

APPENDIX: NATIONAL DATA AND TRENDS

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Comparison of notifiable disease cases and rates for 2009 and 2010

Table 40. Number of cases and rates per 100 000 population for common (10 or more cases reported per year) notifiable diseases in New Zealand, 2009–2010

Disease	2009		2010		Change ^{c, d}
	Cases	Rate	Cases	Rate	
AIDS	28	0.6	39	0.9	→
Campylobacteriosis	7 177	166.3	7 346	168.2	→
Cryptosporidiosis	854	19.8	954	21.8	→
Dengue fever	139	3.2	51	1.2	←
Gastroenteritis ^a	712	16.5	492	11.3	←
Giardiasis	1 639	38.0	1 985	45.4	→
Hepatitis A	44	1.0	46	1.1	→
Hepatitis B ^b	55	1.3	51	1.2	←
Hepatitis C ^b	32	0.7	17	0.4	←
Invasive pneumococcal disease	697	16.1	535	12.2	←
Lead absorption	273	6.3	201	4.6	←
Legionellosis	74	1.7	178	4.1	→
Leptospirosis	69	1.6	81	1.9	→
Listeriosis	28	0.6	23	0.5	←
Malaria	50	1.2	44	1.0	←
Measles	248	5.7	48	1.1	←
Meningococcal disease	133	3.1	97	2.2	←
Mumps	63	1.5	41	0.9	←
Non seasonal influenza A (H1N1)	3 670	85.0	1 826	41.8	←
Paratyphoid fever	25	0.6	19	0.4	←
Pertussis	1 398	32.4	873	20.0	←
Rheumatic fever	140	3.2	168	3.8	→
Rickettsial disease	5	0.1	14	0.3	→
Salmonellosis	1 128	26.1	1 146	26.2	→
Shigellosis	119	2.8	105	2.4	←
Tuberculosis disease	299	6.9	307	7.0	→
Typhoid fever	34	0.8	31	0.7	←
VTEC/STEC infection	143	3.3	138	3.2	←
Yersiniosis	430	10.0	406	9.3	←

^aCases of gastroenteritis from a common source or foodborne intoxication e.g. staphylococcal intoxication.

^bOnly acute cases of this disease are notifiable.

^c← = significant decrease, → = significant increase, -- = no change, ← = not significant decrease, → = not significant increase

^dThe Pearson chi-square test or where necessary Fisher's Exact test were used to determine statistical significance. P-values less than 0.05 are considered to be significant at the 95% level of confidence

Comparison of notifiable disease cases and rates for 2009 and 2010

Table 41. Number of cases of rare (less than 10 cases reported per year) notifiable diseases in New Zealand, 2009–2010

Disease ^a	2009	2010
Barmah Forest virus infection	2	0
Brucellosis	0	1
Chemical poisoning from the environment	6	3
Cholera	0	2
Diphtheria	1	0
<i>Enterobacter sakazakii</i>	0	2
<i>Haemophilus influenzae</i> type b	10	8
Hepatitis NOS	2	3
Hydatid disease	3	4
Leprosy	3	3
Ross River virus infection	3	5
Rubella	4	4
Taeniasis	3	3
Tetanus	1	7
Toxic shellfish poisoning	1	9

^a No cases of the following notifiable diseases were reported in 2009 and 2010: anthrax, congenital rubella, cysticercosis, decompression sickness, HPAI, plague, poliomyelitis, primary amoebic meningo-encephalitis, rabies, SARS, trichinosis, viral haemorrhagic fever and yellow fever.

Deaths from notifiable diseases in EpiSurv, 1997–2010

Table 42. Deaths due to notifiable diseases recorded in EpiSurv, 1997–2010

Disease	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
AIDS ^a	34	19	18	19	14	11	10	13	15	14	5	2	2	8
Campylobacteriosis	2	2	1	3	1	1	0	0	1	1	1	0	0	0
Chemical poisoning from the environment	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Creutzfeldt-Jakob disease ^b	3	0	2	3	1	3	4	3	0	5	0	0	0	0
Gastroenteritis	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Giardiasis	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Haemophilus influenzae</i> type b	1	0	0	0	1	1	2	0	0	0	0	0	0	1
Hepatitis B	2	0	0	0	1	0	0	0	1	0	1	0	0	0
Hydatid disease	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Invasive pneumococcal disease ^c												8	35	27
Legionellosis ^d	4	1	1	5	2	3	1	1	4	3	1	4	2	5
Listeriosis - non perinatal	2	0	1	2	1	0	2	3	1	0	2	3	2	3
Listeriosis - perinatal	6	0	2	4	1	3	2	2	0	1	2	2	2	4
Malaria	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningococcal disease	24	23	23	17	26	18	13	8	14	7	7	8	5	6
Non seasonal influenza A (H1N1) ^e													34	16
Pertussis	0	0	0	0	1	1	1	1	0	0	0	0	0	0
Primary amoebic meningoencephalitis	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Rheumatic fever ^f	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	2	2	1	7	2	1	0	0	1	1	1	1	1	0
Shigellosis	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Tetanus	0	0	0	0	1	0	0	0	0	0	1	0	0	1
Tuberculosis disease	15	8	14	8	2	6	6	6	4	5	3	4	4	8
VTEC/STEC infection	1	1	0	0	0	0	0	0	0	0	0	0	1	0
Yersiniosis	0	2	0	0	0	0	0	1	0	0	0	0	0	0

^a Data source [36]

^b Data source [14]

^c Invasive pneumococcal disease became notifiable on 17 October 2008

^d One further legionellosis death occurred in a laboratory-reported but non-notified case in 2002

^e Non seasonal influenza became notifiable on 29 April 2009

^f The death was a rheumatic fever occurrence

Note: The numbers in this table are those recorded in EpiSurv where the notifiable disease was the primary cause of death. Information on deaths is most likely to be reported by public health services when it occurs close to the time of notification and investigation.

Mortality data for selected notifiable diseases, 2006–2008 (Ministry of Health, NMDS)

Table 43. Reported deaths from selected notifiable diseases, 2006–2008

Disease	ICD 10 codes	2006		2007		2008 ^a	
		Und ^b	Cont ^c	Und ^b	Cont ^c	Und ^b	Cont ^c
AIDS	B20-B24	17	5	10	8	7	3
Campylobacteriosis	A04.5	3		1			4
Creutzfeldt-Jakob disease	A81.0	3		7		2	
Dengue fever	A90, A91					1	
Hepatitis A	B15				2		1
Hepatitis B	B16		5	2	3	1	3
Hepatitis C	B17.1		1				5
Hydatid disease	B67						1
Legionellosis	A48.1	1		1		3	2
Listeriosis	A32		1	2		1	1
Meningococcal disease	A39	6		7		8	
Salmonellosis	A02	1				1	2
Shigellosis	A03					1	
Tetanus	A33-A35			1			
Tuberculosis	A15-A19, P37.0	11	8	7	8	8	11
Yersiniosis	A04.6					1	1

^a Latest year that data are available

^b Underlying – main cause of death

^c Contributory – selected contributory cause of death (not main cause of death)

Morbidity data for selected notifiable diseases, 2008–2010 (Ministry of Health, NMDS)

Table 44. Hospital admissions for selected notifiable diseases, 2008–2010

Disease	ICD 10 codes	2008		2009		2010	
		Prin ^a	Oth ^b	Prin ^a	Oth ^b	Prin ^a	Oth ^b
AIDS	B20-B24	26	266	16	285	16	297
Arboviral diseases	A83, A84, A85.2, A92, A93, A94, B33.1	1	0	1	0	1	0
Brucellosis	A23	2	0	0	0	0	0
Campylobacteriosis	A04.5	388	97	473	101	518	106
Cholera	A00	1	0	0	0	1	0
Creutzfeldt-Jakob disease	A81.0	5	9	4	0	5	2
Cryptosporidiosis	A07.2	19	13	19	4	16	14
Cysticercosis	B69	2	0	1	2	4	1
Decompression sickness	T70.3	12	2	24	3	18	2
Dengue fever	A90, A91	35	5	22	3	15	2
Diphtheria	A36	0	0	0	0	2	0
Giardiasis	A07.1	18	21	21	13	18	15
Hepatitis A	B15	19	18	17	7	20	10
Hepatitis B	B16	33	81	27	27	25	23
Hepatitis C	B17.1	12	21	15	29	13	10
Hydatid disease	B67	0	0	2	1	1	0
Lead absorption	T56.0	2	0	5	0	6	0
Legionellosis	A48.1	37	6	33	9	68	11
Leprosy	A30	5	4	0	1	1	3
Leptospirosis	A27	57	7	46	3	57	3
Listeriosis	A32	13	13	11	17	13	18
Malaria	B50-B54	30	0	34	2	40	2
Measles	B05	3	0	29	1	5	0
Meningococcal disease	A39	125	21	167	23	112	22
Mumps	B26	16	4	9	3	10	3
Paratyphoid	A01.1-A01.4	4	0	3	0	6	1
Pertussis	A37	72	11	124	19	132	23
Poliomyelitis	A80	0	1	0	0	0	0
Rheumatic fever	I00, I01, I02	227	46	230	35	254	55
Rickettsial diseases	A75, A77, A78, A79	7	1	6	3	7	1
Rubella	B06	0	1	0	1	1	1
Salmonellosis	A02	118	40	130	28	120	49
Shigellosis	A03	15	4	14	5	21	4
Taeniasis	B689	0	1	0	0	0	1
Tetanus	A33-A35	1	0	1	0	7	1
Tuberculosis	A15-A19, P37.0	205	121	237	146	255	159
Typhoid	A01.0	19	1	25	1	34	1
VTEC/STEC infection	A04.0-A04.4	26	20	24	11	35	24
Yersiniosis	A04.6	23	30	24	22	13	14

^a Principal diagnosis

^b Other relevant diagnosis

Note: Hospital admission data may include multiple admissions (to the same or different hospitals) for the same case and admissions may relate to cases first diagnosed in previous years.

Notifiable disease cases and rates by sex, 2010

Table 46. Number of cases and rates per 100 000 population of notifiable diseases by sex, 2010

Disease	Sex							
	Male		Female		Unknown		Total	
	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate
Campylobacteriosis	4 093	190.9	3 207	144.3	46		7 346	168.2
Cryptosporidiosis	482	22.5	466	21.0	6		954	21.8
Dengue fever	26	1.2	24	1.1	1		51	1.2
Gastroenteritis	217	10.1	261	11.7	14		492	11.3
Giardiasis	995	46.4	979	44.0	11		1 985	45.4
<i>Haemophilus influenzae</i> type b	4		4		0		8	0.2
Hepatitis A	23	1.1	23	1.0	0		46	1.1
Hepatitis B	39	1.8	11	0.5	1		51	1.2
Hepatitis C	10	0.5	7	0.3	0		17	0.4
Hydatid disease	3		1		0		4	
Invasive pneumococcal disease	279	13.0	256	11.5	0		535	12.2
Lead absorption	175	8.2	26	1.2	0		201	4.6
Legionellosis	99	4.6	79	3.6	0		178	4.1
Leprosy	2		1		0		3	
Leptospirosis	69	3.2	12	0.5	0		81	1.9
Listeriosis - non perinatal	8	0.4	9	0.4	0		17	0.4
Malaria	34	1.6	10	0.4	0		44	1.0
Measles	26	1.2	21	0.9	1		48	1.1
Meningococcal disease	48	2.2	49	2.2	0		97	2.2
Mumps	16	0.7	25	1.1	0		41	0.9
Non seasonal influenza A (H1N1)	857	40.0	969	43.6	0		1 826	41.8
Paratyphoid fever	8	0.4	11	0.5	0		19	0.4
Pertussis	351	16.4	522	23.5	0		873	20.0
Rheumatic fever	80	3.7	88	4.0	0		168	3.8
Rickettsial disease	6	0.3	8	0.4	0		14	0.3
Rubella	2		2		0		4	
Salmonellosis	561	26.2	577	26.0	8		1 146	26.2
Shigellosis	50	2.3	55	2.5	0		105	2.4
Tetanus	3		4		0		7	0.2
Toxic shellfish poisoning	3		6	0.3	0		9	0.2
Tuberculosis disease	154	7.2	153	6.9	0		307	7.0
Typhoid fever	18	0.8	12	0.5	1		31	0.7
VTEC/STEC infection	67	3.1	70	3.1	1		138	3.2
Yersiniosis	225	10.5	181	8.1	0		406	9.3

Note: Where fewer than five cases have been notified a rate has not been calculated and the cell has been left blank.

