

Table 7.15
Reported diphtheria, poliomyelitis, measles, acute hepatitis B, neonatal tetanus, pertussis, congenital rubella and childhood tuberculous meningitis in Singapore, 1983 – 2013

Year	Diphtheria	Poliomy- elitis	Measles	Mumpsφ	Rubellaφ	Acute hepatitis B@	Neonatal tetanus*	Pertussis@	Congenital rubella#	Childhood tuberculous meningitis##
1983	4 (4)	2 (2)	677	-	-	10	3	7	10	1
1984	0	2 (2)	2,417	-	-	10	1	1	7	0
1985	0	0	136	-	-	7	0	0	3	1
1986	1	2 (2)	218	-	-	5	3	9++	3	1
1987	1 (1)	0	123	-	-	6	0	9++	2	1
1988	0	0	192	-	-	2	0	11++	0	0
1989	1 (1)	0	146	-	-	4	0	1++	2	0
1990	1	1 (1)	143	-	-	1	0	8+++	4	0
1991	1 (1)	0	216	636	51	3	0	5++	1	0
1992	1	0	606	1,981	370	3	0	14++	4	0
1993	0	0	665	1,962	423	2	0	1++	4	0
1994	0	0	159	1,636	299	2	1	2++	2	0
1995	0	0	185	786	326	0	0	1++	2*	2*

Year	Diphtheria	Poliomy- elitis	Measles	Mumpsφ	Rubellaφ	Acute hepatitis B@	Neonatal tetanus*	Pertussis@@	Congenital rubella#	Childhood tuberculous meningitis##
1996	1 (1)	0	308	765	487	3	0	4 (1)+++	2*	2*
1997	0	0	1,413	674	360	0	0	2++	0*	2*
1998	0	0	114	1,183	179	0	0	1+	0*	0
1999	0	0	65++	6,384 (28)	432	0	0	1++	2*	1*
2000	0	0	141++	5,981+	312+	0	0	2 (1)+++	0	1*
2001	0	0	61++	1,399+	242+	0	0	1+	2*	0
2002	0	0	57++	1,090+	152+	0	0	0	1	1
2003	0	0	33++	878+	88+	0	0	1+++	0	0
2004	0	0	96++	1,003+	141+	0	0	1+++	0	0
2005	0	0	33++	1,004+	139+	0	0	2++	1	0
2006	0	1(1) &	28++	844+	90+	0	0	3+++	0	0
2007	0	0	15++	780+	83+	0	0	38++	0	0
2008	0	0	18++	801+	180+	0	0	33++	2	0
2009	0	013++	...631+	178+	0	0	13	0	0
2010	0	0	49++	452+++	158+++	0	0	8++	2&	2
2011	0	0	148++	501+++	110+++	0	0	29++	2	0
2012	0	0	38++	521+++	64+++	0	0	24++	2&	0
2013	0	0	46++	495+++	48+++	0	0	17++	1&	0

* Source: Central Claims Processing System, Ministry of Health.

() Imported cases.

φ Notifiable with effect from April 1990.

@ Indigenous cases below 15 years of age.

@@ All pertussis cases reported prior to 1986 were based on clinically diagnosed cases seen at the Communicable Disease Centre.

+ Based on clinically diagnosed cases

++ Based on laboratory confirmed cases.

+++ Based on laboratory confirmed and clinically diagnosed cases.

Cases diagnosed in KK Women's and Children's Hospital, Singapore General Hospital and National University Hospital.

Below 10 years of age

& Foreigner who came for treatment

INFECTIOUS DISEASE NOTIFICATIONS IN SINGAPORE, 1990 - 2013

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
	Number of Notifications																								
Air-/Droplet-Borne Diseases																									
Chickentpox	18934	17930	29976	43876	39558	23224	49763	27723	27183	31592	24074	18220	27124	15265	20083	24248	24026	30548	ND	ND	ND	ND	ND	ND	ND
Diphtheria	1	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hand, Foot and Mouth Disease	-	58	28	310	154	184	84	358	1344	1408	6402	5187	16228	5603	6411	15257	15282	20003	29686	17278	30878	20687	37125	31741	31741
Measles	143	216	606	665	159	185	308	1413	114	65	141	61	57	33	96	33	28	15	18	13	49	148	38	46	46
Meningococcal infection	-	-	-	-	-	-	-	-	-	-	-	4	13	11	7	5	10	5	6	5	7	6	0	3	3
Mumps	67	636	1981	1962	1636	786	765	674	1183	6384	5981	1399	1090	878	1003	1004	844	780	801	631	452	501	521	495	495
Rubella	-	51	370	423	299	326	487	360	179	432	312	242	152	88	141	139	90	83	180	178	158	110	64	48	48
Vector-Borne/Zoonotic Diseases																									
Chikungunya Fever	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	718	341	26	12	22	1059
Dengue fever/Dengue haemorrhagic fever	1733	2179	2878	946	1239	2008	3128	4300	5258	1355	673	2372	3945	4788	9459	14209	3127	8826	7031	4497	5363	5330	4632	22170	22170
Malaria	216	267	221	354	277	316	364	421	405	316	266	229	175	118	152	166	181	155	152	172	190	149	143	111	111
Plague	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow fever	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Food -/ Water-Borne Diseases																									
Campylobacteriosis	-	36	69	106	84	102	107	121	269	343	231	105	50	144	131	241	236	170	177	261	320	372	443	397	397
Cholera	26	34	17	24	42	14	19	11	31	11	10	8	2	2	11	1	0	7	1	4	4	2	2	2	2
Hepatitis A	162	281	397	173	138	131	152	149	138	88	77	60	236	55	67	98	146	88	107	89	68	66	108	88	88
Hepatitis E	-	-	-	11	10	1	20	17	24	20	17	3	24	17	24	36	31	35	54	90	112	97	104	55	55
Enteric fever	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid	187	109	127	117	98	110	109	93	57	48	80	82	49	32	52	69	60	67	84	69	82	71	84	84	84
Paratyphoid	44	23	35	27	51	61	207	19	23	15	21	34	25	9	32	26	23	33	29	28	38	33	57	23	23
Listeriosis	-	-	-	-	-	-	-	-	-	-	-	1	1	2	4	5	9	6	5	ND	ND	ND	ND	ND	ND
Salmonellosis	-	-	-	-	-	-	-	-	-	-	99	198	129	192	345	296	380	309	719	1144	1480	1374	1499	1735	1735
Shigellosis	108	69	35	25	24	38	33	15	25	11	7	14	4	4	17	9	19	13	29	ND	ND	ND	ND	ND	ND
Blood-Borne Diseases																									
Hepatitis B	244	200	165	133	109	135	146	179	205	140	117	80	63	64	98	83	96	79	87	69	65	73	58	57	57
Environment-Related Diseases																									
Legionellosis	32	14	58	17	33	22	32	43	37	79	65	52	40	46	17	21	19	16	25	22	25	21	31	24	24
Leptospirosis	-	-	-	-	-	-	-	-	-	-	-	-	34	29	9	32	29	26	57	ND	ND	ND	ND	ND	ND
Melioidosis	22	43	46	56	40	90	70	58	114	81	77	59	34	44	98	78	62	61	62	40	60	34	31	36	36
Murine Typhus	-	-	-	-	-	-	-	-	-	19	122	128	31	16	27	27	11	21	13	ND	ND	ND	ND	ND	ND
HIV/AIDS, STIs, Tuberculosis & Leprosy																									
HIV/AIDS*	17	42	55	64	86	111	139	173	199	206	226	237	234	242	311	317	359	423	456	463	441	461	469	454	454
Sexually Transmitted Infections	6938	6545	8005	7692	7242	6140	5570	5801	6258	6318	6251	6886	6891	8173	10697	11048	10989	11523	12280	11381	10742	11159	10869	10347	10347
Tuberculosis **	1366	1531	1510	1576	1434	1564	1696	1712	1810	1543	1518	1474	1702	1684	1578	1586	1581	1608	1951	1966	2028	2126	2203	2028	2028
Leprosy	36	22	41	24	27	33	23	23	19	22	18	14	11	11	14	13	12	12	10	8	11	11	14	7	7

* Refers to Singaporeans/PR cases

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

INFECTIOUS DISEASE NOTIFICATIONS IN SINGAPORE, 1990 - 2013(cont'd)

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
	Incidence Rate (per 100,000 population)																								
Air-/Droplet-Borne Diseases																									
Chicknipox	621.4	571.9	927.8	1324.2	1157.0	658.9	1355.7	730.3	692.2	798.0	597.7	440.3	649.5	371.0	482.0	568.4	545.9	511.6	NA	NA	NA	NA	NA	NA	NA
Diphtheria	0.0	0.0	0.0	-	-	-	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hand, Foot and Mouth Disease	-	1.9	0.9	9.4	4.5	5.2	2.3	9.4	34.2	35.6	158.9	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	587.9
Measles	4.7	6.9	18.8	20.1	4.7	5.2	8.4	37.2	2.9	1.6	3.5	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	0.9
Meningococcal infection	-	-	-	-	-	-	-	-	-	-	-	0.10	0.31	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
Mumps	2.2	20.3	61.3	59.2	47.9	22.3	20.8	17.8	30.1	161.3	148.5	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	9.2
Rubella	-	1.6	11.5	12.8	8.7	9.2	13.3	9.5	4.6	10.9	7.7	5.8	3.6	2.1	3.4	3.3	2.0	1.8	3.7	3.6	3.1	2.1	2.1	1.2	0.9
Vector-Borne/Zoonotic Diseases																									
Chikungunya Fever	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8	6.8	0.5	0.2	0.4	19.6
Dengue fever/Dengue haemorrhagic fever	56.9	69.5	89.1	28.5	36.2	57.0	85.2	113.3	133.9	34.2	16.7	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	410.6
Malaria	7.1	8.5	6.8	10.7	8.1	9.0	9.9	11.1	10.3	8.0	6.6	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	2.1
Plague	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow fever	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Food & Water-Borne Diseases																									
Campylobacteriosis	-	1.1	2.1	3.2	2.5	2.9	2.9	3.2	6.8	8.7	5.7	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	7.4
Cholera	0.9	1.1	0.5	0.7	1.2	0.4	0.5	0.3	0.8	0.3	0.2	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
Hepatitis A	5.3	9.0	12.3	5.2	4.0	3.7	4.1	3.9	3.5	2.2	1.9	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	1.6
Hepatitis E	-	-	-	0.3	0.3	0.0	0.5	0.4	0.6	0.5	0.4	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	1.0
Enteric fever	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Typhoid	6.1	3.5	3.9	3.5	2.9	3.1	3.0	2.4	1.5	1.2	2.0	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	1.6
Paratyphoid	1.4	0.7	1.1	0.8	1.5	1.7	5.6	0.5	0.6	0.4	0.5	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	0.4
Listeriosis	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.1	-	-	-	-	-	-
Salmonellosis	-	-	-	-	-	-	-	-	-	-	2.5	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	32.1
Shigellosis	3.5	2.2	1.1	0.8	0.7	1.1	0.9	0.4	0.6	0.3	0.2	0.3	0.1	0.1	0.4	0.2	0.4	0.3	0.6	-	-	-	-	-	-
Blood-Borne Diseases																									
Hepatitis B	8.0	6.4	5.1	4.0	3.2	3.8	4.0	4.7	5.2	3.5	2.9	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	1.1
Environment-Related Diseases																									
Legionellosis	1.1	0.4	1.8	0.5	1.0	0.6	0.9	1.1	0.9	2.0	1.6	1.3	1.0	1.1	0.4	0.5	0.4	0.3	0.5	0.4	0.5	0.4	0.6	0.6	0.4
Leptospirosis	-	-	-	-	-	-	-	-	-	-	-	-	0.8	0.7	0.2	0.8	0.7	0.6	1.2	-	-	-	-	-	-
Melioidosis	0.7	1.4	1.4	1.7	1.2	2.6	1.9	1.5	2.9	2.0	1.9	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	0.7
Murine Typhus	-	-	-	-	-	-	-	-	-	0.5	3.0	3.1	0.7	0.4	0.6	0.6	0.2	0.5	0.3	-	-	-	-	-	-
HIV/AIDS, STIs, Tuberculosis & Leprosy																									
HIV/AIDS	0.6	1.5	1.9	2.2	2.9	3.7	4.5	5.5	6.3	6.4	6.9	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
Sexually Transmitted Infections	227.7	208.8	247.8	232.1	211.8	174.2	151.7	152.8	159.4	159.6	155.2	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	191.6
Tuberculosis	49.9	54.8	53.0	54.3	48.5	51.9	55.3	54.8	56.9	47.8	46.4	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	37.6
Leprosy	1.2	0.7	1.3	0.7	0.8	0.9	0.6	0.6	0.5	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.1	0.1

Remarks

Chikungunya Fever was made notifiable since 2008

ND : Not notifiable since Jan 2009