

HEALTH INFORMATION BOOKLET 2005

STATISTICS UNIT
RESEARCH AND DEVELOPMENT SECTION
DEPARTMENT OF POLICY AND PLANNING
MINISTRY OF HEALTH

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Acknowledgement

PREFACE

Bismillahir Rahmanirrahim. Assalamualaikum Warahmatullahi Wabarakatuh.

The Health Information Booklet (HIB) 2005 is the tenth edition of the series of the booklet published annually by Statistics Unit since 1996. As in the previous years, this booklet continues to serve as a useful and informative reference to all users and constitutes an update and further development of data of previous years, which reflect the national development in the health sector.

The aim of publication is to disseminate up-to-date, reliable and useful health related statistics for the use of planners, policy-makers, researchers, academician and the general public. The booklet represents the summary of the health related statistics based on the data collected by Statistics Unit from the various relevant departments.

Finally, we would like to thank all those contributing for their commitment in the publication of the booklet and a sincere appreciation to all relevant departments for their continuous assistance and support in providing their data. Any comments and suggestions would be welcomed for further improve the quality of future publication.

HAJAH FATMAH BINTI PJDSMDSU (DR) HAJI MD JAMIL Acting Director of Policy and Planning Ministry of Health Negara Brunei Darussalam

MINISTRY OF HEALTH

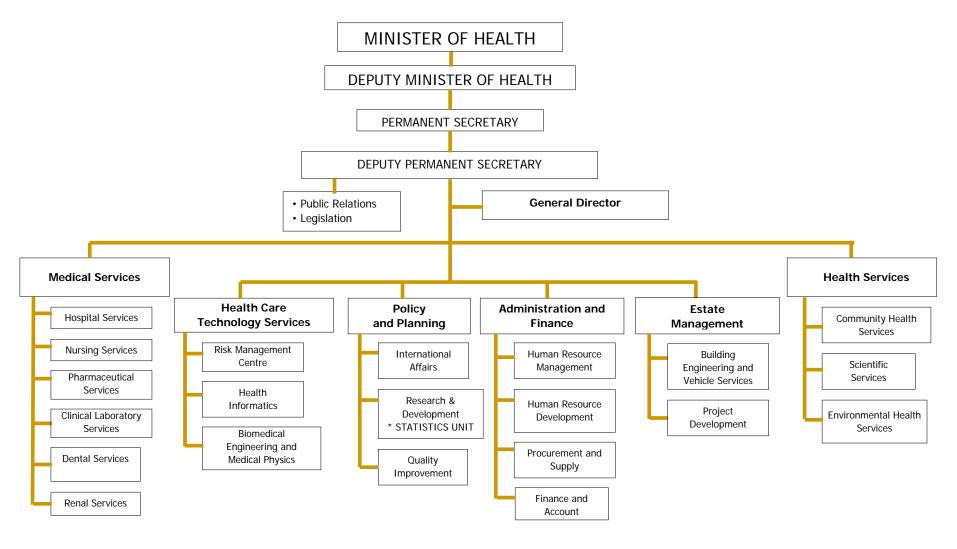
VISION

" To strive to become a highly reputable health service organization which is comparable to the best in the region and which will enable every citizen and resident of the nation to attain a high quality of life by being socially, economically and mentally productive throughout the life span "

MISSION

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

ORGANISATION STRUCTURE FOR THE MINISTRY OF HEALTH



GEOGRAPHY

Brunei Darussalam covers an area of 5,765 sq. km and lies about 443km north of the equator. Brunei is located on the northwest coast of the island of Borneo in the South China Sea, wedged between the Malaysian states of Sabah and Sarawak. It is bounded on all landward sides by Sarawak, which splits Brunei into two parts.

CAPITAL : BANDAR SERI BEGAWAN

DISTRICTS : 4

MUKIMS : 39

KAMPONGS / LOCALITY : 430

HOUSEHOLDS : 55,696 (2001 Census)

AV. NO. PERSONS PER HOUSEHOLD : 6.0

DEMOGRAPHY

Brunei Darussalam conducts population census every 10 years. The latest census was done in 2001. Demographic data as a basic requirement for the detection of health disease pattern and trend are as follows:

Estimated Population (2005):

Total : 370.1 Thousands

Male : 195.3 Thousands

Female: 174.8 Thousands

Sex Ratio (M / 100F) : 112 Persons / sq.km : 64

Annual rate of increase : 2.9%

Age Structure :

0 - 4 : 13.1% 5 - 19 : 27.0% 20 - 54 : 53.8% 55 - 64 : 3.5% 65 & Over : 2.6%

Race:

Malay : 66.7% Chinese : 11.2% Others * : 22.1%

District :

Brunei-Muara : 69.1%

Belait : 16.7%

Tutong : 11.7%

Temburong : 2.5%

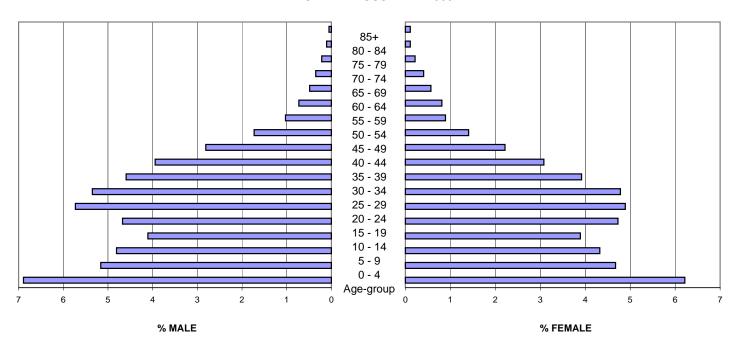
Note:

Source:

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

^{* -} Including Other Indigenous

POPULATION PYRAMID BRUNEI DARUSSALAM 2005



VITAL STATISTICS

	<u>2001</u>	2002	<u>2003</u>	<u>2004</u>	<u>2005</u>
Crude Birth Rate (per 1,000 Popn.)	22.1	21.7	20.2	19.9	18.7
General Fertility Rate (per 1,000 Women (15-49))	73.6	76.4	71.8	71.6	68.1
Total Fertility Rate (per Women (15-49))	2.2	2.2	2.1	2.1	(p) 2.1
Crude Death Rate (per 1,000 Popn.)	3.0	3.0	2.9	2.8	2.9
Under 5 Mortality Rate (per 1,000 LBs.)	8.8	10	11.8	9.8	9.4
Late Fetal Death Ratio : (per 1,000 LBs.)	6.9	6.7	6.8	6.0	6.1
Perinatal Mortality Ratio (per 1,000 LBs.)	9.8	10.3	12.1	9.5	8.7
Early Neonatal Mortality Rate : (per 1,000 LBs.)	2.9	3.6	5.3	3.5	2.6
Late Neonatal Mortality Rate (per 1,000 LBs.)	1.8	1.6	2.0	2.5	1.9
Neonatal Mortality Rate (per 1,000 LBs.)	4.6	5.2	7.2	6.0	4.5
Post Neonatal Mortality Rate (per 1,000 LBs.)	2.2	3.1	2.3	2.8	2.9
Infant Mortality Rate : (per 1,000 LBs.) Maternal Mortality Ratio	6.8	8.3	9.5	8.8	7.4
(per 1,000 LBs.)	0.4	0.3	0.3	0.1	0.1
Life Expectancy At Birth - Male :	74.2	74.3	74.4	74.6	(p) 74.2
- Female :	77.6	77.2	77.4	77.5	(p) 77.3
Percentage of Newborns Weighing At Least 2500g At Birth	89.6	90.8	93.0	N/A	(p) 90.6
Percentage of Deliveries by Trained Health Personnel	99.6	99.4	99.4	99.6	99.7
Literacy Rate (%) (Age 9 yrs +) - Male :	(#) 95.8	(#) 95.8	(#) 95.8	(#) 95.8	(#) 95.8
- Female :	(#) 91.5	(#) 91.5	(#) 91.5	(#) 91.5	(#) 91.5
Per Capita GDP at current prices : (B\$) Thousand	22.5	22.2	23.6	(r) 37.0	(p) 42.9

Note:

 Popn.
 Population

 LBs
 Live-births

 (p)
 Provisional

 (#)
 Census in 2001

 (r)
 Revised

Red text - Millennium Development Goals (MDGs) Indicators

HEALTH FACILITIES

NUMBER
5 5
15
16
10
4
3
8
10
72
23
4

Note:

DISTRIBUTION MAP OF HEALTH CARE FACILITIES

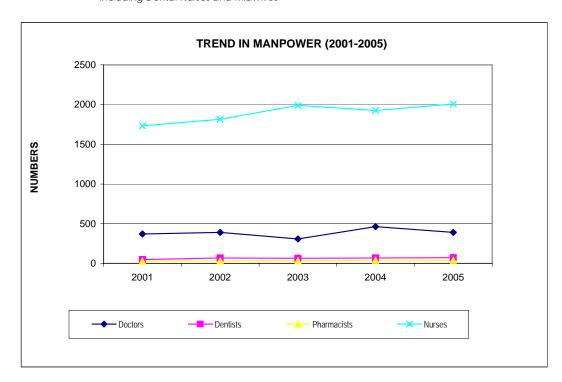
^{*} Include PANAGA HEALTH CENTRE

MANPOWER

Human Resources for Health for 2005	Government	Private	Total
Doctors Population per Doctor	335	55	390 949
Dentists Population per Dentist	59	14	73 5,070
Pharmacists Population per Pharmacist	25	16	41 9,027
Nurses * Population per Nurse	1,962	44	2,006 184

Note:

* - Including Dental Nurses and Midwives



GOVERNMENT HEALTH EXPENDITURE

	<u>2003</u>	2004/05	<u>2005/06</u>
Total Health Budget (B\$ Millions)	225.46	233.32	240.86
Health Budget as % of National Budget	6.62	6.63	6.82
Per Capita Health Budget (B\$)#	645	649	651
Health Budget as % of GDP #	2.73	(r) 1.75	(p) 1.52
Total Health Expenditure (B\$ Millions)	290.15	262.93	
Health Expenditure as % of Government Expenditure	6.75	7.88	
Health Expenditure as % of GDP #	3.51	(r) 1.98	
Per Capita Health Expenditure (B\$) #	830	731	

Note:

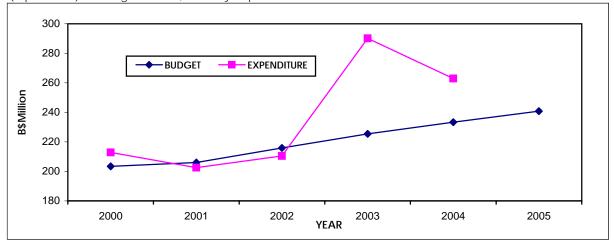
GDP - Gross Domestic Product

... - Not available(p) - Provisional(r) - Revised

Source:

- JPKE, Brunei Darussalam Key Indicator's 2006

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

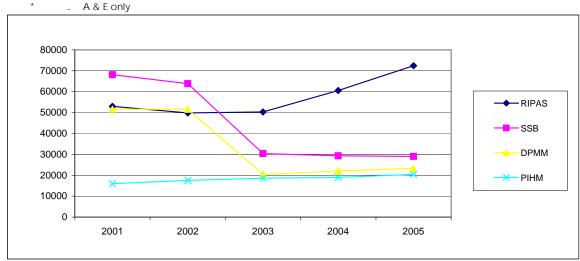


HOSPITAL SERVICES STATISTICS

The Department of Medical Services is responsible for the delivery of hospital services in all four districts. The four government hospitals plus one private hospital (Jerudong Park Medical Centre) are serving the population of Brunei Darussalam with an average turnover of patients per bed of 42 during 2005. The total inpatient load is approximately 39,000 compared to nearly 145,000 general outpatient plus A&E attendances during the year.

ACTIVITIES	RIPAS	SSB	DPMM	PIHM	TOTAL
OUTPATIENT ACTIVITIES					
General Outpatient and A & E Attendances	72,434 *	29,016 *	23,380 *	20,415	145,245
Specialist Outpatient Attendances	241,658	86,684	62,012	10,260	400,614
INPATIENT ACTIVITIES					
Available Beds	583	210	105	25	923
Admissions	28,198	6,586	3,501	756	39,041
Discharges & Deaths	28,137	6,565	3,043	566	38,311
Deaths Only	467	76	1	3	547
Patient Days	138,042	28,578	10,375	2,107	179,102
Day Patients	47,759	6,796	0	127	54,682
PERFORMANCE INDICES					
Average Number of Inpatients / Day	377	78	28	6	489
% Occupancy	65	37	27	23	53
Average Duration of Stay (Days)	4.9	4.4	3.4	3.7	4.7
Average Turnover of Patients / Bed	48	31	29	23	42
Average Outpatient Attendances / Day	0	0	0	47	47

Note: 65 37 27 23 53



Note:

Decentralisation of Outpatient Services to Health Centres started in 2000 and 2001 for Brunei-Muara District and in 2002 for Tutong and Belait Districts.

HEALTH SERVICES STATISTICS

The Department of Health Services, Ministry of Health is responsible for providing public health services in the country. With its vision, "Together Achieving A Healthy Nation With Full Community Participation", the mission of the department is to promote well-being and prevent ill health. Towards achieving the vision and fulfilling the mission of the department, various activities and programmes have been developed and established under three main services: Community Health Service, Environmental Health Services and Scientific Services.

WORKLOAD INDICATORS	2003	2004	<u>2005</u>
1. Ante Natal attendances	56,660	55,816	53,627
2. Post Natal attendances	9,974	9,785	10,393
3. Child (<5) attendances	140,129	138,929	137,305
4. General O/P attendances in Health Centres / Clinics *	432,110	330,754	485,327
5. No. of students medically examined	15,645	14,756	21,029
6. No. of screening tests on students	26,826	27,376	31,014

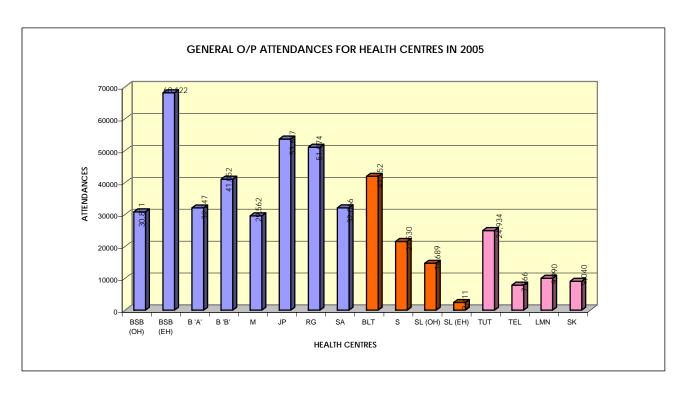
Note:

^{* -} including extended hours services

IMMUNISATION COVERAGE	2003	2004	<u>2005</u>
% of infants immunised against			
- Tuberculosis	95.0	99.4	96.4
- Diphtheria/Tetanus/Whooping Cough	92.0	91.7	99.7
- Poliomyelitis	99.0	92.2	99.5
- Hepatitis B	95.0	99.2	99.8
- Measles, Mumps and Rubella	98.0	101.1	97.4
% of pregnant women immunised against			
- Tetanus	69.3	47.4	41.0

Note:

Red text - Millennium Development Goals (MDGs) Indicators



BRUNEI MUARA HEALTH CENTRES

BSB : BSB Health Centre B 'A' : Berakas 'A' Health Centre B 'B' : Berakas 'B' Health Centre M : Muara Health Centre

JP : Jubli Perak Health Centre
RG : Rimba Gadong Health Centre

SA : PAP Hjh Rashidah Sa'adatul Bolkiah Health Centre

BELAIT HEALTH CENTRES

BLT : Belait Health Centre

S : Seria Health Centre

SL : Sungai Liang Health Centre

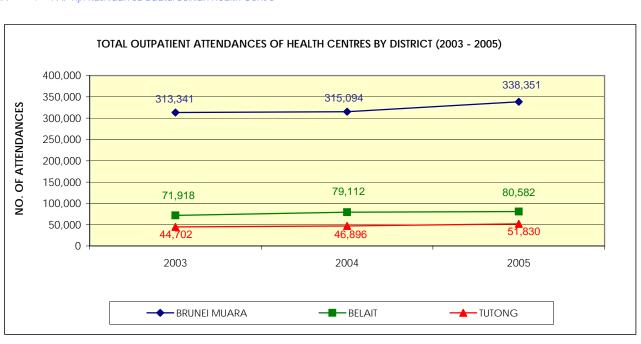
TUTONG HEALTH CENTRES

TUT : Tutong Health Centre

TEL : Telisai Health Centre

LMN : Lamunin Health Centre

SK : Sungai Kelugos Health Centre



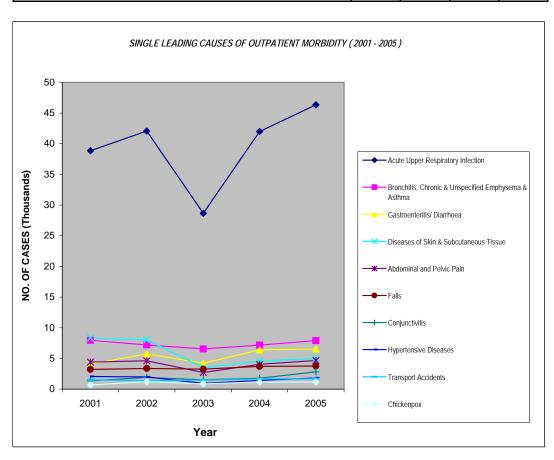
NUTRITIONAL STATUS

	SCHOOL HEALTH	B/M	VD.	TUT	TENA	TOTAL
	rimary I, II & VI and Form 2 only)		КВ	TUT	TEM	TOTAL
1.	Number Underweight	949	169	108	8	1234
2.	Number Overweight	2,980	961	362	117	4420
3.	Number Obese	2,546	592	294	103	3535

	MOTHER & CHILD HEALTH CLINICS	NEW CASES		REVIEW	TOTAL	
	(BELOW 5 YEARS)	MALE	FEMALE	MALE	FEMALE	IOIAL
1.	Underweight	181	234	305	442	1162
2.	Overweight	153	143	207	229	732
3.	Healthy Eating	26	22	12	13	73
4.	Low Birth Weight (FT)	12	17	15	21	65

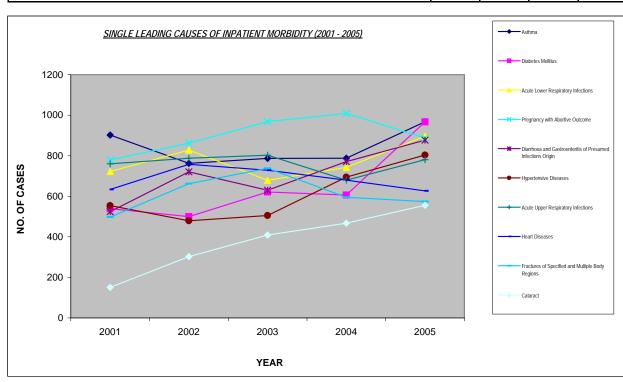
SINGLE LEADING CAUSES OF HOSPITAL OUTPATIENT MORBIDITY FOR THE YEAR 2005 (A & E + G O P D)

No.	ICD-10	DISEASES	MALE	FEMALE	TOTAL	%
1	J00-J06	Acute Upper Respiratory Infection	23,841	22,497	46,338	29.9
2	J40-J46	Bronchitis, Chronic & Unspecified Emphysema & Asthma	4,444	3,469	7,913	5.1
3	A09	Gastroenteritis/ Diarrhoea	3,424	3,119	6,543	4.2
4	L00-L99	Diseases of Skin & Subcutaneous Tissue	2,503	2,482	4,985	3.2
5	R10	Abdominal and Pelvic Pain	2,034	2,641	4,675	3.0
6	W00-W19	Falls	2,316	1,431	3,747	2.4
7	H10	Conjunctivitis	1,511	1,317	2,828	1.8
8	I10-I15	Hypertensive Diseases	845	973	1,818	1.2
9	V01-V99	Transport Accidents	1,058	627	1,685	1.1
10	B01	Chickenpox	599	541	1,140	0.7
11	J10-J11	Influenza	493	511	1,004	0.6
12	T78.4	Allergy, Unspecified	356	365	721	0.5
13	K00-K08	Diseases of Teeth & Supporting Structures	393	306	699	0.5
14	E10-E14	Diabetes	309	356	665	0.4
15	M10	Gout	469	45	514	0.3
		Others	37,656	32,043	69,699	45.0
		Grand Total	82,251	72,723	154,974	100.0



SINGLE LEADING CAUSES OF HOSPITAL INPATIENT MORBIDITY FOR THE YEAR 2005

NO	ICD-10	TYPE OF DISEASES	MALE	FEMALE	TOTAL	%
1	J45-J46	Asthma	502	466	968	2.7
2	E10-E14	Diabetes Mellitus	408	559	967	2.7
3	J10-J22	Acute Lower Respiratory Infections	498	399	897	2.5
4	O00-O08	Pregnancy with Abortive Outcome	0	887	887	2.5
5	A09	Diarrhoea and Gastroenteritis of Presumed Infections Origin	477	400	877	2.5
6	I10-I15	Hypertensive Diseases	343	461	804	2.3
7	J00-J06	Acute Upper Respiratory Infections	457	324	781	2.2
8	100-109,120-152	Heart Diseases	383	244	627	1.8
9	S02, S12, S22, S32, S42, S52, S62, S72, S82, S92, T02, T08, T10, T12	Fractures of Specified and Multiple Body Regions	379	194	573	1.6
10	H25-H26	Cataract	280	276	556	1.6
11	W00-W19	Falls	305	163	468	1.3
12	R10	Abnominal and Pelvic Pain	207	255	462	1.3
13	D50-D64	Iron Deficiency Anaemias	232	223	455	1.3
14	O10-O16	Oedema, Proteinuria and Hypertensive Disorders in Pregnancy, Childbirth and the Puerperium	0	435	435	1.2
15	V00-V99	Transport Accidents	267	158	425	1.2
	Others		8,166	16,899	25,065	71.1
	ТОТ	AL EXCLUDING EXTERNAL CAUSES	11,906	21,857	33,763	100.0
		GRAND TOTAL	12,904	22,343	35,247	100.0



NOTIFIABLE DISEASES

The most common communicable diseases reported during 2005 are chickenpox, gastroenteritis, chlamydial infection, gonococcal infection and food poisoning.

DISEASES	B/M	тит	TEMB	КВ	TOTAL						
Food and Water Borne Diseases											
Cholera	0	0	0	0	0						
Para/Typhoid Fever	1	0	1	0	2						
Salmonella Infection	33	5	1	9	48						
Dysentery	0	0	0	0	0						
Food Poisoning	120	65	0	2	187						
Gastroenteritis	186	263	2	6	457						
Hepatitis A	1	0	0	3	4						
Person to Person Transmitted Diseases											
Chickenpox	1,500	484	84	127	2,195						
Tuberculosis	95	27	6	29	157						
Hand, Foot & Mouth Diseases	84	19	0	15	118						
Meningitis	5	1	0	1	7						
Leprosy	1	0	1	0	2						
Vaccine Preventable Diseases			<u> </u>								
Diptheria	0	0	0	0	0						
Whooping Cough	1	0	0	0	1						
Tetanus	0	0	0	0	0						
Poliomyelitis	1	0	0	0	1						
Measles	5	3	0	0	8						
Mumps	17	6	1	5	29						
Rubella	0	0	0	0	0						
Hepatitis B	0	0	0	0	0						
Tetanus Neonatarum	0	0	0	0	0						
Sexually Transmitted Diseases			•								
AIDS / HIV *	0	0	0	0	0						
Syphillis (All Forms)	9	1	2	0	12						
Gonococcal Infection	171	31	5	3	210						
Chancroid	2	0	0	1	3						
Opthalmia Neonatarum	3	0	0	0	3						
Non Specific Uretheritis	4	0	0	0	4						
Chlamydial Infection	250	15	3	17	285						
Genital Herpes	3	3	0	0	6						
Hepatitis C	3	0	0	0	3						
Vector Borne Diseases											
Plague	0	0	0	0	0						
Malaria	11	1	0	3	15						
Filariasis	0	8	0	0	8						
Dengue/DHF	17	4	43	4	68						
Yellow Fever	0	0	0	0	0						
Viral Encephalitis	0	0	0	0	0						
Typhus	0	0	0	0	0						
Leptospirosis	0	1	0	0	1						
Others Notifiable Diseases											
Others Notifiable Diseases											
Septicaemia	0	0	0	0	0						
Septicaemia Puerperal Infection	0	0	0 0	0	0						
Septicaemia	0 56		0	0	0 56						
Septicaemia Puerperal Infection	0	0	0	0	0						

Note:

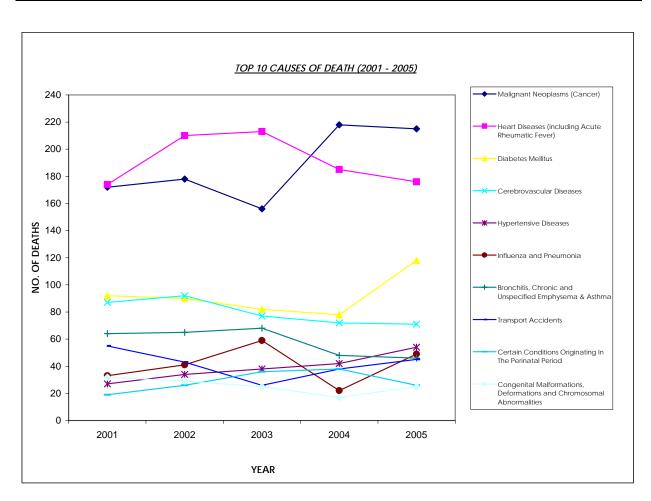
Source:

Disease Control Unit, MOH

 $^{^{\}star}$ Indicate incidence of AIDS/HIV cases among local only.

TEN LEADING CAUSES OF DEATHS FOR THE YEAR 2005 (Based on ICD-10)

No.	ICD-10	TYPE OF DISEASE	MALE	FEMALE	TOTAL	%	RATE PER 100,000 POPN.
1	C00-C97	Cancer (Malignant Neoplasms)	118	97	215	20.1	58.1
2	100 - 109, 120 - 152	Heart Diseases (Including Acute Rheumatic Fever)	113	63	176	16.4	47.6
3	E10 - E14	Diabetes Mellitus	57	61	118	11.0	31.9
4	160 - 169	Cerebrovascular Diseases	35	36	71	6.6	19.2
5	I10 - I15	Hypertensive Diseases	28	26	54	5.0	14.6
6	J10 - J18	Influenza and Pneumonia	29	20	49	4.6	13.2
7	J40 - J46	Bronchitis, Chronic & Unspecified Emphysema & Asthma	25	21	46	4.3	12.4
8	V01 - V99	Transport Accidents	28	17	45	4.2	12.2
9	P00 - P96	Certain Conditions Originating In The Perinatal Period	20	6	26	2.4	7.0
10	()((() _ ())()()	Congenital Malformations, Deformations and Chromosomal Abnormalities	12	13	25	2.3	6.8
		Others	156	91	247	23.0	66.7
		ALL DEATHS	621	451	1072	100.0	289.7



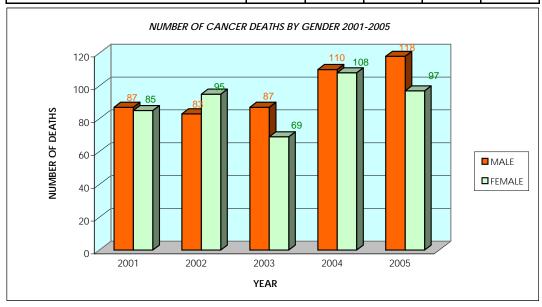
MORTALITY DUE TO CARDIOVASCULAR DISEASES BASED ON ICD-10 FOR THE YEAR 2005

										AGE-GI	ROUP IN	YEARS						
	ICD-10 CODE		TYPE OF DISEASES	<;	35	35	- 44	45	- 54	55	- 64	65	- 74	7!	5+		TOTAL	
				М	F	М	F	М	F	М	F	М	F	М	F	М	F	T
1		100 - 109, 120 - 152	Heart Diseases	8	4	18	6	8	1	23	5	20	20	36	27	113	63	176
	1	100 - 109	Acute Rheumatic Fever & Chronic Rheumatic Heart Diseases	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1
	ii	120 - 125	Ischaemic Heart Diseases	3	0	7	1	7	1	16	3	16	6	17	10	66	21	87
		l 21	Acute Myocardial Infarction	3	0	4	1	5	1	12	1	11	1	4	7	39	11	50
		l 20, l 22 - l 25	Other Ischaemic Diseases	0	0	3	0	2	0	4	2	5	5	13	3	27	10	37
	iii	126 - 152	Diseases of Pulmonary Circulation & Other Forms of Heart Diseases	5	4	11	5	1	0	7	2	4	14	18	17	46	42	88
2		l 10 - l 15	Hypertensive Diseases	0	1	3	0	0	1	4	2	7	6	14	16	28	26	54
3		160 - 169	Cerebrovascular Diseases	1	1	4	3	5	2	3	6	8	5	14	19	35	36	71
4		l 70 - l 98	Other Diseases of the Circulatory System	1	1	0	0	1	1	1	0	2	0	2	0	7	2	9
		l 70	Atherosclerosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L		l 71 - l 98	Others	1	1	0	0	1	1	1	0	2	0	2	0	7	2	9
	to 4	100 - 198	All Cardiovascular Diseases	10	7	25	9	14	5	31	13	37	31	66	62	183	127	310
			All Causes of Mortality	113	69	65	36	73	38	89	54	101	117	180	137	621	451	1072

MORTALITY DUE TO CANCER FOR THE YEAR 2005

TYPE OF CANCER	MALE	FEMALE	TOTAL
Trachea, Bronchus and Lung	36	15	51
Colon	12	8	20
Breast	0	17	17
Lip, Oral Cavity and Pharynx	8	4	12
Stomach	8	3	11
Liver and Intrahepatic Bile Ducts	5	6	11
Rectum and Anus	10	1	11
Non-Hodgkin's Lymphoma	7	4	11
Ovary	0	10	10
Meninges, Brain and Other Part of CNS	4	6	10
Leukaemia	5	2	7
Cervix Uteri	0	6	6
Pancreas	4	1	5
Prostate	5	0	5
Larynx	3	1	4
Multiple Myeloma and Malignant Plasma Cell Neoplasms	1	3	4
Bladder	2	1	3
Other and Unspecified Parts of Uterus	0	1	1
Remainder	8	8	16
TOTAL	118	97	215

YEAR	2001	2002	2003	2004	2005
TOTAL NO. OF CANCER DEATHS	172	178	156	218	215

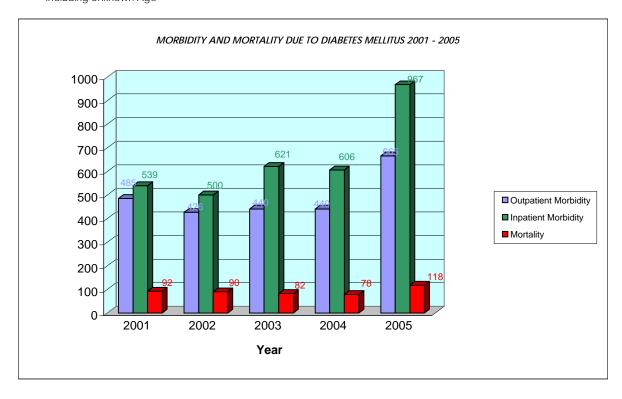


MORBIDITY AND MORTALITY DUE TO DIABETES MELLITUS FOR THE YEAR 2005

AGE-GROUP IN YEARS														
	0-14		0-14		15	15-44		45-64		65+		TOTAL		
	М	F	М	F	М	F	М	F	М	F	TOTAL			
OUTPATIENT MORBIDITY	5	2	83	111	158	173	62	69	309*	356 *	665			
INPATIENT MORBIDITY	1	8	107	145	188	242	112	164	408	559	967			
MORTALITY	0	0	6	3	27	14	24	44	57	61	118			

Note:

^{*} Including Unknown Age

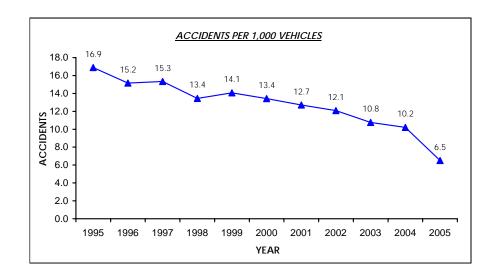


ROAD TRAFFIC ACCIDENTS

Y E A R	ACCIDENTS	KILLED	Injured	NUMBER INJURED FOR EACH PERSON KILLED	CASE FATALITY RATE % (CFR)	REGISTERED VEHICLES
1995	2,834	58	393	6.8	12.9	167,790
1996	2,693	64	363	5.7	15.0	177,599
1997	2,945	61	404	6.6	13.1	192,007
1998	2,692	50	531	10.6	8.6	200,172
1999	2,900	45	515	11.4	8.0	206,267
2000	2,861	41	554	13.5	6.9	213,127
2001	2,794	45	537	11.9	7.7	219,949
2002	2,801	40	549	13.7	6.8	231,656
2003	2,625	28	645	23.0	4.2	244,067
2004	2,625	36	620	17.2	5.5	258,435
2005	2,771	38	528	13.9	6.4	428,217

Source : The Royal Brunei Police Force Land Transport Department

The accidents statistics per 1,000 vehicles show significant downward trend due to the application of preventive measures. However the case fatality rates for road traffic accidents are still high compared to other developed countries.



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Prime Minister's Office

Department of Economic Planning and Development Royal Brunei Police Force

Ministry of Finance

Budget and Tender Section Ledger Section, Treasury Department

Ministry of Home Affairs

Birth, Death and Adoption Section Immigration and National Registration Department

Ministry of Communication

Land Transport Department

Ministry of Health

Department of Medical Services
Department of Health Services