



AUSTRALIAN BUREAU OF STATISTICS
Canberra



**PERINATAL DEATHS
AUSTRALIA
1986**

CATALOGUE NO. 3304.0

EMBARGOED UNTIL 11.30 A.M. 14 MARCH 1988

**PERINATAL DEATHS, AUSTRALIA,
1986**

IAN CASTLES
Australian Statistician

AUSTRALIAN BUREAU OF STATISTICS

CATALOGUE NO. 3304.0

PHONE INQUIRIES • *about these statistics*—contact Mr Mark Dickson on Canberra (062) 52 6429 or any ABS State office.

• *about other statistics and ABS services*—contact Information Services on Canberra (062) 52 6007, 52 6627, 52 5402 or any ABS State office.

MAIL INQUIRIES • *write to Information Services*, ABS, P.O. Box 10, Belconnen, A.C.T. 2616 or any ABS State office.

ELECTRONIC SERVICES • on VIATEL — key *656#. • on AUSSTATS — phone (062) 52 6017. • on TELESTATS — phone (062) 52 5404.

CONTENTS

Tables

Page

..	Explanatory notes	1
..	Summary of findings	3
1.	Perinatal deaths: fetal and neonatal deaths by sex of child, number and rate, Australia, 1981 to 1986	7
2.	Perinatal deaths by State or Territory of usual residence of mother, number and rate, 1981 to 1986	7
3.	Perinatal deaths by time of cessation of heartbeat, sex and State or Territory of usual residence of mother, 1986	8
4.	Perinatal deaths by sex of child and main cause or condition in fetus/infant and mother, Australia, 1983 to 1986	9
5.	Perinatal deaths: main cause or condition in fetus/infant and mother by State or Territory of usual residence of mother, 1986	11
6.	Perinatal deaths: fetal and neonatal deaths by sex of child and main cause or condition in fetus/infant and mother, Australia, 1986	11
7.	Perinatal deaths by age of mother, number and rate, Australia, 1981 to 1986	13
8.	Perinatal deaths by age of mother and main cause or condition in fetus/infant and mother, Australia, 1986	13
9.	Perinatal death rates: age of mother by cause or condition in fetus/infant and mother, Australia, 1986	14
10.	Fetal deaths by time of cessation of heartbeat and main cause or condition in fetus and mother, Australia, 1986	15
11.	Neonatal deaths by age at death and main cause or condition in infant and mother, Australia, 1986	16
12.	Perinatal deaths: fetal and neonatal deaths by birthweight, Australia, 1981 to 1986	17
13.	Perinatal deaths by birthweight and main cause or condition in fetus/infant and mother, Australia, 1986	17
14.	Perinatal deaths: fetal and neonatal deaths by period of gestation, Australia, 1981 to 1986	19
15.	Perinatal deaths: fetal and neonatal deaths by age of mother and period of gestation, Australia, 1986	19
16.	Perinatal deaths by period of gestation and main cause or condition in fetus/infant and mother, Australia, 1986	20

APPENDIX. BIRTHS REGISTERED (FOR USE IN CALCULATING RATES)

A1.	Births by sex of child and State or Territory of usual residence of mother, Australia, 1986	22
A2.	Births by sex of child and age of mother, Australia, 1986	22
A3.	Births by sex, Australia, 1981 to 1986	22

Diagrams

1.	Perinatal, fetal and neonatal death rates, Australia, 1981 to 1986	3
2.	Fetal deaths: time of cessation of heartbeat, Australia, 1986	4
3.	Neonatal deaths by age of child, Australia, 1986	4
4.	Perinatal deaths: main condition in fetus/infant, Australia, 1986	5
5.	Perinatal death rate by age of mother, Australia, 1981 to 1986	6

EXPLANATORY NOTES

Introduction

This publication contains selected statistics of perinatal deaths in Australia. Perinatal deaths comprise *fetal deaths* (stillbirths) and *neonatal deaths* (deaths within 28 days of birth). These statistics have been compiled from Certificates of Cause of Perinatal Death supplied by medical practitioners to the Registrar of Births, Deaths and Marriages or the ABS in each State or Territory.

2. The primary purpose of this publication is to provide an overview of the nature of, and trends in perinatal deaths in Australia. Additional information is available on request.

Scope and coverage

3. The perinatal statistics shown in this publication include all fetuses and infants weighing at least 500 grams or (when birthweight is unavailable) the corresponding gestational age (22 weeks) or body length (25cm. crown-heel). This definition of perinatal deaths was adopted from 1979, in accordance with recommendations of the World Health Organization (WHO).

4. The 1984 and 1985 perinatal statistics have been affected by the abnormal delays in the registration process in the New South Wales Registry of Births, Deaths and Marriages in 1984. The delays reduced the number of births and deaths registered in New South Wales in 1984 and as the backlog was cleared in 1985, increased the number of births and deaths that normally would have been registered in 1985. This should be borne in mind in interpreting the statistics for 1984 and 1985 and comparing them with those of other years.

Definitions

5. The following definitions have been used in compiling these statistics:

Perinatal death is a fetal death or neonatal death, as defined below.

Fetal death relates to the delivery of a child weighing at least 500 grams at delivery (or, when birthweight is unavailable, of at least 22 weeks gestation) which did not, at any time after delivery, breathe or show any other evidence of life such as a heartbeat.

Neonatal death relates to any child weighing at least 500 grams at delivery (or, when birthweight is unavailable, of at least 22 weeks gestation) who is born alive (as defined under live birth below) and who dies within 28 days after birth.

Live birth is the delivery of a child weighing at least 500 grams at delivery (or, when birthweight is unavailable, of at least 22 weeks gestation) who after being born, breathes or shows any other evidence of life such as a heartbeat.

Period of gestation is measured from the first day of the last normal menstrual period to the date of birth and is expressed in completed weeks.

6. Where it is not known whether the time of cessation of heartbeat was before or after delivery, those deaths have been included with fetal deaths. In 1986 there were 9 males and 12 females in this category — see Table 3.

Perinatal death rates

7. For comparison and measuring purposes, perinatal deaths in this publication have also been expressed as rates. These rates are defined as follows:

(a) for fetal deaths and total perinatal deaths, the rates represent the number of deaths per 1,000 live births and stillbirths (fetal deaths) combined.

(b) for neonatal deaths, the rates represent the number of deaths per 1,000 live births.

8. The live birth statistics used to calculate the rates, and shown in the Appendix, differ from those published in *Births, Australia* (3301.0). The live births statistics used in this publication have been adjusted to exclude those known to have weighed under 500 grams (in accordance with the WHO definition — see paragraph 3). However, infants who survived more than 28 days but weighed less than 500 grams at birth have not been excluded since figures for weight at birth are not available for those who survive more than 28 days. The adjusted birth figures shown in the tables (and the rates based on them), therefore, must be considered approximate.

Classification of cause of death

9. For perinatal deaths, both the main condition in the fetus/infant, and the main condition in the mother are coded to the full four-digit level of the Ninth Revision of the International Classification of Diseases (ICD). An abridged version of that classification designed for Australian use has been published in years prior to 1983. However, with the decline in perinatal mortality that has occurred, some categories of that classification are now responsible for few perinatal deaths. Causes selected for publication in this issue are those categories of this abridged classification which were responsible for a significant proportion of perinatal deaths.

10. Tables in this publication show the ICD codes in brackets which constitute the causes of death or conditions described, e.g. *Extreme immaturity* (765.0), *Birth trauma* (767) and *Maternal complications of pregnancy* (761).

Statistics for States and Territories

11. The statistics of perinatal deaths are presented only in respect of the State or Territory which was the usual residence of the mother. In the 1983 and earlier issues of this publication, statistics were also provided in respect of the State or Territory in which the death was registered (i.e. occurred). While these statistics are no longer published, they can be made available to users on request.

Data quality

12. Statistics of perinatal deaths are compiled from information supplied by the medical practitioner certifying the death, or by a coroner. This information, which is obtained as part of the death registration or notification process, is provided to the ABS by individual State or Territory Registrars, or in some cases by the certifying doctor. The aggregate statistics shown in this publication are compiled by the ABS from this information provided.

13. In compiling these statistics the ABS employs a variety of quality control measures to ensure the statistics are as reliable as possible. These measures include: coverage checks to ensure all relevant deaths are counted in the statistics; seeking further information from the certifying doctor or coroner where necessary to enable complete and accurate information about the death to be classified and coded; detailed computer editing of data; and checks on data output at the individual record and aggregate levels.

International comparability

14. For purposes of international comparison, WHO recommends that the definition of perinatal death excludes perinatal deaths at weights under 1,000 grams, or neonatal deaths at ages over 7 days. As the statistics shown in this publication exceed that recommended definition, care should be taken in comparing these statistics with those for other countries.

Related publications

15. Other ABS publications which may be of interest include:

Births, Australia (3301.0)
Deaths, Australia (3302.0)
Causes of Death, Australia (3303.0)

16. Current publications produced by the ABS are listed in the *Catalogue of Publications, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Publications Advice* (1105.0) which lists publications to be releases in the next few days. The Catalogue and Publications Advice are available from any ABS office.

Symbols and other usages

M males
 F females
 P persons
 — nil or less than half the final digit shown
 .. not applicable

ICD International Classification of Diseases (produced by the World Health Organization)

17. Where figures have been rounded, discrepancies may occur between sums of the component items and totals.

Electronic services

VIATEL. Key *656# for selected current economic, social and demographic statistics.

AUSSTATS. Thousands of up-to-date time series are available on this ABS on-line service through CSIRONET.

For further information phone the AUSSTATS Help Desk on (062) 52 6017.

TELESTATS. This service provides foreign trade statistics tailored to users' requirements.

Further information is available on (062) 52 5404.

SUMMARY OF FINDINGS

General

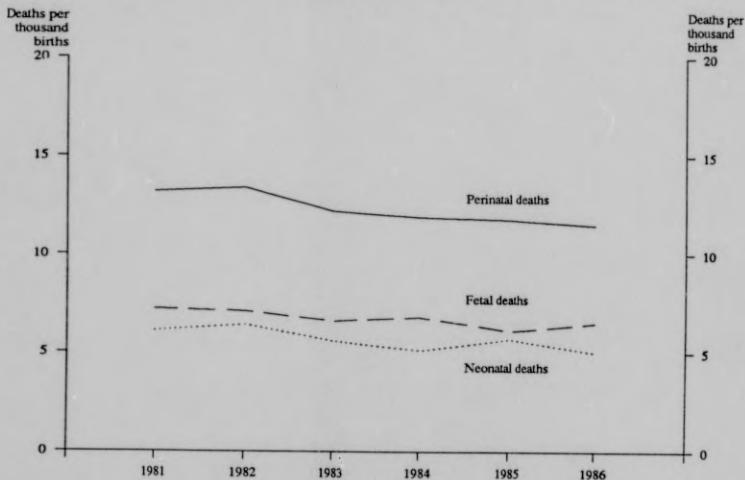
In 1986, there were 2,812 perinatal deaths recorded in Australia — 1,585 fetal deaths (stillbirths) and 1,227 neonatal deaths (children born alive who died within 28 days of birth).

This total represented a decrease of 4.2 per cent over the number of deaths in 1985, and continues the downward trend in the number of perinatal deaths over the period 1981 to 1986. The rate of perinatal deaths to births was 11.5 per thousand in 1986, slightly below the 1985 figure of 11.8.

The decline in the number of perinatal deaths over the period 1981 to 1986 has been mostly due to a fall in neonatal deaths. The number of neonatal deaths in 1986 was 14.8 per cent below the 1981 figure. This compares with a fall of 7.1 per cent in the number of fetal deaths.

The death rates for perinatal, fetal and neonatal deaths over this period are illustrated below.

DIAGRAM 1. PERINATAL, FETAL AND NEONATAL DEATH RATES, AUSTRALIA, 1981 TO 1986



Sex

There were slightly more male fetal deaths than female, but the death rates for both sexes were similar; 6.5 deaths per thousand births for males, and 6.4 for females. For neonatal deaths, males outnumbered females by almost 50 per cent (727 males compared with 500 females). However, because there were more male than female live births, the difference between the male and female neonatal death rates was less marked; 5.8 deaths per thousand live births for males, and 4.2 for females.

Time of death

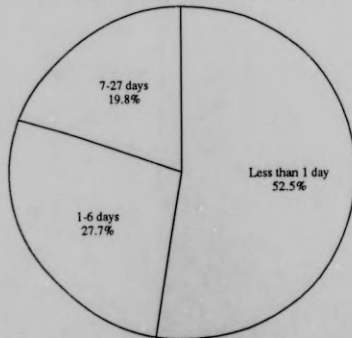
In 1986, 66.6 per cent of recorded fetal deaths occurred before the onset of labour. However, care is needed in interpreting this figure. Due to the birthweight and period of gestation criterion applied in compiling these statistics, the fetal deaths recorded are only those which, in general, occurred in the latter stages of pregnancy. 398 deaths occurred during labour, representing 25.1 per cent of all fetal deaths.

DIAGRAM 2. FETAL DEATHS: TIME OF CESSATION OF HEARTBEAT, AUSTRALIA, 1986



Slightly over half of all neonatal deaths occurred within one day of birth, and 80.2 per cent within the first 6 days after birth.

DIAGRAM 3. NEONATAL DEATHS BY AGE OF CHILD(a), AUSTRALIA, 1986



(a) Excludes neonatal deaths where age was 'days, not stated'.

Birthweight

Most neonatal deaths were recorded for children who weighed less than 2,000 grams at birth. This group accounted for 57.7 per cent of all neonatal deaths. Almost two thirds of this group involved children weighing less than 1,000 grams at birth.

56.7 per cent of recorded fetal deaths involved fetuses weighing less than 2,000 grams at birth. 290 fetal deaths were at birthweights of 3,000 grams or more.

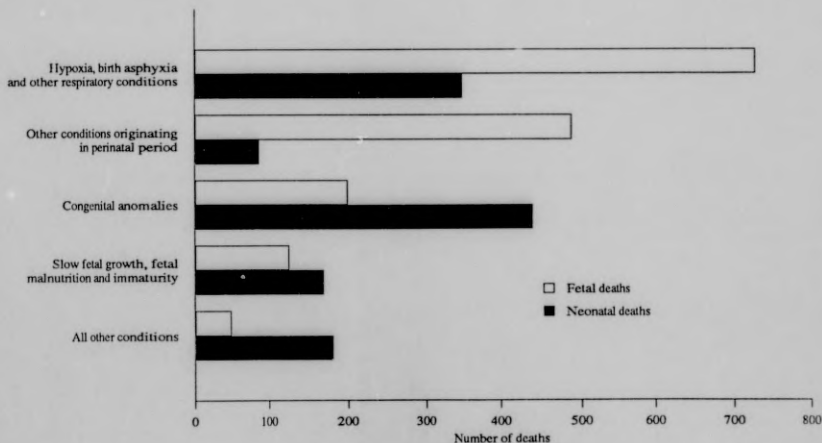
Some caution should be exercised in interpreting birthweight distribution as the perinatal statistics presented in this publication include only fetuses and infants weighing at least 500 grams.

Causes of death

In total, the three leading causes of perinatal death in 1986 were *hypoxia, birth asphyxia and other respiratory conditions, congenital anomalies and other conditions originating in the perinatal period*. Collectively, these conditions accounted for 81.3 per cent of all perinatal deaths.

However, as might be expected, the relative significance of these causes differed for fetal and neonatal deaths, as illustrated below. The leading causes of fetal death were *asphyxia or anoxia before or during labour*, which accounted for 707 (44.6 per cent) fetal deaths. For neonatal deaths, the leading cause of death was *congenital anomalies*, which accounted for 440 (35.9 per cent) deaths. Other leading causes of neonatal deaths were *hypoxia, asphyxia and other respiratory conditions* (28.5 per cent) and conditions associated with *slow fetal growth, fetal malnutrition and immaturity* (13.9 per cent).

DIAGRAM 4. PERINATAL DEATHS: MAIN CONDITION IN FETUS/INFANT, AUSTRALIA, 1986



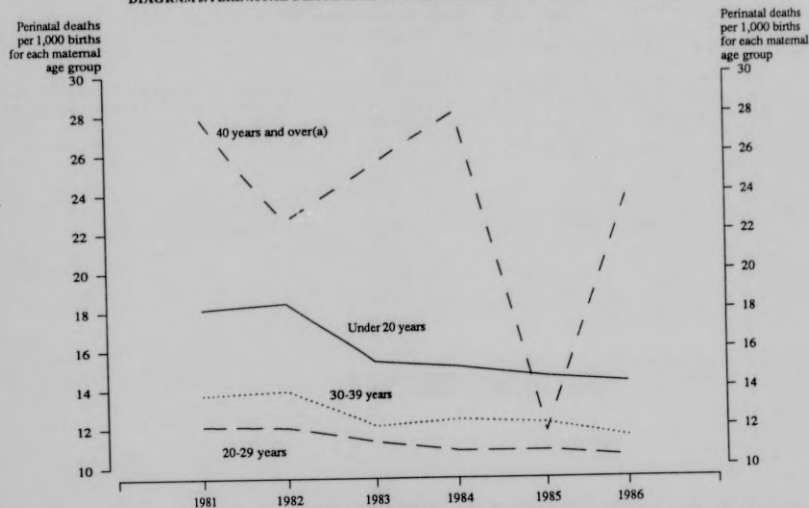
For 63.2 per cent of perinatal deaths, a maternal condition affecting the fetus or infant was reported. The most frequently reported main conditions in the mother were *complications of placenta, cord and membranes and maternal complications of pregnancy* (including conditions such as premature rupture of membranes and incompetent cervix).

Maternal age

Higher perinatal death rates were recorded among mothers in the younger (less than 20 years of age) and older (40 years and over) age groups: 14.3 and 23.9 deaths per thousand births respectively. These compare with rates of 10.5 and 11.5 for the age groups 20-29 and 30-39 years.

The proportion of fetal deaths among mothers aged 40 years and over was higher than for any other age group. For this age group, one in 71 of all births were stillbirths. This compares with a ratio of one in 170 for the age group 20-29 years.

DIAGRAM 5. PERINATAL DEATH RATE BY AGE OF MOTHER, AUSTRALIA, 1981 TO 1986



(a) As there are only a small number of births to mothers aged 40 years and over significant fluctuations in the perinatal death rate for this age group may result from relatively small increases or decreases in the number of perinatal deaths.

TABLE 1. PERINATAL DEATHS : FETAL AND NEONATAL DEATHS BY SEX OF CHILD, NUMBER AND RATE, AUSTRALIA, 1981 TO 1986

Year	Fetal deaths			Neonatal deaths			All perinatal deaths		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
NUMBER									
1981	908	798	1,706	847	593	1,440	1,755	1,391	3,146
1982	889	816	1,705	859	670	1,529	1,748	1,486	3,234
1983	910	709	1,619	751	598	1,349	1,661	1,307	2,968
1984	833	760	1,593	718	486	1,204	1,551	1,246	2,797
1985	814	704	1,518	798	618	1,416	1,612	1,322	2,934
1986	823	762	1,585	727	500	1,227	1,550	1,262	2,812
RATE(a)									
1981	7.4	6.9	7.2	7.0	5.2	6.1	14.4	12.1	13.2
1982	7.2	6.9	7.1	7.0	5.7	6.4	14.1	12.7	13.4
1983	7.3	6.0	6.6	6.0	5.1	5.6	13.2	11.0	12.2
1984	6.9	6.6	6.8	6.0	4.3	5.1	12.9	10.8	11.9
1985	6.4	5.8	6.1	6.3	5.1	5.7	12.6	10.9	11.8
1986	6.5	6.4	6.5	5.8	4.2	5.0	12.3	10.6	11.5

(a) Rates are per 1,000 of total relevant births - see also paragraphs 5-8 of the Explanatory Notes.

TABLE 2. PERINATAL DEATHS BY STATE OR TERRITORY OF USUAL RESIDENCE OF MOTHER, NUMBER AND RATE, 1981 TO 1986

Year	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia
NUMBER									
1981	1,136	794	511	205	274	96	88	42	3,146
1982	1,140	872	511	247	260	78	80	46	3,234
1983	1,016	757	512	226	250	92	67	48	2,968
1984	974	700	464	208	260	90	63	38	2,797
1985	991	757	487	248	247	101	58	45	2,934
1986	975	707	441	200	269	110	66	44	2,812
RATE(a)									
1981	13.8	13.3	13.0	10.6	12.4	13.2	27.9	10.1	13.2
1982	13.5	14.5	12.5	12.8	11.6	11.0	27.1	11.1	13.4
1983	12.1	12.5	12.1	11.3	10.8	12.9	21.1	11.5	12.2
1984	12.4	11.7	11.4	10.3	12.0	12.5	19.5	9.2	11.9
1985	11.2	12.2	12.0	12.4	10.6	13.8	17.4	10.9	11.8
1986	11.5	11.7	10.9	10.1	11.0	15.7	19.7	10.7	11.5

(a) Rates are per 1,000 of total relevant births - see also paragraphs 5-8 of the Explanatory Notes.

TABLE 3. PERINATAL DEATHS BY TIME OF CESSATION OF HEARTBEAT, SEX AND STATE OR TERRITORY OF USUAL RESIDENCE OF MOTHER, 1986

Time of cessation of heartbeat	Sex	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia	
										Number	Rate (b)
Before delivery -											
Before labour commenced	M	171	149	95	47	35	29	13	8	547	4.4
	F	182	118	72	44	47	25	14	6	508	4.3
During labour	M	82	55	29	9	27	5	5	3	215	1.7
	F	70	49	30	3	24	4	-	3	183	1.5
Not known whether before or during labour	M	16	12	7	10	5	-	1	1	52	0.4
	F	10	12	15	11	7	3	1	-	59	0.5
Not known whether before or after delivery (a)	M	5	-	2	-	-	1	1	-	9	0.1
	F	6	3	2	-	-	-	1	-	12	0.1
Total (fetal deaths) - number	M	274	216	133	66	67	33	20	12	823	..
	F	268	182	119	58	78	32	16	9	762	..
	P	542	398	252	124	145	67	36	21	1,585	..
- rate (b)	M	6.3	7.0	6.4	6.6	5.4	9.6	11.6	5.6	..	6.5
	F	6.5	6.2	6.0	5.9	6.6	9.5	9.9	4.5	..	6.4
	P	6.4	6.6	6.2	6.2	5.9	9.6	10.8	5.1	..	6.5
After delivery (neonatal deaths) - number	M	246	186	112	47	74	29	19	14	727	..
	F	187	123	77	29	50	14	11	9	500	..
	P	433	309	189	76	124	43	30	23	1,227	..
- rate (b)	M	5.7	6.0	5.4	4.7	5.9	8.0	11.1	6.6	..	5.8
	F	4.6	4.2	3.9	3.0	4.2	4.2	6.9	4.5	..	4.2
	P	5.1	5.1	4.7	3.9	5.1	6.2	9.1	5.6	..	5.0
Total perinatal deaths - number	M	520	402	245	113	141	64	39	26	1,550	..
	F	455	305	196	87	128	46	27	18	1,262	..
	P	975	707	441	200	269	110	66	44	2,812	..
- rate (b)	M	11.9	12.9	11.7	11.3	11.3	17.5	22.6	12.2	..	12.3
	F	11.0	10.3	9.9	8.8	10.8	13.7	16.7	9.0	..	10.6
	P	11.5	11.7	10.9	10.1	11.0	15.7	19.7	10.7	..	11.5

(a) Included as fetal deaths in this publication. (b) Rates are per 1,000 of relevant births - see also paragraphs 5-8 of the Explanatory Notes.

TABLE 4. PERINATAL DEATHS BY SEX OF CHILD AND MAIN CAUSE OR CONDITION IN FETUS/INFANT AND MOTHER, AUSTRALIA, 1983 TO 1986

Cause of death and ICD code	Sex	1983	1984	1985	1986
All causes	M	1,661	1,551	1,612	1,550
	F	1,307	1,246	1,322	1,262
MAIN CONDITION IN FETUS/INFANT					
<i>Slow fetal growth, fetal malnutrition and immaturity (764, 765)</i>	M	134	119	117	175
	F	88	111	113	125
<i>Slow fetal growth and fetal malnutrition (764)</i>	M	17	16	25	33
	F	13	17	26	30
<i>Extreme immaturity (765.0)</i>	M	106	96	90	127
	F	72	89	79	92
<i>Birth trauma (767)</i>	M	28	24	34	22
	F	11	7	15	9
<i>Birth injury to brain, spine or spinal cord (767.0, 767.4)</i>	M	21	20	26	16
	F	9	6	13	7
<i>Hypoxia, birth asphyxia and other respiratory conditions (768-770)</i>	M	619	566	599	590
	F	489	483	466	485
<i>Fetal death from asphyxia or anoxia before onset of labour or at unspecified time (768.0)</i>	M	323	283	280	288
	F	264	267	218	276
<i>Fetal death from asphyxia or anoxia during labour (768.1)</i>	M	79	71	66	80
	F	62	83	56	63
<i>Fetal distress or birth asphyxia in liveborn infant (768.2-768.6)</i>	M	43	29	46	45
	F	31	21	18	23
<i>Respiratory distress syndrome (769)</i>	M	71	82	107	89
	F	48	50	73	40
<i>Congenital pneumonia (770.0)</i>	M	15	27	13	9
	F	17	8	14	8
<i>Massive aspiration syndrome (770.1)</i>	M	17	12	17	14
	F	18	9	23	23
<i>Atelectasis (770.4-770.5)</i>	M	26	20	19	28
	F	18	15	20	30
<i>Fetal and neonatal haemorrhage (772)</i>	M	83	60	65	43
	F	49	43	56	46
<i>Intraventricular haemorrhage (772.1)</i>	M	57	43	52	34
	F	30	32	33	34
<i>Haemolytic disease of fetus or newborn (773)</i>	M	14	11	15	9
	F	11	12	12	11
<i>Other conditions originating in the perinatal period (766, 771, 774-779)</i>	M	339	332	320	321
	F	261	280	277	251
<i>Infections specific to the perinatal period (771)</i>	M	46	38	44	39
	F	32	36	34	25
<i>Hydrops fetalis not due to isoimmunization (778.0)</i>	M	13	14	18	21
	F	11	13	12	12
<i>Congenital anomalies (740-759)</i>	M	387	389	411	340
	F	380	282	335	299
<i>Anencephalus and similar anomalies (740)</i>	M	39	37	45	40
	F	77	55	55	54
<i>Spina bifida (741)</i>	M	36	26	33	28
	F	21	18	34	19
<i>Congenital hydrocephalus (742.3)</i>	M	25	36	28	16
	F	22	14	17	22
<i>Other deformities of central nervous system (742.0-742.2, 742.4-742.9)</i>	M	15	12	19	15
	F	16	15	13	25

TABLE 4. PERINATAL DEATHS BY SEX OF CHILD AND MAIN CAUSE OR CONDITION IN FETUS/INFANT
AND MOTHER, AUSTRALIA, 1983 TO 1986-continued

Cause of death and ICD code	Sex	1983	1984	1985	1986
MAIN CONDITION IN FETUS/INFANT					
Congenital anomalies of heart and circulatory system (745-747)	M	84	95	82	69
	F	87	61	53	55
Congenital anomalies of respiratory system (748)	M	41	30	42	31
	F	21	18	21	17
Congenital anomalies of digestive system (749-751)	M	7	5	9	6
	F	7	5	6	7
Congenital anomalies of genital organs and urinary system (752, 753)	M	44	37	32	29
	F	15	18	21	13
Congenital anomalies of musculoskeletal system and limbs (754-756)	M	33	38	42	37
	F	24	23	36	26
Chromosomal anomalies (758)	M	17	32	37	35
	F	48	27	50	40
All other causes (001-739, 780-999)	M	57	50	51	50
	F	18	28	48	36
MAIN CONDITION IN MOTHER					
Maternal conditions which may be unrelated to present pregnancy (760)	M	148	144	179	150
	F	117	152	157	142
Maternal hypertensive disorders (760.0)	M	95	85	96	76
	F	74	87	89	79
Maternal complications of pregnancy (761)	M	321	307	328	346
	F	231	230	245	213
Incompetent cervix (761.0)	M	43	52	47	42
	F	24	39	28	25
Premature rupture of membranes (761.1)	M	81	60	60	76
	F	40	55	46	41
Polyhydramnios (761.3)	M	25	16	26	27
	F	22	22	13	25
Multiple pregnancy (761.5)	M	36	40	39	56
	F	40	28	37	28
Other maternal complications of pregnancy (Remainder of 761)	M	136	139	156	145
	F	105	86	121	94
Complications of placenta, cord and membranes (762)	M	509	445	442	439
	F	381	379	342	372
Placenta praevia (762.0)	M	19	24	17	15
	F	10	14	8	16
Other placental separation and haemorrhage (762.1)	M	215	194	174	158
	F	155	129	141	135
Other and unspecified morphological and functional abnormalities of placenta (762.2)	M	116	77	101	106
	F	81	98	71	72
Prolapsed cord (762.4)	M	23	11	26	18
	F	16	17	10	14
Other compression of umbilical cord (762.5)	M	95	89	84	93
	F	70	84	65	78
Other complications of placenta, cord and membranes (Remainder of 762)	M	41	50	40	49
	F	49	37	47	57
Other complications of labour and delivery (763)	M	83	74	89	70
	F	61	49	51	45
Breech delivery and extraction (763.0)	M	31	16	20	11
	F	15	10	7	14
No maternal condition reported	M	600	581	574	545
	F	517	436	527	490

TABLE 5. PERINATAL DEATHS: MAIN CAUSE OR CONDITION IN FETUS/INFANT AND MOTHER, BY STATE OR TERRITORY OF USUAL RESIDENCE OF MOTHER, 1986

Cause of death and ICD code	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia
All causes	975	707	441	200	269	110	66	44	2,812
Main condition in fetus/infant -									
Slow fetal growth, fetal malnutrition and immaturity (764, 765)	98	107	38	17	19	6	6	9	300
Birth trauma (767)	10	5	7	1	4	2	1	1	31
Hypoxia, birth asphyxia and other respiratory conditions (768-770)	395	295	143	59	91	57	19	16	1,075
Fetal and neonatal haemorrhage (772)	32	15	16	7	11	3	2	3	89
Haemolytic disease of fetus or newborn (773)	11	6	-	3	-	-	-	-	20
Other conditions originating in the perinatal period (766, 771, 774-779)	177	90	128	71	63	18	21	4	572
Congenital anomalies (740-759)	221	176	98	37	68	20	11	8	639
All other causes (Remainder of 001-999)	31	13	11	5	13	4	6	3	86
Main condition in mother -									
Maternal conditions which may be unrelated to present pregnancy (760)	87	78	47	15	38	10	14	3	292
Maternal complications of pregnancy (761)	260	128	64	25	56	10	11	5	559
Complications of placenta, cord and membranes (762)	295	182	160	45	58	44	12	15	811
Other complications of labour and delivery (763)	76	18	10	-	5	-	4	2	115
No maternal condition reported	257	301	160	115	112	46	25	19	1,035

TABLE 6. PERINATAL DEATHS: FETAL AND NEONATAL DEATHS BY SEX OF CHILD AND MAIN CAUSE OR CONDITION IN FETUS/INFANT AND MOTHER, AUSTRALIA, 1986

Cause of death and ICD code	Fetal deaths		Neonatal deaths		All perinatal deaths		
	Males	Females	Males	Females	Males	Females	Persons
All causes	823	762	727	500	1,550	1,262	2,812
MAIN CONDITION IN FETUS/INFANT							
Slow fetal growth, fetal malnutrition and immaturity (764, 765)	75	54	100	71	175	125	300
Slow fetal growth and fetal malnutrition (764)	30	26	3	4	33	30	63
Extreme immaturity (765.0)	40	26	87	66	127	92	219
Birth trauma (767)	-	1	22	8	22	9	31
Birth injury to brain, spine or spinal cord (767.0, 767.4)	-	-	16	7	16	7	23
Hypoxia, birth asphyxia and other respiratory conditions (768-770)	376	349	214	136	590	485	1,075
Fetal death from asphyxia or anoxia before onset of labour or at unspecified time (768.0)	288	276	-	-	288	276	564
Fetal death from asphyxia or anoxia during labour (768.1)	80	63	-	-	80	63	143
Fetal distress or birth asphyxia in liveborn infant (768.2-768.6)	-	-	45	23	45	23	68
Respiratory distress syndrome (769)	-	-	89	40	89	40	129
Congenital pneumonia (770.0)	3	3	6	5	9	8	17
Massive aspiration syndrome (770.1)	3	5	11	18	14	23	37
Atelectasis (770.4-770.5)	-	-	28	30	28	30	58
Fetal and neonatal haemorrhage (772)	5	12	38	34	43	46	89
Intraventricular haemorrhage (772.1)	-	2	34	32	34	34	68
Haemolytic disease of fetus or newborn (773)	5	7	4	4	9	11	20
Other conditions originating in the perinatal period (766, 771, 774-779)	269	219	52	32	321	251	572
Infections specific to the perinatal period (771)	16	14	23	11	39	25	64
Hydrops fetalis not due to isoimmunization (778.0)	13	9	8	3	21	12	33

TABLE 6. PERINATAL DEATHS: FETAL AND NEONATAL DEATHS BY SEX OF CHILD AND MAIN CAUSE OR CONDITION IN FETUS/INFANT AND MOTHER, AUSTRALIA, 1986-continued

Cause of death and ICD code	Fetal deaths		Neonatal deaths		All perinatal deaths		
	Males	Females	Males	Females	Males	Females	Persons
MAIN CONDITION IN FETUS/INFANT							
<i>Congenital anomalies (740-759)</i>	88	111	252	188	340	299	639
Anencephalus and similar anomalies (740)	19	38	21	16	40	54	94
Spina bifida (741)	9	7	19	12	28	19	47
Congenital hydrocephalus (742.3)	9	16	7	6	16	22	38
Other deformities of central nervous system (742.0-742.2, 742.4-742.9)	3	12	12	13	15	25	40
Congenital anomalies of heart and circulatory system (745-747)	6	7	63	48	69	55	124
Congenital anomalies of respiratory system (748)	-	-	31	17	31	17	48
Congenital anomalies of digestive system (749-751)	-	-	6	7	6	7	13
Congenital anomalies of genital organs and urinary system (752, 753)	9	3	20	10	29	13	42
Congenital anomalies of musculoskeletal system and limbs (754-756)	6	5	31	21	37	26	63
Chromosomal anomalies (758)	10	11	25	29	35	40	75
<i>All other causes (001-739, 780-999)</i>	5	9	45	27	50	36	86
MAIN CONDITION IN MOTHER							
<i>Maternal conditions which may be unrelated to present pregnancy (760)</i>	96	96	54	46	150	142	292
Maternal hypertensive disorders (760.0)	49	53	27	26	76	79	155
<i>Maternal complications of pregnancy (761)</i>	102	84	244	129	346	213	559
Incompetent cervix (761.0)	19	13	23	12	42	25	67
Premature rupture of membranes (761.1)	25	20	51	21	76	41	117
Polyhydramnios (761.3)	13	17	14	8	27	25	52
Multiple pregnancy (761.5)	16	11	40	17	56	28	84
Other maternal complications of pregnancy (Remainder of 761)	29	23	116	71	145	94	239
<i>Complications of placenta, cord and membranes (762)</i>	364	310	75	62	439	372	811
Placenta praevia (762.0)	10	8	5	8	15	16	31
Other placental separation and haemorrhage (762.1)	120	101	38	34	158	135	293
Other and unspecified morphological and functional abnormalities of placenta (762.2)	100	70	6	2	106	72	178
Prolapsed cord (762.4)	13	11	5	3	18	14	32
Other compression of umbilical cord (762.5)	89	77	4	1	93	78	171
Other complications of placenta, cord and membranes (Remainder of 762)	32	43	17	14	49	57	106
<i>Other complications of labour and delivery (763)</i>	23	15	47	30	70	45	115
Breech delivery and extraction (763.0)	6	7	5	7	11	14	25
<i>No maternal condition reported</i>	238	257	307	233	545	490	1,035

TABLE 7. PERINATAL DEATHS BY AGE OF MOTHER, NUMBER AND RATE, AUSTRALIA, 1981 TO 1986

Year	Age of mother (years)						Total
	Under 20	20-24	25-29	30-34	35-39	40 and over	
NUMBER							
1981	328	866	1,042	598	214	54	3,146
1982	322	879	1,032	632	242	46	3,234
1983	258	809	1,010	586	193	51	2,968
1984	222	740	914	579	231	59	2,797
1985	214	751	977	643	236	26	2,934
1986	206	674	942	591	254	54	2,812
RATE(a)							
1981	18.1	12.5	11.7	12.7	17.9	27.8	13.2
1982	18.4	12.8	11.4	12.8	17.8	22.6	13.4
1983	15.4	11.8	10.9	11.6	13.7	25.5	12.2
1984	15.1	11.7	10.1	11.4	15.8	28.1	11.9
1985	14.6	11.8	10.2	11.5	14.4	11.8	11.8
1986	14.3	11.3	9.9	10.5	14.8	23.9	11.5

(a) Rates are per 1,000 of total relevant births - see also paragraphs 5-8 of the Explanatory Notes.

TABLE 8. PERINATAL DEATHS BY AGE OF MOTHER AND MAIN CAUSE OR CONDITION IN FETUS/INFANT AND MOTHER, AUSTRALIA, 1986

Cause of death and ICD code	Age of mother (years)							Total
	Under 20	20-24	25-29	30-34	35-39	40 and over	Not stated	
All causes	206	674	942	591	254	54	91	2,812
MAIN CONDITION IN FETUS/INFANT								
Slow fetal growth, fetal malnutrition and immaturity (764, 765)	22	84	94	56	36	4	4	300
Slow fetal growth and fetal malnutrition (764)	3	23	21	13	3	-	-	63
Extreme immaturity (765.0)	19	56	67	40	30	4	3	219
Birth trauma (767)	3	5	10	5	4	-	4	31
Birth injury to brain, spine or spinal cord (767.0, 767.4)	3	4	8	4	4	-	-	23
Hypoxia, birth asphyxia and other respiratory conditions (768-770)	81	244	364	238	101	19	28	1,075
Fetal death from asphyxia or anoxia before onset of labour or at unspecified time (768.0)	36	134	191	126	61	7	9	564
Fetal death from asphyxia or anoxia during labour (768.1)	12	26	50	40	11	2	2	143
Fetal distress or birth asphyxia in liveborn infant (768.2-768.6)	5	19	21	12	4	2	5	68
Respiratory distress syndrome (769)	15	28	47	25	9	1	4	129
Congenital pneumonia (770.0)	-	2	5	4	4	1	1	17
Massive aspiration syndrome (770.1)	1	6	8	14	2	3	3	37
Atelectasis (770.4-770.5)	5	14	24	8	4	1	2	58
Fetal and neonatal haemorrhage (772)	5	25	27	16	10	4	2	89
Intraventricular haemorrhage (772.1)	5	18	20	13	9	2	1	68
Haemolytic disease of fetus or newborn (773)	-	2	6	9	1	2	-	20
Other conditions originating in the perinatal period (766, 771, 774-779)	50	144	185	106	59	14	14	572
Infections specific to the perinatal period (771)	6	12	23	15	4	3	1	64
Hydrops fetalis not due to isoimmunization (778.0)	-	5	14	9	4	-	-	33
Congenital anomalies (740-759)	33	153	237	144	39	10	23	639
Anencephalus and similar anomalies (740)	5	29	31	23	5	-	1	94
Spina bifida (741)	1	8	23	11	3	-	1	47
Congenital hydrocephalus (742.3)	6	8	14	7	3	-	-	38
Other deformities of central nervous system (742.0-742.2, 742.4-742.9)	2	10	15	9	1	1	2	40
Congenital anomalies of heart and circulatory system (745-747)	6	35	35	25	11	2	10	124
Congenital anomalies of respiratory system (748)	2	11	21	9	3	-	2	48
Congenital anomalies of digestive system (749-751)	-	6	2	1	1	1	2	13
Congenital anomalies of genital organs and urinary system (752, 753)	2	13	14	12	1	-	-	42
Congenital anomalies of musculoskeletal system and limbs (754-756)	5	13	27	12	1	2	3	63
Chromosomal anomalies (758)	3	11	29	21	7	4	-	75
All other causes (001-739, 780-999)	12	17	19	17	4	1	16	86

TABLE 8. PERINATAL DEATHS BY AGE OF MOTHER AND MAIN CAUSE OR CONDITION IN FETUS/INFANT AND MOTHER, AUSTRALIA, 1986 - continued

Cause of death and ICD code	Age of mother (years)							Total
	Under 20	20-24	25-29	30-34	35-39	40 and over	Not stated	
MAIN CONDITION IN MOTHER								
Maternal conditions which may be unrelated to present pregnancy (760)	34	77	89	51	31	7	3	292
Maternal hypertensive disorders (760.0)	14	40	45	33	18	5	-	155
Maternal complications of pregnancy (761)	38	131	190	125	61	9	5	559
Incompetent cervix (761.0)	1	16	18	22	8	2	-	67
Premature rupture of membranes (761.1)	4	19	48	30	9	5	2	117
Polyhydramnios (761.3)	1	13	17	9	9	2	1	52
Multiple pregnancy (761.5)	8	22	28	15	10	-	1	84
Other maternal complications of pregnancy (Remainder of 761)	24	61	79	49	25	-	1	239
Complications of placenta, cord and membranes (762)	62	204	264	173	75	22	11	811
Placenta praevia (762.0)	2	3	13	6	3	4	-	31
Other placental separation and haemorrhage (762.1)	26	72	95	63	30	5	2	293
Other and unspecified morphological and functional abnormalities of placenta (762.2)	13	54	60	31	13	2	5	178
Prolapsed cord (762.4)	4	8	10	7	2	-	1	32
Other compression of umbilical cord (762.5)	13	41	56	41	13	4	3	171
Other complications of placenta, cord and membranes (Remainder of 762)	4	26	30	25	14	7	-	106
Other complications of labour and delivery (763)	2	23	47	29	6	1	7	115
Breech delivery and extraction (763.0)	2	6	12	3	2	-	-	25
No maternal condition reported	70	239	352	213	81	15	65	1,035

TABLE 9. PERINATAL DEATH RATES (a) : AGE OF MOTHER BY MAIN CAUSE OR CONDITION IN FETUS/INFANT AND MOTHER, AUSTRALIA, 1986

Cause of death and ICD code	Age of mother (years)						
	Under 20	20-24	25-29	30-34	35-39	40 and over	Total(b)
All causes	14.3	11.3	9.9	10.5	14.8	23.9	11.5
<i>Main condition in fetus/infant</i>							
Slow fetal growth, fetal malnutrition and immaturity (764, 765)	1.5	1.4	1.0	1.0	2.1	1.8	1.2
Birth trauma (767)	0.2	0.1	0.1	0.1	0.2	-	0.1
Hypoxia, birth asphyxia and other respiratory conditions (768-770)	5.6	4.1	3.8	4.2	5.9	8.4	4.4
Fetal and neonatal haemorrhage (772)	0.3	0.4	0.3	0.3	0.6	1.8	0.4
Haemolytic disease of fetus or newborn (773)	-	0.0	0.1	0.2	0.1	0.9	0.1
Other conditions originating in the perinatal period (766, 771, 774-779)	3.5	2.4	1.9	1.9	3.4	6.2	2.3
Congenital anomalies (740-759)	2.3	2.6	2.5	2.5	2.3	4.4	2.6
All other causes (900-939, 980-999)	0.8	0.3	0.2	0.3	0.2	0.4	0.4
<i>Main condition in mother</i>							
Maternal conditions which may be unrelated to present pregnancy (760)	2.4	1.3	0.9	0.9	1.8	3.1	1.2
Maternal complications of pregnancy (761)	2.6	2.2	2.0	2.2	3.6	4.0	2.3
Complications of placenta, cord and membranes (762)	4.3	3.4	2.8	3.1	4.4	9.7	3.3
Other complications of labour and delivery (763)	0.1	0.4	0.5	0.5	0.3	0.4	0.5
No maternal condition reported	4.8	4.0	3.7	3.8	4.7	6.6	4.2

(a) Rates are per 1,000 of total relevant births - see also paragraphs 5-8 of the Explanatory Notes. (b) Including age not stated.

TABLE 10. FETAL DEATHS BY TIME OF CESSATION OF HEARTBEAT AND MAIN CAUSE OR CONDITION IN FETUS AND MOTHER, AUSTRALIA, 1986

TABLE 10. FETAL DEATHS BY TIME OF CESSATION OF HEARTBEAT AND MAIN CAUSE OR CONDITION IN FETUS AND MOTHER, 1980-1989										
Cause of death and ICD code	Heartbeat ceased									
	Before labour commenced					During labour	Before delivery but unknown if before or during labour	Unknown if before or after delivery	Total	
	Time dead in utero									
	Under 1 day	1-6 days	1-3 weeks	4 weeks or more	Not stated					
All causes	170	449	149	10	277	1,055	398	111	21	1,585
MAIN CONDITION IN FETUS										
Slow fetal growth, fetal malnutrition and immaturity (764, 765)	1	20	3	-	19	43	83	1	2	129
Slow fetal growth and fetal malnutrition (764)	1	20	3	-	19	43	12	1	-	56
Extreme immaturity (765.0)	-	-	-	-	-	-	64	-	2	66
Birth trauma (767)	-	-	-	-	-	-	1	-	-	1
Hypoxia, birth asphyxia and other respiratory conditions (768-770)	97	216	70	4	132	519	157	45	4	725
Fetal death from asphyxia or anoxia before onset of labour or at unspecified time (768.0)	94	214	69	4	131	512	4	44	4	564
Fetal death from asphyxia or anoxia during labour (768.1)	-	-	-	-	-	-	143	-	-	143
Fetal and neonatal haemorrhage (772)	1	5	-	-	3	9	3	3	2	17
Haemolytic disease of fetus or newborn (773)	-	7	1	-	3	11	-	1	-	12
Other conditions originating in the perinatal period (766, 771, 774-779)	62	173	60	5	87	387	55	38	8	488
Congenital anomalies (740-759)	6	25	14	-	30	75	96	23	5	199
Anencephalus and similar anomalies (740)	1	1	-	-	7	9	42	5	1	57
All other causes (001-739, 780-999)	3	3	1	1	3	11	3	-	-	14
MAIN CONDITION IN MOTHER										
Maternal conditions which may be unrelated to present pregnancy (760)	16	70	16	3	46	151	26	13	2	192
Maternal hypertensive disorders (760.0)	12	39	9	1	19	80	15	7	-	102
Maternal complications of pregnancy (761)	19	17	6	3	21	66	103	12	5	186
Incompetent cervix (761.0)	3	2	-	-	-	5	24	2	1	32
Premature rupture of membranes (761.1)	7	2	-	-	7	16	25	3	1	45
Polyhydramnios (761.3)	6	3	4	1	4	18	11	-	-	30
Complications of placenta, cord and membranes (762)	95	206	64	3	112	480	143	46	5	674
Placenta praevia (762.0)	4	2	1	-	2	9	7	2	-	18
Other placental separation and haemorrhage (762.1)	55	33	7	-	37	132	67	19	3	221
Other and unspecified morphological and functional abnormalities of placenta (762.2)	13	74	25	2	31	145	13	12	-	170
Prolapsed cord (762.4)	2	2	1	-	-	5	18	1	-	24
Other compression of umbilical cord (762.5)	8	74	24	1	28	135	21	8	2	166
Other complications of placenta, cord and membranes (Remainder of 762)	13	21	6	-	14	54	17	4	-	75
Other complications of labour and delivery (763)	-	1	1	-	1	3	30	3	2	38
No maternal condition reported	40	155	62	1	97	355	96	37	7	495

TABLE 11. NEONATAL DEATHS BY AGE AT DEATH AND MAIN CAUSE OR CONDITION IN INFANT AND MOTHER, AUSTRALIA, 1986

Cause of death and ICD code	Age at death							
	Under 1 hour	1-11 hours	12-23 hours	Total under 1 day(a)	1 day	2 days	3-6 days	Total under 28 days(b)
All causes	213	319	106	639	126	71	140	241
MAIN CONDITION IN INFANT								
<i>Slow fetal growth, fetal malnutrition and immaturity (764, 765)</i>	89	56	7	152	5	1	6	5
<i>Extreme immaturity (765.0)</i>	84	54	4	142	3	1	4	1
<i>Birth trauma (767)</i>	2	4	6	12	5	1	9	2
<i>Birth injury to brain, spine or spinal cord (767.0, 767.4)</i>	1	2	4	7	5	1	8	2
<i>Hypoxia, birth asphyxia and other respiratory conditions (768-770)</i>	39	113	50	202	52	18	33	42
<i>Fetal distress or birth asphyxia in liveborn infant (768.2-768.6)</i>	16	20	6	42	9	4	7	5
<i>Respiratory distress syndrome (769)</i>	-	40	24	64	20	6	17	21
<i>Congenital pneumonia (770.0)</i>	2	5	2	9	1	1	-	11
<i>Massive aspiration syndrome (770.1)</i>	3	7	2	12	4	3	3	6
<i>Atelectasis (770.4-770.5)</i>	15	25	9	49	6	-	1	2
<i>Fetal and neonatal haemorrhage (772)</i>	-	7	8	15	9	10	19	19
<i>Intraventricular haemorrhage (772.1)</i>	-	7	5	12	9	10	17	18
<i>Other conditions originating in the perinatal period (766, 771, 773-779)</i>	12	13	9	35	8	3	10	36
<i>Infections specific to the perinatal period (771)</i>	4	5	5	14	2	2	5	11
<i>Congenital anomalies (740-759)</i>	68	121	26	215	44	37	57	83
<i>Anencephalus and similar anomalies (740)</i>	15	14	3	32	3	1	1	-
<i>Spina bifida (741)</i>	6	6	1	13	2	-	4	12
<i>Congenital hydrocephalus (742.3)</i>	2	-	-	7	1	1	2	2
<i>Congenital anomalies of heart and circulatory system (745-747)</i>	2	9	7	18	13	14	27	39
<i>Congenital anomalies of respiratory system (748)</i>	12	21	3	36	3	5	2	2
<i>Congenital anomalies of digestive system (749-751)</i>	3	3	-	6	1	-	3	3
<i>Congenital anomalies of genital organs and urinary system (752, 753)</i>	7	18	3	28	-	-	2	-
<i>Congenital anomalies of musculoskeletal system and limbs (754-756)</i>	10	16	1	27	11	4	2	6
<i>Chromosomal anomalies (758)</i>	2	12	5	19	5	6	13	11
<i>All other causes (901-939, 980-999)</i>	3	5	-	8	3	1	6	54
MAIN CONDITION IN MOTHER								
<i>Maternal conditions which may be unrelated to present pregnancy (760)</i>	14	20	3	37	13	3	19	27
<i>Maternal hypertensive disorders (760.0)</i>	6	6	1	13	4	2	14	20
<i>Maternal complications of pregnancy (761)</i>	90	123	42	255	34	14	29	39
<i>Incompetent cervix (761.0)</i>	16	8	2	26	2	-	4	2
<i>Premature rupture of membranes (761.1)</i>	15	28	8	51	8	2	4	6
<i>Polyhydramnios (761.3)</i>	5	9	-	14	-	2	2	4
<i>Multiple pregnancy (761.5)</i>	12	17	10	39	6	4	5	3
<i>Other maternal complications of pregnancy (Remainder of 761)</i>	42	61	22	125	18	6	14	24
<i>Complications of placenta, cord and membranes (762)</i>	45	46	7	99	11	9	9	9
<i>Other complications of labour and delivery (763)</i>	7	16	10	33	13	8	13	10
<i>No maternal condition reported</i>	57	114	44	215	55	37	70	156

(a) Includes 1 male of 'hours, not stated'. (b) Includes 10 cases (5 males and 5 females) of 'days, not stated'.

TABLE 12. PERINATAL DEATHS: FETAL AND NEONATAL DEATHS BY BIRTHWEIGHT, AUSTRALIA, 1981 TO 1986

Birthweight (grams)	1981	1982	1983	1984	1985	1986
FETAL DEATHS						
500-999	505	509	479	488	463	495
1000-1499	268	226	191	205	216	219
1500-1999	174	180	187	182	169	185
2000-2499	192	202	197	172	169	157
2500-2999	181	207	185	184	186	169
3000-3499	184	168	181	174	141	157
3500-3999	98	112	93	89	72	76
4000-4499	37	34	29	31	21	31
4500 or more	17	16	18	15	11	14
Not stated	50	51	59	53	70	65
Total	1,706	1,705	1,619	1,593	1,518	1,585
NEONATAL DEATHS						
500-999	469	512	457	402	478	464
1000-1499	199	212	164	177	193	142
1500-1999	123	131	135	110	151	102
2000-2499	138	133	114	118	105	83
2500-2999	151	166	156	118	140	136
3000-3499	177	179	141	127	157	130
3500-3999	99	109	88	78	84	78
4000-4499	27	27	31	19	25	20
4500 or more	10	10	6	6	9	2
Not stated	47	50	57	49	74	70
Total	1,440	1,529	1,349	1,204	1,416	1,227
ALL PERINATAL DEATHS						
500-999	974	1,021	936	890	941	959
1000-1499	467	438	355	382	409	361
1500-1999	297	311	322	292	320	287
2000-2499	330	335	311	290	274	240
2500-2999	332	373	341	302	326	310
3000-3499	361	347	322	301	298	299
3500-3999	197	221	181	167	156	154
4000-4499	64	61	60	50	46	51
4500 or more	27	26	24	21	20	16
Not stated	97	101	116	102	144	135
Total	3,146	3,234	2,968	2,797	2,934	2,812

TABLE 13. PERINATAL DEATHS BY BIRTHWEIGHT AND MAIN CAUSE OR CONDITION IN FETUS/INFANT AND MOTHER, AUSTRALIA, 1986

Cause of death and ICD code	Birthweight (grams)						Total
	500-999	1000-1999	2000-2999	3000-3999	4000 or more	Not stated	
All causes	959	648	550	453	67	135	2,812
MAIN CONDITION IN FETUS/INFANT							
Slow fetal growth, fetal malnutrition and immaturity (764, 765)	232	42	15	2	-	9	300
Slow fetal growth and fetal malnutrition (764)	17	26	15	1	-	4	63
Extreme immaturity (765.0)	215	2	-	-	-	2	219
Birth trauma (767)	7	6	3	12	-	3	31
Birth injury to brain, spine or spinal cord (767.0, 767.4)	6	5	2	9	-	1	23
Hypoxia, birth asphyxia and other respiratory conditions (768-770)	357	233	211	205	28	41	1,075
Fetal death from asphyxia or anoxia before onset of labour or at unspecified time (768.0)	121	140	153	115	12	23	564
Fetal death from asphyxia or anoxia during labour (768.1)	44	21	24	43	9	2	143
Fetal distress or birth asphyxia in liveborn infant (768.2-768.6)	24	11	9	17	-	7	68
Respiratory distress syndrome (769)	82	33	7	3	-	4	129
Congenital pneumonia (770.0)	9	3	3	2	-	-	17
Massive aspiration syndrome (770.1)	2	2	10	18	4	1	37
Atelectasis (770.4-770.5)	50	5	1	1	-	1	58

TABLE 13. PERINATAL DEATHS BY BIRTHWEIGHT AND MAIN CAUSE OR CONDITION
IN FETUS/INFANT AND MOTHER, AUSTRALIA, 1986-continued

Cause of death and ICD code	Birthweight (grams)						Total
	500- 999	1000- 1999	2000- 2999	3000- 3999	4000 or more	Not stated	
MAIN CONDITION IN FETUS/INFANT							
Fetal and neonatal haemorrhage (772)	49	27	3	3	4	3	89
Intraventricular haemorrhage (772.1)	46	21	-	-	1	-	68
Haemolytic disease of fetus or newborn (773)	4	7	7	2	-	-	20
Other conditions originating in the perinatal period (766, 771, 774-779)	197	134	120	75	19	27	572
Infections specific to the perinatal period (771)	35	11	8	6	-	4	64
Hydrops fetalis not due to isoimmunization (778.0)	6	8	10	5	2	2	33
Congenital anomalies (740-759)	100	190	175	128	14	32	639
Anencephalus and similar anomalies (740)	30	40	17	5	-	2	94
Spina bifida (741)	5	10	18	9	1	4	47
Congenital hydrocephalus (742.3)	11	8	7	10	1	1	38
Other deformities of central nervous system (742.0-742.2, 742.4-742.9)	11	16	9	3	1	-	40
Congenital anomalies of heart and circulatory system (745-747)	1	21	36	57	4	5	124
Congenital anomalies of respiratory system (748)	9	14	13	10	1	1	48
Congenital anomalies of digestive system (749-751)	-	5	3	2	-	3	13
Congenital anomalies of genital organs and urinary system (752, 753)	3	20	12	6	-	1	42
Congenital anomalies of musculoskeletal system and limbs (754-756)	5	11	19	14	5	9	63
Chromosomal anomalies (758)	12	22	29	10	-	2	75
All other causes (001-739, 780-999)	13	9	16	26	2	20	86
MAIN CONDITION IN MOTHER							
Maternal conditions which may be unrelated to present pregnancy (760)	118	86	41	33	7	7	292
Maternal hypertensive disorders (760.0)	59	50	27	15	2	2	155
Maternal complications of pregnancy (761)	366	134	25	20	2	12	559
Incompetent cervix (761.0)	60	3	2	1	-	1	67
Premature rupture of membranes (761.1)	82	28	3	-	-	4	117
Polyhydramnios (761.3)	21	13	5	10	2	1	52
Multiple pregnancy (761.5)	48	26	8	2	-	-	84
Other maternal complications of pregnancy (Remainder of 761)	155	64	7	7	-	6	239
Complications of placenta, cord and membranes (762)	270	191	175	137	13	25	811
Placenta praevia (762.0)	20	4	6	1	-	-	31
Other placental separation and haemorrhage (762.1)	127	73	56	32	1	4	293
Other and unspecified morphological and functional abnormalities of placenta (762.2)	41	60	46	24	1	6	178
Prolapsed cord (762.4)	13	6	3	6	3	1	32
Other compression of umbilical cord (762.5)	16	27	56	57	7	8	171
Other complications of placenta, cord and membranes (Remainder of 762)	53	21	8	17	1	6	106
Other complications of labour and delivery (763)	18	19	25	36	10	6	115
Breech delivery and extraction (763.0)	5	4	10	5	1	-	25
No maternal condition reported	187	218	283	227	35	85	1,035

TABLE 14. PERINATAL DEATHS: FETAL AND NEONATAL DEATHS BY PERIOD OF GESTATION, AUSTRALIA, 1981 TO 1986

Period of gestation (weeks)	1981	1982	1983	1984	1985	1986
FETAL DEATHS						
Under 28	395	406	386	400	390	405
28-31	264	238	213	243	228	235
32-36	413	447	421	408	373	402
37-41	564	557	556	491	475	471
42 or more	51	42	25	29	25	39
Not stated	19	15	18	22	27	33
Total	1,706	1,705	1,619	1,593	1,518	1,585
NEONATAL DEATHS						
Under 28	454	492	451	417	470	449
28-31	197	212	174	160	206	158
32-36	239	266	222	206	247	179
37-41	491	462	433	342	386	335
42 or more	24	36	25	26	25	25
Not stated	35	61	44	53	82	81
Total	1,440	1,529	1,349	1,204	1,416	1,227
ALL PERINATAL DEATHS						
Under 28	849	898	837	817	860	854
28-31	461	450	387	403	434	393
32-36	652	713	643	614	620	581
37-41	1,055	1,019	989	833	861	806
42 or more	75	78	50	55	50	64
Not stated	54	76	62	75	109	114
Total	3,146	3,234	2,968	2,797	2,934	2,812

TABLE 15. PERINATAL DEATHS: FETAL AND NEONATAL DEATHS BY AGE OF MOTHER AND PERIOD OF GESTATION, AUSTRALIA, 1986

	Age of mother (years)							
Period of gestation (weeks)	Under 20	20-24	25-29	30-34	35-39	40 and over	Not stated	Total
FETAL DEATHS								
Under 28	32	98	134	90	41	8	2	405
28-31	19	70	67	53	19	5	2	235
32-36	31	104	126	82	41	10	8	402
37-41	28	104	166	111	46	8	8	471
42 or more	4	10	11	9	4	1	6	39
Not stated	2	7	12	4	2	-	6	33
Total	116	393	516	349	153	32	26	1,585
NEONATAL DEATHS								
Under 28	47	111	149	81	47	8	6	449
28-31	12	30	68	30	10	3	5	158
32-36	7	46	70	41	10	3	2	179
37-41	20	79	112	74	29	7	14	335
42 or more	-	1	11	9	-	1	3	25
Not stated	4	14	16	7	5	-	35	81
Total	90	281	426	242	101	22	65	1,227
ALL PERINATAL DEATHS								
Under 28	79	209	283	171	88	16	8	854
28-31	31	100	135	83	29	8	7	393
32-36	38	150	196	123	51	13	10	581
37-41	48	183	278	185	75	15	22	806
42 or more	4	11	22	18	4	2	3	64
Not stated	6	21	28	11	7	-	41	114
Total	206	674	942	591	254	54	91	2,812

TABLE 16. PERINATAL DEATHS BY PERIOD OF GESTATION AND MAIN CAUSE OR CONDITION
IN FETUS/INFANT AND MOTHER, AUSTRALIA, 1986

Cause of death and ICD code	Period of gestation (weeks)						Total
	Under 28	28-31	32-36	37-41	42 and over	Not stated	
All causes	854	393	581	806	64	114	2,812
MAIN CONDITION IN FETUS/INFANT							
Slow fetal growth, fetal malnutrition and immaturity (764, 765)	227	28	20	20	2	3	300
Slow fetal growth and fetal malnutrition (764)	7	14	19	20	2	1	63
Extreme immaturity (765.0)	211	6	-	-	-	2	219
Birth trauma (767)	5	6	3	13	3	1	31
Birth injury to brain, spine or spinal cord (767.0, 767.4)	4	4	3	10	2	-	23
Hypoxia, birth asphyxia and other respiratory conditions (768-770)	326	153	211	323	34	28	1,075
Fetal death from asphyxia or anoxia before onset of labour or at unspecified time (768.0)	90	81	163	205	12	13	564
Fetal death from asphyxia or anoxia during labour (768.1)	49	8	16	57	12	1	143
Fetal distress or birth asphyxia in liveborn infant (768.2-768.6)	26	6	8	20	3	5	68
Respiratory distress syndrome (769)	78	33	13	3	-	2	129
Congenital pneumonia (770.0)	10	1	2	2	-	2	17
Massive aspiration syndrome (770.1)	1	1	3	24	6	2	37
Atelectasis (770.4-770.5)	47	7	2	1	-	1	58
Fetal and neonatal haemorrhage (772)	52	17	10	7	-	3	89
Intraventricular haemorrhage (772.1)	48	14	3	1	-	2	68
Haemolytic disease of fetus or newborn (773)	3	7	7	2	-	1	20
Other conditions originating in the perinatal period (766, 771, 774-779)	154	93	150	153	9	13	572
Infections specific to the perinatal period (771)	34	9	9	10	1	1	64
Hydrops fetalis not due to isoimmunization (778.0)	5	11	15	1	-	1	33
Congenital anomalies (740-759)	74	84	173	267	14	27	639
Anencephalus and similar anomalies (740)	15	22	25	26	4	2	94
Spina bifida (741)	6	4	11	26	-	-	47
Congenital hydrocephalus (742.3)	11	2	12	12	1	-	38
Other deformities of central nervous system (742.0-742.2, 742.4-742.9)	8	8	11	13	-	-	40
Congenital anomalies of heart and circulatory system (745-747)	2	11	15	83	3	10	124
Congenital anomalies of respiratory system (748)	6	11	14	15	2	-	48
Congenital anomalies of digestive system (749-751)	-	3	5	2	-	3	13
Congenital anomalies of genital organs and urinary system (752, 753)	5	6	15	15	-	1	42
Congenital anomalies of musculoskeletal system and limbs (754-756)	4	1	16	35	-	7	63
Chromosomal anomalies (758)	7	4	30	29	3	2	75
All other causes (001-739, 780-999)	13	5	7	21	2	38	86

TABLE 16. PERINATAL DEATHS BY PERIOD OF GESTATION AND MAIN CAUSE OR CONDITION
IN FETUS/INFANT AND MOTHER, AUSTRALIA, 1986 -continued

Cause of death and ICD code	Period of gestation (weeks)						Total
	Under 28	28-31	32-36	37-41	42 and over	Not stated	
MAIN CONDITION IN MOTHER							
<i>Maternal conditions which may be unrelated to present pregnancy (760)</i>	87	67	74	62	1	1	292
Maternal hypertensive disorders (760.0)	33	42	44	35	1	-	155
<i>Maternal complications of pregnancy (761)</i>	364	89	67	27	2	10	559
Incompetent cervix (761.0)	60	3	2	1	-	1	67
Premature rupture of membranes (761.1)	84	25	7	-	-	1	117
Polyhydramnios (761.3)	16	10	14	10	1	1	52
Multiple pregnancy (761.5)	45	15	13	10	-	1	84
Other maternal complications of pregnancy (Remainder of 761)	159	36	31	6	1	6	239
<i>Complications of placenta, cord and membranes (762)</i>	240	108	185	244	20	14	811
Placenta praevia (762.0)	18	5	6	2	-	-	31
Other placental separation and haemorrhage (762.1)	129	44	66	44	2	8	293
Other and unspecified morphological and functional abnormalities of placenta (762.2)	23	25	57	62	9	2	178
Prolapsed cord (762.4)	14	4	1	12	1	-	32
Other compression of umbilical cord (762.5)	9	14	35	103	6	4	171
Other complications of placenta, cord and membranes (Remainder of 762)	47	16	20	21	2	-	106
<i>Other complications of labour and delivery (763)</i>	18	10	16	55	10	6	115
Breech delivery and extraction (763.0)	5	1	3	12	2	2	25
<i>No maternal condition reported</i>	145	119	239	418	31	83	1,035

APPENDIX. BIRTHS REGISTERED (FOR USE IN CALCULATING RATES)

TABLE A1. BIRTHS(a) BY SEX OF CHILD AND STATE OR TERRITORY OF USUAL RESIDENCE OF MOTHER, AUSTRALIA, 1986

Births	Sex	State or Territory of usual residence							Australia
		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	
Live births	M	43,444	30,846	20,771	9,928	12,444	3,613	1,709	124,870
	F	41,058	29,295	19,581	9,807	11,784	3,332	1,602	118,445
Stillbirths(b)	M	274	216	133	66	67	35	20	823
	F	268	182	119	58	78	32	16	762
Total	M	43,718	31,062	20,904	9,994	12,511	3,648	1,729	125,693
	F	41,326	29,477	19,790	9,865	11,862	3,364	1,618	119,207
	P	85,044	60,539	40,694	19,859	24,373	7,012	3,347	244,900

(a) See Explanatory Notes, paragraph 8. (b) Includes those where it was not known if the heartbeat ceased before or after delivery.

TABLE A2. BIRTHS(a) BY SEX OF CHILD AND AGE OF MOTHER, AUSTRALIA, 1986

Births	Sex	Age of mother (years)						Not stated	Total
		Under 20	20-24	25-29	30-34	35-39	40 and over		
Live births	M	7,256	30,322	48,326	28,941	8,837	1,169	19	124,870
	F	7,064	28,706	46,206	27,218	8,174	1,062	15	118,445
Stillbirths (b)	M	69	206	261	179	71	18	19	823
	F	47	187	255	170	82	14	7	762
Total	M	7,325	30,528	48,587	29,120	8,908	1,187	38	125,693
	F	7,111	28,893	46,461	27,388	8,256	1,076	22	119,207
	P	14,436	59,421	95,048	56,508	17,164	2,263	60	244,900

(a) See Explanatory Notes, paragraph 8. (b) Includes those where it was not known if the heartbeat ceased before or after delivery.

TABLE A3. BIRTHS(a) BY SEX, AUSTRALIA, 1981 TO 1986

Year	Live births			Stillbirths(b)			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
1981	121,135	114,622	235,757	908	798	1,706	122,043	115,420	237,463
1982	123,201	116,622	239,823	889	816	1,705	124,090	117,438	241,528
1983	124,513	117,948	242,461	910	709	1,619	125,423	118,657	244,080
1984	119,776	114,176	233,952	833	760	1,593	120,609	114,936	235,545
1985	126,753	120,480	247,233	814	704	1,518	127,567	121,184	248,751
1986	124,870	118,445	243,315	823	762	1,585	125,693	119,207	244,900

(a) See Explanatory Notes, paragraph 8. (b) Includes those where it was not known if the heartbeat ceased before or after delivery.