortality Rate		7.8	7.3	8.8	8.2	9.5
(per I,000 Live Births)	•	7.0	7.5	0.0	0.2	7.5
Late Fetal Death Ratio		5.5	6.4	5.1	3.1	7.4
(per I,000 Live Births)						
Perinatal Mortality Ratio	:	8.4	9.0	8.7	6.8	12.6
(per I,000 Live Births)						
Early Neonatal Mortality Rate	:	2.8	2.6	3.6	3.7	5.1
(per I,000 Live Births)						
Late Neonatal Mortality Rate (per 1,000 Live Births)	:	0.9	1.2	1.8	1.1	1.4
Neonatal Mortality Rate						
(per I,000 Live Births)	:	3.7	3.8	5.4	4.8	6.5
Post Neonatal Mortality Rate						
(per I,000 Live Births)	:	4.0	3.5	3.4	3.4	2.9
Under 5 Mortality Rate						
(per 1,000 Live Births)	:	9.7	8.7	10.3	10.4	11.5
· ·						
Number of Maternal Deaths *	:			4	0	4
Maternal Mortality Ratio			145			(2.0
(per 100,000 Live Births)	:	15.0	14.5	59.7	0.0	62.0
Maternal Mortality Ratio		0.15	0.15	0.40	0.00	0.62
(per 1,000 Live Births)	:	0.15	0.15	0.60	0.00	0.62
Life Expectancy At Birth - Total		78.0	77.2	77.7	77.8	77.3 ^(p)
Life Expectancy At birth - Total	•	76.0	77.2	11.1	//.0	//.3 ⁽¹⁾
- Male		77.7	75.8	77.8	76.9	76.3 ^(p)
- maie	•	77.7	73.0	77.0	, 5.,	70.3
- Female	;	78.3	78.5	77.5	78.7	78.3 ^(p)
			. 3.3			, 0.5
Percentage of Newborns Weighing At Least		88.2	88.1	88.2	89.6	88.7
2500g At Birth	•	00.2	00.1	00.2	07.0	00.7
Percentage of Deliveries by Trained Health		00.7	00.0	100.0	100.0	100.0
Personnel	:	99.7	99.9	100.0	100.0	100.0
Per Capita GDP at current prices		E.C.	F0.1	42.1		20.0
(B\$) Thousand	:	56.1	53.1	43.1	37.7	39.8

Note:

Provisional (Þ)

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.

Life Expectancy at Birth

			<	4	/ }>	>					71		
	#										01		
	Life expectancy at birth				/\						60	70	
	cy a										80	70	
	ctar				11						20		
	exbe				// '						90		
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											86		
ш											16	61	
											18	61	
		84	82	 2 %	9/	47	27	02	89	99	18	61	
		84	82	2 °	o, 92	2 47	27	02	89	99		61	
		Overall 84	71.4	74.3	75.6	77.1	80.1	78.0	77.2	77.7		77.3	
					1			-			64		lan
	Life Expectancy (in years)	Overall	71.4	74.3	75.6	1.77	1.08	78.0	77.2	7.77	77.8	77.3	
		Male Female Overall	72.7 71.4	76.5 74.3	77.1 75.6	78.5 77.1	78.9 81.2 80.1	77.7 78.3 78.0	78.5 77.2	7.77	78.7 77.8 64	78.3 77.3	Note: (r) - revised: (h) - brovisional

25.0 Cancer (Malignant Neoplasms) Heart Diseases (including Acute Rheumatic Fever) 20.0 2017 15.0 Cerebrovascular Diseases Diabetes Mellitus Certain Conditions Originating in the Perinatal Period Bronchitis. Chronic and Unspecified Emphysema and Asthma 0.0 Hypertensive Diseases Influenza and Pneumonia Changes in the 10 Leading Causes of Death Septicaemia Transport Accidents 2.0 0.0 % OF TOTAL DEATHS Congenital Malformations, Deformations and Chromosomal Abnormalities Septicaemia Influenza and Pneumonia Bronchitis, Chronic and Unspecified Emphysema and Asthma 2.0 Transport Accidents Hypertensive Diseases Cerebrovascular Diseases 0.0 Diabetes Mellitus 15.0 Heart Diseases (including Acute Rheumatic Fever) 2007 Cancer (Malignant Neoplasms) 20.0 25.0

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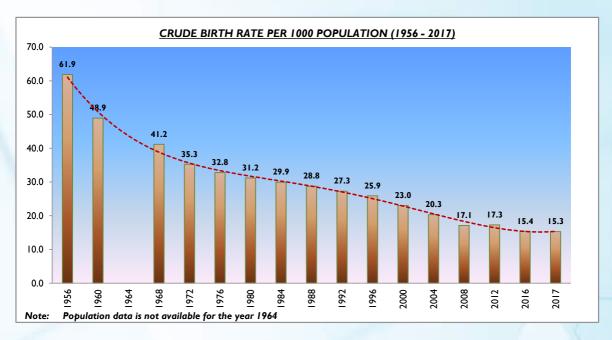
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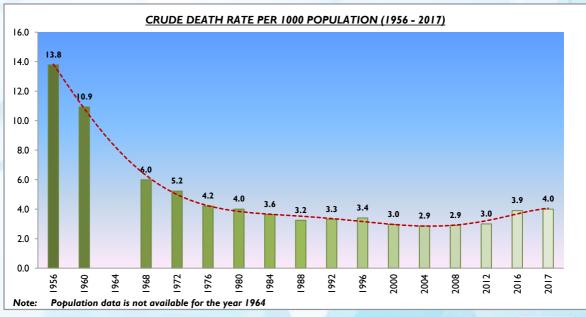
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Overall

Crude Birth and Crude Death Rate

The crude birth rate of Brunei Darussalam has declined from 23.0 in 2000 to 15.3 per 1000 population in 2017 whilst the crude death rate is 4.0 per 1000 population in 2017.





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.



Goals and Targets	Indicators for Monitoring progress	Brunei Darus: Related t	
		2016 Data	2017 Data
Goal 3 : Good Health and Well-Being			
Target 3.1 : By 2030, reduce the global maternal mortality ratio to less than 70 per	3.1.1 Maternal mortality ratio (per 100,000 live births)	0.0 per 100,000 livebirths (no maternal death)	62.0 per 100,000 livebirths (4 maternal deaths)
100,000 live births	3.1.2 Proportion of births attended by skilled health personnel (%)	100.0 %	100.0 %
Target 3.2: By 2030, end preventable deaths of new-borns and children under 5 years of age, with all countries aiming to			11.5 per 1,000 livebirths
reduce neonatal mortality to at least as low as 12 per 1,000 live births and under-5 mortality to at least as low as 25 per 1,000 live births	-	4.8 per 1,000 livebirths	6.5 per 1,000 livebirths

Sustainable Development Goals (SDGs) (cont'd)

				salam's Status	
Goals and Targets	Indicat	tors for Monitoring progress	Related t	to Health	
			2016 Data	2017 Data	
Goal 3 : Good Health and Well-Being					
Target 3.3: By 2030, end the epidemics of AIDS, tuberculosis, malaria and neglected tropical diseases and combat hepatitis, water-borne diseases and other		Number of new HIV infections per 1,000 uninfected population, by sex, age and key populations	0.09 per 1,000 population	0.08 per 1,000 population	
communicable diseases	3.3.2	Tuberculosis incidence per 1,000 population	0.58 per 1,000 population	0.57 per 1,000 population	
	3.3.3	Malaria incidence per 1,000 population	0.02 per 1,000 population	0.02 per 1,000 population	
\	3.3.4	Hepatitis B incidence per 100,000 population	0.08 per 1,000 population	0.06 per 1,000 population	
	3.3.5	Number of people requiring interventions against neglected tropical diseases	Chikugunya I:	Chikugunya 0; Dengue Fever 73; Dengue Haemorrhagic Fever 2; Filariasis 1; Leptospirosis 0	
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		Mortality rate attributed to cardiovascular disease, cancer, diabetes or chronic respiratory disease	Probability of dying between the ages of 30 and 70 years from non- communicable diseases (cardiovascular diseases, cancer, diabetes or chronic respiratory diseases): 14.4 % *	Probability of dying between the ages of 30 and 70 years from non- communicable diseases (cardiovascular diseases, cancer, diabetes or chronic respiratory diseases): 14.3 % *	
	3.4.2	Suicide mortality rate	0.0 per 100,000 population *	0.5 per 100,000 population *	
Target 3.6: By 2020, halve the number of global deaths and injuries from road traffic accidents		Death rate due to road traffic injuries	4.1 per 100,000 population	7.0 per 100,000 population	

^{* -} data among citizens and permanent residents

^{... -} not available.

Sustainable Development Goals (SDGs) (cont'd)

Goals and Targets	Indicators for Monitoring progress		salam's Status to Health	
		2016 Data	2017 Data	
Goal 3 : Good Health and Well-Being				
Target 3.7: By 2030, ensure universal access to sexual and reproductive health-care services, including for family planning, information and education, and the	years) who have their need for family planning satisfied with modern methods	×		
integration of reproductive health into national strategies and programmes	3.7.2 Adolescent birth rate (aged 10-14 years; aged 15-19 years) per 1,000 women in that age group	9.7 per 1,000	9.3 per 1,000 (aged 15-19) female population	
Target 3.9: By 2030, substantially reduce the number of deaths and illnesses from			-	
hazardous chemicals and air, water and soil pollution and contamination	3.9.2 Mortality rate attributed to unsafe water, unsafe sanitation and lack of hygiene (exposure to unsafe Water, Sanitation and Hygiene for All (WASH) services)			
	3.9.3 Mortality rate attributed to unintentional poisoning	0	0	
Target 3.a: Strengthen the implementation of the World Health Organization Framework Convention on Tobacco Control in all countries, as appropriate	persons aged 15 years and older			
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		Doctors 16 per 10,000; Dentist 3 per 10,000; Pharmacist 2 per 10,000; Nurses and Midwives 70 per 10,000	Doctors 16 per 10,000; Dentist 3 per 10,000; Pharmacist 2 per 10,000; Nurses and Midwives 71 per 10,000	
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:	emergency preparedness	84.6%		

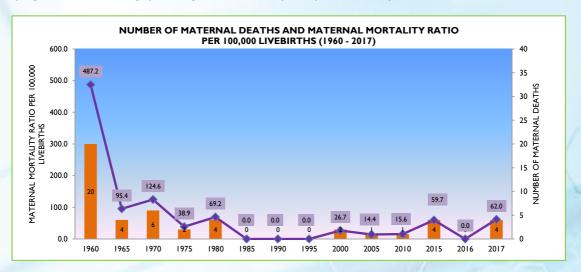
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GOAL 3: GOOD HEALTH AND WELL-BEING

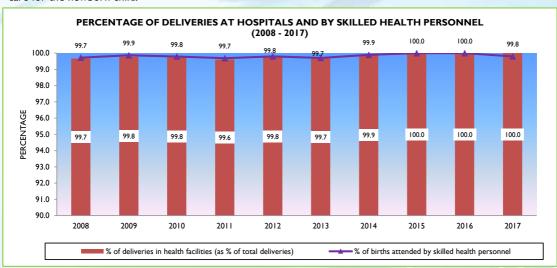
Target 3.1: By 2030, reduce the global maternal mortality ratio to less than 70 per 100,000 live births

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 2017, four (4) maternal death was registered.

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 rise 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 personnel.



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.

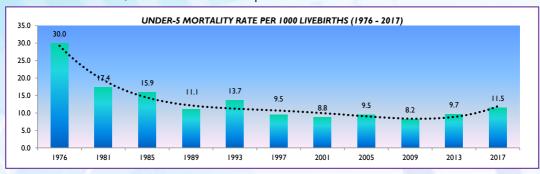


GOAL 3: GOOD HEALTH AND WELL-BEING

Target 3.2: By 2030, end preventable deaths of new-borns 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 mortality to at least as low as 25 per 1,000 live births

Brunei Darussalam has been able to gradually reduce the under-5 mortality rate (U5MR) from 30 deaths per 1000 livebirths in 1976 to 11.5 deaths per 1000 livebirths in 2017. The current challenge is to achieve further reductions in U5MR where the data analysis from 2004 to 2017 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 2017, this caused more than 71.2 percent of total under five deaths.



	LEADING CAUSES OF UNDER 5 MORTALITY IN BRUNEI DARUSSALAM (2013 - 2017)								
	2013	2014	2015	2016	2017				
ı	Certain Conditions Originating In The Perinatal Period 26	Certain Conditions Originating In The Perinatal Period 24	Certain Conditions Originating In The Perinatal Period 27	Certain Conditions Originating In The Perinatal Period 29	Certain Conditions Originating In The Perinatal Period 34				
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 Malformations, Deformations and Chromosomal Abnormalities				
	15	17	26	13	19				
3	Cancer	Septicaemia	Heart Diseases	Cancer	Heart Diseases				
,	3	2	2	7	3				
4	Transport Accidents	Diarrhoea and Gastroenteritis of Presumed Infectious Origin	Accidental Drowning and Submersion	Septicaemia	Cancer				
	3	l	2	4	2				
5	Heart Diseases	Other Intestinal Infectious Diseases	Cancer	Heart Diseases	Accidental Drowning and Submersion				
	2	I	I	2	2				
6	Septicaemia	Cancer	Exposure to Smoke, Fire and Flames	Influenza & Pneumonia	Influenza & Pneumonia				
	I	1	1	I	2				
7	Influenza & Pneumonia	Anaemias	7	Bronchitis, Chronic & Unspecified Emphysema & Asthma	Diarrhoea and Gastroenteritis of Presumed Infectious Origin				
	l	l		l	l				
8	Unspecified Acute Lower Respiratory Infection	Heart Diseases		Transport Accidents	Septicaemia				
	l l	<u> </u>		<u> </u>	l l				
OTHERS **	13	12	8	9	10				
TOTAL	65	60	67	67	74				

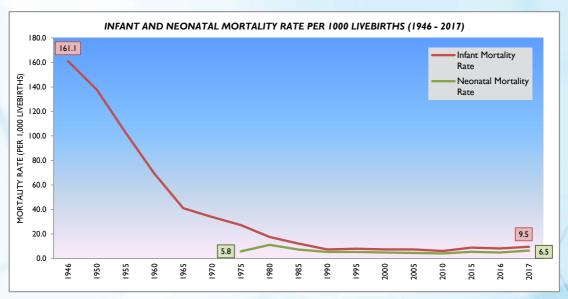
Note: * - No other single cause of death.

** - Remainders.

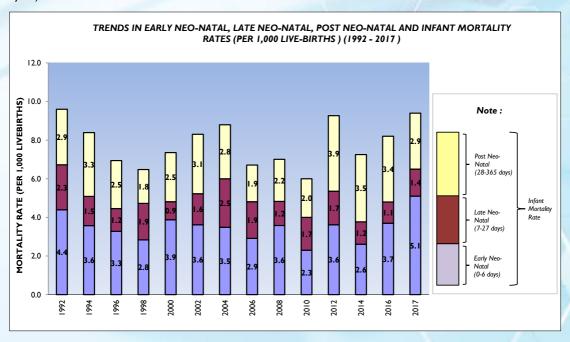
GOAL 3: GOOD HEALTH AND WELL-BEING

Target 3.2: By 2030, end preventable deaths of new-borns 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 mortality to at least as low as 25 per 1,000 live births

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 9.5 per 1000 livebirths in 2017.



Data from 2004-2017 showed over two thirds of deaths occurred during early and late neonatal periods, mainly due to perinatal conditions and congenital abnormalities. In 2017, deaths occurring at infant period (less than I year) account for 82.4% of total deaths in U5MR.



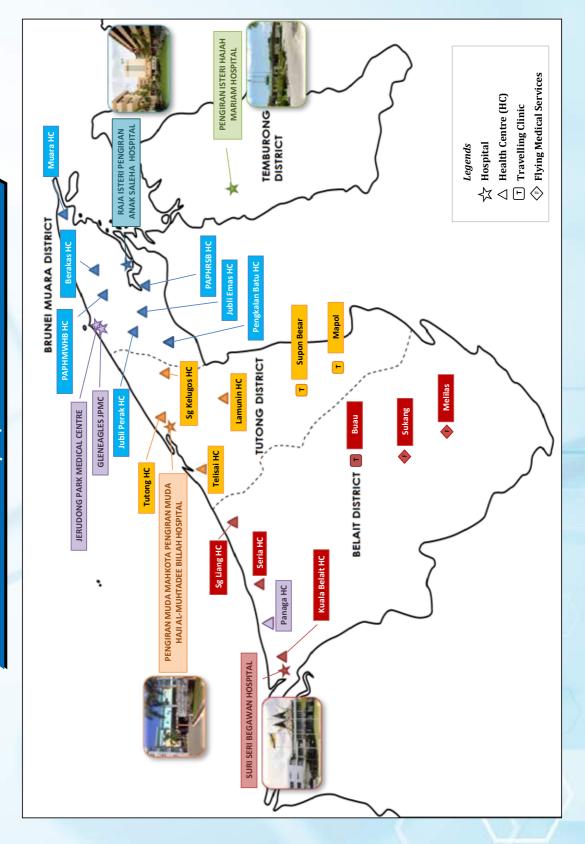
Health Facilities (2017)

GOVERNMENT MEDICAL CARE	NUMBER
- HOSPITALS	4
- MEDICAL CLINICS (Ministry of Defence)	8
- DIALYSIS CENTRES	7
HEALTH SERVICES	
- HEALTH CENTRES	14
- HEALTH CLINICS	3
- MATERNAL AND CHILD HEALTH CLINICS	4
- TRAVELLING HEALTH CLINICS	3
- FLYING MEDICAL SERVICES	2
DENTAL SERVICES	- 10 1
- DENTAL SERVICES AT:	V 10-
HOSPITALS	4
HEALTH CENTRES	
HEALTH CLINICS	16
STATIC SCHOOL CLINICS	44
MOBILE SQUAD	9
TRAVELLING (FLYING TEAM)	0
PRIVATE HEALTH SERVICES	
TATALL HEALTH SERVICES	
- HOSPITALS (1)	2
- HEALTH CENTRE	(2)
- HEALTH CLINICS	33 ⁽³⁾
- DENTAL CLINICS	8 ⁽⁴⁾

Note:

- Jerudong Park Medical Centre (JPMC) and Gleneagles Jerudong Park Centre (GJPMC) (1)
- Panaga Health Centre (2)
- Including 12 health clinic branches (3)
- Including I dental clinic branch

Distribution Map of Health Care Facilities



Human Resource in Health

Human	Resources (201	7)	Government	Army	Private	Total
Truman	resources (201	Local	90	6	16	112
	Male					
- (1)		Foreign	210	3	18	231
Doctors (I)	Female	Local	168	4	17	189
		Foreign	109	8	34	151
	TO	IAL	577	21	85	683
Population per I						617
Doctor per 10,0	000 Population					16
	Male	Local	16	4	4	24
		Foreign	12	3	6	21
Dentists (2)	Female	Local	47	2	I	50
		Foreign	8	L ave	2	- 11
	TO	TAL	83	10	13	106
Population per I	Dentist					3975
Dentist per 10,0	000 Population					3
	Male	Local	5	5		H
	Tiale	Foreign	I		2	3
Pharmacists (3)	Female -	Local	40		15	55
		Foreign	0		9	9
1 1	TO	TAL	46	5	27	78
Population per I	Pharmacist					5401
Pharmacist per	10,000 Populatio	n				2
	Male	Local	412	91	35	538
	1 late	Foreign	53		47	100
Nurses (4)	Female	Local	1595	33	116	1744
	Temale	Foreign	138		193	331
	TO	TAL	2198	124	391	2713
Population per I	Nurse					155
Nurse per 10,00	00 Population					64
	Male	Local				
	riale	Foreign				
Midwives (4)	East-1-	Local	259	10	3	272
	Female	Foreign	9		8	17
	TO	TAL	268	10	П	289
Population per I	Midwife					1458
Midwife per 10,0	000 Population					7

Source :

(3)

- (1) Brunei Medical Board, Ministry of Health
- (2) Dental Services, Ministry of Health
 - Pharmacy Department, Ministry of Health
- (4) Nursing Board, Ministry of Health

Human Resource in Health

Allied Health Professionals for 2017	Male	Female	TOTAL
Audiologist	0	5	5
Clinical Psychologist	3	19	22
Dietician / Nutritionist	6	20	26
Health Education Officer	3	6	9
Maxillofacial Prosthetist & Technologist	2	0	2
Medical Social Worker	ı	10	П
Occupational Therapist	3	23	26
Optometrist	0	9	9
Orthoptist	0	2	2
Paramedic	0	2	2
Physiotherapist	6	12	18
Podiatrist	- /	7	8
Prosthetist and Orthotist	1	0	T
Public Health Officer	5	12	17
Radiographer	6	28	34
Scientific Officer in Scientific / Diagnostic Laboratory	22	61	83
Speech Language Therapist	0	5	5
Teacher for the Hearing Impaired	1	1)7	2

Note: - excluding officers who have transferred (seconded) to other departments.
- Paramedic (Division II only)

Source: Department of Administration and Finance, Ministry of Health

Government Health Expediture

	2015/16	2016/17	2017/18
Total Health Budget (B\$ Millions)	385.12	349.60	316.11
Health Budget as % of National Budget	8.19	8.32	8.78
Per Capita Health Budget (B\$)	934	838	750
Health Budget as % of GDP	2.17	2.22	1.89
Total Health Expenditure (B\$ Millions)	403.27	381.32	
Health Expenditure as % of Government Expenditure	9.16	8.54	
Per Capita Health Expenditure (B\$)	978	914	10
Health Expenditure as % of GDP	2.27	2.42	

Note:

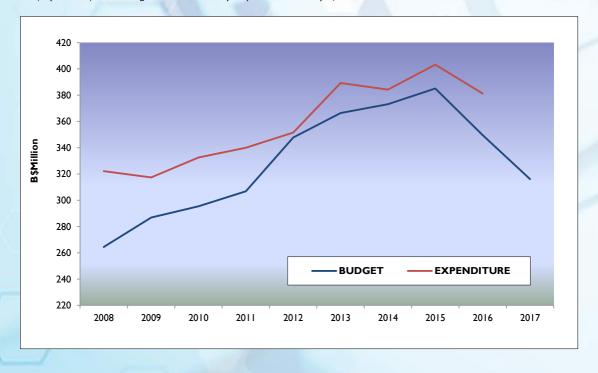
GDP - Gross Domestic Product

Source:

(Budget)

- Budget Section, Ministry of Finance

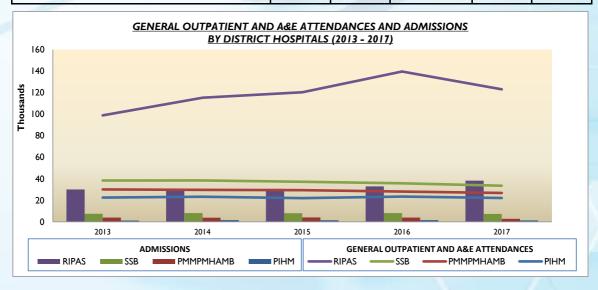
(Expenditure) - Ledger Section, Treasury Department, Ministry of Finance



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 2017	RIPAS	SSB	РММРМНАМВ	PIHM	TOTAL
OUTPATIENT ACTIVITIES					
General Outpatient Attendances				15,817	15,817
Accident & Emergency (A&E) Outpatient Attendances	123,086	33,544	26,812	6,273	189,715
Specialist Outpatient Attendances	327,542	90,183	49,869	25,766	493,360
TOTAL OUTPATIENT ATTENDANCES	450,628	123,727	76,681	47,856	698,892
INPATIENT ACTIVITIES					
Available Beds	847	222	109	46	1,224
Admissions	38,233	7,364	2,770	1,324	49,691
Discharges & Deaths	38,185	7,359	2,793	1,324	49,661
Deaths only	763	140	17	4	924
Patient Days	295,651	47,252	16,129	4,617	363,649
Day Patients	1,770	444	469	128	2,811
TOTAL (ADMISSIONS + DAY PATIENTS)	40,003	7,808	3,239	1,452	52,502
PERFORMANCE INDICES					
Average Number of Inpatients per Day	810	129	44	13	996
Bed Occupancy Rate	96	58	41	27	81
Average Duration of Stay (Days)	7.7	6.4	5.8	3.5	7.3
Average Turnover of Patients per Bed	45	33	26	29	41
Average Turnover Interval (Days)	0.4	4.6	8.5	9.2	1.7
			100		



VISIT STATISTICS BY SPECIALTY FOR THE YEAR 2017 (RAJA ISTERI PENGIRAN ANAK SALEHA HOSPITAL, BRUNEI MUARA)

	CITI	ZEN	NON-C	ITIZEN		TOTAL	
SPECIALTY	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	TOTAL
A & E	5	11	0	0	5	- 11	16
Acute Medicine	122	154	5	14	127	168	295
Audiology & Hearing	3,960	2,875	272	203	4,232	3,078	7,310
Cardiology & Vasc GS	254	226	26	28	280	254	534
Cardiovascular Medicine	9,685	7,800	1,444	755	11,129	8,555	19,684
Circumcision	1	0	0	0	1	0	- 1
Clinical Haematology	5,531	6,157	433	263	5,964	6,420	12,384
Clinical Psychology	1,097	958	109	61	1,206	1,019	2,225
DNE	1,355	1,754	79	72	1,434	1,826	3,260
Dietietic	1,042	1,252	73	90	1,115	1,342	2,457
Endocrinology	4,585	8,060	346	626	4,931	8,686	13,617
Eye	11,550	10,592	1,447	932	12,997	11,524	24,521
Gastroenterology & Hepatology	5,448	4,417	618	529	6,066	4,946	11,012
General Paediatrics	5,737	4,569	579	424	6,316	4,993	11,309
Geriatric Medicine	218	385	35	34	253	419	672
Gynaecology		16,675		1,607		18,282	18,282
Haj Medical Centre	873	886	4	23	877	909	1,786
HNCC	83	133	10	16	93	149	242
Infectious Control	523	242	25	24	548	266	814
Maxillo-Facial, PRS & Tech	7,886	8,765	1,458	899	9,344	9,664	19,008
Medical Social Worker	102	118	16	8	118	126	244
Neonatalogy	409	352	37	47	446	399	845
Nephrology	1,354	1,623	142	175	1,496	1,798	3,294
Neurology	2,174	2,573	193	193	2,367	2,766	5,133
Obstetrics		22,814		2,673		25,487	25,487
Occupational Health	1,117	837	803	240	1,920	1,077	2,997
Occupational Therapy	3,893	3,017	422	225	4,315	3,242	7,557
Orthotic / Prosthetic	346	327	37	53	383	380	763
Palliative Medicine	544	627	79	76	623	703	1,326
Physiotherapy	5,500	7,487	562	500	6,062	7,987	14,049
Podiatry	2,256	2,473	165	125	2,421	2,598	5,019
Psychiatry	2,985	3,014	276	421	3,261	3,435	6,696
Rehabilitative Medicine	335	226	42	9	377	235	612
Respiratory Medicine	2,105	2,900	449	269	2,554	3,169	5,723
Rheumatology	764	2,270	86	187	850	2,457	3,307
Skin (Dermatology)	9,679	10,656	899	779	10,578	11,435	22,013
Speech Therapy	2,578	812	205	67	2,783	879	3,662
Colorectal Surgery	5	7	2	0	7	7	14
Dental Surgery	1,620	1,958	140	159	1,760	2,117	3,877
General Surgery	5,247	7,893	482	823	5,729	8,716	14,445
Neuro Surgery	1,268	1,428	136	160	1,404	1,588	2,992
ORL Surgery	5,728	6,275	549	479	6,277	6,754	13,031
Paediatrics Surgery	1,275	550	120	65	1,395	615	2,010
Paediatrics Dental Surgery	1,092	733	85	51	1,177	784	1,961
Urology Surgery	7,121	1,762	1,023	167	8,144	1,929	10,073
Ortho Surgery	9,457	9,098	1,585	843	11,042	9,941	20,983
TOTAL	128,909	167,741	15,498	15,394	144,407	183,135	327,542

Source: Bru-HIMS Report - Visit Statistics By Specialty.

VISIT STATISTICS BY SPECIALTY FOR THE YEAR 2017 (SURI SERI BEGAWAN HOSPITAL, BELAIT)

SPECIALTY	CITI	ZEN	NON-C	CITIZEN		TOTAL	
SPECIALTY	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	TOTAL
Anaesthesia	177	148	31	30	208	178	386
Audiology & Hearing	146	134	15	39	161	173	334
Cardiovascular Medicine	1,080	783	316	172	1,396	955	2,351
Clinical Psychology	132	79	15	11	147	90	237
Community Psych	45	- 11	5	2	50	13	63
Dietetic	364	522	47	81	411	603	1,014
Endocrinology	1,578	2,293	211	318	1,789	2,611	4,400
Eye	2,615	2,953	637	587	3,252	3,540	6,792
Gastroenterology & Hepatology	801	674	174	181	975	855	1,830
General Internal Medicine	2,681	3,139	689	589	3,370	3,728	7,098
General Paediatrics	3,754	2,846	841	646	4,595	3,492	8,087
Gynaecology		2,466		477		2,943	2,943
Haj Medical Centre	141	144	4		145	155	300
Home Based	181	317	48	174	229	491	720
Infectious Control	2	4	- 1	0	3	4	7
Laboratory	533	472	202	127	735	599	1,334
Maxillo-Facial & PRS	91	123	21	25	112	148	260
Medical Social Worker	19	35	1	7	20	42	62
Nephrology	6,497	5,559	1,432	842	7,929	6,401	14,330
Neurology	68	61	- 11	18	79	79	158
Obstetrics		1,940		361		2,301	2,301
Occupational Health	11	9	- 1	0	12	9	21
Occupational Therapy	1,161	663	86	149	1,247	812	2,059
Physiotherapy	1,328	1,597	222	348	1,550	1,945	3,495
Podiatry	473	477	38	56	511	533	1044
Psychiatry	1,262	1,405	306	386	1,568	1,791	3,359
Respiratory Medicine	323	416	71	71	394	487	881
Rheumatology	18	87	3	7	21	94	115
Skin (Dermatology)	333	328	33	46	366	374	740
Speech Therapy	535	155	32	32	567	187	754
Breast Surgery	2	78	0	20	2	98	100
Colorectal Surgery	1	0	0	0	1	0	//
Dental Surgery	4,335	5,372	702	801	5,037	6,173	11,210
General Surgery	2,286	1,640	561	437	2,847	2,077	4,924
Neuro Surgery	8	5	2	4		9	19
ORL Surgery	1,155	1,133	280	254	1,435	1,387	2,822
Ortho Surgery	1,535	1,456	366	275	1,901	1,731	3,632
TOTAL	35,671	39,524	7,404	7,584	43,075	47,108	90,183

Source:

Bru-HIMS Report - Visit Statistics By Specialty

VISIT STATISTICS BY SPECIALTY FOR THE YEAR 2017 (PENGIRAN MUDA MAHKOTA PENGIRAN MUDA HAJI AL-MUHTADEE BILLAH HOSPITAL, TUTONG)

SDECIALTY	CITI	ZEN	NON-C	CITIZEN		TOTAL	
SPECIALTY	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	TOTAL
Cardiovascular Medicine	435	335	10	4	445	339	784
Circumcision	246	0	0	0	246	0	246
Clinical Psychology	19	19	0	0	19	19	38
Community Paediatrics	3	0	0	0	3	0	3
Community Psych	6	2	0	0	6	2	8
DNE	134	263		0	135	263	398
Dietetic	273	402	4	5	277	407	684
Endocrinology	513	823	12	6	525	829	1,354
Endoscopy	352	348	26	26	378	374	752
Eye	3,314	3,716	115	66	3,429	3,782	7,211
Gastroenterology & Hepatology	415	401	39	23	454	424	878
General Internal Medicine	2,273	2,723	62	41	2,335	2,764	5,099
General Paediatrics	1,094	712	12	25	1,106	737	1,843
Geriatric Medicine	41	16	0	0	41	16	57
Gynaecology		961		32		993	993
Haj Medical Centre	107	120	0	0	107	120	227
Home Based	191	158	27	0	218	158	376
Maxillo-Facial & PRS	36	53		4	37	57	94
Medical Social Worker	3	2	0	0		2	3
Nephrology	3,935	2,998	2	108	3,937	3,106	7,043
Neurology	45	40	2	2	47	42	89
Obstetrics		1,499		42		1,541	1,541
Occupational Therapy	856	562	2	14	858	576	1,434
Physiotherapy	1,883	1,529	12	46	1,895	1,575	3,470
Podiatry	154	191	0	3	154	194	348
Psychiatry	690	731		22	691	753	1,444
Skin (Dermatology)	338	348	4	3	342	351	693
Dental Surgery	4,337	6,251	127	177	4,464	6,428	10,892
General Surgery	238	207	/ -11		249	208	457
ORL Surgery	512	550	19	13	531	563	1,094
Ortho Surgery	142	168	0	6	142	174	316
TOTAL	22,583	26,128	489	669	23,072	26,797	49,869

Source:

Bru-HIMS Report - Visit Statistics By Specialty

VISIT STATISTICS BY SPECIALTY FOR THE YEAR 2017 (PENGIRAN ISTERI HAJAH MARIAM HOSPITAL, TEMBURONG)

SPECIALTY	CITI	ZEN	NON-C	ITIZEN		TOTAL	
SPECIALTY	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	TOTAL
Clinical Psychology	2	0	0	0	2	0	2
Dental Surgery	1,227	1,519	54	34	1,281	1,553	2,834
DNE	25	42	2		27	43	70
Dietetic	34	75	2		36	76	112
Еуе	480	642	32	19	512	661	1,173
General Internal Medicine	6,959	8,959	415	267	7,374	9,226	16,600
General Paediatrics	29	40	0	_	29	41	70
Haj Medical Centre	14	10	0	0	14	10	24
Home Based	29	46	0	0	29	46	75
Maxillo-Facial & PRS	15	31	0	0	15	31	46
Nephrology	1,716	1,350	155	29	1,871	1,379	3,250
Occupational Health	2	_	0	0	2		3
Occupational Therapy	13	3	0	0	13	3	16
ORL Surgery	99	92	8	3	107	95	202
Ortho Surgery	77	102	6		83	103	186
Physiotherapy	403	402	14	8	417	410	827
Podiatry	18	29	Ī	0	19	29	48
Primary Health Care	25	81	0	0	25	81	106
Psychiatry	78	41	0	3	78	44	122
TOTAL	11,245	13,465	689	367	11,934	13,832	25,766

Bru-HIMS Report - Visit Statistics By Specialty

Leading Causes of Deaths for the Year 2017 (Based on ICD-10)

The four leading causes of deaths which accounted for 52.5 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
_	C00 - C97	Cancer (Malignant Neoplasms)	159	168	327	19.3	77.6
2	100 - 109, 120 - 152	Heart Diseases (Including Acute Rheumatic Fever)	163	87	250	14.7	59.3
3	EIO - EI4	Diabetes Mellitus	79	92	171	10.1	40.6
4	160 - 169	Cerebrovascular Diseases	78	65	143	8.4	33.9
5	110 - 115	Hypertensive Diseases	51	34	85	5.0	20.2
6	JIO - JI8	Influenza and Pneumonia	31	36	67	4.0	15.9
7	A40 - A41	Septicaemia	28	38	66	3.9	15.7
8	V01 - V99	Transport Accidents	32	4	36	2.1	8.5
9	J40 - J46	Bronchitis, Chronic & Unspecified Emphysema & Asthma	16	18	34	2.0	8.1
10	P00 - P96	Certain Conditions Originating In The Perinatal Period	19	15	34	2.0	8.1
	Others			228	483	28.5	114.6
	T	OTAL DEATHS	911	785	1,696	100.0	402.6

Leading Causes of Deaths (2013 - 2017)

No.	2013	2014	2015	2016	2017
	Cancer (Malignant	Cancer (Malignant	Cancer (Malignant	Cancer (Malignant	Cancer (Malignant
·	Neoplasms)	Neoplasms)	Neoplasms)	Neoplasms)	Neoplasms)
	295 (21.1%)	298 (20.3%)	312 (20.2%)	353 (21.6%)	327 (19.3%)
	Heart Diseases	Heart Diseases	Heart Diseases	Heart Diseases	Heart Diseases
2	(Including Acute	(Including Acute	(Including Acute	(Including Acute	(Including Acute
	Rheumatic Fever)	Rheumatic Fever)	Rheumatic Fever)	Rheumatic Fever)	Rheumatic Fever)
	183 (13.1%)	228 (15.5%)	193 (12.5%)	211 (12.9%)	250 (14.7%)
3	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus
	131 (9.4%)	141 (9.6%)	147 (9.5%)	149 (9.1%)	171 (10.1%)
4	Cerebrovascular	Cerebrovascular	Cerebrovascular	Cerebrovascular	Cerebrovascular
	Diseases	Diseases	Diseases	Diseases	Diseases
	82 (5.9%)	103 (7.0%)	102 (6.6%)	123 (7.5%)	143 (8.4%)
5	Hypertensive Diseases	Hypertensive Diseases	Influenza and	Influenza and	Hypertensive Diseases
3	Typer tensive Diseases	Tryper tensive Diseases	Pneumonia	Pneumonia	Tryper tensive Diseases
	71 (5.1%)	64 (4.4%)	75 (4.8%)	82 (5.0%)	85 (5.0%)
6	Bronchitis, Chronic and	Influenza and	I harantaraina Diagona	I harantaraina Diagona	Influenza and
ь	Unspecified Emphysema & Asthma	Pneumonia	Hypertensive Diseases	Hypertensive Diseases	Pneumonia
	54 (3.9%)	63 (4.3%)	54 (3.5%)	72 (4.4%)	67 (4.0%)
	2 1 (21773)	Bronchitis, Chronic and		, = (, ,	57 (11575)
7	Influenza and	Unspecified Emphysema	Septicaemia	Septicaemia	Septicaemia
	Pneumonia	& Asthma			
	48 (3.4%)	48 (3.3%)	51 (3.3%)	61 (3.7%)	66 (3.9%)
			Bronchitis, Chronic and	Bronchitis, Chronic and	
8	Septicaemia	Septicaemia	Unspecified Emphysema	Unspecified Emphysema	Transport Accidents
	-		& Asthma	& Asthma	
	35 (2.5%)	42 (2.9%)	44 (2.8%)	38 (2.3%)	36 (2.1%)
			Congenital		
_			Malformations,	Certain Conditions	Bronchitis, Chronic and
9	Transport Accidents	Transport Accidents	Deformations and	Originating In The	Unspecified Emphysema
			Chromosomal Abnormalities	Perinatal Period	& Asthma
				22.11.21.11	
	30 (2.1%)	28 (1.9%)	34 (2.2%)	29 (1.8%)	34 (2.0%)
10	Certain Conditions	Certain Conditions	Transport Assidents	Senility Without	Certain Conditions
10	Originating In The Perinatal Period	Originating In The Perinatal Period	Transport Accidents	Mention of Psychosis	Originating In The Perinatal Period
	26 (1.9%)	24 (1.6%)	34 (2.2%)	28 (1.7%)	34 (2.0%)
OTHERS	445 (31.8%)	431 (29.3%)	501 (32.4%)	486 (29.8%)	483 (28.5%)
CDANIE	1.400	1.770	157	1,422	1.00
GRAND TOTAL	1,400 (100.0%)	1,470 (100.0%)	1,547 (100.0%)	1,632 (100.0%)	1,696 (100.0%)
TOTAL	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Leading Causes of Deaths for Population Below 19 Years (2017)

In 2017, 5.7 percent of total deaths were for the age-group (0-18) years old.

Ë	,	percent or cour	deaths were for th	ie age-group (0-16)	years old.	•	
	No.	Under I year	I - 4 years	5 - 9 years	10 - 14 years	15 - 18 years	TOTAL (< 19 years)
		Certain Conditions Originating In The	Heart Diseases (Including Acute	Cancer (Malignant	Cancer (Malignant	Cancer (Malignant	Certain Conditions Originating In The
		Perinatal Period	Rheumatic Fever)	Neoplasms)	Neoplasms)	Neoplasms)	Perinatal Period
		34 (55.7%)	3 (23.0%)	1 (12.5%)	1 (14.2%)	2 (25.0%)	34 (35.1%)
r		Congenital					Congenital
		Malformations,	Accidental Drowning	Cerebrovascular	Cerebrovascular		Malformations,
	2	Deformations and	and Ssubmersion	Diseases	Diseases	Septicaemia	Deformations and
		Chromosomal			2.50050		Chromosomal
		Abnormalities					Abnormalities
L		19 (31.1%)	2 (15.3%)	1 (12.5%)	I (14.2%)	1 (12.5%)	20 (20.6%)
		W	Diarrhoea and	Diseases of	- 400	Diseases of	- and
	3	Cancer (Malignant		Musculoskletal System	Transport Accidents	Musculoskletal System	, , , , , ,
		Neoplasms)	Presumed Infetious	and Connective Tissue		and Connective Tissue	Neoplasms)
		1 (1 (0))	Origin		1 (14 20()		((20()
L		I (I.6%)	1 (7.6%)	1 (12.5%)	I (14.2%)	I (12.5%)	6 (6.2%)
			X .	Congenital			
	4	Influenza and	Septicaemia	Malformations, Deformations and	Accidental Drowning	_	Accidental Drowning
		Pneumonia	Зерисаенна	Chromosomal	and Ssubmersion		and Ssubmersion
				Abnormalities			100
		1 (1.6%)	1 (7.6%)	I (12.5%)	I (14.2%)		4 (4.1%)
r		Chronic Liver	MA I	Assidental Drowning			Heart Diseases
Ь	5	Diseases and	Leukaemia	Accidental Drowning and Ssubmersion	-	-	(Including Acute
		Cirrhosis		and Sabinersion			Rheumatic Fever)
L		I (I.6%)	1 (7.6%)	1 (12.5%)			3 (3.1%)
	6		Influenza and Pneumonia	-	-	-	Septicaemia
		V.					2 (2 (9/)
F			I (7.6%)				2 (2.1%)
	7	-	Transport Accidents	-		-	Cerebrovascular Diseases
			I (7.6%)				
H			1 (7.0%)				2 (2.1%)
	8		192 - 1977		-	-	Influenza and Pneumonia
							2 (2.1%)
F							
							Diseases of Musculoskletal System
	9)• AV	-		-	and Connective
				1			Tissue
			\\\\		_		2 (2.1%)
F	10						Transport Assidants
	10	1				-	Transport Accidents
	1						2 (2.1%)
	OTHER	5	3	3	3	4	20
L	DISEASES	(8.2%)	(23.0%)	(37.5%)	(42.8%)	(50.0%)	(20.6%)
	GRAND	61	13	8	7	8	97
L	TOTAL	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Leading Causes of Premature Deaths (For Aged 30 - 69 years) (2013 - 2017)

In 2017, about 47 percent of total deaths were for the age 30-69 years and the top five leading causes of deaths were comprised Non-Communicable Diseases: Cancer, Heart Diseases, Diabetes Mellitus, Cerebrovascular Diseases; and Hypertensive Diseases.

No.	2013	2014	2015	2016	2017
ı	Cancer (Malignant	Cancer (Malignant	Cancer (Malignant	Cancer (Malignant	Cancer (Malignant
	Neoplasms) 176 (27.5%)	Neoplasms) 173 (25.5%)	Neoplasms) 197 (25.8%)	Neoplasms) 217 (26.6%)	Neoplasms) 193 (24.4%)
	` ′	· · · · · · ·		` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
2	,	, i	Heart Diseases (Including Acute Rheumatic Fever)	i i	
	93 (14.5%)	123 (18.1%)	105 (13.8%)	122 (15.0%)	134 (17.0%)
3	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus
	68 (10.6%)	71 (10.5%)	91 (11.9%)	96 (11.8%)	90 (11.4%)
4	Cerebrovascular Diseases	Cerebrovascular Diseases	Cerebrovascular Diseases	Cerebrovascular Diseases	Cerebrovascular Diseases
	32 (5.0%)	43 (6.3%)	56 (7.3%)	58 (7.1%)	72 (9.1%)
5	Hypertensive Diseases	Hypertensive Diseases	Influenza and Pneumonia	Influenza and Pneumonia	Hypertensive Diseases
	22 (3.4%)	23 (3.4%)	31 (4.1%)	34 (4.2%)	37 (4.7%)
6	Septicaemia	Influenza and Pneumonia	Septicaemia	Septicaemia	Septicaemia
	18 (2.8%)	18 (2.7%)	28 (3.7%)	32 (3.9%)	28 (3.5%)
7	Influenza and Pneumonia	Bronchitis, Chronic and Unspecified Emphysema & Asthma	Hypertensive Diseases	Hypertensive Diseases	Influenza and Pneumonia
	18 (2.8%)	13 (1.9%)	25 (3.3%)	27 (3.3%)	20 (2.5%)
8	Bronchitis, Chronic and Unspecified Emphysema & Asthma	Transport Accidents	Transport Accidents	Transport Accidents	Transport Accidents
	12 (1.9%)	13 (1.9%)	23 (3.0%)	13 (1.6%)	15 (1.9%)
9	Transport Accidents	Bronchitis, Chronic a Septicaemia Unspecified Emphysei & Asthma		Chronic Liver Diseases and Cirrhosis	Diseases of Musculoskeletal System and Connective Tissue
	11 (1.7%)	12 (1.8%)	12 (1.6%)	11 (1.3%)	8 (1.0%)
10	Diseases of Musculoskeletal System and Connective Tissue	Diseases of Skin and Subcutaneous Tissue	Chronic Liver Diseases and Cirrhosis		Bronchitis, Chronic and Unspecified Emphysema & Asthma
	10 (1.6%)	10 (1.5%)	11 (1.4%)	9 (1.1%)	7 (0.9%)
OTHERS	180 (28.1%)	179 (26.4%)	184 (24.1%)	197 (24.1%)	186 (23.5%)
GRAND TOTAL	640 (100.0%)	678 (100.0%)	763 (100.0%)	816 (100.0%)	790 (100.0%)
TOTAL	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Leading Causes of Deaths for Elderly Population Aged 60 years and Above (2013 - 2017)

In 2017, about 62 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.	2013	2014	2015	2016	2017
ı	Cancer (Malignant	Cancer (Malignant	Cancer (Malignant	Cancer (Malignant	Cancer (Malignant
	Neoplasms)	Neoplasms)	Neoplasms)	Neoplasms)	Neoplasms)
	169 (20.5%)	182 (20.5%)	178 (19.3%)	190 (20.1%)	204 (19.5%)
2	Heart Diseases (Including	Heart Diseases (Including	Heart Diseases (Including	Heart Diseases (Including	Heart Diseases (Including
	Acute Rheumatic Fever)	Acute Rheumatic Fever)	Acute Rheumatic Fever)	Acute Rheumatic Fever)	Acute Rheumatic Fever)
	105 (12.7%)	133 (15.0%)	115 (12.5%)	110 (11.6%)	146 (13.9%)
3	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus	Diabetes Mellitus
	98 (11.9%)	95 (10.7%)	94 (10.2%)	89 (9.4%)	117 (11.2%)
4	Cerebrovascular Diseases	Cerebrovascular Diseases	Cerebrovascular Diseases	Cerebrovascular Diseases	Cerebrovascular Diseases
	707/				
11/4	60 (7.3%)	76 (8.5%)	66 (7.1%)	81 (8.6%)	98 (9.4%)
5	Hypertensive Diseases	Hypertensive Diseases	Influenza and Pneumonia	Influenza and Pneumonia	Hypertensive Diseases
	Tryper tensive Diseases	Tryper tensive Diseases	imidenza and i nedmonia	midenza and medinoma	Trypercensive Diseases
	57 (6.9%)	50 (5.6%)	62 (6.7%)	61 (6.4%)	61 (5.8%)
	Bronchitis, Chronic and		Bronchitis, Chronic and		
6	Unspecified Emphysema	Influenza and Pneumonia	Unspecified Emphysema	Hypertensive Diseases	Influenza and Pneumonia
	& Asthma		& Asthma		
	50 (6.1%)	48 (5.4%)	39 (4.2%)	55 (5.8%)	52 (5.0%)
7	Influence and Decomposite	Bronchitis, Chronic and	Lharamania Diagona	Can dian annia	Cardiarania
/	Influenza and Pneumonia	Unspecified Emphysema & Asthma	Hypertensive Diseases	Septicaemia	Septicaemia
	29 (3.5%)	38 (4.3%)	35 (3.8%)	40 (4.2%)	44 (4.2%)
	` '	· · · · · ·	` '	Bronchitis, Chronic and	Bronchitis, Chronic and
8	Senility Without Mention	Septicaemia	Septicaemia	Unspecified Emphysema	Unspecified Emphysema
	of Psychosis	/	-	& Asthma	& Asthma
	23 (2.8%)	29 (3.3%)	31 (3.3%)	33 (3.5%)	29 (2.8%)
			- X-		Diseases of
9	Septicaemia			Senility Without Mention	Musculoskeletal System
		of Psychosis	of Psychosis	of Psychosis	and Connective Tissue
	22 (2.7%)	21 (2.4%)	26 (2.8%)	28 (3.0%)	15 (1.4%)
1	Diseases of Skin and			Diseases of Skin and	
10	Subcutaneous Tissue	Tuberculosis	Tuberculosis	Subcutaneous Tissue	Tuberculosis
/	11 (1.3%)	8 (0.9%)	8 (0.8%)	11 (1.2%)	10 (1.0%)
OTHERS	201 (24.4%)	209 (23.5%)	266 (28.9%)	248 (26.2%)	272 (26.0%)
GRAND	825	889	920	946	1,048
TOTAL	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Health Services

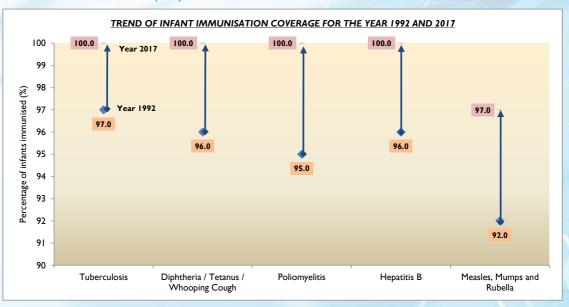
The Department of Health Services, Ministry of Health is responsible for providing public health services in the country. The mission of the department is to promote well-being and prevent ill health, through various activities and programmes that have been developed and established under three main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

	WORKLOAD INDICATORS	2013	2014	2015	2016	2017
1.	Ante Natal Clinic attendances	44,418	44,812	46,471	46,147	47,722
2.	Post Natal Clinic attendances	10,167	9,188	9,986	10,545	10,584
3.	Well Women Clinic Attendances	10,342	10,964	11,525	11,795	13,935
4.	Child (<5) attendances	94,501	86,785	89,929	91,167	86,149

Over the years, immunisation coverage has consistently been 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	2013	2014	2015	2016	2017
% of infants immunised against				. /	
- Tuberculosis (at birth)	100.0	100.0	100.0	100.0	100.0
- Diphtheria/Tetanus/Whooping Cough (Tetract-HIB)3	99.6	99.0	99.0	100.0	100.0
- Poliomyelitis IPV3	99.1	99.0	99.0	100.0	100.0
- Hepatitis B3	97.9	99.5	99.0	100.0	100.0
- Measles, Mumps and Rubella I (MMRI)	96.0	97.0	96.0	98.0	97.0

Source: Maternal and Child Health (MCH) Clinic Data



Maternal and Child Health

PREVALENCE OF ANAEMIA AMONG PREGNANT WOMEN **AT FIRST ANTENATAL CLINIC PRESENTATION (2017)**

	MATERNAL AND CHILD HEALTH (MCH) CLINIC DATA					
	BRUNEI MUARA	BELAIT	TUTONG	TEMBURONG	TOTAL	
NO. OF WOMEN WITH DOCUMENTED RESULT	4,409	846	569	97	5,921	
NORMAL [11 g/dl & above]	3,779	715	481	92	5,067	
MILD ANAEMIA [10 to 10.9 g/dl]	367	79	57	3	506	
MODERATE ANAEMIA [7 to 9.9 g/dl]	207	51	30	2	290	
SEVERE ANAEMIA [6.9 g/dl or less]	36	1	1	0	38	
TOTAL NO. OF PREGNANT WOMEN WITH ANAEMIA	610	131	88	5	834	
% ANAEMIA	13.8	15.5	15.5	5.2	14.1	

Source: Maternal and Child Health (MCH) Clinic Data

REGISTERED LIVEBIRTHS BY BIRTH WEIGHT (2013 - 2017)

	70.00					
Birth Weight	NUMBER OF LIVEBIRTHS					
	2013	2014	2015	2016	2017	
At Least 2500g	5,850	6,037	5,877	5,737	5,684	
Less Than 2500g (LOW BIRTH WEIGHT)	791	819	791	667	730	
- Less Than 1500g (VERY LOW BIRTH WEIGHT)	88	100	97	84	98	
 Less Than 1000g (EXTREMELY LOW BIRTH WEIGHT) 	37	38	32	40	49	
Not Known	39	35	31	33	37	
TOTAL	6,680	6,891	6,699	6,437	6,451	
% Low Birth Weight (Less Than 2500g)	11.84	11.89	18.11	10.36	11.32	

Source:

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

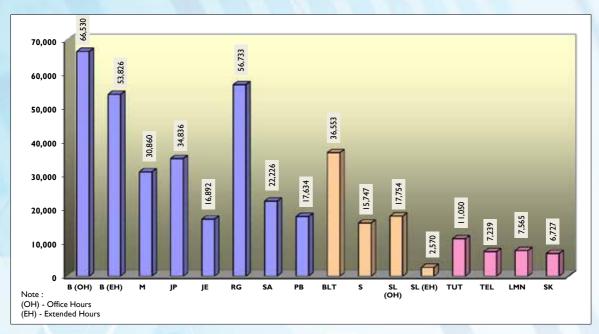
Maternal and Child Health

TOTAL NUMBER OF REGISTERED LIVEBIRTHS BY AGE OF MOTHER (2013 - 2017)

Age Group of Mother	2013	2014	2015	2016	2017
Under I5	7	5	4	3	2
15 - 19	221	197	195	170	164
20 - 24	1,097	1,083	987	920	880
25 - 29	2,124	2,212	2,233	2,101	2,015
30 - 34	1,886	2,042	1,939	1,896	2,030
35 - 39	1,044	1,079	1,064	1,064	1,068
40 - 44	279	254	264	269	271
45 - 49	20	16	13	12	20
50 above	1	2	0	1	0
unknown	1	1	0		1
TOTAL	6,680	6,891	6,699	6,437	6,451
Adolescent Fertility Rate (per 1,000 female population aged (15-19))	12.8	11.3	11.1	9.7	9.3
General Fertility Rate (per 1,000 female population aged (15-49))	57.2	58.6	56.5	54.5	54.0
Total Fertility Rate (per female population aged (15-49))	1.9	1.9	1.8	1.8	1.8

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

General Outpatient Attendances for Health Centres (2017)



BRUNEI MUARA HEALTH CENTRES

B : Berakas Health Centre

M : Muara Health Centre

JP : Jubli Perak Health Centre

Jubli Emas Health Centre

RG : PAP Hjh Muta-Wakkilah Hayatul Bolkiah Health Centre
SA : PAP Hjh Rashidah Sa'adatul Bolkiah Health Centre

PB : Pengkalan Batu Health Centre

JE

BELAIT HEALTH CENTRES TUTONG HEALTH CENTRES

Belait Health Centre

Seria Health Centre

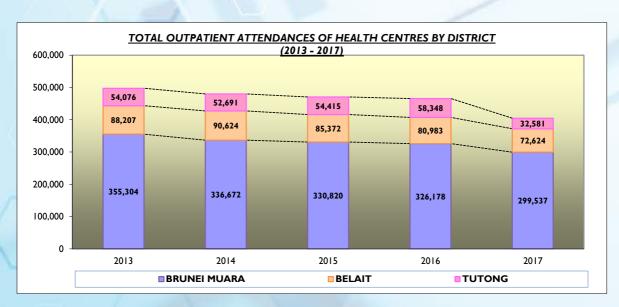
Sungai Liang Health Centre

TUT : Tutong Health Centre

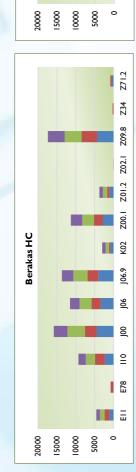
TEL : Telisai Health Centre

LMN : Lamunin Health Centre

SK : Sungai Kelugos Health Centre

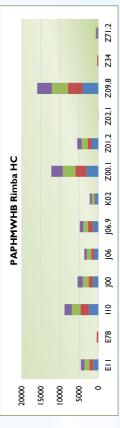


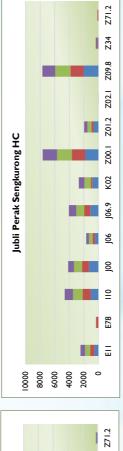
Leading Morbidity Attendances of Health Centres in Brunei Muara District by quarterly (2017)



Muara HC

8000 0009 4000 2000





Z34

8.60Z

Z00.1 Z01.2 Z02.1

K02

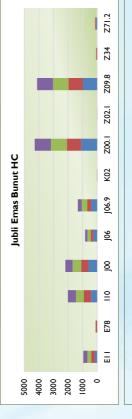
6.90

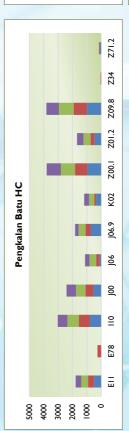
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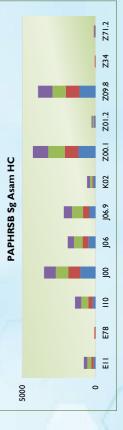
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E78







Oct-Dec

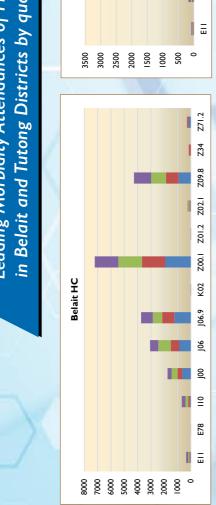
Jul-Sep

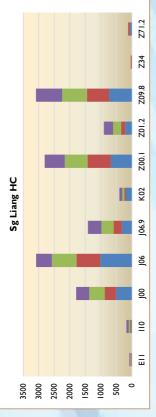
Apr-Jun

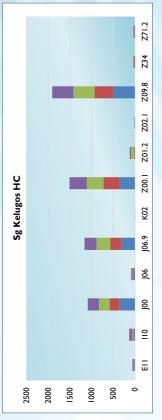
Jan-Mac

Note: Refer to Appendix (page 70) for the diseases' description of ICD 10 codes

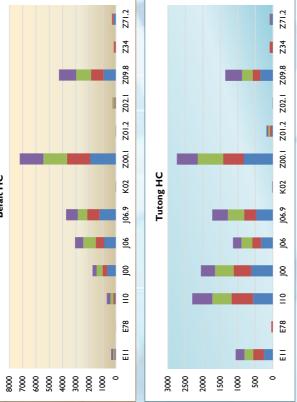
Leading Morbidity Attendances of Health Centres in Belait and Tutong Districts by quarterly (2017)

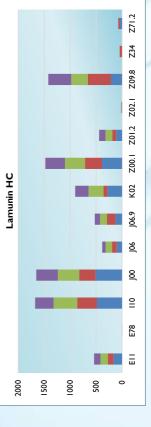












Note: Refer to Appendix (page 70) for the diseases' description of ICD10 codes Source: Bru-HIMS EIS Data

Notifiable Infectious Diseases (2017)

Notification of infectious diseases is required by Brunei 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	TOTAL
FOOD AND WATER BORNE DISEASES					
Campylobacter Upsaliensis	0	0	0	0	0
Cholera	0	0	0	0	0
Dysentery (Shigella)	0	0	0	0	0
Food Poisoning	18	4	1	15	38
Gastroenteritis	3,228	230	80	938	4,476
Hepatitis A	7	0	0	0	7
Para/Typhoid Fever	0	0	0	0	0
Salmonella Infection	16	1	0	5	22
Total	3,269	235	81	958	4,543
PERSON TO PERSON TRANSMITTED DISEASES					
Chicken Pox	1,495	274	137	620	2,526
Ebola Fever	0	0	0	0	0
Hand, Foot & Mouth Disease	1,395	119	63	424	2,001
Influenza A	3	0	0	7	10
Influenza B	0	0	0	0	0
Influenza Others	0	0	0	0	0
Leprosy	1		0	0	2
Meningitis	5	0	0	- 1	6
Scarlet Fever	2	0	0	1	3
Severe Acute Respiratory Syndrome	0	0	0	0	0
Total	2,901	394	200	1,053	4,548
VACCINE PREVENTABLE DISEASES					
Diphtheria	0	0	0	0	0
Hepatitis B	26	0	0	- 1	27
Measles	0	0	0	0	0
Mumps	0	0	0	0	0
Pertussis	0	0	0	0	0
Acute Flaccid Paralysis (AFP)	1	0	0	0	1
Rubella	1	0	0	0	1
Smallpox	0	0	0	0	0
Tetanus	0	0	0	0	0
Tetanus Neonatorum	0	0	0	0	0
Tuberculosis	161	31	6	42	240
Total	189	31	6	43	269

Notifiable Infectious Diseases (2017) (cont'd)

DISTACES	ВМ	TUT	TEM	КВ	TOTAL
DISEASES SEXUALLY TRANSMITTED DISEASES	ВМ	101	IEM	KB	TOTAL
AIDS	0	0	0	0	0
Chancroid	1	0	0	0	1
Chlamydial Infection	30	0	0	0	30
Genital Herpes	1	0	0	0	1
Gonococcal Infections	13		0	0	14
Hepatitis C	9	0	0	l	10
HIV * (Local only)	21	5	2	4	32
Non Gonococcal Urethritis	0	0	0	0	0
Opthalmia Neonatorum	0	0	0	0	0
Syphilis (All forms)	246	40	19	50	355
Other STI - Genital Warts, Trichomonas Vaginalis	Ш	0	0	0	- 11
Total	332	46	21	55	454
VECTOR BORNE DISEASES					
Chikugunya	0	0	0	0	0
Dengue Fever	34	14	21	4	73
Dengue Haemorhagic Fever		0	I I	0	2
Filariasis	0	I	0	0	1
Leptospirosis	0	0	0	0	0
Malaria	1	0	7	0	8
Plague	0	0	0	0	0
Typhus	0	0	0	0	0
West Nile Fever	0	0	0	0	0
Yellow Fever	0	0	0	0	0
Zika Virus Infection	0	0	0	0	0
Total	36	15	29	4	84
ZOONOTIC DISEASES					
Anthrax	0	0	0	0	0
Bovine Spongiform Encephalitis	0	0	0	0	0
Nipah Virus	0	0	0	0	0
Rabies	0	0	0	0	0
Total	0	0	0	0	0
OTHER INFECTIOUS DISEASES					
Conjunctivitis (Chlamydia)	1	0	0	0	
Encephalitis	0	0	0	0	0
Japanese Encephalitis	0	0	0	0	0
Puerperal Infection	0	0	0	0	0
Scabies	5	0	0	0	5
Viral Encephalitis	0	0	0	0	0
Viral Hepatitis	0	0	0	0	0
Total	6	0	0	0	6
GRAND TOTAL	6,733	721	337	2,113	9,904
Note: * Indicate incidence of AIDS/HIV cases amongst local				_,,,,,	.,

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

Mortality Due to Cancer for the Year 2017

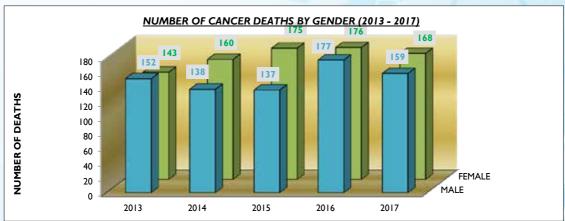
The top three types of cancer deaths among male in Brunei Darussalam for 2017 were Trachea, Bronchus and Lung; Rectum and Anus; and Stomach; and for female cancer deaths were Breast; Trachea, Bronchus and Lung; and; and Rectum and Anus.

TYPE OF CANCER	MALE	FEMALE	TOTAL
Trachea, Bronchus and Lung	29	23	52
Rectum and Anus	23	16	39
Breast	0	30	30
Stomach	16	6	22
Colon	13	8	21
Liver and Intrahepatic Bile Ducts	11	7	18
Leukaemia	8	5	13
Prostate	12		12
Cervix Uteri		- 11	11
Non-Hodgkin's Lymphoma	6	4	10
Lip, Oral Cavity and Pharynx	7	2	9
Other and Unspecified Parts of Uterus		8	8
Ovary		8	8
Pancreas	I	6	7
Meninges, Brain and Other Parts of Central Nervous System	3	3	6
Multiple Myeloma and Malignant Plasma Cell Neoplasms	2	2	4
Bladder	1	3	4
Larynx	2	1	3
Oesophagus	T		2
Skin	0	1/	1
Others	24	23	47
TOTAL	159	168	327

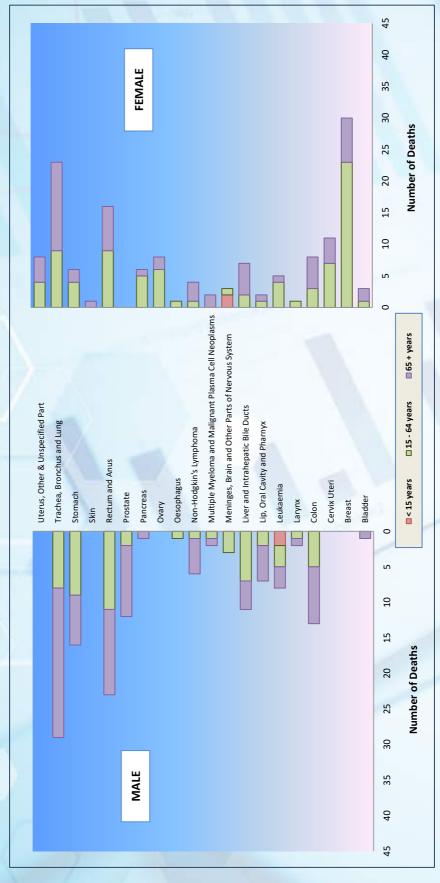
Note: Top three leading types of cancer death for male

U	/ female	U		
				Т

YEAR	2013	2014	2015	2016	2017
TOTAL NUMBER OF CANCER DEATHS	295	298	312	353	327



Cancer Deaths by Gender, Type and Age-Groups in Brunei Darussalam (2017)



Trend in Leading Types of Cancer Deaths in Brunei Darussalam (2013 - 2017)

No.	2013	2014	2015	2016	2017
I	Trachea, Bronchus and Lung	Trachea, Bronchus and Lung	Trachea, Bronchus and Lung	Trachea, Bronchus and Lung	Trachea, Bronchus and Lung
	64 (21.7%)	62 (20.8%)	52 (16.7%)	68 (19.3%)	52 (15.9%)
	, ,	. , ,	, ,	, ,	
2	Rectum and Anus	Breast	Breast	Breast	Rectum and Anus
	30 (10.2%)	30 (10.1%)	33 (10.6%)	42 (11.9%)	39 (11.9%)
3	Liver and Intrahepatic Bile Duct	Liver and Intrahepatic Bile Duct	Rectum and Anus	Rectum and Anus	Breast
	21 (7.1%)	23 (7.7%)	32 (10.3%)	32 (9.1%)	30 (9.2%)
4	Breast	Stomach	Liver and Intrahepatic Bile Duct	Lip, Oral Cavity and Pharynx	Stomach
	20 (6.8%)	21 (7.0%)	28 (9.0%)	21 (5.9%)	22 (6.7%)
5	Colon	Rectum and Anus	Non-Hodgkin's Lymphoma	Liver and Intrahepatic Bile Duct	Colon
	17 (5.8%)	18 (6.0%)	16 (5.1%)	20 (5.7%)	21 (6.4%)
6	Lip, Oral Cavity and Pharynx	Non-Hodgkin's Lymphoma	Lip, Oral Cavity and Pharynx	Stomach	Liver and Intrahepatic Bile Duct
	13 (4.4%)	18 (6.0%)	14 (4.5%)	18 (5.1%)	18 (5.5%)
7	Ovary	Colon	Ovary	Colon	Leukaemia
	13 (4.4%)	17 (5.7%)	12 (3.8%)	14 (4.0%)	13 (4.0%)
8	Leukaemia	Leukaemia	Colon	Pancreas	Prostate
	13 (4.4%)	15 (5.0%)	11 (3.5%)	14 (4.0%)	12 (3.7%)
9	Cervix Uteri	Prostate	Pancreas	Cervix Uteri	Cervix Uteri
	11 (3.7%)	12 (4.0%)	11 (3.5%)	12 (3.4%)	11 (3.4%)
10	Non-Hodgkin's Lymphoma	Cervix Uteri	Stomach	Prostate	Non-Hodgkin's Lymphoma
	11 (3.7%)	11 (3.7%)	10 (3.2%)	11 (3.1%)	10 (3.1%)
OTHERS	82 (27.8%)	71 (23.8%)	93 (29.8%)	101 (28.6%)	99 (30.3%)
GRAND TOTAL	295 (100.0%)	298 (100.0%)	312 (100.0%)	353 (100.0%)	327 (100.0%)

Incidence and Mortality of Malignant Cancer (2013 - 2017)

NCIDENCE State S						NUMBER OF CASES	OF CASES				
State Stat	TYPE OF CANCER			INCIDENCE					MORTALITY		
77 81 90 101		2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Bronchus and Lung 70 64 70 66		77	18	06	101	80	25	26	13	01	4
Cavity and Pharynx 27 44 55 64 Let it 27 16 35 31 agkin's Lymphoma 31 29 33 28 ad Unspecified Parts of Uterus 22 21 25 21 ia 8 22 21 15 18 ia 8 22 21 13 Intrahepatic Bile Ducts 31 29 30 20 Ayeloma and Malignant Plasma Cell Neoplasms 4 3 6 5 Ayeloma and Malignant Plasma Cell Neoplasms 4 3 6 5 s, Brain and Other Parts of Central Nervous System 8 4 9 7 gus 1 1 2 0 1 1 2 5 3 5 3 2 5 3 5 3 5 3 2 5 3 5 9 4 4 9 7 9 6 5 9 5 5 5 5 <td< td=""><td>hus and Lung</td><td>02</td><td>64</td><td>70</td><td>99</td><td>59</td><td>09</td><td>49</td><td>51</td><td>3-</td><td>25</td></td<>	hus and Lung	02	64	70	99	59	09	49	51	3-	25
Cavity and Pharynx 27 16 35 31 Iteri 31 29 33 28 algkin's Lymphoma 39 27 32 31 id Unspecified Parts of Uterus 22 21 25 21 ia 8 22 21 13 ia 8 22 21 13 Intrahepatic Bile Ducts 31 29 30 20 Myeloma and Malignant Plasma Cell Neoplasms 4 3 6 5 b. Brain and Other Parts of Central Nervous System 8 4 9 7 gus 1 1 2 0 1 igus 1 1 2 0 1		57	4	55	64	52	27	15	8	=	9
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131 29 33 28 138 1 27 32 31 14 1 18 21 25 21 15 1 18 21 25 21 16 1 20 21 18 25 1 Intrahepatic Bile Ducts 8 22 21 13 1 Intrahepatic Bile Ducts 31 29 30 20 27 26 26 19 9 9 5 14 Myeloma and Malignant Plasma Cell Neoplasms 4 3 6 5 5, Brain and Other Parts of Central Nervous System 8 4 9 7 1 1 2 3 5 1 1 2 0 1 1 2 0 1 1 2 0 1 2 0 1	and Pharynx	27	91	35	3.	36	4	2	4	9	4
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ia Intrahepatic Bile Ducts Central Nervous System Ageins and Other Parts of Central Nervous System Bile Buck Bile Bile Bile Bile Bile Bile Bile Bile	Lymphoma	39	27	32	3	32	4	17	6	∞	4
ia III		<u>8</u>	21	25	21	30	12	6	m	-	3
ia 8 22 21 13 18 18 18 18 19 19 19 19 19 19 19 19 20 20 20 20 20 20 20 20 20 20 20 20 20	pecified Parts of Uterus	22	21	37	25	28	9	9	7	7	0
ia 1	3	20	21	15	<u>∞</u>	27	4	<u>&</u>	6	E	∞
Intrahepatic Bile Ducts		80	22	21	<u>8</u>	21	2	12	=	2	6
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60 03 06 130		100	2	0		0	0		0	0	0
751 50 50 70	No. of the last of	69	83	85	139	109	25	35	25	29	20
ALL SITES 563 552 636 665 619		563	552	989	999	619	294	273	231	179	107

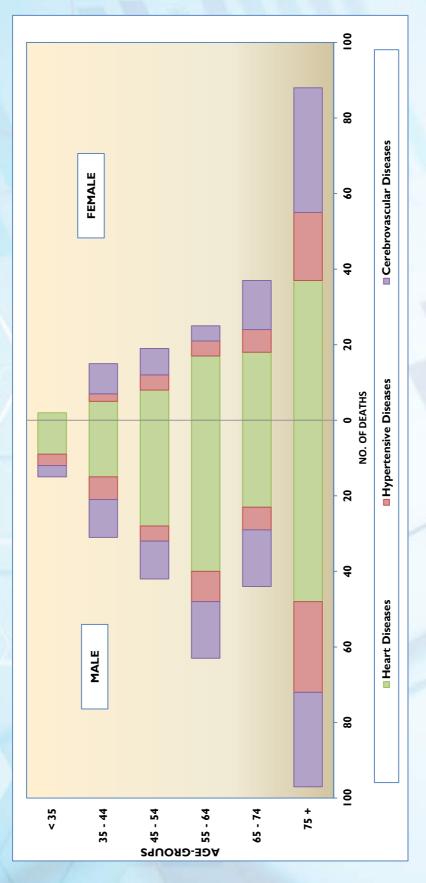
Note: Incidence and mortality data on malignant cancers among citizens and permanent residents.

Source: Brunei Darussalam Cancer Registry, NCD Prevention and Control Unit

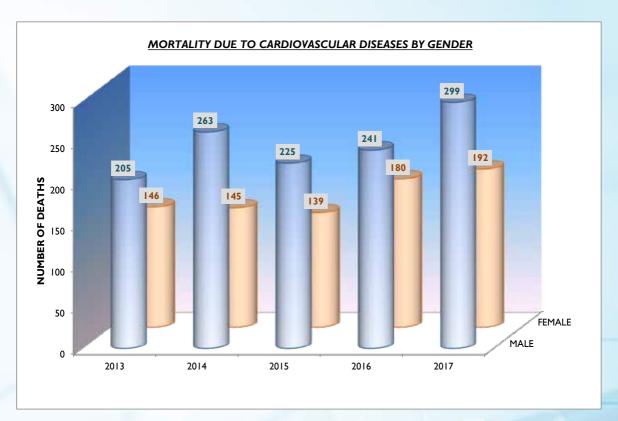
Mortality due to Cardiovascular Diseases for the Year 2017 (Based on ICD-10)

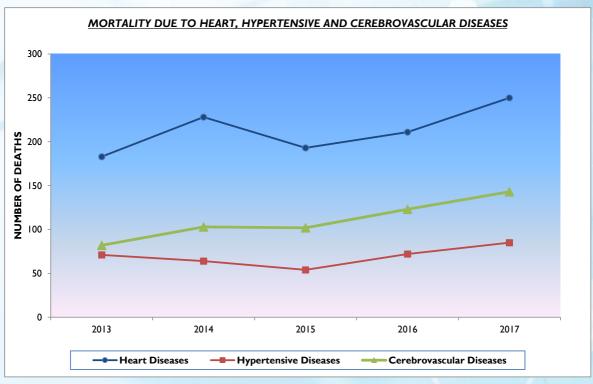
L																		
										AGE-GF	AGE-GROUP IN YEARS	YEARS						
	0	ICD-10 CODE	TYPE OF DISEASE	V	<35	35 -	4	45 -	. 54	- 55	- 64	- 59	- 74	75+	±		TOTAL	
				Σ	F	Σ	F	Σ	F	Σ	F	Σ	F	Σ	F	W	F	7
_	⊒	100 - 109, 120 - 152	Heart Diseases	6	2	15	2	28	8	40	11	23	81	48	37	891	87	250
		100 - 109	Acute Rheumatic Fever & Chronic Rheumatic Heart Diseases	_	0	0	0	-	0	0	0	-	0	0	0	3	0	3
	:=	120 - 125	Ischaemic Heart Diseases	4	0	13	3	24	4	36	13	16	=	38	22	131	53	184
		121	Acute Myocardial Infarction	3	0	8	2	13	2	22	8	01	7	61	14	7.5	33	108
		120, 122 - 125	Other Ischaemic Diseases	- \	0	5	-	=	2	14	2	9	4	61	80	95	20	9/
	≔	126 - 152	Diseases of Pulmonary Circulation & Other Forms of Heart Diseases	4	2	2	2	3	4	4	4	9	7	10	15	29	34	63
7		110 - 115	Hypertensive Diseases	3	0	9	2	4	4	8	4	9	9	24	18	51	34	85
ĸ	- 14	160 - 169	Cerebrovascular Diseases	3	0	01	8	01	7	15	4	15	13	25	33	28	99	143
4		170 - 198	Other Diseases of the Circulatory System	0	0	-	-	-	0	2	-	-	-	2	3	7	9	13
		170	Atherosclerosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-	(,)	171 - 198	Others	0	0	_	<i>_</i>	/-	0	2		-	-	2	3	7	6	13
_	I to 4	100 - 198	All Cardiovascular Diseases	15	2	32	91	43	61	9	26	45	38	66	91	299	192	491
I																		

by Age-Groups and Gender in Brunei Darussalam (2017) Mortality due to Cardiovascular Diseases



Mortality Trend of Cardiovascular Diseases (2013 - 2017)





Age Standardised Mortality Rate - Noncommunicable Diseases (NCDs) (2011-2017)

Mortality Rate by Diseases	ses	1107	2012 _(i)	2013 (*)	2014 (r)	2015 (י)	2016 (י)	2017
:	Male	395.4	374.7	411.9	434.2	329.5	337.9	362.8
Noncommunicable Diseases (NCDs) (Cancer, Cardiovascular, Diabetes Mellitus, and Chronic Respiratory Diseases)	, Female	330.9	345.0	388.9	344.5	345.0	275.5	290.8
	Total	360.6	358.0	397.6	388.3	334.3	304.6	323.3
	Male	129.6	142.5	126.2	116.1	1.901	0.211	107.9
Cancer	Female	104.3	115.4	125.1	127.3	124.0	4.101	93.7
	Total	0.911	128.9	125.4	120.9	0.211	5'201	5'66
	Male	6'55'1	132.2	163.0	200.7	2.141	140.0	179.6
Cardiovascular Diseases	Female	128.7	126.0	1.95.7	130.5	123.8	9.111	118.7
	Total	141.0	127.3	157.3	166.0	9.081	125.2	146.6
	Male	62.5	64.5	62.3	72.9	55.9	9:85	51.0
Diabetes Mellitus	Female	6.72	70.2	67.2	51.7	48.9	37.7	55.4
	Total	60.1	67.3	64.8	61.9	52.1	47.5	53.5
	Male	47.4	35.5	60.3	44.5	25.7	24.2	24.3
Chronic Respiratory Disease	Female	40.0	33.4	39.9	35.0	48.3	24.8	22.9
	Total	43.4	34.5	50.1	39.5	36.6	24.3	23.7
	24214 200000							

Note: Age standardised mortality rate per 100,000 for NCDS among citizens and permanent pesidents

Data for the years 2012-2015 have been revised due to the revised population data based on 2016 census data.

- Noncommunicable Diseases (NCDs) (2011-2017) Premature Age Standardised Mortality Rate

254.2 262.3 307.4 296.3 132.1 104.8 127.0 117.3 129.4 111.4
127.0
129.4
146.3
-
114.5
111.2
Male

Note: Premature age standardised mortality rate per 100,000 (for aged 30 - 69 years) among citizens and permanent pesidents

Data for the years 2012-2015 have been revised due to the revised population data based on 2016 census data.

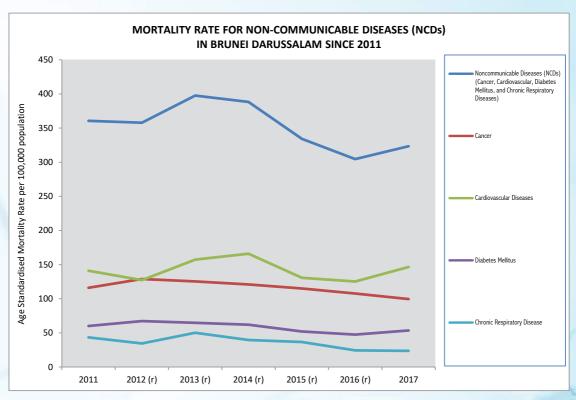
Probability of Premature Deaths - Noncommunicable Diseases (NCDs) (2011-2017)

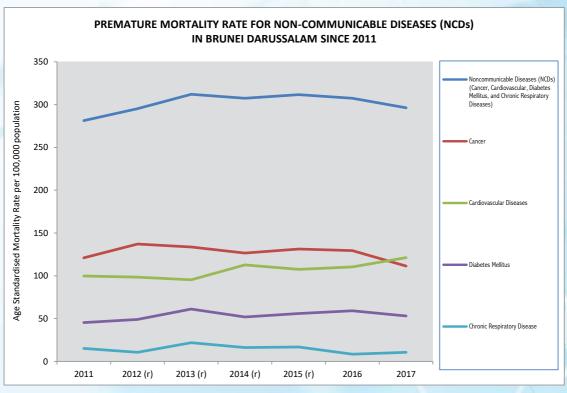
				+					
Mortality Rate by Diseases	es	2011	2012 ^(r)	2013 (r)	2014 (r)	2015 (r)	2016	2017	
:	Male	14.8%	%2'91	16.4%	17.2%	%9'51	16.7%	15.7%	
Noncommunicable Diseases (NCDs) (Cancer, Cardiovascular, Diabetes Mellitus, and Chronic Respiratory Diseases)	Female	13.2%	13.2%	14.8%	13.4%	%0'51	12.4%	12.9%	
	Total	14.0%	%2'41	%9·S1	15.4%	%8:51	14.4%	14.3%	
	Male	7.2%	%6'9	%9'9	2.9%	%5'5	%9.9	%9:5	
Cancer	Female	2.6%	%0'.2	7.4%	7.2%	8.1%	6.1%	2.8%	
	Total	6.4%	%0'.	%0'.	%5'9	%8'9	%8'9	%2'5	
	Male	5.2%	%0'9	%9'5	8.2%	%E' <i>L</i>	% 9 .9	%8'.	
Cardiovascular Diseases	Female	4.8%	%5'4	3.8%	3.6%	%S'E	4.3%	4.4%	
	Total	2.0%	%8'5	4.7%	%0'9	%5'5	5.4%	%0:9	•
	Male	2.4%	3.5%	3.5%	3.2%	%0'ε	3.9%	2.7%	
Diabetes Mellitus	Female	2.5%	<i>%L</i> '1	3.4%	2.6%	%6'7	2.2%	2.6%	
	Total	2.4%	2.7%	3.5%	2.9%	%0'ε	3.0%	2.6%	
	Male	0.7%	%£'0	% <i>L</i> 'I	1.0%	%£'0	%2'0	%5'0	
Chronic Respiratory Disease	Female	0.9%	%9:0	%0·I	0.7%	1.2%	0.3%	0.7%	
	Total	%8'0	%9'0	1.4%	%8:0	%6'0	0.5%	%9:0	•
Later Death abiliary of house and an adea from	OC Feer Stand		and the second second						

Note: Probability of premature deaths from NCDs (for aged 30 - 69 years) among citizens and permanent pesidents

Data for the years 2012-2015 have been revised due to the revised population data based on 2016 census data.

Trend of Age Standardised Mortality Rate - Noncommunicable Diseases (NCDs) (2011-2017)





Brunei STEPS Survey 2015 / 16

The STEPS survey of NCD risk factors in Brunei Darussalam was carried out from August 2015 to April 2016. Brunei Darussalam carried out three (3) steps to collect data : Step I on Socio Demographic and Behavioural Information; Step 2 on Physical Measurements such as Height, Weight and Blood Pressure; and Step 3 on Biochemical Measuremenrs to Access Blood Glucose and Cholesterol Levels. A total of 3808 adults aged 18-69 years old participated in the survey.

TOBACCO USE	Male	Female	Total
Percentage who currently smoke tobacco	36.3	3.7	19.9
2. Percentage who currently smoke tobacco daily	24.8	1.8	13.3
- For those who smoke tobacco daily			
3. Average age started smoking (years)	16.9	19.4	17.1
Percentage of daily smokers smoking manufactured cigarettes	99.2	97.2	99.1
Mean number of manufactured cigarettes smoked per day 5. (by smokers of manufactured cigarettes)	9.1	10.0	9.1

	DIET	Male	Female	Total
1.	Mean number of days fruit consumed in a typical week	3.1	3.2	3.2
2.	Mean number of servings of fruit consumed on average per day	0.9	0.9	0.9
3.	Mean number of days vegetables consumed in a typical week	4.9	5.2	5.0
4.	Mean number of servings of vegetables consumed on average per day	1.5	1.6	1.6
5.	Percentage who ate less than 5 servings of fruit and/or vegetables on average per day	92.3	91.0	91.7
6.	Percentage who always or often add salt or salty sauce to their food before eating or as they are eating	22.8	20.9	21.8
7.	Percentage who always or often eat processed foods high in salt	21.4	17.7	19.5

Brunei STEPS Survey 2015 / 16

PHYSICAL MEASUREMENTS	Male	Female	Total
I. Mean body mass index	27.3	27.2	27.2
2. Percentage who are overweight	0.9	0.9	0.9
3. Percentage who are obese	4.9	5.2	5.0
4. Average waist circumference	1.5	1.6	1.6
Percentage with raised BP (SBP \geq 140 and/or DBP \geq 90 mmHg 5. or currently on medication for raised BP)	30.2	25.8	28.0
Percentage with raised BP (SBP ≥ 140 and/or DBP ≥ 90 mmHg) who 6. are not currently on medication for raised BP)	58.7	37.6	48.9

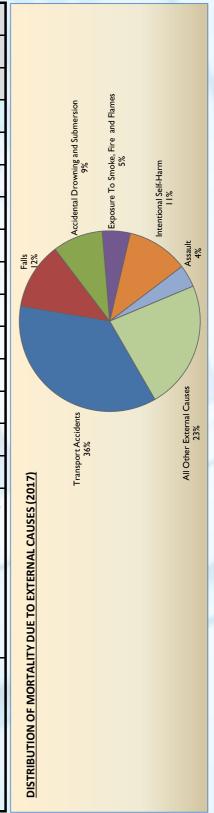
BIOCHEMICAL MEASUREMENTS	Male	Female	Total
Percentage with raised total cholesterol (≥ 5.0mmol/L or ≥ 190 I. mg/dl or currently on medication for raised cholesterol) or currently on medication for raised BP)	51.6	51.0	51.3
2. Mean intake of salt per day (in grams)	11.5	8.5	10.0

CARDIOVASCULAR (CVD) DISEASE RISK	Male	Female	Total
Percentage aged 40-69 years with a 10-year CVD risk ≥ 30%, or I. with existing CVD **	9.7	8.2	8.9

^{** -} A 10-year CVD risk of ≥ 30% is defined to age, sex, blood pressure, smoking status (current smokers or those who quit smoking less tham I year before the assessment), total cholesterol, and diabetes (previously diagnosed OR a fasting plasma glucose concentration > 7.0 mmol/l (126mg/dl).

Mortality due to External Causes for the Year 2017 (Based on ICD-10)

								AGE-GROUP IN YEARS	OUP IN	YEARS						
ICD-10 CODE	TYPE OF DISEASE	SE>	5	35	35 - 44	45 - 54	54	55 - 64	64	65 - 74	74	75+	<u>+</u>		TOTAL	
		Σ	F	М	Н	Σ	F	Σ	F	Σ	Ь	Σ	H	W	F	7
667-107	Transport Accidents	١2	3	4	0	2		0	0		0	5	0	32	4	36
61W-00W	Falls	7	0	0	0	1	0	0	0	0	-	9	7	6	3	12
W65-W74	Accidental Drowning and Submersion	9	0	0	0	-	0	0	0	2	0	0	0	6	0	6
X00-X09	Exposure To Smoke, Fire and Flames	0	0	0	0	1	0	2	0	0	2	0	0	3	2	5
X40-X49	Accidental Poisoning By and Exposure To Noxious Substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
X60-X84	Intentional Self-Harm	8	0	7	0	0	0	_	0	0	0	0	0	11	0	11
X85-Y09	Assault	0	-	7	0	0	0	0	0	0	_	0	0	2	2	4
Y40-Y59	Drugs, Medicaments Causing Adverse Effects In Therapeutic Use	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W20-W64, W75-W99, X10-X39, X50-X59, Y10-Y36, Y60-Y98	All Other External Causes	2	(2	0	2	0	4	_	1	_	2	7	13	10	23
V0I - Y98	Total External Causes of Mortality	35	5	01	0	01	_	7	_	4	5	13	6	79	21	100



Leading Causes of Hospital Inpatient Morbidity for the Year 2017 (Based on ICD-10)

No.	ICD-10 CODE	TYPE OF DISEASE	MALE	FEMALE	TOTAL	%	RATE PER 100,000 POPULATION
1	J10 - J22	Acute Lower Respiratory Infections	1,378	1,164	2,542	4.2	603.4
2	A09	Diarrhoea and Gastroenteritis of Presumed Infections Origin	778	575	1,353	2.2	321.1
3	J00 - J06	Acute Upper Respiratory Infections	685	635	1,320	2.2	313.3
4	D50 - D64	Iron Deficiency Anaemias	664	603	1,267	2.1	300.7
5	J45 - J46	Asthma	708	548	1,256	2.1	298.1
6	100 - 109, 120 - 152	Heart Diseases	679	463	1,142	1.9	271.1
7	N17 - N19	Renal Failure	563	473	1,036	1.7	245.9
8	O00 - O08	Pregnancy With Abortive Outcome		1,021	1,021	1.7	242.3
9	L00 - L08	Infections of Skin and Subcutaneous Tissue	543	376	919	1.5	218.1
10	N80 - N98	Non-Inflammatory Disorders of Female Genital Tract		900	900	1.5	213.6
=	\$02, \$12, \$22, \$32, \$42, \$52, \$62, \$72, \$82, \$92, T02,T08, T10, T12	Fracture of Specified and Multiple Body Regions	547	335	882	1.4	209.4
12	K80 - K81	Cholelithiasis and Cholecystitis	318	392	710	1.2	168.5
13	N20 - N23	Urolithiasis	471	204	675	/ 1.1	160.2
14	A40 - A41	Septicaemia	295	377	672	1.1	159.5
15	E10 - E14	Diabetes Mellitus	297	309	606	1.0	143.8
		Others	18,213	26,605	44,819 *	73.3	10638.3
	TOTAL IN	NPATIENT MORBIDITY	26,139	34,980	61,120	100.0	14507.5

Note: * - Including I unknown

Leading Causes of Hospital Inpatient Morbidity by Hospital for the Year 2017

			HOSF	PITALS		
	No.	RIPAS	SSB	РММРМНАМВ	PIHM	ALL DISTRICTS
	1	Acute Lower Respiratory Infections 1,821 (3.8%)	Acute Lower Respiratory Infections 401 (4.9%)	Acute Lower Respiratory Infections 283 (8.2%)	Fever of Unknown Origin	Acute Lower Respiratory Infections 2,542 (4.2%)
	2	Diarrhoea and Gastroenteritis of Preseumed Infectious Origin	Acute Upper Respiratory Infections	Diarrhoea and Gastroenteritis of Preseumed Infectious Origin	Hypertensive Diseases	Diarrhoea and Gastroenteritis of Preseumed Infectious Origin
		891 (1.9%)	253 (3.1%)	180 (5.2%)	77 (5.3%)	1,353 (2.2%)
	3	Iron Deficiency Anaemias	Heart Diseases	Asthma	Diarrhoea and Gastroenteritis of Preseumed Infectious Origin	Acute Upper Respiratory Infections
	-77	871 (1.8%)	219 (2.7%)	175 (5.0%)	73 (5.1%)	1,320 (2.2%)
	4	Acute Upper Respiratory Infections	Diarrhoea and Gastroenteritis of Preseumed Infectious Origin	Cataract	Abdominal and Pelvic Pain	Iron Deficiency Anaemias
	(1)	855 (1.8%)	209 (2.5%)	147 (4.2%)	72 (5.0%)	1,267 (2.1%)
	5	Asthma	Asthma	Acute Upper Respiratory Infections	Acute Upper Respiratory Infections	Asthma
В		851 (1.8%)	198 (2.4%)	141 (4.1%)	71 (4.9%)	1,256 (2.1%)
	6	Pregnancy With Abortive Outcome	Non-Inflammatory Disorders of Female Genital Tract	Diabetes Mellitus	Diabetes Mellitus	Heart Diseases
		849 (1.8%)	174 (2.2%)	137 (4.0%)	60 (4.2%)	1,142 (1.9%)
	7	Renal Failure	Renal Failure	Heart Diseases	Gastritis and Duodenitis	Renal Failure
		800 (1.7%)	166 (2.0%)	103 (3.0%)	40 (2.7%)	1,036 (1.7%)
	8	Fractures of Specified and Multiple Body Regions	Pregnancy With Abortive Outcome	Hypertensive Diseases	Acute Lower Respiratory Infections	Pregnancy With Abortive Outcome
		794 (1.7%)	157 (1.9%)	103 (3.0%)	37 (2.6%)	1,021 (1.7%)
	9	Heart Diseases	Infections of Skin and Subcutaneous Tissue	Respiratory TB	Asthma	Infections of Skin and Subcutaneous Tissue
		793 (1.7%)	151 (1.8%)	94 (2.7%)	32 (2.2%)	919 (1.5%)
	10	Non-Inflammatory Disorders of Female Genital Tract	Iron Deficiency Anaemias	Bronchitis Emphysema and Other Chronic Obstractive Pulmonary Diseases	Infections of Skin and Subcutaneous Tissue	Non-Inflammatory Disorders of Female Genital Tract
		708 (1.5%)	145 (1.8%)	55 (1.5%)	29 (2.0%)	900 (1.5%)
0	THERS	38,765 (80.8%)	6,145 (74.8%)	2,048 (59.1%)	772 (53.7%)	48,364 (79.1%)
	RAND	47,998 (100.0%)	8,218 (100.0%)	3,466 (100.0%)	1,438 (100.0%)	61,120 (100.0%)
_		LIMS Data				

Leading Causes of Hospital Outpatient Morbidity for the Year 2017 (Based on ICD-10)

No.	ICD-10 CODE	TYPE OF DISEASE	MALE	FEMALE	TOTAL	%	RATE PER 100,000 POPULATION
-	EI0 - EI4	Diabetes Mellitus	8,220	10,369	18,589	3.7	4412.3
2	K00 - K01, K03 - K08	Other Disorders of Teeth and Supporting Structures	6,774	8,411	15,185	3.1	3604.3
3	N17 - N19	Renal Failure	7,275	5,882	13,157	2.7	3123.0
4	110 - 115	Hypertensive Diseases	5,321	5,828	11,149	2.2	2646.3
5	O20 - O29, O60 - O63, O67 - O71, O73 - O75, O81 - O84	Other Complications of Pregnancy and Delivery		9,135	9,135	1.8	2168.3
6	N80 - N98	Non-Inflammatory Disorders of Female Genital Tract		8,453	8,453	1.7	2006.4
7	K02	Dental Caries	3,578	4,473	8,051	1.6	1911.0
8	H52	Disorders of Refraction and Accomodation	3,627	4,268	7,895	1.6	1874.0
9	S02, S12, S22, S32, S42, S52, S62, S72, S82, S92, T02, T08, T10, T12	Fracture of Specified and Multiple Body Regions	4,350	2,755	7,105	1.4	1686.4
10	100 - 109, 120 - 152	Heart Diseases	2,800	2,092	4,892	1.0	1161.2
П	J00 - J06	Acute Upper Respiratory Infections	2,269	2,596	4,865	1.0	1154.8
12	J40 - J46	Bronchitis, Chronic and Unspecified Emphysema and Asthma	2,371	2,321	4,692	0.9	1113.7
13	D50 - D64	Anaemias	1,731	2,760	4,491	0.9	1066.0
14	F20 - F29	Schizophrenia, Schizotypal, and Delusional Disorders	1,954	1,550	3,504	0.7	831.7
15	N20 - N23	Urolithiasis	2,422	1,011	3,433	0.7	814.9
	0	thers	171,129	200,124	371,253	74.9	88120.8
	TOTAL OUTPA	TIENT MORBIDITY	223,821	272,028	495,849	100.0	117695.0

Leading Causes of Hospital Outpatient Morbidity by Hospital for the Year 2017

		HOSP	PITALS		
No.	RIPAS	SSB	РММРМНАМВ	PIHM	ALL DISTRICTS
1	Diabetes Mellitus	Other Disorders of Teeth and Supporting Structures	Renal Failure	Hypertensive Diseases	Diabetes Mellitus
	8,971 (2.7%)	5,855 (6.5%)	6,663 (13.2%)	3,860 (14.4%)	18,589 (3.7%)
2	Other Complications of Pregnancy and Delivery	Diabetes Mellitus	Other Disorders of Teeth and Supporting Structures	Renal Failure	Other Disorders of Teeth and Supporting Structures
	7,826 (2.4%)	4,763 (5.3%)	4,894 (9.7%)	3,295 (12.3%)	15,185 (3.1%)
3	Non-Inflammatory Disorders of Female Genital Tract	Dental Caries	Dental Caries	Acute Upper Respiratory Infections	Renal Failure
	6,399 (1.9%)	3,205 (3.6%)	2,937 (5.8%)	3,036 (11.3%)	13,157 (2.7%)
4	Fracture of Specified and Multiple Body Regions	Disorders of Refraction and Accomodation	Diabetes Mellitus	Diabetes Mellitus	Hypertensive Diseases
	5,880 (1.8%)	1,980 (2.0%)	2,535 (5.0%)	2,320 (8.6%)	11,149 (2.2%)
5	Disorders of Refraction and Accomodation	Hypertensive Diseases	Hypertensive Diseases	Dental Caries	Other Complications of Pregnancy and Delivery
	4,432 (1.4%)	1,811 (2.0%)	1,292 (2.6%)	944 (3.5%)	9,135 (1.8%)
6	Hypertensive Diseases	Bronchitis, Chronic and Unspecified Emphysema and Asthma	Disorders of Refraction and Accomodation	Other Disorders of Teeth and Supporting Structures	Non-Inflammatory Disorders of Female Genital Tract
	4,186 (1.3%)	1,050 (1.2%)	1,267 (2.5%)	936 (3.5%)	8,453 (1.7%)
7	Iron Deficiency Anaemias	Mood Disorders	Bronchitis, Chronic and Unspecified Emphysema and Asthma	Fever of Unknown Origin	Dental Caries
	3,794 (1.2%)	948 (1.1%)	879 (1.7%)	410 (1.5%)	8,051 (1.6%)
8	Heart Diseases	Schizophrenia, Schizotypal and Delusional Disorders	Schizophrenia, Schizotypal and Delusional Disorders	Conjunctivitis and Other Disorders of Conjunctiva	Disorders of Refraction and Accomodation
	3,517 (1.1%)	870 (1.0%)	624 (1.2%)	310 (1.2%)	7,895 (1.6%)
9	Other Disorders of Teeth and Supporting Structures	Renal Failure	Heart Diseases	Bronchitis, Chronic and Unspecified Emphysema and Asthma	Fracture of Specified and Multiple Body Regions
	3,500 (1.1%)	853 (0.9%)	609 (1.2%)	221 (0.8%)	7,105 (1.4%)
10	Urolithiasis	Other Complications of Pregnancy and Delivery	Cataract and Disorder of Lens	Iron Deficiency Anaemias	Heart Diseases
	3,123 (1.0%)	775 (0.9%)	533 (1.1%)	174 (0.6%)	4,892 (1.0%)
OTHERS	276,663 (84.3%)	68,080 (75.5%)	28,241 (56.0%)	11,388 (42.3%)	392,238 (79.1%)
GRAND TOTAL	328,291 (100.0%)	90,190 (100.0%)	50,474 (100.0%)	26,894 (100.0%)	495,849 (100.0%)

Leading Causes of Health Centres Outpatient Morbidity for the Year 2017 (Based on ICD-10)

No.	ICD-10 CODE	TYPE OF DISEASE	MALE	FEMALE	TOTAL	%	RATE PER 100,000 POPULATION
I	J00 - J06	Acute Upper Respiratory Infections	62,021	68,311	130,332	15.6	30935.7
2	110 - 115	Hypertensive Diseases	16,947	22,763	39,710	4.7	9425.6
3	K00 - K01, K03 - K08	Other Disorders of Teeth and Supporting Structures	14,825	19,330	34,155	4.1	8107.0
4	EIO - EI4	Diabetes Mellitus	8,905	12,023	20,928	2.5	4967.5
5	K02	Dental Caries	8,305	11,303	19,608	2.3	4654.2
6	HI0 - HI3	Disorders of Conjunctiva	5,489	5,530	11,019	1.3	2615.5
7	J40 - J46	Bronchitis, Chronic and Unspecified Emphysema and Asthma	4,055	4,412	8,467	1.0	2009.7
8	A09	Diarrhoea and Gastroenteritis of Presumed Infectious Origin	2,580	2,652	5,232	0.6	1241.9
9	L00 - L08	Infections of the Skin and Subcutaneous Tissue	2,628	2,481	5,109	0.6	1212.7
10	M05 - M14	Rheumatoid Arthritis amd Other Inflammatory Polyarthropathies	3,942	634	4,576	0.5	1086.2
Ξ	\$03, \$13, \$23, \$33, \$43, \$53, \$63, \$73, \$83, \$93, T03	Dislocations, Sprains and Strains of Specified and Multiple Body Regions	2,235	2,022	4,257	0.5	1010.4
12	K29	Gastritis and Duodenitis	1,845	2,218	4,063	0.5	964.4
13	RIO	Abdominal and Pelvic Pain	1,197	2,482	3,679	0.4	873.2
14	H00 - H01	Inflammation of Eyelid	1,610	2,001	3,611	0.4	857.1
15	J10 - J22	Acute Lower Respiratory Infections	1,868	1,660	3,528	0.4	837.4
	0	thers	196,911	342,050	538,961	64.4	127928.1
	TOTAL OUTPA	TIENT MORBIDITY	335,363	501,872	837,235	100.0	198726.6

Leading Causes of Health Centres Outpatient Morbidity by District for the Year 2017

		DISTRICTS		
No.	DDI INITI MI IADA		TUTONIC	ALL DISTRICTS
I	Acute Upper Respiratory Infections			
	99,485 (15.1%)	16,539 (17.9%) Other Disorders of Teeth and	14,308 (16.7%)	130,332 (15.6%)
2	Hypertensive Diseases	Supporting Structures	Hypertensive Diseases	Hypertensive Diseases
	33,265 (5.0%)	2,354 (2.5%)	5,552 (6.5%)	39,710 (4.7%)
3	Other Disorders of Teeth and Supporting Structures	Disorders of Conjunctiva	Diabetes Mellitus	Other Disorders of Teeth and Supporting Structures
	30,283 (4.6%)	1,235 (1.3%)	2,568 (3.0%)	34,155 (4.1%)
4	Diabetes Mellitus	Infections of the Skin and Subcutaneous Tissue	Other Disorders of Teeth and Supporting Structures	Diabetes Mellitus
	17,895 (2.7%)	920 (1.0%)	1,518 (1.8%)	20,928 (2.5%)
5	Dental Caries	Diarrhoea and Gastroenteritis of Presumed Infectious Origin	Dental Caries	Dental Caries
	17,451 (2.6%)	904 (1.0%)	1,364 (1.6%)	19,608 (2.3%)
6	Disorders of Conjunctiva	Hypertensive Diseases	Disorders of Conjunctiva	Disorders of Conjunctiva
-	8,944 (1.4%)	893 (1.0%)	840 (1.0%)	11,019 (1.3%)
7	Bronchitis, Chronic and Unspecified Emphysema and Asthma	Dental Caries	Bronchitis, Chronic and Unspecified Emphysema and Asthma	Bronchitis, Chronic and Unspecified Emphysema and Asthma
	6,845 (1.0%)	793 (0.9%)	838 (1.0%)	8,467 (1.0%)
8	Diarrhoea and Gastroenteritis of Presumed Infectious Origin	Gastritis and Duodenitis	Infections of the Skin and Subcutaneous Tissue	Diarrhoea and Gastroenteritis of Presumed Infectious Origin
\ \	3,848 (0.6%)	786 (0.8%)	612 (0.7%)	5,232 (0.6%)
9	Rheumatoid Arthritis and Other Inflammatory Polyarthropathies	Bronchitis, Chronic and Unspecified Emphysema and Asthma	Gastritis and Duodenitis	Infections of the Skin and Subcutaneous Tissue
	3,702 (0.6%)	784 (0.8%)	491 (0.6%)	5,109 (0.6%)
10	Infections of the Skin and Subcutaneous Tissue	Abdominal and Pelvic Pain	Diarrhoea and Gastroenteritis of Presumed Infectious Origin	Rheumatoid Arthritis and Other Inflammatory Polyarthropathies
	3,577 (0.5%)	778 (0.8%)	480 (0.6%)	4,576 (0.5%)
OTHERS	433,742 (65.8%)	66,604 (71.9%)	57,037 (66.6%)	558,099 (66.7%)
GRAND TOTAL	659,037 (100.0%)	92,590 (100.0%)	92,364	837,235 (100.0%)
TOTAL	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Note: There is no health centre in Temburong District. Patients will receive outpatient services at PIHM Hospital.

Renal Services

DIALYSIS CENTIBET	NO.	NO. OF PATIENTS ATTENDING FOR RENAL REPLACEMENT THERAPY	UDING FOR RENAL F	REPLACEMENT THER	APY
	2013	2014	2015	2016	2017
Rimba Dialysis Centre	248	248	244	263	290
Kiarong Dialysis Centre	09	09	09	09	28
Dialysis Centre RIPAS Hospital	132	132	112	131	130
Dialysis Centre SSB Hospital, Belait	82	82	83	93	93
Tutong Dialysis Centre	51	15	56	19	63
Continuous Ambulatory Peritoneal Dialysis	53	23	67	78	75
Transplant Unit	39	39	45	47	47
Dialysis Centre PIHM Hospital, Temburong	30	30	27	21	22
TOTAL	698	869	694	754	778

	NO.	OF PATIENTS ATTER	NO. OF PATIENTS ATTENDING FOR RENAL REPLACEMENT THERAPY	EPLACEMENT THER	АРҮ
	2013	2014	2015	2016	2017
No. of New Patients	13	8	14	14	21
No. of Deaths	01	ŀS	15	S	8
No. of Acute Patients	4	5	0	0	0
No. of Chronic Patients	653	869	869	754	778

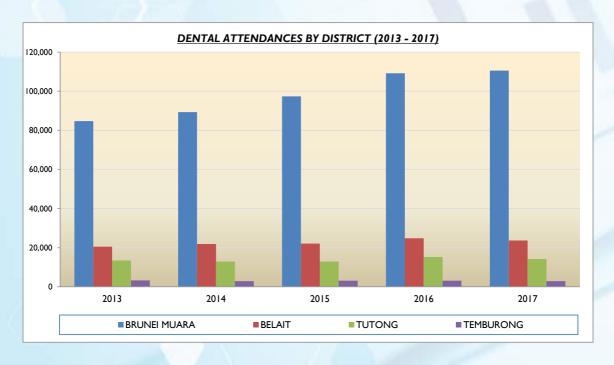
Source: Renal Registry Unit, Department of Renal Services, Ministry of Health

Dental Health Services

TOTAL ATTENDANCES BY DISTRICT FOR THE YEARS (2013 - 2017)

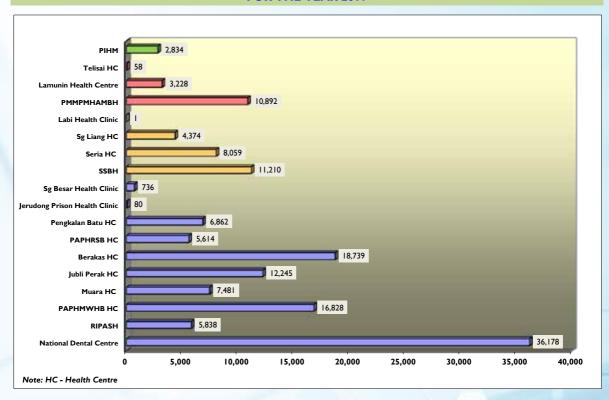
YEAR	BRUNEI MUARA	BELAIT	TUTONG	TEMBURONG	TOTAL
2013	84,715	20,477	13,439	3,271	121,902
2014	89,335	21,837	12,870	2,873	126,915
2015	97,430	22,109	12,918	3,116	135,573
2016	109,231	24,764	15,224	3,087	152,306
2017	110,601	23,644	14,178	2,834	151,257

Source: Dental Health Services, Ministry of Health

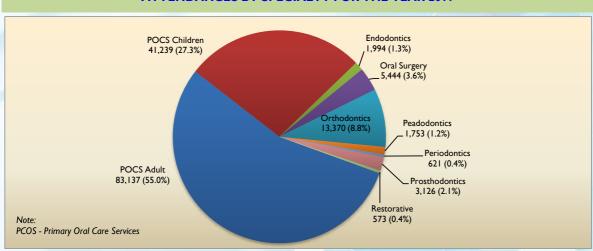


Dental Health Services

ATTENDANCES BY HOSPITALS / HEALTH CENTRES / HEALTH CLINICS FOR THE YEAR 2017



ATTENDANCES BY SPECIALTY FOR THE YEAR 2017



Occupational Health Services

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

A total of 130 workplace accidents were reported to the Occupational Health Division in 2017. 65% percent occurred 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)

- Agriculture, Hunting and Forestry
- **Fishing** B.
- C. Mining and Quarrying
- D. Manufacturing
- E. Electricity, Gas and Water Supply
- F. Construction
- Wholesale and Retail Trade, Repair of Motor Vehicles, Motorcycles and Personal and Household Goods G.
- H. Hotels and Restaurants
- Transport, Storage and Communications
- J. Financial Intermediation
- Real Estate, Renting and Business Activities K.
- L. Public Administration and Defence, Compulsary Social Security
- M. Education
- Health and Social Work N.
- Ο. Other Community, Social and Personal Service Activities
- P. Private Households with Employed Persons
- Extra-Territorial Organisations and Bodies Q.

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

WORKPLACE SURVEILLANCE BY OCCUPATIONAL HEALTH DIVISION

		201	3	201	4	201	5	201	6	201	7
	PURPOSE	Non HC	НС								
I.	Workplace Inspection (First, Periodic & Follow-up Inspections)	51	3	48	7	77	22	110	I	62	34
2.	Workplace Survey	47	0	177	0	223	0	127	0	58	4
3.	Others (Accidents at Workplace Investigation, Occupational/Work-Related Disease Investigation, Requests, Complaints)	38	13	43	7	46	П	18	9	=	12
	TOTAL	136	16	268	14	346	33	255	10	131	50
	IOIAL	152	2	283	2	37	9	26	5	18	_

Note: Non HC - Non Health Care Sector; HC - Health Care Sector

Source: Occupational Health Division, Ministry of Health

Occupational Health Services

INCIDENCE OF WORKPLACE ACCIDENTS BY TYPE OF INDUSTRY (NON HEALTHCARE)

	TYPE OF INDUSTRY	2013	2014	2015	2016	2017
A.	Agriculture, Hunting and Forestry	3	0	0	0	6
В.	Fishing	0	0	0	1	0
C.	Mining and Quarrying	0	0	0	2	0
D.	Manufacturing	7	12	6	6	4
E.	Electricity, Gas and Water Supply	2	2	0	3	0
F.	Construction	21	18	9	37	55
G.	Wholesale and Retail trade, Repair of Motor Vehicle, Personal and Household goods	5	2	1	14	15
Н.	Hotel and Restaurant	- 1	0	1 -	2	4
I.	Transport, Storage and Communication	2	1	2	3	0
J.	Financial Intermediation	0	0	0	0	0
K.	Rental Estate, Renting and Business Activities	0	0	0	2	0
L.	Public Administration, Defense, Compulsory Social Security	0	0	0	0	0
M.	Education	0	ı	0	0	0
N.	Health and Social Work	0	0	1	0	0
Ο.	Other Community, Social, and Personal Service Activities	5	23	0	11	0
P.	Private Household with Employed Persons	2	3	2	0	0
Q.	Extra- Territorial Organizations and Bodies	0	0	0	0	0
	Unknown	15	2	6	8	1
	TOTAL	63	64	28	89	85

INCIDENCE OF WORKPLACE ACCIDENTS BY TYPE OF INJURY (HEALTHCARE)

TYPE OF INJURY	2013	2014	2015	2016	2017
I. Needle Prick	20	31	26	48	42
2 Other Injuries *	3	8	- 11	2	3
TOTAL	23	39	37	50	45

Note

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

OCCUPATIONAL AND WORK RELATED DISEASES

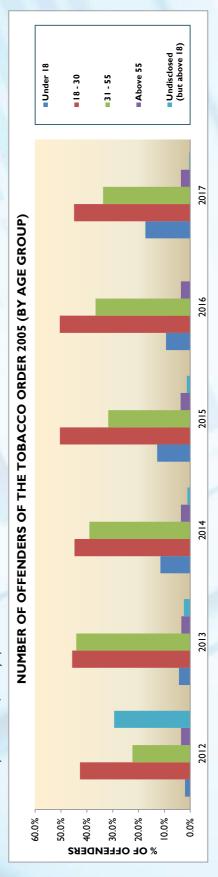
	DISEASES	2013	2014	2015	2016	2017
1.	Noise Induced Deafness	45	36	66	35	2
2.	Occupational Dermatitis	2	0	0	0	$\overline{}$
3.	Occupational Asthma	- 1	0	0	0	0
4.	Occupational Lung Disease	1	0	0	0	1
	TOTAL	49	36	66	35	4

Source: Occupational Health Division, Ministry of Health

Tobacco Control

NUMBER OF OFFENCES RECORDED (TOBACCO ORDER 2005) FOR THE YEARS (2011 - 2017)

Σ								
NUMBER OF OFFENDERS RECORDED	216	261	322	772	375	448	525	
TOTAL NUMBER OF OFFENCES	515	861	329	772	928	451	232	
CASES TRANSFERRED TO CUSTOMS AND EXCISE DEPT.	3	-	-			1	8 - 1	
REQUIRED TO ATTEND SMOKING CESSATION CLINIC	0	3	41	32	50	42	95	
STERN WARNING ISSUED	40	0	6	7		7	1	44
COMPOUND FINES ISSUED	1/1	161	306	243	325	407	437	Source: Health Enforcement Unit Ministry of Health
YEAR	2011	2012	2013	2014	2015	2016	2017	Source: Health Enforce



Pharmacy Services

NUMBER OF PRESCRIPTIONS AND ITEMS BY HOSPITAL FOR THE YEAR 2017

			RIPAS	RIPAS Hospital				SSB Hospital		PMM	PMMPMHAMB Hospital	spital	WHIA	IATOT
	ddl	RIMBA RU	ΩНМ	OPP	W&C Pcy	A&E	ЫР	OPP	A&E	ddl	OPP	A&E	Hospital	5
					NUMBER O	NUMBER OF PRESCRIPTIONS	SNOI							
Out-Patient Prescriptions / Discharge Prescriptions	25,705	11,770	5,330	196,220	24,161	72,320	5,578	105,486	11,747	2,273	35,259	2,513	31,520	529,882
In-Patient Prescriptions	33,432	0	357	0	0	0	5,040	0	0	2,462	0	0	061	41,481
Total Prescription	59,137	11,770	5,687	196,220	24,161	72,320	10,618	105,486	11,747	4,735	35,259	2,513	31,710	571,363
					NUM	NUMBER OF ITEMS								
Out-Patient Prescriptions / Discharge Prescriptions	81,411	73,633	11,955	661,028	51,693	181,188	18,652	390,938	32,891	7,271	117,791	7,160	114,573	1,750,184
In-Patient Prescriptions	49,960	0	803	0	0	0	9,730	0	0	3,881	0	0	298	64,741
Total Items	131,371	73,633	12,758	661,028	51,693	181,188	28,382	390,938	32,891	11,152	117,791	7,160	114,940	1,814,925
Average No. of Items / OPP & DC Prescription	3.17	6.26	2.24	3.37	2.14	2.51	3.34	3.71	2.80	3.20	3.34	2.85	3.63	3.30
Average No. of Items	1 49	000	225	000	00 0	000	1 93	000	000	1 58	000	000	86 /	1.56

1.56

1.93

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Source: Department of Pharmacy, Ministry of Health / In-Patient Prescriptions

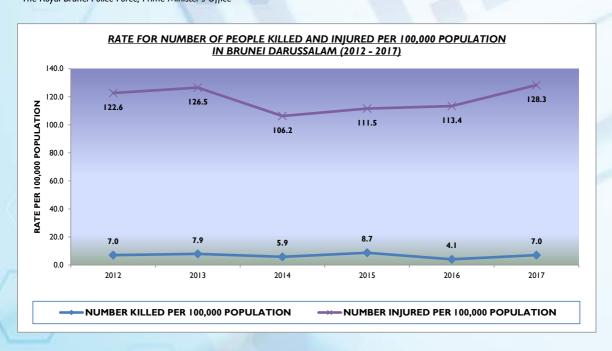
Road Traffic Accidents

Road traffic accidents remain as one of the top ten leading causes of deaths in Brunei Darussalam. In 2017, Brunei Darussalam reported 2684 road accidents.

		ROAD	TRAFFIC ACCIDEN	TS (2011 - 2017)		
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	489	17.5	5.4
2013	3,338	32	7.9	510	15.9	5.9
2014	3,366	24	5.9	433	18.0	5.3
2015	3,345	36	8.7	460	12.8	7.3
2016	3,375	17	4.1	473	27.8	3.5
2017	2,684	29	7.0	529	18.2	5.2

Sources :

The Royal Brunei Police Force, Prime Minister's Office



Definitions

- I INFANT DEATHS: Deaths aged less than I 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

- I 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
- II INFANT MORTALITY RATE = (INFANT DEATHS / LIVEBIRTHS) x 1000
- 12 MATERNAL MORTALITY RATIO (per 100,000 live births) = (MATERNAL DEATHS / LIVEBIRTHS) × 100000
- 13 MATERNAL MORTALITY RATIO (per 1,000 live births) = (MATERNAL DEATHS / LIVEBIRTHS) x 1000

HOSPITAL PERFORMANCE INDICES

- I 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

- I 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

Appendix

ICD10 CODES	DESCRIPTION OF DISEASES
EII	Type 2 Diabetes Mellitus
E78	Disorders of lipoprotein metabolism and other lipidaemias
110	Essential (primary) hypertension
J00	Acute nasopharyngitis [common cold]
J06	Acute upper respiratory infections of multiple and unspecified sites
J06.9	Acute upper respiratory infection, unspecified
K02	Dental caries
Z00.1	Routine child health examination
Z01.2	Dental examination
Z02.I	Pre-employment examination
Z09.8	Follow-up examination after other treatment for other conditions
Z34	Supervision of normal pregnancy
Z71.2	Person consulting for explanation of investigation findings

Source: WHO ICD-10 International Statistical Classification of Diseases and Related Health Problems

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Contacts

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For further information please contact:

Statistics Unit
Department of Policy and Planning
2nd Floor, Ministry of Health
Commonwealth Drive
Brunei Darussalam

Tel: +673 - 2381640

Fax: +673 - 2383016

E-mail: statistics@moh.gov.bn

Website: www.moh.gov.bn