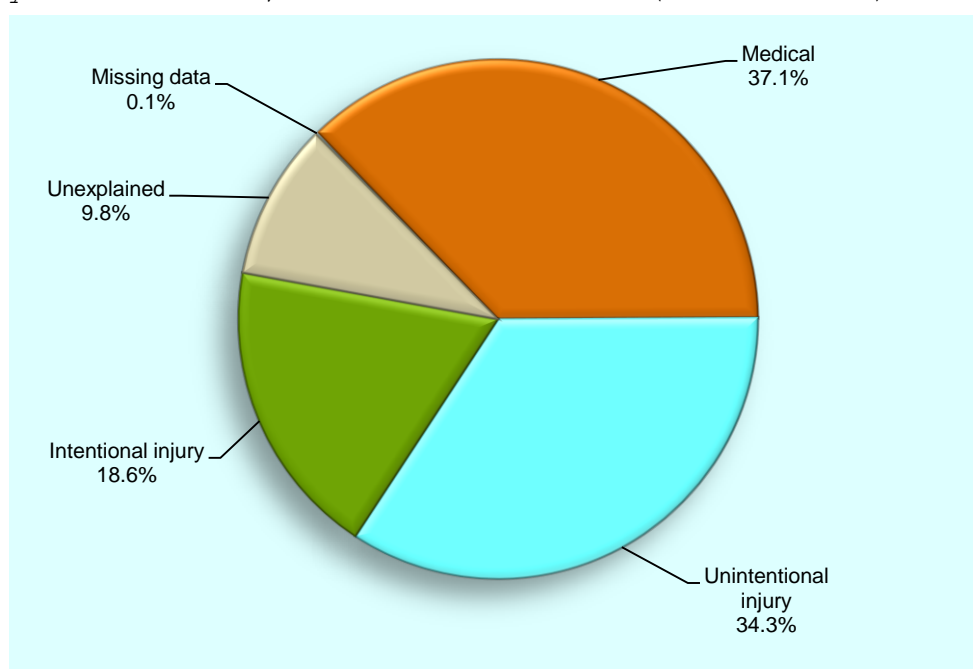


# New Zealand National Data Overview

The main causes of death for children and young people are shown in Figure 1.1 with how the main and detailed causes are distributed by age in Tables 1.1 and 2.2. Deaths by year and age group are shown in Table 1.3 and Figure 1.2. Deaths by main cause of death by year are shown in Table 1.4 and Figure 1.3 while the long term trends in child and youth mortality are shown in Figures 1.4 (child and youth age groups) and Figure 1.5 (infant mortality). Note that the infant mortality rates are per 1000 live births and are significantly higher than the other age groups.

Figure 1.1: Mortality (%) in children and young people ages 28 days to 24 years by cause of death, New Zealand 2004-2009 (n=4088 deaths)



Source: Mortality Review Database

Table 1.1: Mortality (number of deaths) in children and young people aged 28 days to 24 years by cause of death and age group, New Zealand 2004-2009 combined (n=4088 deaths)

Category	<1 year*	1-4 years	5-9 years	10-14 years	15-19 years	20-24 years	Total	Percentage (%)
Medical	446	230	122	158	271	291	1518	37.1
Unintentional injury	20	138	89	110	554	493	1404	34.3
Intentional injury	15	18	5	29	318	376	761	18.6
Unexplained	335	27	-	5	16	16	399	9.8
Missing data	1	-	-	-	1	4	6	0.1
<b>Total</b>	<b>817</b>	<b>413</b>	<b>216</b>	<b>302</b>	<b>1160</b>	<b>1180</b>	<b>4088</b>	<b>100.0</b>

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

Source: Mortality Review Database

Table 1.2: Mortality (number of deaths and rates per 100,000 resident population), by age group and cause, New Zealand 2004-2009 combined (n=4088 deaths)

	<1 year*	1-4 years	5-9 years	10-14 years	15-19 years	20-24 years	Total	%	Average rate
<b>Medical</b>									
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	-	-	-	-	-	-	-	-	-
<b>Total medical</b>	<b>446</b>	<b>230</b>	<b>122</b>	<b>158</b>	<b>271</b>	<b>291</b>	<b>1518</b>	<b>37.1</b>	<b>16.90</b>
<b>Unintentional injury</b>									
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
<b>Total unintentional</b>	<b>20</b>	<b>138</b>	<b>89</b>	<b>110</b>	<b>554</b>	<b>493</b>	<b>1404</b>	<b>34.3</b>	<b>15.63</b>
<b>Intentional injury</b>									
Assault	15	18	5	6	32	30	106	2.6	1.18
Suicide	-	-	-	23	286	346	655	16.0	7.29
<b>Total intentional</b>	<b>15</b>	<b>18</b>	<b>5</b>	<b>29</b>	<b>318</b>	<b>376</b>	<b>761</b>	<b>18.6</b>	<b>8.47</b>
<b>Unexplained</b>									
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
<b>Total unexplained</b>	<b>335</b>	<b>27</b>	<b>-</b>	<b>5</b>	<b>16</b>	<b>16</b>	<b>399</b>	<b>9.8</b>	<b>4.44</b>
MISSING DATA	1	-	-	-	1	4	6	0.1	0.07
<b>Total</b>	<b>817</b>	<b>413</b>	<b>216</b>	<b>302</b>	<b>1160</b>	<b>1180</b>	<b>4088</b>	<b>100.0</b>	<b>45.50</b>

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

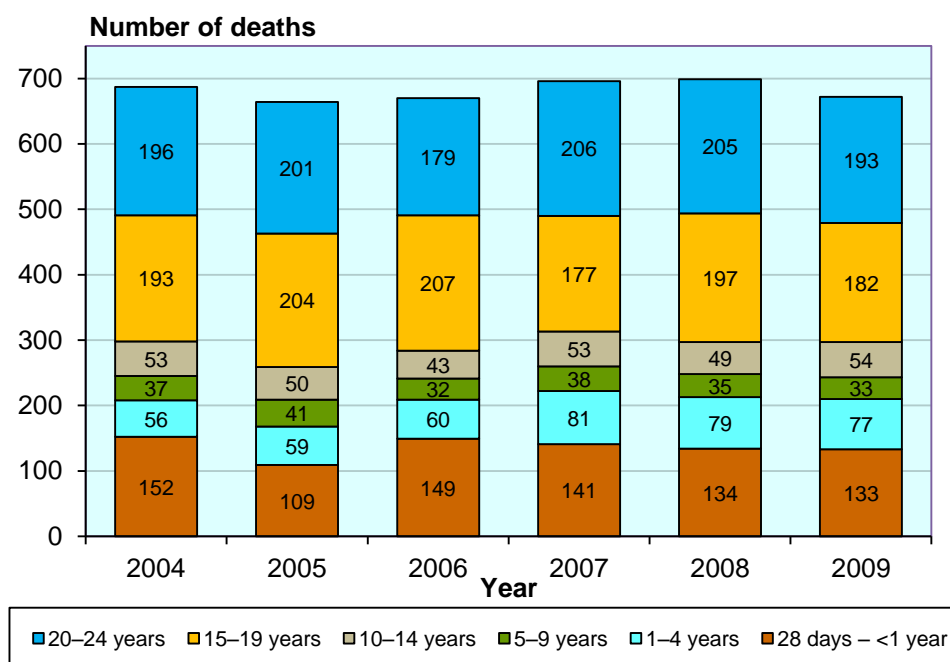
Source: Numerator Mortality Review Database; Denominator Statistics NZ Estimated Resident Population

Table 1.3: Mortality (number of deaths) in children and young people aged 28 days to 24 years by age group and year of death, New Zealand 2004–2009 (n=4088 deaths)

Category	2004	2005	2006	2007	2008	2009	Total	Percentage (%)
28 days - <1 year	152	109	149	141	133	133	817	20.0
1-4 years	56	59	60	81	80	77	413	10.1
5-9 years	37	41	32	38	35	33	216	5.3
10-14 years	53	50	43	53	49	54	302	7.4
15-19 years	193	204	207	177	197	182	1160	28.4
20-24 years	196	201	179	206	205	193	1180	28.9
<b>Total</b>	<b>687</b>	<b>664</b>	<b>670</b>	<b>696</b>	<b>699</b>	<b>672</b>	<b>4088</b>	<b>100.0</b>

Source: Mortality Review Database

Figure 1.2: Mortality (number of deaths) in children and young people aged 28 days to 24 years and 364 days by age group and year of death, New Zealand 2004–2009 (n=4088 deaths)



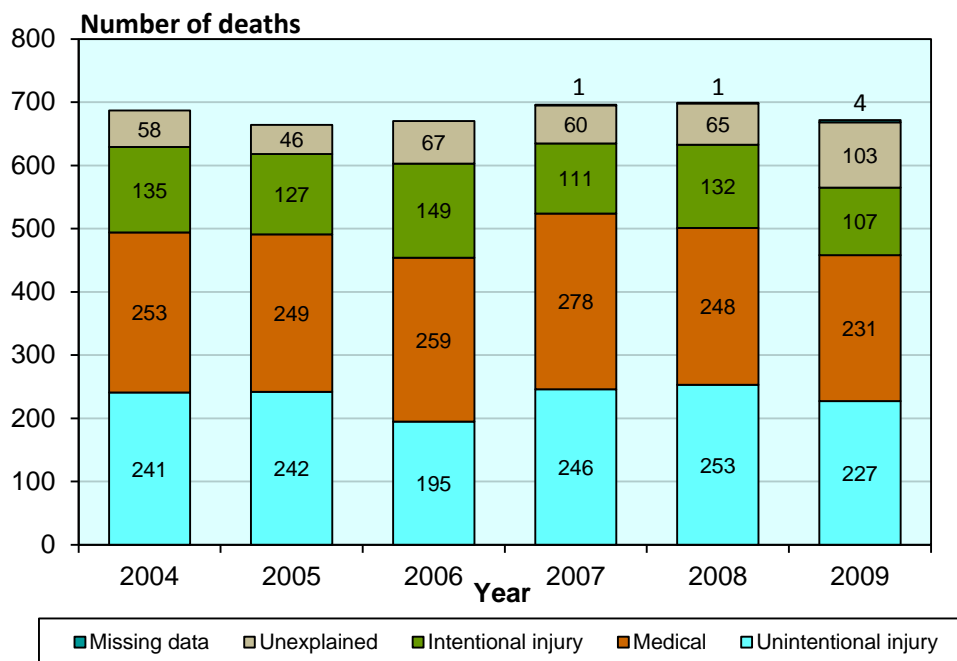
Source: Mortality Review Database

Table 1.4: Mortality (number of deaths) in children and young people aged 28 days to 24 years by cause and year of death, New Zealand 2004-2009 (n=4088 deaths)

Category	2004	2005	2006	2007	2008	2009	Total	Percentage (%)
<b>Medical</b>	253	249	259	278	248	231	1518	37.1
<b>Unintentional injury</b>	241	242	195	246	253	227	1404	34.3
<b>Intentional injury</b>	135	127	149	111	132	107	761	18.6
<b>Unexplained</b>	58	46	67	60	65	103	399	9.8
<b>Missing data</b>	-	-	-	1	1	4	6	0.1
<b>Total</b>	<b>687</b>	<b>664</b>	<b>670</b>	<b>696</b>	<b>699</b>	<b>672</b>	<b>4088</b>	<b>100.0</b>

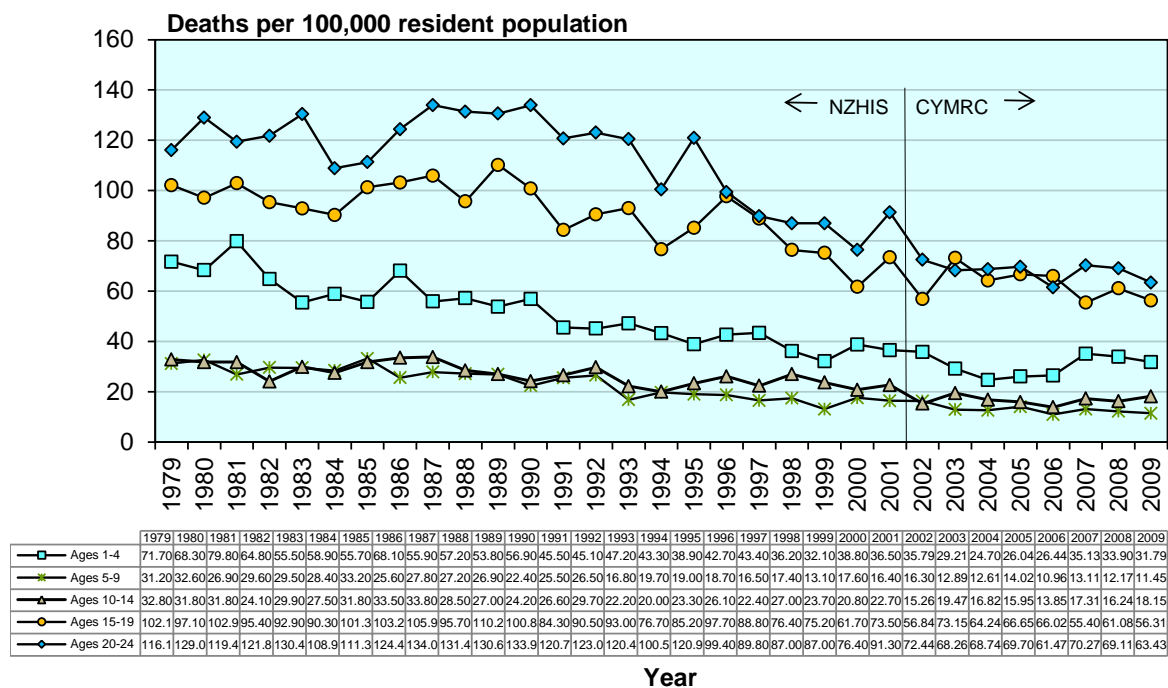
Source: Mortality Review Database

Figure 1.3: Mortality (number of deaths) in children and young people aged 28 days to 24 years by cause and year of death, New Zealand 2004-2009 (n=4088 deaths)



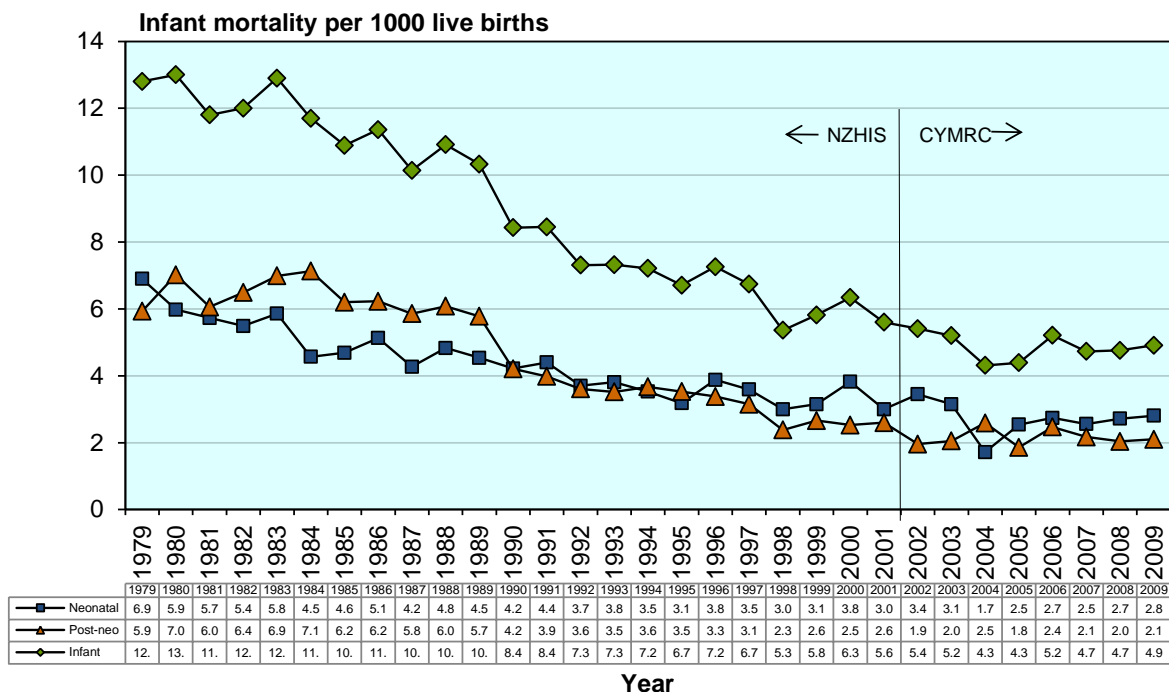
Source: Mortality Review Database

Figure 1.4: Mortality (age-specific rates per 100,000 resident population) by age group (excluding post-neonatal mortality), New Zealand 1979-2009



Source: Numerator NZHIS pre-2002 data, Mortality Review Database 2002-2009 data; Denominator Statistics NZ Estimated Resident Population

Figure 1.5: Infant, neonatal and post-neonatal mortality (age specific rates per 1000 live births) in children 0\* days to 1 year of age, New Zealand 1979-2009



\* Neonatal rates (for deaths 0 days - 27 days) for 2002-2009 taken from PMMRC reporting extracts; pre-2002 neonatal rates from NZHIS

Source: Numerator NZHIS pre-2002 data, Mortality Review Database 2002-2009 data; Denominator Statistics NZHIS Live Births

In the following age-group sections, main causes of death (Pie Chart and Table) are shown, followed by long-term trends in the rates of death in the target age group, followed by a description of rates by year for Māori compared with all other ethnicities.