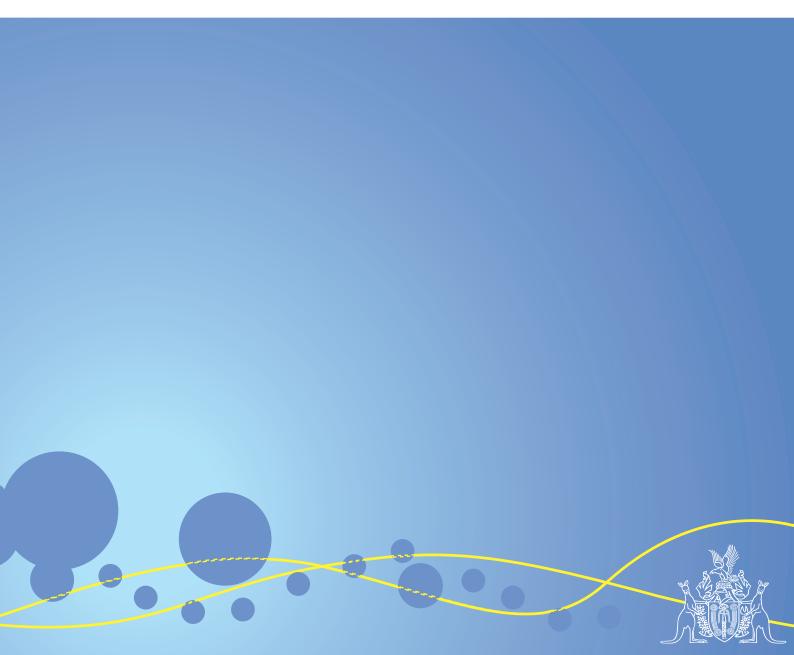


Northern Territory Child Deaths Review and Prevention Committee Annual Report 2015-2016



Northern Territory Child Deaths Review and Prevention Committee

The NT Child Deaths Review and Prevention Committee respects the beliefs of Aboriginal and Torres Strait Islander people and advises there is information in this report regarding deceased Aboriginal and Torres Strait Islander children.

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The Honourable Dale Wakefield MLA Minister for Territory Families Parliament House Mitchell Street DARWIN NT 0800

Dear Minister

I am pleased to provide you with the Annual Report of the Northern Territory Child Deaths Review and Prevention Committee for 2015–2016, in accordance with section 213 of the *Care and Protection of Children Act 2007*.

Yours sincerely,

Ms Colleen Gwynne Convenor NT Child Deaths Review and Prevention Committee 31 October 2016

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Northern Territory Child Deaths Review and Prevention Committee

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Committee secretariat

Ms Marg Sullivan, Executive Assistant, Office of the Children's Commissioner Ms Helena Gibbons, Consultant

Glossary of terms

ABS	Australian Bureau of Statistics
AGD	Department of the Attorney-General and Justice, NT
AIFS	Australian Institute of Family Studies
ANZCDR&PG	Australia and New Zealand Child Death Review and Prevention Group
ASGC	ABS Australian Standard Geographical Classification
BDM	Northern Territory Office of the Registrar of Births, Deaths and Marriages
CDR	Child Deaths Register
CDRPC	Child Deaths Review and Prevention Committee
COD	Cause of Death
Committee	Child Deaths Review and Prevention Committee
Coroner	Office of the NT Coroner
DCF	Department of Children and Families, NT
DoH	Department of Health, NT
ICD-10 AM	International Statistical Classification of Diseases and Related Health
	Problems, Tenth Revision – Australian Modified
LGA	Northern Territory Local Government Areas
Menzies	Menzies School of Health Research
NCIS	National Coronial Information System
NSW	New South Wales
NT	Northern Territory
Qld	Queensland
Register	Child Deaths Register
SUDI	Sudden Unexpected Death in Infancy
SIDS	Sudden Infant Death Syndrome
the Act	Care and Protection of Children Act 2007
UCOD	Underlying Cause of Death
WHO	World Health Organisation

Definitions

Aboriginal

The following definition is provided for the term Aboriginal in section 13 of the Act:

Aboriginal means: (a) a descendant of the Aboriginal peoples of Australia; or (b) a descendant of the Indigenous inhabitants of the Torres Strait Islands.

Throughout this report the term Aboriginal will be used for people of either Aboriginal or Torres Strait Islander descent except where specific reference is being made to publications that use other terminology, for example, the ABS which often uses the term Indigenous.

Cause of death (COD)

All those diseases, morbid conditions, or injuries which either resulted in or contributed to death and the circumstances of the accident or violence which produced such injuries.¹

Child

Section 13 of the Act defines child as (a) a person aged seventeen years and under; or (b) a person apparently less than 18 years of age if age cannot be proved.

Child death

Section 208 of the Act defines child death as (a) the death of a child who usually resided in the Territory (whether the death occurred in the Territory or not); or (b) a stillbirth as defined in the *Births, Deaths and Marriages Registration Act* that occurred in the Territory.

Greater Darwin

Greater Darwin incorporates the City of Darwin, the City of Palmerston and the Litchfield Shire.

Congenital malformations

Congenital malformations, including deformities and chromosomal abnormalities, are physical and mental conditions present at birth that are either hereditary or caused by environmental factors.

Infancy

The infancy period extends from birth to 12 months of age. An infant death is the death of a live born child under 1 year of $age.^2$

Neonatal

The neonatal period extends from birth to 28 days of age. A neonatal death is the death of a live born baby within 28 days of birth.³

¹ World Health Organisation (2008), *ICD-10 International Statistical Classification of Diseases and Related Health Problems, 10th Revision, Volume 2 Instruction Manual,* 33-34.

² Abeywardana, S. & Sullivan, E.A. (2008). Congenital anomalies in Australia 2002–2003. Birth anomalies series no. 3. Cat. no. PER 41. Sydney: Australian Institute of Health and Welfare National Perinatal Statistics Unit.

³ Laws, P.J. & Hilder, L. (2008). Australia's mothers and babies 2006. Perinatal statistics series no. 22.Cat. no. *PER 46. Sydney: Australian Institute of Health and Welfare National Perinatal Statistics Unit.*

Perinatal

The perinatal period extends from 20 weeks gestation to 28 days following birth. A perinatal death is a fetal death (of at least 20 weeks gestation or at least 400 grams birthweight⁴) or a neonatal death (of a live born baby within 28 days from birth).

Post-neonatal

The post-neonatal period is the period from 28 days to 1 year of age.

Rest of the NT

Rest of the NT incorporates those areas outside the City of Darwin, the City of Palmerston and the Litchfield Shire.

Stillbirth (fetal death)

In accordance with section 4 of the *Births Deaths and Marriages Registration Act*, a stillbirth means the birth of a still-born child, which is defined as a child of at least 20 weeks gestation or with a body mass of at least 400 grams at birth that exhibits no sign of respiration or heartbeat, or other sign of life, after birth.⁵

Sudden unexpected death in infancy (SUDI)

SUDI (also described as Sudden Unexpected Infant Death, SUID), is a term used for all unexpected infant deaths, whether the explanation is immediate, determinable after a thorough examination, or remains unknown. At one point all unexplained SUDI deaths were labelled as Sudden Infant Death Syndrome, SIDS.

Underlying cause of death (UCOD)

(a) the disease or injury which initiated the train of morbid events leading directly to death; or (b) the circumstances of the accident or violence, which produced the fatal injury (WHO).⁶

In Australia, the perinatal period commences at the 20th completed week of gestation and ends 28 completed days after birth. Perinatal deaths are a combination of stillbirths and neonatal deaths (as defined in the NT *Births, Deaths and Marriages Registration Act*).

⁴ Ibid.

⁵ Ibid.

⁶ op cit.

Foreword

This is the eighth Annual Report of the Northern Territory Child Deaths Review and Prevention Committee. The report is based on information provided to the Committee on the 38 deaths of children whose usual place of residence is the NT and of 35 stillbirths that occurred during the calendar year 2015. The report also provides summary information on 242 child and infant deaths that occurred in the five-year period 2011-15.

The death of any child is a tragedy and the members of the Committee extend their sincere condolences to the family, friends and communities of the children and young people cited in this report. In highlighting the circumstances relating to these deaths and by conducting research based on identified patterns and trends, the Committee's objective is to effect change that will prevent and reduce child deaths, accidents and diseases in the NT.

In addition to providing an analysis of the child and infant deaths that occurred during 2015 and the preceding four years, this report provides information on injury related child deaths released by the NT Child Deaths Review and Prevention Committee and tabled in Parliament.

Ms Colleen Gwynne Convenor NT Child Deaths Review and Prevention Committee 31 October 2016

Executive summary

Background and overview of the Committee activities

The Committee is established pursuant to Part 3.3 of the *Care and Protection of Children Act* (the Act). The purpose of the child deaths review process undertaken by the Committee is to assist in the prevention and reduction of child deaths in the Northern Territory. It achieves this through:

- (a) maintaining a database on child deaths;
- (b) conducting research about child deaths, diseases and accidents involving children; and
- (c) contributing to the development of appropriate policy to deal with such deaths, diseases and accidents.

The Committee's specific functions are set out in the Act (see Appendix 1).

Some of the activities that the Committee has undertaken this reporting year include:

- (d) action on issues arising from the on-going quality assurance of the Child Deaths Register (the Register);
- (e) the finalisation of one literature review.

Issues relating to child deaths data in the NT

Chapter 2 examines contextual factors and sources of data for the work of the Committee. This includes data obtained from national bodies such as the Australian Bureau of Statistics (ABS) and the National Coroners Information System (NCIS), which provide data on child deaths and demographics.

The primary source of data on child deaths is obtained from the Office of the Registrar of Births, Deaths and Marriages (BDM) which also provides data on stillbirths in the NT. Other sources such as medical records from the Department of Health (DoH) and documents held by the Office of the NT Coroner provide additional detail relating to individual deaths.

Other issues include the following:

- Although this is the Committee's 2015-16 Annual Report, the focus is on child deaths for the calendar year 2015 with a further overview of calendar years 2011-15.
- Presentation of data is based on the actual year of death rather than the year of registration of the death which is used by some other agencies (e.g. ABS);
- ICD-10-AM codes are used for classifying the cause of death in line with the practice of most other similar committees within Australia;
- For all child deaths that involved a review by the NT Coroner, the delivery of coronial findings follows a thorough coronial investigation to determine a cause of death before it is reported to BDM. This may take months, possibly years to complete these investigations, hence the delay in reporting these deaths;
- The need to obtain additional data beyond that supplied by BDM;
- The need to canvas other jurisdictions including BDM registries in other states and territories, for information on the deaths of NT children that occurred interstate.

Child deaths in the NT, 2011-15

Chapters 3 and 4 provide data on the deaths of children whose usual place of residence is the NT. The data for 2015 is current but it is important to view data aggregated over five years when determining trends or interpreting changes.

2015 snapshot

• **38** deaths of children whose usual place of residence is in the NT,

20 (52.6%) were male; **18** (47.4%) were female;

29 (76.3%) were Aboriginal; 9 (23.7%) were non-Aboriginal

25 (65.8%) were from outside the Greater Darwin area.

- 23 (60%) of the 38 were infant deaths; 3 (8%) were 1 to 4 year olds, 1 (3%) was a 5 to 9 year old, 6 (16%) were 10 to 14 year olds and 5 (13%) were 15 to 17 year olds.
- Of the 23 infant deaths, 12 (51.2%) were male and 11 (47.8%) were female;
 17 (73.9%) were Aboriginal and 6 (26.1%) were non-Aboriginal.
- Of the 23 infant deaths, 15 (65.2%) were neonatal (under 1 month old) deaths, of which 11 (73.3%) were Aboriginal and 4 (26.7%) were non-Aboriginal.
- In addition, 35 stillbirths were registered as having occurred in the NT: 16 (45.7%) were male and 19 (52.3%) female; 15 (42.9%) were Aboriginal and 20 (57.1%), non-Aboriginal.
- There were 50 perinatal (35 stillbirths + 15 neonatal) deaths registered in the NT;
 26 (52%) were Aboriginal and 24 (48%) were non-Aboriginal.

2011-15 aggregate snapshot

• 242 deaths of children who were usually resident in the NT:

128 (52.9%) were male and **114** (47.1%) were female;

180 (74.4%) were Aboriginal and 62 (25.6%) were non-Aboriginal

171 (71%) were from outside the urban Greater Darwin area.

- 129 (53.3%) were infants; 31 (12.8%) were 1 to 4 years old, 13 (5.4%) were 5 to 9 years old, 30 (12.4%) were 10 to 14 years old and 39 (16.1%) were 15 to 17 years old.
- Of the 129 infant deaths, 69 (53.5%) were male and 60 (46.5%) were female;
 94 (72.9%) were Aboriginal and 35 (37.1%) were non-Aboriginal.
- Of the 129 infant deaths, 86 were neonates, under one month of age of which 62 (72.1%) were Aboriginal and 24 (27.9%), non-Aboriginal.
- In addition, 162 stillbirths were registered in the NT: 87 (53.7%) were male and 75 (46.3%) female. 81 (50%) were Aboriginal and 81 (50%) were non-Aboriginal.
- There were therefore 248 perinatal (162 stillbirths + 86 neonatal) deaths, registered in the NT, 143 (57.7%) were Aboriginal and 105 (42.3%) were non-Aboriginal.
- The child death rate for the NT was 76.5 per 100,000 children, comprising rates of 138 and 33 per 100,000 for Aboriginal and non-Aboriginal children respectively. This gives a rate ratio of 4.18; the death rate of NT Aboriginal children compared with NT non-Aboriginal children.
- The infant death rate for the NT was 683.95 deaths per 100,000 infants comprising rates of 1,479 and 284 per 100,000 infants for Aboriginal and non-Aboriginals infants respectively, a rate ratio of 5.2.

- A breakdown of child deaths by usual residence shows that the number of child deaths in the Rest of the NT (70.7%) is disproportionately higher than deaths in Greater Darwin (29.3%) even though the population is similar in these two areas.
- Of the **242** child deaths, **62** (25.6%) were from families known to the Department of Children and Families (DCF).
- Of the 227 child deaths for which detailed information is available, the most common causes of death (in 72 or 31.7% of deaths) occurred within the 'external causes of morbidity and mortality' category; these deaths are considered to be preventable. The second most common cause of death (71 or 31.3% of deaths) were those classified in the 'certain conditions originating in the perinatal period' category.

CHAPTER 1 - Introduction

Introduction

This is the Child Deaths Review and Prevention Committee's (CDRPC or Committee) eighth annual report. It provides information related to the deaths of 38 children under the age of 18 years whose usual place of residence is in the Northern Territory (NT) and 35 stillbirths registered in 2015. The report also includes information on child deaths and stillbirths from 2011 to 2015 for comparative and historical purposes.

Functions of the Committee

The Committee's functions are:

- to establish and maintain the Child Deaths Register;
- to conduct or sponsor research into child deaths, diseases and accidents involving children and other related matters (such as childhood morbidity and mortality), whether alone or with others;
- to make recommendations on the research into child deaths, diseases and accidents;
- to monitor the implementation of the recommendations;
- to raise public awareness in relation to:
 - (i) the death rates of children;
 - (ii) the causes and nature of child deaths and diseases and accidents involving children;
 - (iii) the prevention or reduction of child deaths, diseases and accidents;
- to contribute to any national database on child deaths in Australia;
- to enter into an arrangement for sharing of information with anyone in Australia who has functions similar to those of this Committee;
- to perform any other functions as directed by the Minister in relation to the object of this legislative provision.

At the end of each financial year the Committee is required to prepare a report about the operation of the Committee during that financial year. Should the Committee conduct or sponsor research about issues identified as being relevant to child deaths in the NT, the resulting report must also be presented to the Minister. The Minister is required to table the Committee's Annual Report and research report/s in the Legislative Assembly.

The Committee is required by legislation to conduct at least three meetings a year. For the financial year 2015-16 the Committee held three meetings and has therefore fulfilled this statutory requirement.

The Child Deaths Register

Under the *Care and Protection of Children Act*, there is a statutory obligation for the CDRPC to establish and maintain a Child Deaths Register (the Register). The Register contains information relating to the deaths of children and young people under the age of 18 years whose usual place of residence is the NT. Section 208 of the Act defines a child death as:

- a) the death of a child who usually resided in the Territory (whether the death occurred in the Territory or not); or
- b) a stillbirth as defined in the *Births, Deaths and Marriages Registration Act* that occurred in the Territory.

The Register contains information related to date of birth, date of death, date of registration, age, gender, Aboriginal and Torres Strait Islander status, place of birth, place of death, usual

place of residence and family details. Information is also gathered in relation to the underlying causes of deaths and external factors which may have contributed to the death. Information in the Register is predominantly sourced from data held by a number of NT government agencies, including the Department of the Attorney-General and Justice (AGD), Registry of Births Deaths and Marriages (BDM), Office of the NT Coroner, Department of Health (DoH) and Department of Children and Families (DCF). Information is also provided by government funded health clinics and private medical centres.

Information relating to the deaths interstate of children whose usual place of residence is the NT, is sourced either from child death registers of other jurisdictions or the respective state or territory BDMs. Due to a number of legislative impediments preventing some jurisdictions sharing identifiable information relating to child deaths, including children whose usual place of residence is in the Northern Territory, it is not possible to report on these deaths.

Activities of the Committee

Research

A function of the CDRPC is to conduct or sponsor research aimed at preventing and reducing child deaths in the NT.

Literature Review

<u>Prevention of unintentional injury and death in childhood: A selective review of evidence on</u> <u>unintentional injury, parental supervision and prevention of deaths among Northern Territory</u> children.

A literature review was carried out on injury related child deaths by the NT Child Deaths Review and Prevention Committee and deemed in Parliament on 27 June 2016. Current rates of injury among the NT's children are a matter of great concern.

Recent data show that the rate of injury deaths amongst children in the NT between 2001 and 2013 was five times the rate for the rest of Australia over that period. Moreover, child injury deaths have recently increased in the NT in contrast to declining rates across the rest of the country.

Rates are highest for Aboriginal children and are significantly higher in remote regions than in urban centres. The NT is the only jurisdiction in Australia where the rate of child injury deaths is greater for girls than boys. Hospitalisations and deaths caused by injury range from assault – in which the NT has the highest rates of hospitalisation of any Australian jurisdiction – as well as drownings, motor vehicle related injuries, poisoning, burns, playrelated deaths and many other causes.

The focus of the report is on the sensitive issue of parental supervision in relation to childhood injury deaths. Factors attributed to inadequate supervision of children need to be better understood in order to target strategies for prevention through monitoring and education. Current services and policies do not adequately address childhood injury as a consequence of poor parental or family supervision. Evidence suggests that delivery of injury prevention counselling through primary health care is inadequate and unsystematic and can be improved. Safety practices are often poorly understood and access to and use of safety equipment and resources is low in many communities.

According to Professor Gary Robinson of the Menzies School of Health Research, the lead author of the report, childhood injury and deaths caused by injury have been a hidden problem in the NT that has not received the attention it deserves.

The report recommends a strengthening of injury prevention counselling and education in primary health care, and targeted education among high risk groups relating to specific risks such as use of car seat restraints along with community education to reduce the incidence of childhood injury.

National representation and engagement

The CDRPC has representation on the Australian and New Zealand Child Deaths Review and Prevention Group (ANZCDR&PG), which comprises representatives from all the Australian jurisdictions and New Zealand.

The aim of the ANZCDR&PG is to identify, address and potentially decrease the number of infant and children deaths by the sharing of information across jurisdictions and working collaboratively to improve national and international reporting.

CHAPTER 2 - Issues relating to child death data in the Northern Territory

Sources of data on child deaths

Australian Bureau of Statistics

The Australian Bureau of Statistics (ABS) publishes a series of reports and tables on deaths that occur in all Australian jurisdictions.

There are a number of other limitations with the ABS data, which include: the time lag between the recorded date of death with the NT BDM Registry and the publication of the ABS reports, only the medical causes of death are recorded and not the related risks such as the social factors that may have contributed to the deaths. The ABS child death tables do not provide data for each individual year of age so 15, 16 and 17 year olds, for example, are included in the 15-19 age grouping.

Registry of Births, Deaths and Marriages

The Department of the Attorney-General and Justice's (AGD) Registry of Births, Deaths and Marriages provides details of all child deaths occurring in the NT such as name, residence, date of birth, age, gender, Aboriginal or Torres Strait Islander status, date and place of death and where available the cause of death.

The Registry of Births, Deaths and Marriages also provides information relating to stillbirths in the NT including date and place of birth, gestation age and gestation weight.

The National Coroner's Information System

The Committee obtains information such as Coronial Findings, Autopsy Reports, Toxicology Reports and Police Reports related to reportable deaths in the NT from the National Coroner's Information System (NCIS).

Office of the NT Coroner

The Office of the NT Coroner provides information to NCIS related to deaths of children deemed to be reportable under provisions contained in the *Coroner's Act.*

A reportable death is defined as a death that:

- appears to have been unexpected, unnatural or violent;
- appears to have resulted, directly or indirectly from an accident or injury;
- occurred during an anaesthetic or as a result of an anaesthetic and is not due to natural causes;
- occurred when a person was held in, or immediately before death, was held in care or custody;
- was caused or contributed to by injuries sustained while the person was held in custody;
- is of a person whose identity is unknown;
- and in certain other circumstances.

The death of a child that is considered to have occurred whilst being in care or custody includes those circumstances:

- where the child or young person is deemed to be 'in care' in accordance with provisions contained in the *Care and Protection of Children Act;* or
- where the child or young person is an involuntary patient under the *Mental Health* and *Related Services Act*, whether in hospital or temporarily removed from hospital; or
- if the young person's death occurs in a detention centre approved under the Youth Justice Act.

Other sources of data

Doctor issued death certificates and other relevant information required by the Committee is provided by the Department of Health (DoH) and other health service providers.

Confidentiality of information

The *Care and Protection of Children Act* contains provisions that help ensure the confidentiality of information obtained by the Committee in the exercising of its statutory responsibilities. It is an offence under the Act for a person to disclose, or use information obtained as part of the performance of their functions.

The Act allows for the disclosure of information for the purposes of research; as part of an inquiry or investigation conducted by Police or a Coroner; to a court or tribunal, or where otherwise required or authorised by law.

Coding cause of death

The Committee uses the International Statistical Classification of Diseases and Related Health Problems, (ICD-10 which was developed by the World Health Organisation, WHO) to code the underlying and multiple causes of death. The ICD-10 is designed to promote international compatibility in the collection, processing, classification and presentation of morbidity and mortality statistics. ICD-10-AM (Australian Modified) 9th Edition has been modified to ensure that the classification is current and appropriate for Australian clinical practice whilst ensuring that international compatibility is maintained.

Calendar year reporting

The Committee has elected to report on child deaths based on the calendar year as opposed to the financial year. The majority of other Australian jurisdictions use the same reporting period.

CHAPTER 3 - Child deaths in the Northern Territory

This chapter provides statistical data related to child deaths in the calendar year 2015 and for the period 2011-15. The data includes demographic details relating to age, gender, Aboriginal status, and underlying cause of death and whether the child and/or a sibling is known to the child protection system. Updated data is used in the present report so there may be some variations in the data reported for previous years.

Child deaths rates

A child death rate is a measure that adjusts the number of deaths for differences in the population size. Child death rates are reported as the number of deaths per 100,000 population of children, with the exception of the number of deaths in infancy which are reported per 1000 live births. Both child death rates and infant death rates are standard units of measurement. Rates within age groups are reported, as age-group specific rates (number of deaths per 100,000 populations).

Child deaths in 2015

Child deaths by age group, NT, 2015

There were 38 child deaths registered in 2015. The highest number of deaths (23 or 60%) occurred during infancy, with 3 (8%) deaths in the 1 to 4 year age group, 1 (3%) in the 5 to 9 years age group, 6 (16%) 10 to 14 years and 5 (13%) in the 15 to 17 years age group.

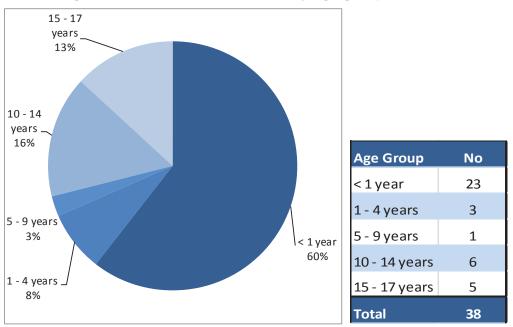


Figure 1: Number of child deaths by age group, NT, 2015

Child deaths by age group and gender, NT, 2015

Females accounted for 18 (47.4%) of the child deaths with 20 (52.6%) being males. There was no significant difference between male (20) and female (18) deaths in any age group.

Age Group	Female	Male	Total
< 1 year	11	12	23
1 - 4 years	1	2	3
5 - 9 years		1	1
10 - 14 years	3	3	6
15 - 17 years	3	2	5
Total	18	20	38

Source: NT Child Deaths Register

Child deaths, 2011-15

Between 1 January 2011 and 31 December 2015, a total of 242 deaths of children normally resident in the NT were registered in the NT.

Child deaths by year, gender and age group, NT, 2011-15

The majority of child deaths over the five year period occurred during infancy (129 deaths or 53.3% of all child deaths). The age group with the second largest number of deaths was the 15-17 years age group (39 or 16.1%), while the 5-9 years age group had the fewest number of deaths (13, 5.4%).

Males made up 51.8% of all children in the NT population (ABS 2015), and accounted for similar proportion 52.9% of all child deaths over these years.

Year ar	nd Gender	< 1 year	1 - 4 years	5 - 9 years	10 - 14 years	15 - 17 years
2011	Female	11	5	2	2	3
	Male	26	3	2	3	5
	Subtotal	37	8	4	5	8
2012	Female	13	2	3	2	2
	Male	10	4	1	3	6
	Subtotal	23	6	4	5	8
2013	Female	17	3		4	5
	Male	11	4	1	2	5
	Subtotal	28	7	1	6	10
2014	Female	8	4	1	4	5
	Male	10	3	2	4	3
	Subtotal	18	7	3	8	8
2015	Female	11	1		3	3
	Male	12	2	1	3	2
	Subtotal	23	3	1	6	5
Total	Female	60	15	6	15	18
	Male	69	16	7	15	21
	Total	129	31	13	30	39

Table 2: Child deaths by year, gender and age group, NT, 2011-15

Source: NT Child Deaths Register,

Totals may differ from last year's report due to late registrations and interstate deaths

Child deaths by year, Aboriginal status and age group, NT, 2011-15

In all years, from 2011 to 2015, the number of deaths of Aboriginal children was substantially greater than the number for non-Aboriginal children. During this period there was a total of 180 deaths of Aboriginal children, or 74.4% of all child deaths, which is much greater than the proportion of Aboriginal children (41%) in the total NT population for these age groups. Twenty-nine (76.3%) of the child deaths were of Aboriginal children and nine (23.7%) were non-Aboriginal children.

Year and	Aboriginal				10 - 14	15 - 17	Total
Status		< 1 year	1 - 4 years	5 - 9 years	years	years	(%)
2011	Aboriginal	28	6	4	4	8	50 (80.6)
	Non-Aborigin	9	2		1		12 (19.4)
	Subtotal	37	8	4	5	8	62 (100)
2012	Aboriginal	16	5	3	5	7	36 (78.3)
	Non-Aborigin	7	1	1		1	10 (21.7)
	Subtotal	23	6	4	5	8	46 (100)
2013	Aboriginal	19	5	1	3	6	34 (65.4)
	Non-Aborigin	9	2		3	4	18 (34.6)
	Subtotal	28	7	1	6	10	52 (100)
2014	Aboriginal	14	5	2	4	6	31 (70.4)
	Non-Aborigin	4	2	1	4	2	13 (29.6)
	Subtotal	18	7	3	8	8	44 (100)
2015	Aboriginal	17	2	1	5	4	29 (76.3)
	Non-Aborigin	6	1		1	1	9 (23.7)
	Subtotal	23	3	1	6	5	38 (100)
Total	Aboriginal	94	23	11	21	31	180 (74.4)
	Non-Aborigin	35	8	2	9	8	62 (25.6)
	Total	129	31	13	30	39	242 (100)

Table 3: Child deaths by year, Aboriginal status and age group, NT, 2011-15

Source: NT Child Deaths Register,

Totals may differ from last year's report due to late registrations and interstate deaths

Child deaths by usual residence, age group, gender and Aboriginal status, NT, 2011-15

Usual residence refers to the child's usual place of residence as recorded in the BDM register and reported by the parents or next of kin. For the purposes of this report, usual residence has been classified as either Greater Darwin or the Rest of the NT.

In the five year period from 2011 to 2015, the majority of child deaths (171 or 70.7%) occurred among children living outside Greater Darwin region, even though the proportion of NT child population are similar between Greater Darwin and the rest of NT. This difference was driven by the larger number of deaths of Aboriginal children most of whom are living outside the Greater Darwin area.

	NI, 2011-13			
	Usual Residence			
	Greater Darwin Rest of N			
Age Group	No. (%)	No. (%)		
< 1 year	39 (54.9)	90 (52.6)		
1 - 4 years	11 (15.5)	20 (11.7)		
5 - 9 years	5 (7)	8 (4.7)		
10 - 14 years	6 (8.5)	24 (14)		
15 - 17 years	10 (14.1)	29 (17)		
Total	71 (100)	171 (100)		
Aboriginal Status				
Aboriginal	28 (39.4)	152 (88.9)		
Non-Aboriginal	43 (60.6)	19 (11.1)		
Total	71 (100)	171 (100)		
Death Rates				
Child Deaths	29.3%	70.7%		
Child Population	51.5%	48.5%		

Table 4: Child deaths by usual residence, age group, gender and Aboriginal status,NT. 2011-15

Source: NT Child Deaths Register

NT population aged less than 18 years old (ABS 3235.0, 2015)

Child death rates by year, NT, 2011-15

In this report, population numbers for the denominator are based on ABS Estimated Resident Population data for single years – for children aged 0-17 years in the NT (ABS Cat. 3101.0, 2014). Given the relatively small number of deaths each year in the NT, aggregating data across five years provides a more reliable indicator of the underlying rates.

For the five year period from 2011 to 2015, there were a total of 242 deaths of NT children. The annualised death rate for this period was 76.5 deaths per 100,000 children. The annual rates are presented in Table 5 and Figure 2. There is significant year to year variation in the number of deaths and associated death rates. While there is the suggestion that annual NT death rates are falling, as presented in Figure 2, there may be additional deaths in recent years that have not yet been reported

Year	Number of Deaths	Rate #
2011	62	99.5
2012	46	73.1
2013	52	81.6
2014	44	69.0
2015	38	59.8
Total	242	76.5

Table 5: Child death rates by year, NT, 2011-15

Source: NT Child Deaths Register and ABS 3101, June 2015 # per 100,000 children

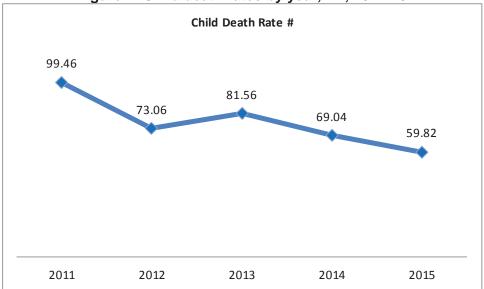


Figure 2: Child death rates by year, NT, 2011-15

Source: NT Child Deaths Register, and ABS 3101, June 2015 # per 100,000 children

Child death rates by age group, NT, 2011-15

Annualised age group specific death rates for the five year period are shown in Table 9. The infant death rate of 658.8 deaths per 100,000 infants reflects the large number of deaths, most in the neonatal period, that occur in this age group and were the majority of all NT child deaths. The second highest death rate is for the 15 to 17 years age group (80.6 deaths per 100,000 population) and lowest death rate is among those aged 5 to 9 years (14.6 deaths per 100,000 population).

Age Group	Number of Deaths	Rate
< 1 year	129	658.8
1 - 4 years	31	41.4
5 - 9 years	13	14.6
10 - 14 years	30	35.6
15 - 17 years	39	80.6
Total	242	76.5

Table 6: Child death rates by age group, NT, 2011-15

Source: NT Child Deaths Register and ABS Cat 3101, June 2015 # per 100,000 children

Child death rates by age group and gender, NT, 2011-15

Of the total of 242 deaths, 128 (52.9%) were male and 114 (47.1%) were female. The respective rates were 78.1 for males and 74.8 for females for an overall rate of 76.4 per 100,000 children. The annualised infant death rate across the 5 year period was 690.9 per 100,000 infants (6.9 per 1,000) for males and 625.3 (6.2 per 1,000) for females. Rates were higher for males in most age groups.

	Ma	le	Fem	ale	
Age Group	Number of _ Deaths		Number of Deaths	Rate #	
<1 year	69	690.9	60	625.3	
1 - 4 years	16	41.4	15	41.3	
5 - 9 years	7	15.3	6	13.9	
10 - 14 years	15	34.5	15	36.7	
15 - 17 years	21	81.1	18	80.0	
Total	128	78.1	114	74.8	

Source: NT Child Deaths Register and ABS Cat 3101, June 2015

[#] per 100,000 children

Some totals may differ from last year's report due to late registration and interstate deaths.

Infant deaths, 2011-15

Infant deaths by gender and Aboriginal status, NT, 2011-15

There were 129 infant deaths between 2011 and 2015 in the NT, with a slight majority (53.5%) of the total being males. A substantial majority (72.9%) were Aboriginal children.

Table 8: Infant deaths by gender and Aboriginal status, NT, 2011-15

Aboriginal Status	Female	Male	Total
Aboriginal	37	57	94
Ŭ	3,	07	51
Non-Aboriginal	23	12	35
Total	60	69	129
Percentage	46.50	53.50	100

Source: NT Child Deaths Register

Perinatal deaths by type, Aboriginal status and year, NT, 2011-15

Compared to other child age groups there is a substantially greater risk of death in the perinatal period and the Committee specifically monitors this period. Perinatal deaths are the combination of stillbirths and neonatal deaths. Table 6 presents the number of stillbirths and neonatal deaths in the NT Aboriginal and non-Aboriginal populations over the past five years. There was a total of 162 (65.3%) stillbirths and 86 (34.6%) neonatal deaths. Of all stillbirths, there were equal numbers of Aboriginal and non-Aboriginal babies (both 81). The majority of stillborn babies (90 or 57.3%) were male. In the same period there was a total of 86 neonatal deaths. The majority of neonatal deaths (72.1%) were of Aboriginal children, and again a small majority were male babies (46 deaths or 53.5% of all neonatal deaths).

Year Aboriginal Status Type of Death	2011	2012	2013	2014	2015	Total (%)
Aboriginal						
Neonatal	17	7	15	12	11	62.0
StillBirth	15	13	27	11	15	81.0
						143
Subtotal	32	20	42	23	26	(57.7)
Non-Aboriginal						
Neonatal	7	4	5	4	4	24.0
StillBirth	13	13	17	18	20	81.0
						105
Subtotal	20	17	22	22	24	(42.3)
						248
Total	52	37	64	45	50	(100)

Table 9: Perinatal deaths by type, Aboriginal status and year, NT, 2011-15

Source: NT Child Deaths Register

Individual totals may differ from last year's report due to late registration or interstate deaths

Post neonatal infancy by Aboriginal status and year, NT, 2011-15

Table 10 presents post-neonatal infant deaths over the recent five year period by Aboriginal status. Of the total number of deaths in this age group the majority were of Aboriginal children (72.7%) which is substantially greater than the proportion of Aboriginal children in this age group (approximately 40%) in the total NT population.

Year Post Neonatal	2011	2012	2013	2014	2015	Total
Aboriginal	11	9	4	2	6	32
Non-Aboriginal	3	3	4		2	12
Total	14	12	8	2	8	44

Table 10: Post neonatal infancy by Aboriginal status and year, NT, 2011-15

Source: NT Child Deaths Register

Deaths of children with a family involvement in child protection services, 2011-15

Children involved with the child protection system are considered to be a particularly vulnerable subgroup of the population. Given that the risk is often associated with families, it is prudent that child death committees consider the 'child protection' history of children who have died as well as that of their siblings, as an indicator of vulnerability.

A child is considered to be 'known' to the child protection system if an 'action' has been taken under Chapter 2 of the *Care and Protection of Children Act* to safeguard the wellbeing of the child. This 'action' by DCF can involve; receiving a child abuse notification, the assessing of child abuse notifications, child protection investigations, the undertaking of protective assessments, the provision of family support services, the taking out of statutory child protection orders, or the placement of a child into care.

The death of a child who is in the care of the Chief Executive Officer of DCF is required by law to be referred to the Office of the NT Coroner for him/her to make a finding on the child's death. In the present reporting period 2011-15 there have been 8 deaths of children who were on statutory orders. Of the total deaths, 2012 and 2014 each recorded 1 death and 2011, 2013, and 2015 each recorded 2 deaths. One death is yet to go to inquest, but of those deaths reviewed by the Coroner no adverse findings were related to the quality of care.

Characteristics of child death by known to DCF status, NT, 2011-15

Many of the children known to child protection services originate from families characterised by dysfunction, including domestic and family violence, alcohol, drug and volatile substance abuse, mental illness, and involvement with the criminal justice system.

Of the 242 recorded child deaths in the NT between 1 January 2011 up to 31 December 2015, 62 (26%) children were 'known' and 180 (74%) were 'not known' to the Department of Children and Families (DCF) within the three years prior to their death.

Of the 62 child deaths known to DCF, 26 had siblings who at some time also had involvement in the child protection system.

Of the 62 deaths of children known to DCF, 21 (8.7%) were in the <1 year age group; 2.5% in the 1 to 4 age range; 2.1% in 5 to 9 age range; 5.8% in the 10 to 14 age range; and 6.6% in the 15 to 17 year age range. The age distribution of this group is very different to deaths of children not known to DCF, most of which occurred in infancy.

Of the deaths of children involved in the child protection system, 55 (22.7%) were Aboriginal and 7 (2.9%) were non-Aboriginal.

Table 11: Characteristics of child death by known to DCF status, NT, 2011-15

Child Characteristics		Not known to DCF
	Number (%)	Number (%)
Gender		
Female	26 (41.9)	88 (48.9)
Male	36 (58.1)	92 (51.1)
Total	62 (100)	180 (100)
Aboriginal Status		
Aboriginal	55 (88.7)	125 (69.4)
Non-Aboriginal	7 (11.3)	55 (30.6)
Total	62 (100)	180 (100)
Location		
Greater Darwin	14 (22.6)	57 (31.7)
Rest of NT	48 (77.4)	123 (68.3)
Total	62 (100)	180 (100)
Age Group		
<1 year	21 (33.9)	108 (60.0)
1 - 4 years	6 (9.7)	25 (13.9)
5 - 9 years	5 (8.1)	8 (4.4)
10 - 14 years	14 (22.6)	16 (8.9)
15 - 17 years	16 (25.8)	23 (12.8)
Total	62 (100)	180 (100)

Source: NT Child Deaths Register

CHAPTER 4 - Underlying causes of child deaths in the Northern Territory, 2011-15

This section provides information about the UCOD for 227 of the 242 child deaths in this five year reporting period. At the time of this report, 1 death still requires cause of death coding and 14 are awaiting the outcome of coronial investigations. One of these deaths is from 2011, 1 from 2013, 2 from 2014 and the remaining 11 are from 2015.

Underlying cause of death by ICD-10 chapter and year, NT, 2011-15

Tables 12 to 15 provide a comparative breakdown of the UCOD by reporting years, gender and Aboriginal status, usual residence and age groups.

Table 12 details the underlying cause of death for children, which has been classified using the standard international coding system at broad chapter level. Of the total of 242 deaths the greatest number of deaths were from external causes (78 deaths) and 'conditions originating in the perinatal period' (70 deaths).

ICD-10-					la year			
AM Chapter	Code prefix	ICD-10-AM Chapter Descriptions	2011 (%)	2012 (%)	2013 (%)	2014 (%)	2015 (%)	Total (%)
No.	prenix		(70)	(//)	(//)	(/0)	(70)	(70)
1	A and B	Certain infectious and parasitic diseases	2	-	-	1	-	3 (1.2)
2	C and D	Neoplasms	2	1	-	2	1	6 (2.5)
4	E	Endocrine, nutritional and metabolic diseases	-	-	1	-	1	2 (0.8)
6	G	Diseases of the nervous system	5	3	1	1	-	10 (4.1)
8	Н	Diseases of the ear and mastoid process	-	1	-	-	-	1 (0.4)
9	I	Diseases of the circulatory system	1	-	-	-	-	1 (0.4)
10	J	Diseases of the respiratory system	2	2	3	-	-	7 (2.9)
16	Р	Certain conditions originating in the perinatal period	19	8	17	16	10	70 (28.9)
17	Q	Congenital malformations, deformations and chromosomal abnormalities	4	3	4	1	6	18 (7.4)
18	R	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	11	11	3	4	2	31 (12.8)
20	U-Y	External causes of morbidity and mortality	15	17	22	17	7	78 (32.2)
	Not yet coded	Awaiting coronial findings and/or cause of death*	1	-	1	2	11	15 (6.2)
	Total	Total	62	46	52	44	2	242 (100)

Table 12: Underlying cause of death by ICD-10 chapter and year, NT, 2011-15

Source: NT Child Deaths Register

Proportions may differ from last year's report due to updated numbers, late registrations etc.

Underlying cause of death by ICD-10 chapter, gender and Aboriginal status, NT, 2011-15

Table 13 presents the underlying cause of all deaths of children during the five year reporting period, by sex and by Indigenous status. For all sub-groups the leading coded causes of death were "deaths from external causes" and "certain conditions originating in the perinatal period".

Table 13 shows the UCOD by gender and Aboriginal status for the past five years. Overall, there were more male deaths (128) than female (114) and significantly more Aboriginal (180) than non-Aboriginal (62).

Table 13: Underlying cause of death by ICD-10 chapter, gender and Aboriginal status,
NT, 2011-15

N1, 201	Gen	der	Aborigin	al Status
				Non-
ICD-10-AM Chapter Description	Female	Male	Aboriginal	Aboriginal
Certain infectious and parasitic diseases	1	2	2	1
Certain mechous and parasitic diseases	(0.9)	(1.6)	(1.1)	(1.6)
Neoplasms	5	1	3	3
(Copidsins	(4.4)	(0.8)	(1.7)	(4.8)
Endocrine, nutritional and metabolic diseases	_	2	1	1
		(1.6)	(0.6)	(1.6)
Diseases of the nervous system	3	7	7	3
	(2.6)	(5.5)	(3.9)	(4.8)
Diseases of the ear and mastoid process	-	1	1	-
		(0.8)	(0.6)	
Diseases of the circulatory system	-	1	1	-
	4	(0.8)	(0.6)	1
Diseases of the respiratory system	4 (2 5)	3	6	(1, c)
Certain conditions originating in the perinatal	(3.5) 29	(2.3) 41	(3.3) 50	(1.6) 20
period	(25.4)	(32.0)	(27.8)	(32.3)
Congenital malformations, deformations and	9	9	13	5
chromosomal abnormalities	(7.9)	(7.0)	(7.2)	(8.1)
Symptoms, signs and abnormal clinical and	17	14	22	9
laboratory findings, not elsewhere classified	(14.9)	(10.9)	(12.2)	(14.5)
	35	43	62	16
External causes of morbidity and mortality	(30.7)	(33.6)	(34.4)	(25.8)
Awaiting coronial findings and/or cause of	11	4	12	3
death*	(9.6)	(3.1)	(6.7)	(4.8)
	114	128	180	62
Total	(100)	(100)	(100)	(100)

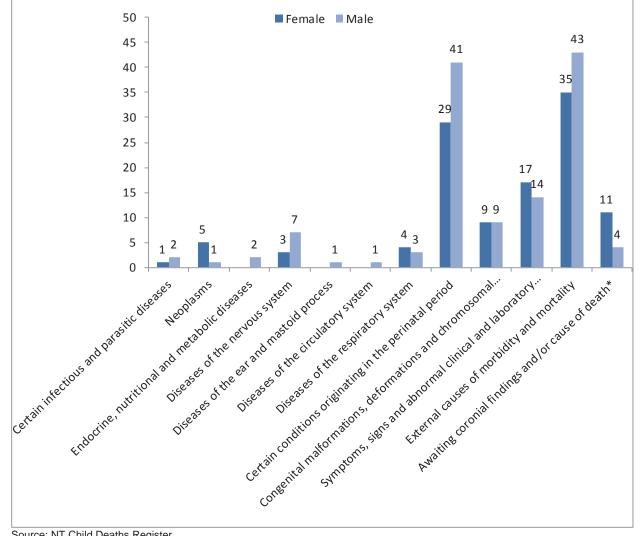
Source: NT Child Deaths Register

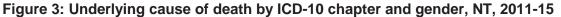
*includes 14 deaths which are still open coronial cases and 1 requiring ICD-10-AM coding

Seventy-eight deaths were due to 'external causes' of which 62 deaths were of Aboriginal children and 16 deaths were of non-Aboriginal children. Of these, 25 Aboriginal and 4 non-Aboriginal deaths were the result of intentional self-harm, 16 Aboriginal and 2 non-Aboriginal children died from motor vehicle-related accidents; and 6 Aboriginal and 5 non-Aboriginal children died from drowning.

Underlying cause of death by ICD-10 chapter and gender, and chapter and Aboriginal status, NT, 2011-15

Figures 3 and 4 provide a comparison by gender and Aboriginal status for each of the ICD-10-AM chapters. Males dominated in 7 of the 12 chapter categories, females dominated in 4 and both male and female were equally represented in 'Congenital malformations, deformations and chromosomal abnormalities'. Deaths of Aboriginal children were over-represented in 10 chapter categories apart from 'Endocrine, nutritional and metabolic diseases' and 'Neoplasms' where proportions of both Aboriginal and non-Aboriginals children were equally represented. With 24 cases still before the Coroner and one yet to be coded these comparisons could change.





Source: NT Child Deaths Register

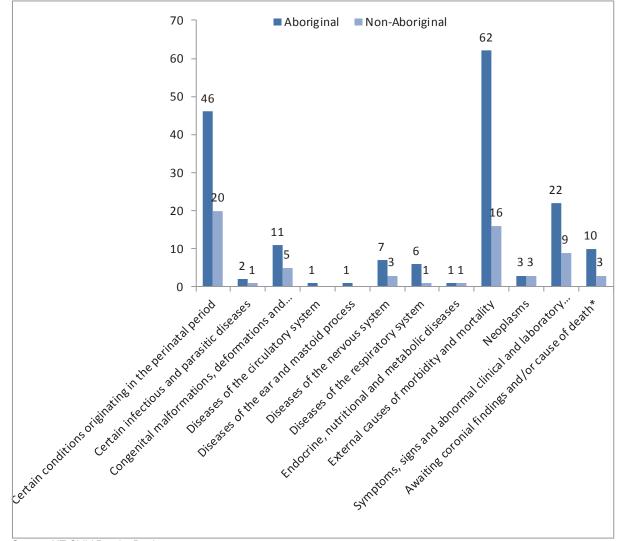


Figure 4: Underlying cause of death by ICD-10 chapter and Aboriginal status, NT, 2011-15

Source: NT Child Deaths Register

Underlying cause of death by ICD-10 chapter and usual residence, NT, 2011-15

Table 14 shows the UCOD by the usual residence of the deceased for the period 2011 - 2015 inclusive. Due to the small numbers of deaths, usual residence is categorised into the broader groupings of Greater Darwin area and the Rest of the NT to avoid the possibility of identifying individuals.

Table 14: Underlying cause of death by ICD-10 chapter and usual residence, NT,
2011-15

2011-13	Greater	
ICD-10-AM Chapter Description	Darwin	Rest of NT
	2	1
Certain infectious and parasitic diseases	(2.8)	(0.6)
Noonlasms	2	4
Neoplasms	(2.8)	(2.3)
Endocrine, nutritional and metabolic diseases	1	1
Endocrine, nutritional and metabolic diseases	(1.4)	(0.6)
Diseases of the nervous system	3	7
Discuses of the hervous system	(4.2)	(4.1)
Diseases of the ear and mastoid process	_	1
Discuses of the cul and mustora process		(0.6)
Diseases of the circulatory system	_	1
		(0.6)
Diseases of the respiratory system	-	7
		(4.1)
Certain conditions originating in the perinatal	21	49
period	(29.6)	(28.7)
Congenital malformations, deformations and	7	11
chromosomal abnormalities	(9.9)	(6.4)
Symptoms, signs and abnormal clinical and	9	22
laboratory findings, not elsewhere classified	(12.7)	(12.9)
External causes of morbidity and mortality	21	57
	(29.6)	(33.3)
Awaiting coronial findings and/or cause of	5	10
death*	(7.0)	(5.8)
Total	71	171
	(100)	(100)

Source: NT Child Deaths Register

Of the 242 child deaths recorded, 171 (70.7%) were from the Rest of the NT. The distribution of the causes of death were generally similar between the two areas, with the apparent exception of "diseases of the respiratory system" for which there were no deaths in Greater Darwin but 7 deaths in the Rest of the NT. In both Greater Darwin and the Rest of the NT the leading causes of death were 'conditions originating in the perinatal period" (29.6% and 28.7% respectively) and external causes (29.6% and 33.3%). Figure 5 provides a graphic representation of the same information.

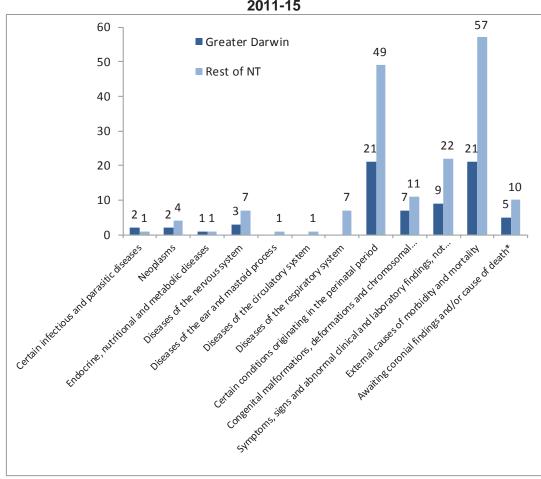


Figure 5: Underlying cause of death by ICD-10 chapter and usual residence, NT, 2011-15

Source: NT Child Deaths Register *includes 14 deaths which are still open coronial cases and 1 requiring ICD-10-AM coding

Underlying cause of death by ICD-10 chapter and age group, NT, 2011-15

Table 15 presents coded causes of death distributed by age group. The largest number of deaths in children aged less than 1 year was from 'conditions originating in the perinatal period' (69 or 53.5%), followed by 'symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified' (29, 22.5%), which includes Sudden Infant Deaths (SIDS) and Sudden Unexpected Death in Infancy (SUDI). After the first year of life the leading cause of death for all age groups was external causes. The 'external causes' chapter includes accidents and injuries and contains many potentially preventable causes of death

		To enapter and age group; MT; 2011				
ICD-10-AM Chapter Description	< 1 year	1 - 4	1 - 4 5 - 9 10 - 14		15 - 17	
	- i year	years	years	years	years	
Certain infectious and parasitic	1	1	_	_	1	
diseases	(0.8)	(3.2)	-	_	(2.6)	
	_	2	2	2	_	
Neoplasms		(6.5)	(15.4)	(6.7)		
Endocrine, nutritional and	_	2	_	_	_	
metabolic diseases		(6.5)				
	2	1	2	2	3	
Diseases of the nervous system	(1.6)	(3.2)	(15.4)	(6.7)	(7.7)	
Diseases of the ear and mastoid	_	1	-	-	-	
process		(3.2)				
Diseases of the circulatory	_	1	-	-	_	
system		(3.2)				
Diseases of the respiratory	5	1	-	-	1	
system	(3.9)	(3.2)			(2.6)	
Certain conditions originating in	69	1	-	-	-	
the perinatal period	(53.5)	(3.2)				
Congenital malformations,		-	-			
deformations and chromosomal	12	2	2	1	1	
abnormalities	(9.3)	(6.5)	(15.4)	(3.3)	(2.6)	
Symptoms, signs and abnormal		2				
clinical and laboratory findings,	29 (22.5)	2 (C.F)	-	-	-	
not elsewhere classified	(22.5)	(6.5)	7	22	20	
External causes of morbidity and	2	17	7	22	30	
mortality	(1.6)	(54.8)	(53.8)	(73.3)	(76.9)	
Awaiting coronial findings	9	-	-	3	3	
and/or cause of death*	(7.0)	21	12	(10.0)	(7.7)	
Total	129	31	13	30	39 (100)	
Total	(100)	(100)	(100)	(100)	(100)	

Table 15: Underlying cause of death by ICD-10 chapter and age group, NT, 2011-15

Source: NT Child Deaths Register

Proportions may differ from last year's report due to updated numbers, late registrations etc.

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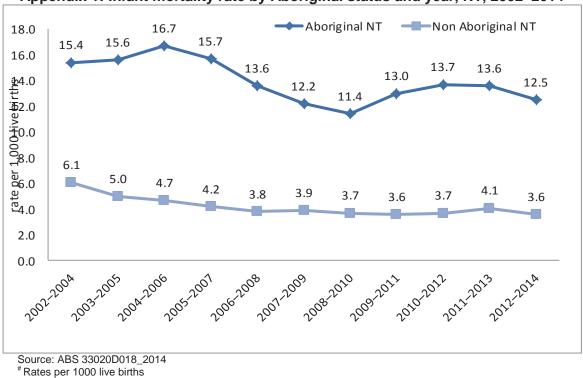
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Appendices



Appendix 1: Infant mortality rate by Aboriginal status and year, NT, 2002–2014

While single year Aboriginal rates may fluctuate due to small numbers, they are nevertheless a reliable indicator when viewed as a trend over many years. Appendix 1 shows the rate ratio of Aboriginal to non-Aboriginal infant mortality rates over the past two decades. The results show that on average, the Aboriginal rates are approximately 3 times greater than the non-Aboriginal rates.

Appendix 2: Table of underlying cause of child deaths by ICD-10 chapters, NT, 2011-15			
Chapter 1: Certain infectious and parasitic diseases (A00-B99)		3	
Sepsis due to Pseudomonas	1		
Staphylococcus aureus as the cause of diseases classified to other chapters	1		
Viral carditis	1		
Chapter 2: Neoplasms (C00-D48)		6	
Malignant neoplasm of adrenal gland, unspecified	1	Ū	
Malignant neoplasm of brain stem	1		
Malignant neoplasm of kidney, except renal pelvis	2		
Malignant neoplasm of lower lobe, bronchus or lung	1		
Malignant neoplasm of ovary	1		
Chapter 4: Endocrine, nutritional and metabolic diseases (E00-E99)		2	
Disorders of copper metabolism	1		
Other sphingolipidosis	1		
Chapter 6: Diseases of the nervous system (G00-G99)		10	
Bacterial meningitis, unspecified	1		
Cerebral palsy, unspecified	3		
Dyskinetic cerebral palsy	1		
Encephalitis, myelitis and encephalomyelitis, unspecified	1		
Epilepsy, unspecified, with intractable epilepsy	1		
Localisation-related (focal)(partial) idiopathic epilepsy and epileptic syndromes with			
seizures of localised onset, without mention of intractable epilepsy	1		
Muscular dystrophy	1		
Spastic quadriplegic cerebral palsy	1		
	-		
Chapter 8: Diseases of the ear and mastoid process (H60-H95)		1	
Other chronic suppurative otitis media	1		
Chapter 9: Diseases of the circulatory system (100-199)		1	
Infective pericarditis	1		
Chapter 10: Diseases of the respiratory system (J00-J99)		7	
Bronchopneumonia, unspecified	2		
Pneumonia due to Haemophilus influenzae	1		
Pneumonia, unspecified	1		
Respiratory disorder, unspecified	1		
Viral pneumonia, unspecified	2		
Chapter 16: Certain conditions originating in the perinatal period (P00-P96)		70	
Disseminated intravascular coagulation of fetus and newborn	1		
Extreme immaturity, 24 or more completed weeks but less than 28 completed weeks	3		
Extreme immaturity, less than 24 completed weeks	1		
Extremely low birth weight 499g or less	7		
	-		
Extremely low birth weight 500 - 749g	4		

2

Extremely low birth weight 750 - 999g

Fetus and newborn affected by chorioamnionitis	16	
Fetus and newborn affected by incompetent cervix	2	
Fetus and newborn affected by maternal hypertensive disorders	2	
Fetus and newborn affected by maternal infectious and parasitic diseases	1	
Fetus and newborn affected by multiple pregnancy	3	
Fetus and newborn affected by other forms of placental separation and haemorrhage	3	
Fetus and newborn affected by other malpresentation, malposition and disproportion		
during labour and delivery	1	
Fetus and newborn affected by other specified complications of labour and delivery	1	
Fetus and newborn affected by premature rupture of membranes		
Intracerebral (nontraumatic) haemorrhage of fetus and newborn		
Necrotising enterocolitis of fetus and newborn		
Perinatal intestinal perforation		
Prematurity, unspecified	2	
Respiratory distress syndrome of newborn	1	
Termination of pregnancy, affecting fetus and newborn	2	
Unspecified intraventricular (nontraumatic) haemorrhage of fetus and newborn	4	

Chapter 17: Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)		18
Agenesis of corpus callosum	1	
Chromosomal abnormality, unspecified	2	
Down syndrome, unspecified	1	
Hydranencephaly	1	
Hypoplasia and dysplasia of lung	1	
Hypoplastic left heart syndrome	1	
Microcephaly	2	
Osteogenesis imperfecta	1	
Other specified chromosome abnormalities	1	
Other specified congenital malformation syndromes predominantly affecting facial		
appearance	1	
Patent ductus arteriosus	2	
Renal agenesis, unspecified	1	
Sirenomelia syndrome	1	
Tetralogy of Fallot	1	
Tuberous sclerosis	1	

Chapter 18: Symptoms, signs and abnormal clinical and laboratory findings, not			
elsewhere classified (R00-R99)		31	
Other ill-defined and unspecified causes of mortality	23		
Sudden infant death syndrome	2		
Sudden infant death syndrome with mention of autopsy	6		
Chapter 20: External causes of morbidity and mortality (V00-V99)		78	

Accident to other private fixed-wing aircraft, injuring occupant	2
Accidental poisoning by and exposure to liquefied petroleum gas [LPG]	1
Accidental poisoning by and exposure to other specified gas and vapours	1
Assault by hanging, strangulation and suffocation, parent	2
Assault by knife, parent	2

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Total	242

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