



# HEALTH FACTS 2017

(Reference data for 2016)

MINISTRY OF HEALTH MALAYSIA  
Planning Division  
Health Informatics Centre  
MOH/S/RAN/47.17(AR)  
(NOVEMBER 2017)

## Environmental Health for Rural Area<sup>1</sup>, 2016

Percentage of Houses Served with Clean Water Supply	95.87%
Percentage of Houses Served with Sanitary Latrines	96.04%
Percentage of Houses Served with Sullage Disposal	67.36%
Percentage of Houses Served with Solid Waste Disposal	71.84%

<sup>1</sup> Rural area refers to area outside Local Authority/Municipality's operational area

## Childhood Immunisation Coverage, 2016

B.C.G. Immunisation Coverage of Infants <sup>1</sup>	98.26%
DPT – Hib Immunisation Coverage of Infants (3rd Dose) <sup>2 (P)</sup>	97.97%
Polio Immunisation Coverage of Infants (3rd Dose) <sup>2 (P)</sup>	97.97%
MMR Immunisation Coverage of Children Aged 1 to < 2 years <sup>3 (P)</sup>	94.37%
Hepatitis B Immunisation Coverage of Infants (3rd Dose) <sup>2 (P)</sup>	97.97%
HPV Immunisation Coverage of Girls Aged 13 years (2nd Dose) <sup>4 (P)</sup>	83.02%

<sup>1</sup> Denominator: Live births from TBIS (Tuberculosis Information System)

<sup>2</sup> Denominator: Live births (2015) from Department of Statistics, Malaysia.

<sup>3</sup> Denominator: Population aged 1 to < 2 years

<sup>4</sup> Denominator: Female population aged 13 years

<sup>(P)</sup> Preliminary

Source: Department of Public Health, MoH

## Incidence Rate and Mortality Rate of Communicable Diseases, 2016 (per 100,000 Population)

Communicable Diseases	Incidence Rate	Mortality Rate
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### Sexually Transmitted Diseases

Chancroid	0.00	-
Gonorrhoea	9.12	-
Syphilis	6.50	0.04

### Other Infectious Diseases

AIDS	3.86	2.34
Ebola	-	-
Hand, Foot & Mouth Diseases	148.47	-
Hepatitis C	8.35	0.30
HIV	10.73	0.53
Leprosy	0.65	-
Leptospirosis	16.69	0.16
Other Specified Viral Hepatitis	0.08	0.00
Rabies	-	-
Relapsing Fever	-	-
Tuberculosis	81.30	6.14
Viral Encephalitis	0.16	0.01

### Vaccine Preventable Diseases

Acute Poliomyelitis	-	-
Diphtheria	0.10	0.02
Hepatitis B	12.29	0.18
Measles	5.01	0.02
Neonatal Tetanus <sup>1</sup>	0.01	-
Other Tetanus	0.05	0.01
Pertusis	0.94	0.01

<sup>1</sup> Per 1,000 live births (2015)

Source: Disease Control Division, MoH

(-) No case

## Incidence Rate and Mortality Rate of Communicable Diseases, 2016 (per 100,000 Population)

Communicable Diseases	Incidence Rate	Mortality Rate
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### Food and Water Borne Diseases

Cholera	0.54	-
Dysentery	0.40	0.00
Food Poisoning	55.21	0.02
Hepatitis A	0.27	-
Typhoid	0.57	0.01

### Vector Borne Diseases

Dengue	318.13	-
Dengue Haemorrhagic Fever	2.01	0.75
Malaria	7.27	0.01
Plague	-	-
Typhus	0.00	-
Yellow Fever	-	-

## Ten Principal Causes of Hospitalisation in MoH & Private Hospitals, 2016<sup>P</sup>

1. Pregnancy, childbirth and the puerperium	18.96%
2. Diseases of the respiratory system	13.78%
3. Certain infectious and parasitic diseases	10.55%
4. Injury, poisoning and certain other consequences of external causes	7.61%
5. Diseases of the circulatory system	7.44%
6. Certain conditions originating in the perinatal period	6.49%
7. Diseases of the digestive system	6.14%
8. Diseases of the genitourinary system	5.11%
9. Neoplasms	4.19%
10. Factors influencing health status and contact with health services	3.42%

## Ten Principal Causes of Hospitalisation in Private Hospitals, 2016

1. Diseases of the respiratory system	15.93%
2. Certain infectious and parasitic diseases	14.57%
3. Pregnancy, childbirth and the puerperium	9.90%
4. Diseases of the digestive system	9.56%
5. Injury, poisoning and certain other consequences of external causes	7.51%
6. Diseases of the circulatory system	7.32%
7. Diseases of the genitourinary system	6.92%
8. Diseases of the musculoskeletal system and connective tissue	5.92%
9. Neoplasms	4.24%
10. Factors influencing health status and contact with health services	3.81%

## Ten Principal Causes of Hospitalisation in MoH, 2016<sup>P</sup>

1. Pregnancy, childbirth and the puerperium	23.07%
2. Diseases of the respiratory system	12.80%
3. Certain infectious and parasitic diseases	8.74%
4. Certain conditions originating in the perinatal period	8.67%
5. Injury, poisoning and certain other consequences of external causes	7.66%
6. Diseases of the circulatory system	7.50%
7. Diseases of the digestive system	4.58%
8. Diseases of the genitourinary system	4.29%
9. Neoplasms	4.17%
10. Factors influencing health status and contact with health services	3.24%

## Admissions and Outpatient Attendances, 2016

**Government (contd.)**

- Ministry of Health**
  - Admissions<sup>1</sup>**

Hospitals	2,510,438
Special Medical Institutions	61,442
  - Outpatient Attendances**

Hospitals	20,721,556
Special Medical Institutions	326,665
Public Health Facilities <sup>2</sup>	40,154,008
  - Day Care Attendances**

Hospitals <sup>3</sup>	1,420,174
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  - Clinical Support Service Attendances**

Medical Rehabilitation (Hearing) <sup>4</sup>	119,020
Medical Rehabilitation (Speech) <sup>5</sup>	63,022
Medical Social Services <sup>6</sup>	98,378
Dietetic <sup>7</sup>	270,738
Medical Rehabilitation (Occupational Therapy) <sup>8</sup>	529,054
Medical Rehabilitation (Physiotherapy) <sup>9</sup>	1,435,321
  - Dental Health Attendances**

Dental Clinics	12,232,963
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- Maternal & Child Health Attendances**

Ante-natal Attendances	6,003,606
Post-natal Attendances	531,019
Child Attendances	8,783,819
- Non Ministry of Health Hospitals**

Admissions	159,699
Outpatient Attendances	2,280,320
- Private Hospitals<sup>10</sup>**

Admissions	1,073,039
Outpatient Attendances	3,821,698

<sup>1</sup> Based on 98.58% response rate.  
<sup>2</sup> Based on 99.28% response rate.  
<sup>3</sup> Based on 88.67% response rate.  
<sup>4</sup> Based on 95.00% response rate.  
<sup>5</sup> Based on 95.50% response rate.  
<sup>6</sup> Based on 91.78% response rate.  
<sup>7</sup> Based on 93.69% response rate.  
<sup>8</sup> Based on 85.14% response rate.  
<sup>9</sup> Based on 91.81% response rate.  
<sup>10</sup> Based on 93.04% response rate. Includes Private Hospitals, Private Maternity Homes, Private Nursing Homes and Private Hospice.

## Ten Principal Causes of Death\* in Private Hospitals, 2016

1. Neoplasms	26.71%
2. Diseases of the circulatory system	26.43%
3. Diseases of the respiratory system	13.80%
4. Certain infectious and parasitic diseases	13.36%
5. Diseases of the genitourinary system	4.19%
6. Diseases of the digestive system	4.09%
7. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	2.92%
8. Injury, poisoning and certain other consequences of external causes	1.67%
9. Endocrine, nutritional and metabolic diseases	1.25%
10. Certain conditions originating in the perinatal period	0.94%

Note: Based on 3 digit code grouping ICD10. \* Based on immediate causes of death.  
<sup>P</sup> Preliminary

## Ten Principal Causes of Death\* in MoH Hospitals, 2016<sup>P</sup>

1. Diseases of the circulatory system	22.62%
2. Diseases of the respiratory system	21.65%
3. Certain infectious and parasitic diseases	13.30%
4. Neoplasms	12.61%
5. Diseases of the genitourinary system	4.65%
6. Diseases of the digestive system	4.56%
7. External causes of morbidity and mortality	4.50%
8. Certain conditions originating in the perinatal period	2.56%
9. Endocrine, nutritional and metabolic diseases	2.39%
10. Disease of the nervous system	1.65%

Note: Based on 3 digit code grouping ICD10. \* Based on underlying causes of death.  
<sup>P</sup> Preliminary

## Admissions and Outpatient Attendances, 2016

**Government**

- Ministry of Health**
  - Admissions<sup>1</sup>**

Hospitals	2,510,438
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  - Outpatient Attendances**

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Dental Clinics	12,232,963
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<sup>7</sup> Based on 93.69% response rate.  
<sup>8</sup> Based on 85.14% response rate.  
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<sup>10</sup> Based on 93.04% response rate. Includes Private Hospitals, Private Maternity Homes, Private Nursing Homes and Private Hospice.

## Land Area

Malaysia 330,713 sq. km Source : Department of Survey & Mapping, Malaysia

Population and Vital Statistics	2016			2015			2014		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total Population <sup>(a)</sup> ('000)	31,660.7	16,362.5	15,298.2	31,186.1	16,112.1	15,074.0	30,708.5	15,867.8	14,840.7
Population Density (per sq.km)	95.7			94.3			92.9		
Population by Age Group: ( <sup>(a)</sup> number & percentage)									
• Below 15 years ('000)	7,763.3 (24.5%)	3,999.5 (24.4%)	3,763.8 (24.6%)	7,775.8 (24.9%)	4,002.1 (24.8%)	3,773.7 (25.0%)	7,773.6 (25.3%)	4,000.8 (25.3%)	3,772.8 (25.4%)
• 15 – 64 years ('000)	21,983.3 (69.4%)	11,436.0 (69.9%)	10,547.3 (68.9%)	21,589.0 (69.3%)	11,228.2 (69.7%)	10,360.8 (68.8%)	21,200.8 (69.0%)	11,028.0 (69.4%)	10,172.8 (68.6%)
• 65 years & above ('000)	1,914.1 (6.1%)	927.1 (5.7%)	987.0 (6.5%)	1,821.4 (5.8%)	881.8 (5.5%)	939.6 (6.2%)	1,734.1 (5.7%)	838.9 (5.3%)	895.2 (6.0%)
Annual Population Growth Rate (%)	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.7	1.6
Crude Birth Rate (per 1,000 population)	16.1	16.1	16.1	16.7	16.7	16.7	17.2	17.2	17.2
Crude Death Rate (per 1,000 population)	5.1	5.7	4.5	5.0	5.6	4.4	4.9	5.5	4.3
Stillbirth Rate (per 1,000 births)	5.2	5.2	5.2	4.4	4.7	4.1	4.3	4.6	3.9
Perinatal Mortality Rate (per 1,000 births)	8.3	8.5	8.1	7.7	8.3	7.1	7.4	8.1	6.6
Neonatal Mortality Rate (per 1,000 live births)	4.2	4.4	3.9	4.3	4.7	3.9	4.2	4.6	3.7
Infant Mortality Rate (per 1,000 live births)	6.7	7.1	6.2	6.9	7.3	6.4	6.7	7.3	6.1
Toddler Mortality Rate (per 1,000 population aged 1 – 4 years)	0.4	0.4	0.3	0.4	0.4	0.3	0.4	0.4	0.4
Under – 5 Mortality Rate (per 1,000 live births)	8.1	8.6	7.6	8.4	9.0	7.7	8.3	8.9	7.6
Maternal Mortality Ratio (per 100,000 live births)	29.1	:	29.1	23.8	:	23.8	22.3	:	22.3
Life Expectancy at Birth (in years)	74.7 <sup>p</sup>	72.5 <sup>p</sup>	77.2 <sup>p</sup>	74.6	72.5	77.1	74.5	72.4	77.0
Distribution of Live Births by Birthweight (%):									
• under 2.5 kg	11.41	10.45	12.43	11.53	10.55	12.58	11.20	10.27	12.18
• 2.5 kg and over	88.45	89.40	87.43	88.31	89.28	87.27	88.62	89.55	87.63
• unknown	0.14	0.15	0.14	0.16	0.17	0.15	0.18	0.18	0.19

<sup>a</sup> 2014-2016: Current Population Estimates 2014 (Final), 2015 (Final) and 2016 (Estimates).  
<sup>(p)</sup> Preliminary data  
 Source: Department of Statistics, Malaysia  
 The added total differ due to rounding.

## Financial Allocation, 2017

Total MoH Allocation RM24,800,986,200

- Operating RM23,462,797,400

- Development RM1,338,188,800

Per Capita Income<sup>1</sup> (current prices) RM39,699 (forecast)

Percentage of Total MoH Allocation to National Budget 9.44%

Sources: Estimated Federal Budget 2017, Ministry of Finance  
 Economic Report 2016/2017, Ministry of Finance

## National Health Accounts

Indicator	2014	2015
Total Expenditure on Health (Public & Private) (in million)	RM49,193 <sup>1</sup> (RM50,278) <sup>2</sup>	RM52,609
Total Expenditure on Health as a Percentage of GDP	4.45% <sup>1</sup> (4.54%) <sup>2</sup>	4.55%
Public Expenditure as a Percentage of Total Expenditure on Health	53.15% <sup>1</sup> (52.43%) <sup>2</sup>	51.47%

<sup>1</sup> Final Figure. The change is due to review of methodology  
<sup>2</sup> Data published in Health Facts 2016  
 Source: Database MNHA 1997 - 2015, MNHA Section, Planning Division, MoH

## Healthcare Facilities, 2016 (as of 31 December)

**Government**

• **Ministry of Health**

**Hospitals and Special Medical Institutions**

- Hospitals 135

- Special Medical Institutions<sup>1</sup> 9

**Health Clinics**

- Health Clinics<sup>2</sup> 1,060

- Community Clinics (Klinik Desa) 1,803

- Mobile Health Clinics (Teams) -

- Flying Doctor Services (Teams) 6 (Helicopters)

<sup>1</sup> refers to Rehabilitation Hospital (1), Women & Children Hospital (1), National Leprosy Control Centre (1), Institute of Respiratory Medicine (1), National Cancer Institute (1) and Psychiatric Institutions (4)  
<sup>2</sup> Health Clinics include Maternal & Child Health Clinics

## Healthcare Facilities, 2016 (as of 31 December)

**Government (contd.)**

• **Ministry of Health**

**Dental Clinics**

- Standalone Dental Clinics 56

- Dental Clinics in Health Clinics<sup>1</sup> 587

**Dental Mobile Teams**

- Pre-School 136

- Primary & Secondary School 446

- Elderly/Special Children 4

<sup>1</sup> Includes Dental Clinics in Maternal & Child Health Clinics  
<sup>2</sup> Includes Dental Clinics in primary and secondary school  
<sup>a</sup> Refers to portable dental chairs.

## Healthcare Facilities, 2016 (as of 31 December)

**Government (contd.)**

• **1 Malaysia Clinics**

- 1 Malaysia Clinics 357

- 1 Malaysia Mobile Clinics (Bus) 7

- 1 Malaysia Mobile Clinics (Boat) 4

**Non Ministry of Health**

Hospitals<sup>b</sup> 9

<sup>a</sup> Refers to portable dental chairs.  
<sup>b</sup> Refers to 5 Army Hospitals and 4 University Hospitals.

## Healthcare Facilities, 2016 (as of 31 December)

**Private**

• **Licensed**

Hospitals 187

Maternity Homes 10

Nursing Homes 17

**Registered**

Medical Clinics 7,335

Dental Clinics 1,992

<sup>1</sup> Refers to Banks/Tanks  
<sup>2</sup> Refers to dialysis chairs  
<sup>3</sup> Combination of Ambulatory Care and Haemodialysis Centre  
 Source: Medical Practice Division, MoH

## Health Human Resources, 2016 (as of 31 December)

MoH Non Private Total Profession: Population

Doctors<sup>a</sup> 36,403<sup>1</sup> n.a. 13,684<sup>2</sup> 50,087 1:632

Dentists<sup>3</sup> 3,998 593 2,595 7,186 1:4,406

Pharmacists<sup>4</sup> 6,303 196 4,009 10,508 1:3,013

Opticians<sup>5</sup> - - 3,259 3,259 1:9,715

Optometrists<sup>5</sup> 287 58 1,456 1,801 1:17,580

Assistant Medical Officers 12,812<sup>1</sup> 896<sup>6</sup> 1,894<sup>6</sup> 15,602 1:2,029

Nurses 65,227<sup>1</sup> 6,798<sup>7</sup> 30,539<sup>7</sup> 102,564 1:309

Pharmacy Assistants 4,101<sup>1</sup> 342<sup>4</sup> 1,229<sup>4</sup> 5,672 -

Assistant Environmental Health Officers 4,616<sup>1</sup> n.a. n.a. 4,616 -

Medical Laboratory Technologists 6,329<sup>1</sup> n.a. n.a. 6,329 -

<sup>a</sup> Refers to registration of local and foreign practitioners  
<sup>b</sup> not applicable

## Health Human Resources, 2016 (as of 31 December)

MoH Non-Private Total Profession: Population

Occupational Therapists 1,073<sup>1</sup> n.a. n.a. 1,073 -

Physiotherapists 1,373<sup>1</sup> n.a. n.a. 1,373 -

Radiographers (Diagnostic & Therapists) 2,826<sup>1</sup> n.a. n.a. 2,826 -

Dental Nurses 2,785<sup>1</sup> 60<sup>8</sup> - 2,845 -

Community Nurses 24,510<sup>1</sup> 214<sup>7</sup> 416<sup>7</sup> 25,140 -

Dental Technologists 923<sup>1</sup> 119<sup>8</sup> 813<sup>8</sup> 1,855 -

Dental Surgery Assistants 3,783<sup>1</sup> 341<sup>8</sup> 53<sup>8</sup> 4,177 -

Traditional & Complementary Medicine Practitioners<sup>9</sup> - - - 17,973<sup>9</sup> -

<sup>1</sup> Human Resources Division, MoH  
<sup>2</sup> Malaysian Medical Council  
<sup>3</sup> Malaysian Dental Council  
<sup>4</sup> Pharmaceutical Services Division, MoH  
<sup>5</sup> Malaysian Optical Council  
<sup>6</sup> Medical Assistant Board  
<sup>7</sup> Malaysian Nursing Board  
<sup>8</sup> Oral Health Division, MoH  
<sup>9</sup> Traditional & Complementary Medicine Division, MoH

## Health Human Resources, 2016 (as of 31 December)

**Note:**

n.a: not available  
<sup>a</sup> Includes House Officers  
<sup>b</sup> refers to registration of local and foreign practitioners  
<sup>c</sup> not applicable

**Sources:**

<sup>1</sup> Human Resources Division, MoH  
<sup>2</sup> Malaysian Medical Council  
<sup>3</sup> Malaysian Dental Council  
<sup>4</sup> Pharmaceutical Services Division, MoH  
<sup>5</sup> Malaysian Optical Council  
<sup>6</sup> Medical Assistant Board  
<sup>7</sup> Malaysian Nursing Board  
<sup>8</sup> Oral Health Division, MoH  
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