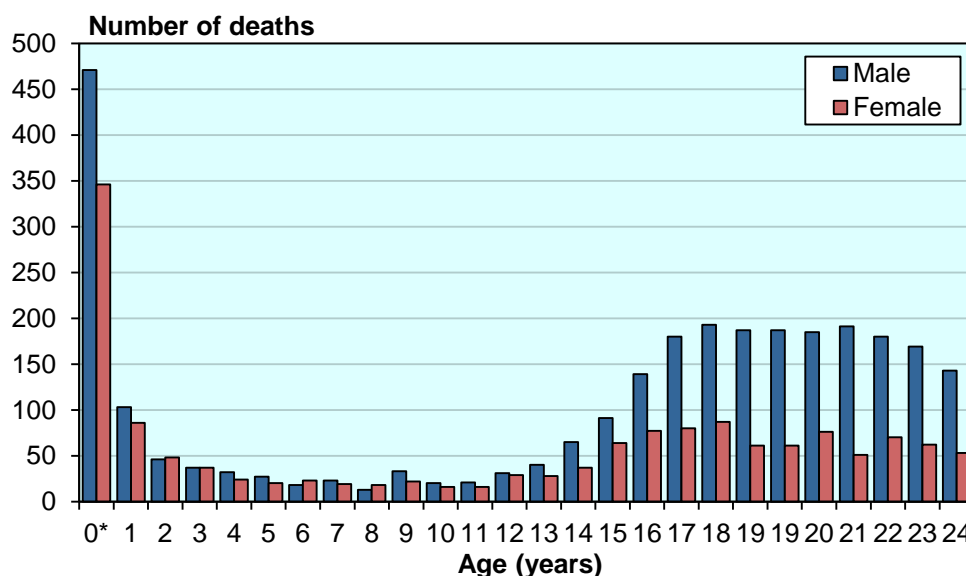


Extras – NZCYMRC Data 2004–2009

Figure E.1: Total number of deaths by gender and by year of age, New Zealand 2004–2009 combined (n=4088 deaths)



* This category represents children 28 days and older, and less than one calendar year in age

Source: Mortality Review Database

Table E.1: Mortality (number of deaths) by age group and year, New Zealand 1979–2009

Year	< 1 year *	1–4 years	5–9 years	10–14 years	15–19 years	20–24 years	Total
1979	310	149	95	99	322	303	1278
1980	355	138	96	96	305	344	1334
1981	308	160	77	97	315	326	1283
1982	324	129	82	74	288	343	1240
1983	353	111	79	92	279	381	1295
1984	368	118	74	84	272	323	1239
1985	321	112	85	95	308	326	1247
1986	329	135	65	97	312	351	1289
1987	324	112	70	94	325	375	1300
1988	350	116	68	76	295	364	1269
1989	336	111	67	70	335	360	1279
1990	253	120	56	62	299	375	1165
1991	240	99	64	68	241	328	1040
1992	214	102	68	75	249	341	1049
1993	207	109	44	56	250	338	1004
1994	211	102	53	51	203	283	903
1995	204	92	53	60	225	338	972
1996	194	95	54	69	257	270	939
1997	182	102	50	61	240	245	880
1998	137	85	53	75	207	231	788
1999	153	74	40	67	204	226	764
2000	143	88	53	61	169	195	709
2001	145	79	47	66	195	219	751
2002	107	81	48	47	163	192	638
2003	116	66	38	61	216	190	687
2004	152	56	37	53	193	196	687
2005	109	59	41	50	204	201	664
2006	149	60	32	43	207	179	670
2007	141	81	38	53	177	206	696
2008	133	80	35	49	197	205	699
2009	133	77	33	54	182	193	672

* This category represents children 28 days and older, and less than one calendar year in age

Source: Mortality Review Database for deaths from 2002 onwards; NZHIS for deaths 1979–2001

Table E.2: Mortality (number of deaths and rates per 100,000 resident population), by age group and cause, 2004-2009 combined (n=4088 deaths)

	< 1 year*	1-4 years	5-9 years	10-14 years	15-19 years	20-24 years	Total	%	Rate
Medical									
Infectious and parasitic disease	44	20	4	3	2	8	81	2.0	0.90
Neoplasms	14	37	42	57	92	94	336	8.2	3.74
Diseases of the blood and blood-forming organs and disorders of immune system	6	5	1	1	1	1	15	0.4	0.17
Endocrine, nutritional and metabolic diseases	12	17	4	10	23	26	92	2.3	1.02
Mental and behavioural disorders	-	-	-	1	2	3	6	0.1	0.07
Diseases of nervous system	30	40	35	30	53	47	235	5.7	2.62
Diseases of the eye and adnexa	-	1	-	-	-	1	2	0.0	0.02
Diseases of ear and mastoid process	-	-	-	-	-	-	-	-	-
Diseases of circulatory system	16	20	7	13	38	44	138	3.4	1.54
Diseases of respiratory system	81	23	9	8	13	15	149	3.6	1.66
Diseases of digestive system	4	4	1	3	2	4	18	0.4	0.20
Diseases of skin and subcutaneous tissue	-	-	-	-	1	1	2	0.0	0.02
Diseases of musculoskeletal system and connective tissue	2	2	2	1	3	9	19	0.5	0.21
Diseases of genitourinary system	3	-	-	-	1	3	7	0.2	0.08
Pregnancy, childbirth and the puerperium	-	-	-	-	1	3	4	0.1	0.04
Certain conditions originating in the perinatal period	91	1	1	-	-	1	94	2.3	1.05
Congenital anomalies	143	60	16	31	39	31	320	7.8	3.56
Symptoms & abnormal findings not elsewhere classified	-	-	-	-	-	-	-	-	-
Unknown	-	-	-	-	-	-	-	-	-
Total medical	446	230	122	158	271	291	1518	37.1	16.90
Unintentional injury									
External cause unknown	-	-	-	-	-	-	-	-	-
Adverse effect of medication or treatment	1	1	-	1	1	-	4	0.1	0.04
Health system error	-	-	-	-	-	-	-	-	-
Cut/pierce	-	-	-	-	2	4	6	0.1	0.07
Drowning	5	33	10	3	23	29	103	2.5	1.15
Fall	-	9	2	4	22	28	65	1.6	0.72
Fire/burn/heat/smoke	1	10	6	4	5	9	35	0.9	0.39
Firearm	-	-	-	3	5	1	9	0.2	0.10
Machinery	-	2	-	1	-	7	10	0.2	0.11
Transport	10	62	58	62	436	358	986	24.1	10.97
Natural/environmental/animal	-	1	1	5	9	2	18	0.4	0.20
Overexertion/travel/privation	-	-	1	-	1	1	3	0.1	0.03
Poisoning	-	-	1	8	27	38	74	1.8	0.82
Struck by, against	1	5	4	-	3	3	16	0.4	0.18
Suffocation	2	15	5	18	18	10	68	1.7	0.76
Electrocution	-	-	1	1	2	3	7	0.2	0.08
Total unintentional	20	138	89	110	554	493	1404	34.3	15.63
Intentional injury									
Assault	15	18	5	6	32	30	106	2.6	1.18
Suicide	-	-	-	23	286	346	655	16.0	7.29
Total intentional	15	18	5	29	318	376	761	18.6	8.47
Unexplained									
SUDI	334	-	-	-	-	-	334	8.2	3.72
SUD	-	24	-	5	15	13	57	1.4	0.63
Other	1	3	-	-	1	3	8	0.2	0.09
Total unexplained	335	27	-	5	16	16	399	9.8	4.44
Missing data	1	-	-	-	1	4	6	0.1	0.07
Total	817	413	216	302	1160	1180	4088	100.0	45.50

* This category represents children 28 days and older, and less than one calendar year in age

Source: Numerator Mortality Review Database; Denominator Statistics NZ Estimated Resident Population

Table E.3: Mortality (number of deaths), by gender and cause, 2004-2009 combined (n=4088 deaths)

	Female	Male	Total
Medical			
Infectious and parasitic disease	27	54	81
Neoplasms	157	179	336
Diseases of the blood and blood-forming organs and disorders of immune system	6	9	15
Endocrine, nutritional and metabolic diseases	46	46	92
Mental and behavioural disorders	3	3	6
Diseases of nervous system	101	134	235
Diseases of the eye and adnexa	1	1	2
Diseases of ear and mastoid process	-	-	-
Diseases of circulatory system	51	87	138
Diseases of respiratory system	62	87	149
Diseases of digestive system	11	7	18
Diseases of skin and subcutaneous tissue	-	2	2
Diseases of musculoskeletal system and connective tissue	13	6	19
Diseases of genitourinary system	4	3	7
Pregnancy, childbirth and the puerperium	4	-	4
Certain conditions originating in the perinatal period	36	58	94
Congenital anomalies	144	176	320
Symptoms & abnormal findings not elsewhere classified	-	-	-
Unknown	-	-	-
Total medical	666	852	1518
Percentage by gender	43.87%	56.13%	
Unintentional injury			
External cause unknown	-	-	-
Adverse effect of medication or treatment	2	2	4
Health system error	-	-	-
Cut/pierce	1	5	6
Drowning	27	76	103
Fall	13	52	65
Fire/burn/heat/smoke	11	24	35
Firearm	1	8	9
Machinery	1	9	10
Transport	285	701	986
Natural/environmental/animal	7	11	18
Overexertion/travel/privation	1	2	3
Poisoning	24	50	74
Struck by, against	4	12	16
Suffocation	21	47	68
Electrocution	-	7	7
Total unintentional injury	398	1006	1404
Percentage by gender	28.35%	71.65%	
Intentional			
Assault	50	56	106
Suicide	166	489	655
Total intentional injury	216	545	761
Percentage by gender	28.4%	71.6%	
Unexplained			
SUDI	147	187	334
SUD	18	39	57
Other	2	6	8
Total unexplained	167	232	399
Missing Data	3	3	6
Total	1450	2638	4088
Percentage by gender	35.47%	64.53%	

Source: Numerator Mortality Review Database

Table E.4: Mortality (number of deaths) among non-New Zealand residents, by cause of death and age group, 2004–2009 combined (n=75 deaths)

Category	< 1 year*	1-4 years	5-9 years	10-14 years	15-19 years	20-24 years	Total	%
Medical	8	1	1	2	4	5	21	28.0
Unintentional injury	-	1	4	2	11	33	51	68.0
Intentional injury	-	-	-	-	-	2	2	2.7
Unexplained	1	-	-	-	-	-	1	1.3
Total	9	2	5	4	15	40	75	100.0

* This category represents children 28 days and older, and less than one calendar year in age

Source: Mortality Review Database

Table E.5: Non-resident deaths (28 days–24 years) by country of residence, 2004–2009 combined (n=75 deaths)

Country	Deaths per year 2004–2009						Total deaths	
	2004	2005	2006	2007	2008	2009	Number	Percentage (%)
Australia	3	2	3	2	3	5	18	24.0
Canada	1	-	-	-	1	-	2	2.7
Chile	1	-	-	-	-	-	1	1.3
China	1	-	2	-	-	-	3	4.0
Cook Islands	3	-	2	-	-	-	5	6.7
Czech Republic	1	-	-	-	-	-	1	1.3
Denmark	-	-	1	-	-	-	1	1.3
England	2	2	-	1	3	1	9	12.0
Fiji	1	-	-	-	-	-	1	1.3
Finland	-	1	-	-	-	-	1	1.3
French Polynesia	-	3	-	1	1	1	6	8.0
Germany	-	1	-	1	-	-	2	2.7
India	-	2	1	1	-	-	4	5.3
Ireland	-	-	-	-	1	-	1	1.3
Israel	-	-	-	-	-	1	1	1.3
Japan	4	-	-	-	-	-	4	5.3
Kiribati	-	1	-	-	-	-	1	1.3
Malaysia	-	-	-	-	1	-	1	1.3
Niue	1	-	-	-	-	-	1	1.3
Norway	-	-	-	1	-	-	1	1.3
Philippines	-	-	-	-	1	-	1	1.3
Samoa	-	-	2	-	-	-	2	2.7
South Korea	-	-	-	-	-	1	1	1.3
Tonga	1	1	-	-	-	-	2	2.7
USA	1	-	1	2	-	1	5	6.7
Total	20	13	12	9	11	10	75	100.0

Source: Mortality Review Database

Table E.6: Mortality (number of deaths and age-specific mortality rates) by age group and DHB of residence, New Zealand 2004-2009 (n=4088 deaths)

DHB	28 days - <1year	Rate: 28 days - <1year*	1-4 years	Rate: 1-4 years	5-9 years	Rate: 5-9 years	10-14 years	Rate: 10-14 years	15-19 years	Rate: 15-19 years	20-24 years	Rate: 20-24 years	Total	%	Outside DHB	Inside DHB	% resident deaths outside DHB
Northland	41	3.04	23	45.26	15	21.37	10	12.82	64	94.48	52	122.93	205	5.0	31	174	15.1
Waitemata	66	1.47	40	24.46	27	12.68	28	12.43	89	38.99	122	59.06	372	9.1	134	238	36.0
Auckland	73	1.88	26	20.11	14	9.26	18	11.53	73	41.06	98	38.70	302	7.4	46	256	15.2
Counties Manukau	164	3.22	59	32.66	36	15.72	34	14.37	127	55.51	145	75.29	565	13.8	144	421	25.5
Waikato	85	2.64	49	40.57	21	13.47	40	24.05	114	69.85	116	79.40	425	10.4	46	379	10.8
Bay of Plenty	39	2.24	30	45.83	10	11.25	19	19.92	67	78.75	66	112.70	231	5.7	62	169	26.8
Lakes	25	2.51	8	21.47	8	16.52	9	17.75	39	85.98	33	97.86	122	3.0	23	99	18.9
Tairāwhiti	13	2.74	5	27.87	-	-	6	23.87	26	118.07	16	107.10	66	1.6	8	58	12.1
Taranaki	24	2.64	7	20.58	7	15.29	7	13.89	39	80.85	30	87.57	114	2.8	17	97	14.9
Hawke's Bay	32	2.32	21	40.46	12	17.36	15	20.16	60	87.80	37	78.86	177	4.3	18	159	10.2
Whanganui	19	3.57	7	34.83	1	3.62	8	25.69	34	115.41	30	146.63	99	2.4	27	72	27.3
MidCentral	31	2.28	26	50.56	16	23.31	16	21.65	61	76.79	54	74.38	204	5.0	41	163	20.1
Wairarapa	10	3.18	3	24.51	2	12.21	4	22.15	12	72.20	12	119.05	43	1.1	11	32	25.6
Capital & Coast	47	2.00	20	23.04	5	4.79	11	10.33	55	46.04	64	43.72	202	4.9	41	161	20.3
Hutt Valley	41	3.21	17	34.64	5	7.98	13	20.02	23	35.36	35	67.20	134	3.3	31	103	23.1
Nelson Marlborough	6	0.61	8	20.90	9	17.44	9	15.66	37	68.29	27	71.54	96	2.3	16	80	16.7
West Coast	1	0.41	3	32.47	2	16.10	3	20.08	10	80.91	9	102.04	28	0.7	8	20	28.6
Canterbury	54	1.41	34	23.49	13	7.07	29	14.80	108	51.75	135	64.12	373	9.1	32	341	8.6
South Canterbury	7	1.87	4	27.10	1	4.73	4	16.46	27	119.05	15	108.23	58	1.4	8	50	13.8
Otago	15	1.22	14	28.56	3	4.70	10	14.28	50	52.94	44	42.46	136	3.3	11	125	8.1
Southland	24	2.59	9	26.32	9	20.63	8	17.01	44	99.77	39	93.80	133	3.3	19	114	14.3
Unknown	-	-	-	-	-	-	1	-	1	-	1	-	3	0.1	3	-	100.0
Total	817	2.20	413	30.33	216	12.33	302	16.21	1160	61.66	1180	67.54	4088	100.0	777	3311	19.0

** Under 1 years of age rate is shown as deaths per 1000 live births, all other age categories showing deaths per 100,000 resident population

Source: Numerator Mortality Review Database; Denominator NZHIS Live Births for 28 days - <1year, Statistics NZ Estimated Resident Population for 1-24 years of age