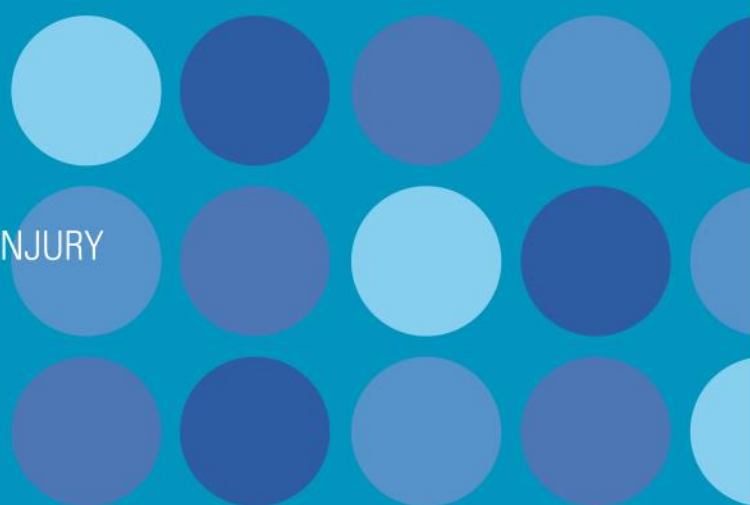


CHILD DEATH & SERIOUS INJURY
REVIEW COMMITTEE



South Australian Child Deaths 2015

ADDITIONAL STATISTICAL INFORMATION



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Rates of child death, South Australia 2005-15

Year	All Children		Resident Children	
	Number	Rate ¹ per 100 000	Number	Rate ¹ per 100 000
2005	131	37.9	118	34.1
2006	117	33.8	108	31.2
2007	121	34.7	115	33.0
2008	113	32.3	103	29.4
2009	125	35.6	120	34.1
2010	115	32.6	114	32.3
2011	104	29.5	99	28.0
2012	98	27.6	93	26.2
2013	109	30.5	99	27.7
2014	96	26.7	90	25.1
2015	86	23.9	82	22.8
2005-15	1215	31.3	1140	29.4

1Rates have been calculated using ABS population estimates for children between 0-17 years. See Section 4.16 of the CDSIRC Annual Report 2015-16.
Caution interpreting trends over time is advised due to the exclusion of deaths in 2015 not yet registered with the Office of Births, Deaths and Marriages, and several coronial deaths where the cause of death was not known by 30th June 2016.
Source: Child Death and Serious Injury Review Committee

Demographics of child death, South Australia 2005-15

	2005– 09	2010– 11	2012– 13	2014– 15	2005-15	Rate ¹ per 100 000 2005– 2015
Total	607	219	207	182	1215	31.3
Sex						
Female	265	87	91	78	521	27.5
Male	342	132	116	104	694	35.0
Age Group						
Infants (<1 year) ²	348	125	119	102	694	319.7
1-4 years	81	31	30	26	168	20.0
5-9 years	38	18	15	18	89	8.4
10-14 years	44	14	19	19	96	8.8
15-17 years	96	31	24	17	168	24.6
Cultural Background						
Aboriginal	63	21	32	26	142	105.5
Contact with Families SA³						
Families SA	150	66	54	52	322	
Usual Residence						
Outside SA	43	7	15	10	75	
Socioeconomic Background (SEIFA IRSD)⁴						
Most disadvantaged SEIFA 5	182	72	64	60	378	38.8
SEIFA 4	132	47	38	32	249	29.2
SEIFA 3	107	45	44	31	227	33.9
SEIFA 2	76	31	23	31	161	22.7
Least disadvantaged SEIFA 1	67	17	23	18	125	18.8
Remoteness (ARIA)⁴						
Major City	372	137	126	114	749	27.0
Inner Regional	68	28	21	27	144	31.3
Outer Regional	83	41	38	22	184	37.2
Remote and Very Remote	41	6	7	9	63	44.4
¹ Rates have been calculated using ABS population estimates for children between 0-17 years. See Section 4.16 of the CDSIRC Annual Report 2015-16. ² The infant mortality rate is calculated per 100 000 live births. See Section 4.16 of the CDSIRC Annual Report 2015-16. ³ Death rates for Families SA are not included. See Section 4.16 of the CDSIRC Annual Report 2015-16. ⁴ South Australian residents only included. Source: Child Death and Serious Injury Review Committee database						

Causes of child death by year, South Australia 2005-15

Causes of Death	2005–09	2010–11	2012–13	2014–15	2005-15	Rate ¹ per 100 000 2005-15
Certain conditions originating in the perinatal period	161	65	67	50	343	8.8
Congenital malformations, deformations and chromosomal abnormalities	99	27	33	27	186	4.8
Transport	65	19	16	20	120	3.1
Undetermined	43	22	13	14	92	2.4
Cancer	44	13	15	17	89	2.3
Diseases of the nervous system	38	18	9	11	76	2.0
Accident*	29	5	9	5	48	1.2
Suicide	15	8	11	5	39	1.0
Deliberate Acts	21	5	3	2	31	0.8
Endocrine, nutritional and metabolic diseases	13	8	4	5	30	0.8
Drowning	16	6	3	2	27	0.7
Diseases of the circulatory system	10	4	7	5	26	0.7
Diseases of the respiratory system	9	7	6	3	25	0.6
Certain infectious and parasitic diseases	11	5	2	3	21	0.5
SIDS	7	2	4	4	17	0.4
Heath-system related	13	2	1	0	16	0.4
Fire-related	5	2	1	1	9	0.2
Neglect	5	0	1	0	6	0.2
Diseases of the musculoskeletal system & connective tissue	2	0	1	0	3	0.08
Diseases of the digestive system	1	1	0	0	2	0.05
Diseases of the eye and adnexa	0	0	0	1	1	0.03
Diseases of the genitourinary system	0	0	1	0	1	0.03
Cause not yet known	0	0	0	7	7	
Total	607	219	207	182	1215	31.3

¹ Rates have been calculated using ABS population estimates for children between 0-17 years. See Section 4.16 of the CDSIRC Annual Report 2015-16.
Source: Child Death and Serious Injury Review Committee database

Causes of child death by age group, South Australia 2005-15

Causes of Death	< 28 days	28 days – 1 year	1-4 years	5-9 years	10-14 years	15–17 years	Total	Rate ¹ per
								100 000
2005-15								
Certain conditions originating in the perinatal period	302	33	4	1	1	2	343	8.8
Congenital malformations, deformations and chromosomal abnormalities	107	42	14	10	7	6	186	4.8
Cancer	2	3	27	25	17	15	89	2.3
Diseases of the nervous system	8	19	16	10	15	8	76	2.0
Endocrine, nutritional and metabolic diseases	4	4	8	4	3	7	30	0.8
Diseases of the circulatory system	1	10	5	4	3	3	26	0.7
Diseases of the respiratory system	0	6	4	5	6	4	25	0.6
Certain infectious and parasitic diseases	3	12	3	0	2	1	21	0.5
Diseases of the musculoskeletal system & connective tissue	0	1	0	0	1	1	3	0.08
Diseases of the digestive system	0	1	0	0	1	0	2	0.05
Diseases of the eye and adnexa	0	0	0	0	1	0	1	0.03
Diseases of the genitourinary system	0	0	1	0	0	0	1	0.03
Illness and Disease	427	131	82	59	57	47	803	20.7
Transport	2	3	22	12	19	62	120	3.1
Undetermined	12	65	11	2	0	2	92	2.4
Accident*	2	14	9	6	7	10	48	1.2
Suicide	0	0	0	0	2	37	39	1.0
Deliberate Acts	1	6	15	1	2	6	31	0.8
Drowning	0	3	15	5	2	2	27	0.7
SIDS	0	17	0	0	0	0	17	0.4
Health-system related*	3	2	5	2	2	2	16	0.4
Fire-related	0	0	6	1	2	0	9	0.2
Neglect	0	2	2	0	2	0	6	0.2
External Causes	8	30	74	27	38	119	296	7.6
Cause not yet known	0	4	1	1	1	0	7	
Total	447	247	168	89	96	168	1215	31.3

1 Rates have been calculated using ABS population estimates for children between 0-17 years. See Section 4.16 of the CDSIRC Annual Report 2015-16.
* Three cases of accidents or health system related events were coded by the Child Death and Serious Injury Review Committee as due to natural causes.
Source: Child Death and Serious Injury Review Committee database

**Demographics of child death attributed to illness or disease, South Australia
2005-15**

	2005– 09	2010– 11	2012– 13	2014– 15	2005-15	Rate ¹ per 100 000 2005– 2015
Total	389	150	145	122	806	20.8
Sex						
Female	176	62	66	55	359	19.0
Male	213	88	79	67	447	22.5
Age Group						
Infants (<1 year) ²	274	100	103	82	559	257.5
1-4 years	39	16	15	13	83	9.9
5-9 years	23	13	11	12	59	5.6
10-14 years	25	11	11	10	57	5.2
15-17 years	28	10	5	5	48	7.0
Cultural Background						
Aboriginal	33	15	18	17	83	61.7
Contact with Families SA³						
Families SA	74	34	21	26	155	
Usual Residence						
Outside SA	30	7	11	6	54	
Socioeconomic Background (SEIFA IRSD)⁴						
Most disadvantaged SEIFA 5	103	49	41	33	226	23.2
SEIFA 4	90	33	25	19	167	19.6
SEIFA 3	70	30	34	25	159	23.7
SEIFA 2	51	20	16	24	111	15.7
Least disadvantaged SEIFA 1	45	11	18	15	89	13.4
Remoteness (ARIA)⁴						
Major City	246	99	91	82	518	18.7
Inner Regional	44	16	12	17	89	19.4
Outer Regional	51	25	26	12	114	23.0
Remote and Very Remote	18	3	5	5	31	21.9
<p>1 Rates have been calculated using ABS population estimates for children between 0-17 years. See Section 4.16 of the CDSIRC Annual Report 2015-16.</p> <p>2 The infant mortality rate is calculated per 100 000 live births See Section 4.16 of the CDSIRC Annual Report 2015-16.</p> <p>3 Death rates for Families SA are not included. See Section 4.16 of the CDSIRC Annual Report 2015-16.</p> <p>4 South Australian residents only included.</p>						
Source: Child Death and Serious Injury Review Committee database						

Child death attributed to undetermined causes, 1-17 year olds

A child's death is attributed to an undetermined cause when, after consideration of all information, no one manner of death is more compelling than other possible causes. For information about the deaths of infants attributed to undetermined causes, see section 2.5.1.

In the period between 2005 and 2015:

- ***There were 15 deaths of children aged 1-17 years attributed to undetermined causes***
- ***Undetermined causes were attributed more often to deaths of 1-4 year olds (11 deaths) than 5-17 year olds (4 deaths)***
- ***All deaths of 1-4 year olds attributed to undetermined causes occurred after they were placed to sleep.***

Demographics of child death for external causes, South Australia 2005-15

	2005– 09	2010– 11	2012– 13	2014– 15	2005-15	Rate ¹ per 100 000 2005– 2015
Total	168	45	45	35	293	7.6
Sex						
Female	67	18	18	13	116	6.1
Male	101	27	27	22	177	8.9
Age Group						
Infants (<1 year) ²	32	2	3	0	37	17.0
1-4 years	37	14	11	11	73	8.7
5-9 years	13	5	4	5	27	2.6
10-14 years	19	3	8	8	38	3.5
15-17 years	67	21	19	11	118	17.3
Cultural Background						
Aboriginal	21	3	9	7	40	29.3
Contact with Families SA³						
Families SA	53	18	24	18	113	
Usual Residence						
Outside SA	13	0	4	2	19	
Socioeconomic Background (SEIFA IRSD)⁴						
Most disadvantaged SEIFA 5	53	12	15	14	94	9.6
SEIFA 4	35	11	7	7	60	7.0
SEIFA 3	30	10	8	3	51	7.6
SEIFA 2	22	9	6	6	43	6.1
Least disadvantaged SEIFA 1	15	3	5	3	26	3.9
Remoteness (ARIA)⁴						
Major City	93	22	25	17	157	5.7
Inner Regional	16	10	8	6	40	8.7
Outer Regional	25	11	7	7	50	10.1
Remote and Very Remote	21	2	1	3	27	19.0
<p>¹ Rates have been calculated using ABS population estimates for children between 0-17 years. See Section 4.16 of the CDSIRC Annual Report 2015-16.</p> <p>² The infant mortality rate is calculated per 100 000 live births. See Section 4.16 of the CDSIRC Annual Report 2015-16.</p> <p>³ Death rates for Families SA are not included. See Section 4.16 of the CDSIRC Annual Report 2015-16.</p> <p>⁴ South Australian residents only included.</p>						
Source: Child Death and Serious Injury Review Committee database						

Child death coded using ICD-10

Deaths have also been coded using the World Health Organization's (WHO) international Classification of Diseases (Version 10: ICD-10). Using this coding system, the underlying cause of death is considered the primary cause of death for classification.¹

Rates have been calculated using ABS population estimates for children between 0-17 years. See Section 4.16 of the CDSIRC Annual Report 2015-16.

Source: Child Death and Serious Injury Review Committee database

¹ WHO ICD-10 Second Edition, 2005, 4. Rules and guidelines for mortality and morbidity coding. http://www.who.int/classifications/icd/ICD10Volume2_en_2010.pdf?ua=1

Child death by ICD-10 chapter, South Australia 2005-15

ICD-10 Chapter Description	Number of deaths per year				2005-15	Rate per 100 000 2005-15
	2005-09	2010-11	2012-13	2014-15		
Illness or Disease (Natural Causes)						
Certain infections and parasitic diseases (A00-B99)	11	5	2	3	21	0.5
Neoplasms (C00-D48)	44	13	15	17	89	2.3
Endocrine, nutritional and metabolic diseases (E00-E90)	15	8	4	5	32	0.8
Diseases of the nervous system (G00-G99)	39	18	10	11	78	2.0
Diseases of the eye and adnexa (H00-H59)	1	0	0	1	2	0.05
Diseases of the circulatory system (I00-I99)	11	4	7	5	27	0.7
Diseases of the respiratory system (J00-J99)	10	7	6	3	26	0.7
Diseases of the digestive system (K00-K93)	3	1	0	0	4	0.1
Diseases of the musculoskeletal system and connective tissue (M00-M99) or Diseases of the genitourinary system (N00-N99)	4	0	1	0	5	0.1
Certain conditions originating in the perinatal period (P00-P96)	165	65	68	50	348	9.0
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	102	27	33	27	189	4.9
Illness or Disease	405	148	146	122	821	21.2
SIDS and Undetermined Causes Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	48	23	17	18	106	2.7
External Causes						
Transport-related (V01-V99)	69	18	17	20	124	3.2
Falls (W00-W19)	3	2	1	1	7	0.2
Exposure to inanimate mechanical forces (W20-W49)	7	0	3	3	13	0.3
Accidental drowning and submersion (W65-W74)	13	6	3	2	24	0.6
Other accidental threats to breathing (W75-W84)	18	6	4	2	30	0.8
Exposure to electrical current, radiation, extreme air temperature or pressure (W85-W99)	0	0	0	1	1	0.03
Exposure to smoke fire and flames (X00-X09)	2	2	1	1	6	0.2
Accidental poisoning by exposure to noxious substance (X40-X49)	5	2	2	0	9	0.2
Accidental exposure to other unspecified factors (X58-X59)	1	1	0	0	2	0.05
Intentional self harm (X60-X84)	9	5	8	4	26	0.7
Assault (X85-Y09)	17	3	3	1	24	0.6
Event of undetermined intent (Y10-Y34)	8	1	0	0	9	0.2
Medical devices associated with adverse incidents (Y70-Y82)	1	2	1	0	4	0.1
External Causes	153	48	43	34	278	7.2
Cause not yet known	1	0	0	7	8	
All Deaths – Total	607	219	207	182	1215	31.3

