



HEALTH FACTS

2020

Reference Data
for year 2019

MINISTRY OF HEALTH MALAYSIA

Planning Division
Health Informatics Centre
MOH/S/RAN/174.20(PT)-e
(OCTOBER 2020)

Land Area, Population and Vital Statistic

Land Area: Malaysia - 330,524.19 sq.km

Source: Department of Survey & Mapping, Malaysia

Population and Vital Statistics		2019 ^e		2018		2017	
		Total	Male	Female	Total	Male	Female
Total Population ^a ('000)		32,581.4	16,830.6	15,750.8	32,382.3	16,721.4	15,660.8
Total Population Density (per sq.km)		99.0		98.0		97.0	
Population by Age Group: (number & percentage)							
-below 15 years ('000)		7,599.8 (23.3%)	3,921.8 (23.3%)	3,678.1 (23.4%)	7,705.7 (23.8%)	3,972.6 (23.8%)	3,733.2 (23.8%)
-15 - 64 years ('000)		22,795.6 (70.0%)	11,852.7 (70.4%)	10,943.0 (69.47%)	22,581.8 (69.7%)	11,735.8 (70.2%)	10,846.1 (69.3%)
-65 years & above ('000)		2,186.1 (6.7%)	1,056.2 (6.3%)	1,129.9 (7.2%)	2,094.7 (6.5%)	1,013.1 (6.1%)	1,081.6 (6.9%)
Annual Population Growth Rate (%)		0.6	0.7	0.6	1.1	1.1	1.2
Crude Birth Rate (per 1,000 population)					15.5	15.5	15.5
Crude Death Rate (per 1,000 population)					5.3	5.9	4.7
Stillbirth Rate (per 1,000 births)					5.5	5.8	5.1
Perinatal Mortality Rate (per 1,000 births)					8.9	9.6	8.2
Neonatal Mortality Rate (per 1,000 live births)					4.6	5.0	4.2
Infant Mortality Rate (per 1,000 live births)					7.2	7.7	6.7
Toddler Mortality Rate (per 1,000 population aged 1-4 years)					0.4	0.4	0.4
Under-5 Mortality Rate (per 1,000 live births)					8.8	9.4	8.2
Maternal Mortality Ratio (per 100,000 live births)					23.5	:	23.5
Life Expectancy at Birth (in years)		74.5 ^e	72.2 ^e	77.3 ^e	74.5 ^p	72.2 ^p	77.1 ^p
Distribution Live Births by Birthweight (%):							
-Under 2.5 kg					11.8	10.8	12.9
-2.5 kg & over					88.1	89.1	87.1
-Unknown					0.1	0.1	0.1

Notes:

^a 2017 - 2019 : Current Populasi estimates ; 2017 and 2018 (final), 2019 (estimates)
The added total may differ due to rounding

^e - Estimates
^p - Preliminary
: Not applicables
Data Not Yet Available

Source: Department of Statistics, Malaysia

Financial Allocation 2020

Total MoH Allocation	30,602,080,900
◦ Operating	27,941,530,900
◦ Development	2,660,550,000
Per Capita Income¹ (current prices)	47,155
Percentage of Total MoH Allocation to National Budget	10.3%

Sources: Estimated Federal Budget 2019, Ministry of Finance

¹ Economic Report 2018/2019, Ministry of Finance

National Health Accounts

Indicator	2017	2018
Total Expenditure on Health (Public & Private) (In Million)	RM 56,114 ¹ (RM 57,361) ²	RM 60,147
Total Expenditure on Health as a Percentage of GDP	4.09% ¹ (4.24%) ²	4.16%
Public Expenditure as a Percentage of Total Expenditure on Health	52.0% ¹ (51.15%) ²	51.90%

¹ Final Figure: Data from 1997-2018 MNHA database

² Data from 1997-2017 MNHA database, published in Health Facts 2019

Source: Database MNHA 1997 - 2018, MNHA Section, Planning Division, Ministry of Health Malaysia

Healthcare Facilities 2019

(as of 31 December)

Government

- Ministry of Health

	No.	Official beds
Hospitals and Special Medical Institutions	144	42,936 ³
◦ No. of Hospitals	135	38,131
◦ No. Special Medical Institutions ¹	9	4,805
Health Clinics	No.	Teams
◦ Health Clinics ²	1,114	-
◦ Rural Clinics (K.Desha)	1,771	-
◦ Mobile Health Clinics (Teams)	-	230
◦ Flying Doctor Services (Teams)	5 ⁴	11

¹ 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)

² Health Clinics include Maternal & Child Health Clinics

³ Total official beds as reported in SMRP 2.0

⁴ Number of helicopter

Healthcare Facilities 2019 (as of 31 December)

Government (cont'd)

• Ministry of Health

	No.	Dental Chairs
Dental Clinics		
◦ Standalone Dental Clinics	61	542
◦ Dental Clinics in Health Clinics ¹	577	1,581
◦ Dental Clinics in Hospitals	74	481
◦ Dental Clinics in Other Institutes	21	21
◦ School Dental Clinics ²	920	810
◦ Mobile Dental Clinics ²	34	56
Dental Mobile Teams		
◦ Pre-School	137	} 2,273 ³
◦ Primary and Secondary School	454	
◦ Elderly and Special Children	4	

¹ Include Dental Clinics in Maternal & Child Health Clinics

² Include Dental Clinics in primary and secondary school

³ Refers to portable chairs

Healthcare Facilities 2019 (as of 31 December)

Government (cont'd)

• Ministry of Health

Community ¹ Clinics	No.	Teams
◦ Community Clinics	286	-
◦ Community Mobile Clinics (Bus)	7	11
◦ Community Mobile Clinics (Boat)	4	8
Community ¹ Dental Clinics	No.	Dental Chairs
◦ Community Dental Clinics (UTC)	21	41
◦ Community Dental Clinics (RTC)	5	12
◦ Community Dental Mobile Clinics (Bus)	1	1
◦ Community Dental Mobile Clinics (Boat)	1	1 ²

• Non Ministry of Health

	No.	Official beds
Hospitals ³	10	4,052

¹ Formerly known as 1Malaysia Clinics (before year 2019)

² Refers to portable chairs

³ Refers to 5 Army Hospitals and 5 University Hospitals

Healthcare Facilities 2019

(as of 31 December)

Private

• Licensed

	No.	Official Beds
Hospitals	208	16,469
Maternity Homes	18	52
Nursing Homes	21	775
Hospice	3	29
Ambulatory Care Centre	128	203
Blood Bank	5	28
Haemodialysis Centre	511	6300
Community Mental Health Centre	1	0
Combined Facilities ³	2	22/26 ²

• Registered

	No.	Official Beds
Medical Clinics	7,988	-
Dental Clinics	2,507	-

¹ Refers to banks/Tanks

² Refers to Dialysis Chairs

³ Combination of Ambulatory Care and Haemodialysis Centre

Source: Medical Practice Division, Ministry of Health Malaysia.

Health Human Resources 2019

(as of 31 December)

	MoH	Non-MoH	Private	Total	Profession: Population ^d
Doctors ^a	48,478 ¹	3,651 ²	15,457 ³	67,586	1 : 482
• <i>Medical officers & Specialists</i>	36,556	3,651	15,457	55,664	
• <i>House Officers</i>	11,922	n.a	n.a	11,922	
Dentists ⁴	6,349	738	3,714	10,801	1 : 3,017
Pharmacists ⁵	12,840	713	5,385	18,938	1 : 1,720
• <i>Annual Certificate</i>	8,995	278	5,086	14,359	
• <i>Fully Registration (new)</i>	1,755	435	n.a	2,190	
• <i>Provisionally Registration</i>	2,090	n.a	299	2,389	
Nurses	65,819 ¹	5,959 ⁸	35,970 ⁸	107,748	1 : 302
Community Nurses	22,985 ¹	198 ⁸	327 ⁸	23,510	1 : 1,386
Assistant Medical Officers	15,452 ¹	234 ⁷	3,522 ⁷	19,208	1 : 1,696
Pharmacy Assistants	4,228 ¹	468 ⁵	1,714 ⁵	6,410	1 : 5,083
Dental Therapists ^{1,b}	2,812	n.a	n.a	2,812	1 : 3,512 ^e
Dental Technologists ¹	960	n.a	n.a	960	1 : 33,939
Dental Surgery Assistants ¹	4,202	n.a	n.a	4,202	1 : 7,754

Health Human Resources 2019

(as of 31 December)

	MoH	Non-MoH	Private	Total	Profession: Population ^d
Optometrists ⁶	291	60	1,414	1,765	1 : 18,460
Opticians ⁶	n.a	n.a	2,451	2,451	1 : 13,293
Environmental Health Officers ¹	217	n.a	n.a	217	1 : 150,145
Assistant Environmental Health Officers ¹	5,010	n.a	n.a	5,010	1 : 6,503
Medical Laboratory Technologists ¹	6,460	n.a	n.a	6,460	1 : 5,044
Radiographers (Diagnostic & Therapists) ¹	2,919	n.a	n.a	2,919	1 : 11,162
Occupational Therapists ¹	1,213	n.a	n.a	1,213	1 : 26,860
Physiotherapists ¹	1,425	n.a	n.a	1,425	1 : 22,864
Traditional & Complementary Medicine Practitioners ^{9,c}	n.a	n.a	16,185	16,185	1 : 2,013

Health Human Resources 2019

(as of 31 December)

Note:

n.a: not available

^a Includes House Officers

^b formally known as Dental Nurses

^c refers to registration of local and foreign practitioners

^d Current Population Estimated (estimate)

^e Ratio to current ≤ 18 year-old population (estimate)

Sources:

¹ Human Resources Division, MoH

² Ministry of Education, Ministry of Defence (MinDef) & other government agencies

³ Malaysian Medical Council

⁴ Malaysian Dental Council

⁵ Pharmacy Board Malaysia

⁶ Malaysian Optical Council

⁷ Malaysian Medical Assistant Board

⁸ Malaysian Nursing Board

⁹ Traditional & Complementary Medicine Division, Ministry of Health Malaysia

Admissions and Attendances

Government

• Ministry of Health

Admissions¹	2018 actual	2019 Preliminary
◦ Hospitals	2,581,708	2,619,760
◦ Special Medical Institutions	66,372	66,697
Day Care Attendances²		
◦ Hospitals	1,561,638	1,707,164
◦ Special Medical Institutions	38,819	41,721
Outpatient Attendances		2019
◦ Hospitals		21,590,312
◦ Special Medical Institutions ³		358,428
◦ Public Health Facilities ⁴		45,750,286
Dental Health Attendances		
◦ Dental Clinics		13,918,272
Clinical Support Service Attendances	2019	
	Manual Submission	MyHDW Submission
◦ Medical Rehabilitation (Hearing) ⁵	175,302	120,806
◦ Medical Rehabilitation (Speech) ⁶	107,781	71,269
◦ Medical Social Services ⁷	125,908	70,789
◦ Dietetic ⁸	362,246	214,637
◦ Medical Rehabilitation (Occupational Therapy) ⁹	1,242,928	479,372
◦ Medical Rehabilitation (Physiotherapy) ¹⁰	2,860,850	1,076,090

Admissions and Attendances 2019

Government (cont'd)

• Ministry of Health

Maternal & Child Health Attendances

◦ Antenatal Attendances	6,164,662
◦ Postnatal Attendances	488,603
◦ Child Attendances	10,463,308

• Non Ministry of Health Hospitals

Admissions	169,602
Outpatient Attendances	2,578,988

• Private Hospitals¹¹

Admissions	1,170,558
Outpatient Attendances	3,548,778

¹ Based on 97.94 % submission rate.

² Based on 95.37 % submission rate.

³ Based on 100.00 % response rate.

⁴ Based on 88.19 % response rate.

⁵ Based on 68.91 % submission rate.

⁶ Based on 66.12% submission rate.

⁷ Based on 56.22% submission rate.

⁸ Based on 59.25% submission rate.

⁹ Based on 38.57% submission rate.

¹⁰ Based on 37.61% submission rate.

¹¹ Based on 88.78% response rate. Include Private Hospitals, Private Maternity Homes, Private Nursing Homes and Private Hospice

Ten Principal Causes of Hospitalisation in MoH Hospital 2019

1	Pregnancy, childbirth and the puerperium	20.94%
2	Diseases of the respiratory system	13.26%
3	Certain conditions originating in the perinatal period	9.45%
4	Certain infectious and parasitic diseases	8.71%
5	Diseases of the circulatory system	8.11%
6	Injury, poisoning and certain other consequences of external causes	7.05%
7	Neoplasms	4.70%
8	Diseases of the digestive system	4.57%
9	Diseases of the genitourinary system	4.13%
10	Factors influencing health status and contact with health services	3.04%

Ten Principal Causes of Deaths* in MoH Hospital 2019

1	Diseases of the circulatory system	22.27%
2	Diseases of the respiratory system	21.17%
3	Certain infectious and parasitic diseases	12.47%
4	Neoplasms	12.18%
5	Diseases of the genitourinary system	5.93%
6	Endocrine, nutritional and metabolic diseases	5.42%
7	Diseases of the digestive system	4.78%
8	External causes of morbidity and mortality	4.38%
9	Certain conditions originating in the perinatal period	2.21%
10	Diseases of the nervous system	2.07%

Note: Based on 3 digit code grouping ICD 10.

** Based on underlying causes of deaths*

Ten Principal Causes of Hospitalisation in Private Hospital 2019

1	Diseases of the respiratory system	18.55%
2	Certain infectious and parasitic diseases	14.28%
3	Diseases of the digestive system	9.90%
4	Diseases of the circulatory system	7.44%
5	Injury, poisoning and certain other consequences of external causes	7.42%
6	Pregnancy, childbirth and the puerperium	6.89%
7	Diseases of the genitourinary system	6.62%
8	Diseases of the musculoskeletal system and connective tissue	6.54%
9	Neoplasms	4.44%
10	Factors influencing health status and contact with health services	3.58%

Ten Principal Causes of Deaths* in Private Hospital 2019

1	Neoplasms	31.19%
2	Diseases of the circulatory system	22.61%
3	Diseases of the respiratory system	15.57%
4	Certain infectious and parasitic diseases	12.92%
5	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	3.77%
6	Diseases of the digestive system	3.69%
7	Diseases of the genitourinary system	3.56%
8	Endocrine, nutritional and metabolic diseases	1.39%
9	Injury, poisoning and certain other consequences of external causes	1.10%
10	Diseases of the nervous system	1.02%

Note: Based on 3 digit code grouping ICD 10.

Ten Principal Causes of Hospitalisation in MoH & Private Hospital 2019

1	Pregnancy, childbirth and the puerperium	16.77%
2	Diseases of the respiratory system	14.83%
3	Certain infectious and parasitic diseases	10.36%
4	Diseases of the circulatory system	7.91%
5	Injury, poisoning and certain other consequences of external causes	7.16%
6	Certain conditions originating in the perinatal period	7.03%
7	Diseases of the digestive system	6.15%
8	Diseases of the genitourinary system	4.87%
9	Neoplasms	4.62%
10	Factors influencing health status and contact with health services	3.20%

Note: Based on 3 digit code grouping ICD 10.

Incidence Rate and Mortality Rate of Communicable Diseases 2019 (per 100,000 population)

Communicable Diseases	Incidence Rate	Mortality Rate
Food and Water Borne Diseases		
Cholera	0.25	0.01
Dysentery	0.67	0
Food Poisoning	50.90	0.03
Hepatitis A	0.29	0.00
Typhoid And Paratyphi	0.55	0.02
Vector Borne Diseases		
Dengue Fever	397.71	0
Dengue Haemorrhagic Fever	1.61	0.56
Chikungunya	3.04	0
Malaria	12.10	0.02
Japanese Encephalitis	0.11	0.01
Filariasis	1.53	0
Typhus	0.06	0.00
Zika Virus Infections	0.00	0
Plague	0	0
Yellow Fever	0	0
Vaccine Preventable Diseases		
Acute Poliomyelitis	0.01	0
Diphtheria	0.05	0.02
Hepatitis B	15.71	0.34
Measles	3.31	0.05
Neonatal Tetanus ¹	0.09	0.00
Other Tetanus	0.10	0.01
Whooping Cough (Pertusis)	2.81	0.06

Incidence Rate and Mortality Rate of Communicable Diseases 2019 (per 100,000 population)

Communicable Diseases	Incidence Rate	Mortality Rate
Sexually Transmitted Diseases		
Chancroid	0.01	0
Gonorrhoea	9.25	0
Syphilis	10.75	0.01
Other Infectious Diseases		
AIDS	3.44	2.54
Hand, Foot & Mouth Diseases	160.14	0
Hepatitis C	10.55	0.37
HIV	10.94	0.48
Leprosy	0.61	0
Leptospirosis	16.01	0.10
Other Specified Viral Hepatitis	0.02	0
Tuberculosis	80.88	3.69
Viral Encephalitis	0.13	0.01
Rabies	0.02	0.02
Other Viral Encephalitis	0.02	0.00
Ebola	0	0.00
Nipah	0	0
Mers-Cov	0	0
Relapsing Fever	0	0
Avian Influenza	0	0

¹ per 1,000 live birth

Source: Disease Control Division, Ministry of Health Malaysia

Childhood Immunisation Coverage 2019

B.C.G. Immunisation Coverage of Infants ¹	98.48%
DPT - Hib Immunisation Coverage of Infants (3rd Dose) ^{2(P)}	98.39%
Polio Immunisation Coverage of Infants (3rd Dose) ^{2(P)}	98.39%
MMR Immunisation Coverage of Children Aged 1 to < 2 years	97.67%
Hepatitis B Immunisation Coverage of Infants (3rd Dose - Completed Dose) ^{2(P)}	97.30%
HPV Immunisation Coverage of Girls 13 years (Completed 2 Doses) ³	99.45%

¹ Denominator: Live births from TBIS (Tuberculosis Information System)

² Denominator: Live births (2018) from Department of Statistics, Malaysia

³ Denominator: Female population aged 13 years

^(P) Preliminary

Source: Family Health Development Division, Ministry of Health Malaysia

Environmental Health for Rural Area¹ 2019

Percentage of Houses Served with Safe Water Supply	96.00%
Percentage of Houses Served with Sanitary Latrines	95.25%
Percentage of Houses Served with Sullage Disposal	67.53%
Percentage of Houses Served with Solid Waste Disposal	72.04%

¹ Rural area refers to area outside Local Authority/Municipality's operational area.