

POPULATION PROFILE

In 2020, Singapore had an estimated population of 5.69 million, with a resident population of 4.04 million. The female- to-male ratio in the resident population was 1.04. The ethnic distribution in the resident population showed a Chinese majority of 74.3%, followed by Malays and Indians at 13.4% and 9.1% respectively.

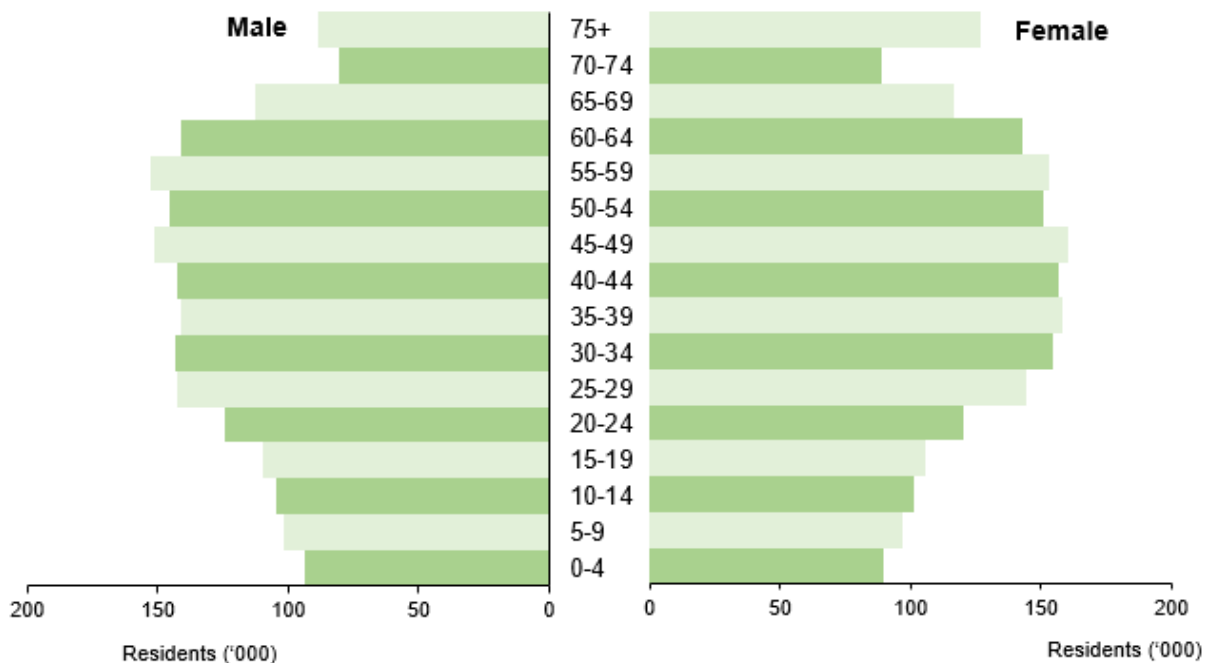
The ageing pattern of Singapore’s population is shown in the age pyramid below. The proportion of residents aged 15 to 64 years remained stabilise at 70% in 2020 while the proportion of children under 15 years has steadily declined from 23% in 1990 to 15% in 2020. Currently 15% of Singapore residents are aged 65 years and above, compared to 6% in 1990.

Demographic profile (mid-year estimates), 2020

Total population	5.69 million
Resident population	4.04 million
Sex ratio (female to male)	1.05
Ethnic distribution	(%)
Chinese	74.3
Malay	13.5
Indian	9.0
Others	3.2

(Source: Singapore Department of Statistics)

Age distribution of resident population, 2020



(Source: Singapore Department of Statistics)

SUMMARY OF COMMUNICABLE DISEASES NOTIFICATIONS

The annual statistics on infectious disease notifications and deaths in 2019 and 2020 and a summary of all the infectious disease notifications received by the Ministry of Health in Singapore over the 20-year period from 2001 to 2020 (by the number of notifications and by incidence rate per 100,000 population) have been tabulated in the following pages for readers' easy reference.

Infectious disease notifications and deaths in 2019

Diseases	No. of notified cases	No. of deaths+	Crude incidence rate*	Mortality rate*
Air/Droplet-borne Diseases				
Measles	152	0	2.7	0
Meningococcal Infection	8	0	0.1	0
Mumps	422	0	7.4	0
Rubella	2	0	0.0	0
Vector-borne Diseases				
Chikungunya Fever	58	0	1.0	0
Dengue Fever/Dengue Haemorrhagic Fever	15,979	21	280.2	0.4
Malaria	33	0	0.6	0
Zika virus infection	14	0	0.2	0
Food-borne Diseases				
Campylobacteriosis	473	0	8.3	0
Cholera	2	0	0.0	0
Hepatitis A	66	0	1.2	0
Hepatitis E	40	0	0.7	0
Paratyphoid	12	0	0.2	0
Salmonellosis	1,894	0	33.2	0
Typhoid	73	0	1.3	0
Blood-borne and Sexually Transmitted Diseases				
Hepatitis B	36	0	0.6	0
Hepatitis C	19	0	0.3	0
HIV/AIDS**	323	63	8.8	1.6
STIs	14,431	0	253.0	0
Other Diseases				
Tuberculosis	1,978	19**	34.7	0.5
Leprosy	4	0	0.1	0
Legionellosis	23	0	0.4	0
Melioidosis	45	0	0.8	0

+Source: Registry of Births & Deaths.

*Rates per 100,000 population, based on estimated mid-year total population, 2019.

(Source: Singapore Department of Statistics)

** Referred to Singaporeans/PR cases.

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Infectious disease notifications and deaths in 2020

Diseases	No. of notified cases	No. of deaths+	Crude incidence rate*	Mortality rate*
Air/Droplet-borne Diseases				
Measles	12	0	0.2	0
Meningococcal Infection	7	0	0.1	0
Mumps	285	0	5.0	0
Rubella	1	0	0.0	0
Vector-borne Diseases				
Chikungunya Fever	12	0	0.2	0
Dengue Fever/Dengue Haemorrhagic Fever	35,210	32	619.3	0.6
Malaria	13	0	0.2	0
Zika virus infection	1	0	0.0	0
Food-borne Diseases				
Campylobacteriosis	485	0	8.5	0
Cholera	0	0	0.0	0
Hepatitis A	26	0	0.5	0
Hepatitis E	53	0	0.9	0
Paratyphoid	10	0	0.2	0
Salmonellosis	1,447	0	25.4	0
Typhoid	30	0	0.5	0
Blood-borne and Sexually Transmitted Diseases				
Hepatitis B	44	0	0.8	0
Hepatitis C	18	0	0.3	0
HIV/AIDS**	261	49	6.5	1.2
STIs	10,908	0	191.8	0
Other Diseases				
Tuberculosis	2,225	19**	39.1	0.5
Leprosy	3	0	0.1	0
Legionellosis	16	0	0.3	0
Melioidosis	38	0	0.7	0

+Source: Registry of Births & Deaths.

*Rates per 100,000 population, based on estimated mid-year total population, 2020.

(Source: Singapore Department of Statistics)

** Referred to Singaporeans/PR cases.

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INFECTIOUS DISEASE NOTIFICATIONS IN SINGAPORE, 2001-2020

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Number of Notifications																				
<u>Air/Droplet-Borne Diseases</u>																				
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Haemophilus influenzae</i> type b	5	0	3	2	5	4	1	1	4	5	2	1	10	6	3	2	8	5	4	1
Hand, Foot and Mouth Disease	5187	16228	5603	6411	15257	15282	20003	29686	17278	30878	20687	37125	31741	22171	28216	42154	33663	40217	-	-
Measles	61	57	33	96	33	28	15	18	13	49	148	38	46	142	42	136	70	34	152	12
Meningococcal infection	4	13	11	7	5	10	5	6	5	7	6	0	3	9	6	5	12	9	8	7
Mumps	1399	1090	878	1003	1004	844	780	801	631	452	501	521	495	478	473	540	524	474	422	285
Pertussis	-	-	-	0	0	3	38	33	13	8	29	24	17	21	57	85	79	108	62	10
Pneumococcal disease (Invasive)	-	-	-	-	-	-	-	-	157	166	148	163	167	147	139	131	156	134	134	43
Rubella	242	152	88	141	139	90	83	180	178	158	110	64	48	17	15	12	15	10	2	1
Varicella	18220	27124	15265	20083	24248	24026	30548	-	-	-	-	-	-	-	-	-	-	-	-	-
<u>Vector-Borne Diseases</u>																				
Chikungunya Fever	-	-	-	-	-	-	-	718	341	26	12	22	1059	182	42	36	29	15	58	12
Dengue fever/Dengue haemorrhagic fever	2372	3945	4788	9459	14209	3127	8826	7031	4497	5363	5330	4632	22170	18326	11294	13085	2767	3283	15979	35210
Malaria	229	175	118	152	166	181	155	152	172	190	149	143	111	62	47	31	39	35	33	13
Zika virus infection	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	458	67	1	14	1
<u>Food-Borne Diseases</u>																				
Campylobacteriosis	105	50	144	131	241	236	170	177	261	320	372	443	397	435	420	442	495	427	473	485
Cholera	8	2	2	11	1	0	7	1	4	4	2	2	2	2	3	2	3	2	2	0
<u>Enteric fever</u>																				
Typhoid	82	49	32	52	69	60	67	84	69	82	71	84	84	58	49	51	65	43	73	30
Paratyphoid	34	25	9	32	26	23	33	29	28	38	33	57	23	19	27	19	16	16	12	10
Hepatitis A	60	236	55	67	98	146	88	107	89	68	66	108	88	73	50	48	81	75	66	26
Hepatitis E	3	24	17	24	36	31	35	54	90	112	97	104	55	68	59	74	76	52	40	53
Salmonellosis	198	129	192	345	296	380	309	719	1144	1480	1374	1499	1735	1920	1988	2212	2010	1620	1894	1447
<u>Blood-Borne & Sexually Transmitted Diseases</u>																				
Hepatitis B	80	63	64	98	83	96	79	87	69	65	73	58	57	48	52	47	38	52	36	44
Hepatitis C	-	-	-	3	26	35	17	13	5	6	3	2	2	5	46	24	22	14	19	18
HIV/AIDS*	237	234	242	311	317	359	423	456	463	441	461	469	454	456	455	408	434	313	323	261
Sexually Transmitted Infections	6686	6891	8173	10697	11048	10989	11523	12280	11381	10742	11159	10869	10347	10183	10318	10767	11315	10316	14431	10908
<u>Other Diseases</u>																				
Legionellosis	52	40	46	17	21	19	16	25	22	25	21	31	24	37	17	12	19	22	23	16
Leprosy	14	11	11	14	13	12	12	10	8	13	16	15	12	6	3	7	6	6	4	3

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Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Melioidosis	59	34	44	98	78	62	61	62	40	60	34	31	36	34	42	58	52	34	45	38
Tuberculosis **	1474	1702	1684	1578	1586	1581	1608	1951	1966	2028	2126	2203	2028	2018	2000	2310	2191	2182	1978	2225

* Refers to Singaporeans/PR cases

** Refers to Singaporeans/PR cases & long staying foreigners from year 2002

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INFECTIOUS DISEASE NOTIFICATIONS IN SINGAPORE, 2001-2020(cont'd)

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Incidence Rate (per 100,000 population)																				
<u>Air/Droplet-Borne Diseases</u>																				
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0
<i>Haemophilus influenzae</i> type b	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.0
Hand, Foot and Mouth Disease	125.4	388.6	136.2	153.9	357.7	347.2	435.9	613.4	346.4	608.2	399.1	698.8	587.9	405.3	509.8	751.8	599.8	713.2	-	-
Measles	1.5	1.4	0.8	2.3	0.8	0.6	0.3	0.4	0.3	1.0	2.9	0.7	0.9	2.6	0.8	2.4	1.2	0.6	2.7	0.2
Meningococcal infection	0.1	0.3	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1
Mumps	33.8	26.1	21.3	24.1	23.5	19.2	17.0	16.6	12.7	8.9	9.7	9.8	9.2	8.7	8.5	9.6	9.3	8.4	7.4	5.0
Pertussis	-	-	-	0	0	0.1	0.8	0.7	0.3	0.2	0.6	0.5	0.3	0.4	1.0	1.5	1.4	1.9	1.1	0.2
Pneumococcal disease (Invasive)	-	-	-	-	-	-	-	-	3.1	3.3	2.9	3.1	3.1	2.7	2.5	2.3	2.8	2.4	2.3	0.8
Rubella	5.8	3.6	2.1	3.4	3.3	2.0	1.8	3.7	3.6	3.1	2.1	1.2	0.9	0.3	0.3	0.2	0.3	0.2	0.0	0.0
Varicella	440.3	649.5	371.0	482.0	568.4	545.9	511.6	-	-	-	-	-	-	-	-	-	-	-	-	-
<u>Vector-Borne Diseases</u>																				
Chikungunya Fever	-	-	-	-	-	-	-	14.8	6.8	0.5	0.2	0.4	19.6	3.3	0.8	0.6	0.5	0.3	1.0	0.2
Dengue fever/Dengue haemorrhagic fever	57.3	94.5	116.4	227.0	333.1	71.0	192.3	145.3	90.2	105.6	102.8	87.2	410.6	335.0	204.0	233.4	49.3	58.2	280.2	619.3
Malaria	5.5	4.2	2.9	3.6	3.9	4.1	3.4	3.1	3.4	3.7	2.9	2.7	2.1	1.1	0.8	0.6	0.7	0.6	0.6	0.2
Zika virus infection	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2	1.2	0.0	0.2	0.0
<u>Food-Borne Diseases</u>																				
Campylobacteriosis	2.5	1.2	3.5	3.1	5.6	5.4	3.7	3.7	5.2	6.3	7.2	8.3	7.4	8.0	7.6	7.9	8.8	7.6	8.3	8.5
Cholera	0.2	0.0	0.0	0.3	0.0	0.0	0.2	0.0	0.1	0.1	0.04	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
<u>Enteric fever</u>																				
Typhoid	2.0	1.2	0.8	1.2	1.6	1.4	1.5	1.7	1.4	1.6	1.4	1.6	1.6	1.1	0.9	0.9	1.2	0.8	1.3	0.5
Paratyphoid	0.8	0.6	0.2	0.8	0.6	0.5	0.7	0.6	0.6	0.7	0.6	1.1	0.4	0.3	0.5	0.3	0.3	0.3	0.2	0.2
Hepatitis A	1.4	5.7	1.3	1.6	2.3	3.3	1.9	2.2	1.8	1.3	1.3	2.0	1.6	1.3	0.9	0.9	1.4	1.3	1.2	0.5
Hepatitis E	0.1	0.6	0.4	0.6	0.8	0.7	0.8	1.1	1.8	2.2	1.9	2.0	1.0	1.2	1.1	1.3	1.4	0.9	0.7	0.9
Salmonellosis	4.8	3.1	4.7	8.3	6.9	8.6	6.7	14.9	22.9	29.2	26.5	28.2	32.1	35.1	35.9	39.4	35.8	28.7	33.2	25.4
<u>Blood-Borne & Sexually Transmitted Diseases</u>																				
Hepatitis B	1.9	1.5	1.6	2.4	1.9	2.2	1.7	1.8	1.4	1.3	1.4	1.1	1.1	0.9	0.9	0.8	0.7	0.9	0.6	0.8
Hepatitis C	-	-	-	0.1	0.6	0.8	0.4	0.3	0.1	0.1	0.1	0.0	0.0	0.1	0.8	0.4	0.4	0.2	0.3	0.3
HIV/AIDS	7.1	6.9	7.2	9.1	9.1	10.1	11.8	12.5	12.4	11.7	12.2	12.3	11.8	11.8	11.7	10.4	10.9	7.8	8.8	6.5
Sexually Transmitted Infections	161.6	165.0	198.6	256.7	259.0	249.7	251.1	253.8	228.2	211.6	215.3	204.6	191.6	186.2	186.4	192.0	201.6	183.0	253.0	191.8
<u>Other Diseases</u>																				
Legionellosis	1.3	1.0	1.1	0.4	0.5	0.4	0.3	0.5	0.4	0.5	0.4	0.6	0.4	0.7	0.3	0.2	0.3	0.4	0.4	0.3
Leprosy	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.0	0.1	0.1	0.1	0.1	0.1

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Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Melioidosis	1.4	0.8	1.1	2.4	1.8	1.4	1.3	1.3	0.8	1.2	0.7	0.6	0.7	0.6	0.8	1.0	0.9	0.6	0.8	0.7
Tuberculosis	44.3	40.8	40.9	37.9	37.2	35.9	35.0	40.3	39.4	39.9	41.0	41.5	37.6	36.9	36.1	41.2	39.0	38.7	34.7	39.1

SPECIAL FEATURE: COVID-19

COVID-19 is an infectious disease caused by the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The symptoms of COVID-19 infection are similar to that of an acute respiratory infection, which include fever, cough, runny nose, sore throat, loss of taste or smell. Current evidence suggests that transmission occurs through exposure to respiratory droplets and aerosols from infected people.

There were a total of 58,588 laboratory confirmed COVID-19 cases reported in 2020, of whom 97% were local cases. Most of the cases were aged between 25 to 34 years old.

Table 1.1
Total number of notifications[^] received for COVID-19, 2020

Age group	2020	
	Local	Imported
0-4	18	53
5-14	52	48
15-24	5,198	304
25-34	26,105	550
35-44	17,493	432
45-54	6,921	202
55-64	751	139
65+	247	75
Total	56,785	1,803

[^]Excluded tourists and foreigners seeking medical treatment in Singapore.

Table 1.2
Age-sex distribution and age-specific resident incidence rate of reported COVID-19 cases[^], 2020

Age group	Number of notifications				Incidence rate per 100,000 resident population [*]
	Male	Female	Total	%	
0-4	35	36	71	0.1	16.4
5-14	57	43	100	0.2	16.8
15-24	5,284	218	5,502	9.4	60.7
25-34	26,167	488	26,655	45.5	57.1
35-44	17,542	383	17,925	30.6	65.8
45-54	6,921	202	7,123	12.2	63.8
55-64	721	169	890	1.5	64.7
65+	174	148	322	0.5	46.2
Total	56,901	1,687	58,588	100	-

[^]Excluded tourists and foreigners seeking medical treatment in Singapore.

^{*}Rates are based on 2020 estimated mid-year population.

(Source: Singapore Department of Statistics)

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Table 1.3
Ethnic-sex distribution and ethnic-specific incidence rate of reported COVID-19 cases[^], 2020

	Male	Female	Total	%	Incidence rate per 100,000 population*
Singapore residents					
Chinese	668	494	1,162	2.0	38.6
Malay	158	158	316	0.5	57.9
Indian	336	238	574	1.0	158.4
Others	64	43	107	0.2	82.5
Foreign residents	55,675	754	56,429	96.3	3437.4
Total	56,901	1,687	58,588	100	1030.4

[^] Excluded tourists and foreigners seeking medical treatment in Singapore.

*Rates are based on 2020 estimated mid-year population.