

MINISTRY OF HEALTH MALAYSIA

HEALTH FACTS 2022



Reference Data for Year 2021

Health Informatics Centre
Planning Division
MOH/S/RAN/227.22(PT)
(OCTOBER 2022)



Land Area, Population and Vital Statistics

Land Area: Malaysia - 330,155.28 sq. km

Source: Department of Survey & Mapping, Malaysia

Population and Vital Statistics	2019			2020			2021		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Total Population ^a ('000)	16,764.9	15,758.2	32,523.0	16,966.2	15,481.2	32,447.4	17,000.5	15,575.8	32,576.3
Total Population Density (per sq. km)	:	:	98.0	:	:	98.0	:	:	99.0
Population by Age Group: (number & percentage)									
below 15 years ('000)	3,948.3 (23.6%)	3,704.2 (23.5%)	7,652.5 (23.5%)	4,006.1 (23.6%)	3,765.7 (24.3%)	7,771.9 (24.0%)	3,960.7 (23.3%)	3,724.5 (23.9%)	7,685.1 (23.6%)
15 - 64 years ('000)	11,758.7 (70.1%)	10,921.8 (69.3%)	22,680.5 (69.8%)	11,893.3 (70.1%)	10,590.8 (68.4%)	22,484.3 (69.3%)	11,928.5 (70.2%)	10,672.7 (68.5%)	22,601.2 (69.4%)
65 years & above ('000)	1,057.9 (6.3%)	1,132.1 (7.2%)	2,190.0 (6.7%)	1,066.8 (6.3%)	1,124.5 (7.3%)	2,191.2 (6.8%)	1,111.3 (6.5%)	1,178.8 (7.6%)	2,290.2 (7.0%)
Annual Population Growth Rate (%)	0.3	0.6	0.4	0.0	0.0	0.0	0.2	0.6	0.4
Crude Birth Rate (per 1,000 population)	15.1	15.0	15.1	14.4	14.7	14.5	13.3	13.7	13.5
Crude Death Rate (per 1,000 population)	6.0	4.7	5.4	5.7	4.5	5.1	7.5	6.2	6.9
Stillbirth Rate (per 1,000 births)	5.6	5.1	5.3	5.3	4.9	5.1	5.3	4.8	5.0
Perinatal Mortality Rate (per 1,000 births)	8.8	7.9	8.4	8.5	7.5	8.0	8.7	7.6	8.2
Neonatal Mortality Rate (per 1,000 live births)	4.3	3.8	4.1	4.3	3.5	3.9	4.4	3.8	4.1
Infant Mortality Rate (per 1,000 live births)	7.0	6.1	6.6	6.4	5.4	5.9	6.4	5.8	6.1
Toddler Mortality Rate (per 1,000 population aged 1-4 years)	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Under-5 Mortality Rate (per 1,000 live births)	8.7	7.5	8.1	7.9	6.7	7.0	7.7	7.0	7.4
Maternal Mortality Ratio (per 100,000 live births)	:	21.0	:	:	24.8	:	:	68.2	:
Life Expectancy at Birth (in years)	72.5	77.4	74.8	72.5	77.2	74.7	72.3 ^P	77.0 ^P	74.5 ^P
Distribution Live Births by Birthweight (%):									
Under 2.5 kg	11.0	13.2	12.1	10.7	12.9	11.7	11.0	13.4	12.2
2.5 kg & over	88.9	86.7	87.8	89.2	87.1	88.2	88.9	86.6	87.8
Unknown	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0

Notes:

^a 2019: Current population estimates based on Population and Housing Census 2010 data
2020 and 2021: Current population estimates based on Population and Housing Census 2020 data
The added total may differ due to rounding

^P Preliminary
: Not applicable

Source: Department of Statistics, Malaysia, DOSM

Financial Allocation, 2022

Total Allocation for Ministry of Health (MOH) (In Million)	RM32,410
Operating	RM28,030
Development	RM4,380
Percentage of Total MOH Allocation to National Budget	10.42%
Per Capita Income ¹ (current prices)	RM48,187

Sources: *Estimated Federal Budget 2022, Ministry of Finance*

¹*Economic Outlook 2022, Ministry of Finance*

National Health Accounts

Indicator	2019	2020
Total Expenditure on Health (Public & Private) (In Million)	RM64,241	RM67,022
Total Expenditure on Health as a Percentage of GDP	4.25%	4.73%
Public Expenditure as a Percentage of Total Expenditure on Health	53.25%	54.63%

Source: *Database MNHA 1997-2020, MNHA Section, Planning Division, MOH*

Healthcare Facilities, 2021

Government

- Ministry of Health

	No.	Official Bed
Hospital and Special Medical Institution	146	44,849
Hospital	135	39,263
Special Medical Institution ¹	11	5,586
Low Risk COVID-19 Quarantine and Treatment Centre (PKRC) ²	211	52,462

	No.	Team
Health Clinic	2,892	-
Health Clinic	1,057	-
Rural Clinic (Klinik Desa)	1,749	-
Maternal & Child Health Clinic	86	-
Mobile Health Clinic	-	229
Flying Doctor Service	5 ³	11

Notes:

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

² Source: Medical Development Division, MOH

³ No. of Helicopter

Data as of 31st December 2021

Healthcare Facilities, 2021

Government (cont'd)

- Ministry of Health

	No.	Dental Chair
Dental Clinic		
Standalone Dental Clinic	63	530
Dental Clinic in Health Clinic ¹	592	1,617
Dental Clinic in Hospital	75	412
Dental Clinic in Other Institutes	20	19
School Dental Clinic ²	911	656
Mobile Dental Clinic ²	34	53
Dental Mobile Team		
Pre-School	137	1,768 ³
Primary and Secondary School	491	
Elderly and Special Children	4	

Notes:

¹ Include Dental Clinics in Maternal & Child Health Clinics

² Include Dental Clinics in primary and secondary school

³ Refers to portable chairs

Data as of 31st December 2021

Healthcare Facilities, 2021

Government (cont'd)

- Ministry of Health

	No.	Team
Community Clinic		
Community Clinic	255	-
Community Mobile Clinic (Bus)	7	11
Community Mobile Clinic (Boat)	4	8

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

- Non Ministry of Health

	No.	Official Bed
Hospital ¹	12	4,932

Notes:

¹ Refers to Army Hospitals (5) and University Hospitals (7)

UTC - Urban Transformation Centre

RTC - Rural Transformation Centre

Data as of 31st December 2021

Healthcare Facilities, 2021

Private

- Licensed

	No.	Official Bed
Hospital	209	17,628
Maternity Home	17	51
Nursing Home	21	927
Hospice	9	33
Ambulatory Care Centre	153	384
Blood Bank	5	28 ¹
Haemodialysis Centre	604	7,532
Community Mental Health Centre	1	-
Combined Facilities ²	2	19/26

- Registered

Medical Clinic	8,419	-
Dental Clinic	3,053	-

Notes:

¹ Refers to tanks

² Combination of Ambulatory Care and Haemodialysis Centre provides 19 beds and 26 dialysis chairs

Data as of 31st December 2021

Source: Medical Practice Division, MOH

Health Human Resources, 2021

	MOH	Non-MOH	Private	Total	Profession: Population ^e
Doctor ^a				77,755	1 : 420
Annual Practicing Certificate ¹	40,803	5,537	16,196	62,536	
Full Registration ¹ (new)	..	..	..	5,641	
House Officer ^{2,3}	9,578		..	9,578	
Dentist ⁴	6,917	868	4,789	12,574	1 : 2,597
Pharmacist ⁵				18,575	1 : 1,758
Annual Certificate	11,092	360	6,032	17,484	
Fully Registration (new)	..	..	..	1,091	
Nurse	70,797 ³	7,629 ⁶	36,804 ⁶	115,230	1 : 283
Community Nurse	20,308 ³	197 ⁶	311 ⁶	20,816	1 : 1,569
Assistant Medical Officer	18,438 ³	704 ⁷	4,187 ⁷	23,329	1 : 1,400
Pharmacy Assistant	4,275 ³	431	1,597	6,303	1 : 5,181
Dental Therapist ^{3,b,c}	2,849	..	..	2,849	1 : 3,404
Dental Technologist ³	1,024	..	..	1,024	1 : 31,890
Dental Surgery Assistant ³	4,556	..	..	4,556	1 : 7,168

Health Human Resources, 2021

	MOH	Non-MOH	Private	Total	Profession: Population ^e
Optometrist ⁸				2,356	1 : 13,860
Annual Practicing Certificate	305	69	1,740	2,114	
New Registration	..	..	..	242	
Optician ⁸				2,491	1 : 13,109
<i>Annual Practicing Certificate</i>	..	..	2,457	2,457	
<i>New Registration</i>	..	..	..	34	
Environmental Health Officer ³	272	..	..	272	1 : 120,056
Assistant Environmental Health Officer ³	5,683	..	..	5,683	1 : 5,746
Medical Laboratory Technologist ³	7,675	..	..	7,675	1 : 4,255
Radiographers (Diagnostic & Therapists) ³	3,244	..	..	3,244	1 : 10,066
Occupational Therapists ³	1,303	..	..	1,303	1 : 25,062
Physiotherapist ³	1,536	..	..	1,536	1 : 21,260
Traditional & Complementary Medicine Practitioner ^{9,d}	..	..	2,251	2,251	1 : 14,507

Health Human Resources, 2021

Notes:

-- Not obtained

^a Includes House Officers

^b Formally known as Dental Nurses

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

*^d Refers to Registration of local practitioners in recognised practice areas that commenced on 15 March 2021 by zones. As of 31 December 2021, the zones involved are the Central, Northern, Southern and Eastern zone, while registration for the Sabah and Sarawak zones commenced on 15 March 2022. Registration of foreign practitioners commenced on 15 March 2021 regardless of zone. *Note: The current data reflects actual figures of practitioners (local & foreign) registered with the T&CM Council, and not the number of practitioners that had voluntarily registered with the MOH up to 1 August 2016 as reported previously*

^e Current population estimates

Data as of 31st December 2021

Sources:

¹ Malaysian Medical Council

² Ministry of Defence Malaysia (MinDef)

³ Human Resources Division, MOH

⁴ Malaysian Dental Council

⁵ Pharmacy Board Malaysia

⁶ Malaysian Nursing Board

⁷ Malaysian Medical Assistant Board

⁸ Malaysian Optical Council

⁹ Traditional & Complementary Medicine Division, MOH

Admissions and Attendances, 2021

Government

- Ministry of Health

	2020	2021 ^P
Admission¹		
Hospital	2,336,400	2,258,022
Special Medical Institution	104,491	108,642
Day Care Attendance²		
Hospital	1,690,302	1,609,041
Special Medical Institution	74,093	65,673
		2021
Outpatient Attendance		
Hospital ³		14,505,623
Special Medical Institution ³		443,156
Public Health Facility ⁴		33,849,826
Dental Health Attendance		
Dental Clinic		4,820,622
		2021
	Manual Submission	MyHDW Submission
Clinical Support Service Attendance		
Medical Rehabilitation (Physiotherapy) ⁵	1,725,727	1,407,224
Medical Rehabilitation (Occupational Therapy) ⁶	811,260	653,587
Medical Rehabilitation (Hearing) ⁷	146,111	110,739
Medical Rehabilitation (Speech) ⁸	93,146	79,553
Dietetic ⁹	451,253	307,114
Medical Social Service ¹⁰	100,655	87,808

Admissions and Attendances, 2021

Government (cont'd)

- Ministry of Health

 - Maternal & Child Health Attendance

Antenatal Attendance	5,821,741
Postnatal Attendance	441,093
Child Attendance	8,499,135

- Non Ministry of Health Hospital

Admission	146,113
Outpatient Attendance	2,269,298

- Low Risk COVID-19 Quarantine and Treatment Centre (PKRC)¹¹

Admission	578,144
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Private Hospital¹²

Admission	774,197
Outpatient Attendance	3,285,071

Notes:

^p Preliminary

¹ Based on 98.51% submission rate

² Based on 92.44% response rate

³ Based on 100.0% response rate

⁴ Based on 100.0% submission rate

⁵ Based on 81.54% submission rate

⁶ Based on 80.56% submission rate

⁷ Based on 75.79% submission rate

⁸ Based on 85.41% submission rate

⁹ Based on 68.06% submission rate

¹⁰ Based on 87.24% submission rate

¹¹ Source : Medical Development Division, MOH

¹² Based on 80.30% response rate. Include Private Hospitals, Private Maternity Homes, Private Nursing Homes and Private Hospice

Ten Principal Causes of Hospitalisation in MOH Hospital, 2021

1	Pregnancy, childbirth and the puerperium	19.63%
2	Codes for special purposes ¹	19.17%
3	Certain conditions originating in the perinatal period	9.73%
4	Diseases of the circulatory system	7.73%
5	Diseases of the respiratory system	7.36%
6	Injury, poisoning and certain other consequences of external causes	5.55%
7	Neoplasms	4.41%
8	Certain infectious and parasitic diseases	4.08%
9	Diseases of the digestive system	3.80%
10	Diseases of the genitourinary system	3.35%

Ten Principal Causes of Deaths² in MOH Hospital, 2021

1	Diseases of the respiratory system	24.53%
2	Diseases of the circulatory system	17.67%
3	Codes for special purposes ¹	16.31%
4	Certain infectious and parasitic diseases	10.88%
5	Neoplasms	7.00%
6	Diseases of the genitourinary system	4.91%
7	Endocrine, nutritional and metabolic diseases	4.37%
8	Diseases of the digestive system	3.58%
9	External causes of morbidity and mortality	2.84%
10	Certain conditions originating in the perinatal period	1.53%

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, 2021

1	Diseases of the digestive system	12.09%
2	Pregnancy, childbirth and the puerperium	10.61%
3	Diseases of the circulatory system	9.49%
4	Diseases of the genitourinary system	8.41%
5	Injury, poisoning and certain other consequences of external causes	7.90%
6	Diseases of the respiratory system	7.61%
7	Certain infectious and parasitic diseases	7.44%
8	Diseases of the musculoskeletal system and connective tissue	7.11%
9	Factors influencing health status and contact with health services	6.24%
10	Neoplasms	5.58%

Ten Principal Causes of Deaths in Private Hospital, 2021

1	Neoplasms	28.03%
2	Diseases of the circulatory system	21.24%
3	Diseases of the respiratory system	14.69%
4	Certain infectious and parasitic diseases	12.41%
5	Codes for special purposes ¹	6.31%
6	Diseases of the genitourinary system	3.93%
7	Congenital malformations, deformations and chromosomal abnormalities	3.75%
8	Diseases of the digestive system	3.46%
9	Diseases of the nervous system	1.13%
10	Endocrine, nutritional and metabolic diseases	1.05%

Notes:

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, 2021

1	Pregnancy, childbirth and the puerperium	16.95%
2	Codes for special purpose ¹	14.41%
3	Diseases of the circulatory system	7.93%
4	Certain conditions originating in the perinatal period	7.73%
5	Diseases of the respiratory system	7.22%
6	Injury, poisoning and certain other consequences of external causes	5.95%
7	Diseases of the digestive system	5.64%
8	Certain infectious and parasitic diseases	4.75%
9	Neoplasms	4.56%
10	Diseases of the genitourinary system	4.44%

Notes:

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

Incidence Rate and Mortality Rate of Communicable Diseases, 2021 (per 100,000 population)

Communicable Diseases	Incidence Rate	Mortality Rate
Food and Water Borne Diseases		
Cholera	0.20	0
Dysentery	0.61	0
Food Poisoning	18.40	0.00
Hepatitis A	0.07	0
Typhoid And Paratyphi	0.31	0.00
Vaccine Preventable Disease		
Diphtheria	0.02	0.01
Acute Poliomyelitis	0	0
Others Tetanus	0.05	0.00
Neonatal Tetanus	0.05	0.01
Pertussis	0.03	0.01
Hepatitis B	11.58	0.17
Other Specified Viral Hepatitis	0.02	0
Measles	0.39	0
Vector Borne Diseases		
Chikungunya	4.39	0
Dengue Fever	80.54	0
Dengue Haemorrhagic	0.20	0.06
Japanese Encephalitis	0.10	0.02
Malaria	11.29	0.04
Plague	0	0
Relapsing Fever	0	0
Typhus	0.03	0
Yellow Fever	0	0
Zika Virus Infections	0	0
Filariasis	0.82	0

Incidence Rate and Mortality Rate of Communicable Diseases, 2021 (cont'd)

(per 100,000 population)

Communicable Diseases	Incidence Rate	Mortality Rate
Tuberculosis / Leprosy		
Tuberculosis	66.53	7.01
Leprosy	0.41	0.00
Sexually Transmitted Infections		
AIDS ¹	2.69	1.17
HIV ¹	8.45	0.42
Chancroid	0.00	0
Gonorrhoea	4.47	0
Syphilis	10.60	0.06
Hepatitis C	8.59	0.16
Zoonosis		
Avian Influenza	0	0
Ebola	0	0
HFMD	12.98	0
Leptospirosis	5.40	0.08
Rabies	0.03	0.03
Viral Encephalitis	0	0
Nipah	0	0
Others Viral Encephalitis	0	0
Surveillance		
Mers-Cov	0	0
COVID-19	8,099.97	94.98

Notes:

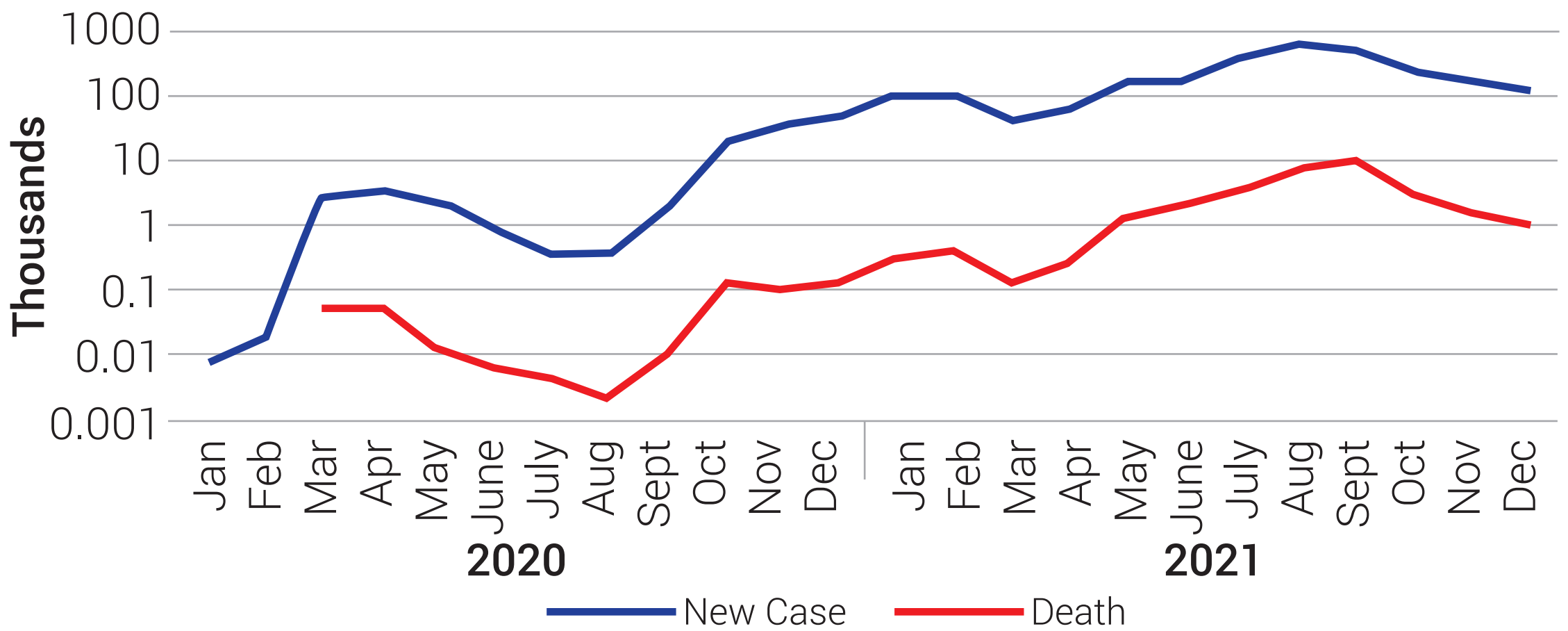
¹ Notification rate

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

Source: Disease Control Division, MOH

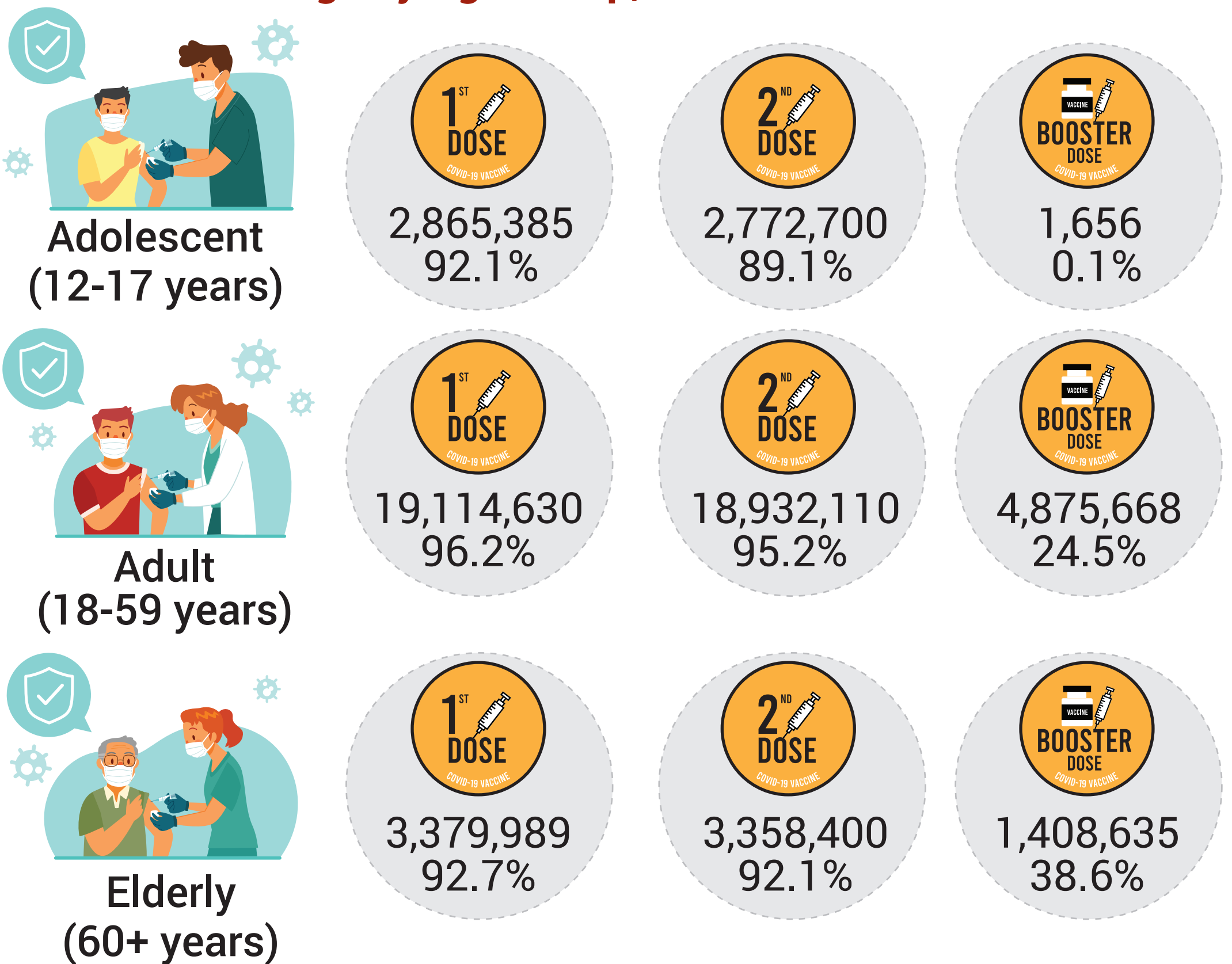
COVID-19 Facts, 2021

New Case and Death due to COVID-19, 2020 to 2021



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

Vaccination Coverage by Age Group, 2021



Sources: 1. <https://github.com/MOH-Malaysia/covid19-public>, National CPRC, MOH
 2. Current population estimates, 2021, DOSM

Childhood Immunisation Coverage, 2021

BCG Immunisation Coverage of Infants ¹	98.80%
DPT - HIB Immunisation Coverage of Infants (3 rd Dose) ^{2,p}	94.24%
Polio Immunisation Coverage of Infants (3 rd Dose) ^{2,p}	94.24%
MMR Immunisation Coverage of Children Aged 1 to < 2 years	99.53%
Hepatitis B Immunisation Coverage of Infants (4 th Dose - Completed Dose) ^{2,p}	92.96%
HPV Immunisation Coverage of Girls 13 years (2 nd Dose) ³	91.28%

Notes:

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

² Denominator: Live births (DOSM, 2020)

³ Denominator: Female population aged 13 years (DOSM, 2021)

^p Preliminary

Environmental Health for Rural Area¹, 2021

Percentage of houses served with safe water supply	97.04%
Percentage of houses served with sanitary latrines	96.38%
Percentage of houses served with sullage disposal	67.79%
Percentage of houses served with solid waste disposal	73.13%

Note:

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