



MINISTRY OF HEALTH MALAYSIA

HEALTH FACTS 2021

Reference Data for year 2020



Health Informatics Centre
Planning Division
MOH/S/RAN/202.21(AR)
(NOVEMBER 2021)

Land Area, Population and Vital Statistics

Land Area : Malaysia - 330,411.35 sq.km

Source: Department of Survey & Mapping, Malaysia

Population and Vital Statistics	2020*			2019			2018		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total Population ^a ('000)	32,657.3	16,805.6	15,851.7	32,523.0	16,764.9	15,758.2	32,382.3	16,721.4	15,660.8
Total Population Density (per sq.km)	99.0	:	:	98.0	:	:	98.0	:	:
Population by Age Group: (number & percentage)									
- below 15 years ('000)	7,600.2 (23.3%)	3,923.7 (23.3%)	3,676.6 (23.2%)	7,652.5 (23.5%)	3,948.3 (23.6%)	3,704.2 (23.5%)	7,705.7 (23.8%)	3,972.6 (23.8%)	3,733.2 (23.8%)
- 15 - 64 years ('000)	22,763.8 (69.7%)	11,776.2 (70.1%)	10,987.6 (69.3%)	22,680.5 (69.8%)	11,758.7 (70.1%)	10,921.8 (69.3%)	22,581.8 (69.7%)	11,735.8 (70.2%)	10,846.1 (69.3%)
- 65 years & above ('000)	2,293.2 (7.0%)	1,105.7 (6.6%)	1,187.5 (7.5%)	2,190.0 (6.7%)	1,057.9 (6.3%)	1,132.1 (7.2%)	2,094.7 (6.5%)	1,013.1 (6.1%)	1,081.6 (6.9%)
Annual Population Growth Rate (%)	0.4	0.2	0.6	0.4	0.3	0.6	1.1	1.1	1.2
Crude Birth Rate (per 1,000 population)	14.4	14.5	14.3	15.0	15.1	14.9	15.5	15.5	15.5
Crude Death Rate (per 1,000 population)	5.1	5.7	4.4	5.3	5.9	4.7	5.3	5.9	4.7
Stillbirth Rate (per 1,000 births)	5.1	5.3	4.9	5.4	5.6	5.1	5.5	5.8	5.1
Perinatal Mortality Rate (per 1,000 births)	8.1	8.5	7.5	8.4	8.8	7.9	8.9	9.6	8.2
Neonatal Mortality Rate (per 1,000 live births)	3.9	4.2	3.5	4.1	4.3	3.8	4.6	5.0	4.2
Infant Mortality Rate (per 1,000 live births)	5.7	6.2	5.3	6.4	6.8	6.0	7.2	7.7	6.7
Toddler Mortality Rate (per 1,000 population aged 1-4 years)	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
Under-5 Mortality Rate (per 1,000 live births)	6.9	7.4	6.4	7.7	8.2	7.2	8.8	9.4	8.2
Maternal Mortality Ratio (per 100,000 live births)	24.9	:	24.9	21.1	:	21.1	23.5	:	23.5
Life Expectancy at Birth (in years)	75.1 ^p	72.8 ^p	77.8 ^p	74.8 ^p	72.5	77.4	74.6	72.3	77.2
Distribution Live Births by Birthweight (%):									
- Under 2.5 kg	11.7	10.7	12.8	12.1	11.0	13.2	11.8	10.8	12.9
- 2.5 kg & over	88.2	89.2	87.1	87.8	88.9	86.7	88.1	89.1	87.1
- Unknown	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Notes:

* 2018 - 2020 : Current Population estimates; 2018 and 2019 (final), 2020 (estimates)
The added total may differ due to rounding

^e Estimates

^p Preliminary
: Not applicable

Source: Department of Statistics, Malaysia



Financial Allocation, 2021

Total Allocation for Ministry of Health (MoH)	RM31,941,504,300
- Operating	RM27,223,685,300
- Development	RM4,717,819,000
Per Capita Income ¹ (current prices)	RM46,101
Percentage of Total MoH Allocation to National Budget	10.39%

Sources: Estimated Federal Budget 2021, Ministry of Finance

¹Economic Outlook 2021, Ministry of Finance

National Health Accounts

Indicator	2018	2019	2020
Total Expenditure on Health (Public & Private) (In Million)	RM60,445 ¹ (RM60,147) ²	RM64,241	RM67,022
Total Expenditure on Health as a Percentage of GDP	4.18% ¹ (4.16%) ²	4.25%	4.73%
Public Expenditure as a Percentage of Total Expenditure on Health	51.89% ¹ (51.90%) ²	53.25%	54.63%

¹ Final Figure: Data from 1997-2020 MNHA database

² Data from 1997-2018 MNHA database, published in Health Facts 2020

Source: Database MNHA 1997-2020, MNHA Section, Planning Division, MoH



Healthcare Facilities, 2020 (as of 31 December)

Government

- Ministry of Health

	No.	Official beds
Hospitals and Special Medical Institutions	146	44,117
- Hospitals	135	38,543
- Special Medical Institutions ¹	11	5,574
Low Risk COVID-19 Quarantine and Treatment Centres (PKRC)		
- PKRC	115	26,423
	No.	Teams
Health Clinics		
- Health Clinics ²	1,138	-
- Rural Clinics (Klinik Desa)	1,752	-
- Mobile Health Clinics (Team)	-	229
- Flying Doctor Services (Team)	5 ³	11

¹ Refers to Rehabilitation Hospital (1), Women & Children Hospital (2), National Leprosy Control Centre (1), Institute of Respiratory Medicine (1), National Cancer Institute (1), Pyschiatric Institutions (4) and Sarawak Heart Centre (1)

² Health Clinics include Maternal & Child Health Clinics

³ No. of Helicopter

Healthcare Facilities, 2020 (as of 31 December)

Government

- Ministry of Health

	No.	Dental Chairs
Dental Clinics		
- Standalone Dental Clinics	63	525
- Dental Clinics in Health Clinics ¹	586	1,616
- Dental Clinics in Hospitals	75	409
- Dental Clinics in Other Institutes	21	21
- School Dental Clinics ²	920	694
- Mobile Dental Clinics ²	34	53
Dental Mobile Teams		
- Pre-School	137	} 1,730 ³
- Primary and Secondary School	467	
- 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, 2020 (as of 31 December)

Government

• Ministry of Health

	No.	Teams
Community¹ Clinics		
- Community Clinics	257	-
- Community Mobile Clinics (Bus)	7	11
- Community Mobile Clinics (Boat)	4	8

	No.	Dental Chairs
Community¹ Dental Clinics		
- Community Dental Clinics (UTC)	22	42
- Community Dental Clinics (RTC)	4	6
- 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	4,188

¹ Formerly known as 1Malaysia (before year 2019)

² Refers to portable chairs

³ Refers to Army Hospitals (5) and University Hospitals (5)

Healthcare Facilities, 2020 (as of 31 December)

Private

• Licensed

	No.	Official Beds
Hospitals	202	17,155
Maternity Homes	17	48
Nursing Homes	21	821
Hospice	3	39
Ambulatory Care Centre	142	216
Blood Bank	5	28 ¹
Haemodialysis Centre	543	6,847
Community Mental Health Centre	1	0
Combined Facilities ²	2	18/26

• Registered

	No.	Official Beds
Medical Clinics	8,222	-
Dental Clinics	2,798	-

¹ Refers to tanks

² Combination of Ambulatory Care and Haemodialysis Centre provides 18 beds and 26 dialysis chairs

Source: Medical Practice Division, MoH

Health Human Resources, 2020 (as of 31 December)

	MoH	Non-MoH	Private	Total	Profession: Population ^d
Doctors ^a				73,996	1 : 441
- Annual Practicing Certificate	41,202 ^{1,2}		14,990 ¹	56,192	
- Full Registration ¹ (new)		n.a	n.a	4,668	
- House Officer	13,136 ³		n.a	13,136	
Dentists ⁴	6,642	801	4,154	11,597	1 : 2,816
Pharmacists ⁵				19,112	1 : 1,709
- Annual Certificate	10,324	317	5,450	16,091	
- Full Registration (new)	n.a	n.a	n.a	1,628	
- Provisional Registration	n.a	n.a	n.a	1,393	
Nurses	67,027 ³	5,799 ⁸	37,095 ⁸	109,921	1 : 297
Community Nurses	21,832 ³	200 ⁸	330 ⁸	22,362	1 : 1,460
Assistant Medical Officers	17,775 ³	698 ⁷	3,784 ⁷	22,257	1 : 1,467
Pharmacy Assistants	4,179 ³	496 ⁵	1,801 ⁵	6,476	1 : 5,043
Dental Therapists ^{3,b}	2,805	n.a	n.a	2,805	1 : 3,505 ^e
Dental Technologists ³	1,002	n.a	n.a	1,002	1 : 32,592
Dental Surgery Assistants ³	4,384	n.a	n.a	4,384	1 : 7,449

Health Human Resources, 2020 (as of 31 December)

	MoH	Non-MoH	Private	Total	Profession: Population ^d
Optometrists ⁶	300	67	1,789	2,156	1 : 15,147
Opticians ⁶	n.a	n.a	2,506	2,506	1 : 13,032
Environmental Health Officers ³	191	n.a	n.a	191	1 : 170,981
Assistant Environmental Health Officers ³	5,250	n.a	n.a	5,250	1 : 6,220
Medical Laboratory Technologists ³	6,650	n.a	n.a	6,650	1 : 4,911
Radiographers (Diagnostic & Therapists) ³	3,065	n.a	n.a	3,065	1 : 10,655
Occupational Therapists ³	1,199	n.a	n.a	1,199	1 : 27,237
Physiotherapists ³	1,440	n.a	n.a	1,440	1 : 22,679
Traditional & Complementary Medicine Practitioners ^{9,c}	n.a	n.a	16,105	16,105	1 : 2,028

Health Human Resources, 2020 (as of 31 December)

Note:

n.a: not available

^a Includes House Officers (Data from Human Resource Division and Ministry of Defense)

^b formally known as Dental Nurses

^c refers to the data collected from list of practitioner bodies before the coming into operation of the T&CM Act 2016 and foreign practitioners in 2020

^d Current Population Estimates (estimate)

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

^f All data from Human Resources Division, MoH was generated from HRMIS database based on 97% updated information

Sources:

¹ Malaysian Medical Council

² Ministry of Education, Ministry of Defence, statutory bodies & local councils

³ Human Resources Division, MoH

⁴ Malaysian Dental Council

⁵ Pharmacy Board Malaysia

⁶ Malaysian Optical Council

⁷ Malaysian Assistant Board

⁸ Malaysian Nursing Board

⁹ Traditional & Complementary Medicine Division, MoH

Admissions and Attendances, 2020

Government

• Ministry of Health

	2019 actual	2020 Preliminary
Admissions¹		
- Hospitals	2,687,181	2,284,303
- Special Medical Institutions	72,352	102,515

Day Care Attendances²		
- Hospitals	1,731,545	1,667,681
- Special Medical Institutions	42,604	61,032

	2020
Outpatient Attendances	
- Hospitals ³	16,635,350
- Special Medical Institutions ³	250,427
- Public Health Facilities ⁴	36,835,750

Dental Health Attendances	
- Dental Clinics	7,281,759

	2020	
Clinical Support Service Attendances	Manual Submission	MyHDW Submission
- Medical Rehabilitation (Hearing) ⁵	140,353	99,361
- Medical Rehabilitation (Speech) ⁶	84,767	61,300
- Medical Social Services ⁷	117,997	81,161
- Dietetic ⁸	344,182	219,186
- Medical Rehabilitation (Occupational Therapy) ⁹	837,556	492,319
- Medical Rehabilitation (Physiotherapy) ¹⁰	1,897,776	949,014

Admissions and Attendances, 2020

Government (cont'd)

• Ministry of Health

Maternal & Child Health Attendances

- Antenatal Attendances	5,913,666
- Postnatal Attendances	472,905
- Child Attendances	8,494,842

• Non Ministry of Health Hospitals

- Admissions	144,872
- Outpatient Attendances	2,043,037

• Private Hospitals¹¹

- Admissions	916,294
- Outpatient Attendances	3,091,487

• Low Risk COVID-19 Quarantine and Treatment Centres (PKRC)¹²

- Admissions	86,965
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¹ Based on 96.49% submission rate

² Based on 94.58% submission rate

³ Based on 99.31% response rate

⁴ Based on 100.00% response rate

⁵ Based on 70.79% submission rate

⁶ Based on 72.32% submission rate

⁷ Based on 68.78% submission rate

⁸ Based on 63.68% submission rate

⁹ Based on 58.78% submission rate

¹⁰ Based on 50.01% submission rate

¹¹ Based on 78.16% response rate. Include Private Hospitals, Private Maternity Homes, Private Nursing Homes and Private Hospice

¹² Source: Medical Development Division, MOH

Ten Principal Causes of Hospitalisation in MoH Hospital, 2020

1	Pregnancy, childbirth and the puerperium	22.24%
2	Certain conditions originating in the perinatal period	10.67%
3	Diseases of the respiratory system	9.01%
4	Diseases of the circulatory system	8.87%
5	Injury, poisoning and certain other consequences of external causes	6.92%
6	Certain infectious and parasitic diseases	6.80%
7	Neoplasms	5.17%
8	Diseases of the digestive system	4.68%
9	Diseases of the genitourinary system	4.22%
10	Endocrine, nutritional and metabolic diseases	3.10%

Ten Principal Causes of Deaths* in MoH Hospital, 2020

1	Diseases of the circulatory system	23.22%
2	Diseases of the respiratory system	19.69%
3	Certain infectious and parasitic diseases	13.02%
4	Neoplasms	11.56%
5	Diseases of the genitourinary system	6.16%
6	Endocrine, nutritional and metabolic diseases	6.09%
7	Diseases of the digestive system	4.89%
8	External causes of morbidity and mortality	3.95%
9	Certain conditions originating in the perinatal period	2.21%
10	Diseases of the nervous system	2.08%

Note: Based on 3 digit code grouping ICD-10

* Based on underlying causes of deaths

Ten Principal Causes of Hospitalisation in Private Hospital, 2020

1	Diseases of the respiratory system	11.55%
2	Certain infectious and parasitic diseases	11.30%
3	Diseases of the digestive system	11.04%
4	Pregnancy, childbirth and the puerperium	8.99%
5	Diseases of the circulatory system	8.65%
6	Injury, poisoning and certain other consequences of external causes	8.00%
7	Diseases of the genitourinary system	7.85%
8	Diseases of the musculoskeletal system and connective tissue	7.03%
9	Neoplasms	5.37%
10	Factors influencing health status and contact with health services	4.93%

Ten Principal Causes of Deaths in Private Hospital, 2020

1	Neoplasms	34.95%
2	Diseases of the circulatory system	23.87%
3	Certain infectious and parasitic diseases	12.64%
4	Diseases of the respiratory system	12.03%
5	Diseases of the genitourinary system	3.64%
6	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	3.45%
7	Diseases of the digestive system	3.42%
8	Injury, poisoning and certain other consequences of external causes	1.24%
9	Endocrine, nutritional and metabolic diseases	1.05%
10	Certain conditions originating in the perinatal period	1.02%

Note: Based on 3 digit code grouping ICD-10

Ten Principal Causes of Hospitalisation in MoH & Private Hospital, 2020

1	Pregnancy, childbirth and the puerperium	18.80%
2	Diseases of the respiratory system	9.67%
3	Diseases of the circulatory system	8.81%
4	Certain conditions originating in the perinatal period	8.34%
5	Certain infectious and parasitic diseases	7.96%
6	Injury, poisoning and certain other consequences of external causes	7.20%
7	Diseases of the digestive system	6.33%
8	Neoplasms	5.22%
9	Diseases of the genitourinary system	5.16%
10	Factors influencing health status and contact with health services	3.52%

Note: Based on 3 digit code grouping ICD-10

Incidence Rate and Mortality Rate of Communicable Diseases, 2020

(per 100,000 population)

Communicable Diseases	Incidence Rate	Mortality Rate
Food and Water Borne Diseases		
Cholera	0.35	0.00
Dysentery	0.48	0
Food Poisoning	28.93	0.02
Hepatitis A	0.14	0
Typhoid and Paratyphi	0.20	0
Vaccine Preventable Disease		
Diphtheria	0.04	0.02
Acute Poliomyelitis	0.00	0
Others Tetanus	0.06	0.01
Neonatal Tetanus ¹	0.03	0.01
Pertussis	0.42	0.02
Hepatitis B	12.64	0.26
Other Specified Viral Hepatitis	0.02	0
Measles	1.46	0.00
Vector Borne Diseases		
Chikungunya	7.98	0
Dengue Fever	276.11	0
Dengue Haemorrhagic	1.06	0.45
Japanese Encephalitis	0.09	0.01
Malaria	8.71	0.02
Plague	0	0
Relapsing Fever	0	0
Typhus	0.03	0
Yellow Fever	0	0
Zika Virus Infections	0	0
Filariasis	0.71	0

Incidence Rate and Mortality Rate of Communicable Diseases, 2020

(per 100,000 population)

Communicable Diseases	Incidence Rate	Mortality Rate
Tuberculosis/Leprosy		
Tuberculosis	72.57	7.12
Leprosy	0.60	0.02
Sexually Transmitted Infections		
AIDS	3.19	1.50
HIV	9.66	0.41
Chancroid	0.01	0
Gonorrhoea	7.18	0
Syphilis	10.63	0.05
Hepatitis C	10.13	0.25
Zoonosis		
Avian Influenza	0	0
Ebola	0	0
Hand, Foot and Mouth Diseases	52.90	0
Leptospirosis	8.94	0.12
Rabies	0.03	0.02
Viral Encephalitis	0.09	0.01
Nipah	0	0
Others Viral Encephalitis	0	0
Surveillance		
Mers-Cov	0	0
COVID-19	360.25	1.48

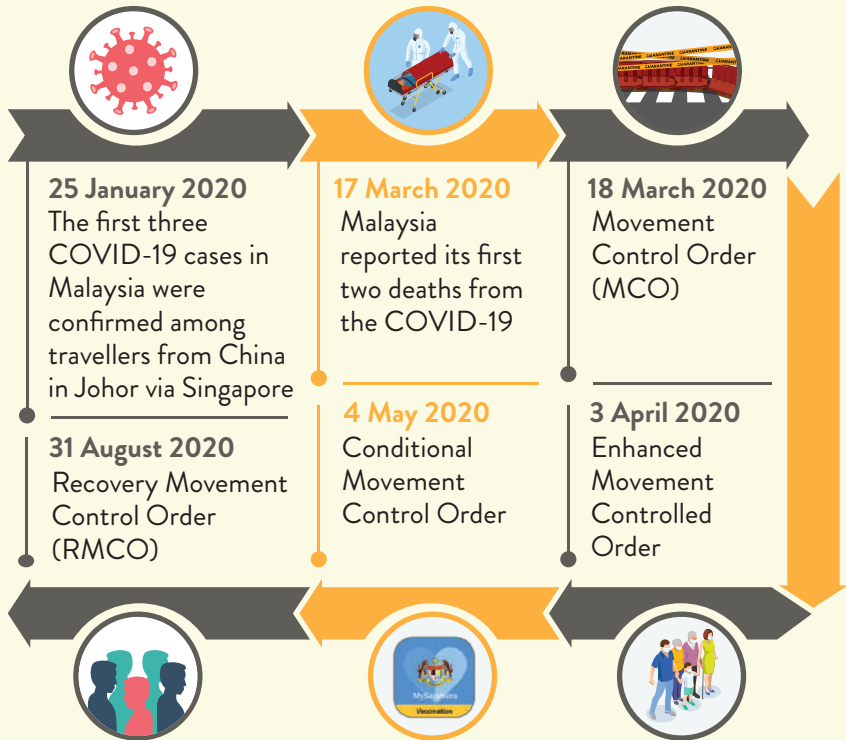
¹ per 1,000 live birth

Source: Disease Control Division, MoH

COVID-19, 2020 (as of 31 December)

Indicator	Total
Covid Test	4,317,441
Confirmed Cases	113,010
Deaths	471
Discharge	88,941
Cases ICU	14,736
Intubated	6,238
Cluster	511

Source: <https://github.com/MoH-Malaysia/covid19-public>, National CPRC, MoH



Childhood Immunisation Coverage, 2020

B.C.G. Immunisation Coverage of Infants ¹	98.80%
DPT - HIB Immunisation Coverage of Infants (3rd Dose) ^{2,P}	97.68%
Polio Immunisation Coverage of Infants (3rd Dose) ^{2,P}	97.68%
MMR Immunisation Coverage of Children Aged 1 to < 2 years	97.42%
Hepatitis B Immunisation Coverage of Infants (3rd Dose) ^{2,P}	101.23%
HPV Immunisation Coverage of Girls 13 years (2nd Dose) ³	95.73%

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

² Denominator: Live births (2019) from Department of Statistics, Malaysia

³ Denominator: Female population aged 13 years

^P Preliminary

Source: Family Health Development Division, MoH

Environmental Health for Rural Area¹, 2020

Percentage of Houses Served with Safe Water Supply	96.84%
Percentage of Houses Served with Sanitary Latrines	95.91%
Percentage of Houses Served with Sullage Disposal	68.31%
Percentage of Houses Served with Solid Waste Disposal	72.52%

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