Children aged 28 days - less than 1 year

The main causes of death in the post-neonatal period (28 days to less than 1 year) are shown in Figure 2.1 and Table 2.1. In these analyses, SUDI refers to unexplained sudden infant death (ICD code R95) and includes accidental suffocation and strangulation in bed (ICD code W75). The longterm trend over time of infant mortality, as well as its two subdivisions neonatal (first 27 days of life) and post-neonatal (1-12 months of life) mortality is shown in Figure 2.2. The sudden decrease in post-neonatal mortality that occurred in 1990 was in the year following the national "back to sleep" campaign. The disparity in death rate between Māori and non-Māori over the last 6 years is shown in Figure 2.3.

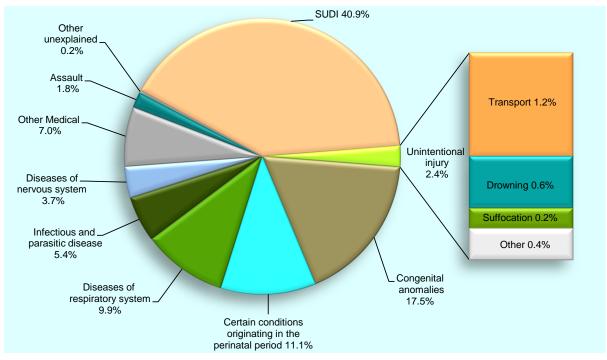


Figure 2.1: Mortality (%) in children and young people ages 28 days to less than 1 year by cause of death, New Zealand 2004-2009 (n=817 deaths)

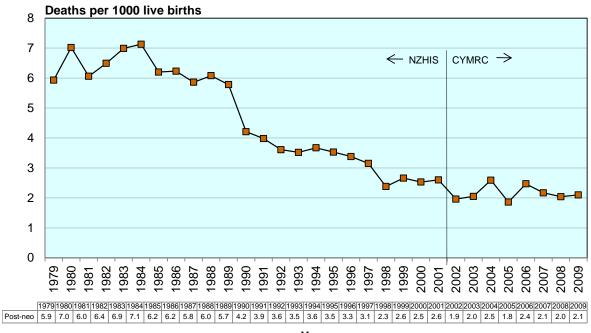
Source: Mortality Review Database

Table 2.1: Post-neonatal mortality (number of deaths and rates per 1,000 live births) by cause and by year, New Zealand 2004-2009 (n=817 deaths)

Interctions and parasitic disease 10 4 7 7 9 44 5.4 0.12 Diseases of the blood and blood-forming organs and diseases 1 2 3 2 4 - 3 14 5.4 0.12 Diseases of the blood and blood-forming organs and diseases - 1 2 1 - 1 3 12 1.5 0.03 Diseases of the blood and blood-forming organs and diseases - - - - - - - - 0.03 3.7 0.03 Diseases of circulatory system -		2004	2005	2006	2007	2008	2009	Total	Ŷ	Average rate	
Necplans 2 3 2 4 - 3 14 1.7 0.04 Diseases of the blod and heldod-form 3 1 1 1 1 6 0.7 0.03 Diseases of nervous system 3 6 7 4 4 4 3 12 1.3 0.03 Diseases of nervous system 3 6 7 4 4 4 3 3 12 1.3 0.03 Diseases of nervous system 2 3 2 4 4 4 0.3 0.03 Diseases of respiratory system 2 1 15 10 8 81 9, 9 0.23 Diseases of quicoxining system 2 1 15 13 16 9 13 19 15 13 14 1.1 0.24 Diseases of quicoxining system 2 13 19 15 13 13 13 14 13 13 14	Medical										
Disease of the blood and blood-forming organs and disorders of immune system bedocrine, nutritional and metabolic diseases 2 1 - 1 1 1 6 0.02 Mental and behavioural disorders Diseases of the eye and adness e an interposity process diseases - <t< td=""><td>Infectious and parasitic disease</td><td>10</td><td>4</td><td>7</td><td>7</td><td>7</td><td>9</td><td>44</td><td>5.4</td><td>0.12</td></t<>	Infectious and parasitic disease	10	4	7	7	7	9	44	5.4	0.12	
organs and disorders of immune system 2 1 - 1 1 1 1 0 0.02 Mental and behavioural disorders 1 2 1 4 1 3 12 1.5 0.03 Diseases of nervous system 5 6 7 4 4 4 30 3.7 0.03 Diseases of the ver and matched process 2 3 2 4 4 4 4 0.03 3.7 0.03 Diseases of circulatory system 2 3 2 4 4 4 4 0.0 3.7 0.03 Diseases of dipative system 2 3 2 4 4 4 4 0.0 0.02 Diseases of genitourinary system 1 - 1 - 1 - 1 - 1 0.1 0.01 Diseases of genitourinary system 7 21 22 27 21 15 19 16 91 <th< td=""><td>Neoplasms</td><td>2</td><td>3</td><td>2</td><td>4</td><td>-</td><td>3</td><td>14</td><td>1.7</td><td>0.04</td></th<>	Neoplasms	2	3	2	4	-	3	14	1.7	0.04	
Organs and displayers of inture system Redoctine, nutritional and metabolic diseases 1 2 1 4 1 3 12 1.5 0.03 Marial and behavioural disorders - </td <td></td> <td>2</td> <td>1</td> <td>-</td> <td>1</td> <td>1</td> <td>1</td> <td>6</td> <td>0.7</td> <td>0.02</td>		2	1	-	1	1	1	6	0.7	0.02	
diseases 1 2 1 4 1 3 12 1.3 0.03 Diseases of nervous system 5 6 7 4 4 4 30 3.7 0.08 Diseases of nervous system 2 2 3 2 4 4 4 4 90 3.7 0.08 Diseases of circulatory system 2 2 3 2 4 3 16 9.0 0.00 Diseases of dipesite system 2 1 15 15 10 8 81 9.9 0.22 Diseases of dipesite system 1 -1 -1 -1 -1 4 -1 </td <td></td>											
Piseases of nervous system 5 6 7 4 4 4 30 3.7 0.08 Diseases of the eye and addexa - <t< td=""><td></td><td>1</td><td>2</td><td>1</td><td>4</td><td>1</td><td>3</td><td>12</td><td>1.5</td><td>0.03</td></t<>		1	2	1	4	1	3	12	1.5	0.03	
Diseases of the eye and adness - <	Mental and behavioural disorders	-	-	-	-	-	-	-		-	
piecesses of ear and mastelid process -	-	-				-					
Diseases of circulatory system 2 2 3 2 4 3 16 2.0 0.049 Diseases of dispative system 2 11 15 15 15 16 8 99.9 0.22 Diseases of digitive system - <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-										
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Diseases of skin and subcutaneous tissue -		22	11	15	15	10	8	81	9.9	0.22	
Diseases of musuloskeletal system and pregnancy, whildbirth and the purperium (ertain conditions originating in the perinatal portiod congenital anomalies symptoms a banomal findings not elsewhere classified unknown 1 - 1 - - 1 - 1 3 0.44 0.01 Ymegnancy, whildbirth and the purperium certain conditions originating in the perinatal anomalies Symptoms a banomal findings not elsewhere classified Unknown 1 - 1 - 1 - 1 3 0.44 0.01 Total medical 84 63 81 80 72 64 460 54.6 1.0 Wateres effect of medication or treatment dustament -								-			
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perinatal period <	Pregnancy, childbirth and the puerperium	-	-	-	-	-	-	-	-	-	
Congenital anomalies Symptoms a chonomal findings not elsewhere classified Unknown 27 21 25 27 25 18 143 17.5 0.39 Total medical 84 63 81 80 72 66 446 54.6 1.20 External cause unknown Adverse effect of medication or treatment Health system error Cut/pierce Drowning Fire/Durn/heat/smoke -		9	13	19	15	19	16	91	11.1	0.24	
Symptoms & abnormal findings not elsewhere classified unknown I <thi< th=""> <thi< th=""> I I</thi<></thi<>		27	21	25	27	25	18	143	17 5	0.39	
elsewhere classified -	5										
Total medical 84 63 81 80 72 66 446 54.6 1.20 External cause unknown Adverse effect of medication or treatment - <td>elsewhere classified</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	elsewhere classified	-	-	-	-	-	-	-	-	-	
External cause unknown Adverse effect of medication or treatment Health system error Cut/pierce i	Unknown	-	-	-	-	-	-	-	-	-	
External cause unknown - <td>Total medical</td> <td>84</td> <td>63</td> <td>81</td> <td>80</td> <td>72</td> <td>66</td> <td>446</td> <td>54.6</td> <td>1.20</td>	Total medical	84	63	81	80	72	66	446	54.6	1.20	
Adverse effect of medication or treatment - - 1 - - 1 0.1 0.00 Health system error Cut/pierce -	Unintentional injury										
treatment - - 1 -		-	-	-	-	-	-	-	-	-	
Health system error -		-	-	1	-	-	-	1	0.1	0.00	
Cut/pierce -		_	_	_	_	_	_	_	_	_	
Fall -	-	-	-	-	-	-	-	-	-	-	
Fire/burn/heat/smoke 1 - - - - 1 0.1 0.00 Firearm -	Drowning	1	1	-	3	-	-	5	0.6	0.01	
Firearm - </td <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td>			-			-	-				
Machinery Transport -			_				_				
Transport 4 - 1 2 3 - 10 1.2 0.03 Natural/environmental/animal -		-	-	-		-	-				
Overexertion/travel/privation - <t< td=""><td>-</td><td>4</td><td>-</td><td>1</td><td>2</td><td>3</td><td>-</td><td>10</td><td>1.2</td><td>0.03</td></t<>	-	4	-	1	2	3	-	10	1.2	0.03	
Poisoning - - - - - - - - - - - - - - - 1 0.1 0.00 0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 - - 1 - - 1 - 1 0.1 0.00 0.01 0.01 0.01 0.01 0.01 - - 1 - - 1 1 - - 0.2 0.2 0.2 0.01 -<							-				
Struck by, against 1 - - - - - 1 0.1 0.00 Suffocation - - - 1 - 1 2 0.2 0.01 Electrocution 7 1 2 6 3 1 20 2.4 0.05 Total unintentional injury 7 1 2 6 3 1 20 2.4 0.05 Assault Suicide - - - - 1 1 2 2.4 0.05 Suicide 6 1 4 1 1 2 15 1.8 0.04 Total intentional injury 6 1 4 1 1 2 15 1.8 0.04 Suicide - - - - 1 1 2 16 1 - Motione 65 14 62 54 57 62 334 40.9 0.10 0.00 Other - - - -							-				
Suffocation - - - 1 - 1 2 0.2 0.01 Electrocution 7 1 2 6 3 1 20 2.4 0.05 Total unintentional injury 7 1 2 6 3 1 20 2.4 0.05 Intertional injury Assault 5 1 4 1 1 2 15 1.8 0.04 Suicide 6 1 4 1 1 2 15 1.8 0.04 Total intentional injury 6 1 4 1 1 2 15 1.8 0.04 Suicide 6 1 4 1 1 2 15 1.8 0.04 Total intentional injury 6 1 4 5 1 1 18 0.04 Other 55 44 62 54 57 62 334 40.9 0.10 0.00 Total unexplained 55 44 62<	2										
Total unintentional injury 7 1 2 6 3 1 20 2.4 0.05 Intertional injury Assault suicide 6 1 4 1 1 2 15 1.8 0.04 Total intentional injury 6 1 4 1 1 2 15 1.8 0.04 SUDI Other 6 1 4 1 1 2 15 1.8 0.04 Total unexplained 6 1 4 1 1 2 15 1.8 0.04 Total intentional injury 6 1 4 1 1 2 15 1.8 0.04 SUDI Other 55 44 62 54 57 62 334 40.9 0.00 0.00 Total unexplained 55 44 62 54 57 63 335 41.0 0.90			-	-	1	-	1				
Interference Interference <th< td=""><td>Electrocution</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></th<>	Electrocution	-	-	-	-	-	-	-	-	-	
Assault Suicide 6 - 1 - 4 - 1 - 1 - 2 - 15 - 1.8 - 0.04 - Total intentional injury 6 1 4 1 1 2 15 1.8 - 0.04 SUDI Other 6 1 4 1 1 2 15 1.8 - 0.04 SUDI Other 55 44 - 62 54 57 - 62 - 334 - 40.9 - 0.90 0.00 0.90 0.00 Total unexplained 55 44 - 62 54 57 - 63 335 - 41.0 0.90 0.00 0.90 0.00 Missing Data 61 - - - - 1 1 0.1 0.00	Total unintentional injury	7	1	2	6	3	1	20	2.4	0.05	
Suicide - </td <td colspan="11"></td>											
SUDI Other 55 44 62 54 57 62 334 40.9 0.90 Total unexplained 55 44 62 54 57 63 335 41.0 0.90 Missing Data - - - - - 1 1 0.1 0.00									1.8	0.04	
SUDI Other 55 44 62 54 57 62 334 40.9 0.90 0.00 Total unexplained 55 44 62 54 57 63 335 41.0 0.90 Missing Data - - - - 1 1 0.1 0.00	Total intentional injury	6	1	4	1	1	2	15	1.8	0.04	
Other - - - - 1 1 0.1 0.00 Total unexplained 55 44 62 54 57 63 335 41.0 0.90 Missing Data - - - - - 1 1 0.1 0.00	Unexplained										
Total unexplained 55 44 62 54 57 63 335 41.0 0.90 Missing Data - - - - 1 1 0.1 0.00											
Total 152 109 149 141 133 133 817 100.0 2.20	Missing Data	-	-	-	-	-	1	1	0.1	0.00	
	Total	152	109	149	141	133	133	817	100.0	2.20	

Source: Numerator Mortality Review Database; Denominator NZHIS Live Births

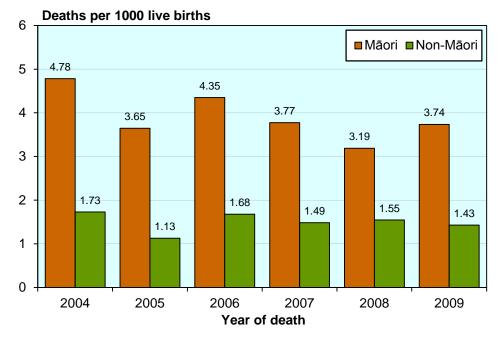
Figure 2.2: Post-neonatal mortality (rates per 1000 live births) in children (28 days to 1 year of age), New Zealand 1979-2009



Year

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

Figure 2.3: Post-neonatal mortality (rates per 1000 live births), Māori and non-Māori, New Zealand 2004-2009 (n=817 deaths)



Source: Numerator Mortality Review Database; Denominator NZHIS Live Births