



MINISTRY OF HEALTH MALAYSIA



2023 HEALTH FACTS

Reference Data for Year 2022

Health Informatics Centre
Planning Division
(October 2023)

LAND AREA, POPULATION AND VITAL STATISTICS

Land Area: Malaysia - 330,155.28 sq. km

Source: Department of Survey & Mapping, Malaysia

Population and Vital Statistics	2020			2021			2022		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Total Population* ('000)	16,966.2	15,481.2	32,447.4	17,000.5	15,575.8	32,576.3	17,039.8	15,658.3	32,698.1
Total Population Density (per sq. km)	:	:	98.0	:	:	99.0	:	:	99.0
Population by Age Group: (number & percentage)									
below 15 years ('000)	4,004.0 (23.6%)	3,761.9 (24.3%)	7,766.0 (24.0%)	3,961.1 (23.3%)	3,722.6 (23.9%)	7,683.7 (23.6%)	3,902.1 (22.9%)	3,679.7 (23.5%)	7,581.8 (23.2%)
15 - 64 years ('000)	11,893.3 (70.1%)	10,589.1 (68.4%)	22,482.4 (69.3%)	11,934.4 (70.2%)	10,669.4 (68.5%)	22,603.8 (69.4%)	11,996.0 (70.4%)	10,757.3 (68.7%)	22,753.3 (69.6%)
65 years & above ('000)	1,068.9 (6.3%)	1,130.1 (7.3%)	2,199.0 (6.8%)	1,105.0 (6.5%)	1,183.8 (7.6%)	2,288.8 (7.0%)	1,141.7 (6.7%)	1,221.3 (7.8%)	2,363.0 (7.2%)
Annual Population Growth Rate (%)	1.7	1.8	1.5	0.2	0.6	0.4	0.2	0.5	0.4
Crude Birth Rate (per 1,000 population)	14.4	14.7	14.5	13.3	13.7	13.5	12.8	13.1	12.9
Crude Death Rate (per 1,000 population)	5.7	4.4	5.1	7.5	6.2	6.9	6.9	5.7	6.3
Stillbirth Rate (per 1,000 births)	5.3	4.9	5.1	5.3	4.8	5.0	5.4	4.6	5.0
Perinatal Mortality Rate (per 1,000 births)	8.5	7.5	8.0	8.7	7.6	8.2	8.9	7.4	8.2
Neonatal Mortality Rate (per 1,000 live births)	4.3	3.5	3.9	4.4	3.8	4.1	4.7	3.7	4.2
Infant Mortality Rate (per 1,000 live births)	6.4	5.4	5.9	6.4	5.8	6.1	7.4	6.1	6.8
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)	7.9	6.7	7.3	7.7	7.0	7.4	9.4	7.8	8.6
Maternal Mortality Ratio (per 100,000 live births)	:	24.8	:	:	68.2	:	:	26.0	:
Life Expectancy at Birth (in years)	72.5	77.2	74.7	71.8	76.5	74.0	71.5 ^p	76.4 ^p	73.8 ^p
Distribution Live Births by Birthweight (%):									
Under 2.5 kg	10.7	12.9	11.7	11.0	13.4	12.2	11.9	14.1	12.9
2.5 kg & over	89.2	87.1	88.2	88.9	86.6	87.8	88.0	85.8	87.1
Unknown	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1

Notes:

*The annual current population estimates are based on the Population and Housing Census Malaysia, 2020

The added total may differ due to rounding

: Not applicable

^p Preliminary

Source: Department of Statistics, Malaysia

Financial Allocation, 2023

Total Allocation for Ministry of Health (MOH) (In Million) ¹	RM36,327
Operating	RM31,500
Development	RM4,827
Percentage of Total MOH Allocation to National Budget ¹	9.36%
Per Capita Income ² (current prices)	RM52,819

Sources:

¹Estimated Federal Budget 2023, Ministry of Finance

²Economic Outlook 2023, Ministry of Finance

National Health Accounts

Indicator	2019	2020	2021
Total Expenditure on Health (Public & Private) (In Million)	RM64,252	RM67,022	RM78,220
Total Expenditure on Health as a Percentage of GDP	4.25%	4.73%	5.06%
Public Expenditure as a Percentage of Total Expenditure on Health	53.15%	54.54%	57.85%

Sources:

MNHA Database 1997-2021, MNHA Section, Planning Division, MOH

Healthcare Facilities, 2022

Government

Ministry of Health		
	No.	Official Bed
Hospital and Special Medical Institution	148	45,167
Hospital	137	39,581
Special Medical Institution ¹	11	5,586
	No.	
Health Clinic	3,121	
Health Clinic	1,077	
Rural Clinic (Klinik Desa)	1,722	
Maternal & Child Health Clinic	83	
Community Clinic	239	

Notes:

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

Data as of 31st December 2022

Healthcare Facilities, 2022

Government (cont'd)

	No.	Dental Chair
Dental Clinics		
Standalone Dental Clinic	63	532
Dental Clinic in Health Clinic ¹	595	1,669
Dental Clinic in Hospital	77	416
Dental Clinic in Other Institutes	20	19
School Dental Clinic ²	911	587
Mobile Dental Clinic	40	60
Dental Mobile Teams		
Pre-School	138	1,827 ³
Primary and Secondary School	506	
Elderly and Special Children	4	

Notes:

¹ Includes Dental Clinics in Maternal & Child Health Clinics

² Includes Dental Clinics in primary and secondary school

³ Refers to portable chairs

Data as of 31st December 2022

Healthcare Facilities, 2022

Government (cont'd)

Mobile Clinic/ Team	No.	Team
Mobile Health Clinic Team	-	229
Flying Doctor Service Team	5 ¹	11
Mobile Clinic (Bus)	7	11
Mobile Clinic (Boat)	4	8

Community Dental Clinic	No.	Dental Chair
Community Dental Clinic (UTC)	22	42
Community Dental Clinic (RTC)	4	6
Dental Clinic in Community Clinic	1	1

Non Ministry of Health

	No.	Official Bed
Army Hospital	5	612
University Hospital	7	4,206

Notes:

¹ Refers to no. of helicopter

UTC - Urban Transformation Centre

RTC - Rural Transformation Centre

Data as of 31st December 2022

Healthcare Facilities, 2022

Private

Licensed	No.	Official Bed
Hospital	207	17,781
Maternity Home	17	52
Private Nursing Home	20	912
Hospice	13	39
Ambulatory Care Centre	165	420
Blood Bank	5	28 ¹
Haemodialysis Centre	669	8,209 ²
Community Mental Health Centre	1	0
Ambulatory Care Centre Incorporating Private Haemodialysis Centre	2	16/3/26

Registered	No.
Medical Clinic	9,830
Dental Clinic	3,522

Notes:

¹ Refers to number of blood storage tanks

² Refers to dialysis chairs

Source:

Medical Practice Division, MOH

Health Human Resources, 2022

	MOH	Non-MOH	Private	Total	Profession: Population ^c
Doctor				79,443	1 : 412
Annual Practicing Certificate ¹	44,763	5,785	16,501	67,049	
Full Registration (new) ¹	..	..	..	4,749	
House Officer ^{2, 3}	7,600	45	..	7,645	
Dental Practitioner ⁴	6,944	884	5,608	13,436	1 : 2,434
Pharmacist ⁵				19,778	1 : 1,653
Annual Certificate	11,213	369	6,747	18,329	
Full Registration (new)	..	..	..	1,449	
Nurse	71,434 ²	7,963 ⁸	37,719 ⁸	117,116	1 : 279
Community Nurse	22,068 ²	204 ⁸	310 ⁸	22,582	1 : 1,448
Assistant Medical Officer	19,467 ²	721 ⁹	3,920 ⁹	24,108	1 : 1,356
Pharmacy Assistant	4,400 ²	466	1,383	6,249	1 : 5,233
Dental Therapist ^a	2,881 ²	81 ¹⁰	5 ¹⁰	2,967	1 : 3,296
Dental Technologist ²	1,119	..	..	1,119	1 : 29,221
Dental Surgery Assistant ²	4,791	..	..	4,791	1 : 6,825

Notes:

.. Not obtained

^a Ratio to current population of under 18 years old (estimate)

^c Current population estimates

Data as of 31st December 2022

Sources:

¹ Malaysian Medical Council

² Human Resources Division, MOH

³ Ministry of Defence Malaysia (MINDEF)

⁴ Malaysian Dental Council

⁵ Pharmacy Board Malaysia

⁸ Malaysian Nursing Board

⁹ Malaysian Medical Assistant Board

¹⁰ Malaysian Dental Therapist Board

Health Human Resources, 2022

	MOH	Non-MOH	Private	Total	Profession: Population ^c
Optometrist ⁶				2,474	1 : 13,217
Annual Practicing Certificate	305	80	1,895	2,280	
New Registration	..	..	..	194	
Optician ⁶				2,482	1 : 13,174
Annual Practicing Certificate	..	..	2,443	2,443	
New Registration	..	..	..	39	
Environmental Health Officer ²	301	..	..	301	1 : 108,632
Assistant Environmental Health Officer ²	6,036	..	..	6,036	1 : 5,417
Medical Laboratory Technologist ²	7,825	..	..	7,825	1 : 4,179
Radiographer (Diagnostic & Therapist) ²	3,562	..	..	3,562	1 : 9,180
Occupational Therapist ²	1,442	..	..	1,442	1 : 22,676
Physiotherapist ²	1,643	..	..	1,643	1 : 19,901
Traditional & Complementary Medicine Practitioner ^{7, b}	..	..	4,076	4,076	1 : 8,022

Notes:

.. Not obtained

^b The current data reflects actual figures of practitioners (local & foreign) registered with the T&CM Council since 15th March 2021. Currently, all registered local and foreign T&CM practitioners are employed by the private sector, including practitioners in T&CM Units in Government Hospitals who are hired on contract basis from private companies

^c Current population estimates

Data as of 31st December 2022

Sources:

² Human Resources Division, MOH

⁶ Malaysian Optical Council

⁷ Traditional & Complementary Medicine Division, MOH

Admissions and Outpatient Attendances, 2022

Government

Ministry of Health

	2021	2022 ^P
Admission¹		
Hospital	2,258,022	2,412,629
Special Medical Institution	108,642	119,497
Day Care Attendance²		
Hospital	1,630,969	1,741,354
Special Medical Institution	66,682	72,914
		2022
Outpatient Attendance		
Hospital ³		17,749,587
Special Medical Institution ³		570,603
Public Health Facility ⁴		39,141,568
Dental Health Attendance		
Dental Clinic		10,747,005
		2022
Clinical Support Service Attendance		
	Manual Submission	MyHDW Submission
Medical Rehabilitation (Physiotherapy) ⁵	2,151,640	1,883,627
Medical Rehabilitation (Occupational Therapy) ⁶	1,017,531	866,889
Medical Rehabilitation (Hearing) ⁷	180,527	112,193
Medical Rehabilitation (Speech) ⁸	114,824	99,048
Medical Social Service ⁹	118,888	90,565
Dietetic ¹⁰	505,930	425,484

Admissions and Outpatient Attendances, 2022

Government (cont'd)

Ministry of Health

Maternal & Child Health Attendance	
Antenatal Attendance	5,687,860
Postnatal Attendance	440,667
Child Attendance	8,843,930

Non Ministry of Health Hospital

Admission	168,996
Outpatient Attendance	2,528,309

Private Hospital¹¹

Admission	956,291
Outpatient Attendance	3,788,146

Notes:

^p Preliminary

¹ Based on 99.95% submission rate

² Based on 94.47% submission rate

³ Based on 100.0% response rate

⁴ Based on 100.0% response rate

⁵ Based on 87.54% submission rate

⁶ Based on 85.20% submission rate

⁷ Based on 62.15% submission rate

⁸ Based on 86.26% submission rate

⁹ Based on 76.18% submission rate

¹⁰ Based on 84.10% submission rate

¹¹ Based on 76.71% response rate. Including Private Hospitals, Maternity Homes, Nursing Homes and Hospice

Ten Principal Causes of Hospitalisation in MOH Hospital, 2022

1	Pregnancy, childbirth and the puerperium	19.71%
2	Diseases of the respiratory system	13.43%
3	Certain conditions originating in the perinatal period	9.19%
4	Diseases of the circulatory system	8.65%
5	Injury, poisoning and certain other consequences of external causes	6.53%
6	Certain infectious and parasitic diseases	6.34%
7	Codes for special purposes ¹	5.14%
8	Neoplasms	4.84%
9	Diseases of the digestive system	4.57%
10	Diseases of the genitourinary system	3.76%

Ten Principal Causes of Deaths² in MOH Hospital, 2022

1	Diseases of the circulatory system	20.79%
2	Diseases of the respiratory system	20.55%
3	Certain infectious and parasitic diseases	11.61%
4	Neoplasms	9.29%
5	Diseases of the genitourinary system	5.38%
6	Codes for special purposes ¹	4.76%
7	Endocrine, nutritional and metabolic diseases	4.38%
8	Diseases of the digestive system	4.25%
9	External causes of morbidity and mortality	3.55%
10	Diseases of the nervous system	1.79%

Notes:

¹ Refers to severe acute respiratory syndrome (SARS), COVID-19 and bacterial agents resistant to antibiotics

² Based on underlying causes of deaths

Ten Principal Causes of Hospitalisation in Private Hospital, 2022

1	Diseases of the respiratory system	16.59%
2	Certain infectious and parasitic diseases	12.00%
3	Diseases of the digestive system	10.34%
4	Diseases of the circulatory system	8.06%
5	Injury, poisoning and certain other consequences of external causes	7.32%
6	Pregnancy, childbirth and the puerperium	7.30%
7	Diseases of the genitourinary system	6.89%
8	Diseases of the musculoskeletal system and connective tissue	6.68%
9	Factors influencing health status and contact with health services	4.84%
10	Neoplasms	4.33%

Ten Principal Causes of Death in Private Hospital, 2022

1	Neoplasms	26.44%
2	Diseases of the circulatory system	23.09%
3	Certain infectious and parasitic diseases	16.67%
4	Diseases of the respiratory system	15.44%
5	Diseases of the digestive system	4.32%
6	Diseases of the genitourinary system	4.20%
7	Codes for special purposes ¹	2.22%
8	Injury, poisoning and certain other consequences of external causes	1.34%
9	Endocrine, nutritional and metabolic diseases	1.28%
10	Certain conditions originating in the perinatal period	0.93%

Note:

¹ Refers to severe acute respiratory syndrome (SARS), COVID-19 and bacterial agents resistant to antibiotics

Ten Principal Causes of Hospitalisation in MOH & Private Hospital, 2022

1	Pregnancy, childbirth and the puerperium	16.27%
2	Diseases of the respiratory system	14.25%
3	Diseases of the circulatory system	8.45%
4	Certain infectious and parasitic diseases	7.85%
5	Certain conditions originating in the perinatal period	7.24%
6	Injury, poisoning and certain other consequences of external causes	6.71%
7	Diseases of the digestive system	6.12%
8	Neoplasms	4.67%
9	Diseases of the genitourinary system	4.59%
10	Codes for special purposes ¹	3.97%

Note:

¹ Refers to severe acute respiratory syndrome (SARS), COVID-19 and bacterial agents resistant to antibiotics

Incidence Rate and Mortality Rate of Communicable Diseases, 2022 (per 100,000 population)

Communicable Diseases	Incidence Rate	Mortality Rate
Food and Water Borne Diseases		
Cholera	0.02	0
Dysentery	0.78	0
Food Poisoning	43.77	0.01
Typhoid And Paratyphoid	0.28	0.01
Vaccine Preventable Disease		
Diphtheria	0.03	0.01
Acute Poliomyelitis	0	0
Others Tetanus	0.06	0.01
Neonatal Tetanus	0.04	0
Pertussis	0.31	0.01
Measles	0.64	0
Viral Hepatitis		
Hepatitis A	0.19	0
Hepatitis B	16.02	0.33
Hepatitis C	14.17	0.29
Other Specified Viral Hepatitis	0.06	0.01
Vector Borne Diseases		
Chikungunya	2.49	0
Dengue Fever	202.09	0
Dengue Haemorrhagic Fever	0.35	0.17
Malaria	8.60	0.03
Plague	0	0
Relapsing Fever	0	0
Typhus	0.04	0
Yellow Fever	0	0
Zika Virus Infections	0	0
Filariasis	0.82	0

Incidence Rate and Mortality Rate of Communicable Diseases, 2022 (per 100,000 population)

Communicable Diseases	Incidence Rate	Mortality Rate
Tuberculosis/Leprosy		
Tuberculosis	77.76	7.88
Leprosy	0.51	0
Sexually Transmitted Infections		
AIDS ¹	3.71	2.16
HIV ¹	9.73	0.74
Chancroid	0	0
Gonorrhea	5.57	0
Syphilis	14.30	0
Zoonosis		
Avian Influenza	0	0
Ebola	0	0
HFMD	458.10	0.00
Leptospirosis	9.12	0.13
Rabies	0.05	0.04
Viral Encephalitis		
Viral Encephalitis	0.09	0.01
Nipah	0	0
Others Viral Encephalitis	0.02	0
Japanese Encephalitis	0.07	0.01
Surveillance		
Monkeypox	0	0
MERS-Cov	0	0
COVID-19	6,937.50	16.27

Note:

¹ Notification rate

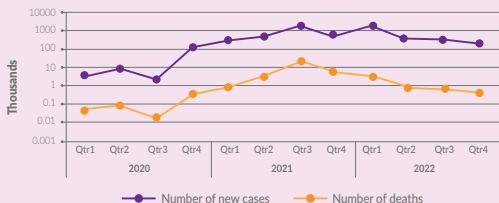
0.00 Less than half the smallest unit shown. For example, less than 0.005 per cent

Source:

Disease Control Division, MOH

COVID-19 FACTS, 2022

Number of New Cases and Deaths due to COVID-19, 2020 to 2022



Vaccination Coverage by Age Group, 2021 to 2022

Child (5-11 years)

1,761,277
48.6%



1,529,030
42.2%



2,452
0.1%



6
0.0%



Adolescent (12-17 years)

2,911,928
91.5%



2,837,349
89.1%



51,199
1.6%



357
0.0%



Adult (18-59 years)

19,335,358
97.5%



19,169,327
96.7%



13,341,339
67.3%



415,794
2.1%



Elderly (60+ years)

3,490,616
96.1%



3,467,063
95.4%



2,632,216
72.5%



202,308
5.6%



Sources:

- <https://github.com/MoH-Malaysia/covid19-public>, data as of 31st December 2022
- Current Population Estimates, 2022, DOSM

Childhood Immunisation Coverage, 2022

B.C.G. Immunisation Coverage of Infants ¹	97.70%
DPT - Hib Immunisation Coverage of Infants (3 rd Dose) ^{2, p}	97.17%
Polio Immunisation Coverage of Infants (3 rd Dose) ^{2, p}	97.17%
MMR Immunisation Coverage of Children Aged 1 to < 2 years	96.28%
Hepatitis B Immunisation Coverage of Infants (4 th Dose - Completed Dose) ^{2, p}	97.13%

Notes:

¹ Tuberculosis Information System (TBIS), Disease Control Division, MOH

² Denominator: Live births (DOSM, 2021)

^p Preliminary

Environmental Health for Rural Area¹, 2022

Percentage of Houses Served with Safe Water Supply	96.76%
Percentage of Houses Served with Sanitary Latrines	96.11%
Percentage of Houses Served with Sullage Disposal	69.82%
Percentage of Houses Served with Solid Waste Disposal	73.56%

Note:

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

Source:

Engineering Services Division, MOH

HEALTH WHITE PAPER*

Pillar **1**

TRANSFORMING HEALTHCARE SERVICE DELIVERY

- A. Prioritising primary healthcare
- B. Optimising hospital care services
- C. Increasing effective public-private partnerships
- D. Harnessing digital technologies
- E. Ensuring equity in healthcare delivery

Pillar **2**

ADVANCING HEALTH PROMOTION AND DISEASE PREVENTION

- A. Strengthening public health functions
- B. Improving inter-sectoral coordination and collaboration for health
- C. Incentivising pro-health practices and behaviours

Pillar **3**

ENSURING SUSTAINABLE AND EQUITABLE HEALTH FINANCING

- A. Increasing investments for health
- B. Ensuring population receive comprehensive services that are affordable
- C. Ensuring effective and efficient healthcare spending

Pillar **4**

STRENGTHENING THE HEALTH SYSTEM'S FOUNDATIONS AND GOVERNANCE

- A. Restructuring MOH's role
- B. Strengthening policies, legislation and regulations
- C. Fortifying the health workforce
- D. Stimulating research, innovation, and evidence based approaches

Note:

* Information as of 30 September 2023