

New South Wales



1989
PERINATAL DEATHS
NEW SOUTH WALES

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**PERINATAL DEATHS
NEW SOUTH WALES
1989**

JOHN WILSON
Deputy Commonwealth Statistician

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INQUIRIES: • for further information about statistics in this publication and the availability of related unpublished statistics, contact the Demography Section on Sydney (02) 268 4454 or any ABS office.
 • for information about other ABS statistics and services please refer to the back cover of this publication.

Review of NSW Demographic Publications

As part of a publications rationalisation review being undertaken by the ABS, the following publications will be discontinued after the 1989 editions which are now available:

<i>Births, New South Wales</i>	Catalogue No. 3306.1
<i>Marriages, New South Wales</i>	Catalogue No. 3305.1
<i>Divorces, New South Wales</i>	Catalogue No. 3304.1
<i>Deaths, New South Wales</i>	Catalogue No. 3307.1
<i>Causes of Death, New South Wales</i>	Catalogue No. 3302.1
<i>Perinatal Deaths, New South Wales</i>	Catalogue No. 3303.1

However, in future years, a new publication, *DEMOGRAPHY, NEW SOUTH WALES* (Catalogue No. 3311.1) will be released, which will be a compendium of demographic data relating to New South Wales in the previous year. The 1990 edition (70 pages, \$25.00) will be released in November 1991 and contain information on the following topics:

Estimated Resident Population
Overseas and Inter-state Migration
Population Projections
Births, Deaths, Marriages and Divorces
Small Area Demographic Data
Historical Data

More detailed information on deaths and particularly causes of death will also be available in a new publication to be titled *DEATHS (INCLUDING CAUSES OF DEATH), NEW SOUTH WALES* (Catalogue No. 3312.1). The 1990 edition (24 pages, \$14.00) will be released in December 1991. Some perinatal deaths statistics for New South Wales will also be included but according to the criteria used for Australian perinatal death statistics. Data according to the existing criteria used in NSW will continue to be available on request. (See Explanatory Notes 2 and 3)

The following national publications will continue to be released in their present format and will include summary information for States and Territories:

<i>Births, Australia</i>	Catalogue No. 3301.0
<i>Marriages, Australia</i>	Catalogue No. 3306.0
<i>Divorces, Australia</i>	Catalogue No. 3307.0
<i>Deaths, Australia</i>	Catalogue No. 3302.0
<i>Causes of Death, Australia</i>	Catalogue No. 3303.0
<i>Perinatal Deaths, Australia</i>	Catalogue No. 3304.0

If vital statistics data are required prior to the release of the compendium, please contact Laurie Coleman on (02) 268 4454. Copies of any of the publications mentioned above may be purchased over the counter at the

ABS Bookshop, Level 3, St Andrew's House, Sydney Square, Sydney

Alternatively, clients wishing to receive publications on a regular basis may use the

ABS Publications Mailing Service (toll-free number 008 020 546)

Information on how to use this service may be obtained from any ABS Office. Clients who already use the Publications Mailing Service and who wish to amend their requirements can do so by contacting the ABS Bookshop — please remember to quote your account number.

For any additional details please contact:

Neville Cowley
Manager
Demography
NSW Office
(02) 268 4414

OR

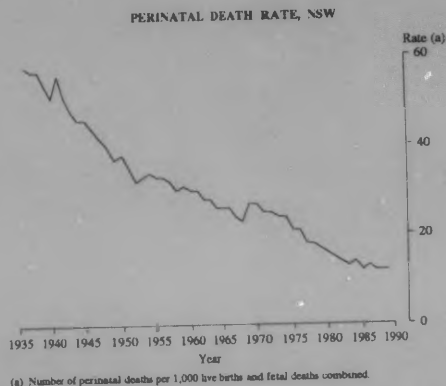
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GPO Box 796
Sydney NSW 2001
(02) 268 4620

MAIN FEATURES

In 1989 there were 1,017 perinatal deaths registered in NSW. This figure comprised 600 fetal deaths (stillbirths) and 417 neonatal deaths (children born alive who died within 28 days of birth).

Perinatal death rate

The perinatal death rate for NSW in 1989 was 11.8 per 1,000 live births and fetal deaths combined. This rate compares very favourably with the rate of 58.5 per 1,000 in 1936 when statistics of perinatal deaths were first recorded. It fell below 50 per 1,000 in 1943, below 40 in 1949, below 30 in 1961 and below 20 in 1977. (See Table 19.)



Time of cessation of heartbeat

In 1989 fetal deaths comprised 59 per cent of all perinatal deaths registered. Sixty four per cent of all fetal deaths occurred before the commencement of labour, and 53 per cent of all neonatal deaths occurred within the first day of life. (See Tables 10 and 15, and Graph on page 16.)

Causes of perinatal death

The leading cause of perinatal death (main condition in child) in 1989 was *hypoxia, birth asphyxia and other respiratory conditions*, which caused 36 per cent of all perinatal deaths, compared with 39 per cent in 1988. Other conditions originating in the perinatal period increased from 23 per cent to 24 per cent, while deaths due to congenital anomalies remained constant at 18 per cent of all perinatal deaths. (See Tables 11, 12 and 13.)

Birthweight

Forty seven per cent of fetal deaths and 39 per cent of neonatal deaths in 1989 involved children who weighed less than 1,000 grams. (See Table 16.)

Age of mother

Mothers aged 40 and over recorded by far the highest perinatal death rate in 1989 (27.7 deaths per 1,000 births (live births and fetal deaths combined). Mothers aged less than 20 years recorded the second highest perinatal death rate (14.8), while the lowest perinatal death rate (10.2) was recorded among mothers aged 25 to 29 years.

NOTES

This publication contains annual statistics of perinatal deaths registered in New South Wales, supplementing those published in the national publication *Perinatal Deaths, Australia* (Catalogue No. 3304.0).

Perinatal death statistics are compiled by the ABS from information contained on the *Medical Certificate of Cause of Perinatal Death* (see Appendix B). Perinatal deaths are registered in accordance with the *Registration of Births, Deaths and Marriages Act 1973*.

Statistics in this publication (except Table 2) relate to perinatal deaths registered in the calendar year and may be affected by delays in the registration process. Table 2 relates to perinatal deaths which occurred in the calendar year.

Explanatory notes and definitions are provided at the back of this publication.

JOHN WILSON

Deputy Commonwealth Statistician

Detailed data on deaths of NSW residents

The ABS also compiles annual statistics on deaths of New South Wales residents.

Deaths, New South Wales, 1989

Catalogue No. 3307.1 (\$11.30)

- Summary of deaths and rates
- Age at death and age-specific death rates
- Statistical local area of usual residence of deceased
- Cause of death (total deaths and infant deaths)
- Life expectancy at selected ages
- Historical data (Sydney (SD), balance of NSW, and total NSW)

You can order this publication from the ABS Bookshop on (02) 268 4620.

More detailed statistics on cause of death can be obtained in the publication:

Causes of Death, New South Wales, 1989

Catalogue No. 3302.1 (\$7.60)

TABLE 1. FETAL DEATHS, NEONATAL DEATHS AND PERINATAL DEATHS: NUMBER AND RATE BY SEX, NSW

Year	Fetal deaths			Neonatal deaths			Perinatal deaths		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
NUMBER									
1984	334	308	642	247	174	421	581	482	1,063
1985	293	262	555	298	227	525	591	489	1,080
1986	323	310	633	253	198	451	576	508	1,084
1987	334	285	619	244	205	449	578	490	1,068
1988	337	282	619	248	194	442	585	476	1,061
1989	325	275	600	240	177	417	565	452	1,017
RATE(a)									
1984	8.38	8.08	8.26	6.25	4.60	5.45	14.58	12.65	13.64
1985	6.50	6.13	6.32	6.65	5.35	6.02	13.11	11.45	12.30
1986	7.42	7.54	7.48	5.86	4.85	5.37	13.23	12.35	12.81
1987	7.57	6.76	7.18	5.57	4.90	5.24	13.10	11.63	12.38
1988	7.73	6.83	7.29	5.73	4.73	5.25	13.42	11.53	12.50
1989	7.37	6.55	6.97	5.48	4.25	4.88	12.81	10.77	11.82

(a) Number of fetal deaths or perinatal deaths per 1,000 live births and fetal deaths combined. Number of neonatal deaths per 1,000 live births.

TABLE 2. FETAL DEATHS, NEONATAL DEATHS AND PERINATAL DEATHS: MONTH AND YEAR OF OCCURRENCE(a), NSW

Month of occurrence	Fetal deaths			Neonatal deaths			Perinatal deaths		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
January	59	53	61	55	44	35	114	97	96
February	71	62	41	47	38	33	118	100	74
March	42	48	53	32	30	38	74	78	91
April	48	68	50	40	37	34	88	105	84
May	64	68	59	43	36	33	107	104	92
June	52	56	59	34	28	32	86	81	91
July	60	54	63	41	30	43	101	84	106
August	42	62	62	35	38	35	77	100	97
September	55	52	40	33	34	40	88	86	80
October	41	53	56	28	44	46	69	97	102
November	38	55	55	36	31	33	74	86	88
December	53	43	36	21	33	31	74	76	67
Total	625	674	635	445	420	433	1,070	1,094	1,068

(a) Figures in this table relate to perinatal deaths which occurred in each month of the above 3 years and were registered up to 30 June 1990. They are subject to minor revision due to registrations after that date. For further details see Explanatory Note 6.

TABLE 3. PERINATAL DEATHS: PERIOD OF GESTATION BY WEIGHT AT BIRTH, NSW, 1989

Weight at birth (grams)	Period of gestation (weeks)						Not stated	Total
	Under 22	22-27	28-31	32-40	37-41	42 and over		
Under 500	58	96	10	—	1	—	1	166
500 — 999	10	224	27	6	2	—	4	275
1,000 — 1,499	—	17	45	23	1	—	3	89
1,500 — 1,999	—	1	22	39	13	1	2	78
2,000 — 2,499	—	—	6	55	28	—	3	93
2,500 — 2,999	—	1	—	22	66	2	4	95
3,000 — 3,499	—	—	2	13	82	6	3	106
3,500 — 3,999	—	—	—	4	40	11	2	57
4,000 — 4,499	—	—	—	—	12	1	1	14
4,500 — 4,999	—	—	—	—	5	—	—	5
5,000 and over	—	—	—	—	—	—	—	—
Not stated	—	8	3	1	5	—	22	39
Total persons	68	347	115	165	255	22	45	1,017

TABLE 4. PERINATAL DEATHS: PLURALITY, NUMBER AND RATE, NSW, 1989

Plurality	Births		Perinatal deaths			Rate (a)		
	Live births	All births (b)	Fetal deaths	Neonatal deaths	Total	Fetal deaths	Neonatal deaths	Perinatal deaths
Single	83,322	83,871	549	343	892	6.55	4.12	10.64
Twins	2,061	2,109	48	60	108	22.76	29.11	51.21
Other plural births	81	84	3	14	17	35.71	172.64	202.38
Total persons	85,464	86,064	600	417	1,017	6.97	4.88	11.82

(a) Number of fetal deaths or perinatal deaths per 1,000 live births and fetal deaths combined of that plurality. Number of neonatal deaths per 1,000 live births of that plurality. (b) Live births and fetal deaths combined.

TABLE 5. PERINATAL DEATHS: ATTENDANT AT BIRTH(a), NSW, 1989

Attendant at birth(a)	Delivery resulting in-		Total
	Fetal death	Neonatal death	
Specialist obstetrician	289	250	539
Other physician	150	79	229
Trained midwife	139	49	188
Other trained person	—	—	—
Other	2	3	5
Not stated or unknown	20	36	56
Total deaths	600	417	1,017

(a) Where more than one attendant was present, the category of attendant selected was the highest in the order as shown above (which is as it appears in Item 9 of the Medical Certificate of Cause of Perinatal Death — see Appendix B).

TABLE 6. PERINATAL DEATHS: AGE GROUP OF MOTHER BY NUMBER OF PREVIOUS PREGNANCIES, NSW, 1989

Age group of mother (years)	Number of previous pregnancies										Total
	0	1	2	3	4	5	6	7	8	9 or more	
Under 20	47	20	1	1	—	—	—	—	—	—	72
20 — 24	102	61	34	8	6	4	—	—	—	—	218
25 — 29	109	84	69	29	14	14	7	2	1	1	335
30 — 34	43	72	54	37	13	11	8	7	—	—	252
35 — 39	12	23	21	6	15	6	4	2	2	2	94
40 and over	2	5	4	7	7	1	—	2	1	2	33
Not stated	3	3	2	1	—	—	—	—	—	—	13
Total	318	248	185	89	55	36	19	13	4	5	1,017

TABLE 7. PERINATAL DEATHS: AGE GROUP OF MOTHER
BY STATISTICAL DIVISION AND SELECTED STATISTICAL SUBDIVISIONS(a), NSW, 1989

Statistical area(a) of usual residence of mother	Age group of mother (years)							Not stated	Total
	Under 20	20-24	25-29	30-34	35-39	40 and over			
Inner Sydney (SSD)	4	7	11	14	4	1	—	1	42
Eastern Suburbs (SSD)	2	5	8	7	6	5	—	—	33
St George — Sutherland (SSD)	4	6	17	16	3	2	—	2	50
Canterbury — Bankstown (SSD)	5	16	32	9	12	—	—	3	77
Fairfield — Liverpool (SSD)	8	22	28	14	6	—	—	—	78
Outer South Western Sydney (SSD)	2	6	16	8	7	1	—	—	40
Inner Western Sydney (SSD)	2	2	8	11	5	3	—	—	31
Central Western Sydney (SSD)	—	12	16	16	2	2	—	—	48
Outer Western Sydney (SSD)	3	17	26	15	3	—	—	—	64
Blacktown — Baulkham Hills (SSD)	3	11	22	16	4	1	—	1	58
Lower Northern Sydney (SSD)	—	11	9	10	10	4	—	1	45
Hornsby — Ku-ring-gai (SSD)	1	1	3	11	3	1	—	—	20
Manly — Warringah (SSD)	—	8	9	7	3	3	—	1	31
Gosford — Wyong (SSD)	1	15	9	14	—	3	—	—	42
Sydney (SD)	35	139	214	168	68	26	—	9	659
Newcastle (SSD)	4	15	25	21	4	2	—	1	72
Hunter SD Balance (SSD)	—	4	2	3	1	—	—	1	11
Hunter (SD)	4	19	27	24	5	2	—	2	83
Wollongong (SSD)	5	5	16	13	1	—	—	—	40
Illawarra SD Balance (SSD)	3	2	2	5	1	—	—	—	13
Illawarra (SD)	8	7	18	18	2	—	—	—	53
Richmond — Tweed (SD)	1	4	6	4	2	1	—	—	18
Mid-North Coast (SD)	5	12	9	11	5	—	—	—	42
Northern (SD)	4	6	13	11	2	1	—	—	37
North Western (SD)	5	5	10	2	3	—	—	—	25
Central West (SD)	3	7	8	5	1	3	—	1	28
South Eastern (SD)	3	4	4	2	2	—	—	1	16
Murrumbidgee (SD)	4	9	12	5	3	—	—	—	33
Murray (SD)	—	2	7	1	1	—	—	—	11
Far West (SD)	—	1	2	—	—	—	—	—	3
NEW SOUTH WALES	72	215	330	251	94	33	—	13	1,008
Balance of Australia	—	3	5	1	—	—	—	—	9
Total NSW registrations	72	218	335	252	94	33	—	13	1,017

(a) See Explanatory Notes 4 and 11.

TABLE 8. FETAL DEATHS, NEONATAL DEATHS AND PERINATAL DEATHS IN STATISTICAL LOCAL AREAS(a), NSW, 1989

Statistical area(a) of usual residence of mother	Fetal deaths	Neonatal deaths	Perinatal deaths	Statistical area(a) of usual residence of mother	Fetal deaths	Neonatal deaths	Perinatal deaths
Bonney (M)	1	3	4	Manly (M)	3	1	4
Leichhardt (M)	3	4	7	Warringah (S)	13	14	27
Marrickville (M)	9	9	18	Manly—Warringah (SSD)	16	15	31
South Sydney (C) (b)	4	7	11				
Sydney (C) — Inner and Remainder (b)	—	2	2	Gosford (C)	21	7	28
Inner Sydney (SSD)	17	25	42	Wyong (S)	10	4	14
				Gosford—Wyong (SSD)	31	11	42
Randwick (M)	8	2	10				
Waverley (M)	9	2	11	SYDNEY (SD)	381	278	659
Woollahra (M)	8	4	12				
Eastern Suburbs (SSD)	25	8	33				
Hurstville (C)	4	3	7				
Kogarah (M)	4	1	5	Cessnock (C)	4	3	7
Rockdale (M)	9	9	18	Lake Macquarie (C)	12	12	24
Sutherland (S)	13	7	20	Maitland (C)	2	3	5
St George — Sutherland (SSD)	30	20	50	Newcastle (C) — Inner and Remainder	16	10	26
				Port Stephens (S)	6	4	10
Bankstown (C)	27	16	43	Newcastle (SSD)	40	32	72
Canterbury (M)	17	17	34				
Canterbury — Bankstown (SSD)	44	33	77	Dungog (S)	—	—	—
				Glenesfer (S)	—	—	—
Fairfield (C)	23	19	42	Great Lakes (S)	3	2	5
Liverpool (C)	25	11	36	Merrima (S)	—	1	1
Fairfield — Liverpool (SSD)	48	30	78	Murrumbidgee (S)	—	2	2
				Muswellbrook (S)	1	—	—
Camden (M)	2	1	3	Scots (S)	—	—	—
Campbelltown (C)	18	11	29	Singtelon (S)	1	—	1
Wollondilly (S)	4	4	8	Hunter SD Balance (SSD)	3	6	11
Outer South Western Sydney (SSD)	24	16	40				
				HUNTER (SD)	45	38	83
Ashfield (M)	5	5	10				
Burnwood (M)	2	1	3				
Concord (M)	2	1	3	Kiama (M)	1	2	3
Drummoyle (M)	6	4	10	Shellharbour (M)	9	3	12
Strathfield (M)	2	3	5	Wollongong (C)	16	9	25
Inner Western Sydney (SSD)	17	14	31	Wollongong (SSD)	26	14	40
Auburn (M)	9	5	14	Shoalhaven (C)	6	2	8
Holroyd (M)	5	4	9	Wingcarribee (S)	3	2	5
Parramatta (C)	14	11	25	Illawarra SD Balance (SSD)	9	4	13
Central Western Sydney (SSD)	28	20	48				
Blue Mountains (C)	8	7	15				
Hawkesbury (C)	5	4	9	ILLAWARRA (SD)	35	18	53
Penrith (C)	22	18	40				
Outer Western Sydney (SSD)	35	29	64				
Baulkham Hills (S)	8	5	13				
Blacktown (C)	20	25	45	Tweed (S) Pt A	—	1	1
Blacktown — Baulkham Hills (SSD)	28	30	58	Tweed Heads (SSD)	—	1	1
Hunter's Hill (M)	2	2	4				
Lane Cove (M)	1	—	—	Ballina (S)	4	—	4
Mosman (M)	—	—	—	Byron (S)	3	1	4
North Sydney (M)	6	4	10	Casino (M)	2	—	2
Ryde (M)	5	9	14	Kyogle (S)	1	—	1
Willoughby (C)	9	5	14	Lismore (C)	3	1	4
Lower Northern Sydney (SSD)	23	22	45	Richmond River (S)	1	—	1
				Tweed (S) Pt B	1	—	1
Hornsby (S)	11	1	12	Richmond — Tweed SD Balance (SSD)	15	2	17
Ku-ring-gai (M)	4	4	8				
Hornsby — Ku-ring-gai (SSD)	15	5	20	RICHMOND — TWEED (SD)	15	3	18

See footnotes at end of table.

TABLE 8. FETAL DEATHS, NEONATAL DEATHS AND PERINATAL DEATHS
IN STATISTICAL LOCAL AREAS(S), NSW, 1989—continued

Statistical area(a) of usual residence of mother	Fetal deaths	Neonatal deaths	Perinatal deaths	Statistical area(a) of usual residence of mother	Fetal deaths	Neonatal deaths	Perinatal deaths
Bellingen (S)	—	—	—	Coolah (S)	—	1	1
Coffs Harbour (C)	7	3	10	Coonabarabran (S)	—	1	1
Copmanhurst (S)	—	—	—	Dubbo (C)	3	—	3
Grafton (C)	—	2	2	Ogilandra (S)	2	—	2
Maclean (S)	1	—	1	Mudgee (S)	5	—	5
Nambucca (S)	2	—	2	Narromine (S)	3	2	5
Nymboida (S)	1	1	2	Wellington (S)	2	1	3
Ulmara (S)	—	—	—	Central Macquarie (SSD)	15	5	20
Clarence (SSD)	11	6	17	Bogan (S)	1	—	1
Greater Taree (C)	6	3	9	Coonamble (S)	—	—	—
Hastings (M)	3	3	6	Walgett (S)	—	1	1
Kempsey (S)	4	6	10	Warren (S)	—	1	1
Lord Howe Island	—	—	—	Macquarie—Barwon (SSD)	1	2	3
Hastings (SSD)	13	12	25	Bourke (S)	1	—	1
MID-NORTH COAST (SD)	24	18	42	Brewarrina (S)	1	—	1
				Cobar (S)	—	—	—
				Upper Darling (SSD)	2	—	2
				NORTH WESTERN (SD)	18	7	25
Barraba (S)	—	—	—				
Bingara (S)	—	—	—	Bathurst (C)	1	3	4
Gunnedah (S)	—	2	2	Blayney (S) Pt A	3	1	4
Inverell (S) Pt A	1	—	1	Cabonne (S) Pt A	—	—	—
Manilla (S)	—	—	—	Evans (S) Pt A	—	1	5
Nundle (S)	—	—	—	Orange (C)	4	—	—
Parry (S)	—	—	—	Bathurst—Orange (SSD)	8	5	13
Quirindi (S)	1	2	3	Blayney (S) Pt B	1	—	1
Tamworth (C)	2	8	10	Cabonne (S) Pt B	—	—	—
Yallaro (S)	—	—	—	Evans (S) Pt B	—	—	—
Northern Slopes (SSD)	4	12	16	Greater Lithgow (C)	1	—	1
Armidale (C)	2	1	3	Oberon (S)	1	—	1
Dumaresq (S)	—	—	—	Rylstone (S)	—	1	1
Glen Innes (M)	3	—	3	Central Tablelands	—	—	—
Guyra (S)	—	2	2	(excl. Bathurst—Orange) (SSD)	3	1	4
Inverell (S) Pt B	2	3	5	Bland (S)	2	—	2
Severn (S)	—	—	—	Cabonne (S) Pt C	1	1	2
Tenterfield (S)	—	—	—	Cowra (S)	1	1	2
Uralla (S)	—	1	—	Forbes (S)	—	1	1
Walcha (S)	—	—	—	Lachlan (S)	—	—	—
Northern Tablelands (SSD)	7	7	14	Parkes (S)	2	2	4
Moree Plains (S)	6	1	7	Weddin (S)	—	—	—
Narrabri (S)	—	—	—	Lachlan (SSD)	6	5	11
North Central Plain (SSD)	6	1	7				
NORTHERN (SD)	17	20	37	CENTRAL WEST (SD)	17	11	28

See footnotes at end of table.

TABLE 8. FETAL DEATHS, NEONATAL DEATHS AND PERINATAL DEATHS
IN STATISTICAL LOCAL AREAS(a), NSW, 1989—continued

Statistical area(a) of usual residence of mother	Fetal deaths	Neonatal deaths	Perinatal deaths	Statistical area(a) of usual residence of mother	Fetal deaths	Neonatal deaths	Perinatal deaths
Queanbeyan (C)	1	—	—	Albury (C)	4	1	5
Queanbeyan (SSD)	1	—	—	Hume (S)	—	1	—
				Albury (SSD)	—	—	—
Boorowa (S)	—	1	—				
Crookwell (S)	1	1	—	Corowa (S)	2	—	2
Goulburn (C)	3	1	—	Culcairn (S)	—	—	—
Chungung (S)	—	—	—	Holbrook (S)	—	—	—
Harden (S)	—	1	—	Tumbarumba (S)	—	—	—
Milwaree (S)	—	—	—	Urana (S)	—	—	—
Tallaganda (S)	—	—	—	Upper Murray (excl. Albury) (SSD)	2	—	2
Yarrowhula (S)	—	—	—				
Yass (S)	1	—	—	Berrigan (S)	—	—	—
Young (S)	—	—	—	Conargo (S)	—	—	—
Southern Tablelands (excl. Queanbeyan) (SSD)	5	4	9	Deniliquin (M)	2	2	4
				Jenildene (S)	—	—	—
Bega Valley (S)	—	3	3	Murray (S)	—	—	—
Eurobodalla (S)	1	2	3	Wakool (S)	—	—	—
Lower South Coast (SSD)	1	5	6	Windouran (S)	2	2	4
				Central Murray (SSD)	—	—	—
Bombala (S)	—	—	—	Balranald (S)	—	—	—
Cooma—Monaro (S)	—	—	—	Wentworth (S)	—	—	—
Snowy River (S)	—	—	—	Murray—Darling (SSD)	—	—	—
Snowy (SSD)	—	—	—				
				MURRAY (SD)	8	3	11
SOUTH EASTERN (SD)	7	9	16				
Coolamon (S)	—	—	—	Broken Hill (C)	1	—	1
Cootamundra (S)	4	—	4	Central Darling (S)	2	—	2
Oundagai (S)	—	—	—	Unincorporated Far West	—	—	—
Junee (S)	2	—	2				
Lockhart (S)	—	—	—	FAR WEST (SD)	3	—	3
Narrandera (S)	—	1	1				
Temora (S)	—	—	—				
Tumut (S)	4	2	6				
Wagga Wagga (C)	6	5	11				
Central Murrumbidgee (SSD)	16	8	24				
				NEW SOUTH WALES	593	415	1,008
Carrathool (S)	—	—	—				
Griffith (C)	6	2	8				
Hay (S)	—	—	—				
Leeton (S)	1	—	1	Balance of Australia	7	2	9
Murrumbidgee (S)	—	—	—				
Lower Murrumbidgee (SSD)	7	2	9				
MURRUMBIDGEE (SD)	23	10	33	Total NSW registrations	600	417	1,017

(a) As at 1 January 1989. See Explanatory Notes 4 and 11. (b) On 1 January 1989, part of the City of Sydney (estimated resident population 74,300) was transferred to create the new City of South Sydney.

TABLE 9. FETAL DEATHS, NEONATAL DEATHS AND PERINATAL DEATHS: CAUSE OF DEATH(a), NSW, 1989

Code number	Cause of death (a)	Fetal deaths	Neonatal deaths	Perinatal deaths
B1-B3	Slow fetal growth, fetal malnutrition and immaturity—			
B1	Slow fetal growth and fetal malnutrition	21	3	24
B2	Extreme immaturity	74	64	138
B3	Other preterm infants	3	—	3
B4-B5	Birth trauma—			
B4	Birth injury to brain, spine or spinal cord	—	6	6
B5	Other birth injury	1	1	2
B6-B15	Hypoxia, birth asphyxia and other respiratory conditions—			
B6	Fetal death from asphyxia or anoxia before onset of labour or at unspecified time	160	—	160
B7	Fetal death from asphyxia or anoxia during labour	43	—	43
B8	Fetal distress or birth asphyxia in liveborn infant	—	24	24
B9	Respiratory distress syndrome	—	32	32
B10	Congenital pneumonia	7	8	15
B11	Massive aspiration syndrome	7	14	21
B12	Interstitial emphysema and related conditions	—	11	11
B13	Pulmonary haemorrhage	—	5	5
B14	Atelectasis	—	34	34
B15	Other respiratory conditions of fetus and newborn	—	19	19
B16-B19	Fetal and neonatal haemorrhage—			
B16	Fetal blood loss	2	1	3
B17	Intraventricular haemorrhage	—	24	24
B18	Subarachnoid haemorrhage	2	—	2
B19	Other fetal and neonatal haemorrhage	—	—	—
B20-B21	Haemolytic disease of fetus or newborn—			
B20	Haemolytic disease due to rh isoimmunization	3	—	3
B21	Haemolytic disease due to other and unspecified isoimmunization	3	2	5
B22-B30	Other conditions originating in the perinatal period—			
B22	Disorders relating to long gestation and high birthweight	—	—	—
B23	Infections specific to the perinatal period	5	14	19
B24	Perinatal jaundice not due to isoimmunization	—	—	—
B25	Endocrine and metabolic disturbances specific to the fetus and newborn	1	—	1
B26	Haematological disorders of fetus and newborn	—	2	2
B27	Perinatal disorders of digestive system	1	6	7
B28	Hydrops fetalis not due to isoimmunization	6	9	15
B29	Other conditions involving the integument and temperature regulation of fetus and newborn	—	1	1
B30	Other and ill-defined conditions originating in the perinatal period	193	2	195
B31-B41	Congenital anomalies—			
B31	Anencephalus and similar anomalies	15	9	24
B32	Spina bifida	10	9	19
B33	Congenital hydrocephalus	2	8	10
B34	Other deformities of central nervous system	9	5	14
B35	Congenital anomalies of heart and circulatory system	2	33	35
B36	Congenital anomalies of respiratory system	—	11	11
B37	Congenital anomalies of digestive system	—	1	1
B38	Congenital anomalies of genital organs and urinary system	6	4	10
B39	Congenital anomalies of musculoskeletal system and limbs	7	16	23
B40	Chromosomal anomalies	10	14	24
B41	Other and unspecified congenital anomalies	7	4	11
B42-B46	Infectious and parasitic diseases—			
B42	Intestinal infectious diseases	—	—	—
B43	Septicaemia	—	—	—
B44	Viral diseases	—	1	1
B45	Congenital syphilis	—	—	—
B46	Other infectious and parasitic diseases	—	—	—
B47-B50	All other causes—			
B47	Pneumonia, other than congenital	—	—	—
B48	Other specified conditions	—	7	7
B49	Symptoms, signs and ill-defined conditions	—	11	11
B50	External causes of injury to newborn	—	2	2
	All causes	600	417	1,017

(a) Classified according to main disease or condition in child. See Explanatory Note 7.

TABLE 10. NEONATAL DEATHS(a): CAUSE OF DEATH(b) BY AGE AT DEATH, NSW, 1989

TABLE 10. CAUSE OF DEATH AND AGE AT DEATH

Code number	Cause of death(b)	Age at death										
		Minutes				Total under 1 hour	Hours					Total under 1 day
		Under 5	5-14	15-29	30-59		1	2	3-5	6-11	12-23	
B1-B3	Slow fetal growth, fetal malnutrition and immaturity	2	11	13	17	43	7	6	8	1	—	65
B2	Extreme immaturity	2	10	12	17	41	7	6	7	1	—	62
B4-B5	Birth trauma	—	—	—	—	—	—	—	1	1	—	2
B6-B15	Hypoxia, birth asphyxia and other respiratory conditions	3	8	10	3	24	15	9	8	11	20	87
B8	Fetal distress or birth asphyxia in liveborn infant	1	3	3	1	8	2	1	2	—	3	16
B9	Respiratory distress syndrome	—	—	—	—	—	1	2	3	3	6	15
B14	Atelectasis	2	3	5	2	12	7	2	2	4	2	29
B16-B19	Fetal and neonatal haemorrhage	—	—	—	1	1	1	—	1	1	1	5
B17	Intraventricular haemorrhage	—	—	—	1	1	—	—	1	1	1	4
B20-B21	Haemolytic disease of fetus or newborn	—	—	—	—	—	—	—	—	—	1	1
B22-B30	Other conditions originating in the perinatal period	1	1	4	1	7	—	—	3	3	3	16
B23	Infections specific to the perinatal period	—	1	2	—	3	—	—	—	2	2	7
B31-B41	Congenital anomalies	1	2	4	9	16	6	1	8	9	6	46
B35	Congenital anomalies of heart and circulatory system	—	—	—	—	—	—	—	1	3	1	5
B36	Congenital anomalies of respiratory system	1	—	—	—	1	—	—	1	2	2	6
B39	Congenital anomalies of musculoskeletal system and limbs	—	—	—	2	2	2	1	2	1	1	9
B42-B50	All other causes	1	—	—	—	1	—	—	—	—	—	1
All causes		8	22	31	31	92	29	16	29	26	31	223

Code number	Cause of death(b)	Age at death										
		Days					Total under 1 week	Weeks			Total	
		1	2	3	4	5		6	1	2		3
B1-B3	Slow fetal growth, fetal malnutrition and immaturity	1	1	—	—	—	—	67	—	—	—	67
B2	Extreme immaturity	1	1	—	—	—	—	64	—	—	—	64
B4-B5	Birth trauma	3	1	—	1	—	—	7	—	—	—	7
B6-B15	Hypoxia, birth asphyxia and other respiratory conditions	19	12	3	6	—	4	13	9	5	2	147
B8	Fetal distress or birth asphyxia in liveborn infant	2	1	—	1	—	1	21	2	1	—	24
B9	Respiratory distress syndrome	7	3	—	1	—	—	24	4	2	—	32
B14	Atelectasis	4	—	—	1	—	—	34	—	—	—	34
B16-B19	Fetal and neonatal haemorrhage	6	4	1	—	1	3	20	2	2	1	25
B17	Intraventricular haemorrhage	6	4	1	—	1	3	19	2	2	1	24
B20-B21	Haemolytic disease of fetus or newborn	—	—	—	1	—	—	2	—	—	—	2
B22-B30	Other conditions originating in the perinatal period	3	1	1	—	3	1	25	8	1	—	34
B23	Infections specific to the perinatal period	2	—	—	—	—	1	10	3	1	—	14
B31-B41	Congenital anomalies	13	8	7	3	6	3	86	13	8	7	114
B35	Congenital anomalies of heart and circulatory system	3	3	3	—	5	1	20	6	3	4	33
B36	Congenital anomalies of respiratory system	4	—	—	—	—	—	10	—	—	1	11
B39	Congenital anomalies of musculoskeletal system and limbs	2	—	—	2	—	—	13	3	—	—	16
B42-B50	All other causes	—	1	1	2	—	—	5	7	3	6	21
All causes		45	28	13	13	10	11	343	39	19	16	417

(a) See Explanatory Note 1. (b) Classified according to main disease or condition in child. See Explanatory Note 7.

TABLE 11. PERINATAL DEATHS: CAUSE OF DEATH(a) BY AGE GROUP OF MOTHER AND SEX OF CHILD, NSW, 1989

Code number	Cause of death(a)	Age group of mother (years)							Sex of child		
		Under 20	20-24	25-29	30-34	35-39	40 and over	Not stated	Males	Females	Persons
B1-B3	Slow fetal growth, fetal malnutrition and immaturity	21	35	43	43	15	7	1	84	81	165
B2	Extreme immaturity	19	30	33	37	12	6	1	71	67	138
B4-B5	Birth trauma	—	2	2	1	3	—	—	4	4	8
B6-B15	Hypoxia, birth asphyxia and other respiratory conditions	18	81	131	89	34	7	4	203	161	364
B6	Fetal death from asphyxia or anoxia before onset of labour or at unspecified time	6	35	60	38	18	3	—	86	74	160
B7	Fetal death from asphyxia or anoxia during labour	3	13	13	7	5	2	—	30	23	43
B9	Respiratory distress syndrome	1	7	11	10	3	—	—	22	10	32
B14	Atelectasis	2	7	13	11	—	—	1	21	13	34
B16-B19	Fetal and neonatal haemorrhage	—	6	6	11	3	2	1	15	14	29
B17	Intraventricular haemorrhage	—	4	4	10	3	2	1	13	11	24
B20-B21	Haemolytic disease of fetus or newborn	—	1	3	2	1	1	—	3	5	8
B22-B30	Other conditions originating in the perinatal period	21	50	81	53	23	8	2	148	92	240
B31-B41	Congenital anomalies	12	38	58	50	15	5	4	94	88	182
B31	Anencephalus and similar anomalies	1	7	8	5	3	—	—	15	9	24
B35	Congenital anomalies of heart and circulatory system	1	7	13	8	2	—	4	21	14	35
B36	Congenital anomalies of respiratory system	2	2	2	5	—	—	—	9	2	11
B39	Congenital anomalies of musculoskeletal system and limbs	1	5	6	7	2	2	—	8	15	23
B42-B50	All other causes	—	5	9	3	—	3	1	14	7	21
	All causes	72	218	335	252	94	33	13	565	451	1,017

(a) Classified according to main disease or condition in child. See Explanatory Note 7.

TABLE 12. PERINATAL DEATHS: CAUSE OF DEATH(a) BY PERIOD OF GESTATION, NSW, 1989

Code number	Cause of death(a)	Period of gestation (weeks)							Total persons	
		Under 22	22-27	28-31	32-36	37-41	42 and over	Not stated	Number	Percent
B1-B3	Slow fetal growth, fetal malnutrition and immaturity	35	104	10	11	1	—	4	165	16.2
B2	Extreme immaturity	35	100	1	—	—	—	2	138	13.6
B4-B5	Birth trauma	—	4	—	1	3	—	—	8	0.8
B6-B15	Hypoxia, birth asphyxia and other respiratory conditions	15	119	35	57	110	13	15	364	35.8
B6	Fetal death from asphyxia or anoxia before onset of labour or at unspecified time	5	28	18	34	68	3	4	160	15.7
B7	Fetal death from asphyxia or anoxia during labour	3	14	1	6	17	—	2	43	4.2
B9	Respiratory distress syndrome	—	21	6	4	—	—	1	32	3.1
B14	Atelectasis	2	28	2	1	—	—	1	34	3.3
B16-B19	Fetal and neonatal haemorrhage	—	16	6	2	4	—	1	29	2.9
B17	Intraventricular haemorrhage	—	16	5	1	1	—	1	24	2.4
B20-B21	Haemolytic disease of fetus or newborn	1	3	1	2	1	—	—	8	0.8
B22-B30	Other conditions originating in the perinatal period	11	67	45	49	55	4	9	240	23.6
B31-B41	Congenital anomalies	6	34	18	39	69	5	11	182	17.9
B31	Anencephalus and similar anomalies	—	11	2	3	7	—	1	24	2.4
B35	Congenital anomalies of heart and circulatory system	1	—	3	4	21	3	3	35	3.5
B36	Congenital anomalies of respiratory system	—	—	3	2	4	—	2	11	1.1
B39	Congenital anomalies of musculoskeletal system and limbs	—	2	2	5	12	1	1	23	2.3
B42-B50	All other causes	—	—	—	4	12	—	5	21	2.1
	All causes	68	347	115	165	235	22	45	1,017	100.0

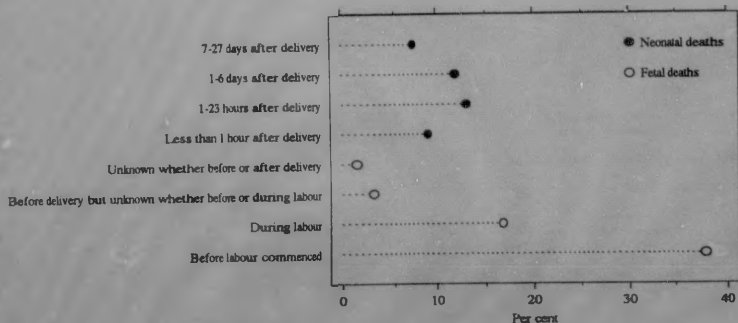
(a) Classified according to main disease or condition in child. See Explanatory Note 7.

TABLE 1.3. PERINATAL DEATHS: CAUSE OF DEATH(a)
BY MAIN MATERNAL DISEASE OR CONDITION AFFECTING CHILD, NSW, 1989

BY MAIN MATERNAL DISEASE OR CONDITION AFFECTING MATERNAL HEALTH							
		Main maternal disease or condition					
		Child affected by-					
Code number	Cause of death(s)	Maternal conditions which may be unrelated to present pregnancy	Maternal complications of pregnancy	Complications of placenta, cord and membranes	Other complications of labour and delivery	No maternal condition reported	Total
B1-B3	Slow fetal growth, fetal malnutrition and immaturity	21	84	57	2	1	165
B2	Extreme immaturity	10	81	45	2	—	138
B4-B5	Birth trauma	—	3	—	2	3	8
B6-B15	Hypoxia, birth asphyxia and other respiratory conditions	23	93	173	8	67	364
B6	Fetal death from asphyxia or anoxia before onset of labour or at unspecified time	11	8	112	—	29	160
B7	Fetal death from asphyxia or anoxia during labour	3	10	21	3	4	41
B9	Respiratory distress syndrome	3	22	4	1	2	32
B14	Atelectasis	1	21	11	—	1	34
B16-B19	Fetal and neonatal haemorrhage	3	13	8	—	3	29
B17	Intraventricular haemorrhage	1	13	6	—	4	24
B20-B21	Haemolysis, disease of fetus or newborn	—	—	1	—	7	8
B22-B30	Other conditions originating in the perinatal period	25	34	75	—	106	240
B31-B41	Congenital anomalies	9	41	4	1	127	182
B31	Anencephalus and similar anomalies	—	8	—	1	15	24
B35	Congenital anomalies of heart and circulatory system	3	1	—	—	31	35
B36	Congenital anomalies of respiratory system	—	4	1	—	6	11
B39	Congenital anomalies of musculoskeletal system and limbs	2	4	1	—	16	23
B42-B50	All other causes	—	3	—	—	18	21
	All causes	81	271	318	13	334	1,017

(a) Classified according to main disease or condition in child. See Explanatory Note 7.

PERINATAL DEATHS, NSW, 1989



Source: Tables 10 and 15

TABLE 14. PERINATAL DEATHS: MAIN MATERNAL DISEASE OR CONDITION (a)
BY AGE GROUP OF MOTHER AND SEX OF CHILD, NSW, 1969

		Age group of mother (% age)															
		Under 20		20-24		25-29		30-34		35-39		40 and over		Total (b)			
Code number	Main maternal disease or condition(a)	M	F	M	F	M	F	M	F	M	F	M	F	M	F	P	
M1-M4 Maternal conditions which may be unrelated to present pregnancy—																	
M1	Maternal hypertensive disorders	5	3	2	3	7	6	4	4	6	3	1	—	25	20	45	
M2	Maternal renal and urinary tract diseases	—	—	—	—	1	1	—	1	—	—	—	—	1	2	3	
M3	Maternal infections	3	—	1	1	1	—	1	—	—	—	—	—	6	1	7	
M4	Other maternal conditions	—	2	5	2	4	4	1	4	2	2	—	—	12	14	26	
M5-M9 Maternal complications of pregnancy—																	
M5	Incompetent cervix	—	—	3	6	8	1	3	1	1	1	2	—	17	9	26	
M6	Premature rupture of membranes	2	—	8	10	17	9	5	7	1	3	1	3	35	34	69	
M7	Polyhydramnios	1	—	3	1	6	2	3	1	1	—	—	—	14	4	18	
M8	Multiple pregnancy	1	—	—	1	5	—	3	1	—	—	—	—	9	2	11	
M9	Other maternal complications of pregnancy	7	5	17	7	19	18	28	24	8	8	4	1	83	64	147	
M10-M15 Complications of placenta, cord and membranes—																	
M10	Placenta praevia	1	—	—	—	2	2	1	1	1	2	—	1	5	6	11	
M11	Other placental separation and haemorrhage	7	8	15	10	23	21	22	9	6	1	—	—	73	49	122	
M12	Other and unspecified morphological and functional abnormalities of placenta	3	3	9	8	13	11	7	4	2	4	—	2	35	32	67	
M13	Prolapsed cord	—	—	1	2	—	—	3	—	—	—	—	—	4	2	6	
M14	Other compression of umbilical cord	2	—	5	10	8	11	11	7	4	2	1	2	31	32	63	
M15	Other complications of placenta, cord and membranes	—	1	5	7	11	7	6	6	4	1	1	—	27	22	49	
M16-M18 Other complications of labour and delivery—																	
M16	Breech delivery and extraction	—	—	—	1	1	—	1	—	—	—	—	—	2	1	3	
M17	Other malpresentation, malposition and disproportion during labour and delivery	—	1	1	1	1	—	—	—	2	—	—	—	4	2	6	
M18	Other complications of labour and delivery	—	—	—	1	—	1	1	—	1	—	—	—	1	3	4	
No maternal condition reported		7	10	38	34	62	52	46	36	16	12	9	5	181	153	334	
All causes		39	33	113	105	189	146	146	106	54	40	19	14	565	452	1,017	

(a) Classified according to main maternal disease or condition affecting child. See Explanatory Note 7. (b) Includes children whose mother's age was not stated

TABLE 15. PERINATAL DEATHS: CAUSE OF DEATH(a) BY TIME OF CESSATION OF HEARTBEAT, NSW, 1989

Code number	Cause of death(a)	Heartbeat ceased									
		Before labour commenced					During labour				
		Time dead in utero					Before delivery, but unknown whether before or during labour				
		Under 1 day	1-6 days	1-3 weeks	4 weeks and over	Not stated	Total	During labour	Before delivery, but unknown whether before or during labour	Unknown whether before or after delivery (b)	After delivery
M1-M4	Maternal conditions which may be unrelated to present pregnancy	10	21	4	1	2	38	9	1	1	16
M1	Maternal hypertensive disorders	7	13	1	—	—	21	7	1	1	9
M5-M9	Maternal complications of pregnancy	10	11	—	—	5	26	51	2	3	78
M5	Incompetent cervix	1	3	—	—	1	5	17	1	1	15
M6	Premature rupture of membranes	6	2	—	—	1	9	19	1	—	32
M8	Multiple pregnancy	1	3	—	—	—	4	2	—	2	14
M10-M15	Complications of placenta, cord and membranes	48	84	28	4	9	173	68	12	1	65
M10	Placenta praevia	2	1	—	—	—	3	4	1	—	4
M11	Other placental separation and haemorrhage	26	10	4	—	3	43	39	3	—	39
M12	Other and unspecified morphological and functional abnormalities of placenta	5	38	9	1	4	57	7	—	—	3
M13	Proapsed cord	1	—	—	—	1	2	1	—	—	1
M14	Other compression of umbilical cord	10	26	12	—	1	49	6	6	1	1
M15	Other complications of placenta, cord and membranes	4	9	3	3	1	20	1	—	—	17
M16-M18	Other complications of labour and delivery	—	—	—	—	—	—	7	—	—	8
B1-B3	Slow fetal growth, fetal malnutrition and immaturity	—	1	1	—	—	2	—	—	—	2
B4-B5	Birth trauma	—	—	—	—	—	—	—	—	—	4
B6-B15	Hypoxia, birth asphyxia and other respiratory conditions	3	20	5	—	3	31	6	1	—	53
B6	Fetal death from asphyxia or anoxia before onset of labour or at unspecified time	3	16	5	—	3	27	—	1	—	28
B16-B19	Fetal and neonatal haemorrhage	—	2	—	—	—	2	1	—	—	24
B17	Intraventricular haemorrhage	—	—	—	—	—	—	—	—	—	24
B20-B21	Haemolytic disease of fetus or newborn	1	3	—	—	1	5	—	1	—	3
B22-B30	Other conditions originating in the perinatal period	15	42	18	1	7	83	2	4	2	21
B23	Infections specific to the perinatal period	—	1	—	—	—	1	—	—	—	7
B31-B41	Congenital anomalies	5	9	8	—	3	25	28	7	6	123
B31	Anencephalus and similar anomalies	2	1	1	—	4	8	—	—	3	9
B32	Spina bifida	—	—	—	—	—	—	6	4	—	9
B33	Congenital hydrocephalus	—	—	1	—	1	2	1	—	—	9
B34	Other deformities of central nervous system	2	—	—	—	2	4	2	1	—	5
B35	Congenital anomalies of heart and circulatory system	—	1	—	—	1	2	—	—	—	31
B36	Congenital anomalies of respiratory system	—	—	—	—	—	—	—	—	—	10
B37	Congenital anomalies of digestive system	—	—	—	—	—	—	—	—	—	1
B38	Congenital anomalies of genital organs and urinary system	—	1	—	—	1	2	2	1	1	8
B39	Congenital anomalies of musculoskeletal system and limbs	—	1	4	—	5	1	—	—	—	18
B40	Chromosomal anomalies	1	2	2	—	5	4	—	1	1	18
B41	Other and unspecified congenital anomalies	—	3	—	—	1	4	2	—	—	5
B42-B50	All other causes	—	1	1	—	—	2	—	—	—	22
	All causes	92	194	65	6	30	387	172	28	13	417

(a) Classified according to underlying cause of death. See Explanatory Note 8. (b) Child did not breathe after delivery.

TABLE 16. FETAL DEATHS, NEONATAL DEATHS AND PERINATAL DEATHS: CAUSE OF DEATH (ABBREVIATED)(a)
BY WEIGHT AT BIRTH, NSW, 1989

Cause of death	Weight at birth (grams)										Total (b)
	Under 500	500 to 999	1,000 to 1,499	1,500 to 1,999	2,000 to 2,499	2,500 to 2,999	3,000 to 3,499	3,500 to 3,999	4,000 and over		
FETAL DEATHS											
Maternal conditions which may be unrelated to present pregnancy	11	11	5	6	4	5	4	1	2	49	
Maternal complications of pregnancy	39	27	3	2	3	1	2	1	1	82	
Complications of placenta, cord and membranes	48	57	22	19	25	31	31	11	4	254	
Other complications of labour and delivery	1	1	—	—	—	1	2	2	—	7	
Slow fetal growth, fetal malnutrition and immaturity	—	—	—	—	1	1	—	—	—	2	
Birth trauma	—	—	—	—	—	—	—	—	—	—	
Hypoxia, birth asphyxia and other respiratory conditions	4	6	3	3	5	4	9	4	—	38	
Fetal and neonatal haemorrhage	—	—	1	—	—	—	1	1	—	3	
Haemolytic disease of fetus or newborn	—	4	—	—	2	—	—	—	—	6	
Other conditions originating in the perinatal period	10	30	12	11	12	8	10	6	—	91	
Congenital anomalies	22	18	6	9	5	2	1	—	—	66	
Infectious and parasitic diseases and all other causes	—	1	—	—	—	—	—	1	—	2	
All causes	135	145	52	50	57	53	60	27	7	600	
NEONATAL DEATHS											
Maternal conditions which may be unrelated to present pregnancy	3	4	1	1	1	2	1	2	—	16	
Maternal complications of pregnancy	17	42	8	3	—	1	1	—	1	78	
Complications of placenta, cord and membranes	9	37	6	—	2	1	5	4	—	65	
Other complications of labour and delivery	—	2	1	1	—	—	3	1	—	8	
Slow fetal growth, fetal malnutrition and immaturity	—	—	—	—	—	—	—	—	—	—	
Birth trauma	—	1	1	—	—	1	1	—	—	4	
Hypoxia, birth asphyxia and other respiratory conditions	2	19	5	4	4	4	3	8	2	53	
Fetal and neonatal haemorrhage	—	15	4	2	1	1	—	—	—	24	
Haemolytic disease of fetus or newborn	—	—	—	—	2	—	1	—	—	3	
Other conditions originating in the perinatal period	—	4	4	2	3	2	5	—	—	21	
Congenital anomalies	—	6	7	15	20	27	19	14	7	123	
Infectious and parasitic diseases and all other causes	—	—	—	—	3	3	7	1	2	22	
All causes	31	130	37	28	36	42	46	30	12	417	
PERINATAL DEATHS											
Maternal conditions which may be unrelated to present pregnancy	14	15	6	7	5	7	5	3	2	65	
Maternal complications of pregnancy	56	69	11	5	3	2	3	1	2	160	
Complications of placenta, cord and membranes	57	94	28	19	27	32	36	15	4	319	
Other complications of labour and delivery	—	3	1	1	—	1	5	3	—	15	
Slow fetal growth, fetal malnutrition and immaturity	—	—	—	—	1	1	—	—	—	2	
Birth trauma	—	1	1	—	—	1	1	—	—	4	
Hypoxia, birth asphyxia and other respiratory conditions	6	25	8	7	9	8	12	12	2	91	
Fetal and neonatal haemorrhage	—	15	5	2	1	1	1	1	—	27	
Haemolytic disease of fetus or newborn	—	4	—	—	4	—	1	—	—	9	
Other conditions originating in the perinatal period	10	34	16	13	15	10	15	6	—	112	
Congenital anomalies	22	24	13	24	25	29	20	14	7	189	
Infectious and parasitic diseases and all other causes	—	1	—	—	3	3	7	2	2	24	
All causes	166	275	89	78	93	95	106	57	19	1,017	

(a) Classified according to underlying cause of death. See Explanatory Note 8. (b) Includes children whose weight at birth was not stated.

TABLE 17. PERINATAL DEATHS: CAUSE OF DEATH(a) (ABBREVIATED) BY SEX, NSW

Cause of death	Sex	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Maternal conditions which may be unrelated to present pregnancy	M	71	52	43	42	36	47	33	41	40	48	34
	F	50	32	39	42	27	45	34	36	44	26	31
Maternal complications of pregnancy	M	101	123	102	109	70	66	79	89	77	81	97
	F	76	96	92	71	70	61	60	56	66	73	63
Complications of placenta, cord and membranes	M	222	194	197	194	178	175	188	181	187	205	172
	F	167	133	148	165	136	165	133	163	146	141	147
Other complications of labour and delivery	M	17	25	10	20	15	14	12	3	9	11	8
	F	15	10	10	11	12	5	3	4	7	10	7
Slow fetal growth, fetal malnutrition and immaturity	M	11	4	1	2	1	3	2	2	4	2	—
	F	17	2	2	1	2	1	—	3	4	2	2
Birth trauma	M	10	5	3	4	1	2	2	4	4	—	1
	F	6	3	2	3	—	1	3	1	—	1	3
Hypoxia, birth asphyxia and other respiratory conditions	M	64	81	53	48	54	38	46	51	43	57	50
	F	55	56	47	50	41	39	50	58	32	39	41
Fetal and neonatal haemorrhage	M	17	17	27	29	33	23	31	18	20	17	14
	F	8	15	25	24	16	11	18	17	5	8	13
Haemolytic disease of fetus or newborn	M	3	4	7	5	8	7	6	3	1	4	4
	F	8	8	8	3	6	6	5	8	2	2	5
Other conditions originating in the perinatal period	M	69	61	50	52	47	47	43	48	62	48	73
	F	58	54	43	51	50	38	45	40	49	65	39
Congenital anomalies	M	131	140	163	120	128	139	135	119	108	99	98
	F	126	94	120	141	130	98	121	113	121	95	91
Infectious and parasitic diseases	M	1	1	—	3	1	2	1	1	1	—	—
	F	—	—	1	—	1	2	4	—	—	1	2
All other causes	M	18	24	16	14	18	18	13	16	22	13	14
	F	7	12	9	14	8	10	13	9	14	13	8
All causes	M	735	731	472	642	590	581	591	576	578	585	565
	F	593	515	546	576	499	482	489	508	490	476	452
	P	1,328	1,246	1,018	1,218	1,089	1,063	1,080	1,084	1,068	1,061	1,017

(a) Classified according to underlying cause of death. See Explanatory Note 8.

TABLE 18. PERINATAL DEATHS OF ABORIGINALS AND NON-ABORIGINALS, SYDNEY STATISTICAL DIVISION AND BALANCE OF NSW, 1989

Racial origin	Fetal deaths		Neonatal deaths		Perinatal deaths		Total (a)
	Sydney (SD)	Balance of NSW	Sydney (SD)	Balance of NSW	Sydney (SD)	Balance of NSW	
Aboriginal	1	14	3	8	4	22	26
Non-Aboriginal	380	198	275	129	655	327	991
Total persons	381	212	278	137	659	349	1,017

(a) Includes children whose mothers were usually resident outside NSW, but within Australia. See Explanatory Notes 4 and 11.

TABLE 19. BIRTHS AND PERINATAL DEATHS, NSW

Year	Total live births and fetal deaths		Perinatal deaths				Rate (a)		
			Number				Rate (a)		
	Live births	Fetal deaths	Fetal deaths	Neonatal deaths	Total	Fetal deaths	Neonatal deaths	Total	
1936	46,193	47,612	1,419	1,366	2,785	29.80	29.57	58.49	
1937	47,497	48,949	1,452	1,348	2,800	29.66	28.38	57.20	
1938	47,319	48,792	1,473	1,320	2,793	30.19	27.90	57.24	
1939	48,003	49,363	1,360	1,317	2,677	27.55	27.44	54.23	
1940	49,382	50,724	1,342	1,263	2,605	26.46	25.58	51.36	
1941	51,729	53,193	1,464	1,527	2,991	27.52	29.52	56.23	
1942	52,647	54,058	1,411	1,342	2,753	26.10	25.49	50.93	
1943	57,265	58,730	1,465	1,365	2,830	24.94	23.84	48.19	
1944	59,512	61,123	1,511	1,309	2,820	24.72	21.96	46.14	
1945	61,662	63,202	1,540	1,344	2,884	24.37	21.80	45.63	
1946	67,247	68,794	1,547	1,477	3,024	22.49	21.96	43.96	
1947	69,398	70,864	1,466	1,489	2,955	20.69	21.46	41.70	
1948	67,234	68,560	1,336	1,434	2,760	19.34	21.33	40.26	
1949	68,812	70,091	1,279	1,334	2,603	18.25	19.24	37.14	
1950	71,592	72,998	1,406	1,345	2,751	19.26	18.79	37.69	
1951	72,069	73,360	1,291	1,298	2,589	17.60	18.01	35.29	
1952	74,196	75,391	1,195	1,229	2,424	15.85	16.56	32.15	
1953	74,890	76,147	1,257	1,266	2,543	16.51	17.17	33.40	
1954	73,125	74,332	1,207	1,294	2,501	16.24	17.70	33.65	
1955	74,407	75,650	1,243	1,288	2,531	16.43	17.31	33.46	
1956	75,714	76,987	1,273	1,285	2,558	16.54	16.97	33.23	
1957	79,456	80,738	1,282	1,302	2,584	15.88	16.39	32.00	
1958	80,045	81,253	1,208	1,225	2,433	14.87	15.30	29.94	
1959	80,866	82,107	1,241	1,324	2,565	15.11	16.37	31.24	
1960	81,983	83,244	1,261	1,250	2,511	15.15	15.25	30.16	
1961	86,392	87,698	1,306	1,284	2,590	14.89	14.86	29.53	
1962	85,439	86,538	1,099	1,321	2,420	12.70	15.46	27.96	
1963	84,065	85,230	1,165	1,185	2,350	13.67	14.10	27.57	
1964	80,518	81,521	1,003	1,152	2,155	12.30	14.31	26.43	
1965	78,069	79,016	947	1,087	2,034	11.98	13.92	25.74	
1966	77,776	78,740	964	1,085	2,049	12.24	13.95	26.02	
1967	78,841	79,704	863	1,058	1,921	10.83	13.42	24.10	
1968 (b)	81,696	82,502	806	1,123	1,929	9.77	13.75	23.38	
1969 (b)	86,036	87,116	1,080	1,235	2,315	12.40	14.35	26.57	
1970	88,448	89,602	1,154	1,309	2,463	12.88	14.80	27.49	
1971	98,466	99,648	1,182	1,260	2,442	11.86	12.80	24.51	
1972	95,278	96,429	1,151	1,237	2,388	11.94	12.98	24.76	
1973	87,332	88,360	1,028	1,105	2,133	11.63	12.65	24.14	
1974	86,162	87,198	1,036	1,057	2,093	11.88	12.27	24.00	
1975	80,918	81,713	795	897	1,692	9.73	11.09	20.71	
1976	78,492	79,328	836	838	1,674	10.54	10.68	21.10	
1977	77,996	78,755	759	683	1,442	9.64	8.76	18.31	
1978	77,773	78,502	729	685	1,414	9.29	8.81	18.01	
1979	77,134	77,852	718	610	1,328	9.22	7.91	17.06	
1980	79,455	80,131	676	570	1,246	8.44	7.17	15.55	
1981	81,530	82,216	686	532	1,218	8.34	6.53	14.81	
1982	83,489	84,174	685	533	1,218	8.14	6.38	14.47	
1983	82,739	83,325	586	503	1,089	7.03	6.08	13.07	
1984	77,314	77,956	642	421	1,063	8.24	5.45	13.64	
1985	87,258	87,813	555	525	1,080	6.32	6.02	12.30	
1986	84,009	84,642	633	451	1,084	7.48	5.37	12.81	
1987	85,650	86,269	619	449	1,068	7.18	5.24	12.38	
1988	84,268	84,887	619	442	1,061	7.29	5.25	12.50	
1989	85,464	86,064	600	417	1,017	6.97	4.88	11.82	

(a) Number of fetal deaths or perinatal deaths per 1,000 live births and fetal deaths combined. Number of neonatal deaths per 1,000 live births.

(b) See Explanatory Notes 1 and 2.

EXPLANATORY NOTES

Statistics of perinatal deaths shown in this publication refer to the registrations in New South Wales of:

- (a) Fetal deaths (still-births) (see Note 2 below); and
- (b) Neonatal deaths — children born alive (i.e. breathed or showed other evidence of life such as a heartbeat) who died within 28 days of birth.

Definitions

2. In NSW, statistics of fetal deaths for 1969 and subsequent years relate to the delivery of a child, weighing at least 400 grams at delivery or of at least 20 weeks' gestation, who did not, at any time after delivery, breathe or show any other evidence of life such as a heartbeat. (Where it is unknown if cessation of heartbeat occurred before or after delivery, such cases are classified as fetal deaths). The statistics of fetal deaths (and hence perinatal deaths) for 1969 and subsequent years are not comparable with statistics for 1968 and earlier years owing to the change in the definition of a fetal death. The number of neonatal deaths registered may also have been affected to some extent by this change.

3. The current definition of a perinatal death, in use in NSW since 1969, differs from that used in compiling Australian perinatal death statistics. The definition used for Australia, as a whole, is based on the recommendation of the Ninth Revision Conference (1975) of the World Health Organisation (WHO) 'that national perinatal statistics should 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), whether alive or dead'. Figures for NSW on the above definition can be found in the publication *Perinatal Deaths, Australia* (3304.0).

Usual residence

4. NSW vital statistics are generally published on a State of usual residence basis. However, all statistics in this publication relate to events registered in NSW only, because of the differences in the definition of a perinatal death between NSW and the other States — see Note 3 above. Therefore the number of neonatal deaths shown in this publication differs from the number of deaths under one month published in *Deaths, New South Wales, 1989* (3307.1). There were 417 neonatal deaths registered in NSW in 1989, including 2 where the usual residence of the mother was outside NSW. In addition, there were 33 neonatal deaths registered outside NSW, but within Australia, where the usual residence of the mother was in NSW, resulting in the figure of 448 which is published in *Deaths, New South Wales, 1989* and relates to the State or Territory of usual residence of the mother.

Registration delays

5. Statistics in this publication (except Table 2) relate to perinatal deaths registered in the calendar year, and may be affected by delays in the registration processes.

6. As a result of normal delays in registration, some perinatal deaths occurring in one year are not registered until the following year or even later. However, 98 per cent of all perinatal deaths are usually registered within 3 months of the month of occurrence. Table 2 shows the numbers of fetal deaths, neonatal deaths and total perinatal deaths which occurred in each month of the years 1987 to 1989 and were registered up to 30 June 1990.

Classification of causes of death

7. From 1 January 1979 causes of perinatal death have been classified in accordance with the *International Statistical Classification of Diseases, Injuries and Causes of Death* (ICD), Ninth Revision (1975). In this classification the cause of death is assigned to the main disease or condition in the child (i.e. the pathological condition which in the opinion of the certifier made the greatest contribution to the death of the child). Where applicable, perinatal deaths are also assigned to the main maternal disease or condition affecting child (i.e. the disease or condition in the mother which in the certifier's opinion had some adverse effect on the child). A change to the Medical Certificate of Cause of Perinatal Death was recommended by the World Health Organisation to elicit this information. However, the revised certificate (see Appendix B) was not introduced in New South Wales until 1 January 1980. Consequently, for 1979 an interpretation based on information provided on the old certificate was necessary to enable the ICD, Ninth Revision, rules to be applied.

8. Statistics of cause of death are presented in this publication as follows:

- (a) for deaths classified according to the main condition in child, the nationally approved B List of 50 causes of perinatal death (see Appendix A) is used for Table 9 and an abridged version, showing the major diseases and conditions, is used for the other tables.
- (b) for deaths classified according to the main maternal condition affecting the child, the nationally approved M List of 18 main maternal diseases or conditions affecting the child (see Appendix A) is used.
- (c) for deaths classified according to underlying cause, a concatenation of the M List and the B List (abridged) is used. Note that, although this is a composite list, the inclusions in each category are derived independently of the causes of death reported as the main condition in the child or the main maternal condition affecting the child.

Data quality

9. 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 the Registry of Births, Deaths and Marriages.

10. 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.

Statistical areas of New South Wales

11. This publication contains data presented according to the Australian Standard Geographical Classification (ASGC). Under this classification, statistical areas are defined as follows:

Statistical Local Areas (SLAs)

These geographical areas are, in almost all cases, identical with, or have been formed from a division of legal local government areas (LGAs) as defined under the (State) Local Government Act 1919 and comprising cities (C), municipalities (M) and shires (S). In other cases, they represent areas which are unincorporated under the Act. In aggregate, SLAs cover the whole of the State without gaps or overlaps. In some cases legal LGAs overlap statistical subdivision boundaries and therefore comprise two SLAs (Part A and Part B) or three SLAs in the case of Cabonne (S) (Part A, Part B and Part C).

Statistical Subdivisions (SSDs)

These consist of one or more SLAs and form the intermediate size spatial unit for the presentation of regional data.

Statistical Divisions (SDs)

These consist of one or more statistical subdivisions (SSDs). Where SSDs are not shown, statistical local areas are ordered alphabetically within statistical divisions. The divisions are designed to be relatively homogeneous regions characterised by identifiable social and economic units within the region, under the unifying influence of one or more major towns or cities.

12. Further information concerning statistical areas is contained in the publication *Regional Statistics, New South Wales* (1304.1) and in the publication *Australian Standard Geographical Classification* (1216.0).

Additional statistics available

13. In some cases, the ABS can also make available information which is not published. This information may be made available in one or more of the following forms: floppy disk, microfiche, photocopy, computer printout, clerically-extracted tabulation. A charge is made for providing unpublished information. Inquiries should be made as shown in the inquiries section at the front of this publication.

Related publications

14. Other ABS publications which may be of interest to users of this publication include:

Births, New South Wales (3306.1)

Deaths, New South Wales (3307.1)

Causes of Death, New South Wales (3302.1)

Perinatal Deaths, Australia (3304.0)

Symbols and other usages

C	City
M	Municipality
S	Shire
SD	Statistical Division
SSD	Statistical Subdivision
..	not applicable
—	nil or rounded to zero

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

APPENDIX A

M LIST OF 18 MAIN MATERNAL DISEASES OR CONDITIONS AFFECTING CHILD

Code	Description	International Code Number
	<i>Maternal conditions which may be unrelated to present pregnancy</i>	
M1	Maternal hypertensive disorders	760.0
M2	Maternal renal and urinary tract diseases	760.1
M3	Maternal infections	760.2
M4	Other maternal conditions	Rem. 760
	<i>Maternal complications of pregnancy</i>	
M5	Incompetent cervix	761.0
M6	Premature rupture of membranes	761.1
M7	Polyhydramnios	761.3
M8	Multipic pregnancy	761.5
M9	Other maternal complications of pregnancy	Rem. 761
	<i>Complications of placenta, cord and membranes</i>	
M10	Placenta praevia	762.0
M11	Other placental separation and haemorrhage	762.1
M12	Other and unspecified morphological and functional abnormalities of placenta	762.2
M13	Prolapsed cord	762.4
M14	Other compression of umbilical cord	762.5
M15	Other complications of placenta, cord and membranes	Rem. 762
	<i>Other complications of labour and delivery</i>	
M16	Breech delivery and extraction	763.0
M17	Other malpresentation, malposition and disproportion during labour and delivery	763.1
M18	Other complications of labour and delivery	Rem. 763

B LIST OF 50 CAUSES OF PERINATAL MORTALITY (CONDITIONS OF CHILD)

Code	Description	International Code Number
	<i>Slow fetal growth, fetal malnutrition and immaturity</i>	
B1	Slow fetal growth and fetal malnutrition	764
B2	Iatreme immaturity	765.0
B3	Other preterm infants	765.1
	<i>Birth trauma</i>	
B4	Birth injury to brain, spine or spinal cord	767.0, 767.4
B5	Other birth injury	Rem. 767
	<i>Hypoxia, birth asphyxia and other respiratory conditions</i>	
B6	Fetal death from asphyxia or anoxia before onset of labour or at unspecified time	768.0
B7	Fetal death from asphyxia or anoxia during labour	768.1
B8	Fetal distress or birth asphyxia in liveborn infant	768.2-768.9
B9	Respiratory distress syndrome	769
B10	Congenital pneumonia	770.0
B11	Massive aspiration syndrome	770.1
B12	Interstitial emphysema and related conditions	770.2
B13	Pulmonary haemorrhage	770.3
B14	Atelectasis	770.4-770.5
B15	Other respiratory conditions of fetus and newborn	770.6-770.9
	<i>Fetal and neonatal haemorrhage</i>	
B16	Fetal blood loss	772.0
B17	Intraventricular haemorrhage	772.1
B18	Subarachnoid haemorrhage	772.2
B19	Other fetal and neonatal haemorrhage	772.3-772.9
	<i>Haemolytic disease of fetus or newborn</i>	
B20	Haemolytic disease due to Rh isosensitization	773.0
B21	Haemolytic disease due to other and unspecified isosensitization	773.1-773.5
	<i>Other conditions originating in the perinatal period</i>	
B22	Disorders relating to long gestation and high birthweight	766
B23	Infections specific to the perinatal period	771
B24	Perinatal jaundice not due to isosensitization	774
B25	Endocrine and metabolic disturbances specific to the fetus and newborn	775
B26	Haematological disorders of fetus and newborn	776
B27	Perinatal disorders of digestive system	777
B28	Hydrops fetalis not due to isosensitization	778.0
B29	Other conditions involving the integument and temperature regulation of fetus and newborn	778.1-778.9
B30	Other and ill-defined conditions originating in the perinatal period	779
	<i>Congenital anomalies</i>	
B31	Anencephalus and similar anomalies	740
B32	Spina bifida	741
B33	Congenital hydrocephalus	742.3
B34	Other deformities of central nervous system	Rem. 742
B35	Congenital anomalies of heart and circulatory system	745-747
B36	Congenital anomalies of respiratory system	748
B37	Congenital anomalies of digestive system	749-751
B38	Congenital anomalies of genital organs and urinary system	752, 753
B39	Congenital anomalies of musculoskeletal system and limbs	754-756
B40	Chromosomal anomalies	758
B41	Other and unspecified congenital anomalies	743, 744, 757, 759
	<i>Infectious and parasitic diseases</i>	
B42	Intestinal infectious diseases	001-009
B43	Septicaemia	038
B44	Viral diseases	045-079
B45	Congenital syphilis	090
B46	Other infectious and parasitic diseases	Rem. 001-139
	<i>All other causes</i>	
B47	Pneumonia, other than congenital	480-486
B48	Other specified conditions	Rem. 140-739
B49	Symptoms, signs and ill-defined conditions	780-799
B50	External causes of injury to newborn	E800-E999

APPENDIX B

NEW SOUTH WALES

Registration of Births, Deaths and Marriages Act, 1973



Medical Certificate of Cause of Perinatal Death

NOTE—Please fill in relevant boxes thus ☒

Particulars relating to Mother

1. Full name _____

2. Address of usual residence _____ or Age last birthday _____ years

3. Date of birth (if known) _____

4. Number of previous pregnancies resulting in:
 Live births only _____
 Still-births _____
 Abortions _____

5. Outcome of last previous pregnancy:
 Live birth ☐
 Still-birth ☐
 Abortion ☐
 Date _____

6. Current pregnancy:
 1st day of last menstrual period _____
 or, if unknown, estimated duration of pregnancy (completed weeks) _____

7. Antinatal care, two or more visits:
 Yes ☐
 No ☐
 Not known ☐

8. Delivery:
 Normal spontaneous vertex ☐
 Other (specify) _____

9. Attendant at birth/still-birth:
 Specialist Obstetrician ☐
 Other Physician ☐
 Trained midwife ☐
 Other trained person (specify) _____
 Other (specify) _____

10. Is the mother considered to be an Australian Aborigine? Yes ☐ No ☐

Particulars relating to Child

11. Surname and other names, if given _____

12. Sex: Male ☐ Female ☐ Indeterminate ☐

13. Time and date of birth: still-birth _____ a.m./p.m. on _____ 19____

14. Date of death, if live born _____ 19____

15. Age at death _____ (minutes, hours or days)

16. Place of death: still-birth _____ Place of birth (if elsewhere) _____

17. This birth was: Single ☐ First Twin ☐ Second Twin ☐ Other Multiple ☐

18. Weight at birth _____ grammes

19. Did child breathe after complete expulsion or extraction from the mother? Yes ☐ No ☐

20. Did heart beat cease—
 (a) Before labour commenced ☐
 (b) During labour but before delivery ☐
 (c) Before delivery but not known whether before or during labour ☐
 (d) After delivery ☐
 (e) Not known whether before or after delivery ☐

21. If heart beat ceased before labour commenced, please estimate how long before _____ hours, or _____ days.

22. If heart beat ceased after delivery, please state time _____ a.m./p.m., and date _____

23. CAUSES OF DEATH (IN BLOCK LETTERS)

- (a) Main disease or condition in foetus or infant—
- (b) Other diseases or conditions in foetus or infant—
- (c) Main maternal disease or condition affecting foetus or infant—
- (d) Other maternal diseases or conditions affecting foetus or infant—
- (e) Other relevant circumstances—

24. UNDERLYING CAUSE OF DEATH

(See Note on Back of Cover)

25. The cause of death has been confirmed by autopsy ☐ Autopsy information may be available later ☐ Autopsy is not to be held ☐

*I attended the mother of the still-born child during confinement.

I hereby certify that *I attended the child before death.

*I viewed the body of the child after death.

and that the particulars stated above are true to the best of my knowledge and belief.

A notice of intention to sign this certificate was *completed on _____ / (Date)
 *not completed

Signature _____ Date _____

Residence _____

Full name of medical practitioner _____ (IN BLOCK LETTERS)

*Delete text where not applicable



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