

NSW Mothers and Babies 2015



Health

NSW MINISTRY OF HEALTH

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2. EXECUTIVE SUMMARY

This is the eighteenth annual report on mothers and babies in NSW. The key findings are:

- The number of births in NSW fell from 97,245 in 2011 to 96,391 in 2015, an overall decrease of 0.9%. The largest increase occurred in the South Western Sydney Local Health District, where the number of births increased from 12,831 to 13,214 between 2011 and 2015. The largest decrease occurred in the Hunter New England Local Health District, where the number of births decreased from 11,290 to 10,947 between 2011 and 2015.
- The percentage of mothers who were teenagers fell from 3.2% in 2011 to 2.5% in 2015. Over the same period the percentage of mothers aged 35 years and over remained relatively stable, decreasing slightly from 23.5% to 23.4%.
- The rate of normal vaginal birth decreased from 56.9% in 2011 to 56.0% in 2015. The caesarean section rate increased from 31.3% to 32.4%, while the rate of instrumental birth remained steady at about 11%.
- Operative and instrumental births were more common among privately than publicly insured mothers. Among privately insured mothers the rate of normal vaginal birth fell from 44.9% in 2011 to 43.6% in 2015 and the caesarean section rate increased from 40.4% to 43.0%. Among publicly insured mothers the rate of normal vaginal birth fell from 63.3% to 62.3% and the caesarean section rate rose from 26.5% to 27.3%.
- The proportion of mothers reporting any smoking during pregnancy declined from 11.1% in 2011 to 8.9% in 2015. Of mothers who smoked during pregnancy in 2015, 27.1% stopped smoking in the first half of pregnancy.
- In 2015, the majority of mothers planned to give birth in a hospital labour ward, and 2.5% of mothers planned to give birth in a birth centre. Eighty-seven per cent of mothers who planned to give birth in a birth centre actually did so. There were 187 homebirths in NSW reported in 2015.
- In 2015, 7.9% of babies were born prematurely (less than 37 weeks gestation), a slight increase from 7.5% in 2011.
- Since 2011, the rate of low birth weight (less than 2,500 grams) has remained stable, ranging from 6.1% to 6.6%. The rate of low birth weight was 6.6% in 2015.
- Between 2011 and 2015, the reported number of Aboriginal or Torres Strait Islander mothers giving birth increased from 2,975 to 3,823, an increase from 3.1% to 4.0% of all mothers.
- The percentage of Aboriginal or Torres Strait Islander mothers who were teenagers fell from 19.0% in 2011 to 15.4% in 2015. The percentage of mothers giving birth at 35 years of age or more has slightly increased from 8.6% in 2011 to 8.7% in 2015.
- In 2015, 45.0% of Aboriginal or Torres Strait Islander mothers reported smoking at some time during pregnancy.
- Since 2011, rates of low birth weight and prematurity in Aboriginal or Torres Strait Islander babies has been over 11%. In 2015, 11.3% of Aboriginal or Torres Strait Islander babies were low birth weight and 12.7% were premature.
- The perinatal mortality rate of 9.6 per 1,000 births in Aboriginal or Torres Strait Islander mothers in 2015 is higher than the rate of 8.1 per 1,000 births experienced among babies born to non-Aboriginal or Torres Strait Islander mothers.

3. METHODS

Data sources

NSW Perinatal Data Collection

The New South Wales Perinatal Data Collection (PDC) is a population-based surveillance system covering all births in NSW public and private hospitals, as well as home births. It encompasses all live births, and stillbirths of at least 20 weeks gestation or at least 400 grams birth weight.

The PDC relies on the attending midwife or doctor to complete a notification form when a birth occurs. The form, a copy of which is shown at Appendix 4, includes demographic items and items on maternal health, the pregnancy, labour, birth, and perinatal outcomes. Completed forms are sent to the Health System Information and Performance Reporting Branch within the System Purchasing and Performance Division of the NSW Ministry of Health, where they are compiled into the PDC database.

In 2015, 97.9% of PDC records were received electronically from public and private hospitals information systems and 2.1% were received by paper forms. Electronically submitted records were received by secure upload to the state database or encrypted via email. There are several source systems that generate the PDC data. The largest source is ObstetriX, which supplies 58.5% of all PDC records and covers all public hospitals in Northern Sydney, Central Coast, South Eastern Sydney, Illawarra Shoalhaven, Hunter New England, Nepean Blue Mountains and Western Sydney Local Health Districts and some hospitals in Mid North Coast, Northern NSW, Murrumbidgee, Southern NSW, Western NSW and Far West Local Health Districts. CERNER systems supply 18.2% of PDC records (public hospitals in Sydney and South Western Sydney Local Health Districts). Healthscope Hospitals (Prince of Wales Private Hospital, Norwest Private Hospital, Sydney South West Private Hospital, Nepean Private Hospital and Newcastle Private Hospital) supply 8.5% of PDC records. Meditech, which includes 5 Ramsay Private Hospitals (North Shore Private Hospital, Westmead Private Hospital, St George Private Hospital, Kareena Private Hospital and Figtree Private Hospital), supplies 8.3% of all PDC data. The Mater Hospital, North Sydney database supplies 2.4% of PDC records, and 2.0% of PDC records are supplied from the Sydney Adventist Hospital database.

The PDC receives notifications of women whose usual place of residence is outside NSW but who give birth in NSW. However, the PDC does not receive notifications of births outside NSW to women usually resident in NSW.

Maternal and Child Health Register

The Maternal and Child Health Register is a dataset of linked de-identified records that has been established under the Public Health and Disease Registers provisions of the NSW Public Health 2010 Act. It includes records from the following data collections for children and young people aged less than 16 years and women aged 12 to 55 years:

- NSW PDC for the period 1994 onwards (all records);
- NSW Admitted Patient Data Collection (public hospitals and the NSW Private Hospital Inpatient Statistics Collection) for the period 1 July 2001 onwards (children and young people aged less than 16 years and women aged 12 to 55 years);
- NSW Emergency Department Data Collection for the period 1 July 2005 onwards (children and young people aged less than 16 years and women aged 12 to 55 years);
- NSW Register of Congenital Conditions for the most recently available 6 year period (all records);
- NSW Perinatal Death Review database for the period 1 January 2000 onwards (all records);
- Notifiable Conditions Information Management System for the period 1994 onwards (children and young people aged less than 16 years and women aged 12 to 55 years);
- NSW Registry of Births, Deaths and Marriages death registrations for the period 1994 onwards (children and young people aged less than 16 years and women aged 12 to 55 years); and
- Australian Coordinating Registry Cause of Death Unit Record File for the period 1994 onwards (children and young people aged less than 16 years and women aged 12 to 55 years).

An Enhanced Reporting of Aboriginality (ERA) variable is available on the Maternal and Child Health Register. This variable uses linkage with routinely collected population-based health and health-related data collections in NSW to obtain more accurate information about Aboriginal people than is currently available in individual collections, and thus to more accurately identify and monitor risk factors for diseases and conditions that are different for Aboriginal people compared to non-Aboriginal people.

(Continued on next page)

Enhanced reporting relies on having independent sources of information on whether a person is Aboriginal or Torres Strait Islander.¹ Each independent report is counted as a “unit of information” that contributes to the weight of evidence as to whether a person is reported as Aboriginal or Torres Strait Islander. ERA uses the following algorithm to determine whether a person is reported as Aboriginal:

1. If a person is consistently reported as Aboriginal or Torres Strait Islander on all contributing sources of data, then the person is reported as Aboriginal or Torres Strait Islander.
2. If the person is not consistently reported as Aboriginal or Torres Strait Islander, then:
 - i) if the person has 3 or more units of information across all contributing data sets, at least 2 indicating that the person is Aboriginal or Torres Strait Islander are required to report the person as Aboriginal or Torres Strait Islander;
 - ii) otherwise, if the person has 1 or 2 units of information in all contributing data sets, 1 is sufficient to report the person as Aboriginal or Torres Strait Islander.
3. If a person is consistently reported as unknown, not stated or the information is missing on all contributing data sets, then the person’s Aboriginality is reported as “missing”.

For mothers and babies, ERA is based on the weight of evidence from linked records of the PDC, Admitted Patient Data Collection (APDC), Emergency Department Data Collection, Australian Coordinating Registry Cause of Death Unit Record File, and RBDM Birth Registration data. In this report, APDC records do not contribute to the mother’s or baby’s ERA where there is a corresponding linked PDC birth record. This is because, from 2012, information on a person’s Aboriginality as reported on the PDC is usually obtained from the hospital’s patient administration system and is not an independent source of information.

The Maternal and Child Health Register linkage is updated regularly for all years of data. Reported numbers of Aboriginal mothers and babies according to ERA for a particular birth year may therefore vary when subsequently reported. It should be noted that the 2012 ERA figures reported in the NSW Mothers and Babies 2012 and 2013 reports used a definition where PDC records always contributed to the mother’s and baby’s ERA.

NSW Maternal and Perinatal Committee

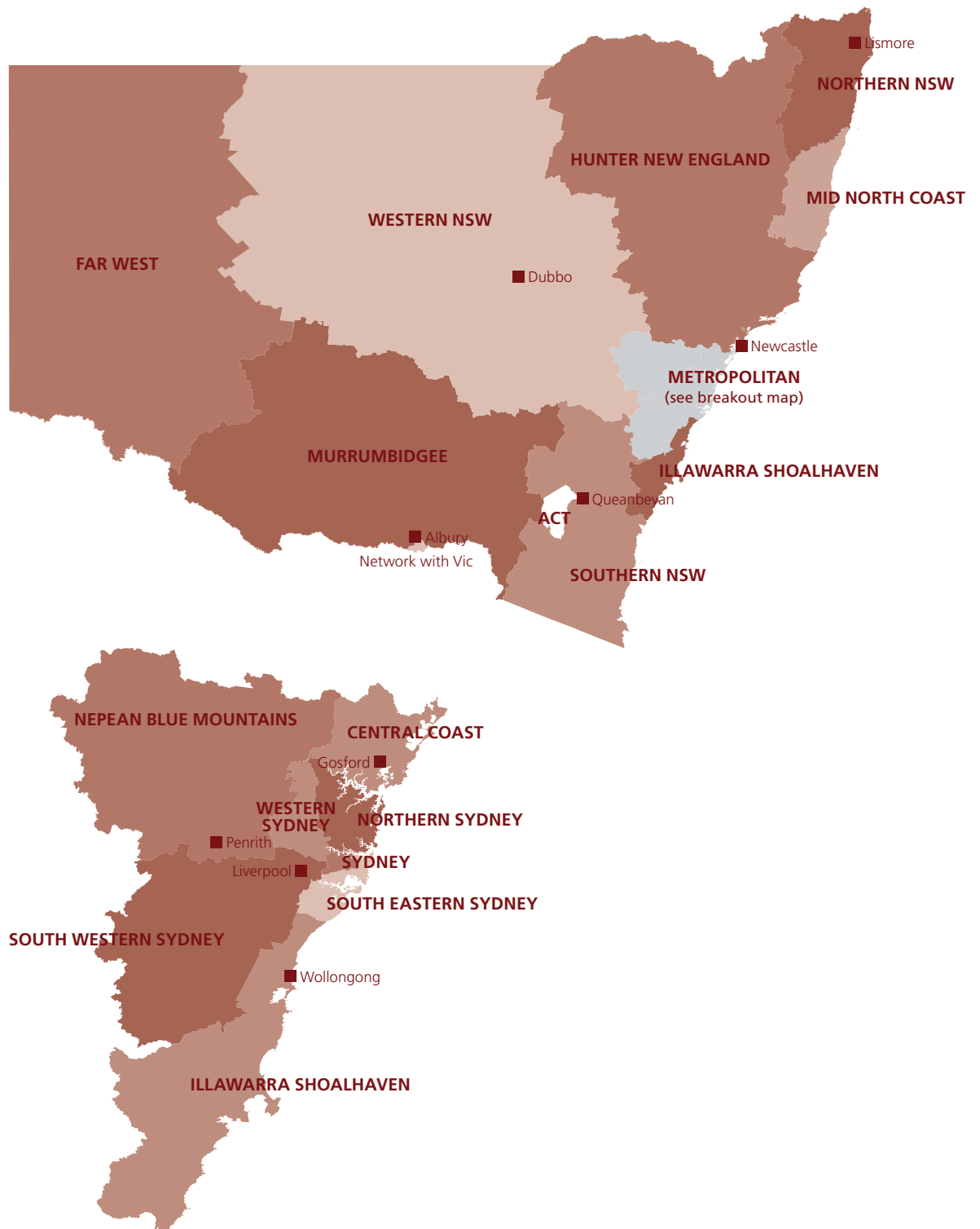
The NSW Maternal and Perinatal Mortality Review Committee is a quality assurance committee established under the *NSW Health Administration Act 1982*, and is privileged under the Act to carry out confidential reviews of both maternal and perinatal deaths. Members are appointed by the Minister for Health.

The Committee reviews each maternal death to identify any possible avoidable factors and to determine whether the death was related to pregnancy (or its management) or whether it was incidental. The Committee also reviews perinatal deaths among liveborn babies, and stillbirths of at least 20 weeks gestation or at least 400 grams birth weight. The information obtained from these reviews assists in the development of policies aimed at improving the health of mothers and newborns in NSW. Information considered by the Committee is confidential.

Reference

1. Population and Public Health Division. *Improved reporting of Aboriginal and Torres Strait Islander peoples on population datasets in New South Wales using record linkage—a feasibility study*. Sydney: NSW Ministry of Health, 2012.

Map of NSW Local Health Districts



4. TRENDS IN NEW SOUTH WALES

Confinements and births by plurality

The number of births in NSW fell from 97,245 in 2011 to 96,391 in 2015, a decrease of 0.9%. In 2015, 96,391 births to 94,989 mothers were reported (Table 1). The percentage of multiple (twin and triplet) pregnancies has remained fairly stable over recent years at about 1.4%.

TABLE 1: PLURALITY, NSW 2011–2015

Plurality		Year									
		2011		2012		2013		2014		2015	
		No.	%	No.	%	No.	%	No.	%	No.	%
Confinements	Singleton	94429	98.5	96793	98.6	94128	98.5	94543	98.6	93609	98.5
	Twins	1383	1.4	1327	1.4	1384	1.4	1367	1.4	1358	1.4
	Triplets	23	0.0	21	0.0	25	0.0	16	0.0	22	0.0
	TOTAL	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0
Births	Singleton	94429	97.1	96793	97.3	94128	97.1	94543	97.1	93609	97.1
	Twins	2747	2.8	2654	2.7	2768	2.9	2734	2.8	2716	2.8
	Triplets	69	0.1	63	0.1	75	0.1	48	0.0	66	0.1
	TOTAL	97245	100.0	99510	100.0	96971	100.0	97325	100.0	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Local Health District of residence

The largest increase occurred in the South Western Sydney Local Health District, where the number of births increased from 12,647 to 12,996 between 2011 and 2015. The largest decrease occurred in the Hunter New England Local Health District, where the number of births decreased from 11,116 to 10,797 between 2011 and 2015. In 2015 29.1% of mothers giving birth were residents in South Western Sydney and Western Sydney Local Health Districts, similar to previous years (Table 2).

TABLE 2: MATERNAL LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2011–2015

Local Health District	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	8537	8.9	8769	8.9	8331	8.7	8401	8.8	8249	8.7
South Western Sydney	12647	13.2	13176	13.4	12842	13.4	13220	13.8	12996	13.7
South Eastern Sydney	11309	11.8	11878	12.1	11396	11.9	11460	11.9	11077	11.7
Illawarra Shoalhaven	4467	4.7	4476	4.6	4398	4.6	4363	4.5	4507	4.7
Western Sydney	14321	14.9	14601	14.9	14515	15.2	14877	15.5	14640	15.4
Nepean Blue Mountains	4881	5.1	4788	4.9	4743	5.0	4820	5.0	4929	5.2
Northern Sydney	10308	10.8	10653	10.9	10310	10.8	10454	10.9	10270	10.8
Central Coast	3914	4.1	3823	3.9	3922	4.1	3738	3.9	3813	4.0
Hunter New England	11116	11.6	11328	11.5	10931	11.4	10717	11.2	10797	11.4
Northern NSW	2832	3.0	2786	2.8	2785	2.9	2631	2.7	2557	2.7
Mid North Coast	2333	2.4	2243	2.3	2235	2.3	2151	2.2	2183	2.3
Southern NSW	1387	1.4	1450	1.5	1368	1.4	1339	1.4	1360	1.4
Murrumbidgee	2402	2.5	2402	2.4	2305	2.4	2435	2.5	2377	2.5
Western NSW	3685	3.8	3879	4.0	3707	3.9	3805	4.0	3678	3.9
Far West	218	0.2	255	0.3	226	0.2	230	0.2	222	0.2
Other—not stated	1478	1.5	1634	1.7	1523	1.6	1285	1.3	1334	1.4
TOTAL	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Maternal age

The percentage of mothers who were teenagers fell from 3.2% in 2011 to 2.5% in 2015. Between 2011 and 2015, the percentage of mothers aged 35 years and over has decreased slightly from 23.5% to 23.4% (Figure 1, Table 3).

The mean maternal age rose from 30.2 to 30.5 years over the 5 years 2011 to 2015. The mean maternal age rose from 28.6 to 29.1 years for primiparous mothers and remained relatively stable for multiparous mothers at around 31.6 years.

The proportion of mothers giving birth for the first time who were aged 35 years or more was 15.4% in 2011 and 15.6% in 2015. The proportion of multiparous mothers who were aged 35 years or more was 29.7% in 2011 and 29.4% in 2015.

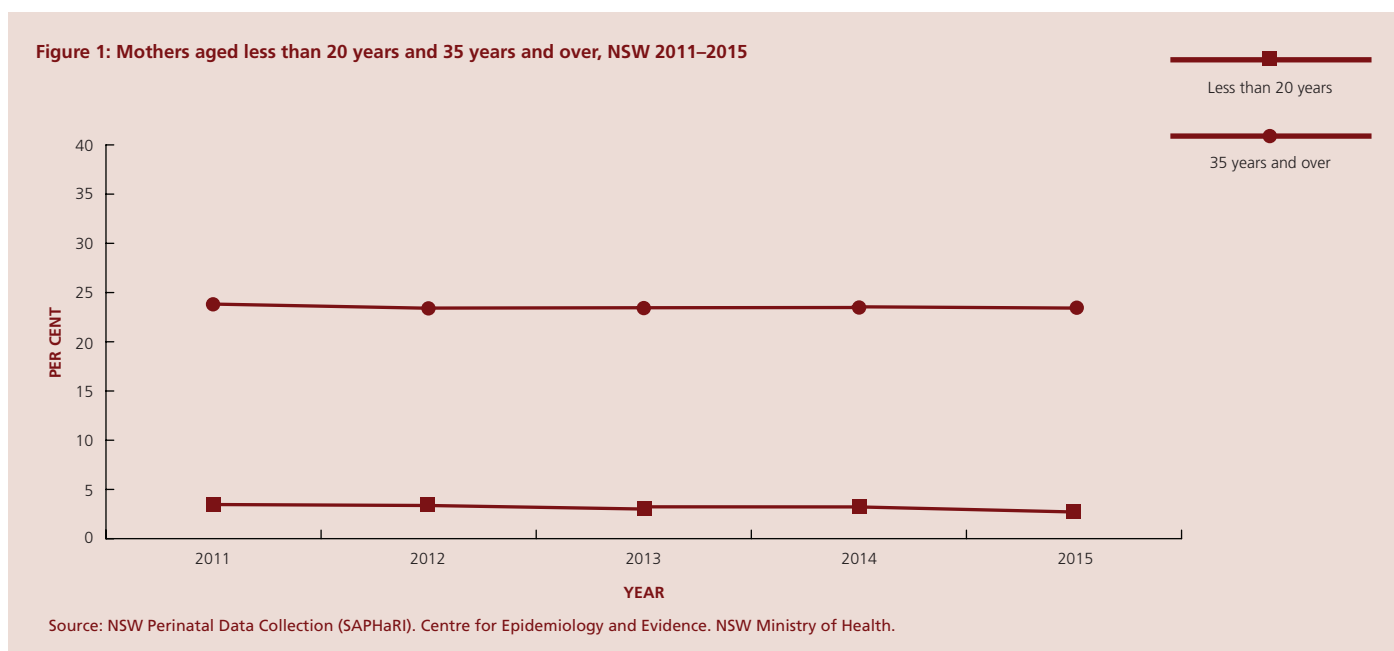


TABLE 3: MATERNAL AGE, NSW 2011–2015

Maternal age (years)	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Less than 15	19	0.0	18	0.0	15	0.0	14	0.0	15	0.0
15–19	3080	3.2	3144	3.2	2832	3.0	2616	2.7	2362	2.5
20–24	12508	13.1	12694	12.9	12097	12.7	11699	12.2	11358	12.0
25–29	26513	27.7	26769	27.3	25801	27.0	25995	27.1	25476	26.8
30–34	31209	32.6	32385	33.0	32411	33.9	33300	34.7	33569	35.3
35–39	18299	19.1	18534	18.9	17841	18.7	17939	18.7	17776	18.7
40–44	3957	4.1	4314	4.4	4282	4.5	4115	4.3	4163	4.4
45+	224	0.2	266	0.3	240	0.3	241	0.3	268	0.3
Not stated	26	0.0	17	0.0	18	0.0	7	0.0	2	0.0
TOTAL	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Maternal country of birth

The percentage of mothers born in Australia decreased between 2011 and 2015, from 66.4% to 64.0%. In 2015, mothers born in India, China, New Zealand, United Kingdom, the Philippines, Vietnam, Lebanon and Iraq together accounted for 17.5% of all mothers (Table 4).

TABLE 4: MATERNAL COUNTRY OF BIRTH, NSW 2011–2015[#]

Country of birth	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Australia	63611	66.4	63799	65.0	62165	65.1	60761	63.3	60769	64.0
India	3081	3.2	3142	3.2	3328	3.5	3634	3.8	3860	4.1
China	3281	3.4	4145	4.2	3856	4.0	4753	5.0	3830	4.0
New Zealand	2237	2.3	2246	2.3	2188	2.3	2128	2.2	2060	2.2
United Kingdom	2234	2.3	2185	2.2	1968	2.1	1816	1.9	1704	1.8
Philippines	1386	1.4	1494	1.5	1465	1.5	1450	1.5	1513	1.6
Vietnam	1506	1.6	1861	1.9	1436	1.5	1537	1.6	1478	1.6
Lebanon	1373	1.4	1337	1.4	1280	1.3	1289	1.3	1159	1.2
Iraq	970	1.0	981	1.0	1014	1.1	1092	1.1	1021	1.1
Bangladesh	671	0.7	714	0.7	761	0.8	827	0.9	846	0.9
Nepal	449	0.5	542	0.6	636	0.7	766	0.8	824	0.9
Pakistan	566	0.6	592	0.6	646	0.7	733	0.8	800	0.8
Indonesia	798	0.8	902	0.9	823	0.9	778	0.8	787	0.8
South Korea	627	0.7	802	0.8	728	0.8	690	0.7	768	0.8
Fiji	633	0.7	641	0.7	621	0.7	590	0.6	582	0.6
South Africa	653	0.7	660	0.7	610	0.6	598	0.6	580	0.6
Thailand	514	0.5	569	0.6	535	0.6	535	0.6	528	0.6
United States of America	502	0.5	510	0.5	473	0.5	498	0.5	514	0.5
Ireland	363	0.4	450	0.5	441	0.5	471	0.5	455	0.5
Hong Kong	465	0.5	548	0.6	452	0.5	456	0.5	441	0.5
Malaysia	422	0.4	451	0.5	420	0.4	441	0.5	440	0.5
Sri Lanka	417	0.4	450	0.5	442	0.5	452	0.5	432	0.5
Iran	270	0.3	297	0.3	295	0.3	369	0.4	425	0.4
Afghanistan	340	0.4	365	0.4	340	0.4	405	0.4	415	0.4
Japan	428	0.4	427	0.4	392	0.4	404	0.4	363	0.4
Canada	299	0.3	292	0.3	333	0.3	290	0.3	307	0.3
Germany	297	0.3	308	0.3	309	0.3	349	0.4	304	0.3
Cambodia	304	0.3	303	0.3	267	0.3	274	0.3	290	0.3
Brazil	200	0.2	216	0.2	242	0.3	267	0.3	282	0.3
Egypt	232	0.2	209	0.2	214	0.2	242	0.3	263	0.3
Sudan	289	0.3	268	0.3	284	0.3	265	0.3	250	0.3
Russian Federation (not USSR)	213	0.2	206	0.2	169	0.2	243	0.3	240	0.3
France	158	0.2	161	0.2	173	0.2	233	0.2	223	0.2
Western Samoa	242	0.3	219	0.2	239	0.3	222	0.2	217	0.2
Poland	202	0.2	195	0.2	204	0.2	181	0.2	182	0.2
Taiwan	161	0.2	184	0.2	187	0.2	191	0.2	182	0.2
Syria	154	0.2	151	0.2	132	0.1	192	0.2	177	0.2
Tonga	161	0.2	169	0.2	166	0.2	148	0.2	176	0.2
Turkey	201	0.2	175	0.2	179	0.2	176	0.2	173	0.2
Colombia	105	0.1	142	0.1	135	0.1	136	0.1	157	0.2
Singapore	143	0.1	170	0.2	135	0.1	137	0.1	154	0.2
Saudi Arabia	158	0.2	132	0.1	116	0.1	120	0.1	139	0.1
Bosnia and Herzegovina	128	0.1	123	0.1	113	0.1	134	0.1	137	0.1
Chile	140	0.1	147	0.1	124	0.1	135	0.1	130	0.1
North Korea	149	0.2	177	0.2	157	0.2	174	0.2	126	0.1
Italy	71	0.1	102	0.1	86	0.1	74	0.1	116	0.1
Former Yugoslavia	124	0.1	123	0.1	104	0.1	121	0.1	116	0.1
Burma (Myanmar)	97	0.1	100	0.1	108	0.1	146	0.2	116	0.1
Macedonia	115	0.1	123	0.1	125	0.1	150	0.2	114	0.1
Jordan	101	0.1	95	0.1	105	0.1	116	0.1	112	0.1
Zimbabwe	117	0.1	127	0.1	110	0.1	129	0.1	107	0.1
Inadequately described	79	0.1	95	0.1	110	0.1	151	0.2	115	0.1
Other—not stated	3398	3.5	3319	3.4	3596	3.8	3457	3.6	3490	3.7
TOTAL	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.
[#] Countries of birth for which 100 or more women gave birth in 2015.

Aboriginal and Torres Strait Islander mothers

The reported number of Aboriginal or Torres Strait Islander mothers giving birth increased from 2,975 in 2011 to 3,823 in 2015, an increase from 3.1% to 4.0% of all mothers (Table 5). Further information on Aboriginal and Torres Strait Islander mothers and babies is shown in Chapter 8.

TABLE 5: ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2011–2015

Aboriginal or Torres Strait Islander	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Aboriginal or Torres Strait Islander	2975	3.1	3348	3.4	3492	3.7	3756	3.9	3823	4.0
Non-Aboriginal or Torres Strait Islander	92619	96.6	94738	96.5	91986	96.3	92158	96.1	91166	96.0
Not stated	241	0.3	55	0.1	59	0.1	12	0.0	0	0.0
TOTAL	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Previous pregnancies

In recent years there has been a slight increase in the percentage of mothers giving birth for the first time, from 43.4% in 2011 to 43.7% in 2015 (Table 6). The proportion of mothers giving birth to a second or subsequent baby remained relatively stable over the same period (56.3% in 2011 and 56.2% in 2015).

TABLE 6: PREVIOUS PREGNANCIES, NSW 2011–2015

No. previous pregnancies (>20 weeks gestation)	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
0	41602	43.4	43140	44.0	42257	44.2	42338	44.1	41547	43.7
1–4	52423	54.7	53447	54.5	51831	54.3	52070	54.3	52034	54.8
5+	1547	1.6	1518	1.5	1429	1.5	1491	1.6	1390	1.5
Not stated	263	0.3	36	0.0	20	0.0	27	0.0	18	0.0
TOTAL	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Duration of pregnancy at first antenatal visit

Between 2011 and 2015, the proportion of mothers starting antenatal care at less than 14 weeks gestation substantially decreased from 71.3% to 64.3% (Table 7). Since 2011, rates of commencement of antenatal care at less than 14 weeks gestation have fallen substantially due to the introduction of a stricter definition of “antenatal care”. Up to 2010, the question asked was ‘Duration of pregnancy at first antenatal visit’. From 2011, the question asked is: ‘Duration of pregnancy at first comprehensive booking or assessment by clinician’. The new question has more specifically defined the type of visit to be reported. This resulted in a substantial decrease in the reported proportion of mothers who commenced antenatal care before 14 weeks gestation between 2010 and 2011. Furthermore, as 2012 was the first year the new question was being consistently asked, this has also resulted in a substantial decrease in the reported proportion between 2011 and 2012. In 2015, 64.3% of mothers commenced antenatal care at less than 14 weeks gestation and 87.3% commenced antenatal care at less than 20 weeks gestation.

TABLE 7: DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT, NSW 2011–2015

Duration of pregnancy (weeks)	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
0–13	68373	71.3	60051	61.2	57336	60.0	57293	59.7	61073	64.3
14–19	14879	15.5	21489	21.9	22916	24.0	24062	25.1	21869	23.0
20+	9724	10.1	14063	14.3	14507	15.2	14164	14.8	11685	12.3
Not stated	2859	3.0	2538	2.6	778	0.8	407	0.4	362	0.4
TOTAL	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Smoking in pregnancy

The proportion of mothers reporting any smoking during pregnancy declined from 11.1% in 2011 to 8.9% in 2015 (Table 8). Of mothers who smoked during pregnancy in 2015, 27.1% stopped smoking in the first half of pregnancy. Over the 5-year period, among those who smoked in the second half of pregnancy, there was a trend towards smoking fewer cigarettes per day (Table 9).

TABLE 8: SMOKING IN PREGNANCY, NSW 2011–2015

Smoking in pregnancy	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Did not smoke	84545	88.2	87580	89.2	86251	90.3	87041	90.7	86547	91.1
Smoked	10669	11.1	10225	10.4	9285	9.7	8883	9.3	8442	8.9
Not stated	621	0.6	336	0.3	1	0.0	2	0.0	0	0.0
TOTAL	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

TABLE 9: MOTHERS WHO SMOKED AT ALL DURING PREGNANCY BY NUMBER OF CIGARETTES SMOKED IN THE SECOND HALF OF PREGNANCY, NSW 2011–2015

Cigarettes smoked in the second half of pregnancy	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
None	2561	24.0	2562	25.1	2446	26.3	2306	26.0	2292	27.1
1–10 per day	5482	51.4	5439	53.2	5069	54.6	4948	55.7	4691	55.6
> 10 per day	1900	17.8	1849	18.1	1510	16.3	1319	14.8	1202	14.2
Smoked, amount not stated	604	5.7	363	3.6	260	2.8	310	3.5	257	3.0
Not stated	122	1.1	12	0.1	0	0.0	0	0.0	0	0.0
TOTAL	10669	100.0	10225	100.0	9285	100.0	8883	100.0	8442	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Place of birth

In 2015, the majority of mothers planned to give birth in a hospital labour ward, and 2.5% of mothers planned to give birth in a birth centre (Table 10). Eighty-seven per cent of mothers who planned to give birth in a birth centre actually did so. The total number of reported planned homebirths fell from 261 in 2011 to 203 in 2015, and the reported number of planned homebirths that occurred at home fell from 225 in 2011 to 187 in 2015.

TABLE 10: MATERNAL PLACE OF BIRTH, NSW 2011–2015

Place of birth	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Hospital	91574	95.6	93945	95.7	92012	96.3	92596	96.5	91830	96.7
Birth centre	2804	2.9	2837	2.9	2392	2.5	2202	2.3	2095	2.2
Planned birth centre–hospital admission	709	0.7	596	0.6	354	0.4	381	0.4	323	0.3
Planned homebirth	225	0.2	202	0.2	217	0.2	228	0.2	187	0.2
Planned homebirth–hospital admission	36	0.0	30	0.0	19	0.0	30	0.0	16	0.0
Born before arrival	462	0.5	519	0.5	543	0.6	488	0.5	538	0.6
Not stated	25	0.0	12	0.0	0	0.0	1	0.0	0	0.0
TOTAL	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hypertension and diabetes

The reported rate of gestational diabetes rose from 6.4% in 2011 to 8.3% in 2015. The rate of diabetes mellitus also increased from 0.6% to 1.5% (Table 11), while the rate of hypertension in pregnancy remained steady at about 5% over the 5-year period.

TABLE 11: MATERNAL HYPERTENSION OR DIABETES, NSW 2011–2015

Condition	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Diabetes mellitus	612	0.6	662	0.7	1170	1.2	1358	1.4	1398	1.5
Gestational diabetes	6094	6.4	7292	7.4	6710	7.0	7242	7.5	7918	8.3
Chronic hypertension	784	0.8	776	0.8	741	0.8	745	0.8	731	0.8
Pre-eclampsia	1662	1.7	1675	1.7	1577	1.7	1458	1.5	1463	1.5
Gestational hypertension	2646	2.8	2825	2.9	2766	2.9	2810	2.9	2909	3.1
TOTAL*	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

* Total refers to number of confinements.

Labour

The rate of spontaneous onset of labour fell from 39.4% in 2011 to 36.0% in 2015 and the rate of induction of labour rose from 26.5% in 2011 to 30.5% in 2015 (Table 12). The most common reported reason for induction of labour in 2015 was prelabour rupture of membranes (16.4%), followed by prolonged pregnancy (41 or more weeks) (16.3%), diabetes (12.8%), hypertensive disease (7.8%), suspected intrauterine growth retardation (4.9%), fetal distress (2.3%) and fetal death (0.9%).

TABLE 12: ONSET AND AUGMENTATION OF LABOUR, NSW 2011–2015

Onset of labour	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Spontaneous	37772	39.4	38144	38.9	35970	37.7	35398	36.9	34176	36.0
Spontaneous augmented with ARM	6392	6.7	6389	6.5	5965	6.2	5645	5.9	5533	5.8
Spontaneous augmented with oxytocics/prostaglandins [†]	8564	8.9	8530	8.7	7888	8.3	7680	8.0	7501	7.9
No labour	17638	18.4	18253	18.6	17818	18.7	18812	19.6	18827	19.8
Induced – oxytocics/prostaglandins	9176	9.6	9693	9.9	10028	10.5	10343	10.8	9971	10.5
Induced – ARM only	1789	1.9	1729	1.8	1884	2.0	1887	2.0	1869	2.0
Induced – ARM + oxytocics/prostaglandins	14321	14.9	15220	15.5	15822	16.6	15940	16.6	16719	17.6
Induced – other [‡]	151	0.2	163	0.2	159	0.2	216	0.2	390	0.4
Not stated	32	0.0	20	0.0	3	0.0	5	0.0	3	0.0
TOTAL	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

ARM: artificial rupture of membranes.

[†] May include artificial rupture of membranes.

[‡] This category includes other forms of induction such as Foley's catheter.

Birth

Among NSW mothers, the rate of normal vaginal birth decreased from 56.9% in 2011 to 56.0% in 2015 (Table 13). The caesarean section rate increased from 31.3% to 32.4%, while the rate of instrumental birth (forceps and vacuum extraction) remained steady at about 11%.

Operative and instrumental births are more common among privately than publicly insured mothers (Table 14). Among privately insured mothers the rate of normal vaginal birth fell from 44.9% in 2011 to 43.6% in 2015 and the caesarean section rate increased from 40.4% to 43.0%. Among publicly insured mothers the rate of normal vaginal birth fell from 63.3% to 62.3% and the caesarean section rate rose from 26.5% to 27.3%.

TABLE 13: TYPE OF BIRTH, NSW 2011–2015

Type of birth	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Normal vaginal	54516	56.9	55993	57.1	54269	56.8	53988	56.3	53203	56.0
Forceps	3932	4.1	4192	4.3	4349	4.6	4489	4.7	4488	4.7
Vacuum extraction	7005	7.3	6981	7.1	6500	6.8	6160	6.4	6122	6.4
Vaginal breech	316	0.3	399	0.4	363	0.4	367	0.4	363	0.4
Elective caesarean section	17638	18.4	18253	18.6	17818	18.7	18812	19.6	18826	19.8
Emergency caesarean section [†]	12391	12.9	12305	12.5	12236	12.8	12103	12.6	11984	12.6
Not stated	37	0.0	18	0.0	2	0.0	7	0.0	3	0.0
TOTAL	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

[†] Emergency caesarean section includes caesarean sections where the onset of labour was not stated.

TABLE 14: MATERNAL HEALTH INSURANCE BY TYPE OF BIRTH, NSW 2011–2015[#]

Insurance status–type of birth		Year									
		2011		2012		2013		2014		2015	
		No.	%	No.	%	No.	%	No.	%	No.	%
PUBLIC	Normal vaginal	39290	63.3	40198	63.2	38956	62.8	38632	62.4	18508	62.3
	Forceps	2396	3.9	2717	4.3	2803	4.5	2823	4.6	1360	4.6
	Vacuum extraction	3697	6.0	3752	5.9	3505	5.6	3337	5.4	1613	5.4
	Vaginal breech	244	0.4	311	0.5	277	0.4	252	0.4	136	0.5
	Elective caesarean section	8757	14.1	9105	14.3	8849	14.3	9279	15.0	4442	14.9
	Emergency caesarean section [*]	7703	12.4	7481	11.8	7652	12.3	7617	12.3	3661	12.3
	Not stated	13	0.0	7	0.0	0	0.0	3	0.0	0	0.0
	TOTAL	62100	100.0	63571	100.0	62042	100.0	61943	100.0	29720	100.0
PRIVATE	Normal vaginal	14932	44.9	15365	45.3	14743	45.2	14830	44.7	12015	43.6
	Forceps	1531	4.6	1456	4.3	1516	4.6	1652	5.0	1208	4.4
	Vacuum extraction	3284	9.9	3194	9.4	2933	9.0	2778	8.4	2440	8.8
	Vaginal breech	70	0.2	83	0.2	83	0.3	111	0.3	61	0.2
	Elective caesarean section	8832	26.5	9086	26.8	8879	27.2	9445	28.5	8266	30.0
	Emergency caesarean section [*]	4617	13.9	4735	14.0	4458	13.7	4369	13.2	3597	13.0
	Not stated	22	0.1	9	0.0	2	0.0	4	0.0	0	0.0
	TOTAL	33288	100.0	33928	100.0	32614	100.0	33189	100.0	27587	100.0
TOTAL[†]	Normal vaginal	54516	56.9	55993	57.1	54269	56.8	53988	56.3	53203	56.0
	Forceps	3932	4.1	4192	4.3	4349	4.6	4489	4.7	4488	4.7
	Vacuum extraction	7005	7.3	6981	7.1	6500	6.8	6160	6.4	6122	6.4
	Vaginal breech	316	0.3	399	0.4	363	0.4	367	0.4	363	0.4
	Elective caesarean section	17638	18.4	18253	18.6	17818	18.7	18812	19.6	18826	19.8
	Emergency caesarean section [*]	12391	12.9	12305	12.5	12236	12.8	12103	12.6	11984	12.6
	Not stated	37	0.0	18	0.0	2	0.0	7	0.0	3	0.0
	TOTAL	95835	100.0	98141	100.0	95537	100.0	95926	100.0	94989	100.0

Source: Linked data of the NSW Perinatal Data Collection and NSW Admitted Patient Data Collection, Centre for Epidemiology and Evidence, NSW Ministry of Health.

[#] Figures for 2010–13 differ to those reported previously as the linkage has been updated.

^{*} Emergency caesarean section includes cases where caesarean section was reported but type of onset of labour was not reported.

[†] Total includes mothers where type of health insurance was not stated.

Baby sex

There was no significant change in the pattern of baby sex since 2011, with slightly more male babies born than females in each year. In 2015, 49,442 (51.3%) babies were male, 46,934 (48.7%) were female, and 12 were of indeterminate sex. This compares with babies born in 2011, when 50,006 (51.4%) babies were male, 47,200 (48.5%) were female, and 12 were of indeterminate sex.

Gestational age

In 2015, 7.9% of babies were born prematurely (less than 37 weeks gestation), a slight increase from 7.5% in 2011 (Table 15). Over the 5 year period, 92% of babies were born at term (37-41 weeks gestation). The percentage of postmature babies (42-plus weeks gestation) was 0.7% in 2011 and 0.4% in 2015.

TABLE 15: GESTATIONAL AGE, NSW 2011–2015

Gestational age (weeks)	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
< 28	726	0.7	686	0.7	690	0.7	659	0.7	733	0.8
28–31	676	0.7	679	0.7	659	0.7	696	0.7	690	0.7
32–36	5872	6.0	6184	6.2	6059	6.2	6140	6.3	6200	6.4
37–41	89298	91.8	91388	91.8	89086	91.9	89435	91.9	88397	91.7
42+	660	0.7	569	0.6	466	0.5	391	0.4	367	0.4
Not stated	13	0.0	4	0.0	11	0.0	4	0.0	4	0.0
TOTAL	97245	100.0	99510	100.0	96971	100.0	97325	100.0	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Birth weight

Since 2011, the pattern of birth weight has remained stable, with the rate of low birth weight (less than 2,500 grams) ranging from 6.1% to 6.6% (Table 16). The rate of low birth weight was 6.6% in 2015.

TABLE 16: BIRTH WEIGHT, NSW 2011–2015

Birth weight (grams)	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Less than 500	253	0.3	252	0.3	232	0.2	225	0.2	283	0.3
500–999	443	0.5	428	0.4	413	0.4	433	0.4	411	0.4
1000–1499	538	0.6	521	0.5	524	0.5	552	0.6	545	0.6
1500–1999	1084	1.1	1166	1.2	1129	1.2	1096	1.1	1193	1.2
2000–2499	3684	3.8	3714	3.7	3856	4.0	3839	3.9	3918	4.1
2500–2999	14776	15.2	15356	15.4	15089	15.6	15598	16.0	15931	16.5
3000–3499	35362	36.4	36647	36.8	36118	37.2	36528	37.5	36122	37.5
3500–3999	29916	30.8	30171	30.3	29191	30.1	28986	29.8	28315	29.4
4000–4499	9516	9.8	9571	9.6	8860	9.1	8606	8.8	8330	8.6
4500+	1567	1.6	1618	1.6	1460	1.5	1393	1.4	1276	1.3
Not stated	106	0.1	66	0.1	99	0.1	69	0.1	67	0.1
TOTAL	97245	100.0	99510	100.0	96971	100.0	97325	100.0	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Apgar score

In 2015, 2.3% of babies were born with an Apgar score of less than 7 at 5 minutes and 1.1% were born with an Apgar score of less than 5 (Table 17). These rates are similar to those of previous years.

TABLE 17: APGAR SCORE AT 5 MINUTES, NSW 2011–2015*

Apgar score	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
0–4	1096	1.1	1052	1.1	1053	1.1	1050	1.1	1025	1.1
5–6	1019	1.0	1145	1.2	1184	1.2	1206	1.2	1200	1.2
7+	94834	97.5	97081	97.6	94673	97.6	94861	97.5	93864	97.4
Not stated	296	0.3	232	0.2	61	0.1	208	0.2	302	0.3
TOTAL	97245	100.0	99510	100.0	96971	100.0	97325	100.0	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

* Includes stillbirths and live births.

Hepatitis B

The percentage of babies given a hepatitis B vaccination at birth has risen from 93.5% in 2011 to 94.4% in 2015 (Table 18).

TABLE 18: HEPATITIS B DOSE GIVEN TO LIVEBORN BABIES, NSW 2011–2015

Hepatitis B dose given	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
No	6097	6.3	5882	5.9	5441	5.6	5207	5.4	5366	5.6
Yes	90338	93.5	92957	94.0	90921	94.3	91538	94.6	90378	94.4
Not stated	152	0.2	36	0.0	26	0.0	31	0.0	14	0.0
TOTAL	96587	100.0	98875	100.0	96388	100.0	96776	100.0	95758	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Infant feeding

The percentage of babies fully breastfed at the time of discharge from hospital decreased from 82.1% to 78.9% between 2011 and 2015. The percentage of babies that received any breastfeeding rose from 6.1% in 2011 to 10.5% in 2015. In the same 5-year period, the percentage of babies receiving infant formula only fell from 10.7% to 9.7% (Table 19).

TABLE 19: LIVE BIRTHS BY TYPE OF INFANT FEEDING, NSW 2011–2015

Infant feeding	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Full breastfeeding	79256	82.1	81154	82.1	76912	79.8	76018	78.6	75562	78.9
Any breastfeeding	5889	6.1	6709	6.8	8457	8.8	10132	10.5	10047	10.5
Infant formula only	10308	10.7	10163	10.3	9935	10.3	9577	9.9	9270	9.7
Not stated	1134	1.2	849	0.9	1084	1.1	1049	1.1	879	0.9
TOTAL	96587	100.0	98875	100.0	96388	100.0	96776	100.0	95758	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Perinatal outcome

Across the period 2011–2015 the perinatal mortality rate decreased from 8.5 to 8.2 per 1,000 births (Table 20). In 2015, 76.4% of all reported perinatal deaths were stillbirths and 23.6% were neonatal deaths.

In 2015, of the 788 perinatal deaths in NSW, 760 (96.4%) were reported among planned hospital births, 14 (1.8%) among planned birth centre births, 12 deaths were among babies born before arrival at hospital (1.5%) and 1 death was reported among planned home births.

TABLE 20: PERINATAL OUTCOMES, NSW 2011–2015*

Year	Liveborn surviving		Stillborn		Neonatal death		Death—age not stated		Not stated		Total births		Perinatal death rate/1,000 births [†]	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
2011	96329	99.1	572	0.6	254	0.3	4	0.0	86	0.1	97245	100.0		8.5
2012	98657	99.1	600	0.6	212	0.2	6	0.0	35	0.0	99510	100.0		8.2
2013	96174	99.2	562	0.6	212	0.2	2	0.0	21	0.0	96971	100.0		8.0
2014	96553	99.2	534	0.5	221	0.2	2	0.0	15	0.0	97325	100.0		7.8
2015	95571	99.1	602	0.6	186	0.2	1	0.0	31	0.0	96391	100.0		8.2

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

* Perinatal deaths include deaths reported to the PDC only. As the PDC form is completed at discharge or transfer of the baby, deaths occurring after this time may not be reported to the PDC.

† The perinatal death rate excludes deaths where the age at death was not stated.

Maternal deaths

In the period 1990–2014, 230 deaths were reported among pregnant women or women who gave birth less than 6 weeks previously. Of these, 69 (30.0%) died of incidental causes not related to the pregnancy or its management, 98 (42.6%) deaths were found to be directly due to pregnancy or its management, and 60 (26.1%) were found to result from pre-existing disease or disease which developed during pregnancy (not due to direct obstetric causes), but which may have been aggravated by the physiologic effects of pregnancy (Table 21). Table 22 shows maternal deaths by cause in NSW for 2014.

TABLE 21: MATERNAL DEATHS BY YEAR, NSW 1990–2014[#]

Year	Classification									
	Direct		Indirect		Total Direct & Indirect		Incidental		TOTAL	
	No.	Ratio/100,000	No.	Ratio/100,000	No.	Ratio/100,000	No.	Ratio/100,000	No.	Ratio/100,000
1990	4	4.6	6	6.9	10	11.6	2	2.3	12	13.9
1991	4	4.7	1	1.2	5	5.8	1	1.2	6	7.0
1992	5	5.7	1	1.1	6	6.8	5	5.7	11	12.5
1993	6	6.9	1	1.2	7	8.1	6	6.9	13	15.0
1994	8	9.2	1	1.2	9	10.4	3	3.5	12	13.8
1995	7	8.1	2	2.3	9	10.4	6	7.0	15	17.4
1996	6	7.0	1	1.2	7	8.2	5	5.9	12	14.1
1997	7	8.1	2	2.3	9	10.5	5	5.8	14	16.1
1998	4	4.7	4	4.7	8	9.4	3	3.5	11	12.9
1999 [†]	4	4.7	1	1.2	5	5.8	6	7.0	12	14.0
2000	4	4.7	5	5.9	9	10.7	1	1.2	10	11.9
2001	4	4.7	4	4.7	8	9.5	1	1.2	9	10.7
2002	2	2.4	2	2.4	4	4.7	1	1.2	5	5.9
2003	1	1.2	3	3.5	4	4.7	3	3.5	7	8.2
2004 [†]	2	2.3	2	2.3	4	4.7	2	2.3	7	8.2
2005 [†]	4	4.5	4	4.5	8	9.0	2	2.2	11	12.3
2006	4	4.4	3	3.3	7	7.7	3	3.3	10	11.0
2007	1	1.1	0	0.0	1	1.1	0	0.0	1	1.1
2008	0	0.0	4	4.2	4	4.2	1	1.1	5	5.3
2009	5	5.3	2	2.1	7	7.4	3	3.2	10	10.5
2010	4	4.2	2	2.1	6	6.3	2	2.1	8	8.4
2011	3	3.1	5	5.2	8	8.3	2	2.1	10	10.4
2012	3	3.1	2	2.0	5	5.1	2	2.0	7	7.1
2013	2	2.1	1	1.0	3	3.1	2	2.1	5	5.2
2014	4	4.2	1	1.0	5	5.2	2	2.1	7	7.3

Source: NSW Maternal and Perinatal Mortality Review Committee.

[#] Includes all deaths of women who were pregnant at the time of death, or who died within 42 days of childbirth. Direct deaths include those resulting from obstetric complications of the pregnant state, including its management. Indirect deaths include those resulting from pre-existing disease or disease which developed during pregnancy and was not due to direct obstetric causes but which may have been aggravated by the physiological effects of pregnancy. Incidental deaths are those where the pregnancy is unlikely to have contributed significantly to the death.¹

[†] Totals for the year include one death that was unable to be classified.

TABLE 22: MATERNAL DEATHS BY CAUSE, NSW 2014[#]

Classification	Cause	No.
Direct	Sepsis related to wound infection following caesarean section	1
Direct	Intracerebral haemorrhage	1
Direct	Pulmonary embolism	1
Direct	Staphylococcal sepsis following caesarean section	1
Indirect	Mediastinal haemorrhage and haemothorax	1
Incidental	Positional asphyxia	1
Incidental	Ischaemic heart disease	1
TOTAL		7

Source: NSW Maternal and Perinatal Mortality Review Committee.

[#] Includes all deaths of women who were pregnant at the time of death, or who died within 42 days of childbirth. Direct deaths include those resulting from obstetric complications of the pregnant state, including its management. Indirect deaths include those resulting from pre-existing disease or disease which developed during pregnancy and was not due to direct obstetric causes but which may have been aggravated by the physiological effects of pregnancy. Incidental deaths are those where the pregnancy is unlikely to have contributed significantly to the death.¹

Reference

- Sullivan EA, Hall B, King, JF. *Maternal deaths in Australia 2003–2005*. Maternal deaths series no. 3 Cat. No. PER 42. Sydney: AIHW National Perinatal Statistics Unit, 2007.

5. LOCAL HEALTH DISTRICTS

Information on the health of Aboriginal and Torres Strait Islander mothers is shown in Chapter 8.

Confinements

The largest numbers of mothers who gave birth in 2015 were resident in the Western Sydney Local Health District ($n = 14,640$, 15.4%), followed by the South Western Sydney Local Health District ($n = 12,996$, 13.7%) and the South Eastern Sydney Local Health District ($n = 11,077$, 11.7%) (Table 23).

Maternal age

In 2015, the proportion of women giving birth at less than 20 years of age varied from 0.3% in the Northern Sydney Local Health District to 9.5% in the Far West Local Health District, while the proportion of mothers giving birth at 35 years of age or more ranged from 12.6% in the Far West Local Health District to 39.1% in the Northern Sydney Local Health District (Table 23).

TABLE 23: MATERNAL AGE BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015

Local Health District	Maternal age (Years)														TOTAL			
	12–19		20–24		25–29		30–34		35–39		40–44		45+		Not stated		No.	%
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%				
Sydney	57	0.7	494	6.0	1714	20.8	3297	40.0	2125	25.8	521	6.3	41	0.5	0	0.0	8249	100.0
South Western Sydney	310	2.4	1809	13.9	4010	30.9	4356	33.5	1988	15.3	494	3.8	29	0.2	0	0.0	12996	100.0
South Eastern Sydney	68	0.6	548	4.9	2267	20.5	4495	40.6	2971	26.8	679	6.1	49	0.4	0	0.0	11077	100.0
Illawarra Shoalhaven	147	3.3	669	14.8	1352	30.0	1528	33.9	676	15.0	127	2.8	7	0.2	1	0.0	4507	100.0
Western Sydney	269	1.8	1622	11.1	4314	29.5	5464	37.3	2440	16.7	502	3.4	29	0.2	0	0.0	14640	100.0
Nepean Blue Mountains	179	3.6	803	16.3	1603	32.5	1513	30.7	646	13.1	174	3.5	11	0.2	0	0.0	4929	100.0
Northern Sydney	26	0.3	263	2.6	1539	15.0	4429	43.1	3170	30.9	787	7.7	55	0.5	1	0.0	10270	100.0
Central Coast	129	3.4	628	16.5	1110	29.1	1220	32.0	574	15.1	143	3.8	9	0.2	0	0.0	3813	100.0
Hunter New England	496	4.6	1893	17.5	3290	30.5	3316	30.7	1457	13.5	325	3.0	20	0.2	0	0.0	10797	100.0
Northern NSW	131	5.1	473	18.5	744	29.1	718	28.1	377	14.7	108	4.2	6	0.2	0	0.0	2557	100.0
Mid North Coast	105	4.8	422	19.3	661	30.3	645	29.5	269	12.3	79	3.6	2	0.1	0	0.0	2183	100.0
Southern NSW	64	4.7	260	19.1	448	32.9	395	29.0	156	11.5	33	2.4	4	0.3	0	0.0	1360	100.0
Murrumbidgee	108	4.5	469	19.7	758	31.9	700	29.4	287	12.1	53	2.2	2	0.1	0	0.0	2377	100.0
Western NSW	247	6.7	781	21.2	1144	31.1	982	26.7	428	11.6	96	2.6	0	0.0	0	0.0	3678	100.0
Far West	21	9.5	57	25.7	64	28.8	52	23.4	23	10.4	5	2.3	0	0.0	0	0.0	222	100.0
Other—not stated	20	1.5	167	12.5	458	34.3	459	34.4	189	14.2	37	2.8	4	0.3	0	0.0	1334	100.0
TOTAL	2377	2.5	11358	12.0	25476	26.8	33569	35.3	17776	18.7	4163	4.4	268	0.3	2	0.0	94989	100.0

Source NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health

Maternal country of birth

Seventy per cent of women who gave birth in NSW in 2015 were born in English speaking countries, 18.8% were born in Asian countries, and 5.0% were born in the Middle East or Africa (Table 24). The highest proportions of mothers born in non-English speaking countries were resident in the Western Sydney, Sydney and South Western Sydney Local Health Districts.

TABLE 24: MATERNAL COUNTRY OF BIRTH BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015

Local Health District	Country of birth group																					
	English speaking		Central & South America		Melanesia, Micronesia & Polynesia		Southern Europe		Western & Northern Europe		Eastern Europe, Russia, Central Asian & Baltic States		Middle East & Africa		South East Asia		North East Asia		Southern Asia		TOTAL†	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	4512	54.7	109	1.3	87	1.1	118	1.4	109	1.3	112	1.4	453	5.5	716	8.7	1044	12.7	896	10.9	8249	100.0
South Western Sydney	7569	58.2	121	0.9	430	3.3	239	1.8	33	0.3	100	0.8	1817	14.0	1636	12.6	320	2.5	704	5.4	12996	100.0
South Eastern Sydney	7227	65.2	254	2.3	62	0.6	188	1.7	253	2.3	238	2.1	364	3.3	710	6.4	970	8.8	628	5.7	11077	100.0
Illawarra Shoalhaven	4023	89.3	20	0.4	14	0.3	46	1.0	27	0.6	21	0.5	105	2.3	89	2.0	80	1.8	68	1.5	4507	100.0
Western Sydney	6709	45.8	121	0.8	328	2.2	89	0.6	56	0.4	408	2.8	1331	9.1	992	6.8	1495	10.2	3048	20.8	14640	100.0
Nepean Blue Mountains	4260	86.4	23	0.5	53	1.1	31	0.6	17	0.3	39	0.8	118	2.4	139	2.8	46	0.9	170	3.4	4929	100.0
Northern Sydney	6446	62.8	230	2.2	52	0.5	92	0.9	235	2.3	236	2.3	291	2.8	534	5.2	1438	14.0	558	5.4	10270	100.0
Central Coast	3473	91.1	13	0.3	21	0.6	10	0.3	24	0.6	30	0.8	24	0.6	74	1.9	46	1.2	66	1.7	3813	100.0
Hunter New England	10020	92.8	25	0.2	24	0.2	27	0.3	59	0.5	45	0.4	109	1.0	174	1.6	105	1.0	165	1.5	10797	100.0
Northern NSW	2347	91.8	16	0.6	12	0.5	6	0.2	34	1.3	9	0.4	11	0.4	39	1.5	40	1.6	22	0.9	2557	100.0
Mid North Coast	2022	92.6	5	0.2	2	0.1	6	0.3	7	0.3	8	0.4	24	1.1	33	1.5	12	0.5	51	2.3	2183	100.0
Southern NSW	1257	92.4	4	0.3	7	0.5	7	0.5	6	0.4	3	0.2	10	0.7	19	1.4	6	0.4	35	2.6	1360	100.0
Murrumbidgee	2148	90.4	4	0.2	24	1.0	3	0.1	9	0.4	11	0.5	30	1.3	34	1.4	24	1.0	86	3.6	2377	100.0
Western NSW	3485	94.8	6	0.2	8	0.2	5	0.1	7	0.2	5	0.1	23	0.6	32	0.9	19	0.5	84	2.3	3678	100.0
Far West	215	96.8	0	0.0	0	0.0	2	0.9	0	0.0	0	0.0	0	0.0	3	1.4	0	0.0	2	0.9	222	100.0
Other-not stated	679	50.9	25	1.9	50	3.7	12	0.9	26	1.9	14	1.0	60	4.5	152	11.4	107	8.0	193	14.5	1334	100.0
TOTAL	66392	69.9	976	1.0	1174	1.2	881	0.9	902	0.9	1279	1.3	4770	5.0	5376	5.7	5752	6.1	6776	7.1	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

† Includes 711 mothers in NSW for whom country of birth was not stated. Maternal countries of birth and birth groups are shown in Appendix 3.

Aboriginal and Torres Strait Islander mothers

In 2015, 4.0% of mothers were reported to be Aboriginal or Torres Strait Islander (Table 25). The reported proportion of Aboriginal or Torres Strait Islander mothers varied from 0.3% in the Northern Sydney Local Health District to 19.4% in the Far West Local Health District.

TABLE 25: ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015

Local Health District	Aboriginal or Torres Strait Islander		Non-Aboriginal or Torres Strait Islander		TOTAL	
	No.	%	No.	%	No.	%
Sydney	111	1.3	8138	98.7	8249	100.0
South Western Sydney	237	1.8	12759	98.2	12996	100.0
South Eastern Sydney	110	1.0	10967	99.0	11077	100.0
Illawarra Shoalhaven	220	4.9	4287	95.1	4507	100.0
Western Sydney	246	1.7	14394	98.3	14640	100.0
Nepean Blue Mountains	243	4.9	4686	95.1	4929	100.0
Northern Sydney	32	0.3	10238	99.7	10270	100.0
Central Coast	222	5.8	3591	94.2	3813	100.0
Hunter New England	975	9.0	9822	91.0	10797	100.0
Northern NSW	241	9.4	2316	90.6	2557	100.0
Mid North Coast	248	11.4	1935	88.6	2183	100.0
Southern NSW	93	6.8	1267	93.2	1360	100.0
Murrumbidgee	172	7.2	2205	92.8	2377	100.0
Western NSW	610	16.6	3068	83.4	3678	100.0
Far West	43	19.4	179	80.6	222	100.0
Other—not stated	20	1.5	1314	98.5	1334	100.0
TOTAL	3823	4.0	91166	96.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Duration of pregnancy at first antenatal visit

In 2015, 87.3% of mothers commenced antenatal care prior to 20 weeks gestation and 64.3% commenced antenatal care prior to 14 weeks gestation. The percentage of mothers commencing antenatal care prior to 20 weeks gestation varied from 60.4% in the Southern NSW Local Health District to 94.9% in the Sydney Local Health District (Table 26).

TABLE 26: DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015

Local Health District	Duration of pregnancy at first antenatal visit (weeks)									
	0–13		14–19		20+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	6821	82.7	1011	12.3	398	4.8	19	0.2	8249	100.0
South Western Sydney	8306	63.9	2952	22.7	1665	12.8	73	0.6	12996	100.0
South Eastern Sydney	7088	64.0	3085	27.9	883	8.0	21	0.2	11077	100.0
Illawarra Shoalhaven	2253	50.0	1411	31.3	829	18.4	14	0.3	4507	100.0
Western Sydney	8012	54.7	4155	28.4	2412	16.5	61	0.4	14640	100.0
Nepean Blue Mountains	2699	54.8	1583	32.1	629	12.8	18	0.4	4929	100.0
Northern Sydney	6635	64.6	3022	29.4	595	5.8	18	0.2	10270	100.0
Central Coast	1872	49.1	1151	30.2	780	20.5	10	0.3	3813	100.0
Hunter New England	8582	79.5	1238	11.5	937	8.7	40	0.4	10797	100.0
Northern NSW	1929	75.4	333	13.0	282	11.0	13	0.5	2557	100.0
Mid North Coast	1742	79.8	188	8.6	249	11.4	4	0.2	2183	100.0
Southern NSW	420	30.9	402	29.6	532	39.1	6	0.4	1360	100.0
Murrumbidgee	1310	55.1	478	20.1	574	24.1	15	0.6	2377	100.0
Western NSW	2364	64.3	635	17.3	648	17.6	31	0.8	3678	100.0
Far West	106	47.7	87	39.2	27	12.2	2	0.9	222	100.0
Other—not stated	934	70.0	138	10.3	245	18.4	17	1.3	1334	100.0
TOTAL	61073	64.3	21869	23.0	11685	12.3	362	0.4	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Smoking in pregnancy

In 2015, 6.5% of mothers reported smoking in the second half of pregnancy (Table 27). The lowest rate was reported among mothers resident in the Northern Sydney Local Health District (0.6%) and the highest rate was reported among residents of the Far West Local Health District (26.1%).

TABLE 27: CIGARETTES SMOKED IN THE SECOND HALF OF PREGNANCY BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015

Local Health District	Cigarettes smoked in the second half of pregnancy									
	None		1–10 per day		> 10 per day		Smoked, amount not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	8079	97.9	146	1.8	19	0.2	5	0.1	8249	100.0
South Western Sydney	12253	94.3	593	4.6	147	1.1	3	0.0	12996	100.0
South Eastern Sydney	10923	98.6	119	1.1	27	0.2	8	0.1	11077	100.0
Illawarra Shoalhaven	4111	91.2	300	6.7	77	1.7	19	0.4	4507	100.0
Western Sydney	14013	95.7	457	3.1	127	0.9	43	0.3	14640	100.0
Nepean Blue Mountains	4512	91.5	321	6.5	65	1.3	31	0.6	4929	100.0
Northern Sydney	10204	99.4	52	0.5	6	0.1	8	0.1	10270	100.0
Central Coast	3420	89.7	317	8.3	58	1.5	18	0.5	3813	100.0
Hunter New England	9436	87.4	1000	9.3	303	2.8	58	0.5	10797	100.0
Northern NSW	2274	88.9	232	9.1	39	1.5	12	0.5	2557	100.0
Mid North Coast	1880	86.1	230	10.5	60	2.7	13	0.6	2183	100.0
Southern NSW	1167	85.8	151	11.1	39	2.9	3	0.2	1360	100.0
Murrumbidgee	2078	87.4	222	9.3	67	2.8	10	0.4	2377	100.0
Western NSW	3039	82.6	472	12.8	144	3.9	23	0.6	3678	100.0
Far West	164	73.9	45	20.3	13	5.9	0	0.0	222	100.0
Other—not stated	1286	96.4	34	2.5	11	0.8	3	0.2	1334	100.0
TOTAL	88839	93.5	4691	4.9	1202	1.3	257	0.3	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

Place of birth

Ninety-seven per cent of mothers chose to give birth in a hospital birthing suite in 2015, compared to 2.5% who planned a birth centre birth and 0.2% who planned a home birth (Table 28). Planned birth centre births were most commonly reported in the Hunter New England Local Health District.

TABLE 28: PLACE OF BIRTH BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015

Local Health District	Place of birth													
	Hospital		Birth centre		Planned birth centre—hospital admission		Planned homebirth		Planned homebirth—hospital admission		Born before arrival		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	7884	95.6	309	3.7	6	0.1	11	0.1	0	0.0	39	0.5	8249	100.0
South Western Sydney	12887	99.2	22	0.2	3	0.0	6	0.0	2	0.0	76	0.6	12996	100.0
South Eastern Sydney	10496	94.8	395	3.6	125	1.1	17	0.2	2	0.0	42	0.4	11077	100.0
Illawarra Shoalhaven	4446	98.6	25	0.6	4	0.1	6	0.1	1	0.0	25	0.6	4507	100.0
Western Sydney	14341	98.0	203	1.4	12	0.1	8	0.1	2	0.0	74	0.5	14640	100.0
Nepean Blue Mountains	4843	98.3	54	1.1	7	0.1	5	0.1	0	0.0	20	0.4	4929	100.0
Northern Sydney	10063	98.0	152	1.5	8	0.1	18	0.2	0	0.0	29	0.3	10270	100.0
Central Coast	3688	96.7	87	2.3	6	0.2	4	0.1	0	0.0	28	0.7	3813	100.0
Hunter New England	9870	91.4	657	6.1	103	1.0	63	0.6	8	0.1	96	0.9	10797	100.0
Northern NSW	2364	92.5	117	4.6	6	0.2	37	1.4	0	0.0	33	1.3	2557	100.0
Mid North Coast	2148	98.4	14	0.6	4	0.2	2	0.1	0	0.0	15	0.7	2183	100.0
Southern NSW	1317	96.8	15	1.1	10	0.7	0	0.0	0	0.0	18	1.3	1360	100.0
Murrumbidgee	2324	97.8	13	0.5	20	0.8	0	0.0	1	0.0	19	0.8	2377	100.0
Western NSW	3627	98.6	22	0.6	4	0.1	6	0.2	0	0.0	19	0.5	3678	100.0
Far West	220	99.1	0	0.0	0	0.0	2	0.9	0	0.0	0	0.0	222	100.0
Other—not stated	1312	98.4	10	0.7	5	0.4	2	0.1	0	0.0	5	0.4	1334	100.0
TOTAL	91830	96.7	2095	2.2	323	0.3	187	0.2	16	0.0	538	0.6	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

Labour

In 2015, the onset of labour was spontaneous in 49.7% of confinements (Table 29). Labour was induced in 30.5% of confinements and no labour (elective caesarean section) was reported in 19.8%. The rate of spontaneous onset of labour was highest among residents of the Southern NSW Local Health District (62.1%). The highest rate of induction of labour was among residents of the Illawarra Shoalhaven Local Health District (34.3%).

TABLE 29: ONSET AND AUGMENTATION OF LABOUR BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015

Local Health District	Onset of labour																			
	Spontaneous		Spontaneous augmented with ARM		Spontaneous augmented with oxytocics/prostaglandins [†]		No labour		Induced-oxytocics/prostaglandins		Induced-ARM only		Induced-ARM + oxytocics/prostaglandins		Induced-other [‡]		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	2847	34.5	294	3.6	926	11.2	1696	20.6	831	10.1	193	2.3	1427	17.3	35	0.4	0	0.0	8249	100.0
South Western Sydney	4749	36.5	1025	7.9	1173	9.0	2394	18.4	1559	12.0	154	1.2	1882	14.5	58	0.4	2	0.0	12996	100.0
South Eastern Sydney	3501	31.6	762	6.9	953	8.6	2498	22.6	1206	10.9	259	2.3	1862	16.8	35	0.3	1	0.0	11077	100.0
Illawarra Shoalhaven	1456	32.3	303	6.7	322	7.1	880	19.5	436	9.7	108	2.4	990	22.0	12	0.3	0	0.0	4507	100.0
Western Sydney	5005	34.2	970	6.6	1290	8.8	2780	19.0	1380	9.4	205	1.4	2959	20.2	51	0.3	0	0.0	14640	100.0
Nepean Blue Mountains	1715	34.8	226	4.6	231	4.7	1100	22.3	483	9.8	87	1.8	1056	21.4	31	0.6	0	0.0	4929	100.0
Northern Sydney	3714	36.2	523	5.1	785	7.6	2441	23.8	957	9.3	237	2.3	1585	15.4	28	0.3	0	0.0	10270	100.0
Central Coast	1339	35.1	212	5.6	310	8.1	747	19.6	430	11.3	54	1.4	710	18.6	11	0.3	0	0.0	3813	100.0
Hunter New England	4120	38.2	521	4.8	693	6.4	1841	17.1	1192	11.0	211	2.0	2122	19.7	97	0.9	0	0.0	10797	100.0
Northern NSW	1206	47.2	155	6.1	155	6.1	331	12.9	261	10.2	68	2.7	373	14.6	8	0.3	0	0.0	2557	100.0
Mid North Coast	956	43.8	85	3.9	102	4.7	420	19.2	217	9.9	53	2.4	347	15.9	3	0.1	0	0.0	2183	100.0
Southern NSW	657	48.3	73	5.4	114	8.4	219	16.1	137	10.1	34	2.5	124	9.1	2	0.1	0	0.0	1360	100.0
Murrumbidgee	937	39.4	108	4.5	99	4.2	546	23.0	297	12.5	66	2.8	321	13.5	3	0.1	0	0.0	2377	100.0
Western NSW	1340	36.4	201	5.5	221	6.0	682	18.5	419	11.4	102	2.8	704	19.1	9	0.2	0	0.0	3678	100.0
Far West	102	45.9	12	5.4	7	3.2	33	14.9	22	9.9	9	4.1	37	16.7	0	0.0	0	0.0	222	100.0
Other-not stated	532	39.9	63	4.7	120	9.0	219	16.4	144	10.8	29	2.2	220	16.5	7	0.5	0	0.0	1334	100.0
TOTAL	34176	36.0	5533	5.8	7501	7.9	18827	19.8	9971	10.5	1869	2.0	16719	17.6	390	0.4	3	0.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

ARM: artificial rupture of membranes.

[†] May include artificial rupture of membranes.

[‡] This category includes other forms of induction such as Foley's catheter.

Birth

Fifty-six per cent of births were normal vaginal births in 2015, 11.2% were instrumental and 32.4% were by caesarean section (Table 30). The highest rate of normal vaginal birth was 70.3% among residents of the Far West Local Health District, while the highest rate of instrumental birth was 15.4% among residents of the South Eastern Sydney Local Health District. The caesarean section rate varied from 23.0% among mothers resident in the Far West Local Health District to 37.7% in the Northern Sydney Local Health District.

TABLE 30: TYPE OF BIRTH BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015

Local Health District	Type of birth															
	Normal vaginal		Forceps		Vacuum extraction		Vaginal breech		Elective caesarean section		Emergency caesarean section [†]		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	4217	51.1	553	6.7	633	7.7	31	0.4	1696	20.6	1119	13.6	0	0.0	8249	100.0
South Western Sydney	8080	62.2	415	3.2	833	6.4	55	0.4	2394	18.4	1217	9.4	2	0.0	12996	100.0
South Eastern Sydney	5386	48.6	724	6.5	983	8.9	31	0.3	2498	22.6	1454	13.1	1	0.0	11077	100.0
Illawarra Shoalhaven	2508	55.6	127	2.8	364	8.1	14	0.3	880	19.5	614	13.6	0	0.0	4507	100.0
Western Sydney	8269	56.5	764	5.2	733	5.0	72	0.5	2780	19.0	2022	13.8	0	0.0	14640	100.0
Nepean Blue Mountains	2636	53.5	103	2.1	333	6.8	13	0.3	1099	22.3	745	15.1	0	0.0	4929	100.0
Northern Sydney	5081	49.5	698	6.8	578	5.6	37	0.4	2441	23.8	1435	14.0	0	0.0	10270	100.0
Central Coast	2142	56.2	239	6.3	221	5.8	10	0.3	747	19.6	454	11.9	0	0.0	3813	100.0
Hunter New England	6478	60.0	424	3.9	710	6.6	50	0.5	1841	17.1	1294	12.0	0	0.0	10797	100.0
Northern NSW	1733	67.8	72	2.8	122	4.8	14	0.5	331	12.9	285	11.1	0	0.0	2557	100.0
Mid North Coast	1341	61.4	87	4.0	72	3.3	8	0.4	420	19.2	255	11.7	0	0.0	2183	100.0
Southern NSW	855	62.9	63	4.6	65	4.8	1	0.1	219	16.1	157	11.5	0	0.0	1360	100.0
Murrumbidgee	1286	54.1	28	1.2	177	7.4	1	0.0	546	23.0	339	14.3	0	0.0	2377	100.0
Western NSW	2252	61.2	121	3.3	199	5.4	14	0.4	682	18.5	410	11.1	0	0.0	3678	100.0
Far West	156	70.3	8	3.6	6	2.7	1	0.5	33	14.9	18	8.1	0	0.0	222	100.0
Other-not stated	783	58.7	62	4.6	93	7.0	11	0.8	219	16.4	166	12.4	0	0.0	1334	100.0
TOTAL	53203	56.0	4488	4.7	6122	6.4	363	0.4	18826	19.8	11984	12.6	3	0.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

[†] Emergency caesarean section includes caesarean sections where the onset of labour was not stated.

Birth weight

In 2015, 6.6% of babies were low birth weight (less than 2,500 grams). These comprised 0.7% of babies with a birth weight less than 1,000 grams, 0.6% in the 1,000 to 1,499 gram range and 5.3% in the 1,500 to 2,499 gram range (Table 31). Rates of low birth weight ranged from 3.6% in the Southern NSW Local Health District to 7.8% in the Nepean Blue Mountains and Mid North Coast Local Health Districts.

TABLE 31: BIRTH WEIGHT BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015

Local Health District	Birth weight (grams)																							
	Less than 500		500–999		1,000–1,499		1,500–1,999		2,000–2,499		2,500–2,999		3,000–3,499		3,500–3,999		4,000–4,499		4,500+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	24	0.3	32	0.4	47	0.6	87	1.0	340	4.1	1552	18.6	3370	40.3	2264	27.1	560	6.7	77	0.9	6	0.1	8359	100.0
South Western Sydney	32	0.2	64	0.5	75	0.6	162	1.2	572	4.3	2289	17.3	4978	37.7	3766	28.5	1082	8.2	186	1.4	8	0.1	13214	100.0
South Eastern Sydney	33	0.3	44	0.4	59	0.5	131	1.2	423	3.8	1922	17.1	4474	39.8	3226	28.7	834	7.4	96	0.9	2	0.0	11244	100.0
Illawarra Shoalhaven	12	0.3	17	0.4	43	0.9	67	1.5	202	4.4	695	15.2	1706	37.2	1388	30.3	397	8.7	52	1.1	2	0.0	4581	100.0
Western Sydney	50	0.3	67	0.5	81	0.5	151	1.0	647	4.4	2800	18.8	5825	39.2	3977	26.7	1070	7.2	186	1.3	17	0.1	14871	100.0
Nepean Blue Mountains	19	0.4	16	0.3	28	0.6	97	1.9	229	4.6	773	15.4	1776	35.4	1515	30.2	478	9.5	80	1.6	4	0.1	5015	100.0
Northern Sydney	26	0.2	38	0.4	41	0.4	116	1.1	352	3.4	1687	16.2	4099	39.3	3114	29.9	833	8.0	116	1.1	5	0.0	10427	100.0
Central Coast	4	0.1	21	0.5	25	0.6	51	1.3	149	3.9	534	13.8	1301	33.6	1243	32.1	460	11.9	77	2.0	2	0.1	3867	100.0
Hunter New England	39	0.4	47	0.4	76	0.7	162	1.5	440	4.0	1650	15.1	3738	34.1	3440	31.4	1165	10.6	182	1.7	8	0.1	10947	100.0
Northern NSW	11	0.4	4	0.2	13	0.5	24	0.9	99	3.8	327	12.7	919	35.7	834	32.4	298	11.6	48	1.9	0	0.0	2577	100.0
Mid North Coast	8	0.4	20	0.9	12	0.5	24	1.1	108	4.9	347	15.7	736	33.2	679	30.6	248	11.2	32	1.4	2	0.1	2216	100.0
Southern NSW	2	0.1	1	0.1	3	0.2	12	0.9	31	2.3	180	13.1	494	36.1	462	33.7	154	11.2	30	2.2	0	0.0	1369	100.0
Murrumbidgee	4	0.2	5	0.2	4	0.2	23	1.0	108	4.5	352	14.6	845	35.0	764	31.7	265	11.0	39	1.6	3	0.1	2412	100.0
Western NSW	11	0.3	15	0.4	25	0.7	63	1.7	150	4.0	574	15.4	1294	34.8	1178	31.7	344	9.2	59	1.6	7	0.2	3720	100.0
Far West	0	0.0	0	0.0	0	0.0	1	0.4	12	5.4	41	18.4	76	34.1	65	29.1	25	11.2	3	1.3	0	0.0	223	100.0
Other—not stated	8	0.6	20	1.5	13	1.0	22	1.6	56	4.2	208	15.4	491	36.4	400	29.7	117	8.7	13	1.0	1	0.1	1349	100.0
TOTAL	283	0.3	411	0.4	545	0.6	1193	1.2	3918	4.1	15931	16.5	36122	37.5	28315	29.4	8330	8.6	1276	1.3	67	0.1	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Gestational age

The majority of births (91.7%) were at term, and 0.4% were post-term (42-plus weeks). The 7.9% of preterm births comprised 0.8% born at less than 28 weeks, 0.7% at 28–31 weeks, and 6.4% at 32–36 weeks. The highest rate of preterm birth was 10.0% in the Nepean Blue Mountains Local Health District, while the lowest was 3.6% in the Far West Local Health District (Table 32).

TABLE 32: GESTATIONAL AGE BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015

Local Health District	Gestational age (weeks)													
	< 28		28–31		32–36		37–41		42+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	62	0.7	63	0.8	445	5.3	7770	93.0	19	0.2	0	0.0	8359	100.0
South Western Sydney	98	0.7	101	0.8	844	6.4	12144	91.9	27	0.2	0	0.0	13214	100.0
South Eastern Sydney	80	0.7	75	0.7	638	5.7	10402	92.5	49	0.4	0	0.0	11244	100.0
Illawarra Shoalhaven	35	0.8	46	1.0	341	7.4	4142	90.4	17	0.4	0	0.0	4581	100.0
Western Sydney	118	0.8	96	0.6	870	5.9	13762	92.5	25	0.2	0	0.0	14871	100.0
Nepean Blue Mountains	40	0.8	43	0.9	421	8.4	4502	89.8	9	0.2	0	0.0	5015	100.0
Northern Sydney	58	0.6	61	0.6	588	5.6	9691	92.9	29	0.3	0	0.0	10427	100.0
Central Coast	23	0.6	24	0.6	257	6.6	3544	91.6	19	0.5	0	0.0	3867	100.0
Hunter New England	102	0.9	90	0.8	847	7.7	9864	90.1	42	0.4	2	0.0	10947	100.0
Northern NSW	16	0.6	11	0.4	145	5.6	2355	91.4	49	1.9	1	0.0	2577	100.0
Mid North Coast	22	1.0	19	0.9	176	7.9	1989	89.8	10	0.5	0	0.0	2216	100.0
Southern NSW	3	0.2	4	0.3	63	4.6	1272	92.9	27	2.0	0	0.0	1369	100.0
Murrumbidgee	13	0.5	6	0.2	200	8.3	2179	90.3	14	0.6	0	0.0	2412	100.0
Western NSW	33	0.9	33	0.9	275	7.4	3357	90.2	21	0.6	1	0.0	3720	100.0
Far West	0	0.0	0	0.0	8	3.6	215	96.4	0	0.0	0	0.0	223	100.0
Other—not stated	30	2.2	18	1.3	82	6.1	1209	89.6	10	0.7	0	0.0	1349	100.0
TOTAL	733	0.8	690	0.7	6200	6.4	88397	91.7	367	0.4	4	0.0	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hepatitis B

Ninety-four per cent of babies in NSW were given a hepatitis B vaccination at birth. The highest rate of hepatitis B vaccinations at birth was 98.2% in the Far West Local Health District, while the lowest was 80.0% in the Northern NSW Local Health District (Table 33).

TABLE 33: HEPATITIS B DOSE GIVEN TO LIVEBORN BABIES, NSW 2015

Local Health District	Hepatitis B dose given							
	No		Yes		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%
Sydney	557	6.7	7743	93.3	0	0.0	8300	100.0
South Western Sydney	282	2.1	12847	97.8	4	0.0	13133	100.0
South Eastern Sydney	990	8.8	10197	91.1	3	0.0	11190	100.0
Illawarra Shoalhaven	202	4.4	4347	95.6	0	0.0	4549	100.0
Western Sydney	518	3.5	14240	96.5	1	0.0	14759	100.0
Nepean Blue Mountains	261	5.2	4721	94.8	0	0.0	4982	100.0
Northern Sydney	730	7.0	9637	92.9	2	0.0	10369	100.0
Central Coast	198	5.1	3655	94.9	0	0.0	3853	100.0
Hunter New England	490	4.5	10375	95.5	0	0.0	10865	100.0
Northern NSW	511	20.0	2046	80.0	0	0.0	2557	100.0
Mid North Coast	194	8.8	2005	91.2	0	0.0	2199	100.0
Southern NSW	90	6.6	1272	93.4	0	0.0	1362	100.0
Murrumbidgee	64	2.7	2334	97.3	0	0.0	2398	100.0
Western NSW	138	3.7	3546	96.1	4	0.1	3688	100.0
Far West	4	1.8	219	98.2	0	0.0	223	100.0
Other—not stated	137	10.3	1194	89.7	0	0.0	1331	100.0
TOTAL	5366	5.6	90378	94.4	14	0.0	95758	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Infant feeding

In 2015, infant feeding on discharge from hospital was reported for 94,879 liveborn babies (Table 34). The majority of babies (78.9%) were reported to be fully breastfed, 9.7% were receiving infant formula only, and a further 10.5% were being partially breastfed. Rates of full breastfeeding varied from 66.7% in the South Western Sydney Local Health District to 90.0% in the Northern NSW Local Health District.

TABLE 34: LIVE BIRTHS BY INFANT FEEDING ON DISCHARGE AND LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015

Local Health District	Infant feeding									
	Full breastfeeding		Any breastfeeding		Infant formula only		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	6573	79.2	1304	15.7	375	4.5	48	0.6	8300	100.0
South Western Sydney	8759	66.7	2376	18.1	1852	14.1	146	1.1	13133	100.0
South Eastern Sydney	9284	83.0	1249	11.2	592	5.3	65	0.6	11190	100.0
Illawarra Shoalhaven	3561	78.3	275	6.0	654	14.4	59	1.3	4549	100.0
Western Sydney	11324	76.7	1850	12.5	1485	10.1	100	0.7	14759	100.0
Nepean Blue Mountains	3854	77.4	343	6.9	745	15.0	40	0.8	4982	100.0
Northern Sydney	8806	84.9	1169	11.3	332	3.2	62	0.6	10369	100.0
Central Coast	3219	83.5	240	6.2	361	9.4	33	0.9	3853	100.0
Hunter New England	8902	81.9	492	4.5	1361	12.5	110	1.0	10865	100.0
Northern NSW	2302	90.0	79	3.1	137	5.4	39	1.5	2557	100.0
Mid North Coast	1858	84.5	123	5.6	189	8.6	29	1.3	2199	100.0
Southern NSW	1143	83.9	62	4.6	131	9.6	26	1.9	1362	100.0
Murrumbidgee	1846	77.0	118	4.9	394	16.4	40	1.7	2398	100.0
Western NSW	2875	78.0	203	5.5	556	15.1	54	1.5	3688	100.0
Far West	174	78.0	8	3.6	36	16.1	5	2.2	223	100.0
Other—not stated	1082	81.3	156	11.7	70	5.3	23	1.7	1331	100.0
TOTAL	75562	78.9	10047	10.5	9270	9.7	879	0.9	95758	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Perinatal outcomes

The perinatal mortality rate in 2015 was 8.2 per 1,000 births. This rate includes all live births, and stillbirths of at least 400 grams birth weight or at least 20 weeks gestation (Table 35). The perinatal mortality rate varied from 0.0 per 1,000 births in the Far West Local Health District to 10.6 per 1,000 births in the Hunter New England Local Health District.

TABLE 35: PERINATAL OUTCOMES BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015^a

Local Health District	Liveborn surviving		Stillborn		Neonatal death		Death-age not stated		Not stated		Total births		Perinatal death rate/1,000 births ^b
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
Sydney	8285	99.1	56	0.7	15	0.2	0	0.0	3	0.0	8359	100.0	8.5
South Western Sydney	13104	99.2	79	0.6	29	0.2	0	0.0	2	0.0	13214	100.0	8.2
South Eastern Sydney	11164	99.3	51	0.5	26	0.2	0	0.0	3	0.0	11244	100.0	6.8
Illawarra Shoalhaven	4542	99.1	31	0.7	6	0.1	1	0.0	1	0.0	4581	100.0	8.1
Western Sydney	14734	99.1	107	0.7	25	0.2	0	0.0	5	0.0	14871	100.0	8.9
Nepean Blue Mountains	4969	99.1	30	0.6	13	0.3	0	0.0	3	0.1	5015	100.0	8.6
Northern Sydney	10359	99.3	58	0.6	10	0.1	0	0.0	0	0.0	10427	100.0	6.5
Central Coast	3848	99.5	14	0.4	5	0.1	0	0.0	0	0.0	3867	100.0	4.9
Hunter New England	10828	98.9	79	0.7	37	0.3	0	0.0	3	0.0	10947	100.0	10.6
Northern NSW	2556	99.2	20	0.8	1	0.0	0	0.0	0	0.0	2577	100.0	8.1
Mid North Coast	2192	98.9	16	0.7	7	0.3	0	0.0	1	0.0	2216	100.0	10.4
Southern NSW	1362	99.5	7	0.5	0	0.0	0	0.0	0	0.0	1369	100.0	5.1
Murrumbidgee	2396	99.3	14	0.6	2	0.1	0	0.0	0	0.0	2412	100.0	6.6
Western NSW	3684	99.0	22	0.6	4	0.1	0	0.0	10	0.3	3720	100.0	7.0
Far West	223	100.0	0	0.0	0	0.0	0	0.0	0	0.0	223	100.0	0
Other-not stated	1325	98.2	18	1.3	6	0.4	0	0.0	0	0.0	1349	100.0	17.8
TOTAL	95571	99.1	602	0.6	186	0.2	1	0.0	31	0.0	96391	100.0	8.2

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

Perinatal deaths include deaths reported to the PDC only. As the PDC form is completed at discharge or transfer of the baby, deaths occurring after this time may not be reported to the PDC.

† The perinatal death rate excludes deaths where the age at death was not stated.

Live births by statistical area of residence

TABLE 36: LIVE BIRTHS BY LOCAL HEALTH DISTRICT AND STATISTICAL AREA OF RESIDENCE, NSW 2015^a

Local Health District–Statistical Area Level 3 (SA3) ^a		No.	%
Sydney	Bankstown	20	0.2
	Canada Bay	1204	14.5
	Canterbury	2015	24.3
	Hurstville	105	1.3
	Leichhardt	887	10.7
	Marrickville–Sydenham–Petersham	699	8.4
	Strathfield–Burwood–Ashfield	1794	21.6
	Sydney Inner City	1576	19.0
	TOTAL	8300	100.0
South Western Sydney	Auburn	14	0.1
	Bankstown	2595	19.8
	Bringelly–Green Valley	1615	12.3
	Camden	959	7.3
	Campbelltown	2395	18.2
	Canterbury	123	0.9
	Fairfield	2203	16.8
	Liverpool	1871	14.2
	Merrylands–Guildford	447	3.4
	Penrith	61	0.5
	Southern Highlands	364	2.8
	Wollondilly	486	3.7
	TOTAL	13133	100.0
South Eastern Sydney	Botany	636	5.7
	Cronulla–Miranda–Caringbah	1408	12.6
	Eastern Suburbs–North	1845	16.5
	Eastern Suburbs–South	1925	17.2
	Hurstville	1395	12.5
	Kogarah–Rockdale	1976	17.7
	Liverpool	8	0.1
	Lord Howe Island	3	0.0
	Sutherland–Menai–Heathcote	1371	12.3
	Sydney Inner City	623	5.6
	TOTAL	11190	100.0
Illawarra Shoalhaven	Dapto–Port Kembla	956	21.0
	Kiama–Shellharbour	1071	23.5
	Shoalhaven	1007	22.1
	South Coast	2	0.0
	Wollongong	1513	33.3
TOTAL	4549	100.0	
Western Sydney	Auburn	1685	11.4
	Baulkham Hills	1295	8.8
	Blacktown	2165	14.7
	Blacktown–North	1472	10.0
	Carlingford	813	5.5
	Dural–Wisemans Ferry	139	0.9
	Merrylands–Guildford	2251	15.3
	Mount Druitt	2034	13.8
	Parramatta	2496	16.9
	Pennant Hills–Epping	97	0.7
	Rouse Hill–McGraths Hill	283	1.9
	Ryde–Hunters Hill	29	0.2
	TOTAL	14759	100.0

Local Health District–Statistical Area Level 3 (SA3) ^a		No.	%
Nepean Blue Mountains	Blue Mountains	749	15.0
	Fairfield	11	0.2
	Hawkesbury	289	5.8
	Lithgow–Mudgee	245	4.9
	Penrith	2142	43.0
	Richmond–Windsor	511	10.3
	Rouse Hill–McGraths Hill	138	2.8
	St Marys	897	18.0
	TOTAL	4982	100.0
Northern Sydney	Baulkham Hills	171	1.6
	Carlingford	49	0.5
	Chatswood–Lane Cove	1486	14.3
	Dural–Wisemans Ferry	124	1.2
	Hornsby	1034	10.0
	Ku-ring-gai	978	9.4
	Manly	662	6.4
	North Sydney–Mosman	1359	13.1
	Pennant Hills–Epping	323	3.1
	Pittwater	643	6.2
	Ryde–Hunters Hill	1617	15.6
	Warringah	1923	18.5
	TOTAL	10369	100.0
Central Coast	Gosford	1925	50.0
	Wyong	1928	50.0
	TOTAL	3853	100.0
Hunter New England	Armidale	406	3.7
	Great Lakes	277	2.5
	Inverell–Tenterfield	381	3.5
	Lake Macquarie–East	1443	13.3
	Lake Macquarie–West	848	7.8
	Lower Hunter	1184	10.9
	Maitland	1073	9.9
	Moree–Narrabri	377	3.5
	Newcastle	2018	18.6
	Port Stephens	745	6.9
	Tamworth–Gunnedah	1105	10.2
Taree–Gloucester	553	5.1	
Upper Hunter	455	4.2	
TOTAL	10865	100.0	
Northern NSW	Clarence Valley	475	18.6
	Coffs Harbour	5	0.2
	Inverell–Tenterfield	2	0.1
	Richmond Valley–Coastal	636	24.9
	Richmond Valley–Hinterland	725	28.4
	Tweed Valley	714	27.9
	TOTAL	2557	100.0
	Mid North Coast	Coffs Harbour	909
Kempsey–Nambucca		551	25.1
Port Macquarie		739	33.6
TOTAL		2199	100.0
Southern NSW	Goulburn–Yass	347	25.5
	Queanbeyan	332	24.4
	Snowy Mountains	159	11.7
	South Coast	524	38.5
	TOTAL	1362	100.0

(Continued on next page)

TABLE 36: (Continued)

Local Health District–Statistical Area Level 3 (SA3) [†]	No.	%
Murrumbidgee		
Albury	9	0.4
Goulburn–Yass	159	6.6
Griffith–Murrumbidgee (West)	653	27.2
Lachlan Valley	110	4.6
Lower Murray	36	1.5
Tumut–Tumbarumba	148	6.2
Upper Murray excluding Albury	114	4.8
Wagga Wagga	1169	48.7
TOTAL	2398	100.0
Western NSW		
Bathurst	576	15.6
Bourke–Cobar–Coonamble	391	10.6
Dubbo	943	25.6
Lachlan Valley	606	16.4
Lithgow–Mudgee	336	9.1
Orange	836	22.7
TOTAL	3688	100.0
Far West		
Broken Hill and Far West	220	98.7
Lower Murray	3	1.3
TOTAL	223	100.0
Other–not stated	1331	100.0
TOTAL NSW	95758	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Statistical Area assigned according to the Australian Bureau of Statistics Australian Standard Geographical Standard, 2011 (Cat No. 1270.0.55.001)

† Geographical boundaries for some Statistical Areas Level 3 (SA3s) overlap two or more Local Health Districts (LHDs).

6. NSW HOSPITALS

Onset and augmentation of labour

Table 37 shows onset or augmentation of labour for local health districts, and Table 38 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2015.

TABLE 37: ONSET AND AUGMENTATION OF LABOUR BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2015

Local Health District	Onset and augmentation of labour														TOTAL					
	Spontaneous		Spontaneous augmented with ARM		Spontaneous augmented with oxytocics/prostaglandins [†]		No labour		Induced-oxytocics/prostaglandins		Induced-ARM only		Induced-ARM + oxytocics/prostaglandins				Induced-other [‡]		Not stated	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	2449	37.4	131	2.0	818	12.5	1146	17.5	656	10.0	137	2.1	1180	18.0	28	0.4	0	0.0	6545	100.0
South Western Sydney	4312	40.1	920	8.6	946	8.8	1673	15.6	1356	12.6	121	1.1	1369	12.7	49	0.5	2	0.0	10748	100.0
South Eastern Sydney	2968	38.2	528	6.8	651	8.4	1152	14.8	902	11.6	180	2.3	1369	17.6	12	0.2	1	0.0	7763	100.0
Illawarra Shoalhaven	1275	38.0	227	6.8	208	6.2	535	16.0	368	11.0	76	2.3	659	19.6	6	0.2	0	0.0	3354	100.0
Western Sydney	3776	38.3	674	6.8	880	8.9	1506	15.3	999	10.1	135	1.4	1862	18.9	26	0.3	0	0.0	9858	100.0
Nepean Blue Mountains	1998	39.1	232	4.5	223	4.4	1067	20.9	482	9.4	74	1.4	1011	19.8	24	0.5	0	0.0	5111	100.0
Northern Sydney	2260	41.0	302	5.5	468	8.5	846	15.4	715	13.0	85	1.5	824	15.0	6	0.1	0	0.0	5506	100.0
Central Coast	1168	39.9	152	5.2	235	8.0	470	16.1	353	12.1	33	1.1	512	17.5	3	0.1	0	0.0	2926	100.0
Hunter New England	3734	41.7	425	4.8	556	6.2	1322	14.8	1065	11.9	154	1.7	1655	18.5	34	0.4	0	0.0	8945	100.0
Northern NSW	1418	46.2	184	6.0	184	6.0	393	12.8	321	10.5	83	2.7	476	15.5	8	0.3	0	0.0	3067	100.0
Mid North Coast	960	44.4	87	4.0	101	4.7	405	18.7	210	9.7	54	2.5	342	15.8	3	0.1	0	0.0	2162	100.0
Southern NSW	683	48.6	75	5.3	122	8.7	226	16.1	134	9.5	37	2.6	126	9.0	1	0.1	0	0.0	1404	100.0
Murrumbidgee	820	43.1	102	5.4	90	4.7	343	18.0	239	12.6	46	2.4	262	13.8	1	0.1	0	0.0	1903	100.0
Western NSW	1270	37.6	187	5.5	215	6.4	563	16.6	384	11.4	98	2.9	659	19.5	6	0.2	0	0.0	3382	100.0
Far West	100	45.7	11	5.0	7	3.2	32	14.6	23	10.5	9	4.1	37	16.9	0	0.0	0	0.0	219	100.0
Private Hospitals	4905	22.3	1296	5.9	1797	8.2	7148	32.5	1764	8.0	547	2.5	4376	19.9	183	0.8	0	0.0	22016	100.0
TOTAL*	34176	36.0	5533	5.8	7501	7.9	18827	19.8	9971	10.5	1869	2.0	16719	17.6	390	0.4	3	0.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

ARM: artificial rupture of membranes.

[†] May include artificial rupture of membranes.

[‡] This category includes other forms of induction such as Foley's catheter.

* Total includes births at home assisted by independent midwives.

TABLE 38: ONSET AND AUGMENTATION OF LABOUR BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2015[†]

Maternity service level-hospital	Onset and augmentation of labour														TOTAL					
	Spontaneous		Spontaneous augmented with ARM		Spontaneous augmented with oxytocics/prostaglandins [†]		No labour		Induced-oxytocics/prostaglandins		Induced-ARM only		Induced-ARM + oxytocics/prostaglandins				Induced-other [‡]		Not stated	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Level 6																				
Royal Prince Alfred	1858	38.4	0	0.0	646	13.4	900	18.6	456	9.4	107	2.2	849	17.6	21	0.4	0	0.0	4837	100.0
Royal North Shore	927	35.5	133	5.1	227	8.7	492	18.8	343	13.1	44	1.7	443	17.0	3	0.1	0	0.0	2612	100.0
Royal Hospital for Women	1644	41.1	249	6.2	294	7.4	625	15.6	434	10.9	98	2.5	645	16.1	8	0.2	1	0.0	3998	100.0
Liverpool	1303	38.1	296	8.7	310	9.1	608	17.8	416	12.2	45	1.3	411	12.0	27	0.8	0	0.0	3416	100.0
Nepean	1513	39.0	180	4.6	182	4.7	812	20.9	336	8.7	47	1.2	785	20.2	24	0.6	0	0.0	3879	100.0
Westmead	1910	34.9	403	7.4	553	10.1	886	16.2	536	9.8	75	1.4	1096	20.0	14	0.3	0	0.0	5473	100.0
John Hunter	1388	35.8	186	4.8	280	7.2	642	16.6	506	13.1	68	1.8	789	20.4	17	0.4	0	0.0	3876	100.0
TOTAL	10543	37.5	1447	5.2	2492	8.9	4965	17.7	3027	10.8	484	1.7	5018	17.9	114	0.4	1	0.0	28091	100.0
Level 5																				
Gosford	1044	37.6	130	4.7	235	8.5	470	16.9	353	12.7	33	1.2	512	18.4	3	0.1	0	0.0	2780	100.0
St. George	847	34.2	174	7.0	211	8.5	343	13.9	325	13.1	60	2.4	511	20.6	4	0.2	0	0.0	2475	100.0
Blacktown	1264	41.0	191	6.2	217	7.0	470	15.3	312	10.1	50	1.6	570	18.5	6	0.2	0	0.0	3080	100.0
Coffs Harbour	423	40.2	47	4.5	54	5.1	233	22.1	101	9.6	32	3.0	161	15.3	1	0.1	0	0.0	1052	100.0
Lismore Base	545	49.1	60	5.4	67	6.0	141	12.7	88	7.9	31	2.8	172	15.5	6	0.5	0	0.0	1110	100.0
Tweed Heads	532	40.0	75	5.6	92	6.9	154	11.6	181	13.6	40	3.0	254	19.1	1	0.1	0	0.0	1329	100.0
Port Macquarie Base	330	41.5	30	3.8	38	4.8	147	18.5	79	9.9	17	2.1	152	19.1	2	0.3	0	0.0	795	100.0
Dubbo Base	357	30.7	63	5.4	65	5.6	200	17.2	186	16.0	35	3.0	253	21.8	3	0.3	0	0.0	1162	100.0

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TABLE 38: (Continued)

Maternity service level-hospital	Onset and augmentation of labour																				
	Spontaneous		Spontaneous augmented with ARM		Spontaneous augmented with oxytocics/prostaglandins†		No labour		Induced-oxytocics/prostaglandins		Induced-ARM only		Induced-ARM + oxytocics/prostaglandins		Induced-other‡		Not stated		TOTAL		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
Wollongong	899	36.9	187	7.7	171	7.0	356	14.6	252	10.3	54	2.2	514	21.1	6	0.2	0	0.0	2439	100.0	
Maitland	657	42.9	63	4.1	97	6.3	181	11.8	208	13.6	19	1.2	302	19.7	4	0.3	0	0.0	1531	100.0	
Wagga Wagga Base	314	36.5	36	4.2	47	5.5	181	21.0	110	12.8	12	1.4	161	18.7	0	0.0	0	0.0	861	100.0	
TOTAL	7212	38.7	1056	5.7	1294	7.0	2876	15.5	2195	11.8	383	2.1	3562	19.1	36	0.2	0	0.0	18614	100.0	
Level 4																					
Canterbury	591	34.6	131	7.7	172	10.1	246	14.4	200	11.7	30	1.8	331	19.4	7	0.4	0	0.0	1708	100.0	
Hornsby	526	46.2	85	7.5	114	10.0	137	12.0	131	11.5	16	1.4	126	11.1	3	0.3	0	0.0	1138	100.0	
Manly	368	38.3	41	4.3	85	8.8	125	13.0	161	16.8	11	1.1	170	17.7	0	0.0	0	0.0	961	100.0	
Mona Vale	325	48.4	33	4.9	42	6.3	92	13.7	80	11.9	14	2.1	85	12.7	0	0.0	0	0.0	671	100.0	
Sutherland	477	37.0	105	8.1	145	11.2	184	14.3	143	11.1	22	1.7	213	16.5	0	0.0	0	0.0	1289	100.0	
Auburn	602	46.1	80	6.1	110	8.4	150	11.5	151	11.6	10	0.8	196	15.0	6	0.5	0	0.0	1305	100.0	
Fairfield	680	40.8	216	13.0	182	10.9	236	14.2	173	10.4	5	0.3	174	10.4	0	0.0	0	0.0	1666	100.0	
Campbelltown	1298	42.4	165	5.4	224	7.3	442	14.4	429	14.0	44	1.4	441	14.4	15	0.5	1	0.0	3059	100.0	
Bankstown-Lidcombe	877	39.4	185	8.3	201	9.0	341	15.3	303	13.6	22	1.0	288	12.9	6	0.3	1	0.0	2224	100.0	
Hawkesbury	286	38.1	34	4.5	16	2.1	163	21.7	75	10.0	14	1.9	163	21.7	0	0.0	0	0.0	751	100.0	
Grafton Base	175	42.9	31	7.6	25	6.1	62	15.2	52	12.7	12	2.9	50	12.3	1	0.2	0	0.0	408	100.0	
Tamworth Base	385	37.4	61	5.9	66	6.4	152	14.8	119	11.6	12	1.2	228	22.1	7	0.7	0	0.0	1030	100.0	
Manning Base	313	43.7	34	4.7	40	5.6	98	13.7	66	9.2	19	2.7	142	19.8	4	0.6	0	0.0	716	100.0	
Orange Base	302	29.9	62	6.1	73	7.2	190	18.8	101	10.0	27	2.7	255	25.2	1	0.1	0	0.0	1011	100.0	
Goulburn Base	133	43.2	21	6.8	47	15.3	60	19.5	28	9.1	2	0.6	17	5.5	0	0.0	0	0.0	308	100.0	
Griffith Base	199	40.8	28	5.7	29	5.9	86	17.6	72	14.8	19	3.9	54	11.1	1	0.2	0	0.0	488	100.0	
TOTAL	7537	40.2	1312	7.0	1571	8.4	2764	14.8	2284	12.2	279	1.5	2933	15.7	51	0.3	2	0.0	18733	100.0	
Level 3																					
Blue Mountains	127	49.8	9	3.5	13	5.1	57	22.4	19	7.5	5	2.0	25	9.8	0	0.0	0	0.0	255	100.0	
Kempsey	157	60.2	8	3.1	9	3.4	25	9.6	30	11.5	3	1.1	29	11.1	0	0.0	0	0.0	261	100.0	
Armidale	195	46.7	13	3.1	21	5.0	62	14.8	61	14.6	9	2.2	56	13.4	1	0.2	0	0.0	418	100.0	
Inverell	63	27.6	6	2.6	23	10.1	62	27.2	31	13.6	1	0.4	42	18.4	0	0.0	0	0.0	228	100.0	
Mudgee	121	49.2	7	2.8	8	3.3	41	16.7	21	8.5	11	4.5	36	14.6	1	0.4	0	0.0	246	100.0	
Bathurst Base	268	51.3	19	3.6	31	5.9	83	15.9	45	8.6	18	3.4	57	10.9	1	0.2	0	0.0	522	100.0	
Lithgow	72	31.9	9	4.0	12	5.3	35	15.5	52	23.0	8	3.5	38	16.8	0	0.0	0	0.0	226	100.0	
Bega	107	48.9	7	3.2	19	8.7	34	15.5	27	12.3	5	2.3	20	9.1	0	0.0	0	0.0	219	100.0	
Moruya	164	54.5	8	2.7	13	4.3	47	15.6	30	10.0	9	3.0	30	10.0	0	0.0	0	0.0	301	100.0	
Queanbeyan	184	44.3	35	8.4	40	9.6	65	15.7	34	8.2	12	2.9	44	10.6	1	0.2	0	0.0	415	100.0	
Bowral	154	40.2	58	15.1	29	7.6	46	12.0	35	9.1	5	1.3	55	14.4	1	0.3	0	0.0	383	100.0	
Shoalhaven	354	39.7	38	4.3	37	4.2	179	20.1	116	13.0	22	2.5	145	16.3	0	0.0	0	0.0	891	100.0	
Muswellbrook	139	67.1	8	3.9	6	2.9	28	13.5	14	6.8	1	0.5	11	5.3	0	0.0	0	0.0	207	100.0	
Broken Hill Base	100	45.7	11	5.0	7	3.2	32	14.6	23	10.5	9	4.1	37	16.9	0	0.0	0	0.0	219	100.0	
Other hospitals	903	52.1	121	7.0	72	4.2	252	14.5	147	8.5	45	2.6	192	11.1	1	0.1	0	0.0	1733	100.0	
TOTAL	3108	47.6	357	5.5	340	5.2	1048	16.1	685	10.5	163	2.5	817	12.5	6	0.1	0	0.0	6524	100.0	
Level 2																					
TOTAL	779	85.0	64	7.0	6	0.7	26	2.8	16	1.7	13	1.4	13	1.4	0	0.0	0	0.0	917	100.0	
Private																					
Mater, North Sydney	589	26.7	134	6.1	204	9.2	770	34.8	135	6.1	82	3.7	279	12.6	17	0.8	0	0.0	2210	100.0	
North Shore Private	591	24.5	161	6.7	224	9.3	849	35.2	124	5.1	65	2.7	380	15.8	16	0.7	0	0.0	2410	100.0	
Sydney Adventist	896	46.2	0	0.0	1	0.1	528	27.2	97	5.0	43	2.2	373	19.2	1	0.1	0	0.0	1939	100.0	
North Gosford Private	115	16.8	51	7.5	75	11.0	201	29.4	55	8.0	18	2.6	166	24.3	3	0.4	0	0.0	684	100.0	
Hurstville Community	194	27.5	43	6.1	82	11.6	196	27.8	55	7.8	6	0.9	128	18.2	1	0.1	0	0.0	705	100.0	
Kareena Private	126	16.3	45	5.8	64	8.3	321	41.5	50	6.5	10	1.3	152	19.7	5	0.6	0	0.0	773	100.0	
St. George Private	304	19.5	75	4.8	160	10.2	497	31.8	256	16.4	86	5.5	163	10.4	21	1.3	0	0.0	1562	100.0	
Prince of Wales Private	396	17.2	207	9.0	146	6.3	925	40.1	190	8.2	47	2.0	395	17.1	2	0.1	0	0.0	2308	100.0	
Norwest Private	315	15.2	123	5.9	207	10.0	584	28.2	160	7.7	30	1.4	633	30.6	17	0.8	0	0.0	2069	100.0	
Sydney Southwest Private	181	18.6	38	3.9	112	11.5	306	31.5	119	12.2	13	1.3	200	20.6	3	0.3	0	0.0	972	100.0	
Nepean Private	132	16.6	38	4.8	34	4.3	256	32.3	74	9.3	29	3.7	217	27.4	13	1.6	0	0.0	793	100.0	
Westmead Private	409	18.8	207	9.5	247	11.4	638	29.4	200	9.2	15	0.7	447	20.6	8	0.4	0	0.0	2171	100.0	
Figtree Private	114	12.3	62	6.7	96	10.3	274	29.5	40	4.3	27	2.9	313	33.7	4	0.4	0	0.0	930	100.0	
Newcastle Private	413	21.2	103	5.3	139	7.1	552	28.3	148	7.6	57	2.9	470	24.1	70	3.6	0	0.0	1952	100.0	
Calvary, Wagga Wagga	130	26.4	8	1.6	6	1.2	207	42.0	61	12.4	19	3.9	60	12.2	2	0.4	0	0.0	493	100.0	
Other hospitals	0	0.0	1	2.2	1	2.2	44	95.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	46	100.0	
TOTAL	4905	22.3	1296	5.9	1798	8.2	7148	32.5	1764	8.0	547	2.5	4376	19.9	183	0.8	0	0.0	22017	100.0	
TOTAL NSW*	34176	36.0	5533	5.8	7501	7.9	18827	19.8	9971	10.5	1869	2.0	16719	17.6	390	0.4	3	0.0	94989	100.0	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

ARM: artificial rupture of membranes.

Hospitals with more than 200 births in 2015 are identified individually. Maternity service levels are described on page 82 in Appendix 2: Explanatory notes.

† May include artificial rupture of membranes.

‡ This category includes other forms of induction such as Foley's catheter.

* Total NSW includes births at home assisted by independent midwives and births at level 1 hospitals.

Type of birth

Table 39 shows type of birth for local health districts, and Table 40 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2015.

TABLE 39: TYPE OF BIRTH BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2015

Local Health District	Type of birth															
	Normal vaginal		Forceps		Vacuum extraction		Vaginal breech		Elective caesarean section		Emergency caesarean section [†]		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	3596	54.9	471	7.2	459	7.0	28	0.4	1146	17.5	845	12.9	0	0.0	6545	100.0
South Western Sydney	7081	65.9	280	2.6	652	6.1	54	0.5	1673	15.6	1006	9.4	2	0.0	10748	100.0
South Eastern Sydney	4231	54.5	630	8.1	635	8.2	38	0.5	1152	14.8	1076	13.9	1	0.0	7763	100.0
Illawarra Shoalhaven	2024	60.3	108	3.2	215	6.4	9	0.3	535	16.0	463	13.8	0	0.0	3354	100.0
Western Sydney	5954	60.4	544	5.5	370	3.8	74	0.8	1506	15.3	1410	14.3	0	0.0	9858	100.0
Nepean Blue Mountains	2789	54.6	94	1.8	336	6.6	12	0.2	1067	20.9	813	15.9	0	0.0	5111	100.0
Northern Sydney	3142	57.1	531	9.6	221	4.0	17	0.3	846	15.4	749	13.6	0	0.0	5506	100.0
Central Coast	1778	60.8	202	6.9	149	5.1	7	0.2	470	16.1	320	10.9	0	0.0	2926	100.0
Hunter New England	5647	63.1	384	4.3	455	5.1	52	0.6	1322	14.8	1085	12.1	0	0.0	8945	100.0
Northern NSW	2084	67.9	93	3.0	152	5.0	17	0.6	393	12.8	328	10.7	0	0.0	3067	100.0
Mid North Coast	1334	61.7	85	3.9	74	3.4	4	0.2	405	18.7	260	12.0	0	0.0	2162	100.0
Southern NSW	886	63.1	68	4.8	66	4.7	0	0.0	226	16.1	158	11.3	0	0.0	1404	100.0
Murrumbidgee	1140	59.9	25	1.3	135	7.1	1	0.1	343	18.0	259	13.6	0	0.0	1903	100.0
Western NSW	2114	62.5	114	3.4	190	5.6	10	0.3	563	16.6	391	11.6	0	0.0	3382	100.0
Far West	154	70.3	9	4.1	5	2.3	1	0.5	32	14.6	18	8.2	0	0.0	219	100.0
Private Hospitals	9169	41.6	850	3.9	2008	9.1	39	0.2	7147	32.5	2803	12.7	0	0.0	22016	100.0
TOTAL*	53203	56.0	4488	4.7	6122	6.4	363	0.4	18826	19.8	11984	12.6	3	0.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

[†] Emergency caesarean section includes caesarean sections where the onset of labour was not stated.

* Total includes births at home assisted by independent midwives.

TABLE 40: TYPE OF BIRTH BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2015[#]

Maternity service level-hospital	Type of birth															
	Normal vaginal		Forceps		Vacuum extraction		Vaginal breech		Elective caesarean section		Emergency caesarean section [†]		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Level 6																
Royal Prince Alfred	2587	53.5	386	8.0	337	7.0	26	0.5	900	18.6	601	12.4	0	0.0	4837	100.0
Royal North Shore	1349	51.6	294	11.3	84	3.2	13	0.5	492	18.8	380	14.5	0	0.0	2612	100.0
Royal Hospital for Women	2069	51.8	392	9.8	320	8.0	31	0.8	625	15.6	560	14.0	1	0.0	3998	100.0
Liverpool	2126	62.2	132	3.9	199	5.8	30	0.9	608	17.8	321	9.4	0	0.0	3416	100.0
Nepean	2078	53.6	75	1.9	255	6.6	11	0.3	812	20.9	648	16.7	0	0.0	3879	100.0
Westmead	3209	58.6	344	6.3	205	3.7	61	1.1	886	16.2	768	14.0	0	0.0	5473	100.0
John Hunter	2308	59.5	231	6.0	166	4.3	34	0.9	642	16.6	495	12.8	0	0.0	3876	100.0
TOTAL	15726	56.0	1854	6.6	1566	5.6	206	0.7	4965	17.7	3773	13.4	1	0.0	28091	100.0
Level 5																
Gosford	1632	58.7	202	7.3	149	5.4	7	0.3	470	16.9	320	11.5	0	0.0	2780	100.0
St. George	1359	54.9	138	5.6	249	10.1	6	0.2	343	13.9	380	15.4	0	0.0	2475	100.0
Blacktown	1844	59.9	138	4.5	136	4.4	12	0.4	470	15.3	480	15.6	0	0.0	3080	100.0
Coffs Harbour	624	59.3	38	3.6	46	4.4	1	0.1	233	22.1	110	10.5	0	0.0	1052	100.0
Lismore Base	753	67.8	34	3.1	51	4.6	8	0.7	141	12.7	123	11.1	0	0.0	1110	100.0
Tweed Heads	880	66.2	51	3.8	85	6.4	6	0.5	154	11.6	153	11.5	0	0.0	1329	100.0
Port Macquarie Base	464	58.4	46	5.8	22	2.8	2	0.3	147	18.5	114	14.3	0	0.0	795	100.0
Dubbo Base	718	61.8	57	4.9	44	3.8	4	0.3	200	17.2	139	12.0	0	0.0	1162	100.0
Wollongong	1499	61.5	76	3.1	182	7.5	7	0.3	356	14.6	319	13.1	0	0.0	2439	100.0
Maitland	1018	66.5	67	4.4	89	5.8	3	0.2	181	11.8	173	11.3	0	0.0	1531	100.0
Wagga Wagga Base	445	51.7	17	2.0	61	7.1	0	0.0	181	21.0	157	18.2	0	0.0	861	100.0
TOTAL	11236	60.4	864	4.6	1114	6.0	56	0.3	2876	15.5	2468	13.3	0	0.0	18614	100.0
Level 4																
Canterbury	1009	59.1	85	5.0	122	7.1	2	0.1	246	14.4	244	14.3	0	0.0	1708	100.0
Hornsby	725	63.7	117	10.3	34	3.0	2	0.2	137	12.0	123	10.8	0	0.0	1138	100.0
Manly	544	56.6	81	8.4	67	7.0	0	0.0	125	13.0	144	15.0	0	0.0	961	100.0
Mona Vale	400	59.6	39	5.8	36	5.4	2	0.3	92	13.7	102	15.2	0	0.0	671	100.0

(Continued on next page)

TABLE 40: (Continued)

Maternity service level-hospital	Type of birth															
	Normal vaginal		Forceps		Vacuum extraction		Vaginal breech		Elective caesarean section		Emergency caesarean section [†]		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sutherland	802	62.2	100	7.8	66	5.1	1	0.1	184	14.3	136	10.6	0	0.0	1289	100.0
Auburn	901	69.0	62	4.8	29	2.2	1	0.1	150	11.5	162	12.4	0	0.0	1305	100.0
Fairfield	1219	73.2	13	0.8	59	3.5	5	0.3	236	14.2	134	8.0	0	0.0	1666	100.0
Campbelltown	2042	66.8	37	1.2	244	8.0	12	0.4	442	14.4	281	9.2	1	0.0	3059	100.0
Bankstown-Lidcombe	1452	65.3	67	3.0	135	6.1	7	0.3	341	15.3	221	9.9	1	0.0	2224	100.0
Hawkesbury	406	54.1	15	2.0	58	7.7	1	0.1	163	21.7	108	14.4	0	0.0	751	100.0
Grafton Base	269	65.9	8	2.0	15	3.7	2	0.5	62	15.2	52	12.7	0	0.0	408	100.0
Tamworth Base	642	62.3	48	4.7	44	4.3	5	0.5	152	14.8	139	13.5	0	0.0	1030	100.0
Manning Base	448	62.6	7	1.0	67	9.4	5	0.7	98	13.7	91	12.7	0	0.0	716	100.0
Orange Base	582	57.6	34	3.4	89	8.8	5	0.5	190	18.8	111	11.0	0	0.0	1011	100.0
Goulburn Base	180	58.4	24	7.8	14	4.5	0	0.0	60	19.5	30	9.7	0	0.0	308	100.0
Griffith Base	290	59.4	3	0.6	43	8.8	1	0.2	86	17.6	65	13.3	0	0.0	488	100.0
TOTAL	11911	63.6	740	4.0	1122	6.0	51	0.3	2764	14.8	2143	11.4	2	0.0	18733	100.0
Level 3																
Blue Mountains	153	60.0	3	1.2	14	5.5	0	0.0	57	22.4	28	11.0	0	0.0	255	100.0
Kempsey	192	73.6	1	0.4	6	2.3	1	0.4	25	9.6	36	13.8	0	0.0	261	100.0
Armidale	245	58.6	15	3.6	19	4.5	2	0.5	62	14.8	75	17.9	0	0.0	418	100.0
Inverell	124	54.4	13	5.7	9	3.9	3	1.3	62	27.2	17	7.5	0	0.0	228	100.0
Mudgee	157	63.8	2	0.8	17	6.9	0	0.0	41	16.7	29	11.8	0	0.0	246	100.0
Bathurst Base	335	64.2	18	3.4	19	3.6	0	0.0	83	15.9	67	12.8	0	0.0	522	100.0
Lithgow	152	67.3	1	0.4	9	4.0	0	0.0	35	15.5	29	12.8	0	0.0	226	100.0
Bega	134	61.2	10	4.6	7	3.2	0	0.0	34	15.5	34	15.5	0	0.0	219	100.0
Moruya	203	67.4	17	5.6	7	2.3	0	0.0	47	15.6	27	9.0	0	0.0	301	100.0
Queanbeyan	246	59.3	17	4.1	34	8.2	0	0.0	65	15.7	53	12.8	0	0.0	415	100.0
Bowral	242	63.2	31	8.1	15	3.9	0	0.0	46	12.0	49	12.8	0	0.0	383	100.0
Shoalhaven	503	56.5	32	3.6	32	3.6	2	0.2	179	20.1	143	16.0	0	0.0	891	100.0
Muswellbrook	148	71.5	1	0.5	8	3.9	0	0.0	28	13.5	22	10.6	0	0.0	207	100.0
Broken Hill Base	154	70.3	9	4.1	5	2.3	1	0.5	32	14.6	18	8.2	0	0.0	219	100.0
Other hospitals	1227	70.8	10	0.6	89	5.1	0	0.0	252	14.5	155	8.9	0	0.0	1733	100.0
TOTAL	4215	64.6	180	2.8	290	4.4	9	0.1	1048	16.1	782	12.0	0	0.0	6524	100.0
Level 2																
TOTAL	853	93.0	0	0.0	22	2.4	1	0.1	26	2.8	15	1.6	0	0.0	917	100.0
Private																
Mater, North Sydney	797	36.1	70	3.2	227	10.3	4	0.2	770	34.8	342	15.5	0	0.0	2210	100.0
North Shore Private	846	35.1	116	4.8	206	8.5	6	0.2	849	35.2	387	16.1	0	0.0	2410	100.0
Sydney Adventist	1039	53.6	57	2.9	91	4.7	3	0.2	528	27.2	221	11.4	0	0.0	1939	100.0
North Gosford Private	273	39.9	28	4.1	66	9.6	1	0.1	201	29.4	115	16.8	0	0.0	684	100.0
Hurstville Community	338	47.9	13	1.8	55	7.8	1	0.1	196	27.8	102	14.5	0	0.0	705	100.0
Kareena Private	285	36.9	55	7.1	47	6.1	0	0.0	321	41.5	65	8.4	0	0.0	773	100.0
St. George Private	605	38.7	67	4.3	187	12.0	2	0.1	497	31.8	204	13.1	0	0.0	1562	100.0
Prince of Wales Private	818	35.4	75	3.2	218	9.4	2	0.1	925	40.1	270	11.7	0	0.0	2308	100.0
Norwest Private	986	47.7	104	5.0	171	8.3	4	0.2	584	28.2	220	10.6	0	0.0	2069	100.0
Sydney Southwest Private	430	44.2	61	6.3	99	10.2	1	0.1	306	31.5	75	7.7	0	0.0	972	100.0
Nepean Private	362	45.6	6	0.8	75	9.5	2	0.3	255	32.2	93	11.7	0	0.0	793	100.0
Westmead Private	970	44.7	154	7.1	126	5.8	6	0.3	638	29.4	277	12.8	0	0.0	2171	100.0
Figtree Private	382	41.1	5	0.5	137	14.7	2	0.2	274	29.5	130	14.0	0	0.0	930	100.0
Newcastle Private	878	45.0	36	1.8	261	13.4	5	0.3	552	28.3	220	11.3	0	0.0	1952	100.0
Calvary, Wagga Wagga	159	32.3	3	0.6	42	8.5	0	0.0	207	42.0	82	16.6	0	0.0	493	100.0
Other hospitals	2	4.3	0	0.0	0	0.0	0	0.0	44	95.7	0	0.0	0	0.0	46	100.0
TOTAL	9170	41.6	850	3.9	2008	9.1	39	0.2	7147	32.5	2803	12.7	0	0.0	22017	100.0
TOTAL NSW*	53203	56.0	4488	4.7	6122	6.4	363	0.4	18826	19.8	11984	12.6	3	0.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually. Maternity service levels are described on page 82 in Appendix 2: Explanatory notes.

† Emergency caesarean section includes caesarean sections where the onset of labour was not stated.

* Total NSW includes births at home assisted by independent midwives and births at level 1 hospitals.

Pain relief

Table 41 shows type of pain relief provided to women during labour or delivery for local health districts, and Table 42 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2015.

In addition to the types of pain relief shown in the tables, in 2015 a further 24,872 (26.2%) women were reported to have received local anaesthetic to the perineum, and 739 (0.8%) received a pudendal block.

TABLE 41: PAIN RELIEF BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2015

Local Health District	Epidural-spinal [†]		General anaesthetic		IM narcotics		Nitrous oxide		Nil		TOTAL [‡]	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	3432	52.4	287	4.4	406	6.2	3062	46.8	717	11.0	6545	100.0
South Western Sydney	3699	34.4	451	4.2	2108	19.6	5341	49.7	1422	13.2	10748	100.0
South Eastern Sydney	4097	52.8	193	2.5	1101	14.2	3774	48.6	463	6.0	7763	100.0
Illawarra Shoalhaven	1561	46.5	100	3.0	360	10.7	1729	51.6	289	8.6	3354	100.0
Western Sydney	4672	47.4	361	3.7	928	9.4	4781	48.5	559	5.7	9858	100.0
Nepean Blue Mountains	2433	47.6	283	5.5	843	16.5	2462	48.2	391	7.7	5111	100.0
Northern Sydney	2747	49.9	147	2.7	542	9.8	2316	42.1	356	6.5	5506	100.0
Central Coast	1342	45.9	69	2.4	508	17.4	1277	43.6	274	9.4	2926	100.0
Hunter New England	3384	37.8	432	4.8	1616	18.1	4437	49.6	946	10.6	8945	100.0
Northern NSW	1108	36.1	101	3.3	437	14.2	1379	45.0	361	11.8	3067	100.0
Mid North Coast	936	43.3	81	3.7	211	9.8	1028	47.5	197	9.1	2162	100.0
Southern NSW	508	36.2	35	2.5	188	13.4	690	49.1	213	15.2	1404	100.0
Murrumbidgee	714	37.5	68	3.6	438	23.0	900	47.3	264	13.9	1903	100.0
Western NSW	1333	39.4	141	4.2	686	20.3	1703	50.4	291	8.6	3382	100.0
Far West	63	28.8	6	2.7	36	16.4	107	48.9	28	12.8	219	100.0
Private Hospitals	16573	75.3	307	1.4	1502	6.8	6052	27.5	1173	5.3	22016	100.0
TOTAL[*]	48602	51.2	3062	3.2	11910	12.5	41038	43.2	8018	8.4	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

[†] The category 'Epidural-spinal' includes epidural, spinal, combined epidural and spinal, and caudal pain relief.

[‡] Row percentages do not sum to 100 per cent as one woman may have more than one type of analgesia.

* Total includes births at home assisted by independent midwives.

TABLE 42: PAIN RELIEF BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2015[#]

Maternity service level—hospital	Epidural-spinal [†]		General anaesthetic		IM narcotics		Nitrous oxide		Nil		TOTAL [‡]	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Level 6												
Royal Prince Alfred	2721	56.3	217	4.5	233	4.8	2160	44.7	531	11.0	4837	100.0
Royal North Shore	1519	58.2	61	2.3	223	8.5	1092	41.8	106	4.1	2612	100.0
Royal Hospital for Women	2234	55.9	63	1.6	576	14.4	1761	44.0	234	5.9	3998	100.0
Liverpool	1406	41.2	157	4.6	822	24.1	1558	45.6	270	7.9	3416	100.0
Nepean	1912	49.3	243	6.3	658	17.0	1927	49.7	258	6.7	3879	100.0
Westmead	2870	52.4	189	3.5	481	8.8	2496	45.6	161	2.9	5473	100.0
John Hunter	1717	44.3	243	6.3	793	20.5	1925	49.7	284	7.3	3876	100.0
TOTAL	14379	51.2	1173	4.2	3786	13.5	12919	46.0	1844	6.6	28091	100.0
Level 5												
Gosford	1342	48.3	69	2.5	508	18.3	1237	44.5	252	9.1	2780	100.0
St. George	1230	49.7	85	3.4	429	17.3	1314	53.1	138	5.6	2475	100.0
Blacktown	1355	44.0	137	4.4	353	11.5	1504	48.8	260	8.4	3080	100.0
Coffs Harbour	491	46.7	37	3.5	85	8.1	481	45.7	75	7.1	1052	100.0
Lismore Base	444	40.0	32	2.9	140	12.6	491	44.2	152	13.7	1110	100.0
Tweed Heads	492	37.0	41	3.1	215	16.2	656	49.4	124	9.3	1329	100.0
Port Macquarie Base	375	47.2	43	5.4	50	6.3	379	47.7	66	8.3	795	100.0
Dubbo Base	472	40.6	68	5.9	325	28.0	570	49.1	95	8.2	1162	100.0
Wollongong	1151	47.2	70	2.9	188	7.7	1270	52.1	197	8.1	2439	100.0
Maitland	546	35.7	42	2.7	169	11.0	794	51.9	215	14.0	1531	100.0
Wagga Wagga Base	409	47.5	48	5.6	191	22.2	383	44.5	95	11.0	861	100.0
TOTAL	8307	44.6	672	3.6	2653	14.3	9079	48.8	1669	9.0	18614	100.0
Level 4												
Canterbury	711	41.6	70	4.1	173	10.1	902	52.8	186	10.9	1708	100.0
Hornsby	480	42.2	38	3.3	136	12.0	572	50.3	72	6.3	1138	100.0
Manly	459	47.8	27	2.8	98	10.2	327	34.0	83	8.6	961	100.0
Mona Vale	288	42.9	21	3.1	85	12.7	295	44.0	71	10.6	671	100.0
Sutherland	632	49.0	45	3.5	96	7.4	699	54.2	91	7.1	1289	100.0

(Continued on next page)

TABLE 42: (Continued)

Maternity service level–hospital	Epidural-spinal [†]		General anaesthetic		IM narcotics		Nitrous oxide		Nil		TOTAL [‡]	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Auburn	447	34.3	35	2.7	94	7.2	781	59.8	138	10.6	1305	100.0
Fairfield	376	22.6	73	4.4	266	16.0	874	52.5	278	16.7	1666	100.0
Campbelltown	1003	32.8	119	3.9	519	17.0	1536	50.2	569	18.6	3059	100.0
Bankstown-Lidcombe	769	34.6	89	4.0	378	17.0	1218	54.8	244	11.0	2224	100.0
Hawkesbury	323	43.0	31	4.1	126	16.8	331	44.1	78	10.4	751	100.0
Grafton Base	136	33.3	28	6.9	79	19.4	209	51.2	46	11.3	408	100.0
Tamworth Base	457	44.4	49	4.8	155	15.0	541	52.5	100	9.7	1030	100.0
Manning Base	230	32.1	36	5.0	180	25.1	389	54.3	84	11.7	716	100.0
Orange Base	487	48.2	27	2.7	171	16.9	507	50.1	81	8.0	1011	100.0
Goulburn Base	120	39.0	11	3.6	58	18.8	189	61.4	16	5.2	308	100.0
Griffith Base	189	38.7	13	2.7	134	27.5	252	51.6	61	12.5	488	100.0
TOTAL	7107	37.9	712	3.8	2748	14.7	9622	51.4	2198	11.7	18733	100.0
Level 3												
Blue Mountains	110	43.1	6	2.4	19	7.5	95	37.3	27	10.6	255	100.0
Kempsey	70	26.8	1	0.4	62	23.8	149	57.1	35	13.4	261	100.0
Armidale	145	34.7	16	3.8	119	28.5	211	50.5	25	6.0	418	100.0
Inverell	78	34.2	1	0.4	40	17.5	83	36.4	39	17.1	228	100.0
Mudgee	74	30.1	9	3.7	21	8.5	114	46.3	21	8.5	246	100.0
Bathurst Base	192	36.8	25	4.8	53	10.2	250	47.9	45	8.6	522	100.0
Lithgow	88	38.9	3	1.3	40	17.7	109	48.2	28	12.4	226	100.0
Bega	88	40.2	7	3.2	44	20.1	86	39.3	45	20.5	219	100.0
Moruya	101	33.6	4	1.3	35	11.6	136	45.2	51	16.9	301	100.0
Queanbeyan	165	39.8	9	2.2	35	8.4	196	47.2	63	15.2	415	100.0
Bowral	145	37.9	13	3.4	123	32.1	155	40.5	61	15.9	383	100.0
Shoalhaven	409	45.9	30	3.4	172	19.3	448	50.3	85	9.5	891	100.0
Muswellbrook	51	24.6	1	0.5	19	9.2	97	46.9	33	15.9	207	100.0
Broken Hill Base	63	28.8	6	2.7	36	16.4	107	48.9	28	12.8	219	100.0
Other hospitals	410	23.7	59	3.4	357	20.6	863	49.8	282	16.3	1733	100.0
TOTAL	2189	33.6	190	2.9	1175	18.0	3099	47.5	868	13.3	6524	100.0
Level 2												
TOTAL	46	5.0	8	0.9	46	5.0	265	28.9	183	20.0	917	100.0
Private												
Mater, North Sydney	1671	75.6	20	0.9	122	5.5	642	29.0	81	3.7	2210	100.0
North Shore Private	1901	78.9	23	1.0	83	3.4	605	25.1	74	3.1	2410	100.0
Sydney Adventist	1371	70.7	29	1.5	173	8.9	595	30.7	68	3.5	1939	100.0
North Gosford Private	475	69.4	10	1.5	34	5.0	167	24.4	52	7.6	684	100.0
Hurstville Community	514	72.9	14	2.0	28	4.0	182	25.8	37	5.2	705	100.0
Kareena Private	652	84.3	15	1.9	17	2.2	145	18.8	16	2.1	773	100.0
St. George Private	1300	83.2	25	1.6	36	2.3	255	16.3	71	4.5	1562	100.0
Prince of Wales Private	1952	84.6	24	1.0	86	3.7	574	24.9	145	6.3	2308	100.0
Norwest Private	1496	72.3	49	2.4	158	7.6	612	29.6	168	8.1	2069	100.0
Sydney Southwest Private	622	64.0	14	1.4	256	26.3	264	27.2	84	8.6	972	100.0
Nepean Private	511	64.4	16	2.0	142	17.9	301	38.0	43	5.4	793	100.0
Westmead Private	1612	74.3	27	1.2	109	5.0	645	29.7	53	2.4	2171	100.0
Figtree Private	761	81.8	18	1.9	5	0.5	256	27.5	38	4.1	930	100.0
Newcastle Private	1353	69.3	20	1.0	201	10.3	684	35.0	184	9.4	1952	100.0
Calvary, Wagga Wagga	337	68.4	3	0.6	52	10.5	125	25.4	59	12.0	493	100.0
Other hospitals	46	100.0	0	0.0	0	0.0	0	0.0	0	0.0	46	100.0
TOTAL	16574	75.3	307	1.4	1502	6.8	6052	27.5	1173	5.3	22017	100.0
TOTAL NSW*	48602	51.2	3062	3.2	11910	12.5	41038	43.2	8018	8.4	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually. Maternity service levels are described on page 82 in Appendix 2: Explanatory notes.

† The category 'Epidural-spinal' includes epidural, spinal, combined epidural and spinal, and caudal pain relief.

‡ Row percentages do not sum to 100 per cent as one woman may have more than one type of analgesia.

* Total NSW includes births at home assisted by independent midwives and births at level 1 hospitals.

Perineal status

Table 43 shows the perineal status in vaginal births for local health districts, and Table 44 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2015.

In 2015, there were 1,919 cases of third degree tear and 103 cases of fourth degree tear reported among women who gave birth vaginally, including tears associated with an episiotomy.

TABLE 43: PERINEAL STATUS AMONG VAGINAL BIRTHS BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2015

Local Health District	Perineal status																	
	Intact		1st degree tear/ graze		2nd degree tear		3rd or 4th degree tear		Episiotomy		Combined tear and episiotomy		Other		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	652	14.3	935	20.5	1664	36.5	196	4.3	806	17.7	187	4.1	114	2.5	0	0.0	4554	100.0
South Western Sydney	1950	24.2	1910	23.7	2253	27.9	177	2.2	1334	16.5	173	2.1	270	3.3	0	0.0	8067	100.0
South Eastern Sydney	856	15.5	1592	28.8	1541	27.8	169	3.1	1041	18.8	297	5.4	38	0.7	0	0.0	5534	100.0
Illawarra Shoalhaven	665	28.2	789	33.5	508	21.6	40	1.7	286	12.1	56	2.4	12	0.5	0	0.0	2356	100.0
Western Sydney	1144	16.5	2062	29.7	1634	23.5	110	1.6	1480	21.3	459	6.6	53	0.8	0	0.0	6942	100.0
Nepean Blue Mountains	610	18.9	1301	40.3	707	21.9	44	1.4	424	13.1	116	3.6	29	0.9	0	0.0	3231	100.0
Northern Sydney	551	14.1	1142	29.2	1238	31.7	155	4.0	548	14.0	255	6.5	22	0.6	0	0.0	3911	100.0
Central Coast	398	18.6	891	41.7	445	20.8	55	2.6	226	10.6	104	4.9	17	0.8	0	0.0	2136	100.0
Hunter New England	1500	22.9	2548	39.0	1416	21.7	167	2.6	595	9.1	249	3.8	63	1.0	0	0.0	6538	100.0
Northern NSW	557	23.7	887	37.8	604	25.7	50	2.1	181	7.7	57	2.4	10	0.4	0	0.0	2346	100.0
Mid North Coast	343	22.9	586	39.1	342	22.8	20	1.3	133	8.9	50	3.3	23	1.5	0	0.0	1497	100.0
Southern NSW	270	26.5	361	35.4	241	23.6	27	2.6	80	7.8	29	2.8	12	1.2	0	0.0	1020	100.0
Murrumbidgee	388	29.8	452	34.7	270	20.8	27	2.1	117	9.0	43	3.3	4	0.3	0	0.0	1301	100.0
Western NSW	578	23.8	952	39.2	480	19.8	56	2.3	255	10.5	92	3.8	13	0.5	2	0.1	2428	100.0
Far West	32	18.9	97	57.4	25	14.8	1	0.6	11	6.5	1	0.6	2	1.2	0	0.0	169	100.0
Private Hospitals	2217	18.4	2023	16.8	3781	31.3	103	0.9	3099	25.7	262	2.2	581	4.8	0	0.0	12066	100.0
TOTAL*	12756	19.9	18539	28.9	17172	26.8	1397	2.2	10616	16.5	2430	3.8	1264	2.0	2	0.0	64176	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

* Total includes births at home assisted by independent midwives.

TABLE 44: PERINEAL STATUS AMONG VAGINAL BIRTHS BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2015*

Maternity service level-hospital	Perineal status																	
	Intact		1st degree tear/ graze		2nd degree tear		3rd or 4th degree tear		Episiotomy		Combined tear and episiotomy		Other		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Level 6																		
Royal Prince Alfred	416	12.5	694	20.8	1280	38.4	155	4.6	563	16.9	151	4.5	77	2.3	0	0.0	3336	100.0
Royal North Shore	210	12.1	483	27.8	550	31.6	54	3.1	294	16.9	139	8.0	10	0.6	0	0.0	1740	100.0
Royal Hospital for Women	417	14.8	838	29.8	778	27.7	86	3.1	528	18.8	146	5.2	19	0.7	0	0.0	2812	100.0
Liverpool	547	22.0	571	23.0	682	27.4	49	2.0	463	18.6	62	2.5	113	4.5	0	0.0	2487	100.0
Nepean	424	17.5	1018	42.1	496	20.5	33	1.4	329	13.6	96	4.0	23	1.0	0	0.0	2419	100.0
Westmead	556	14.6	1026	26.9	925	24.2	52	1.4	913	23.9	305	8.0	42	1.1	0	0.0	3819	100.0
John Hunter	510	18.6	1103	40.3	641	23.4	82	3.0	252	9.2	132	4.8	19	0.7	0	0.0	2739	100.0
TOTAL	3080	15.9	5733	29.6	5352	27.7	511	2.6	3342	17.3	1031	5.3	303	1.6	0	0.0	19352	100.0
Level 5																		
Gosford	371	18.6	809	40.7	413	20.8	52	2.6	226	11.4	102	5.1	17	0.9	0	0.0	1990	100.0
St. George	285	16.3	440	25.1	551	31.4	48	2.7	314	17.9	106	6.1	8	0.5	0	0.0	1752	100.0
Blacktown	345	16.2	746	35.0	479	22.5	42	2.0	401	18.8	110	5.2	7	0.3	0	0.0	2130	100.0
Coffs Harbour	155	21.9	283	39.9	158	22.3	11	1.6	66	9.3	22	3.1	14	2.0	0	0.0	709	100.0
Lismore Base	187	22.1	344	40.7	203	24.0	20	2.4	68	8.0	20	2.4	4	0.5	0	0.0	846	100.0
Tweed Heads	206	20.2	359	35.1	291	28.5	27	2.6	103	10.1	33	3.2	3	0.3	0	0.0	1022	100.0
Port Macquarie Base	111	20.8	197	36.9	129	24.2	7	1.3	60	11.2	25	4.7	5	0.9	0	0.0	534	100.0
Dubbo Base	234	28.4	288	35.0	154	18.7	10	1.2	110	13.4	19	2.3	8	1.0	0	0.0	823	100.0
Wollongong	464	26.3	572	32.4	417	23.6	29	1.6	227	12.9	45	2.6	10	0.6	0	0.0	1764	100.0
Maitland	263	22.3	480	40.8	243	20.6	42	3.6	92	7.8	48	4.1	9	0.8	0	0.0	1177	100.0
Wagga Wagga Base	122	23.3	191	36.5	115	22.0	12	2.3	57	10.9	24	4.6	2	0.4	0	0.0	523	100.0
TOTAL	2743	20.7	4709	35.5	3153	23.8	300	2.3	1724	13.0	554	4.2	87	0.7	0	0.0	13270	100.0
Level 4																		
Canterbury	236	19.4	241	19.8	384	31.5	41	3.4	243	20.0	36	3.0	37	3.0	0	0.0	1218	100.0
Hornsby	131	14.9	237	27.0	311	35.4	33	3.8	117	13.3	45	5.1	4	0.5	0	0.0	878	100.0
Manly	90	13.0	192	27.7	214	30.9	37	5.3	103	14.9	53	7.7	3	0.4	0	0.0	692	100.0
Mona Vale	84	17.6	180	37.7	126	26.4	31	6.5	34	7.1	18	3.8	4	0.8	0	0.0	477	100.0
Sutherland	154	15.9	313	32.3	212	21.9	35	3.6	199	20.5	45	4.6	11	1.1	0	0.0	969	100.0

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TABLE 44: (Continued)

Maternity service level-hospital	Perineal status																	
	Intact		1st degree tear/ graze		2nd degree tear		3rd or 4th degree tear		Episiotomy		Combined tear and episiotomy		Other		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Auburn	243	24.5	290	29.2	230	23.2	16	1.6	166	16.7	44	4.4	4	0.4	0	0.0	993	100.0
Fairfield	377	29.1	297	22.9	352	27.2	32	2.5	192	14.8	19	1.5	27	2.1	0	0.0	1296	100.0
Campbelltown	566	24.2	577	24.7	703	30.1	45	1.9	348	14.9	23	1.0	73	3.1	0	0.0	2335	100.0
Bankstown-Lidcombe	383	23.1	388	23.4	444	26.7	47	2.8	286	17.2	66	4.0	47	2.8	0	0.0	1661	100.0
Hawkesbury	118	24.6	147	30.6	132	27.5	7	1.5	66	13.8	9	1.9	1	0.2	0	0.0	480	100.0
Grafton Base	103	35.0	102	34.7	72	24.5	3	1.0	8	2.7	3	1.0	3	1.0	0	0.0	294	100.0
Tamworth Base	167	22.6	297	40.2	148	20.0	11	1.5	84	11.4	24	3.2	8	1.1	0	0.0	739	100.0
Manning Base	148	28.1	198	37.6	110	20.9	14	2.7	36	6.8	9	1.7	12	2.3	0	0.0	527	100.0
Orange Base	128	18.0	301	42.4	136	19.2	16	2.3	78	11.0	48	6.8	3	0.4	0	0.0	710	100.0
Goulburn Base	60	27.5	59	27.1	50	22.9	5	2.3	39	17.9	2	0.9	3	1.4	0	0.0	218	100.0
Griffith Base	103	30.6	128	38.0	72	21.4	1	0.3	24	7.1	8	2.4	1	0.3	0	0.0	337	100.0
TOTAL	3091	22.4	3947	28.6	3696	26.7	374	2.7	2023	14.6	452	3.3	241	1.7	0	0.0	13824	100.0
Level 3																		
Blue Mountains	37	21.8	64	37.6	50	29.4	4	2.4	6	3.5	6	3.5	3	1.8	0	0.0	170	100.0
Kempsey	59	29.5	81	40.5	46	23.0	2	1.0	6	3.0	3	1.5	3	1.5	0	0.0	200	100.0
Armidale	75	26.7	100	35.6	48	17.1	4	1.4	42	14.9	9	3.2	3	1.1	0	0.0	281	100.0
Inverell	45	30.2	47	31.5	16	10.7	0	0.0	38	25.5	2	1.3	1	0.7	0	0.0	149	100.0
Mudgee	43	24.4	65	36.9	48	27.3	2	1.1	15	8.5	3	1.7	0	0.0	0	0.0	176	100.0
Bathurst Base	65	17.5	172	46.2	79	21.2	14	3.8	30	8.1	12	3.2	0	0.0	0	0.0	372	100.0
Lithgow	31	19.1	72	44.4	29	17.9	0	0.0	23	14.2	5	3.1	2	1.2	0	0.0	162	100.0
Bega	44	29.1	44	29.1	46	30.5	1	0.7	8	5.3	7	4.6	1	0.7	0	0.0	151	100.0
Moruya	69	30.4	87	38.3	42	18.5	10	4.4	9	4.0	8	3.5	2	0.9	0	0.0	227	100.0
Queanbeyan	58	19.5	123	41.4	70	23.6	6	2.0	23	7.7	11	3.7	6	2.0	0	0.0	297	100.0
Bowral	77	26.7	77	26.7	72	25.0	4	1.4	45	15.6	3	1.0	10	3.5	0	0.0	288	100.0
Shoalhaven	193	33.9	206	36.2	88	15.5	11	1.9	58	10.2	11	1.9	2	0.4	0	0.0	569	100.0
Muswellbrook	30	19.1	74	47.1	30	19.1	6	3.8	6	3.8	4	2.5	7	4.5	0	0.0	157	100.0
Broken Hill Base	32	18.9	97	57.4	25	14.8	1	0.6	11	6.5	1	0.6	2	1.2	0	0.0	169	100.0
Other hospitals	433	32.7	444	33.5	277	20.9	36	2.7	90	6.8	41	3.1	5	0.4	0	0.0	1326	100.0
TOTAL	1291	27.5	1753	37.3	966	20.6	101	2.2	410	8.7	126	2.7	47	1.0	0	0.0	4694	100.0
Level 2																		
TOTAL	283	32.3	358	40.9	201	22.9	8	0.9	18	2.1	5	0.6	3	0.3	0	0.0	876	100.0
Private																		
Mater, North Sydney	204	18.6	197	17.9	326	29.7	16	1.5	295	26.9	32	2.9	28	2.6	0	0.0	1098	100.0
North Shore Private	181	15.4	256	21.8	422	35.9	12	1.0	272	23.2	7	0.6	24	2.0	0	0.0	1174	100.0
Sydney Adventist	250	21.0	282	23.7	393	33.0	7	0.6	235	19.7	13	1.1	10	0.8	0	0.0	1190	100.0
North Gosford Private	82	22.3	65	17.7	107	29.1	5	1.4	79	21.5	19	5.2	11	3.0	0	0.0	368	100.0
Hurstville Community	88	21.6	83	20.4	128	31.4	2	0.5	94	23.1	7	1.7	5	1.2	0	0.0	407	100.0
Kareena Private	63	16.3	84	21.7	149	38.5	3	0.8	81	20.9	0	0.0	7	1.8	0	0.0	387	100.0
St. George Private	150	17.4	175	20.3	341	39.6	10	1.2	165	19.2	0	0.0	20	2.3	0	0.0	861	100.0
Prince of Wales Private	205	18.4	143	12.8	299	26.9	7	0.6	323	29.0	46	4.1	90	8.1	0	0.0	1113	100.0
Norwest Private	296	23.4	161	12.7	384	30.4	4	0.3	313	24.7	29	2.3	78	6.2	0	0.0	1265	100.0
Sydney Southwest Private	96	16.2	78	13.2	116	19.6	4	0.7	233	39.4	21	3.6	43	7.3	0	0.0	591	100.0
Nepean Private	72	16.2	36	8.1	127	28.5	2	0.4	156	35.1	16	3.6	36	8.1	0	0.0	445	100.0
Westmead Private	179	14.3	198	15.8	294	23.4	5	0.4	540	43.0	5	0.4	35	2.8	0	0.0	1256	100.0
Figtree Private	94	17.9	85	16.2	171	32.5	2	0.4	163	31.0	1	0.2	10	1.9	0	0.0	526	100.0
Newcastle Private	211	17.9	139	11.8	463	39.2	24	2.0	108	9.2	64	5.4	171	14.5	0	0.0	1180	100.0
Calvary, Wagga Wagga	46	22.5	41	20.1	60	29.4	0	0.0	42	20.6	2	1.0	13	6.4	0	0.0	204	100.0
Other hospitals	0	0.0	1	50.0	1	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	100.0
TOTAL	2217	18.4	2024	16.8	3781	31.3	103	0.9	3099	25.7	262	2.2	581	4.8	0	0.0	12067	100.0
TOTAL NSW*	12756	19.9	18539	28.9	17172	26.8	1397	2.2	10616	16.5	2430	3.8	1264	2.0	2	0.0	64176	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually. Maternity service levels are described on page 82 in Appendix 2: Explanatory notes.

* Total NSW includes births at home assisted by independent midwives and births at level 1 hospitals.

Birth weight

Table 45 shows the birth weight of babies for local health districts, and Table 46 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2015.

TABLE 45: BIRTHS BY BIRTH WEIGHT AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2015

Local Health District	Birth weight											
	Less than 1,000		1,000–1,499		1,500–2,499		2,500+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	67	1.0	76	1.1	392	5.9	6114	91.9	5	0.1	6654	100.0
South Western Sydney	98	0.9	70	0.6	629	5.8	10126	92.6	8	0.1	10931	100.0
South Eastern Sydney	78	1.0	74	0.9	439	5.6	7309	92.5	1	0.0	7901	100.0
Illawarra Shoalhaven	16	0.5	15	0.4	210	6.2	3159	92.9	0	0.0	3400	100.0
Western Sydney	99	1.0	73	0.7	573	5.7	9244	92.4	20	0.2	10009	100.0
Nepean Blue Mountains	52	1.0	53	1.0	377	7.2	4724	90.7	4	0.1	5210	100.0
Northern Sydney	60	1.1	45	0.8	261	4.7	5219	93.4	5	0.1	5590	100.0
Central Coast	6	0.2	4	0.1	149	5.0	2792	94.6	1	0.0	2952	100.0
Hunter New England	98	1.1	96	1.1	567	6.2	8309	91.5	8	0.1	9078	100.0
Northern NSW	19	0.6	9	0.3	140	4.5	2922	94.5	1	0.0	3091	100.0
Mid North Coast	11	0.5	2	0.1	114	5.2	2061	94.2	1	0.0	2189	100.0
Southern NSW	2	0.1	3	0.2	35	2.5	1370	97.2	0	0.0	1410	100.0
Murrumbidgee	7	0.4	3	0.2	94	4.9	1817	94.4	3	0.2	1924	100.0
Western NSW	11	0.3	6	0.2	173	5.1	3222	94.3	4	0.1	3416	100.0
Far West	0	0.0	0	0.0	12	5.5	208	94.5	0	0.0	220	100.0
Private Hospitals	70	0.3	16	0.1	945	4.2	21299	95.4	6	0.0	22336	100.0
TOTAL*	694	0.7	545	0.6	5111	5.3	89974	93.3	67	0.1	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

* Total includes births at home assisted by independent midwives.

TABLE 46: BIRTHS BY BIRTH WEIGHT, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2015*

Maternity service level–hospital	Birth weight											
	Less than 1,000		1,000–1,499		1,500–2,499		2,500+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Level 6												
Royal Prince Alfred	59	1.2	72	1.5	303	6.1	4499	91.1	4	0.1	4937	100.0
Royal North Shore	51	1.9	41	1.5	180	6.7	2399	89.7	4	0.1	2675	100.0
Royal Hospital for Women	65	1.6	71	1.7	259	6.3	3697	90.3	0	0.0	4092	100.0
Liverpool	77	2.2	68	1.9	301	8.5	3075	87.2	4	0.1	3525	100.0
Nepean	50	1.3	53	1.3	339	8.5	3523	88.8	4	0.1	3969	100.0
Westmead	72	1.3	62	1.1	394	7.0	5046	90.3	16	0.3	5590	100.0
John Hunter	79	2.0	86	2.2	360	9.1	3442	86.7	4	0.1	3971	100.0
TOTAL	453	1.6	453	1.6	2136	7.4	25681	89.3	36	0.1	28759	100.0
Level 5												
Gosford	6	0.2	4	0.1	149	5.3	2646	94.3	1	0.0	2806	100.0
St. George	10	0.4	3	0.1	152	6.0	2351	93.4	1	0.0	2517	100.0
Blacktown	22	0.7	9	0.3	129	4.2	2944	94.8	3	0.1	3107	100.0
Coffs Harbour	5	0.5	2	0.2	54	5.1	1006	94.3	0	0.0	1067	100.0
Lismore Base	7	0.6	5	0.4	52	4.7	1054	94.3	0	0.0	1118	100.0
Tweed Heads	10	0.7	1	0.1	58	4.3	1271	94.8	1	0.1	1341	100.0
Port Macquarie Base	3	0.4	0	0.0	46	5.7	756	93.8	1	0.1	806	100.0
Dubbo Base	4	0.3	4	0.3	77	6.6	1085	92.7	1	0.1	1171	100.0
Wollongong	15	0.6	12	0.5	168	6.8	2285	92.1	0	0.0	2480	100.0
Maitland	3	0.2	2	0.1	60	3.9	1476	95.7	2	0.1	1543	100.0
Wagga Wagga Base	4	0.5	3	0.3	60	6.8	807	92.1	2	0.2	876	100.0
TOTAL	89	0.5	45	0.2	1005	5.3	17681	93.9	12	0.1	18832	100.0
Level 4												
Canterbury	8	0.5	4	0.2	89	5.2	1615	94.1	1	0.1	1717	100.0
Hornsby	4	0.3	1	0.1	43	3.7	1102	95.7	1	0.1	1151	100.0
Manly	2	0.2	2	0.2	21	2.2	941	97.4	0	0.0	966	100.0
Mona Vale	3	0.4	1	0.1	17	2.5	653	96.9	0	0.0	674	100.0
Sutherland	3	0.2	0	0.0	28	2.2	1260	97.6	0	0.0	1291	100.0
Auburn	5	0.4	2	0.2	50	3.8	1254	95.6	1	0.1	1312	100.0
Fairfield	2	0.1	0	0.0	68	4.1	1599	95.7	1	0.1	1670	100.0
Campbelltown	11	0.4	2	0.1	172	5.5	2915	93.9	3	0.1	3103	100.0
Bankstown-Lidcombe	8	0.4	0	0.0	77	3.4	2160	96.2	0	0.0	2245	100.0

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TABLE 46: (Continued)

Maternity service level–hospital	Birth weight											
	Less than 1,000		1,000–1,499		1,500–2,499		2,500+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Hawkesbury	2	0.3	0	0.0	24	3.2	733	96.6	0	0.0	759	100.0
Grafton Base	2	0.5	3	0.7	28	6.8	379	92.0	0	0.0	412	100.0
Tamworth Base	7	0.7	3	0.3	51	4.9	983	94.2	0	0.0	1044	100.0
Manning Base	7	1.0	2	0.3	32	4.5	677	94.2	1	0.1	719	100.0
Orange Base	4	0.4	2	0.2	55	5.3	968	93.9	2	0.2	1031	100.0
Goulburn Base	1	0.3	1	0.3	11	3.5	297	95.8	0	0.0	310	100.0
Griffith Base	2	0.4	0	0.0	24	4.9	468	94.7	0	0.0	494	100.0
TOTAL	71	0.4	23	0.1	790	4.2	18004	95.3	10	0.1	18898	100.0
Level 3												
Blue Mountains	0	0.0	0	0.0	2	0.8	253	99.2	0	0.0	255	100.0
Kempsey	3	1.1	0	0.0	8	3.1	251	95.8	0	0.0	262	100.0
Armidale	2	0.5	1	0.2	31	7.3	390	91.8	1	0.2	425	100.0
Inverell	0	0.0	0	0.0	7	3.1	222	96.9	0	0.0	229	100.0
Mudgee	0	0.0	0	0.0	3	1.2	243	98.8	0	0.0	246	100.0
Bathurst Base	0	0.0	0	0.0	18	3.4	507	96.6	0	0.0	525	100.0
Lithgow	0	0.0	0	0.0	12	5.3	215	94.7	0	0.0	227	100.0
Bega	0	0.0	1	0.5	3	1.4	215	98.2	0	0.0	219	100.0
Moruya	1	0.3	1	0.3	12	3.9	291	95.4	0	0.0	305	100.0
Queanbeyan	0	0.0	0	0.0	8	1.9	407	98.1	0	0.0	415	100.0
Bowral	0	0.0	0	0.0	11	2.8	377	97.2	0	0.0	388	100.0
Shoalhaven	1	0.1	3	0.3	42	4.7	850	94.9	0	0.0	896	100.0
Muswellbrook	0	0.0	0	0.0	8	3.9	199	96.1	0	0.0	207	100.0
Broken Hill Base	0	0.0	0	0.0	12	5.5	208	94.5	0	0.0	220	100.0
Other hospitals	4	0.2	2	0.1	41	2.4	1688	97.2	1	0.1	1736	100.0
TOTAL	11	0.2	8	0.1	218	3.3	6316	96.4	2	0.0	6555	100.0
Level 2												
TOTAL	0	0.0	0	0.0	12	1.3	905	98.7	0	0.0	917	100.0
Private												
Mater, North Sydney	5	0.2	2	0.1	110	4.9	2132	94.8	0	0.0	2249	100.0
North Shore Private	12	0.5	2	0.1	113	4.6	2320	94.8	1	0.0	2448	100.0
Sydney Adventist	5	0.3	2	0.1	70	3.6	1891	96.0	1	0.1	1969	100.0
North Gosford Private	4	0.6	1	0.1	21	3.0	666	96.2	0	0.0	692	100.0
Hurstville Community	1	0.1	0	0.0	21	2.9	692	96.9	0	0.0	714	100.0
Kareena Private	1	0.1	0	0.0	30	3.8	754	96.1	0	0.0	785	100.0
St. George Private	6	0.4	1	0.1	75	4.7	1503	94.8	0	0.0	1585	100.0
Prince of Wales Private	2	0.1	1	0.0	94	4.0	2231	95.8	0	0.0	2328	100.0
Norwest Private	7	0.3	3	0.1	117	5.6	1972	93.9	1	0.0	2100	100.0
Sydney Southwest Private	1	0.1	0	0.0	25	2.6	954	97.3	0	0.0	980	100.0
Nepean Private	3	0.4	0	0.0	25	3.1	776	96.5	0	0.0	804	100.0
Westmead Private	7	0.3	2	0.1	108	4.9	2091	94.7	0	0.0	2208	100.0
Figtree Private	4	0.4	1	0.1	36	3.8	902	95.6	1	0.1	944	100.0
Newcastle Private	11	0.6	1	0.1	68	3.4	1896	95.9	2	0.1	1978	100.0
Calvary, Wagga Wagga	1	0.2	0	0.0	32	6.3	474	93.5	0	0.0	507	100.0
Other hospitals	0	0.0	0	0.0	0	0.0	46	100.0	0	0.0	46	100.0
TOTAL	70	0.3	16	0.1	945	4.2	21300	95.4	6	0.0	22337	100.0
TOTAL NSW*	694	0.7	545	0.6	5111	5.3	89974	93.3	67	0.1	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually. Maternity service levels are described on page 82 in Appendix 2: Explanatory notes.

* Total NSW includes births at home assisted by independent midwives and births at level 1 hospitals.

Gestational age

Table 47 shows the gestational age of babies for local health districts, and Table 48 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2015.

TABLE 47: BIRTHS BY GESTATIONAL AGE AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2015

Local Health District	Gestational age											
	<32		32–33		34–36		37+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	172	2.6	63	0.9	331	5.0	6088	91.5	0	0.0	6654	100.0
South Western Sydney	194	1.8	127	1.2	561	5.1	10049	91.9	0	0.0	10931	100.0
South Eastern Sydney	174	2.2	84	1.1	371	4.7	7272	92.0	0	0.0	7901	100.0
Illawarra Shoalhaven	31	0.9	41	1.2	218	6.4	3110	91.5	0	0.0	3400	100.0
Western Sydney	195	1.9	84	0.8	513	5.1	9217	92.1	0	0.0	10009	100.0
Nepean Blue Mountains	127	2.4	85	1.6	373	7.2	4625	88.8	0	0.0	5210	100.0
Northern Sydney	112	2.0	48	0.9	265	4.7	5165	92.4	0	0.0	5590	100.0
Central Coast	14	0.5	23	0.8	154	5.2	2761	93.5	0	0.0	2952	100.0
Hunter New England	227	2.5	125	1.4	622	6.9	8102	89.2	2	0.0	9078	100.0
Northern NSW	29	0.9	17	0.5	150	4.9	2894	93.6	1	0.0	3091	100.0
Mid North Coast	13	0.6	7	0.3	151	6.9	2018	92.2	0	0.0	2189	100.0
Southern NSW	5	0.4	3	0.2	49	3.5	1353	96.0	0	0.0	1410	100.0
Murrumbidgee	13	0.7	19	1.0	119	6.2	1773	92.2	0	0.0	1924	100.0
Western NSW	25	0.7	13	0.4	222	6.5	3155	92.4	1	0.0	3416	100.0
Far West	0	0.0	2	0.9	6	2.7	212	96.4	0	0.0	220	100.0
Private Hospitals	92	0.4	85	0.4	1268	5.7	20891	93.5	0	0.0	22336	100.0
TOTAL*	1423	1.5	826	0.9	5374	5.6	88764	92.1	4	0.0	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

* Total includes births at home assisted by independent midwives.

TABLE 48: BIRTHS BY GESTATIONAL AGE, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2015*

Maternity service level–hospital	Gestational age											
	<32		32–33		34–36		37+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Level 6												
Royal Prince Alfred	158	3.2	59	1.2	273	5.5	4447	90.1	0	0.0	4937	100.0
Royal North Shore	99	3.7	43	1.6	158	5.9	2375	88.8	0	0.0	2675	100.0
Royal Hospital for Women	149	3.6	65	1.6	197	4.8	3681	90.0	0	0.0	4092	100.0
Liverpool	167	4.7	106	3.0	214	6.1	3038	86.2	0	0.0	3525	100.0
Nepean	125	3.1	83	2.1	307	7.7	3454	87.0	0	0.0	3969	100.0
Westmead	155	2.8	62	1.1	330	5.9	5043	90.2	0	0.0	5590	100.0
John Hunter	188	4.7	106	2.7	337	8.5	3340	84.1	0	0.0	3971	100.0
TOTAL	1041	3.6	524	1.8	1816	6.3	25378	88.2	0	0.0	28759	100.0
Level 5												
Gosford	14	0.5	23	0.8	154	5.5	2615	93.2	0	0.0	2806	100.0
St. George	22	0.9	18	0.7	136	5.4	2341	93.0	0	0.0	2517	100.0
Blacktown	32	1.0	18	0.6	149	4.8	2908	93.6	0	0.0	3107	100.0
Coffs Harbour	7	0.7	3	0.3	81	7.6	976	91.5	0	0.0	1067	100.0
Lismore Base	10	0.9	8	0.7	55	4.9	1045	93.5	0	0.0	1118	100.0
Tweed Heads	14	1.0	4	0.3	72	5.4	1250	93.2	1	0.1	1341	100.0
Port Macquarie Base	2	0.2	3	0.4	57	7.1	744	92.3	0	0.0	806	100.0
Dubbo Base	9	0.8	8	0.7	94	8.0	1060	90.5	0	0.0	1171	100.0
Wollongong	26	1.0	41	1.7	186	7.5	2227	89.8	0	0.0	2480	100.0
Maitland	7	0.5	1	0.1	97	6.3	1438	93.2	0	0.0	1543	100.0
Wagga Wagga Base	10	1.1	14	1.6	69	7.9	783	89.4	0	0.0	876	100.0
TOTAL	153	0.8	141	0.7	1150	6.1	17387	92.3	1	0.0	18832	100.0
Level 4												
Canterbury	14	0.8	4	0.2	58	3.4	1641	95.6	0	0.0	1717	100.0
Hornsby	5	0.4	2	0.2	50	4.3	1094	95.0	0	0.0	1151	100.0
Manly	3	0.3	1	0.1	37	3.8	925	95.8	0	0.0	966	100.0
Mona Vale	5	0.7	2	0.3	20	3.0	647	96.0	0	0.0	674	100.0
Sutherland	3	0.2	1	0.1	38	2.9	1249	96.7	0	0.0	1291	100.0
Auburn	8	0.6	4	0.3	34	2.6	1266	96.5	0	0.0	1312	100.0
Fairfield	3	0.2	3	0.2	74	4.4	1590	95.2	0	0.0	1670	100.0
Campbelltown	16	0.5	16	0.5	190	6.1	2881	92.8	0	0.0	3103	100.0
Bankstown-Lidcombe	8	0.4	2	0.1	73	3.3	2162	96.3	0	0.0	2245	100.0

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TABLE 48: (Continued)

Maternity service level–hospital	Gestational age											
	<32		32–33		34–36		37+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Hawkesbury	2	0.3	0	0.0	53	7.0	704	92.8	0	0.0	759	100.0
Grafton Base	5	1.2	5	1.2	23	5.6	379	92.0	0	0.0	412	100.0
Tamworth Base	12	1.1	8	0.8	69	6.6	953	91.3	2	0.2	1044	100.0
Manning Base	13	1.8	2	0.3	46	6.4	658	91.5	0	0.0	719	100.0
Orange Base	8	0.8	5	0.5	80	7.8	938	91.0	0	0.0	1031	100.0
Goulburn Base	3	1.0	1	0.3	15	4.8	291	93.9	0	0.0	310	100.0
Griffith Base	2	0.4	3	0.6	41	8.3	448	90.7	0	0.0	494	100.0
TOTAL	110	0.6	59	0.3	901	4.8	17826	94.3	2	0.0	18898	100.0
Level 3												
Blue Mountains	0	0.0	1	0.4	5	2.0	249	97.6	0	0.0	255	100.0
Kempsey	4	1.5	0	0.0	10	3.8	248	94.7	0	0.0	262	100.0
Armidale	4	0.9	4	0.9	37	8.7	380	89.4	0	0.0	425	100.0
Inverell	1	0.4	1	0.4	11	4.8	216	94.3	0	0.0	229	100.0
Mudgee	1	0.4	0	0.0	3	1.2	242	98.4	0	0.0	246	100.0
Bathurst Base	1	0.2	0	0.0	25	4.8	499	95.0	0	0.0	525	100.0
Lithgow	0	0.0	1	0.4	8	3.5	218	96.0	0	0.0	227	100.0
Bega	1	0.5	0	0.0	5	2.3	213	97.3	0	0.0	219	100.0
Moruya	1	0.3	2	0.7	14	4.6	288	94.4	0	0.0	305	100.0
Queanbeyan	0	0.0	0	0.0	10	2.4	405	97.6	0	0.0	415	100.0
Bowral	0	0.0	0	0.0	10	2.6	378	97.4	0	0.0	388	100.0
Shoalhaven	5	0.6	0	0.0	31	3.5	860	96.0	0	0.0	896	100.0
Muswellbrook	0	0.0	0	0.0	5	2.4	202	97.6	0	0.0	207	100.0
Broken Hill Base	0	0.0	2	0.9	6	2.7	212	96.4	0	0.0	220	100.0
Other hospitals	9	0.5	4	0.2	48	2.8	1675	96.5	0	0.0	1736	100.0
TOTAL	27	0.4	15	0.2	228	3.5	6285	95.9	0	0.0	6555	100.0
Level 2												
TOTAL	0	0.0	1	0.1	8	0.9	908	99.0	0	0.0	917	100.0
Private												
Mater, North Sydney	6	0.3	23	1.0	116	5.2	2104	93.6	0	0.0	2249	100.0
North Shore Private	16	0.7	15	0.6	138	5.6	2279	93.1	0	0.0	2448	100.0
Sydney Adventist	11	0.6	6	0.3	88	4.5	1864	94.7	0	0.0	1969	100.0
North Gosford Private	3	0.4	2	0.3	40	5.8	647	93.5	0	0.0	692	100.0
Hurstville Community	2	0.3	0	0.0	41	5.7	671	94.0	0	0.0	714	100.0
Kareena Private	1	0.1	6	0.8	57	7.3	721	91.8	0	0.0	785	100.0
St. George Private	8	0.5	4	0.3	108	6.8	1465	92.4	0	0.0	1585	100.0
Prince of Wales Private	3	0.1	4	0.2	116	5.0	2205	94.7	0	0.0	2328	100.0
Norwest Private	9	0.4	9	0.4	120	5.7	1962	93.4	0	0.0	2100	100.0
Sydney Southwest Private	1	0.1	0	0.0	35	3.6	944	96.3	0	0.0	980	100.0
Nepean Private	4	0.5	0	0.0	53	6.6	747	92.9	0	0.0	804	100.0
Westmead Private	8	0.4	8	0.4	118	5.3	2074	93.9	0	0.0	2208	100.0
Figtree Private	6	0.6	0	0.0	53	5.6	885	93.8	0	0.0	944	100.0
Newcastle Private	13	0.7	4	0.2	126	6.4	1835	92.8	0	0.0	1978	100.0
Calvary, Wagga Wagga	1	0.2	4	0.8	59	11.6	443	87.4	0	0.0	507	100.0
Other hospitals	0	0.0	0	0.0	0	0.0	46	100.0	0	0.0	46	100.0
TOTAL	92	0.4	85	0.4	1268	5.7	20892	93.5	0	0.0	22337	100.0
TOTAL NSW*	1423	1.5	826	0.9	5374	5.6	88764	92.1	4	0.0	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually. Maternity service levels are described on page 82 in Appendix 2: Explanatory notes.

* Total NSW includes births at home assisted by independent midwives and births at level 1 hospitals.

Neonatal resuscitation

Table 49 shows the type of neonatal resuscitation for local health districts, and Table 50 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2015.

TABLE 49: BIRTHS BY TYPE OF RESUSCITATION AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2015

Local Health District	Resuscitation of baby										TOTAL			
	None/Minimal		Suction		O2 Therapy		IPPR by mask [#]		Intubation and IPPR [#]				External cardiac massage and ventilation	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
Sydney	5503	82.7	203	3.1	226	3.4	634	9.5	67	1.0	21	0.3	6654	100.0
South Western Sydney	9733	89.0	204	1.9	316	2.9	610	5.6	26	0.2	42	0.4	10931	100.0
South Eastern Sydney	6254	79.2	478	6.0	209	2.6	829	10.5	84	1.1	47	0.6	7901	100.0
Illawarra Shoalhaven	2984	87.8	89	2.6	69	2.0	237	7.0	6	0.2	15	0.4	3400	100.0
Western Sydney	7866	78.6	935	9.3	173	1.7	852	8.5	140	1.4	43	0.4	10009	100.0
Nepean Blue Mountains	3935	75.5	402	7.7	299	5.7	512	9.8	43	0.8	19	0.4	5210	100.0
Northern Sydney	4553	81.4	259	4.6	149	2.7	565	10.1	47	0.8	17	0.3	5590	100.0
Central Coast	2408	81.6	152	5.1	59	2.0	310	10.5	10	0.3	13	0.4	2952	100.0
Hunter New England	7280	80.2	218	2.4	182	2.0	1320	14.5	25	0.3	53	0.6	9078	100.0
Northern NSW	2610	84.4	103	3.3	62	2.0	299	9.7	11	0.4	6	0.2	3091	100.0
Mid North Coast	1906	87.1	40	1.8	24	1.1	211	9.6	3	0.1	5	0.2	2189	100.0
Southern NSW	1212	86.0	27	1.9	13	0.9	149	10.6	4	0.3	5	0.4	1410	100.0
Murrumbidgee	1607	83.5	58	3.0	45	2.3	191	9.9	6	0.3	17	0.9	1924	100.0
Western NSW	2954	86.5	70	2.0	47	1.4	323	9.5	10	0.3	12	0.4	3416	100.0
Far West	181	82.3	7	3.2	3	1.4	28	12.7	0	0.0	1	0.5	220	100.0
Private Hospitals	20081	89.9	581	2.6	862	3.9	770	3.4	16	0.1	26	0.1	22336	100.0
TOTAL*	81135	84.2	3827	4.0	2745	2.8	7843	8.1	498	0.5	343	0.4	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

IPPR: Intermittent positive pressure respiration.

* Total includes births at home assisted by independent midwives.

TABLE 50: BIRTHS BY TYPE OF RESUSCITATION, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2015*

Maternity service level-hospital	Resuscitation of baby										TOTAL			
	None/Minimal		Suction		O2 Therapy		IPPR by mask [#]		Intubation and IPPR [#]				External cardiac massage and ventilation	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
Level 6														
Royal Prince Alfred	4040	81.8	132	2.7	131	2.7	554	11.2	61	1.2	19	0.4	4937	100.0
Royal North Shore	2128	79.6	164	6.1	42	1.6	292	10.9	44	1.6	5	0.2	2675	100.0
Royal Hospital for Women	2998	73.3	367	9.0	116	2.8	510	12.5	84	2.1	17	0.4	4092	100.0
Liverpool	2988	84.8	95	2.7	119	3.4	301	8.5	19	0.5	3	0.1	3525	100.0
Nepean	2899	73.0	350	8.8	221	5.6	445	11.2	39	1.0	15	0.4	3969	100.0
Westmead	4369	78.2	414	7.4	45	0.8	607	10.9	128	2.3	27	0.5	5590	100.0
John Hunter	3002	75.6	117	2.9	68	1.7	744	18.7	20	0.5	20	0.5	3971	100.0
TOTAL	22424	78.0	1639	5.7	742	2.6	3453	12.0	395	1.4	106	0.4	28759	100.0
Level 5														
Gosford	2274	81.0	148	5.3	59	2.1	302	10.8	10	0.4	13	0.5	2806	100.0
St. George	2113	83.9	75	3.0	73	2.9	231	9.2	0	0.0	25	1.0	2517	100.0
Blacktown	2314	74.5	472	15.2	100	3.2	201	6.5	8	0.3	12	0.4	3107	100.0
Coffs Harbour	965	90.4	21	2.0	9	0.8	70	6.6	2	0.2	0	0.0	1067	100.0
Lismore Base	943	84.3	30	2.7	29	2.6	111	9.9	3	0.3	2	0.2	1118	100.0
Tweed Heads	1110	82.8	64	4.8	27	2.0	133	9.9	6	0.4	1	0.1	1341	100.0
Port Macquarie Base	666	82.6	17	2.1	13	1.6	105	13.0	0	0.0	5	0.6	806	100.0
Dubbo Base	992	84.7	47	4.0	14	1.2	112	9.6	3	0.3	3	0.3	1171	100.0
Wollongong	2157	87.0	77	3.1	57	2.3	179	7.2	4	0.2	6	0.2	2480	100.0
Maitland	1333	86.4	20	1.3	24	1.6	154	10.0	2	0.1	10	0.6	1543	100.0
Wagga Wagga Base	699	79.8	39	4.5	5	0.6	119	13.6	5	0.6	9	1.0	876	100.0
TOTAL	15566	82.7	1010	5.4	410	2.2	1717	9.1	43	0.2	86	0.5	18832	100.0
Level 4														
Canterbury	1463	85.2	71	4.1	95	5.5	80	4.7	6	0.3	2	0.1	1717	100.0
Hornsby	918	79.8	47	4.1	67	5.8	115	10.0	2	0.2	2	0.2	1151	100.0
Manly	807	83.5	28	2.9	30	3.1	93	9.6	0	0.0	8	0.8	966	100.0
Mona Vale	589	87.4	20	3.0	8	1.2	54	8.0	1	0.1	2	0.3	674	100.0
Sutherland	1142	88.5	36	2.8	20	1.5	88	6.8	0	0.0	5	0.4	1291	100.0
Auburn	1183	90.2	49	3.7	28	2.1	44	3.4	4	0.3	4	0.3	1312	100.0

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TABLE 50: (Continued)

Maternity service level–hospital	Resuscitation of baby													
	None/Minimal		Suction		O2 Therapy		IPPR by mask [#]		Intubation and IPPR [#]		External cardiac massage and ventilation		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Fairfield	1498	89.7	46	2.8	64	3.8	49	2.9	4	0.2	9	0.5	1670	100.0
Campbelltown	2842	91.6	32	1.0	62	2.0	149	4.8	3	0.1	15	0.5	3103	100.0
Bankstown-Lidcombe	2072	92.3	28	1.2	44	2.0	87	3.9	0	0.0	14	0.6	2245	100.0
Hawkesbury	628	82.7	40	5.3	58	7.6	29	3.8	0	0.0	4	0.5	759	100.0
Grafton Base	359	87.1	9	2.2	2	0.5	37	9.0	2	0.5	3	0.7	412	100.0
Tamworth Base	799	76.5	39	3.7	14	1.3	183	17.5	1	0.1	8	0.8	1044	100.0
Manning Base	628	87.3	7	1.0	8	1.1	67	9.3	2	0.3	7	1.0	719	100.0
Orange Base	882	85.5	8	0.8	19	1.8	116	11.3	3	0.3	3	0.3	1031	100.0
Goulburn Base	250	80.6	16	5.2	6	1.9	35	11.3	2	0.6	1	0.3	310	100.0
Griffith Base	423	85.6	3	0.6	26	5.3	38	7.7	1	0.2	3	0.6	494	100.0
TOTAL	16483	87.2	479	2.5	551	2.9	1264	6.7	31	0.2	90	0.5	18898	100.0
Level 3														
Blue Mountains	223	87.5	11	4.3	10	3.9	11	4.3	0	0.0	0	0.0	255	100.0
Kempsey	222	84.7	2	0.8	2	0.8	35	13.4	1	0.4	0	0.0	262	100.0
Armidale	343	80.7	4	0.9	33	7.8	44	10.4	0	0.0	1	0.2	425	100.0
Inverell	138	60.3	21	9.2	28	12.2	42	18.3	0	0.0	0	0.0	229	100.0
Mudgee	229	93.1	2	0.8	2	0.8	12	4.9	0	0.0	1	0.4	246	100.0
Bathurst Base	454	86.5	13	2.5	4	0.8	49	9.3	1	0.2	4	0.8	525	100.0
Lithgow	185	81.5	1	0.4	10	4.4	27	11.9	4	1.8	0	0.0	227	100.0
Bega	193	88.1	1	0.5	1	0.5	22	10.0	0	0.0	2	0.9	219	100.0
Moruya	283	92.8	5	1.6	2	0.7	14	4.6	1	0.3	0	0.0	305	100.0
Queanbeyan	346	83.4	4	1.0	3	0.7	59	14.2	1	0.2	2	0.5	415	100.0
Bowral	333	85.8	3	0.8	27	7.0	24	6.2	0	0.0	1	0.3	388	100.0
Shoalhaven	803	89.6	12	1.3	12	1.3	58	6.5	2	0.2	9	1.0	896	100.0
Muswellbrook	193	93.2	1	0.5	0	0.0	13	6.3	0	0.0	0	0.0	207	100.0
Broken Hill Base	181	82.3	7	3.2	3	1.4	28	12.7	0	0.0	1	0.5	220	100.0
Other hospitals	1522	87.7	23	1.3	25	1.4	152	8.8	3	0.2	11	0.6	1736	100.0
TOTAL	5648	86.2	110	1.7	162	2.5	590	9.0	13	0.2	32	0.5	6555	100.0
Level 2														
TOTAL	853	93.0	7	0.8	9	1.0	46	5.0	0	0.0	2	0.2	917	100.0
Private														
Mater, North Sydney	2069	92.0	46	2.0	69	3.1	60	2.7	2	0.1	3	0.1	2249	100.0
North Shore Private	2137	87.3	163	6.7	90	3.7	54	2.2	4	0.2	0	0.0	2448	100.0
Sydney Adventist	1847	93.8	8	0.4	52	2.6	60	3.0	1	0.1	1	0.1	1969	100.0
North Gosford Private	601	86.8	22	3.2	41	5.9	26	3.8	1	0.1	1	0.1	692	100.0
Hurstville Community	621	87.0	36	5.0	40	5.6	17	2.4	0	0.0	0	0.0	714	100.0
Kareena Private	672	85.6	27	3.4	45	5.7	39	5.0	0	0.0	2	0.3	785	100.0
St. George Private	1181	74.5	79	5.0	268	16.9	53	3.3	2	0.1	2	0.1	1585	100.0
Prince of Wales Private	2172	93.3	25	1.1	30	1.3	99	4.3	1	0.0	1	0.0	2328	100.0
Norwest Private	1986	94.6	0	0.0	25	1.2	79	3.8	2	0.1	8	0.4	2100	100.0
Sydney Southwest Private	953	97.2	3	0.3	20	2.0	4	0.4	0	0.0	0	0.0	980	100.0
Nepean Private	752	93.5	6	0.7	31	3.9	13	1.6	0	0.0	2	0.2	804	100.0
Westmead Private	1963	88.9	79	3.6	90	4.1	73	3.3	1	0.0	2	0.1	2208	100.0
Figtree Private	818	86.7	59	6.3	52	5.5	15	1.6	0	0.0	0	0.0	944	100.0
Newcastle Private	1802	91.1	14	0.7	6	0.3	152	7.7	1	0.1	3	0.2	1978	100.0
Calvary, Wagga Wagga	464	91.5	13	2.6	2	0.4	26	5.1	1	0.2	1	0.2	507	100.0
Other hospitals	44	95.7	1	2.2	1	2.2	0	0.0	0	0.0	0	0.0	46	100.0
TOTAL	20082	89.9	581	2.6	862	3.9	770	3.4	16	0.1	26	0.1	22337	100.0
TOTAL NSW[†]	81135	84.2	3827	4.0	2745	2.8	7843	8.1	498	0.5	343	0.4	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

* Hospitals with more than 200 births are identified individually. Maternity service levels are described on page 82 in Appendix 2: Explanatory notes.

IPPR: intermittent positive pressure respiration.

† Total NSW includes births at home assisted by independent midwives and births at level 1 hospitals.

Admission to special care or neonatal intensive care

Table 51 shows admissions of live born babies to special care or neonatal intensive care for local health districts, and Table 52 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2015.

TABLE 51: LIVE BIRTHS BY ADMISSION TO SPECIAL CARE OR NEONATAL INTENSIVE CARE AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2015

Local Health District	Admission to special care or NICU							
	No		Yes		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%
Sydney	5750	87.2	843	12.8	0	0.0	6593	100.0
South Western Sydney	9762	90.0	1088	10.0	0	0.0	10850	100.0
South Eastern Sydney	6436	82.0	1413	18.0	0	0.0	7849	100.0
Illawarra Shoalhaven	2805	83.0	576	17.0	0	0.0	3381	100.0
Western Sydney	7900	79.6	2025	20.4	0	0.0	9925	100.0
Nepean Blue Mountains	4211	81.4	962	18.6	0	0.0	5173	100.0
Northern Sydney	4686	84.4	865	15.6	0	0.0	5551	100.0
Central Coast	2302	78.2	642	21.8	0	0.0	2944	100.0
Hunter New England	7454	82.9	1542	17.1	0	0.0	8996	100.0
Northern NSW	2404	78.4	662	21.6	0	0.0	3066	100.0
Mid North Coast	1792	82.3	386	17.7	0	0.0	2178	100.0
Southern NSW	1278	91.1	125	8.9	0	0.0	1403	100.0
Murrumbidgee	1546	80.9	365	19.1	0	0.0	1911	100.0
Western NSW	2824	83.3	566	16.7	1	0.0	3391	100.0
Far West	198	90.0	22	10.0	0	0.0	220	100.0
Private Hospitals	20710	93.1	1539	6.9	0	0.0	22249	100.0
TOTAL*	82133	85.8	13624	14.2	1	0.0	95758	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.
NICU: neonatal intensive care unit.

* Total includes births at home assisted by independent midwives.

TABLE 52: LIVE BIRTHS BY ADMISSION TO SPECIAL CARE OR NEONATAL INTENSIVE CARE, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2015*

Maternity service level-hospital	Admission to special care or NICU								
	No		Yes		Not stated		TOTAL		
	No.	%	No.	%	No.	%	No.	%	
Level 6	Royal Prince Alfred	4292	87.8	599	12.2	0	0.0	4891	100.0
	Royal North Shore	2284	86.2	365	13.8	0	0.0	2649	100.0
	Royal Hospital for Women	3369	83.1	686	16.9	0	0.0	4055	100.0
	Liverpool	3075	88.4	402	11.6	0	0.0	3477	100.0
	Nepean	3143	79.9	792	20.1	0	0.0	3935	100.0
	Westmead	4408	79.6	1132	20.4	0	0.0	5540	100.0
	John Hunter	3200	81.7	716	18.3	0	0.0	3916	100.0
	TOTAL	23771	83.5	4692	16.5	0	0.0	28463	100.0
Level 5	Gosford	2167	77.4	631	22.6	0	0.0	2798	100.0
	St. George	1979	79.0	526	21.0	0	0.0	2505	100.0
	Blacktown	2511	81.5	571	18.5	0	0.0	3082	100.0
	Coffs Harbour	855	80.6	206	19.4	0	0.0	1061	100.0
	Lismore Base	894	80.8	213	19.2	0	0.0	1107	100.0
	Tweed Heads	1006	75.6	324	24.4	0	0.0	1330	100.0
	Port Macquarie Base	648	80.7	155	19.3	0	0.0	803	100.0
	Dubbo Base	929	79.9	233	20.1	0	0.0	1162	100.0
	Wollongong	1990	80.7	476	19.3	0	0.0	2466	100.0
	Maitland	1308	85.3	225	14.7	0	0.0	1533	100.0
	Wagga Wagga Base	619	71.3	249	28.7	0	0.0	868	100.0
	TOTAL	14906	79.6	3809	20.4	0	0.0	18715	100.0
Level 4	Canterbury	1458	85.7	244	14.3	0	0.0	1702	100.0
	Hornsby	965	84.3	180	15.7	0	0.0	1145	100.0
	Manly	731	75.8	233	24.2	0	0.0	964	100.0
	Mona Vale	582	87.0	87	13.0	0	0.0	669	100.0
	Sutherland	1087	84.4	201	15.6	0	0.0	1288	100.0
	Auburn	981	75.3	322	24.7	0	0.0	1303	100.0
	Fairfield	1395	83.8	270	16.2	0	0.0	1665	100.0
	Campbelltown	2944	95.4	141	4.6	0	0.0	3085	100.0
	Bankstown-Lidcombe	1975	88.3	261	11.7	0	0.0	2236	100.0

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TABLE 52: (Continued)

Maternity service level–hospital	Admission to special care or NICU								
	No		Yes		Not stated		TOTAL		
	No.	%	No.	%	No.	%	No.	%	
Hawkesbury	614	81.1	143	18.9	0	0.0	757	100.0	
Grafton Base	291	71.1	118	28.9	0	0.0	409	100.0	
Tamworth Base	725	69.8	314	30.2	0	0.0	1039	100.0	
Manning Base	565	79.4	147	20.6	0	0.0	712	100.0	
Orange Base	805	79.1	213	20.9	0	0.0	1018	100.0	
Goulburn Base	257	83.4	51	16.6	0	0.0	308	100.0	
Griffith Base	397	80.9	94	19.1	0	0.0	491	100.0	
TOTAL	15772	83.9	3019	16.1	0	0.0	18791	100.0	
Level 3									
Blue Mountains	241	94.9	13	5.1	0	0.0	254	100.0	
Kempsey	240	92.3	20	7.7	0	0.0	260	100.0	
Armidale	340	80.4	83	19.6	0	0.0	423	100.0	
Inverell	215	94.3	13	5.7	0	0.0	228	100.0	
Mudgee	242	98.4	4	1.6	0	0.0	246	100.0	
Bathurst Base	431	82.1	94	17.9	0	0.0	525	100.0	
Lithgow	213	93.8	14	6.2	0	0.0	227	100.0	
Bega	200	91.3	19	8.7	0	0.0	219	100.0	
Moruya	277	91.4	26	8.6	0	0.0	303	100.0	
Queanbeyan	393	95.2	20	4.8	0	0.0	413	100.0	
Bowral	373	96.4	14	3.6	0	0.0	387	100.0	
Shoalhaven	791	88.8	100	11.2	0	0.0	891	100.0	
Muswellbrook	201	97.1	6	2.9	0	0.0	207	100.0	
Broken Hill Base	198	90.0	22	10.0	0	0.0	220	100.0	
Other hospitals	1648	95.4	80	4.6	0	0.0	1728	100.0	
TOTAL	6003	91.9	528	8.1	0	0.0	6531	100.0	
Level 2	TOTAL	885	96.5	32	3.5	0	0.0	917	100.0
Private									
Mater, North Sydney	1972	88.0	268	12.0	0	0.0	2240	100.0	
North Shore Private	2425	99.4	15	0.6	0	0.0	2440	100.0	
Sydney Adventist	1702	86.7	262	13.3	0	0.0	1964	100.0	
North Gosford Private	619	89.8	70	10.2	0	0.0	689	100.0	
Hurstville Community	629	88.3	83	11.7	0	0.0	712	100.0	
Kareena Private	781	99.5	4	0.5	0	0.0	785	100.0	
St. George Private	1576	99.7	4	0.3	0	0.0	1580	100.0	
Prince of Wales Private	2172	93.5	151	6.5	0	0.0	2323	100.0	
Norwest Private	1904	91.1	185	8.9	0	0.0	2089	100.0	
Sydney Southwest Private	893	91.3	85	8.7	0	0.0	978	100.0	
Nepean Private	666	83.3	134	16.8	0	0.0	800	100.0	
Westmead Private	2191	99.9	3	0.1	0	0.0	2194	100.0	
Figtree Private	935	99.9	1	0.1	0	0.0	936	100.0	
Newcastle Private	1816	92.3	152	7.7	0	0.0	1968	100.0	
Calvary, Wagga Wagga	384	75.9	122	24.1	0	0.0	506	100.0	
Other hospitals	46	100.0	0	0.0	0	0.0	46	100.0	
TOTAL	20711	93.1	1539	6.9	0	0.0	22250	100.0	
TOTAL NSW*	82133	85.8	13624	14.2	1	0.0	95758	100.0	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

NICU: neonatal intensive care unit.

Hospitals with more than 200 births in 2015 are identified individually. Maternity service levels are described on page 82 in Appendix 2: Explanatory notes.

* Total NSW includes births at home assisted by independent midwives and births at level 1 hospitals.

Infant feeding

Table 53 shows infant feeding at discharge from the hospital of birth for local health districts, and Table 54 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2015.

TABLE 53: LIVE BIRTHS BY TYPE OF INFANT FEEDING AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2015

Local Health District	Infant feeding									
	Full breastfeeding		Any breastfeeding		Infant formula only		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	5246	79.6	1016	15.4	284	4.3	47	0.7	6593	100.0
South Western Sydney	6927	63.8	2210	20.4	1577	14.5	136	1.3	10850	100.0
South Eastern Sydney	6616	84.3	773	9.8	405	5.2	55	0.7	7849	100.0
Illawarra Shoalhaven	2683	79.4	183	5.4	472	14.0	43	1.3	3381	100.0
Western Sydney	7576	76.3	1309	13.2	924	9.3	116	1.2	9925	100.0
Nepean Blue Mountains	3749	72.5	469	9.1	913	17.6	42	0.8	5173	100.0
Northern Sydney	4910	88.5	422	7.6	176	3.2	43	0.8	5551	100.0
Central Coast	2437	82.8	178	6.0	304	10.3	25	0.8	2944	100.0
Hunter New England	7129	79.2	510	5.7	1244	13.8	113	1.3	8996	100.0
Northern NSW	2762	90.1	97	3.2	165	5.4	42	1.4	3066	100.0
Mid North Coast	1865	85.6	109	5.0	179	8.2	25	1.1	2178	100.0
Southern NSW	1186	84.5	59	4.2	131	9.3	27	1.9	1403	100.0
Murrumbidgee	1406	73.6	117	6.1	359	18.8	29	1.5	1911	100.0
Western NSW	2651	78.2	171	5.0	527	15.5	42	1.2	3391	100.0
Far West	172	78.2	6	2.7	37	16.8	5	2.3	220	100.0
Private Hospitals	18175	81.7	2415	10.9	1573	7.1	86	0.4	22249	100.0
TOTAL*	75562	78.9	10047	10.5	9270	9.7	879	0.9	95758	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

* Total includes births at home assisted by independent midwives.

TABLE 54: LIVE BIRTHS BY TYPE OF INFANT FEEDING, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2015[#]

Maternity service level-hospital	Infant feeding									
	Full breastfeeding		Any breastfeeding		Infant formula only		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Level 6										
Royal Prince Alfred	3874	79.2	782	16.0	202	4.1	33	0.7	4891	100.0
Royal North Shore	2320	87.6	220	8.3	92	3.5	17	0.6	2649	100.0
Royal Hospital for Women	3449	85.1	410	10.1	162	4.0	34	0.8	4055	100.0
Liverpool	2188	62.9	717	20.6	487	14.0	85	2.4	3477	100.0
Nepean	2779	70.6	409	10.4	719	18.3	28	0.7	3935	100.0
Westmead	4278	77.2	678	12.2	520	9.4	64	1.2	5540	100.0
John Hunter	3033	77.5	254	6.5	584	14.9	45	1.1	3916	100.0
TOTAL	21921	77.0	3470	12.2	2766	9.7	306	1.1	28463	100.0
Level 5										
Gosford	2303	82.3	175	6.3	297	10.6	23	0.8	2798	100.0
St. George	2026	80.9	294	11.7	172	6.9	13	0.5	2505	100.0
Blacktown	2425	78.7	291	9.4	324	10.5	42	1.4	3082	100.0
Coffs Harbour	915	86.2	62	5.8	68	6.4	16	1.5	1061	100.0
Lismore Base	1004	90.7	36	3.3	53	4.8	14	1.3	1107	100.0
Tweed Heads	1211	91.1	52	3.9	55	4.1	12	0.9	1330	100.0
Port Macquarie Base	690	85.9	41	5.1	70	8.7	2	0.2	803	100.0
Dubbo Base	876	75.4	42	3.6	235	20.2	9	0.8	1162	100.0
Wollongong	1902	77.1	154	6.2	379	15.4	31	1.3	2466	100.0
Maitland	1217	79.4	56	3.7	250	16.3	10	0.7	1533	100.0
Wagga Wagga Base	628	72.4	54	6.2	168	19.4	18	2.1	868	100.0
TOTAL	15197	81.2	1257	6.7	2071	11.1	190	1.0	18715	100.0
Level 4										
Canterbury	1372	80.6	234	13.7	82	4.8	14	0.8	1702	100.0
Hornsby	1003	87.6	94	8.2	37	3.2	11	1.0	1145	100.0
Manly	853	88.5	70	7.3	32	3.3	9	0.9	964	100.0
Mona Vale	612	91.5	37	5.5	15	2.2	5	0.7	669	100.0
Sutherland	1140	88.5	69	5.4	71	5.5	8	0.6	1288	100.0
Auburn	873	67.0	340	26.1	80	6.1	10	0.8	1303	100.0
Fairfield	809	48.6	593	35.6	250	15.0	13	0.8	1665	100.0
Campbelltown	2146	69.6	367	11.9	560	18.2	12	0.4	3085	100.0
Bankstown-Lidcombe	1459	65.3	510	22.8	244	10.9	23	1.0	2236	100.0
Hawkesbury	590	77.9	41	5.4	121	16.0	5	0.7	757	100.0

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TABLE 54: (Continued)

Maternity service level–hospital	Infant feeding									
	Full breast-feeding		Any breast-feeding		Infant formula only		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Grafton Base	332	81.2	8	2.0	54	13.2	15	3.7	409	100.0
Tamworth Base	817	78.6	74	7.1	127	12.2	21	2.0	1039	100.0
Manning Base	572	80.3	41	5.8	89	12.5	10	1.4	712	100.0
Orange Base	774	76.0	93	9.1	136	13.4	15	1.5	1018	100.0
Goulburn Base	237	76.9	12	3.9	54	17.5	5	1.6	308	100.0
Griffith Base	336	68.4	44	9.0	104	21.2	7	1.4	491	100.0
TOTAL	13925	74.1	2627	14.0	2056	10.9	183	1.0	18791	100.0
Level 3										
Blue Mountains	219	86.2	9	3.5	22	8.7	4	1.6	254	100.0
Kempsey	209	80.4	4	1.5	41	15.8	6	2.3	260	100.0
Armidale	354	83.7	19	4.5	42	9.9	8	1.9	423	100.0
Inverell	167	73.2	28	12.3	30	13.2	3	1.3	228	100.0
Mudgee	222	90.2	5	2.0	17	6.9	2	0.8	246	100.0
Bathurst Base	428	81.5	16	3.0	75	14.3	6	1.1	525	100.0
Lithgow	161	70.9	10	4.4	51	22.5	5	2.2	227	100.0
Bega	189	86.3	12	5.5	15	6.8	3	1.4	219	100.0
Moruya	263	86.8	4	1.3	30	9.9	6	2.0	303	100.0
Queanbeyan	362	87.7	19	4.6	21	5.1	11	2.7	413	100.0
Bowral	325	84.0	23	5.9	36	9.3	3	0.8	387	100.0
Shoalhaven	759	85.2	29	3.3	91	10.2	12	1.3	891	100.0
Muswellbrook	180	87.0	1	0.5	24	11.6	2	1.0	207	100.0
Broken Hill Base	172	78.2	6	2.7	37	16.8	5	2.3	220	100.0
Other hospitals	1397	80.8	76	4.4	231	13.4	24	1.4	1728	100.0
TOTAL	5407	82.8	261	4.0	763	11.7	100	1.5	6531	100.0
Level 2										
TOTAL	857	93.5	14	1.5	39	4.3	7	0.8	917	100.0
Private										
Mater, North Sydney	1641	73.3	511	22.8	83	3.7	5	0.2	2240	100.0
North Shore Private	1777	72.8	540	22.1	109	4.5	14	0.6	2440	100.0
Sydney Adventist	1874	95.4	21	1.1	62	3.2	7	0.4	1964	100.0
North Gosford Private	601	87.2	52	7.5	34	4.9	2	0.3	689	100.0
Hurstville Community	503	70.6	139	19.5	67	9.4	3	0.4	712	100.0
Kareena Private	642	81.8	76	9.7	63	8.0	4	0.5	785	100.0
St. George Private	960	60.8	478	30.3	130	8.2	12	0.8	1580	100.0
Prince of Wales Private	2241	96.5	0	0.0	81	3.5	1	0.0	2323	100.0
Norwest Private	1892	90.6	0	0.0	195	9.3	2	0.1	2089	100.0
Sydney Southwest Private	860	87.9	0	0.0	118	12.1	0	0.0	978	100.0
Nepean Private	703	87.9	0	0.0	95	11.9	2	0.3	800	100.0
Westmead Private	1471	67.0	526	24.0	192	8.8	5	0.2	2194	100.0
Figtree Private	691	73.8	70	7.5	166	17.7	9	1.0	936	100.0
Newcastle Private	1818	92.4	0	0.0	143	7.3	7	0.4	1968	100.0
Calvary, Wagga Wagga	458	90.5	1	0.2	34	6.7	13	2.6	506	100.0
Other hospitals	44	95.7	1	2.2	1	2.2	0	0.0	46	100.0
TOTAL	18176	81.7	2415	10.9	1573	7.1	86	0.4	22250	100.0
TOTAL NSW*	75562	78.9	10047	10.5	9270	9.7	879	0.9	95758	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually. Maternity service levels are described on page 82 in Appendix 2: Explanatory notes.

* Total NSW includes births at home assisted by independent midwives and births at level 1 hospitals.

Baby discharge status

Table 55 shows the discharge status of babies for local health districts, and Table 56 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2015.

TABLE 55: BABY DISCHARGE STATUS BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2015

Local Health District	Baby discharge status													
	Discharged		Transferred		Stillborn		Died		Transferred and died		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	6429	96.6	147	2.2	55	0.8	17	0.3	0	0.0	6	0.1	6654	100.0
South Western Sydney	10503	96.1	318	2.9	79	0.7	29	0.3	0	0.0	2	0.0	10931	100.0
South Eastern Sydney	7670	97.1	155	2.0	51	0.6	24	0.3	0	0.0	1	0.0	7901	100.0
Illawarra Shoalhaven	3294	96.9	83	2.4	19	0.6	4	0.1	0	0.0	0	0.0	3400	100.0
Western Sydney	9510	95.0	389	3.9	79	0.8	26	0.3	0	0.0	5	0.0	10009	100.0
Nepean Blue Mountains	4980	95.6	178	3.4	33	0.6	15	0.3	0	0.0	4	0.1	5210	100.0
Northern Sydney	5401	96.6	144	2.6	39	0.7	6	0.1	0	0.0	0	0.0	5590	100.0
Central Coast	2880	97.6	60	2.0	8	0.3	4	0.1	0	0.0	0	0.0	2952	100.0
Hunter New England	8479	93.4	475	5.2	79	0.9	42	0.5	0	0.0	3	0.0	9078	100.0
Northern NSW	2924	94.6	142	4.6	25	0.8	0	0.0	0	0.0	0	0.0	3091	100.0
Mid North Coast	2070	94.6	105	4.8	11	0.5	3	0.1	0	0.0	0	0.0	2189	100.0
Southern NSW	1355	96.1	48	3.4	7	0.5	0	0.0	0	0.0	0	0.0	1410	100.0
Murrumbidgee	1788	92.9	121	6.3	13	0.7	2	0.1	0	0.0	0	0.0	1924	100.0
Western NSW	3115	91.2	274	8.0	16	0.5	2	0.1	0	0.0	9	0.3	3416	100.0
Far West	214	97.3	6	2.7	0	0.0	0	0.0	0	0.0	0	0.0	220	100.0
Private Hospitals	22014	98.6	214	1.0	87	0.4	20	0.1	1	0.0	0	0.0	22336	100.0
TOTAL*	92704	96.2	2859	3.0	602	0.6	194	0.2	1	0.0	31	0.0	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

* Total includes births at home assisted by independent midwives.

TABLE 56: BABY DISCHARGE STATUS BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2015*

Maternity service level-hospital	Baby discharge status													
	Discharged		Transferred		Stillborn		Died		Transferred and died		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Level 6														
Royal Prince Alfred	4747	96.2	128	2.6	40	0.8	16	0.3	0	0.0	6	0.1	4937	100.0
Royal North Shore	2541	95.0	102	3.8	26	1.0	6	0.2	0	0.0	0	0.0	2675	100.0
Royal Hospital for Women	3922	95.8	114	2.8	37	0.9	19	0.5	0	0.0	0	0.0	4092	100.0
Liverpool	3229	91.6	223	6.3	46	1.3	25	0.7	0	0.0	2	0.1	3525	100.0
Nepean	3762	94.8	159	4.0	30	0.8	14	0.4	0	0.0	4	0.1	3969	100.0
Westmead	5193	92.9	330	5.9	46	0.8	17	0.3	0	0.0	4	0.1	5590	100.0
John Hunter	3650	91.9	233	5.9	52	1.3	33	0.8	0	0.0	3	0.1	3971	100.0
TOTAL	27044	94.0	1289	4.5	277	1.0	130	0.5	0	0.0	19	0.1	28759	100.0
Level 5														
Gosford	2748	97.9	46	1.6	8	0.3	4	0.1	0	0.0	0	0.0	2806	100.0
St. George	2471	98.2	31	1.2	12	0.5	3	0.1	0	0.0	0	0.0	2517	100.0
Blacktown	3033	97.6	42	1.4	25	0.8	7	0.2	0	0.0	0	0.0	3107	100.0
Coffs Harbour	1003	94.0	57	5.3	6	0.6	1	0.1	0	0.0	0	0.0	1067	100.0
Lismore Base	1088	97.3	19	1.7	11	1.0	0	0.0	0	0.0	0	0.0	1118	100.0
Tweed Heads	1235	92.1	95	7.1	11	0.8	0	0.0	0	0.0	0	0.0	1341	100.0
Port Macquarie Base	780	96.8	22	2.7	3	0.4	1	0.1	0	0.0	0	0.0	806	100.0
Dubbo Base	993	84.8	168	14.3	9	0.8	1	0.1	0	0.0	0	0.0	1171	100.0
Wollongong	2403	96.9	59	2.4	14	0.6	4	0.2	0	0.0	0	0.0	2480	100.0
Maitland	1433	92.9	100	6.5	10	0.6	0	0.0	0	0.0	0	0.0	1543	100.0
Wagga Wagga Base	791	90.3	76	8.7	8	0.9	1	0.1	0	0.0	0	0.0	876	100.0
TOTAL	17978	95.5	715	3.8	117	0.6	22	0.1	0	0.0	0	0.0	18832	100.0
Level 4														
Canterbury	1682	98.0	19	1.1	15	0.9	1	0.1	0	0.0	0	0.0	1717	100.0
Hornsby	1133	98.4	12	1.0	6	0.5	0	0.0	0	0.0	0	0.0	1151	100.0
Manly	947	98.0	17	1.8	2	0.2	0	0.0	0	0.0	0	0.0	966	100.0
Mona Vale	663	98.4	6	0.9	5	0.7	0	0.0	0	0.0	0	0.0	674	100.0
Sutherland	1276	98.8	10	0.8	2	0.2	2	0.2	0	0.0	1	0.1	1291	100.0
Auburn	1284	97.9	17	1.3	8	0.6	2	0.2	0	0.0	1	0.1	1312	100.0
Fairfield	1643	98.4	22	1.3	5	0.3	0	0.0	0	0.0	0	0.0	1670	100.0
Campbelltown	3047	98.2	36	1.2	18	0.6	2	0.1	0	0.0	0	0.0	3103	100.0
Bankstown-Lidcombe	2204	98.2	30	1.3	9	0.4	2	0.1	0	0.0	0	0.0	2245	100.0
Hawkesbury	751	98.9	5	0.7	2	0.3	1	0.1	0	0.0	0	0.0	759	100.0

(Continued on next page)

TABLE 56: (Continued)

Maternity service level–hospital	Baby discharge status													
	Discharged		Transferred		Stillborn		Died		Transferred and died		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Grafton Base	394	95.6	15	3.6	3	0.7	0	0.0	0	0.0	0	0.0	412	100.0
Tamworth Base	971	93.0	65	6.2	5	0.5	3	0.3	0	0.0	0	0.0	1044	100.0
Manning Base	699	97.2	9	1.3	7	1.0	4	0.6	0	0.0	0	0.0	719	100.0
Orange Base	956	92.7	61	5.9	4	0.4	1	0.1	0	0.0	9	0.9	1031	100.0
Goulburn Base	300	96.8	8	2.6	2	0.6	0	0.0	0	0.0	0	0.0	310	100.0
Griffith Base	467	94.5	23	4.7	3	0.6	1	0.2	0	0.0	0	0.0	494	100.0
TOTAL	18417	97.5	355	1.9	96	0.5	19	0.1	0	0.0	11	0.1	18898	100.0
Level 3														
Blue Mountains	248	97.3	6	2.4	1	0.4	0	0.0	0	0.0	0	0.0	255	100.0
Kempsey	242	92.4	17	6.5	2	0.8	1	0.4	0	0.0	0	0.0	262	100.0
Armidale	408	96.0	13	3.1	2	0.5	2	0.5	0	0.0	0	0.0	425	100.0
Inverell	225	98.3	3	1.3	1	0.4	0	0.0	0	0.0	0	0.0	229	100.0
Mudgee	243	98.8	3	1.2	0	0.0	0	0.0	0	0.0	0	0.0	246	100.0
Bathurst Base	515	98.1	10	1.9	0	0.0	0	0.0	0	0.0	0	0.0	525	100.0
Lithgow	219	96.5	8	3.5	0	0.0	0	0.0	0	0.0	0	0.0	227	100.0
Bega	214	97.7	5	2.3	0	0.0	0	0.0	0	0.0	0	0.0	219	100.0
Moruya	286	93.8	17	5.6	2	0.7	0	0.0	0	0.0	0	0.0	305	100.0
Queanbeyan	397	95.7	16	3.9	2	0.5	0	0.0	0	0.0	0	0.0	415	100.0
Bowral	380	97.9	7	1.8	1	0.3	0	0.0	0	0.0	0	0.0	388	100.0
Shoalhaven	867	96.8	24	2.7	5	0.6	0	0.0	0	0.0	0	0.0	896	100.0
Muswellbrook	190	91.8	17	8.2	0	0.0	0	0.0	0	0.0	0	0.0	207	100.0
Broken Hill Base	214	97.3	6	2.7	0	0.0	0	0.0	0	0.0	0	0.0	220	100.0
Other hospitals	1661	95.7	67	3.9	8	0.5	0	0.0	0	0.0	0	0.0	1736	100.0
TOTAL	6309	96.2	219	3.3	24	0.4	3	0.0	0	0.0	0	0.0	6555	100.0
Level 2														
TOTAL	860	93.8	57	6.2	0	0.0	0	0.0	0	0.0	0	0.0	917	100.0
Private														
Mater, North Sydney	2227	99.0	12	0.5	9	0.4	1	0.0	0	0.0	0	0.0	2249	100.0
North Shore Private	2418	98.8	17	0.7	8	0.3	5	0.2	0	0.0	0	0.0	2448	100.0
Sydney Adventist	1951	99.1	11	0.6	5	0.3	2	0.1	0	0.0	0	0.0	1969	100.0
North Gosford Private	682	98.6	7	1.0	3	0.4	0	0.0	0	0.0	0	0.0	692	100.0
Hurstville Community	706	98.9	5	0.7	2	0.3	1	0.1	0	0.0	0	0.0	714	100.0
Kareena Private	778	99.1	7	0.9	0	0.0	0	0.0	0	0.0	0	0.0	785	100.0
St. George Private	1565	98.7	14	0.9	5	0.3	1	0.1	0	0.0	0	0.0	1585	100.0
Prince of Wales Private	2310	99.2	13	0.6	5	0.2	0	0.0	0	0.0	0	0.0	2328	100.0
Norwest Private	2072	98.7	16	0.8	11	0.5	1	0.0	0	0.0	0	0.0	2100	100.0
Sydney Southwest Private	967	98.7	11	1.1	2	0.2	0	0.0	0	0.0	0	0.0	980	100.0
Nepean Private	784	97.5	15	1.9	4	0.5	1	0.1	0	0.0	0	0.0	804	100.0
Westmead Private	2185	99.0	8	0.4	14	0.6	1	0.0	0	0.0	0	0.0	2208	100.0
Figtree Private	922	97.7	12	1.3	8	0.8	1	0.1	1	0.1	0	0.0	944	100.0
Newcastle Private	1908	96.5	54	2.7	10	0.5	6	0.3	0	0.0	0	0.0	1978	100.0
Calvary, Wagga Wagga	494	97.4	12	2.4	1	0.2	0	0.0	0	0.0	0	0.0	507	100.0
Other hospitals	46	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	46	100.0
TOTAL	22015	98.6	214	1.0	87	0.4	20	0.1	1	0.0	0	0.0	22337	100.0
TOTAL NSW*	92704	96.2	2859	3.0	602	0.6	194	0.2	1	0.0	31	0.0	96391	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually. Maternity service levels are described on page 82 in Appendix 2: Explanatory notes.

* Total NSW includes births at home assisted by independent midwives and births at level 1 hospitals.

Postnatal length of stay

Table 57 shows the mother's postnatal length of stay in the hospital of birth for hospitals where at least 200 mothers gave birth in 2015.

TABLE 57: AVERAGE MATERNAL POSTNATAL LENGTH OF STAY IN HOSPITAL OF BIRTH, NSW 2011–2015[#]

Local Health District–Hospital		Average postnatal length of stay (days)				
		2011	2012	2013	2014	2015
Sydney	Canterbury	2.7	2.8	2.6	2.6	2.7
	Royal Prince Alfred	3.3	3.2	3.1	3.1	3.1
	TOTAL	3.2	3.1	3.0	3.0	3.0
South Western Sydney	Fairfield	2.3	2.3	2.3	2.3	2.5
	Liverpool	2.8	2.9	2.9	2.9	2.7
	Campbelltown	2.4	2.3	2.3	2.3	2.3
	Bankstown-Lidcombe	2.4	2.4	2.6	2.4	2.4
	Bowral	2.7	2.7	2.8	2.8	2.8
TOTAL	2.5	2.5	2.6	2.5	2.5	
South Eastern Sydney	St. George	2.8	2.8	2.8	2.5	2.4
	Sutherland	2.6	2.7	2.6	2.6	2.2
	Royal Hospital for Women	3.3	3.1	3.0	2.9	2.9
	Other hospitals	0.0	0.0	4.0	0.0	4.0
TOTAL	3.0	2.9	2.9	2.7	2.7	
Illawarra Shoalhaven	Shoalhaven	2.7	2.6	2.2	2.0	2.2
	Wollongong	2.5	2.5	2.5	2.5	2.4
	Other hospitals	2.3	2.3	2.2	1.7	1.7
	TOTAL	2.6	2.5	2.4	2.3	2.3
Western Sydney	Auburn	1.8	1.8	1.9	1.9	1.9
	Blacktown	2.6	2.4	2.2	2.2	2.2
	Westmead	2.3	2.2	2.1	2.0	2.1
	TOTAL	2.3	2.2	2.1	2.0	2.1
Nepean Blue Mountains	Blue Mountains	2.7	2.6	2.2	2.0	2.2
	Nepean	2.2	2.0	2.0	2.0	2.2
	Hawkesbury	3.0	3.1	3.0	3.0	3.0
	Lithgow	3.4	2.7	3.0	2.8	2.8
	TOTAL	2.4	2.2	2.2	2.2	2.3
Northern Sydney	Hornsby	2.3	2.2	2.0	2.0	2.0
	Manly	2.3	2.3	2.4	2.2	2.4
	Mona Vale	0.0	2.4	2.5	2.5	2.4
	Royal North Shore	2.7	2.7	2.8	2.7	2.9
	Other hospitals	0.1	0.1	0.1	0.2	0.1
	TOTAL	2.5	2.4	2.5	2.4	2.5
Central Coast	Gosford	2.1	2.1	2.2	2.1	2.1
	Other hospitals	0.1	0.9	0.4	0.2	0.1
	TOTAL	2.0	2.1	2.1	2.0	2.0
Hunter New England	Armidale	3.2	3.0	2.4	2.4	2.4
	Inverell	3.1	2.9	2.8	3.3	2.8
	Tamworth Base	2.9	2.7	2.7	2.3	2.5
	Manning Base	2.9	3.0	2.7	2.6	2.7
	Maitland	2.4	2.4	2.1	2.2	2.0
	Muswellbrook	2.4	2.3	2.5	2.3	2.6
	John Hunter	2.7	2.6	2.6	2.5	2.4
	Other hospitals	2.5	2.5	2.3	2.3	2.3
	TOTAL	2.7	2.6	2.5	2.4	2.4
	Northern NSW	Grafton Base	3.2	3.4	3.1	3.3
Lismore Base		3.0	2.8	2.8	2.6	2.3
Tweed Heads		2.3	2.4	2.6	2.6	2.5
Other hospitals		2.2	2.1	2.8	3.2	1.8
TOTAL		2.6	2.6	2.7	2.7	2.5

Local Health District–Hospital		Average postnatal length of stay (days)				
		2011	2012	2013	2014	2015
Mid North Coast	Coffs Harbour	3.2	3.1	2.8	2.5	2.6
	Kempsey	2.8	3.0	2.6	2.5	2.3
	Port Macquarie Base	3.6	3.5	2.8	2.6	2.6
	Other hospitals	2.6	2.8	2.7	2.6	2.0
	TOTAL	3.2	3.2	2.8	2.6	2.6
Southern NSW	Bega	2.3	2.4	2.1	2.3	2.4
	Goulburn Base	3.3	3.0	2.8	2.6	2.5
	Moruya	2.5	2.4	2.4	2.2	2.2
	Queanbeyan	2.7	2.8	2.7	2.8	2.8
	Other hospitals	3.4	3.3	3.3	3.3	3.6
	TOTAL	2.8	2.7	2.6	2.6	2.6
Murrumbidgee	Griffith Base	2.9	2.9	2.8	2.9	2.8
	Wagga Wagga Base	2.3	2.6	2.6	2.5	2.5
	Other hospitals	3.1	3.1	3.0	3.0	2.7
	TOTAL	2.8	2.8	2.8	2.8	2.6
Western NSW	Dubbo Base	2.4	2.5	2.5	2.2	2.2
	Mudgee	2.8	2.8	3.0	2.8	2.5
	Bathurst Base	2.7	2.9	2.6	2.5	2.7
	Orange Base	2.5	2.6	2.5	2.5	2.3
	Other hospitals	2.7	2.8	2.9	2.6	2.6
	TOTAL	2.5	2.7	2.6	2.4	2.4
	Far West	Broken Hill Base	2.9	3.0	2.5	2.8
TOTAL		2.9	3.0	2.5	2.8	2.3
Private Hospitals	Mater, North Sydney	4.4	4.4	4.6	4.7	4.4
	North Shore Private	4.5	4.5	4.5	4.5	4.5
	Sydney Adventist	4.7	4.7	4.6	4.7	4.7
	North Gosford Private	5.0	4.4	4.8	4.9	4.3
	Hurstville Community	4.1	4.4	4.3	4.4	4.2
	Kareena Private	4.4	4.5	4.3	4.4	4.4
	St. George Private	4.3	4.4	4.4	4.4	4.4
	Prince of Wales Private	4.4	4.5	4.6	4.6	4.5
	Norwest Private	4.3	4.3	4.4	4.5	4.3
	Sydney Southwest Private	4.4	4.4	4.4	4.2	4.0
	Nepean Private	4.7	4.6	4.5	4.3	4.1
	Westmead Private	4.3	4.3	4.3	4.3	4.3
	Figtree Private	5.2	5.3	5.2	5.2	5.2
	Newcastle Private	4.1	4.1	4.3	4.3	4.2
	Calvary, Wagga Wagga	4.1	5.0	4.5	4.8	4.6
	Other hospitals	4.5	4.4	4.5	4.3	4.6
TOTAL	4.4	4.5	4.5	4.5	4.4	
TOTAL NSW*	3.1	3.1	3.0	3.0	2.9	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
[#] Hospitals with more than 200 births in 2015 are identified individually.
^{*} Total NSW includes births at home assisted by independent midwives.

7. CLINICAL INDICATORS FOR OBSTETRICS

Selected clinical indicators for obstetrics are reported in this section. The definitions of the clinical indicators follow those described in Version 7.2 of the Australian Council on Healthcare Standards Clinical Indicator User's Manual for data collected in 2014.¹

Outcome of selected primipara

Indicator 1.1

Definition: The total number of selected primipara who have a spontaneous vaginal birth as a percentage of the total number of selected primipara who give birth.

A selected primipara is defined as a woman who is 20–34 years of age at the time of giving birth; giving birth for the first time at 20 weeks or greater gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 40⁶ weeks gestation. Spontaneous vaginal birth is defined as a vaginal birth (regardless of onset of labour) that is not assisted by forceps or vacuum and not a vaginal breech delivery.

Table 58 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 58: 1.1 SELECTED PRIMIPARA WHO HAVE A SPONTANEOUS VAGINAL BIRTH BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015^a

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	55.2	52.6	54.4	51.7	49.7
	Royal Prince Alfred	51.3	54.1	52.9	52.4	52.2
	TOTAL	52.1	53.8	53.3	52.2	51.5
South Western Sydney	Fairfield	77.5	79.2	79.9	76.4	69.6
	Liverpool	66.1	62.7	63.2	58.8	59.9
	Campbelltown	65.8	65.4	65.7	62.1	61.5
	Bankstown-Lidcombe	66.8	61.9	64.0	64.4	59.6
	Bowral	55.0	57.7	57.1	45.3	48.4
TOTAL	67.8	66.3	66.7	63.2	61.3	
South Eastern Sydney	St. George	52.7	53.0	52.6	50.7	46.3
	Sutherland	64.4	58.8	57.9	57.9	52.9
	Royal Hospital for Women	47.0	53.0	50.5	48.7	47.4
	Other hospitals	0.0	0.0	0.0	0.0	100.0
TOTAL	51.7	53.9	52.5	50.9	48.0	
Illawarra Shoalhaven	Shoalhaven	46.8	57.7	52.6	57.8	49.1
	Wollongong	59.7	61.9	52.0	50.6	52.2
	Other hospitals	53.3	50.0	50.0	88.2	100.0
TOTAL	56.3	60.3	52.1	53.2	51.5	
Western Sydney	Auburn	64.7	71.2	64.2	66.0	61.7
	Blacktown	43.8	48.2	48.3	48.9	50.8
	Westmead	52.3	51.8	50.0	52.6	52.4
	TOTAL	52.0	53.8	51.6	53.5	53.3
Nepean Blue Mountains	Blue Mountains	45.3	73.7	46.7	75.8	52.9
	Nepean	44.2	45.3	44.9	45.7	43.1
	Hawkesbury	45.7	43.5	43.4	44.2	43.4
	Lithgow	52.2	65.9	61.0	55.3	55.6
TOTAL	44.8	47.1	45.5	47.3	44.3	
Northern Sydney	Hornsby	52.7	58.9	61.5	59.7	54.2
	Manly	52.0	51.9	53.2	48.9	48.9
	Mona Vale	0.0	43.4	43.4	53.4	59.9
	Royal North Shore	46.1	50.7	45.7	49.3	52.9
	Other hospitals	100.0	100.0	100.0	97.3	100.0
TOTAL	50.1	53.7	50.9	52.6	54.2	
Central Coast	Gosford	37.5	44.6	44.0	44.1	51.2
	Other hospitals	100.0	100.0	100.0	100.0	100.0
	TOTAL	40.2	47.4	47.6	46.1	53.1

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Hunter New England	Armidale	49.1	57.4	62.6	39.2	44.6
	Inverell	36.5	46.7	35.6	46.9	43.3
	Tamworth Base	57.3	56.9	50.8	57.1	50.8
	Manning Base	53.6	56.4	56.6	54.8	48.4
	Maitland	45.5	56.2	56.3	61.3	58.4
	Muswellbrook	63.8	75.4	61.2	63.0	63.0
	John Hunter	56.9	51.9	54.2	54.2	53.9
	Other hospitals	64.2	66.2	67.0	68.5	66.0
TOTAL	54.4	55.8	55.6	56.4	54.5	
Northern NSW	Grafton Base	67.8	63.0	52.4	60.3	53.4
	Lismore Base	64.2	63.3	56.0	59.1	64.3
	Tweed Heads	61.9	65.1	61.6	53.8	61.6
	Other hospitals	93.1	90.1	96.5	98.4	98.2
TOTAL	65.7	66.9	60.8	59.8	64.1	
Mid North Coast	Coffs Harbour	56.1	51.9	54.3	54.6	56.2
	Kempsey	72.1	63.0	70.5	60.3	58.6
	Port Macquarie Base	56.8	55.9	57.0	50.0	49.7
	Other hospitals	90.0	91.7	66.7	63.6	100.0
TOTAL	58.6	55.1	56.9	53.9	55.1	
Southern NSW	Bega	56.4	53.8	49.2	54.2	54.0
	Goulburn Base	44.6	45.6	48.8	48.5	42.1
	Moruya	52.9	56.4	65.1	62.7	51.5
	Queanbeyan	61.2	55.0	52.0	44.6	49.3
	Other hospitals	67.5	56.8	57.5	73.2	83.0
TOTAL	55.8	53.5	53.5	53.4	53.4	
Murrumbidgee	Griffith Base	51.8	43.0	52.1	44.4	49.1
	Wagga Wagga Base	59.1	48.3	53.0	52.3	43.2
	Other hospitals	49.1	66.1	65.2	62.7	66.1
TOTAL	53.3	51.0	56.4	53.8	50.5	
Western NSW	Dubbo Base	67.6	62.2	51.7	48.8	52.1
	Mudgee	67.9	73.1	73.2	59.0	56.2
	Bathurst Base	53.2	57.7	57.0	50.7	65.5
	Orange Base	54.5	52.6	46.7	48.7	52.8
	Other hospitals	61.1	57.0	58.3	56.9	68.3
	TOTAL	60.7	58.8	53.7	50.9	56.7

(Continued on next page)

Reference

1. Australian Council on Healthcare Standards. *Obstetrics Indicator Users' Manual 2014. Obstetrics version 7.2.* Sydney: ACHS, 2014.

TABLE 58: (Continued)

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Far West	Broken Hill Base	58.0	56.0	46.5	65.0	67.7
	TOTAL	58.0	56.0	46.5	65.0	67.7
Private Hospitals	Mater, North Sydney	28.5	33.4	35.4	35.8	34.5
	North Shore Private	31.2	31.7	36.0	31.3	30.3
	Sydney Adventist	52.4	51.2	51.9	51.2	52.4
	North Gosford Private	30.5	36.7	35.3	27.6	33.5
	Hurstville Community	36.2	43.5	38.3	36.6	46.4
	Kareena Private	33.9	31.0	34.9	27.9	34.2
	St. George Private	33.0	31.1	33.0	27.8	32.8
	Prince of Wales Private	35.9	30.4	28.6	29.7	30.9

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
	Norwest Private	40.0	43.3	40.4	46.4	39.9
	Sydney Southwest Private	44.2	42.8	47.7	46.3	36.2
	Nepean Private	44.8	41.7	31.6	40.8	42.2
	Westmead Private	33.8	32.3	36.4	35.4	37.2
	Figtree Private	33.8	33.0	35.1	33.9	33.9
	Newcastle Private	41.4	41.3	42.9	38.8	40.8
	Calvary, Wagga Wagga	45.3	35.5	23.5	23.0	25.5
	Other hospitals	48.1	37.0	40.0	0.0	0.0
	TOTAL	37.1	36.9	37.4	36.6	36.9
TOTAL NSW*		50.6	51.4	50.6	50.0	49.8

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually.

* Total NSW includes births at home assisted by independent midwives.

Indicator 1.2

Definition: The total number of selected primipara who undergo induction of labour as a percentage of the total number of selected primipara who give birth.

A selected primipara is defined as a woman who is 20–34 years of age at the time of giving birth; giving birth for the first time at 20 weeks or greater gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 40⁶ weeks gestation. Induction of labour is defined as surgical and/or medical induction.

Table 59 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 59: 1.2 SELECTED PRIMIPARA WHO UNDERGO INDUCTION OF LABOUR BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015*

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	25.1	37.8	39.7	44.8	47.6
	Royal Prince Alfred	28.9	34.3	34.6	36.3	38.2
	TOTAL	28.2	35.1	35.7	38.4	40.5
South Western Sydney	Fairfield	25.6	24.6	25.9	30.4	28.9
	Liverpool	28.0	30.8	33.0	33.2	34.3
	Campbelltown	32.5	34.5	40.9	36.2	37.8
	Bankstown-Lidcombe	33.4	32.0	34.0	33.6	39.6
	Bowral	24.0	30.1	38.8	33.3	27.0
	TOTAL	29.9	30.9	34.6	33.7	35.4
South Eastern Sydney	St. George	40.4	40.5	44.9	47.2	49.1
	Sutherland	29.0	35.1	36.5	38.7	39.7
	Royal Hospital for Women	34.8	34.5	41.9	40.5	37.7
	Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	35.6	36.7	41.9	42.4	41.7	
Illawarra Shoalhaven	Shoalhaven	45.9	34.6	47.0	41.3	43.1
	Wollongong	41.1	36.3	38.2	46.4	44.2
	Other hospitals	26.7	21.9	18.8	11.8	0.0
	TOTAL	41.8	35.3	39.7	44.4	43.7
Western Sydney	Auburn	31.4	31.8	34.1	38.8	43.0
	Blacktown	43.7	45.0	46.0	43.9	45.8
	Westmead	40.8	40.0	45.2	48.2	46.3
	TOTAL	40.0	40.1	43.8	45.7	45.6
Nepean Blue Mountains	Blue Mountains	17.0	26.3	35.0	27.3	36.8
	Nepean	40.0	43.6	45.5	48.4	48.1
	Hawkesbury	42.9	32.5	47.3	47.0	44.3
	TOTAL	39.7	40.5	46.0	47.3	47.5
Northern Sydney	Hornsby	35.5	34.2	31.6	37.8	33.0
	Manly	39.3	43.0	43.6	42.3	48.0
	Mona Vale	0.0	34.0	37.4	30.8	36.0
	Royal North Shore	36.4	41.5	45.2	45.1	44.2
	Other hospitals	0.0	0.0	0.0	0.0	0.0
	TOTAL	36.3	39.1	40.5	40.6	40.9
Central Coast	Gosford	46.0	44.2	45.5	42.7	43.8
	Other hospitals	0.0	0.0	0.0	0.0	0.0
	TOTAL	44.1	41.9	42.5	41.2	42.1
Hunter New England	Armidale	37.7	37.5	39.6	32.0	29.8
	Inverell	40.4	53.3	28.8	39.1	35.0
	Tamworth Base	44.7	44.6	48.8	45.6	46.6
	Manning Base	44.0	34.6	42.8	40.1	43.4
	Maitland	45.9	42.1	48.0	43.9	45.6
	Muswellbrook	17.0	16.4	20.4	19.6	23.9
	John Hunter	39.3	43.0	43.1	46.0	47.1
	Other hospitals	26.5	23.2	26.2	27.1	25.1
	TOTAL	39.7	39.4	42.0	42.2	42.9
	Northern NSW	Grafton Base	40.0	32.0	41.9	39.7
Lismore Base		30.7	31.0	34.0	33.0	34.5
Tweed Heads		33.0	26.2	33.4	39.8	44.5

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		0.0	0.0	1.8	0.0	0.0
	TOTAL	30.6	25.5	32.7	34.6	37.9
Mid North Coast	Coffs Harbour	25.7	31.2	37.4	34.3	36.0
	Kempsey	34.4	17.4	36.4	27.6	34.5
	Port Macquarie Base	34.7	37.7	39.6	41.5	45.0
	Other hospitals	0.0	0.0	16.7	0.0	0.0
	TOTAL	29.5	31.8	38.0	35.2	38.2
Southern NSW	Bega	32.1	30.8	23.0	30.6	27.0
	Goulburn Base	18.1	27.8	30.5	31.8	30.3
	Moruya	19.1	29.5	30.2	27.1	30.3
	Queanbeyan	19.8	18.1	23.7	30.6	30.0
	Other hospitals	25.0	22.7	27.5	28.6	30.2
TOTAL	22.3	24.4	26.4	30.0	29.7	
Murrumbidgee	Griffith Base	29.5	35.2	30.7	41.0	45.5
	Wagga Wagga Base	46.1	40.5	43.5	44.8	49.4
	Other hospitals	21.1	26.8	30.3	28.0	27.4
	TOTAL	32.0	35.5	35.5	38.7	42.7
Western NSW	Dubbo Base	43.5	48.1	43.8	51.2	53.4
	Mudgee	50.9	35.9	40.8	32.8	32.9
	Bathurst Base	29.0	32.4	30.3	38.2	28.2
	Orange Base	35.3	41.5	48.3	45.8	48.0
	Other hospitals	26.9	27.3	23.3	33.0	28.7
TOTAL	37.1	39.2	40.2	43.7	43.0	
Far West	Broken Hill Base	26.0	30.0	25.6	46.7	30.6
	TOTAL	26.0	30.0	25.6	46.7	30.6
Private Hospitals	Mater, North Sydney	26.2	26.4	29.1	32.0	27.8
	North Shore Private	24.1	26.2	27.3	29.9	29.1
	Sydney Adventist	28.8	27.3	31.3	28.1	30.5
	North Gosford Private	43.2	44.5	45.4	44.8	47.7
	Hurstville Community	37.2	26.5	41.1	29.6	34.0
	Kareena Private	33.0	26.7	33.6	31.4	30.4
	St. George Private	39.3	32.4	33.3	35.4	42.7
	Prince of Wales Private	27.7	25.2	26.5	27.5	31.9
	Norwest Private	44.7	46.3	49.8	49.2	51.8
	Sydney Southwest Private	36.7	34.3	48.0	38.7	48.6
	Nepean Private	48.8	47.4	45.3	53.8	57.8
	Westmead Private	33.6	38.0	37.0	38.0	41.9
	Figtree Private	47.5	47.6	47.9	50.0	50.9
	Newcastle Private	36.1	37.3	39.4	41.7	46.3
	Calvary, Wagga Wagga	32.0	50.4	47.0	37.2	40.9
Other hospitals	42.6	42.5	30.0	0.0	0.0	
TOTAL	34.2	33.9	36.4	36.7	39.4	
TOTAL NSW*	34.9	35.6	38.6	39.5	40.8	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
Hospitals with more than 200 births in 2015 are identified individually.
* Total NSW includes births at home assisted by independent midwives.

Indicator 1.3

Definition: The total number of selected primipara who undergo an instrumental vaginal birth as a percentage of the total number of selected primipara who give birth.

A selected primipara is defined as a woman who is 20–34 years of age at the time of giving birth; giving birth for the first time at 20 weeks or greater gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 40⁶ weeks gestation.

Instrumental vaginal birth is defined as forceps or vacuum.

Table 60 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 60: 1.3 SELECTED PRIMIPARA WHO UNDERGO AN INSTRUMENTAL VAGINAL BIRTH BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015*

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	24.5	19.1	19.9	22.8	24.6
	Royal Prince Alfred	24.4	25.9	24.6	25.6	25.8
	TOTAL	24.4	24.4	23.5	24.9	25.5
South Western Sydney	Fairfield	12.1	8.8	7.6	8.4	10.5
	Liverpool	17.3	19.1	19.1	22.4	21.8
	Campbelltown	14.6	13.8	13.4	14.3	17.2
	Bankstown-Lidcombe	16.1	18.8	14.9	14.9	20.6
	Bowral	27.9	25.2	19.7	22.6	25.4
	TOTAL	15.8	15.8	14.6	16.2	18.5
South Eastern Sydney	St. George	28.0	26.8	24.7	26.8	27.2
	Sutherland	21.3	24.9	23.2	23.9	25.8
	Royal Hospital for Women	32.5	30.3	30.6	31.7	30.5
	Other hospitals	0.0	0.0	0.0	0.0	0.0
	TOTAL	29.2	28.3	27.4	28.8	28.6
Illawarra Shoalhaven	Shoalhaven	17.9	20.5	22.8	15.7	15.4
	Wollongong	19.0	17.8	21.0	21.0	21.7
	Other hospitals	33.3	25.0	25.0	0.0	0.0
	TOTAL	19.2	18.8	21.6	19.2	19.9
Western Sydney	Auburn	14.7	15.0	17.5	13.4	15.0
	Blacktown	25.4	25.7	22.1	21.2	21.6
	Westmead	24.1	23.0	26.9	23.2	21.2
	TOTAL	22.9	22.5	24.1	21.2	20.4
Nepean Blue Mountains	Blue Mountains	30.2	12.3	18.3	9.1	19.1
	Nepean	23.2	19.9	22.4	21.0	21.3
	Hawkesbury	13.0	19.0	19.0	18.6	22.6
	TOTAL	21.0	19.1	20.8	19.5	20.9
Northern Sydney	Hornsby	21.7	20.4	18.4	22.2	28.2
	Manly	30.5	32.9	25.3	26.3	27.7
	Mona Vale	0.0	26.4	32.3	27.3	17.6
	Royal North Shore	23.6	22.3	26.0	29.0	25.3
	Other hospitals	0.0	0.0	0.0	2.7	0.0
	TOTAL	24.4	23.9	24.6	26.6	24.9
Central Coast	Gosford	28.2	28.4	30.8	29.0	26.7
	Other hospitals	0.0	0.0	0.0	0.0	0.0
	TOTAL	27.0	27.0	28.8	27.9	25.7
Hunter New England	Armidale	21.7	15.4	13.2	23.7	16.5
	Inverell	30.8	18.3	11.9	10.9	23.3
	Tamworth Base	25.6	17.8	25.6	26.7	21.1
	Manning Base	23.2	24.0	26.4	30.6	28.3
	Maitland	19.5	17.0	17.2	15.3	20.0
	Muswellbrook	12.8	11.5	16.3	15.2	10.9
	John Hunter	19.1	24.0	19.9	21.7	22.7
	TOTAL	15.8	15.4	16.7	13.3	15.8
Northern NSW	Grafton Base	11.3	13.0	15.2	16.4	20.5
	Lismore Base	14.2	17.3	23.6	18.3	16.9
	Tweed Heads	17.3	20.9	18.4	21.2	20.9
Other hospitals		5.6	8.9	1.8	0.0	0.0
	TOTAL	14.6	17.8	18.8	18.0	18.1
Mid North Coast	Coffs Harbour	17.6	19.3	16.5	17.5	18.4
	Kempsey	14.8	15.2	11.4	15.5	8.6
	Port Macquarie Base	20.2	19.1	24.6	23.3	23.8
	Other hospitals	10.0	8.3	33.3	36.4	0.0
	TOTAL	18.1	18.7	19.6	19.6	18.8
Southern NSW	Bega	19.2	17.3	24.6	18.1	17.5
	Goulburn Base	30.1	38.0	28.0	27.3	32.9
	Moruya	26.5	24.4	12.7	15.3	21.2
	Queanbeyan	21.6	23.5	29.6	29.3	22.0
	TOTAL	22.6	24.6	23.9	22.2	20.8
Murrumbidgee	Griffith Base	25.9	32.4	25.7	23.9	21.8
	Wagga Wagga Base	15.6	17.6	20.8	15.4	20.3
	Other hospitals	21.1	13.4	13.6	15.5	19.4
	TOTAL	20.4	21.1	20.2	17.3	20.4
Western NSW	Dubbo Base	13.3	9.1	21.7	23.0	20.9
	Mudgee	7.5	14.1	11.3	19.7	19.2
	Bathurst Base	22.6	15.5	12.7	20.1	16.2
	Orange Base	24.1	26.1	23.4	23.9	26.6
	TOTAL	17.5	16.5	18.7	21.7	20.0
Far West	Broken Hill Base	14.0	14.0	30.2	23.3	14.5
	TOTAL	14.0	14.0	30.2	23.3	14.5
Private Hospitals	Mater, North Sydney	29.4	25.9	24.7	23.7	23.8
	North Shore Private	26.3	29.0	26.1	24.7	26.4
	Sydney Adventist	17.1	15.1	16.2	16.4	15.3
	North Gosford Private	33.1	18.8	25.2	27.1	27.2
	Hurstville Community	29.3	21.9	28.0	25.4	19.6
	Kareena Private	28.6	28.7	26.2	32.8	24.5
	St. George Private	27.7	25.9	29.6	29.3	28.9
	Prince of Wales Private	24.8	25.1	26.0	22.0	24.2
	Norwest Private	35.3	29.9	31.2	27.1	26.4
	Sydney Southwest Private	28.9	24.3	28.1	24.8	35.6
	Nepean Private	22.6	19.8	25.9	26.5	18.9
	Westmead Private	28.2	27.6	25.3	24.1	25.6
	Figtree Private	29.8	35.0	31.1	25.0	26.0
	Newcastle Private	29.3	26.1	29.0	26.7	25.4
	Calvary, Wagga Wagga	28.0	24.8	17.4	23.0	24.8
	Other hospitals	29.6	30.1	10.0	0.0	0.0
TOTAL	27.6	25.6	26.2	24.7	24.8	
TOTAL NSW*		23.1	22.6	22.9	22.7	22.8

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually.

* Total NSW includes births at home assisted by independent midwives.

Indicator 1.4

Definition: The total number of selected primipara undergoing caesarean section birth as a percentage of the total number of selected primipara who give birth.

A selected primipara is defined as a woman who is 20–34 years of age at the time of giving birth; giving birth for the first time at 20 weeks or greater gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 40⁶ weeks gestation.

Table 61 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 61: 1.4 SELECTED PRIMIPARA UNDERGOING CAESAREAN SECTION BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015*

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	20.3	28.2	25.4	25.5	25.8
	Royal Prince Alfred	24.2	20.0	22.5	22.0	22.0
	TOTAL	23.5	21.8	23.1	22.8	23.0
South Western Sydney	Fairfield	10.4	12.0	12.5	15.2	20.0
	Liverpool	16.5	18.2	17.7	18.8	18.3
	Campbelltown	19.5	20.8	20.9	23.6	21.3
	Bankstown-Lidcombe	16.8	19.3	21.1	20.7	19.9
	Bowral	17.1	17.1	23.1	32.1	26.2
	TOTAL	16.3	17.9	18.7	20.6	20.1
South Eastern Sydney	St. George	19.3	20.2	22.7	22.5	26.5
	Sutherland	14.3	16.3	18.9	18.2	21.4
	Royal Hospital for Women	20.5	16.7	18.9	19.6	22.1
	Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	19.1	17.8	20.1	20.3	23.4	
Illawarra Shoalhaven	Shoalhaven	35.3	21.8	24.7	26.5	35.6
	Wollongong	21.3	20.4	27.0	28.4	26.0
	Other hospitals	13.3	25.0	25.0	11.8	0.0
TOTAL	24.4	20.9	26.3	27.6	28.5	
Western Sydney	Auburn	20.7	13.8	18.3	20.6	23.3
	Blacktown	30.8	26.1	29.7	29.9	27.7
	Westmead	23.6	25.1	23.1	24.2	26.4
	TOTAL	25.1	23.6	24.3	25.3	26.3
Nepean Blue Mountains	Blue Mountains	24.5	14.0	35.0	15.2	27.9
	Nepean	32.6	34.8	32.7	33.3	35.6
	Hawkesbury	41.3	37.5	37.6	37.2	33.9
	Lithgow	39.1	22.0	32.2	38.3	33.3
TOTAL	34.2	33.8	33.7	33.2	34.8	
Northern Sydney	Hornsby	25.6	20.7	20.1	18.1	17.6
	Manly	17.5	15.1	21.5	24.9	23.4
	Mona Vale	0.0	30.2	24.2	19.4	22.5
	Royal North Shore	30.4	27.1	28.2	21.6	21.8
	Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	25.5	22.4	24.5	20.9	20.9	
Central Coast	Gosford	34.2	27.0	25.2	26.9	22.0
	Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	32.8	25.6	23.6	26.0	21.2	
Hunter New England	Armidale	29.2	27.2	24.2	37.1	38.8
	Inverell	32.7	35.0	52.5	42.2	33.3
	Tamworth Base	17.1	25.2	23.6	16.1	28.2
	Manning Base	23.2	19.6	17.0	14.6	23.3
	Maitland	35.1	26.8	26.5	23.4	21.6
	Muswellbrook	23.4	13.1	22.4	21.7	26.1
	John Hunter	24.0	24.1	25.9	24.1	23.4
	Other hospitals	20.0	18.4	16.3	18.2	18.1
	TOTAL	25.6	23.9	24.7	23.0	24.2
Northern NSW	Grafton Base	20.9	24.0	32.4	23.3	26.1
	Lismore Base	21.7	19.4	20.4	22.6	18.8
	Tweed Heads	20.9	14.0	20.0	24.9	17.6

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		1.4	1.0	1.8	1.6	1.8
	TOTAL	19.7	15.3	20.4	22.2	17.8
Mid North Coast	Coffs Harbour	26.4	28.8	29.1	27.9	25.5
	Kempsey	13.1	21.7	18.2	24.1	32.8
	Port Macquarie Base	23.0	25.0	18.4	26.7	26.5
	Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	23.3	26.2	23.5	26.5	26.0	
Southern NSW	Bega	24.4	28.8	26.2	27.8	28.6
	Goulburn Base	25.3	16.5	23.2	24.2	25.0
	Moruya	20.6	19.2	22.2	22.0	27.3
	Queanbeyan	14.7	21.5	18.4	26.1	28.7
	Other hospitals	22.5	29.5	32.5	17.9	13.2
TOTAL	20.8	21.9	22.6	24.4	25.7	
Murrumbidgee	Griffith Base	22.3	24.6	22.1	31.6	29.1
	Wagga Wagga Base	25.3	34.1	26.2	32.4	36.5
	Other hospitals	29.7	19.6	21.2	21.7	14.5
TOTAL	26.3	27.7	23.4	28.9	29.1	
Western NSW	Dubbo Base	19.1	28.6	26.6	28.2	27.1
	Mudgee	24.5	12.8	15.5	21.3	24.7
	Bathurst Base	24.2	26.8	30.3	29.2	18.3
	Orange Base	21.4	21.3	29.9	27.3	20.6
	Other hospitals	25.0	28.9	29.1	26.6	24.8
TOTAL	21.7	24.7	27.6	27.4	23.3	
Far West	Broken Hill Base	28.0	30.0	23.3	11.7	17.7
	TOTAL	28.0	30.0	23.3	11.7	17.7
Private Hospitals	Mater, North Sydney	41.6	40.5	39.5	40.1	41.6
	North Shore Private	42.4	39.2	37.9	44.0	43.2
	Sydney Adventist	30.5	33.3	31.9	32.4	32.3
	North Gosford Private	35.6	44.1	38.5	45.2	39.3
	Hurstville Community	34.5	34.6	33.6	38.0	34.0
	Kareena Private	37.4	39.9	38.4	39.3	41.4
	St. George Private	39.3	43.0	37.4	42.9	38.3
	Prince of Wales Private	39.0	44.2	45.2	48.2	44.9
	Norwest Private	24.6	26.6	28.1	26.2	33.7
	Sydney Southwest Private	26.9	32.6	23.8	28.9	28.2
	Nepean Private	32.5	38.5	42.5	32.8	39.0
	Westmead Private	37.9	40.1	38.3	40.5	37.0
	Figtree Private	36.5	32.0	33.8	41.1	40.1
	Newcastle Private	29.3	32.6	28.0	33.9	33.8
	Calvary, Wagga Wagga	26.7	39.0	59.1	53.4	49.6
	Other hospitals	22.2	32.9	50.0	100.0	100.0
TOTAL	35.2	37.4	36.3	38.5	38.2	
TOTAL NSW*	26.1	25.9	26.5	27.3	27.4	

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually.

* Total NSW includes births at home assisted by independent midwives.

Vaginal birth following caesarean section

Indicator 2.1

Definition: Total number of women delivering vaginally following a previous primary caesarean section at 20 weeks or greater gestation as a percentage of the total number of women delivering by any route who have had a previous primary caesarean section at 20 weeks or greater gestation and no intervening pregnancies.

Table 62 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 62: 2.1 VAGINAL DELIVERY AFTER PREVIOUS PRIMARY CAESAREAN SECTION BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015^a

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	13.4	7.4	8.2	10.9	12.2
	Royal Prince Alfred	11.0	12.7	15.4	11.3	13.9
	TOTAL	11.7	11.5	13.5	11.2	13.5
South Western Sydney	Fairfield	4.0	1.6	1.9	4.6	1.8
	Liverpool	21.5	24.4	13.8	14.8	8.9
	Campbelltown	17.4	25.2	20.1	20.6	19.0
	Bankstown-Lidcombe	19.4	18.5	15.6	18.9	13.0
	Bowral	18.9	10.5	5.4	15.2	4.2
	TOTAL	17.6	19.7	14.2	16.0	11.7
South Eastern Sydney	St. George	24.9	18.3	14.6	17.9	13.3
	Sutherland	0.0	0.0	0.0	3.4	1.2
	Royal Hospital for Women	11.2	10.4	12.0	9.7	10.5
	Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	14.4	12.2	11.6	11.9	10.4	
Illawarra Shoalhaven	Shoalhaven	9.0	14.3	16.1	19.8	6.8
	Wollongong	17.8	15.6	12.3	13.6	10.2
	Other hospitals	10.0	0.0	0.0	0.0	0.0
TOTAL	15.0	14.9	13.5	15.5	9.3	
Western Sydney	Auburn	0.0	1.2	2.8	1.2	2.6
	Blacktown	13.8	11.8	13.0	11.0	9.9
	Westmead	17.4	14.3	15.9	15.1	15.0
	TOTAL	14.6	12.4	14.0	12.7	12.5
Nepean Blue Mountains	Blue Mountains	0.0	0.0	12.5	6.5	0.0
	Nepean	12.8	10.3	12.0	9.3	12.7
	Hawkesbury	12.4	12.0	10.7	5.1	14.4
	Lithgow	0.0	0.0	6.3	10.0	0.0
TOTAL	12.0	10.0	11.6	8.5	11.9	
Northern Sydney	Hornsby	16.0	12.5	12.9	14.4	13.0
	Manly	16.9	16.9	16.0	8.4	7.3
	Mona Vale	0.0	7.7	5.6	4.1	11.1
	Royal North Shore	8.3	12.5	10.0	12.1	8.8
TOTAL	12.2	13.4	11.3	11.1	9.7	
Central Coast	Gosford	12.6	9.0	14.2	11.9	12.9
	TOTAL	12.6	9.0	14.2	11.9	12.9
Hunter New England	Armidale	13.0	7.8	18.2	7.1	22.9
	Inverell	20.0	13.3	11.1	11.4	12.0
	Tamworth Base	19.5	14.8	18.9	4.3	10.0
	Manning Base	21.9	20.5	22.6	14.5	20.6
	Maitland	14.4	13.6	17.1	20.1	21.3
	Muswellbrook	15.0	28.6	30.8	18.2	20.8
	John Hunter	18.9	18.1	19.4	17.8	14.3
	Other hospitals	16.9	21.4	8.1	10.0	5.4
	TOTAL	17.6	16.9	18.0	15.3	15.4
Northern NSW	Grafton Base	20.0	7.1	16.3	11.8	16.7
	Lismore Base	23.2	18.9	16.2	20.6	20.4
	Tweed Heads	26.0	16.4	21.1	35.2	11.1

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		0.0	0.0	0.0	0.0	0.0
	TOTAL	21.4	14.2	16.6	22.8	15.2
Mid North Coast	Coffs Harbour	4.0	14.3	5.9	5.8	6.7
	Kempsey	16.7	27.8	30.0	27.3	22.2
	Port Macquarie Base	15.1	18.2	15.9	17.9	11.0
	TOTAL	9.3	16.9	11.9	12.2	10.1
Southern NSW	Bega	13.3	15.4	5.3	18.8	8.7
	Goulburn Base	28.9	13.2	15.6	32.5	22.2
	Moruya	6.1	20.0	10.3	8.6	20.0
	Queanbeyan	12.1	6.7	3.2	11.8	0.0
Other hospitals	11.8	15.4	9.1	16.7	15.8	
TOTAL	15.4	14.1	9.0	18.3	13.2	
Murrumbidgee	Griffith Base	15.2	9.8	20.5	20.8	10.7
	Wagga Wagga Base	18.4	21.3	6.9	5.3	8.1
	Other hospitals	12.7	1.6	7.5	10.2	14.3
	TOTAL	15.7	11.9	10.1	10.4	10.5
Western NSW	Dubbo Base	15.5	13.3	17.8	9.7	13.8
	Mudgee	9.7	8.7	3.7	4.3	4.8
	Bathurst Base	20.4	18.5	12.0	8.8	19.0
	Orange Base	13.3	9.5	13.2	14.5	12.3
	Other hospitals	12.8	27.5	8.5	28.9	20.0
TOTAL	14.6	14.3	12.8	13.3	14.1	
Far West	Broken Hill Base	15.4	8.3	16.0	6.7	15.8
	TOTAL	15.4	8.3	16.0	6.7	15.8
Private Hospitals	Mater, North Sydney	2.9	5.3	5.7	1.9	4.1
	North Shore Private	4.9	5.9	5.1	4.5	6.0
	Sydney Adventist	6.0	7.5	8.8	7.3	5.3
	North Gosford Private	3.7	5.9	7.9	7.7	5.5
	Hurstville Community	6.9	3.5	5.2	5.6	4.7
	Kareena Private	2.1	3.2	7.9	4.7	3.1
	St. George Private	5.5	3.9	4.7	3.5	4.3
	Prince of Wales Private	3.7	1.9	2.8	2.5	2.8
	Norwest Private	6.8	7.4	5.0	5.9	5.6
	Sydney Southwest Private	0.0	1.8	0.8	1.4	0.0
	Nepean Private	8.8	5.6	5.2	6.0	4.7
	Westmead Private	6.5	6.0	5.0	3.8	5.4
	Figtree Private	2.5	8.4	4.4	1.9	5.5
	Newcastle Private	9.9	10.9	5.6	6.5	3.3
	Calvary, Wagga Wagga	12.6	8.3	5.7	0.0	3.3
Other hospitals	1.8	0.0	0.0	9.1	0.0	
TOTAL	5.2	5.6	5.2	4.3	4.4	
TOTAL NSW^b	11.5	11.0	10.8	10.2	9.6	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

^a Hospitals with more than 200 births in 2015 are identified individually.

^b Total NSW includes births at home assisted by independent midwives.

Major perineal tears and surgical repair of the perineum

Indicator 3.1

Definition: Total number of selected primipara with an intact perineum (other than superficial grazes) while giving birth vaginally as a percentage of the total number of selected primipara delivering vaginally.

A selected primipara is defined as a woman who is 20–34 years of age at the time of giving birth; giving birth for the first time at 20 weeks or greater gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 40⁶ weeks gestation.

Table 63 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 63: 3.1 SELECTED PRIMIPARA DELIVERING VAGINALLY WITH AN INTACT PERINEUM BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015^a

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	9.5	9.5	10.5	6.2	7.0
	Royal Prince Alfred	12.6	12.0	9.6	8.8	8.0
	TOTAL	11.9	11.5	9.8	8.2	7.7
South Western Sydney	Fairfield	24.4	23.4	24.6	21.0	19.3
	Liverpool	11.4	13.0	11.4	15.4	12.1
	Campbelltown	20.9	22.0	23.6	20.4	20.0
	Bankstown-Lidcombe	11.9	13.2	14.9	14.7	14.0
	Bowral	21.5	20.6	28.3	21.3	18.9
TOTAL	17.0	17.9	18.8	17.9	16.2	
South Eastern Sydney	St. George	13.5	12.2	9.9	8.3	8.0
	Sutherland	16.7	21.7	13.0	11.9	10.2
	Royal Hospital for Women	11.1	12.6	11.4	9.6	11.9
	Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	12.8	13.9	11.2	9.6	10.4	
Illawarra Shoalhaven	Shoalhaven	37.6	35.5	40.1	38.4	43.0
	Wollongong	12.9	12.7	13.7	10.1	12.6
	Other hospitals	42.3	20.8	25.0	40.0	33.3
TOTAL	19.1	19.0	20.7	18.1	20.1	
Western Sydney	Auburn	17.3	15.3	16.2	10.3	11.3
	Blacktown	9.5	10.0	6.8	6.3	9.1
	Westmead	10.9	9.0	7.3	7.7	6.5
	TOTAL	11.7	10.4	8.6	7.7	8.0
Nepean Blue Mountains	Blue Mountains	27.5	36.7	15.4	19.6	24.5
	Nepean	13.3	15.0	12.1	10.5	11.9
	Hawkesbury	30.9	26.4	25.5	28.1	23.3
	Lithgow	35.7	15.6	15.0	24.1	9.5
TOTAL	17.8	18.2	14.8	14.3	14.4	
Northern Sydney	Hornsby	16.1	14.4	15.4	11.4	9.5
	Manly	13.1	17.6	11.0	15.6	12.7
	Mona Vale	0.0	27.0	15.3	22.1	23.8
	Royal North Shore	8.4	9.5	9.3	7.2	9.2
	Other hospitals	45.2	35.9	51.6	48.6	34.3
TOTAL	12.4	13.9	12.5	12.3	12.2	
Central Coast	Gosford	11.9	16.8	9.6	11.7	12.1
	Other hospitals	31.3	51.4	49.0	44.8	28.1
	TOTAL	13.1	19.1	13.0	13.3	12.8
Hunter New England	Armidale	20.0	24.2	24.6	16.4	28.4
	Inverell	34.3	23.1	42.9	37.8	32.5
	Tamworth Base	18.8	17.2	21.1	18.1	14.1
	Manning Base	27.1	26.4	30.3	20.1	21.3
	Maitland	15.0	20.2	24.3	22.4	19.2
	Muswellbrook	27.8	39.6	15.8	25.0	29.4
	John Hunter	13.0	14.4	12.6	11.8	13.1
	Other hospitals	33.7	30.6	31.3	26.5	26.7
	TOTAL	18.1	19.9	19.9	17.4	17.6
Northern NSW	Grafton Base	39.6	43.4	39.4	39.3	35.4
	Lismore Base	28.8	20.7	25.7	27.8	27.5
	Tweed Heads	27.2	24.5	25.5	17.3	11.0

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		33.8	34.0	42.9	46.7	50.9
TOTAL		29.8	26.3	28.0	26.5	22.0
Mid North Coast	Coffs Harbour	17.4	16.2	14.4	15.3	15.6
	Kempsey	49.1	30.6	36.1	31.8	25.6
	Port Macquarie Base	20.1	15.7	20.1	8.5	12.2
	Other hospitals	50.0	33.3	33.3	36.4	25.0
TOTAL	22.9	17.8	19.2	15.5	15.7	
Southern NSW	Bega	20.3	27.0	37.8	28.8	24.4
	Goulburn Base	8.1	12.1	14.3	12.0	12.3
	Moruya	29.6	34.9	32.7	32.6	35.4
	Queanbeyan	38.8	33.3	29.8	35.3	29.9
	Other hospitals	45.2	38.7	48.1	45.7	58.7
TOTAL	28.0	29.0	29.9	31.6	31.0	
Murrumbidgee	Griffith Base	33.3	28.0	34.9	28.8	32.1
	Wagga Wagga Base	32.2	23.0	25.8	25.8	20.3
	Other hospitals	31.7	32.6	43.3	37.3	31.1
TOTAL	32.3	27.2	34.1	30.4	26.4	
Western NSW	Dubbo Base	27.1	33.1	23.5	25.7	23.5
	Mudgee	22.5	22.1	21.7	25.0	23.6
	Bathurst Base	36.2	26.0	23.2	17.6	23.3
	Orange Base	20.5	19.6	14.2	12.1	16.5
	Other hospitals	33.3	37.4	27.4	28.8	39.5
TOTAL	27.1	27.1	20.9	20.9	23.2	
Far West	Broken Hill Base	52.8	31.4	21.2	45.3	47.1
	TOTAL	52.8	31.4	21.2	45.3	47.1
Private Hospitals	Mater, North Sydney	8.6	11.7	15.1	13.9	11.1
	North Shore Private	10.9	12.2	12.4	12.5	10.0
	Sydney Adventist	11.8	11.9	14.2	10.7	12.5
	North Gosford Private	16.6	19.5	11.9	11.3	11.0
	Hurstville Community	5.3	9.7	11.3	12.1	10.2
	Kareena Private	19.7	11.6	7.8	7.2	9.4
	St. George Private	11.7	12.4	8.9	8.2	10.4
	Prince of Wales Private	17.3	10.8	12.3	11.0	11.0
	Norwest Private	7.5	7.9	12.3	12.0	12.7
	Sydney Southwest Private	12.9	12.2	10.0	12.8	6.9
	Nepean Private	7.6	9.9	6.3	3.8	5.9
	Westmead Private	6.6	6.2	3.0	4.7	6.1
	Figtree Private	6.8	9.0	5.0	5.2	6.4
	Newcastle Private	21.8	17.7	13.8	17.2	8.7
	Calvary, Wagga Wagga	8.2	4.7	11.1	14.5	15.9
	Other hospitals	14.3	10.2	0.0	0.0	0.0
	TOTAL	11.7	11.2	10.7	10.7	9.8
TOTAL NSW^a	15.6	15.6	14.7	13.7	13.4	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
^a Hospitals with more than 200 births in 2015 are identified individually.
* Total NSW includes births at home assisted by independent midwives.

Indicator 3.2

Definition: Total number of selected primipara undergoing episiotomy and no perineal tear (other than superficial grazes) while giving birth vaginally as a percentage of the total number of selected primipara delivering vaginally.

A selected primipara is defined as a woman who is 20–34 years of age at the time of giving birth; giving birth for the first time at 20 weeks or greater gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 40⁶ weeks gestation.

Table 64 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 64: 3.2 SELECTED PRIMIPARA UNDERGOING EPISIOTOMY AND NO PERINEAL TEAR BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015*

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	22.3	24.5	28.9	36.4	39.9
	Royal Prince Alfred	17.5	20.3	23.5	27.1	25.0
	TOTAL	18.4	21.2	24.7	29.3	28.6
South Western Sydney	Fairfield	25.5	25.0	24.6	30.7	31.1
	Liverpool	26.8	30.7	33.2	30.4	32.4
	Campbelltown	22.2	21.3	19.1	24.1	27.2
	Bankstown-Lidcombe	28.8	31.5	31.5	31.8	30.5
	Bowral	26.2	24.5	17.7	33.3	32.2
	TOTAL	25.8	26.9	26.5	29.1	30.2
South Eastern Sydney	St. George	22.5	19.4	25.1	31.2	32.4
	Sutherland	20.0	21.1	23.5	32.0	36.8
	Royal Hospital for Women	23.9	28.5	27.8	32.1	27.9
	Other hospitals	0.0	0.0	0.0	0.0	0.0
	TOTAL	22.8	24.3	26.2	31.8	30.8
Illawarra Shoalhaven	Shoalhaven	20.6	24.6	27.8	18.9	22.7
	Wollongong	16.4	16.0	20.6	26.3	25.6
	Other hospitals	19.2	4.2	4.2	0.0	33.3
TOTAL	17.4	17.8	21.8	23.7	24.9	
Western Sydney	Auburn	20.4	21.3	27.7	26.3	32.0
	Blacktown	36.4	37.8	32.8	39.1	40.4
	Westmead	36.1	36.0	37.9	42.7	43.5
	TOTAL	33.4	33.9	34.9	39.3	40.8
Nepean Blue Mountains	Blue Mountains	10.0	4.1	2.6	8.9	8.2
	Nepean	25.6	24.7	28.1	22.5	30.0
	Hawkesbury	14.8	26.4	26.2	23.0	32.9
	TOTAL	22.4	23.5	26.8	21.5	29.5
Northern Sydney	Hornsby	20.7	16.8	14.0	17.7	22.4
	Manly	18.3	22.9	22.0	19.8	24.6
	Mona Vale	0.0	13.5	20.0	12.7	11.0
	Royal North Shore	22.6	25.2	25.9	27.2	25.1
	Other hospitals	0.0	2.6	3.2	2.7	0.0
	TOTAL	20.4	21.7	21.5	21.7	22.2
Central Coast	Gosford	17.3	15.6	23.2	21.5	22.4
	Other hospitals	3.1	0.0	0.0	3.4	0.0
	TOTAL	16.4	14.5	21.3	20.6	21.3
Hunter New England	Armidale	32.0	25.3	17.4	42.6	31.1
	Inverell	48.6	51.3	28.6	37.8	50.0
	Tamworth Base	23.0	17.9	26.3	27.5	27.7
	Manning Base	19.4	12.5	15.9	9.0	18.0
	Maitland	14.3	17.6	12.3	11.5	15.0
	Muswellbrook	13.9	20.8	18.4	38.9	11.8
	John Hunter	16.2	18.7	23.1	22.0	19.5
	Other hospitals	13.4	14.9	15.9	12.7	13.6
	TOTAL	17.8	18.6	19.9	20.2	19.9
Northern NSW	Grafton Base	12.1	18.4	15.5	10.1	7.7
	Lismore Base	12.7	17.3	23.7	19.4	17.4
	Tweed Heads	7.9	16.0	13.1	17.7	20.1

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		4.2	3.0	1.8	1.7	0.0
	TOTAL	9.7	15.1	15.9	15.7	16.3
Mid North Coast	Coffs Harbour	12.8	17.1	18.3	20.8	18.6
	Kempsey	11.3	5.6	8.3	9.1	12.8
	Port Macquarie Base	17.7	13.7	17.8	20.9	27.3
	Other hospitals	0.0	8.3	16.7	0.0	0.0
	TOTAL	14.2	14.6	17.1	18.9	20.6
Southern NSW	Bega	13.6	10.8	17.8	13.5	8.9
	Goulburn Base	75.8	59.1	52.4	40.0	45.6
	Moruya	16.7	12.7	14.3	15.2	14.6
	Queanbeyan	7.1	12.0	12.1	17.2	15.0
	TOTAL	24.7	22.3	21.1	19.0	17.8
Murrumbidgee	Griffith Base	25.3	29.0	18.3	26.3	17.9
	Wagga Wagga Base	11.3	16.3	13.7	18.4	27.5
	Other hospitals	25.2	23.6	12.5	11.1	19.8
TOTAL	20.3	22.4	14.8	17.6	22.8	
Western NSW	Dubbo Base	21.8	24.4	28.1	33.0	30.5
	Mudgee	5.0	14.7	16.7	20.8	23.6
	Bathurst Base	21.3	10.6	11.1	25.5	17.2
	Orange Base	16.5	19.1	18.6	25.4	22.5
	TOTAL	17.7	18.1	20.1	26.1	23.0
Far West	Broken Hill Base	13.9	14.3	30.3	22.6	15.7
	TOTAL	13.9	14.3	30.3	22.6	15.7
Private Hospitals	Mater, North Sydney	41.1	42.5	37.9	37.9	39.4
	North Shore Private	38.4	40.1	32.0	36.8	31.9
	Sydney Adventist	30.9	31.8	32.7	38.4	30.4
	North Gosford Private	39.7	35.9	46.3	52.2	35.2
	Hurstville Community	38.9	39.5	42.3	38.6	34.4
	Kareena Private	26.1	29.7	31.2	31.7	26.6
	St. George Private	34.5	27.4	27.2	25.8	30.2
	Prince of Wales Private	33.8	31.6	41.7	45.2	40.5
	Norwest Private	37.5	30.3	36.4	35.5	42.7
	Sydney Southwest Private	55.6	52.2	51.3	49.7	54.3
	Nepean Private	57.1	53.9	57.0	60.0	53.3
	Westmead Private	59.1	66.8	63.5	64.6	66.3
	Figtree Private	52.1	48.1	55.0	49.4	53.2
	Newcastle Private	23.2	25.2	13.4	15.3	12.5
	Calvary, Wagga Wagga	41.8	42.4	44.4	36.2	29.0
	Other hospitals	54.8	49.0	20.0	0.0	0.0
	TOTAL	40.1	39.2	39.0	40.4	38.9
TOTAL NSW*	25.8	26.7	27.7	29.8	30.0	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually.

* Total NSW includes births at home assisted by independent midwives.

Indicator 3.3

Definition: Total number of selected primipara sustaining a perineal tear and no episiotomy while giving birth vaginally as a percentage of the total number of selected primipara delivering vaginally.

A selected primipara is defined as a woman who is 20–34 years of age at the time of giving birth; giving birth for the first time at 20 weeks or greater gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 40⁶ weeks gestation.

Table 65 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 65: 3.3 SELECTED PRIMIPARA SUSTAINING A PERINEAL TEAR AND NO EPISIOTOMY BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015*

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	64.0	58.6	59.2	51.4	48.1
	Royal Prince Alfred	66.1	65.5	60.9	56.9	61.7
	TOTAL	65.6	64.1	60.5	55.6	58.4
South Western Sydney	Fairfield	56.3	58.0	54.2	50.8	53.6
	Liverpool	55.7	54.8	53.9	53.0	51.0
	Campbelltown	61.4	63.6	63.7	61.5	57.2
	Bankstown-Lidcombe	55.6	51.4	47.8	47.6	49.9
	Bowral	50.5	58.8	58.4	43.5	50.0
	TOTAL	57.1	57.2	55.8	53.5	53.1
South Eastern Sydney	St. George	55.6	55.8	56.1	51.0	52.6
	Sutherland	61.3	58.9	57.8	49.9	47.8
	Royal Hospital for Women	57.9	55.2	57.5	53.7	55.7
	Other hospitals	0.0	0.0	0.0	0.0	100.0
	TOTAL	57.7	56.0	57.1	52.2	53.4
Illawarra Shoalhaven	Shoalhaven	61.0	60.1	56.2	63.4	51.7
	Wollongong	68.8	72.0	61.8	61.9	59.1
	Other hospitals	50.0	75.0	75.0	80.0	33.3
TOTAL	66.5	69.0	60.9	62.7	57.2	
Western Sydney	Auburn	60.9	64.5	57.7	60.9	51.9
	Blacktown	48.3	46.6	50.7	44.6	44.4
	Westmead	45.2	47.6	43.5	35.9	39.4
	TOTAL	48.8	50.3	47.7	42.0	42.8
Nepean Blue Mountains	Blue Mountains	77.5	73.5	87.2	69.6	73.5
	Nepean	59.5	59.2	56.0	62.5	54.1
	Hawkesbury	61.1	56.8	56.7	61.5	50.0
	Lithgow	46.4	53.1	52.5	62.1	54.8
TOTAL	60.2	59.5	57.5	62.8	54.5	
Northern Sydney	Hornsby	61.4	65.0	69.6	70.9	58.3
	Manly	60.2	57.5	59.6	58.9	53.6
	Mona Vale	0.0	67.6	66.0	69.6	70.3
	Royal North Shore	55.0	57.7	55.6	55.1	57.3
	Other hospitals	83.9	82.1	96.8	81.1	88.6
	TOTAL	58.6	60.3	61.4	61.2	59.2
Central Coast	Gosford	61.3	64.9	57.4	59.9	60.6
	Other hospitals	84.4	73.0	86.3	86.2	87.5
	TOTAL	62.7	65.4	59.8	61.1	61.9
Hunter New England	Armidale	48.0	53.5	65.2	41.0	52.7
	Inverell	28.6	30.8	57.1	45.9	35.0
	Tamworth Base	60.0	62.3	59.3	54.9	57.6
	Manning Base	63.6	69.4	66.7	72.4	63.9
	Maitland	69.7	67.4	70.8	70.7	69.4
	Muswellbrook	66.7	47.2	68.4	55.6	70.6
	John Hunter	67.8	65.6	61.9	63.0	65.1
	Other hospitals	68.6	66.7	58.5	66.3	64.2
	TOTAL	65.5	64.2	63.4	63.3	63.9
	Northern NSW	Grafton Base	65.9	56.6	56.3	73.0
Lismore Base		70.0	67.9	59.3	69.0	69.1
Tweed Heads		73.1	67.7	69.9	62.5	67.1

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		77.5	81.0	78.6	91.7	80.0
	TOTAL	71.6	68.3	65.9	68.8	69.5
Mid North Coast	Coffs Harbour	70.2	63.3	65.0	67.3	68.3
	Kempsey	62.3	77.8	69.4	77.3	69.2
	Port Macquarie Base	62.2	63.4	63.9	65.9	49.6
	Other hospitals	60.0	75.0	66.7	100.0	83.3
	TOTAL	66.1	65.0	65.0	68.9	62.2
Southern NSW	Bega	69.5	78.4	60.0	57.7	68.9
	Goulburn Base	11.3	24.2	30.2	46.0	42.1
	Moruya	53.7	49.2	69.4	71.7	62.5
	Queanbeyan	60.2	70.1	67.7	50.9	74.8
	Other hospitals	64.5	54.8	63.0	60.9	71.7
TOTAL	51.3	55.7	58.8	55.8	65.3	
Murrumbidgee	Griffith Base	56.3	52.3	65.1	56.3	66.7
	Wagga Wagga Base	71.3	63.7	67.7	61.3	55.6
	Other hospitals	46.3	46.1	55.8	59.5	55.7
TOTAL	57.8	55.3	63.2	59.6	58.2	
Western NSW	Dubbo Base	54.7	51.7	49.5	44.7	54.5
	Mudgee	72.5	67.6	75.0	58.3	65.5
	Bathurst Base	59.6	72.1	76.8	63.7	66.4
	Orange Base	67.6	57.3	61.7	57.2	58.0
	Other hospitals	64.2	61.5	61.6	58.8	67.1
TOTAL	61.5	59.9	61.5	54.4	60.0	
Far West	Broken Hill Base	61.1	71.4	51.5	66.0	76.5
	TOTAL	61.1	71.4	51.5	66.0	76.5
Private Hospitals	Mater, North Sydney	40.6	34.8	38.8	38.6	42.6
	North Shore Private	50.7	46.1	53.5	45.2	56.2
	Sydney Adventist	58.0	57.0	51.9	48.9	55.4
	North Gosford Private	32.5	37.5	35.8	28.7	40.7
	Hurstville Community	46.8	47.6	43.7	44.7	50.8
	Kareena Private	54.2	58.1	56.0	56.1	63.3
	St. George Private	54.4	60.2	62.1	64.6	59.4
	Prince of Wales Private	43.9	50.4	40.3	35.9	36.7
	Norwest Private	47.8	53.7	43.9	40.1	35.0
	Sydney Southwest Private	28.4	32.2	37.0	27.2	28.0
	Nepean Private	24.7	28.3	28.2	25.0	26.3
	Westmead Private	32.1	24.9	28.5	25.9	23.1
	Figtree Private	40.5	42.4	38.1	43.6	38.2
	Newcastle Private	60.9	59.7	62.4	50.2	55.8
	Calvary, Wagga Wagga	33.6	42.4	37.0	46.4	46.4
	Other hospitals	28.6	34.7	60.0	0.0	0.0
	TOTAL	44.9	46.0	45.2	41.4	43.6
TOTAL NSW*	56.6	56.6	55.4	53.0	53.5	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
Hospitals with more than 200 births in 2015 are identified individually.
* Total NSW includes births at home assisted by independent midwives.

Indicator 3.4

Definition: Total number of selected primipara undergoing episiotomy and sustaining a perineal tear while giving birth vaginally as a percentage of the total number of selected primipara delivering vaginally.

A selected primipara is defined as a woman who is 20–34 years of age at the time of giving birth; giving birth for the first time at 20 weeks or greater gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 40⁶ weeks gestation.

Table 66 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 66: 3.4 SELECTED PRIMIPARA UNDERGOING EPISIOTOMY AND SUSTAINING A PERINEAL TEAR BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015⁴

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	6.25	6.43	4.53	6.87	6.57
	Royal Prince Alfred	7.79	6.38	8.68	9.83	8.20
	TOTAL	7.48	6.39	7.77	9.14	7.80
South Western Sydney	Fairfield	2.13	1.92	3.63	2.47	2.96
	Liverpool	6.49	5.60	4.53	4.43	5.52
	Campbelltown	3.09	1.94	3.16	1.77	1.68
	Bankstown-Lidcombe	6.83	8.09	7.91	6.51	8.75
	Bowral	1.87	0.98	1.77	1.85	2.22
	TOTAL	4.61	4.22	4.55	3.67	4.48
South Eastern Sydney	St. George	12.22	15.99	13.30	13.76	9.72
	Sutherland	6.41	7.78	10.23	10.85	8.33
	Royal Hospital for Women	11.43	8.53	7.76	9.14	9.08
	Other hospitals	0.00	0.00	0.00	0.00	0.00
	TOTAL	10.80	10.88	9.93	10.91	9.14
Illawarra Shoalhaven	Shoalhaven	3.55	2.19	1.23	1.83	4.65
	Wollongong	4.87	5.11	7.94	5.03	6.03
	Other hospitals	3.85	8.33	4.17	0.00	0.00
TOTAL	4.56	4.45	6.13	4.09	5.67	
Western Sydney	Auburn	8.77	7.55	8.09	7.43	9.94
	Blacktown	10.30	7.77	13.00	12.01	10.14
	Westmead	11.16	10.67	13.98	16.10	13.25
	TOTAL	10.52	9.34	12.76	13.71	11.85
Nepean Blue Mountains	Blue Mountains	2.50	2.04	5.13	1.79	8.16
	Nepean	8.25	9.06	8.10	10.39	9.47
	Hawkesbury	6.04	6.40	3.55	2.22	4.11
	Lithgow	25.00	12.50	10.00	6.90	9.52
TOTAL	8.15	8.33	7.25	8.44	8.49	
Northern Sydney	Hornsby	6.67	10.18	8.03	4.01	12.20
	Manly	13.08	10.20	12.65	12.55	13.49
	Mona Vale	0.00	5.41	6.67	7.84	6.98
	Royal North Shore	18.80	11.66	14.97	14.06	13.56
	Other hospitals	3.23	2.56	0.00	2.70	0.00
	TOTAL	14.06	10.53	11.80	10.84	12.16
Central Coast	Gosford	16.04	10.18	13.79	12.39	10.63
	Other hospitals	0.00	0.00	0.00	0.00	3.13
	TOTAL	15.04	9.48	12.62	11.79	10.27
Hunter New England	Armidale	10.67	8.08	10.14	11.48	5.41
	Inverell	2.86	5.13	3.57	2.70	2.50
	Tamworth Base	6.67	8.61	4.64	8.24	6.81
	Manning Base	5.43	4.17	2.27	4.48	4.92
	Maitland	10.33	4.11	7.69	7.48	9.31
	Muswellbrook	5.56	1.89	7.89	2.78	8.82
	John Hunter	8.17	9.54	9.04	9.87	9.82
	Other hospitals	7.56	5.86	8.21	4.22	8.52
	TOTAL	8.08	7.25	7.67	8.08	8.59
	Northern NSW	Grafton Base	1.10	1.32	2.82	3.37
Lismore Base		6.54	5.91	6.32	3.70	6.28
Tweed Heads		5.95	5.66	6.80	10.25	5.79

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		5.63	3.00	0.00	0.00	1.82
	TOTAL	5.55	5.02	5.81	6.17	5.34
Mid North Coast	Coffs Harbour	6.88	10.00	6.67	6.44	7.54
	Kempsey	3.77	2.78	0.00	0.00	5.13
	Port Macquarie Base	7.93	11.11	10.06	8.53	12.95
	Other hospitals	0.00	0.00	0.00	0.00	0.00
	TOTAL	6.74	9.49	7.42	6.22	9.00
Southern NSW	Bega	5.08	5.41	2.22	7.69	13.33
	Goulburn Base	1.61	4.55	7.94	6.00	1.75
	Moruya	9.26	3.17	0.00	8.70	8.33
	Queanbeyan	4.08	5.13	3.23	8.62	4.67
	Other hospitals	0.00	9.68	7.41	2.17	2.17
TOTAL	4.28	5.10	3.90	7.10	5.61	
Murrumbidgee	Griffith Base	8.05	5.61	1.83	7.50	3.85
	Wagga Wagga Base	4.35	5.93	5.65	6.75	11.11
	Other hospitals	3.25	4.49	5.77	6.35	7.55
TOTAL	4.92	5.44	4.45	6.78	8.31	
Western NSW	Dubbo Base	6.22	2.33	7.14	4.85	4.69
	Mudgee	12.50	4.41	3.33	6.25	3.64
	Bathurst Base	6.38	7.69	4.04	2.94	6.03
	Orange Base	9.66	14.57	15.30	13.29	11.50
	Other hospitals	7.41	3.30	6.85	6.25	6.58
	TOTAL	7.79	7.41	8.67	7.22	7.12
Far West	Broken Hill Base	2.78	5.71	9.09	1.89	1.96
	TOTAL	2.78	5.71	9.09	1.89	1.96
Private Hospitals	Mater, North Sydney	5.14	7.01	3.88	6.47	5.29
	North Shore Private	0.24	0.92	0.72	1.66	0.71
	Sydney Adventist	1.01	0.47	1.44	1.60	1.47
	North Gosford Private	7.95	3.13	2.24	3.48	9.66
	Hurstville Community	5.26	4.32	2.11	2.27	4.69
	Kareena Private	0.70	1.29	0.71	0.72	0.00
	St. George Private	0.00	0.59	0.26	0.80	0.00
	Prince of Wales Private	4.28	7.08	4.72	5.37	5.13
	Norwest Private	2.40	4.44	4.57	4.99	3.84
	Sydney Southwest Private	3.56	2.61	1.74	2.01	5.17
	Nepean Private	5.88	3.29	4.23	5.63	6.58
	Westmead Private	0.80	1.01	0.74	0.78	0.82
	Figtree Private	0.53	0.48	0.00	0.00	0.00
	Newcastle Private	0.00	0.00	2.45	14.29	9.69
	Calvary, Wagga Wagga	10.00	2.35	1.85	4.35	2.90
	Other hospitals	11.90	8.16	0.00	0.00	0.00
	TOTAL	2.54	2.73	2.22	3.93	3.60
	TOTAL NSW⁴	7.14	6.56	7.09	7.68	7.38

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
[#] Hospitals with more than 200 births in 2015 are identified individually.
^{*} Total NSW includes births at home assisted by independent midwives.

Indicator 3.5

Definition: Total number of selected primipara undergoing surgical repair of the perineum for third degree tear while giving birth vaginally as a percentage of the total number of selected primipara delivering vaginally.

A selected primipara is defined as a woman who is 20–34 years of age at the time of giving birth; giving birth for the first time at 20 weeks or greater gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 40⁶ weeks gestation. Surgical repair is defined as suture of the perineum following delivery.

Table 67 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 67: 3.5 SELECTED PRIMIPARA UNDERGOING SURGICAL REPAIR OF THE PERINEUM FOR THIRD DEGREE TEAR BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015*

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	9.75	6.90	10.26	5.54	10.09
	Royal Prince Alfred	7.15	7.63	6.17	8.08	8.87
	TOTAL	7.68	7.48	7.08	7.49	9.17
South Western Sydney	Fairfield	3.29	7.69	8.87	6.79	5.93
	Liverpool	7.65	6.58	5.96	6.77	5.64
	Campbelltown	3.09	5.26	2.65	5.58	3.36
	Bankstown-Lidcombe	5.63	5.23	4.68	5.31	8.38
	Bowral	0.00	5.88	4.42	2.78	3.33
	TOTAL	4.80	6.14	5.21	5.97	5.45
South Eastern Sydney	St. George	7.87	11.01	9.12	11.80	6.94
	Sutherland	5.13	8.61	8.95	7.75	11.02
	Royal Hospital for Women	8.19	5.66	5.57	4.92	7.36
	Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	7.55	7.89	7.29	7.60	7.87	
Illawarra Shoalhaven	Shoalhaven	2.84	2.19	1.85	3.66	5.81
	Wollongong	5.85	7.57	3.43	4.60	3.58
	Other hospitals	0.00	0.00	4.17	0.00	0.00
	TOTAL	5.00	5.89	3.07	4.25	4.11
Western Sydney	Auburn	4.98	5.03	4.44	5.43	6.35
	Blacktown	6.64	4.93	8.72	4.93	5.53
	Westmead	6.47	5.92	6.99	4.80	6.04
	TOTAL	6.25	5.50	7.04	4.93	5.95
Nepean Blue Mountains	Blue Mountains	2.50	10.20	7.69	12.50	8.16
	Nepean	4.60	6.62	6.03	6.36	3.85
	Hawkesbury	4.70	6.40	4.96	4.44	1.37
	Lithgow	3.57	0.00	0.00	3.45	0.00
	TOTAL	4.49	6.54	5.63	6.36	3.49
Northern Sydney	Hornsby	5.96	7.49	5.02	8.36	9.15
	Manly	4.94	1.98	8.57	6.84	11.51
	Mona Vale	0.00	2.70	6.00	8.33	12.79
	Royal North Shore	10.60	9.51	11.73	10.84	8.08
	Other hospitals	3.23	2.56	0.00	2.70	0.00
	TOTAL	7.79	6.78	8.81	9.19	9.26
Central Coast	Gosford	7.29	7.19	9.62	6.98	7.30
	Other hospitals	0.00	0.00	5.88	6.90	3.13
	TOTAL	6.84	6.69	9.30	6.98	7.10
Hunter New England	Armidale	0.00	2.02	4.35	3.28	2.70
	Inverell	0.00	2.56	0.00	2.70	0.00
	Tamworth Base	5.45	3.97	5.15	5.49	4.19
	Manning Base	3.88	6.25	2.27	3.73	8.20
	Maitland	10.00	7.33	7.69	6.23	8.71
	Muswellbrook	2.78	0.00	5.26	0.00	5.88
	John Hunter	8.42	8.09	8.06	10.11	8.62
	Other hospitals	6.98	5.86	3.59	5.42	3.41
	TOTAL	7.27	6.55	6.44	7.39	7.15
Northern NSW	Grafton Base	4.40	2.63	0.00	0.00	0.00
	Lismore Base	1.92	2.95	2.37	5.09	5.80
	Tweed Heads	6.52	4.25	5.58	5.65	5.49

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		1.41	2.00	3.57	0.00	0.00
	TOTAL	4.26	3.46	3.91	4.17	4.58
Mid North Coast	Coffs Harbour	3.67	6.19	6.11	5.94	3.52
	Kempsey	1.89	0.00	5.56	4.55	5.13
	Port Macquarie Base	7.32	9.80	12.43	9.30	5.04
	Other hospitals	0.00	0.00	0.00	0.00	0.00
	TOTAL	4.72	6.81	8.70	6.74	4.11
Southern NSW	Bega	1.69	5.41	4.44	5.77	4.44
	Goulburn Base	3.23	1.52	1.59	4.00	3.51
	Moruya	5.56	12.70	8.16	10.87	12.50
	Queanbeyan	3.06	0.00	3.23	4.31	3.74
	Other hospitals	6.45	6.45	7.41	4.35	4.35
TOTAL	3.62	4.14	4.22	5.48	5.28	
Murrumbidgee	Griffith Base	2.30	2.80	1.83	2.50	2.56
	Wagga Wagga Base	2.61	8.89	8.06	7.36	6.54
	Other hospitals	0.81	4.49	3.85	4.76	9.43
TOTAL	1.85	5.74	4.75	5.42	6.53	
Western NSW	Dubbo Base	3.11	4.65	2.04	3.40	4.23
	Mudgee	2.50	1.47	0.00	6.25	1.82
	Bathurst Base	3.19	9.62	4.04	5.88	6.90
	Orange Base	12.50	10.55	9.29	10.40	8.50
	Other hospitals	6.17	5.49	4.11	8.75	6.58
	TOTAL	6.17	7.10	4.58	6.73	6.06
Far West	Broken Hill Base	0.00	0.00	3.03	0.00	1.96
	TOTAL	0.00	0.00	3.03	0.00	1.96
Private Hospitals	Mater, North Sydney	2.86	2.34	1.83	2.16	4.50
	North Shore Private	1.90	1.15	1.91	1.11	2.38
	Sydney Adventist	1.26	0.47	0.72	0.91	1.96
	North Gosford Private	4.64	2.34	2.99	0.00	4.14
	Hurstville Community	2.11	2.16	1.41	2.27	1.56
	Kareena Private	1.41	1.29	3.55	2.16	1.44
	St. George Private	1.63	2.65	3.39	2.93	1.89
	Prince of Wales Private	0.90	0.88	2.36	0.85	2.05
	Norwest Private	3.37	2.22	2.91	3.39	2.16
	Sydney Southwest Private	3.11	3.04	2.61	2.01	3.45
	Nepean Private	5.29	1.97	2.82	0.63	3.95
	Westmead Private	1.00	0.40	0.93	0.58	0.82
	Figtree Private	1.58	0.95	0.99	0.58	0.00
	Newcastle Private	2.11	3.10	5.12	5.67	5.67
	Calvary, Wagga Wagga	10.91	5.88	0.00	4.35	0.00
	Other hospitals	2.38	2.04	0.00	0.00	0.00
TOTAL	2.34	1.78	2.33	2.04	2.57	
TOTAL NSW*	5.36	5.43	5.53	5.64	5.78	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually.

* Total NSW includes births at home assisted by independent midwives.

Indicator 3.6

Definition: Total number of selected primipara undergoing surgical repair of the perineum for fourth degree tear while giving birth vaginally as a percentage of the total number of selected primipara delivering vaginally.

A selected primipara is defined as a woman who is 20–34 years of age at the time of giving birth; giving birth for the first time at 20 weeks or greater gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 40⁶ weeks gestation. Surgical repair is defined as suture of the perineum following delivery.

Table 68 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 68: 3.6 SELECTED PRIMIPARA UNDERGOING SURGICAL REPAIR OF THE PERINEUM FOR FOURTH DEGREE TEAR BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015*

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	0.75	0.24	0.95	0.22	0.00
	Royal Prince Alfred	0.26	0.50	0.34	0.34	0.30
	TOTAL	0.36	0.45	0.48	0.31	0.23
South Western Sydney	Fairfield	0.58	0.70	0.00	0.21	0.00
	Liverpool	0.29	0.42	0.26	0.12	0.12
	Campbelltown	0.29	0.28	0.25	0.25	0.36
	Bankstown-Lidcombe	0.34	0.51	0.36	0.34	0.00
	Bowral	0.00	0.00	0.00	0.93	0.00
TOTAL	0.35	0.44	0.22	0.25	0.15	
South Eastern Sydney	St. George	0.00	0.39	0.15	0.28	0.46
	Sutherland	0.26	0.28	0.26	0.00	0.81
	Royal Hospital for Women	0.18	0.84	0.46	0.35	0.73
	Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	0.14	0.61	0.32	0.27	0.66	
Illawarra Shoalhaven	Shoalhaven	0.00	1.09	0.62	0.00	0.00
	Wollongong	0.78	0.20	0.43	0.00	0.75
	Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	0.59	0.43	0.46	0.00	0.57	
Western Sydney	Auburn	0.00	0.23	0.26	0.57	0.28
	Blacktown	0.17	0.45	1.27	1.15	0.46
	Westmead	0.45	0.22	0.45	0.44	0.23
TOTAL	0.30	0.28	0.64	0.65	0.30	
Nepean Blue Mountains	Blue Mountains	0.00	0.00	0.00	0.00	0.00
	Nepean	0.32	0.87	0.52	0.62	0.48
	Hawkesbury	0.00	0.00	0.00	0.00	0.68
	Lithgow	0.00	0.00	2.50	0.00	0.00
TOTAL	0.24	0.64	0.50	0.46	0.47	
Northern Sydney	Hornsby	0.35	0.90	0.00	0.67	0.34
	Manly	0.29	0.28	0.00	0.38	0.00
	Mona Vale	0.00	0.00	0.67	0.00	0.00
	Royal North Shore	0.51	0.77	0.00	0.65	0.43
	Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	0.40	0.64	0.07	0.51	0.28	
Central Coast	Gosford	0.63	0.80	0.18	1.05	0.63
	Other hospitals	0.00	0.00	3.92	0.00	0.00
TOTAL	0.59	0.74	0.50	1.00	0.60	
Hunter New England	Armidale	0.00	0.00	0.00	0.00	0.00
	Inverell	0.00	0.00	0.00	0.00	0.00
	Tamworth Base	0.00	0.00	0.52	1.10	0.00
	Manning Base	0.78	0.00	0.00	0.75	0.00
	Maitland	1.00	0.29	0.62	1.25	0.60
	Muswellbrook	0.00	0.00	0.00	0.00	0.00
	John Hunter	0.37	0.36	0.61	0.61	0.72
	Other hospitals	0.00	0.00	0.51	1.20	0.00
	TOTAL	0.41	0.21	0.50	0.80	0.44
Northern NSW	Grafton Base	0.00	0.00	0.00	1.12	1.54
	Lismore Base	0.00	0.00	0.00	0.93	0.48
	Tweed Heads	0.85	0.24	0.49	0.35	0.30

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		1.41	0.00	0.00	0.00	0.00
	TOTAL	0.52	0.12	0.25	0.62	0.46
Mid North Coast	Coffs Harbour	0.00	0.48	0.00	0.50	0.50
	Kempsey	0.00	0.00	0.00	0.00	0.00
	Port Macquarie Base	0.61	0.65	0.00	0.00	0.00
	Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	0.22	0.49	0.00	0.26	0.26	
Southern NSW	Bega	0.00	0.00	2.22	1.92	0.00
	Goulburn Base	0.00	0.00	0.00	0.00	0.00
	Moruya	0.00	0.00	0.00	0.00	2.08
	Queanbeyan	0.00	0.85	0.00	0.86	0.00
Other hospitals	0.00	0.00	0.00	0.00	0.00	
TOTAL	0.00	0.32	0.32	0.65	0.33	
Murrumbidgee	Griffith Base	1.15	0.00	0.00	0.00	0.00
	Wagga Wagga Base	0.87	0.74	0.00	0.00	0.00
	Other hospitals	0.00	1.12	0.00	1.59	0.00
TOTAL	0.62	0.60	0.00	0.54	0.00	
Western NSW	Dubbo Base	0.44	0.00	0.00	0.00	0.94
	Mudgee	0.00	1.47	0.00	0.00	1.82
	Bathurst Base	0.00	0.96	0.00	0.00	1.72
	Orange Base	0.57	0.00	0.00	0.00	0.50
	Other hospitals	1.23	1.10	4.11	0.00	1.32
TOTAL	0.49	0.47	0.49	0.00	1.06	
Far West	Broken Hill Base	0.00	0.00	0.00	0.00	0.00
	TOTAL	0.00	0.00	0.00	0.00	0.00
Private Hospitals	Mater, North Sydney	0.86	0.23	0.00	0.24	0.00
	North Shore Private	0.00	0.00	0.00	0.28	0.00
	Sydney Adventist	0.25	0.23	0.48	0.00	0.25
	North Gosford Private	0.00	0.00	0.75	0.00	0.69
	Hurstville Community	0.00	1.08	0.00	0.00	0.00
	Kareena Private	0.00	0.00	0.00	0.00	0.00
	St. George Private	0.00	0.00	0.78	0.00	0.00
	Prince of Wales Private	0.68	0.22	0.00	0.28	0.00
	Norwest Private	0.24	0.00	0.00	0.00	0.00
	Sydney Southwest Private	0.44	0.00	0.43	0.00	0.00
	Nepean Private	0.00	0.66	0.00	0.63	0.00
	Westmead Private	0.20	0.00	0.00	0.00	0.00
	Figtree Private	0.00	0.00	0.00	0.58	0.00
	Newcastle Private	1.17	0.22	0.00	0.00	0.00
Calvary, Wagga Wagga	2.73	0.00	0.00	0.00	0.00	
Other hospitals	0.00	0.00	0.00	0.00	0.00	
TOTAL	0.40	0.15	0.15	0.11	0.05	
TOTAL NSW*	0.35	0.38	0.33	0.37	0.32	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
 # Hospitals with more than 200 births in 2015 are identified individually.
 * Total NSW includes births at home assisted by independent midwives.

General anaesthesia for caesarean section

Indicator 4.1

Definition: Total number of women having a general anaesthetic for a caesarean section as a percentage of women having a caesarean section.

Table 69 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 69: 4.1 GENERAL ANAESTHESIA FOR CAESAREAN SECTION BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015*

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	7.69	11.86	13.47	10.52	10.61
	Royal Prince Alfred	12.47	10.43	10.08	10.09	11.13
	TOTAL	11.56	10.77	10.87	10.19	11.00
South Western Sydney	Fairfield	25.08	21.91	14.48	11.82	12.43
	Liverpool	16.76	18.06	14.68	15.08	13.67
	Campbelltown	10.77	11.25	9.39	10.73	13.14
	Bankstown-Lidcombe	16.67	17.69	12.72	10.26	10.68
	Bowral	13.51	10.20	11.90	10.56	10.53
TOTAL	15.98	16.43	12.61	12.26	12.62	
South Eastern Sydney	St. George	9.40	8.87	9.91	7.01	7.47
	Sutherland	10.62	11.58	8.94	10.94	9.69
	Royal Hospital for Women	3.77	4.42	4.51	4.15	3.88
	Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	6.29	6.83	6.85	6.03	5.88	
Illawarra Shoalhaven	Shoalhaven	9.44	6.10	6.51	7.87	5.90
	Wollongong	10.00	8.26	9.12	9.54	7.26
	Other hospitals	0.00	3.85	11.76	20.00	0.00
TOTAL	9.52	7.50	8.42	9.15	6.81	
Western Sydney	Auburn	13.81	10.57	5.64	7.74	8.33
	Blacktown	15.33	10.43	12.77	12.73	11.89
	Westmead	9.85	11.40	9.30	9.95	8.40
TOTAL	12.07	11.00	10.07	10.67	9.53	
Nepean Blue Mountains	Blue Mountains	8.33	9.62	8.33	6.58	3.53
	Nepean	13.98	18.36	16.19	15.25	13.90
	Hawkesbury	10.12	8.49	7.48	7.94	8.49
	Lithgow	14.71	4.08	3.28	6.15	4.69
TOTAL	13.11	16.00	13.91	13.45	12.34	
Northern Sydney	Hornsby	5.67	5.88	6.40	5.50	6.92
	Manly	4.67	4.21	4.20	7.43	7.43
	Mona Vale	0.00	0.00	6.08	8.42	8.25
	Royal North Shore	7.35	5.14	5.16	5.16	5.62
	Other hospitals	0.00	100.00	0.00	0.00	0.00
TOTAL	6.45	5.03	5.32	5.97	6.46	
Central Coast	Gosford	10.67	7.78	7.74	6.54	6.33
	TOTAL	10.67	7.78	7.74	6.54	6.33
Hunter New England	Armidale	7.94	9.33	5.38	4.84	5.84
	Inverell	0.00	3.37	2.13	3.09	1.27
	Tamworth Base	11.37	10.37	9.82	13.50	14.78
	Manning Base	11.48	15.66	13.64	11.88	11.11
	Maitland	15.58	13.46	9.79	10.74	6.78
	Muswellbrook	9.62	0.00	0.00	0.00	0.00
	John Hunter	14.93	16.55	18.25	15.36	12.49
	Other hospitals	23.98	24.46	24.86	30.34	19.41
	TOTAL	14.12	14.74	14.48	13.92	11.30
Northern NSW	Grafton Base	8.11	10.61	9.23	8.49	11.40
	Lismore Base	8.33	5.33	6.55	6.44	4.92
	Tweed Heads	10.20	12.11	7.23	12.01	7.82

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		6.56	1.30	0.00	2.17	0.00
	TOTAL	8.85	8.49	6.73	8.63	6.93
Mid North Coast	Coffs Harbour	8.91	10.06	8.22	7.67	7.87
	Kempsey	9.09	3.33	1.92	15.38	0.00
	Port Macquarie Base	7.66	6.79	9.05	10.17	11.11
	TOTAL	8.47	8.27	7.97	9.19	8.42
Southern NSW	Bega	3.23	9.09	15.38	3.17	5.88
	Goulburn Base	13.58	12.50	2.74	2.94	7.78
	Moruya	9.88	5.68	8.96	6.25	4.05
	Queanbeyan	11.84	8.91	12.04	5.05	3.39
Other hospitals	10.00	8.00	2.22	18.18	11.76	
TOTAL	10.00	8.83	8.70	5.83	5.73	
Murrumbidgee	Griffith Base	11.67	10.12	6.02	10.53	5.96
	Wagga Wagga Base	7.58	11.57	6.84	8.33	12.72
	Other hospitals	5.95	5.77	7.69	4.40	3.54
TOTAL	7.95	9.54	6.86	7.85	9.30	
Western NSW	Dubbo Base	22.67	17.91	18.42	21.36	17.11
	Mudgee	9.52	5.08	7.94	1.61	8.57
	Bathurst Base	9.23	9.47	13.51	5.71	10.67
	Orange Base	14.08	16.78	11.21	11.05	5.98
	Other hospitals	20.59	19.01	10.00	0.93	7.45
TOTAL	16.72	15.46	13.43	11.89	11.01	
Far West	Broken Hill Base	16.67	12.50	14.52	8.33	8.00
	TOTAL	16.67	12.50	14.52	8.33	8.00
Private Hospitals	Mater, North Sydney	2.79	2.44	2.25	2.60	1.62
	North Shore Private	2.68	1.89	1.28	1.80	1.62
	Sydney Adventist	3.66	3.71	6.34	3.75	3.87
	North Gosford Private	3.41	2.17	3.95	2.61	2.85
	Hurstville Community	6.00	3.92	4.22	2.24	4.36
	Kareena Private	3.49	2.76	1.76	2.62	3.63
	St. George Private	4.91	4.07	3.23	4.04	3.42
	Prince of Wales Private	0.88	1.00	0.67	2.12	2.01
	Norwest Private	7.96	6.73	6.92	4.50	6.09
	Sydney Southwest Private	7.00	3.80	4.26	4.11	3.67
	Nepean Private	5.17	7.46	5.12	4.33	4.60
	Westmead Private	6.83	2.03	3.24	3.70	2.84
	Figtree Private	2.83	4.51	3.35	3.32	4.46
	Newcastle Private	3.18	1.48	2.07	1.78	2.59
	Calvary, Wagga Wagga	6.19	2.95	4.02	3.94	1.04
Other hospitals	9.73	4.17	8.57	4.88	0.00	
TOTAL	4.06	2.97	3.10	3.03	2.98	
TOTAL NSW*	9.03	8.45	7.97	7.86	7.40	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
Hospitals with more than 200 births in 2015 are identified individually.
* Total NSW includes births at home assisted by independent midwives.

Postpartum haemorrhage and blood transfusion after vaginal birth

Indicator 7.1

Definition: Total number of women who give birth vaginally who receive a blood transfusion during the same admission as a percentage of women who give birth vaginally.

Table 70 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 70: 7.1 POSTPARTUM HAEMORRHAGE AND BLOOD TRANSFUSION FOLLOWING VAGINAL BIRTH BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015*

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	1.36	1.23	1.68	1.52	0.99
	Royal Prince Alfred	0.91	0.79	1.10	0.93	0.96
	TOTAL	1.03	0.90	1.26	1.09	0.97
South Western Sydney	Fairfield	1.26	0.43	0.48	0.61	0.85
	Liverpool	0.82	0.78	0.69	0.82	0.48
	Campbelltown	0.95	0.71	1.00	1.01	1.07
	Bankstown-Lidcombe	1.05	0.86	1.10	1.35	0.84
	Bowral	0.51	0.55	0.00	0.61	1.39
	TOTAL	0.97	0.70	0.79	0.94	0.82
South Eastern Sydney	St. George	1.40	1.64	1.54	1.73	1.83
	Sutherland	1.22	0.89	2.13	1.46	1.75
	Royal Hospital for Women	2.22	1.83	1.54	1.53	1.24
	Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	1.78	1.61	1.65	1.58	1.52	
Illawarra Shoalhaven	Shoalhaven	2.16	1.98	1.95	1.46	1.58
	Wollongong	1.23	0.98	1.86	1.50	1.53
	Other hospitals	0.00	2.11	1.27	0.00	0.00
TOTAL	1.40	1.27	1.86	1.45	1.53	
Western Sydney	Auburn	1.59	0.68	0.76	1.43	0.81
	Blacktown	1.86	1.13	0.74	1.13	1.17
	Westmead	1.64	1.64	2.20	1.88	1.49
	TOTAL	1.70	1.32	1.53	1.59	1.30
Nepean Blue Mountains	Blue Mountains	0.00	1.20	3.01	2.81	2.35
	Nepean	1.21	1.32	1.65	2.18	1.49
	Hawkesbury	0.91	1.01	0.98	1.05	2.71
	Lithgow	7.03	6.25	1.76	0.00	0.00
TOTAL	1.33	1.47	1.62	1.95	1.64	
Northern Sydney	Hornsby	1.53	1.19	0.86	0.89	1.14
	Manly	1.70	1.03	1.98	1.34	1.59
	Mona Vale	0.00	0.92	2.04	0.86	2.52
	Royal North Shore	1.96	0.98	1.27	1.17	1.03
	Other hospitals	0.00	0.00	0.00	0.00	0.81
TOTAL	1.71	1.01	1.36	1.07	1.33	
Central Coast	Gosford	1.18	0.93	1.01	1.08	1.36
	Other hospitals	0.60	0.57	1.19	0.70	0.00
TOTAL	1.13	0.89	1.02	1.05	1.26	
Hunter New England	Armidale	1.32	1.60	0.32	1.40	1.78
	Inverell	1.04	1.16	2.59	0.56	2.01
	Tamworth Base	1.71	1.39	1.44	2.54	2.17
	Manning Base	2.68	1.36	2.54	2.20	3.61
	Maitland	1.24	2.12	1.71	1.72	1.78
	Muswellbrook	0.00	0.00	0.70	0.66	1.27
	John Hunter	2.02	1.82	2.23	1.87	2.77
	Other hospitals	1.25	1.38	1.00	1.16	1.82
	TOTAL	1.70	1.66	1.82	1.78	2.39
Northern NSW	Grafton Base	2.82	0.96	1.54	1.85	1.02
	Lismore Base	1.69	0.98	1.66	2.19	1.89
	Tweed Heads	1.82	1.39	1.69	2.45	1.96

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		0.66	0.91	1.15	1.68	0.54
TOTAL		1.77	1.15	1.61	2.20	1.71
Mid North Coast	Coffs Harbour	1.82	2.09	0.69	0.72	0.85
	Kempsey	1.23	2.97	2.50	1.92	3.50
	Port Macquarie Base	0.68	2.60	1.33	1.33	2.62
	Other hospitals	0.00	1.64	0.00	0.00	1.85
	TOTAL	1.27	2.38	1.14	1.08	1.87
Southern NSW	Bega	0.53	1.80	1.23	2.70	2.65
	Goulburn Base	1.30	0.80	0.00	1.97	1.38
	Moruya	3.13	3.32	1.31	1.01	2.20
	Queanbeyan	1.03	3.36	4.04	5.63	0.34
Other hospitals	3.57	2.42	0.00	1.64	0.00	
TOTAL	1.77	2.44	1.72	3.02	1.27	
Murrumbidgee	Griffith Base	2.33	0.85	2.58	3.29	1.19
	Wagga Wagga Base	0.99	1.22	2.04	1.68	1.91
	Other hospitals	6.24	5.34	1.32	1.68	2.04
TOTAL	3.33	2.60	1.94	2.08	1.77	
Western NSW	Dubbo Base	1.01	1.33	1.91	1.61	1.58
	Mudgee	1.18	1.98	0.00	1.10	2.27
	Bathurst Base	2.80	2.80	1.92	1.80	1.34
	Orange Base	1.37	2.03	1.65	1.64	0.85
	Other hospitals	2.60	2.69	0.84	0.55	1.73
TOTAL	1.64	2.00	1.55	1.45	1.40	
Far West	Broken Hill Base	1.32	2.87	3.73	2.92	1.78
	TOTAL	1.32	2.87	3.73	2.92	1.78
Private Hospitals	Mater, North Sydney	1.34	2.04	2.32	1.43	0.91
	North Shore Private	0.30	0.55	0.41	0.10	0.51
	Sydney Adventist	2.98	1.71	2.80	3.14	2.94
	North Gosford Private	3.82	3.48	2.10	3.86	1.09
	Hurstville Community	1.61	2.00	1.68	1.20	0.98
	Kareena Private	0.72	0.24	0.23	0.49	0.26
	St. George Private	0.11	0.32	0.21	0.44	0.46
	Prince of Wales Private	1.79	1.73	2.21	1.82	0.27
	Norwest Private	1.39	2.21	1.74	1.28	0.71
	Sydney Southwest Private	0.96	1.60	2.45	0.00	0.17
	Nepean Private	1.69	2.15	2.48	2.54	0.00
	Westmead Private	0.45	0.39	0.39	0.78	0.88
	Figtree Private	0.34	0.00	0.00	0.21	0.38
	Newcastle Private	0.17	0.24	0.86	1.81	0.34
	Calvary, Wagga Wagga	1.35	0.70	2.35	2.02	0.98
	Other hospitals	0.72	0.85	0.00	0.00	0.00
TOTAL	1.17	1.25	1.44	1.38	0.80	
TOTAL NSW*		1.44	1.33	1.45	1.45	1.32

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
Hospitals with more than 200 births in 2015 are identified individually.
* Total NSW includes births at home assisted by independent midwives.

Indicator 7.2

Definition: Total number of women who undergo caesarean section who receive a blood transfusion during the same admission as a percentage of women who undergo caesarean section.

Table 71 shows information for hospitals where at least 200 mothers gave birth in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 71: 7.2 POSTPARTUM HAEMORRHAGE AND BLOOD TRANSFUSION FOLLOWING CAESAREAN SECTION BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015*

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	0.96	1.02	1.89	1.24	1.02
	Royal Prince Alfred	0.45	0.83	1.47	0.81	0.73
	TOTAL	0.55	0.88	1.57	0.91	0.80
South Western Sydney	Fairfield	0.61	0.77	1.61	0.99	1.35
	Liverpool	1.46	1.16	0.62	1.66	0.43
	Campbelltown	0.73	0.76	0.41	0.54	1.24
	Bankstown-Lidcombe	1.13	0.80	1.16	1.21	0.89
	Bowral	0.00	0.00	0.00	0.70	0.00
TOTAL	0.99	0.87	0.79	1.12	0.86	
South Eastern Sydney	St. George	1.54	0.72	2.94	1.96	2.35
	Sutherland	1.10	1.40	1.66	2.19	0.94
	Royal Hospital for Women	2.68	1.90	2.16	2.41	1.77
	Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	2.14	1.45	2.33	2.24	1.84	
Illawarra Shoalhaven	Shoalhaven	2.45	3.25	3.83	3.15	2.80
	Wollongong	1.55	1.55	2.99	1.88	2.22
	Other hospitals	3.70	0.00	5.88	20.00	0.00
TOTAL	1.90	1.99	3.28	2.31	2.40	
Western Sydney	Auburn	1.80	3.40	3.01	1.35	1.92
	Blacktown	1.24	1.47	0.91	1.02	1.26
	Westmead	1.85	2.82	2.54	1.98	2.30
	TOTAL	1.65	2.44	2.05	1.59	1.92
Nepean Blue Mountains	Blue Mountains	0.00	1.92	3.33	1.32	1.18
	Nepean	2.13	2.23	3.41	2.57	2.88
	Hawkesbury	1.84	2.58	1.36	1.08	0.74
	Lithgow	2.94	2.04	3.28	1.54	1.56
TOTAL	2.05	2.28	3.04	2.25	2.45	
Northern Sydney	Hornsby	2.55	1.68	2.02	2.27	0.38
	Manly	3.12	0.70	2.29	1.12	1.12
	Mona Vale	0.00	1.92	0.00	0.53	0.52
	Royal North Shore	2.66	1.71	1.68	1.12	1.49
	Other hospitals	0.00	100.00	0.00	0.00	0.00
TOTAL	2.73	1.59	1.69	1.27	1.13	
Central Coast	Gosford	1.65	1.98	1.11	1.15	1.01
	TOTAL	1.65	1.98	1.11	1.15	1.01
Hunter New England	Armidale	0.79	0.67	0.77	0.81	2.92
	Inverell	2.11	5.62	4.26	2.06	2.53
	Tamworth Base	1.90	2.49	2.46	2.55	2.06
	Manning Base	1.64	1.20	1.30	2.50	3.17
	Maitland	2.30	2.90	3.73	2.39	1.41
	Muswellbrook	0.00	0.00	0.00	2.13	2.00
	John Hunter	2.47	4.20	4.58	3.75	3.43
	Other hospitals	2.92	4.35	1.10	3.37	2.35
	TOTAL	2.21	3.38	3.46	3.04	2.78
Northern NSW	Grafton Base	0.90	6.82	2.31	0.94	1.75
	Lismore Base	1.11	0.94	2.98	2.03	0.38
	Tweed Heads	1.64	1.41	2.71	2.47	1.63

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		1.64	0.00	0.00	0.00	0.00
	TOTAL	1.32	1.93	2.55	1.92	1.11
Mid North Coast	Coffs Harbour	1.95	0.86	0.57	1.92	0.87
	Kempsey	1.82	5.00	5.77	1.92	1.64
	Port Macquarie Base	2.55	1.36	3.33	2.12	1.15
	TOTAL	2.16	1.43	1.95	1.99	1.05
Southern NSW	Bega	0.00	4.55	1.92	0.00	2.94
	Goulburn Base	0.00	3.75	0.00	0.00	1.11
	Moruya	3.70	5.68	1.49	3.75	0.00
	Queanbeyan	5.26	5.94	8.33	2.02	0.00
Other hospitals	0.00	2.00	0.00	0.00	0.00	
TOTAL	2.06	4.68	3.19	1.46	0.78	
Murrumbidgee	Griffith Base	3.33	2.38	0.75	1.32	0.66
	Wagga Wagga Base	1.01	0.83	3.85	1.74	2.66
	Other hospitals	4.86	5.13	4.90	5.66	5.31
	TOTAL	2.98	2.47	3.33	2.67	2.66
Western NSW	Dubbo Base	0.67	4.18	2.30	2.08	2.06
	Mudgee	1.59	0.00	1.59	1.61	2.86
	Bathurst Base	3.08	4.14	1.35	1.71	1.33
	Orange Base	2.11	1.75	1.15	0.58	1.66
	Other hospitals	2.94	2.48	2.50	0.00	1.06
TOTAL	1.82	2.99	1.73	1.27	1.78	
Far West	Broken Hill Base	1.52	3.75	0.00	0.00	2.00
	TOTAL	1.52	3.75	0.00	0.00	2.00
Private Hospitals	Mater, North Sydney	0.87	0.93	0.87	0.93	0.45
	North Shore Private	0.08	0.00	0.18	0.28	0.00
	Sydney Adventist	0.65	0.37	0.43	0.25	0.40
	North Gosford Private	1.57	1.63	1.13	0.58	0.32
	Hurstville Community	1.25	1.31	0.90	1.60	0.67
	Kareena Private	2.03	0.83	0.00	0.00	0.00
	St. George Private	0.42	0.38	0.26	0.48	0.71
	Prince of Wales Private	1.15	1.28	2.07	1.46	0.42
	Norwest Private	0.35	1.02	0.85	0.82	0.25
	Sydney Southwest Private	0.29	1.36	0.00	0.51	0.52
	Nepean Private	0.57	1.10	2.70	0.31	0.00
	Westmead Private	0.33	0.21	0.31	0.40	0.55
	Figtree Private	1.03	1.43	0.26	0.77	0.50
	Newcastle Private	0.00	0.12	0.83	0.63	0.13
Calvary, Wagga Wagga	2.38	0.84	0.40	0.39	0.35	
Other hospitals	1.77	1.04	0.00	2.44	2.27	
TOTAL	0.71	0.74	0.80	0.68	0.35	
TOTAL NSW*	1.42	1.58	1.72	1.43	1.25	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Hospitals with more than 200 births in 2015 are identified individually.

* Total NSW includes births at home assisted by independent midwives.

Intrauterine growth restriction

Indicator 8.1

Definition: Total number of babies born with birth weight less than 2,750 grams at 40⁰ weeks gestation or beyond as a percentage of the total number of babies born at 40⁰ weeks gestation or beyond.

Table 72 shows information for hospitals where at least 200 babies were born in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 72: 8.1 INTRAUTERINE GROWTH RESTRICTION AT 40 WEEKS GESTATION OR MORE BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015^a

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	3.42	1.86	1.38	1.89	2.57
	Royal Prince Alfred	1.23	1.39	1.36	1.55	1.14
	TOTAL	1.75	1.50	1.36	1.63	1.47
South Western Sydney	Fairfield	1.52	1.82	2.45	3.04	1.92
	Liverpool	2.23	2.57	1.99	2.31	2.73
	Campbelltown	1.60	1.15	1.46	1.28	1.99
	Bankstown-Lidcombe	2.47	2.41	1.17	2.16	1.74
	Bowral	1.95	1.40	0.51	1.44	0.57
	TOTAL	1.98	1.95	1.67	2.08	2.08
South Eastern Sydney	St. George	2.33	2.75	2.12	2.04	2.16
	Sutherland	1.28	2.62	0.88	0.67	0.17
	Royal Hospital for Women	1.83	1.23	1.20	1.62	1.78
	TOTAL	1.89	1.97	1.42	1.57	1.58
Illawarra Shoalhaven	Shoalhaven	1.49	1.58	1.52	0.29	2.02
	Wollongong	1.05	0.83	1.16	0.74	0.94
	Other hospitals	1.72	0.00	0.00	2.86	0.00
	TOTAL	1.20	1.01	1.23	0.67	1.25
Western Sydney	Auburn	1.67	2.09	2.10	2.76	2.08
	Blacktown	2.11	1.60	1.52	1.72	1.70
	Westmead	2.76	2.51	2.53	2.44	2.12
	TOTAL	2.38	2.14	2.15	2.26	1.99
Nepean Blue Mountains	Blue Mountains	1.85	0.00	0.83	1.71	0.00
	Nepean	1.93	0.66	1.53	1.87	2.11
	Hawkesbury	2.07	1.02	0.96	0.69	2.27
	Lithgow	5.33	3.33	4.23	2.74	1.64
	TOTAL	2.08	0.77	1.49	1.70	1.97
Northern Sydney	Hornsby	1.81	2.08	1.04	1.97	1.05
	Manly	0.65	1.17	0.90	1.57	1.18
	Mona Vale	0.00	2.30	1.02	1.48	0.60
	Royal North Shore	2.23	2.14	1.92	1.59	1.37
	Other hospitals	0.00	0.00	0.00	0.00	0.00
	TOTAL	1.63	1.82	1.35	1.61	1.10
Central Coast	Gosford	1.12	1.15	1.58	1.86	1.15
	Other hospitals	1.18	0.00	0.00	1.64	0.00
	TOTAL	1.12	1.06	1.47	1.85	1.07
Hunter New England	Armidale	0.50	3.19	1.65	3.01	1.31
	Inverell	4.29	1.52	1.10	1.12	1.25
	Tamworth Base	3.35	3.09	2.56	0.93	3.12
	Manning Base	1.62	1.27	1.88	1.08	1.46
	Maitland	1.15	1.85	1.47	1.48	1.47
	Muswellbrook	0.87	0.93	2.22	1.01	1.77
	John Hunter	1.46	1.86	1.74	1.31	1.17
	Other hospitals	2.33	2.39	1.49	1.60	1.57
	TOTAL	1.69	2.02	1.74	1.38	1.53
	Northern NSW	Grafton Base	1.76	1.04	1.49	2.04
Lismore Base		2.00	0.99	1.28	1.26	2.14
Tweed Heads		1.20	1.56	0.79	0.52	0.50

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		1.94	0.46	1.27	0.69	1.61
	TOTAL	1.63	1.18	1.08	1.01	1.19
Mid North Coast	Coffs Harbour	1.01	1.34	2.55	1.30	0.00
	Kempsey	0.79	1.87	0.97	1.82	0.87
	Port Macquarie Base	1.36	1.24	1.61	0.65	1.70
	Other hospitals	3.45	0.00	0.00	3.57	4.35
	TOTAL	1.18	1.32	1.91	1.21	0.88
Southern NSW	Bega	2.22	1.01	0.00	1.54	0.00
	Goulburn Base	0.62	1.71	2.61	0.71	1.85
	Moruya	2.47	2.78	2.01	0.85	0.00
	Queanbeyan	0.51	0.43	2.37	1.33	1.81
	Other hospitals	3.26	0.00	4.41	1.37	1.41
TOTAL	1.60	1.29	2.23	1.17	1.16	
Murrumbidgee	Griffith Base	1.09	1.93	1.55	1.19	0.00
	Wagga Wagga Base	2.81	2.16	2.41	2.61	1.01
	Other hospitals	1.48	2.04	1.67	0.00	4.78
	TOTAL	1.83	2.05	1.89	1.32	1.99
Western NSW	Dubbo Base	1.06	2.95	2.57	2.49	2.20
	Mudgee	2.94	0.74	1.75	1.77	0.00
	Bathurst Base	2.69	2.58	1.76	1.15	0.81
	Orange Base	1.17	3.26	1.49	0.99	1.02
	Other hospitals	1.41	1.83	0.53	0.96	0.00
	TOTAL	1.59	2.57	1.78	1.55	1.11
Far West	Broken Hill Base	2.74	1.15	5.26	3.26	4.88
	TOTAL	2.74	1.15	5.26	3.26	4.88
Private Hospitals	Mater, North Sydney	1.54	1.68	2.15	2.02	1.21
	North Shore Private	1.82	1.39	1.62	1.54	0.93
	Sydney Adventist	0.89	1.67	1.79	1.39	2.17
	North Gosford Private	1.88	0.00	0.49	0.53	0.98
	Hurstville Community	1.98	1.01	0.89	1.30	1.52
	Kareena Private	0.00	0.62	2.20	0.00	0.58
	St. George Private	3.60	0.62	2.11	2.43	2.96
	Prince of Wales Private	1.66	1.62	1.79	0.86	1.86
	Norwest Private	1.07	1.45	1.50	1.13	1.44
	Sydney Southwest Private	1.91	1.14	3.00	1.63	0.35
	Nepean Private	1.47	0.41	0.44	0.50	0.00
	Westmead Private	2.51	1.49	2.03	1.56	2.60
	Figtree Private	0.46	0.92	0.00	3.82	2.44
	Newcastle Private	2.27	3.18	1.06	0.81	0.96
	Calvary, Wagga Wagga	0.84	0.00	0.00	0.00	0.00
	Other hospitals	1.02	2.90	0.00	0.00	0.00
TOTAL	1.72	1.52	1.62	1.39	1.53	
TOTAL NSW^b	1.78	1.69	1.62	1.60	1.58	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

^a Hospitals with more than 200 births in 2015 are identified individually.

^b Total NSW includes births at home assisted by independent midwives.

Apgar score

Indicator 9.1

Definition: Total number of term babies born with an Apgar score of less than 7 at 5 minutes post delivery as a percentage of the total number of term babies born.

Table 73 shows information for hospitals where at least 200 babies were born in 2015, totals for hospitals for each local health district, and the NSW total.

TABLE 73: 9.1 APGAR SCORE OF 7 OR LESS IN TERM BABIES BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2011–2015#

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Sydney	Canterbury	1.69	0.92	1.51	1.43	1.40
	Royal Prince Alfred	1.86	1.68	2.01	2.08	1.94
	TOTAL	1.82	1.49	1.88	1.91	1.79
South Western Sydney	Fairfield	1.54	0.99	0.96	0.72	1.26
	Liverpool	0.78	1.54	1.48	1.38	1.12
	Campbelltown	1.55	1.63	1.69	1.41	1.32
	Bankstown-Lidcombe	0.68	0.65	0.53	0.73	0.93
	Bowral	0.60	0.45	1.31	1.54	0.26
	TOTAL	1.10	1.22	1.24	1.14	1.13
	South Eastern Sydney	St. George	1.28	1.25	1.69	1.82
Sutherland		1.08	1.38	2.75	0.93	0.88
Royal Hospital for Women		1.76	2.04	1.88	1.98	1.63
Other hospitals		0.00	0.00	0.00	0.00	0.00
TOTAL		1.49	1.67	1.97	1.74	1.71
Illawarra Shoalhaven	Shoalhaven	1.28	1.35	1.08	1.55	1.17
	Wollongong	1.22	1.51	1.88	1.21	1.03
	Other hospitals	0.82	0.00	1.08	0.00	0.00
	TOTAL	1.22	1.41	1.64	1.28	1.06
Western Sydney	Auburn	0.77	0.50	1.10	0.54	0.40
	Blacktown	0.83	0.71	0.69	0.82	0.62
	Westmead	0.83	0.83	0.95	0.97	1.51
	TOTAL	0.82	0.74	0.89	0.86	1.08
Nepean Blue Mountains	Blue Mountains	0.52	0.95	0.45	0.00	1.61
	Nepean	0.79	0.74	0.64	0.92	1.19
	Hawkesbury	0.48	1.38	0.79	0.83	0.28
	TOTAL	0.75	0.87	0.74	0.90	1.17
Northern Sydney	Hornsby	0.52	1.70	1.41	1.64	1.56
	Manly	1.15	0.82	1.38	1.76	0.76
	Mona Vale	0.00	0.63	1.14	1.72	1.24
	Royal North Shore	0.69	0.80	1.53	1.58	1.39
	Other hospitals	0.00	0.74	0.78	0.00	0.81
	TOTAL	0.75	1.02	1.41	1.61	1.28
Central Coast	Gosford	2.58	2.42	2.34	1.57	1.76
	Other hospitals	0.00	0.57	1.20	0.00	0.00
	TOTAL	2.41	2.29	2.27	1.49	1.67
Hunter New England	Armidale	1.23	1.16	1.67	1.57	1.06
	Inverell	0.00	0.00	0.38	0.40	0.00
	Tamworth Base	1.38	1.85	2.37	2.25	2.83
	Manning Base	1.83	2.45	2.60	1.82	2.59
	Maitland	1.33	1.48	1.60	2.40	2.16
	Muswellbrook	0.44	2.00	1.12	1.03	1.49
	John Hunter	2.32	2.28	2.15	2.67	1.83
	Other hospitals	0.69	1.85	0.73	0.97	0.87
	TOTAL	1.63	1.93	1.84	2.16	1.87
	Northern NSW	Grafton Base	2.00	1.70	2.66	1.44
Lismore Base		0.74	1.57	1.65	1.21	1.82
Tweed Heads		1.44	1.90	1.81	1.68	1.36

Local Health District–Hospital		2011	2012	2013	2014	2015
		%	%	%	%	%
Other hospitals		0.28	0.25	0.31	0.35	0.00
	TOTAL	1.14	1.57	1.71	1.35	1.38
Mid North Coast	Coffs Harbour	0.85	1.70	1.75	1.81	1.74
	Kempsey	1.79	1.60	1.27	4.82	3.64
	Port Macquarie Base	2.17	1.72	1.59	1.82	1.48
	Other hospitals	0.00	0.00	0.00	0.00	0.00
	TOTAL	1.43	1.65	1.58	2.14	1.84
Southern NSW	Bega	0.84	1.82	1.46	0.84	0.94
	Goulburn Base	1.04	1.88	1.09	2.32	2.41
	Moruya	2.05	1.57	0.70	0.76	1.05
	Queanbeyan	1.11	0.24	0.94	1.21	1.74
	TOTAL	1.11	1.25	1.12	1.29	1.70
Murrumbidgee	Griffith Base	1.25	0.86	1.77	2.23	1.57
	Wagga Wagga Base	2.80	1.91	2.74	3.02	2.05
	Other hospitals	1.47	0.82	0.87	0.97	1.48
	TOTAL	1.92	1.25	1.86	2.13	1.75
Western NSW	Dubbo Base	0.90	1.15	1.66	1.46	1.23
	Mudgee	0.89	0.40	1.27	1.26	2.07
	Bathurst Base	1.40	1.67	1.63	1.85	2.00
	Orange Base	1.83	1.12	1.30	1.49	1.94
	Other hospitals	1.93	1.37	0.22	1.78	1.20
	TOTAL	1.38	1.20	1.32	1.56	1.62
Far West	Broken Hill Base	0.51	1.64	3.24	2.24	1.42
	TOTAL	0.51	1.64	3.24	2.24	1.42
Private Hospitals	Mater, North Sydney	0.50	0.39	0.30	0.32	0.38
	North Shore Private	0.37	0.61	0.46	0.57	0.66
	Sydney Adventist	0.41	0.94	0.93	1.19	1.07
	North Gosford Private	0.80	0.66	0.40	0.14	0.93
	Hurstville Community	0.67	0.67	0.99	1.01	1.19
	Kareena Private	1.11	1.24	0.41	1.15	1.25
	St. George Private	0.58	0.87	1.29	0.54	0.75
	Prince of Wales Private	0.58	0.50	0.61	0.54	0.36
	Norwest Private	0.37	0.37	0.57	0.25	0.36
	Sydney Southwest Private	0.65	1.05	0.62	0.42	0.53
	Nepean Private	0.12	0.00	0.39	0.13	0.40
	Westmead Private	0.79	0.70	0.65	0.78	0.77
	Figtree Private	0.42	0.73	0.55	0.84	0.23
	Newcastle Private	0.28	0.55	0.56	0.39	0.71
	Calvary, Wagga Wagga	1.63	1.02	0.92	0.65	0.90
	Other hospitals	0.00	1.42	0.00	0.00	0.00
TOTAL	0.54	0.65	0.63	0.58	0.65	
TOTAL NSW*	1.11	1.19	1.29	1.28	1.26	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
 # Hospitals with more than 200 births in 2015 are identified individually.
 * Total NSW includes births at home assisted by independent midwives.

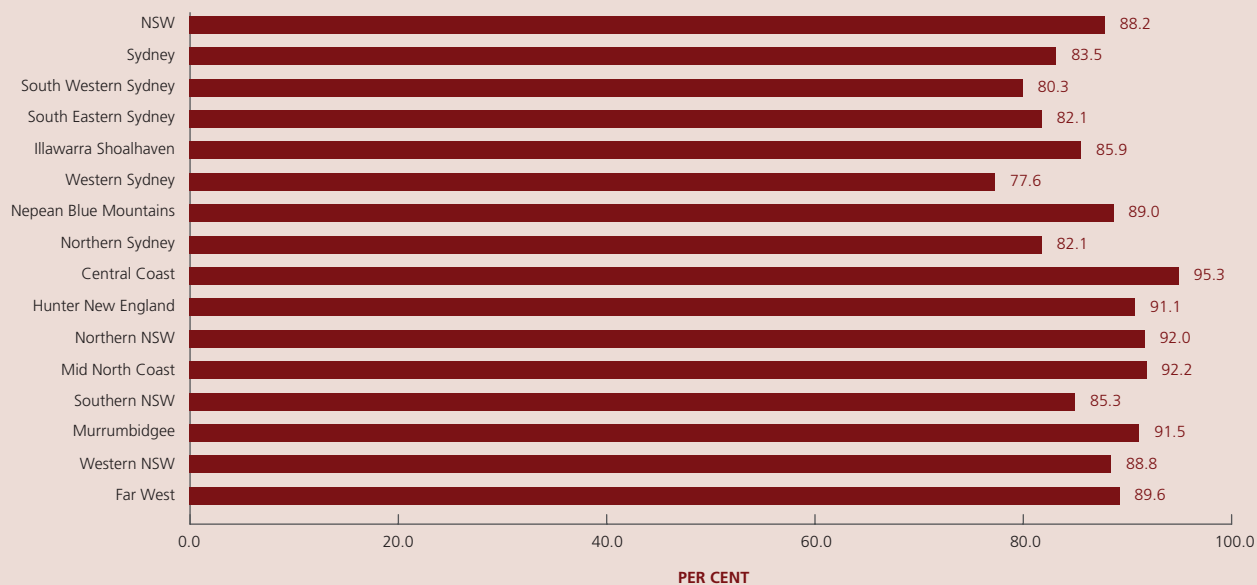
8. ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS AND BABIES

Reporting of Aboriginality

Aboriginal mothers and babies are under-reported on the Perinatal Data Collection. One method of assessing the extent of under-reporting and monitoring changes over time is to compare the reporting of Aboriginal mothers on the Perinatal Data Collection with reporting on other data collections. We used Enhanced Reporting of Aboriginality information on the Maternal and Child Health Register (see Methods) to give a “best estimate” of the true numbers of Aboriginal mothers and babies in NSW. We compared this best estimate with the actual numbers of Aboriginal mothers and babies born to Aboriginal mothers reported on the Perinatal Data Collection and calculated the level of reporting of Aboriginal mothers and babies for NSW and individual local health districts.

The estimated percentage of Aboriginal or Torres Strait Islander mothers in NSW that were reported to the Perinatal Data Collection was 80.7% in 2013, 85.7% in 2014 and 88.2% in 2015. In 2015, reporting varied markedly between Local Health Districts, ranging from 77.6% in the Western Sydney Local Health District to 95.3% in the Central Coast Local Health District, with reporting generally better in rural compared to urban areas (Figure 2, Table 74).

Figure 2: Estimated level of reporting of births to Aboriginal or Torres Strait Islander mothers by Local Health District of residence, NSW 2015



Source: NSW Perinatal Data Collection and the Maternal and Child Health Register (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

TABLE 74: ABORIGINAL OR TORRES STRAIT ISLANDER MOTHERS AND ESTIMATED LEVEL OF REPORTING BY YEAR OF BIRTH AND LOCAL HEALTH DISTRICT OF RESIDENCE 2013–2015

Year of birth–Local health district		PDC mothers	Estimated Aboriginal mothers	Level of reporting
		No.	No.	%
2013	Sydney	90	113	79.6
	South Western Sydney	199	301	66.1
	South Eastern Sydney	92	122	75.4
	Illawarra Shoalhaven	227	276	82.2
	Western Sydney	256	333	76.9
	Nepean Blue Mountains	193	254	76.0
	Northern Sydney	28	49	57.1
	Central Coast	188	225	83.6
	Hunter New England	893	1063	84.0
	Northern NSW	257	307	83.7
	Mid North Coast	228	271	84.1
	Southern NSW	64	83	77.1
	Murrumbidgee	160	199	80.4
	Western NSW	548	643	85.2
	Far West	46	53	86.8
	Other–not stated	23	33	69.7
	NSW	3492	4325	80.7
2014	Sydney	120	134	89.6
	South Western Sydney	235	330	71.2
	South Eastern Sydney	99	126	78.6
	Illawarra Shoalhaven	212	255	83.1
	Western Sydney	301	379	79.4
	Nepean Blue Mountains	196	236	83.1
	Northern Sydney	29	43	67.4
	Central Coast	217	232	93.5
	Hunter New England	932	1061	87.8
	Northern NSW	235	261	90.0
	Mid North Coast	251	275	91.3
	Southern NSW	86	98	87.8
	Murrumbidgee	190	226	84.1
	Western NSW	583	648	90.0
	Far West	46	51	90.2
	Other–not stated	23	27	85.2
	NSW	3756	4383	85.7
2015	Sydney	111	133	83.5
	South Western Sydney	237	295	80.3
	South Eastern Sydney	110	134	82.1
	Illawarra Shoalhaven	220	256	85.9
	Western Sydney	246	317	77.6
	Nepean Blue Mountains	243	273	89.0
	Northern Sydney	32	39	82.1
	Central Coast	222	233	95.3
	Hunter New England	975	1070	91.1
	Northern NSW	241	262	92.0
	Mid North Coast	248	269	92.2
	Southern NSW	93	109	85.3
	Murrumbidgee	172	188	91.5
	Western NSW	610	687	88.8
	Far West	43	48	89.6
	Other–not stated	19	20	95.0
	NSW	3823	4334	88.2

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

Table 75 shows the number of babies born to Aboriginal or Torres Strait Islander mothers as reported to the Perinatal Data Collection and the number of Aboriginal or Torres Strait Islander babies born in NSW according to Enhanced Reporting of Aboriginality information on the Maternal and Child Health Register (see Methods). The estimated percentage of Aboriginal or Torres Strait Islander babies born in NSW that were reported to the Perinatal Data Collection was 67.8% in 2015. Reporting ranged from 52.5% in the Northern Sydney Local Health District to 87.8% in the Far West Local Health District. There are therefore a substantial number of Aboriginal babies with non-Aboriginal or Torres Strait Islander mothers who are not represented in the numbers reported in this chapter.

Numbers of Aboriginal mothers and babies born to Aboriginal mothers shown in the tables and figures in this chapter are based on the actual numbers reported to the Perinatal Data Collection. The true numbers of Aboriginal mothers and babies are likely to be higher than shown and should therefore be interpreted with caution.

TABLE 75: ABORIGINAL OR TORRES STRAIT ISLANDER BABIES AND ESTIMATED LEVEL OF REPORTING BY YEAR OF BIRTH AND LOCAL HEALTH DISTRICT OF RESIDENCE 2013–2015

Year of birth–Local health district		PDC babies [#]	Estimated Aboriginal babies [#]	Level of reporting
		No.	No.	%
2013	Sydney	92	148	62.2
	South Western Sydney	200	364	54.9
	South Eastern Sydney	94	157	59.9
	Illawarra Shoalhaven	229	395	58.0
	Western Sydney	262	405	64.7
	Nepean Blue Mountains	198	285	69.5
	Northern Sydney	29	49	59.2
	Central Coast	190	340	55.9
	Hunter New England	908	1532	59.3
	Northern NSW	260	358	72.6
	Mid North Coast	233	334	69.8
	Southern NSW	64	115	55.7
	Murrumbidgee	161	254	63.4
	Western NSW	553	770	71.8
	Far West	46	62	74.2
	Other–not stated	23	49	46.9
NSW	3542	5617	63.1	
2014	Sydney	122	171	71.3
	South Western Sydney	238	409	58.2
	South Eastern Sydney	99	177	55.9
	Illawarra Shoalhaven	213	418	51.0
	Western Sydney	305	404	75.5
	Nepean Blue Mountains	199	311	64.0
	Northern Sydney	30	63	47.6
	Central Coast	217	314	69.1
	Hunter New England	948	1561	60.7
	Northern NSW	238	301	79.1
	Mid North Coast	256	358	71.5
	Southern NSW	87	133	65.4
	Murrumbidgee	193	281	68.7
	Western NSW	592	791	74.8
	Far West	46	54	85.2
	Other–not stated	24	37	64.9
NSW	3808	5785	65.8	
2015	Sydney	111	154	72.1
	South Western Sydney	246	408	60.3
	South Eastern Sydney	110	193	57.0
	Illawarra Shoalhaven	223	375	59.5
	Western Sydney	252	356	70.8
	Nepean Blue Mountains	246	359	68.5
	Northern Sydney	32	61	52.5
	Central Coast	223	338	66.0
	Hunter New England	990	1559	63.5
	Northern NSW	242	299	80.9
	Mid North Coast	254	340	74.7
	Southern NSW	94	138	68.1
	Murrumbidgee	174	262	66.4
	Western NSW	612	790	77.5
	Far West	43	49	87.8
	Other–not stated	19	29	65.5
NSW	3872	5711	67.8	

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

[#] PDC babies: babies recorded on the PDC as being born to Aboriginal mothers. Estimated Aboriginal babies: babies born in NSW according to Enhanced Reporting of Aboriginality information on the Maternal and Child Health Register.

Trends in births

Between 2011 and 2015, the number of reported births to Aboriginal or Torres Strait Islander mothers rose from 3,021 to 3,872, representing 3.1% and 4.0% respectively of all babies born in NSW. In 2015, 3,735 babies were born to Aboriginal mothers, 43 babies were born to Torres Strait Islander mothers and 94 babies were born to mothers of both Aboriginal and Torres Strait Islander background (Table 76).

TABLE 76: ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS AND BABIES, NSW 2011–2015[#]

Aboriginal and Torres Strait Islander	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Confinements										
Aboriginal but not Torres Strait Islander	2842	95.5	3218	96.1	3359	96.2	3596	95.7	3686	96.4
Torres Strait Islander but not Aboriginal	49	1.6	49	1.5	53	1.5	51	1.4	43	1.1
Both Aboriginal and Torres Strait Islander	84	2.8	81	2.4	80	2.3	109	2.9	94	2.5
TOTAL	2975	100.0	3348	100.0	3492	100.0	3756	100.0	3823	100.0
Births										
Aboriginal but not Torres Strait Islander	2883	95.4	3269	96.2	3406	96.2	3647	95.8	3735	96.5
Torres Strait Islander but not Aboriginal	51	1.7	49	1.4	55	1.6	51	1.3	43	1.1
Both Aboriginal and Torres Strait Islander	87	2.9	81	2.4	81	2.3	110	2.9	94	2.4
TOTAL	3021	100.0	3399	100.0	3542	100.0	3808	100.0	3872	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

[#] Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers and babies are higher than shown (Tables 74 and 75).

Plurality

Between 2011 and 2015, multiple pregnancies (twins, triplets etc.) were reported for about 1.5% of all pregnancies. In 2015, 2.5% of babies born to Aboriginal or Torres Strait Islander mothers were twins (Table 77).

TABLE 77: ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS AND BABIES BY PLURALITY, NSW 2011–2015[#]

Plurality	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Confinements										
Singleton	2927	98.4	3298	98.5	3442	98.6	3705	98.6	3774	98.7
Twins	48	1.6	49	1.5	50	1.4	50	1.3	49	1.3
Triplets	0	0.0	1	0.0	0	0.0	1	0.0	0	0.0
TOTAL	2975	100.0	3348	100.0	3492	100.0	3756	100.0	3823	100.0
Births										
Singleton	2927	96.9	3298	97.0	3442	97.2	3705	97.3	3774	97.5
Twins	94	3.1	98	2.9	100	2.8	100	2.6	98	2.5
Triplets	0	0.0	3	0.1	0	0.0	3	0.1	0	0.0
TOTAL	3021	100.0	3399	100.0	3542	100.0	3808	100.0	3872	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

[#] Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers and babies are higher than shown (Tables 74 and 75).

Previous pregnancies

In 2015, just over one-third of Aboriginal or Torres Strait Islander mothers gave birth for the first time, 58.9% of mothers reported between 1 and 4 previous births and 6.5% of mothers had previously given birth to 5 or more babies (Table 78). Between 2011 and 2015, there has been a decrease in the percentage of mothers who had previously given birth to 5 or more babies from 7.7% to 6.5%.

TABLE 78: PREVIOUS PREGNANCIES AMONG ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2011–2015[#]

No. previous pregnancies (>20 weeks gestation)	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
0	1085	36.5	1156	34.5	1235	35.4	1241	33.0	1322	34.6
1–4	1658	55.7	1981	59.2	2019	57.8	2262	60.2	2251	58.9
5+	228	7.7	211	6.3	237	6.8	252	6.7	248	6.5
Not stated	4	0.1	0	0.0	1	0.0	1	0.0	2	0.1
TOTAL	2975	100.0	3348	100.0	3492	100.0	3756	100.0	3823	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

[#] Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 74).

Maternal age

The percentage of Aboriginal or Torres Strait Islander mothers who were teenagers fell from 19.0% in 2011 to 15.4% in 2015. The percentage of mothers giving birth at 35 years of age or more has increased slightly from 8.6% in 2011 to 8.7% in 2015 (Table 79).

TABLE 79: AGE OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2011–2015[#]

Maternal age (years)	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
12–19	565	19.0	623	18.6	615	17.6	592	15.8	587	15.4
20–34	2154	72.4	2451	73.2	2546	72.9	2850	75.9	2905	76.0
35+	256	8.6	272	8.1	331	9.5	314	8.4	331	8.7
Not stated	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0
TOTAL	2975	100.0	3348	100.0	3492	100.0	3756	100.0	3823	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

[#] Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 74).

Local Health District of residence

The reported number of Aboriginal or Torres Strait Islander mothers who gave birth in 2015 ranged from 32 in the Northern Sydney Local Health District to 975 in the Hunter New England Local Health District (Table 80). The proportion of Aboriginal or Torres Strait Islander mothers who were teenagers varied from 8.2% in the South Eastern Sydney Local Health District to 22.6% in the Southern NSW Local Health District (Table 81).

TABLE 80: LOCAL HEALTH DISTRICT OF RESIDENCE OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2011–2015[#]

Local Health District	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	84	2.8	109	3.3	90	2.6	120	3.2	111	2.9
South Western Sydney	180	6.1	208	6.2	199	5.7	235	6.3	237	6.2
South Eastern Sydney	81	2.7	70	2.1	92	2.6	99	2.6	110	2.9
Illawarra Shoalhaven	203	6.8	213	6.4	227	6.5	212	5.6	220	5.8
Western Sydney	197	6.6	226	6.8	256	7.3	301	8.0	246	6.4
Nepean Blue Mountains	145	4.9	141	4.2	193	5.5	196	5.2	243	6.4
Northern Sydney	18	0.6	23	0.7	28	0.8	29	0.8	32	0.8
Central Coast	137	4.6	148	4.4	188	5.4	217	5.8	222	5.8
Hunter New England	734	24.7	867	25.9	893	25.6	932	24.8	975	25.5
Northern NSW	210	7.1	222	6.6	257	7.4	235	6.3	241	6.3
Mid North Coast	190	6.4	224	6.7	228	6.5	251	6.7	248	6.5
Southern NSW	72	2.4	88	2.6	64	1.8	86	2.3	93	2.4
Murrumbidgee	167	5.6	149	4.5	160	4.6	190	5.1	172	4.5
Western NSW	494	16.6	592	17.7	548	15.7	583	15.5	610	16.0
Far West	42	1.4	46	1.4	46	1.3	46	1.2	43	1.1
Other—not stated	21	0.7	22	0.7	23	0.7	24	0.6	20	0.5
TOTAL	2975	100.0	3348	100.0	3492	100.0	3756	100.0	3823	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

[#] Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown. The level of under-reporting varies between Local Health Districts (Table 74).

TABLE 81: LOCAL HEALTH DISTRICT OF RESIDENCE OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY AGE, NSW 2015^a

Local Health District	Maternal age (Years)					
	Under 20		20-plus		TOTAL	
	No.	%	No.	%	No.	%
Sydney	10	9.0	101	91.0	111	100.0
South Western Sydney	35	14.8	202	85.2	237	100.0
South Eastern Sydney	9	8.2	101	91.8	110	100.0
Illawarra Shoalhaven	33	15.0	187	85.0	220	100.0
Western Sydney	34	13.8	212	86.2	246	100.0
Nepean Blue Mountains	39	16.0	204	84.0	243	100.0
Northern Sydney	–	–	–	–	32	100.0
Central Coast	21	9.5	201	90.5	222	100.0
Hunter New England	160	16.4	815	83.6	975	100.0
Northern NSW	38	15.8	203	84.2	241	100.0
Mid North Coast	36	14.5	212	85.5	248	100.0
Southern NSW	21	22.6	72	77.4	93	100.0
Murrumbidgee	24	14.0	148	86.0	172	100.0
Western NSW	113	18.5	497	81.5	610	100.0
Far West	9	20.9	34	79.1	43	100.0
Other—not stated	–	–	–	–	20	100.0
TOTAL	587	15.4	3236	84.6	3823	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
^a Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown. The level of under-reporting varies between Local Health Districts (Table 74). Data not shown for cell counts less than five.

Duration of pregnancy at first antenatal visit

Between 2011 and 2015, the proportion of Aboriginal or Torres Strait Islander mothers who commenced antenatal care at less than 14 weeks gestation decreased from 61.2% to 55.6%, and the proportion that commenced antenatal care at less than 20 weeks gestation decreased slightly from 76.9% to 76.0% (Table 82).

Since 2011, rates of commencement of antenatal care at less than 14 weeks gestation have fallen substantially due to the introduction of a stricter definition of “antenatal care”. Up to 2010, the question asked was ‘Duration of pregnancy at first antenatal visit’. From 2011, the question asked is: ‘Duration of pregnancy at first comprehensive booking or assessment by clinician’. The new question has more specifically defined the type of visit to be reported. This has resulted in a substantial decrease in the reported proportion of mothers who commenced antenatal care before 14 weeks gestation between 2010 and 2011 and, as 2012 was the first year the question was being consistently asked, this has also resulted in a decrease in the reported proportion between 2011 and 2012.

In 2015, 55.6% of Aboriginal or Torres Strait Islander mothers attended antenatal care at less than 14 weeks gestation and 76.0% attended at less than 20 weeks gestation. This compares with 64.7% of non-Aboriginal or Torres Strait Islander mothers who commenced antenatal care at less than 14 weeks gestation, and 87.8% who commenced antenatal care at less than 20 weeks gestation in 2015.

In 2015, the proportion of Aboriginal or Torres Strait Islander mothers who commenced antenatal care at less than 14 weeks gestation varied from 28.8% in the Central Coast Local Health District to 74.6% in the Mid North Coast Local Health District (Table 83).

TABLE 82: DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT AMONG ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2011–2015^a

Duration of pregnancy (weeks)	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
0–13	1822	61.2	1707	51.0	1740	49.8	2044	54.4	2124	55.6
14–19	467	15.7	703	21.0	798	22.9	788	21.0	781	20.4
20+	612	20.6	879	26.3	915	26.2	860	22.9	850	22.2
Not stated	74	2.5	59	1.8	39	1.1	64	1.7	68	1.8
TOTAL	2975	100.0	3348	100.0	3492	100.0	3756	100.0	3823	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
^a Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 74).

TABLE 83: DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT AMONG ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015*

Local Health District	Duration of pregnancy at first antenatal visit (weeks)								TOTAL	
	0-13		14-19		20+		Not stated			
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	58	52.3	24	21.6	26	23.4	3	2.7	111	100.0
South Western Sydney	125	52.7	63	26.6	44	18.6	5	2.1	237	100.0
South Eastern Sydney	48	43.6	44	40.0	16	14.5	2	1.8	110	100.0
Illawarra Shoalhaven	107	48.6	54	24.5	57	25.9	2	0.9	220	100.0
Western Sydney	82	33.3	71	28.9	84	34.1	9	3.7	246	100.0
Nepean Blue Mountains	109	44.9	72	29.6	59	24.3	3	1.2	243	100.0
Northern Sydney	16	50.0	12	37.5	-	-	0	0.0	32	100.0
Central Coast	64	28.8	79	35.6	78	35.1	1	0.5	222	100.0
Hunter New England	666	68.3	135	13.8	162	16.6	12	1.2	975	100.0
Northern NSW	153	63.5	37	15.4	45	18.7	6	2.5	241	100.0
Mid North Coast	185	74.6	25	10.1	35	14.1	3	1.2	248	100.0
Southern NSW	41	44.1	23	24.7	28	30.1	1	1.1	93	100.0
Murrumbidgee	90	52.3	27	15.7	49	28.5	6	3.5	172	100.0
Western NSW	337	55.2	107	17.5	152	24.9	14	2.3	610	100.0
Far West	31	72.1	6	14.0	5	11.6	1	2.3	43	100.0
Other-not stated	12	60.0	-	-	6	30.0	0	0.0	20	100.0
TOTAL	2124	55.6	781	20.4	850	22.2	68	1.8	3823	100.0

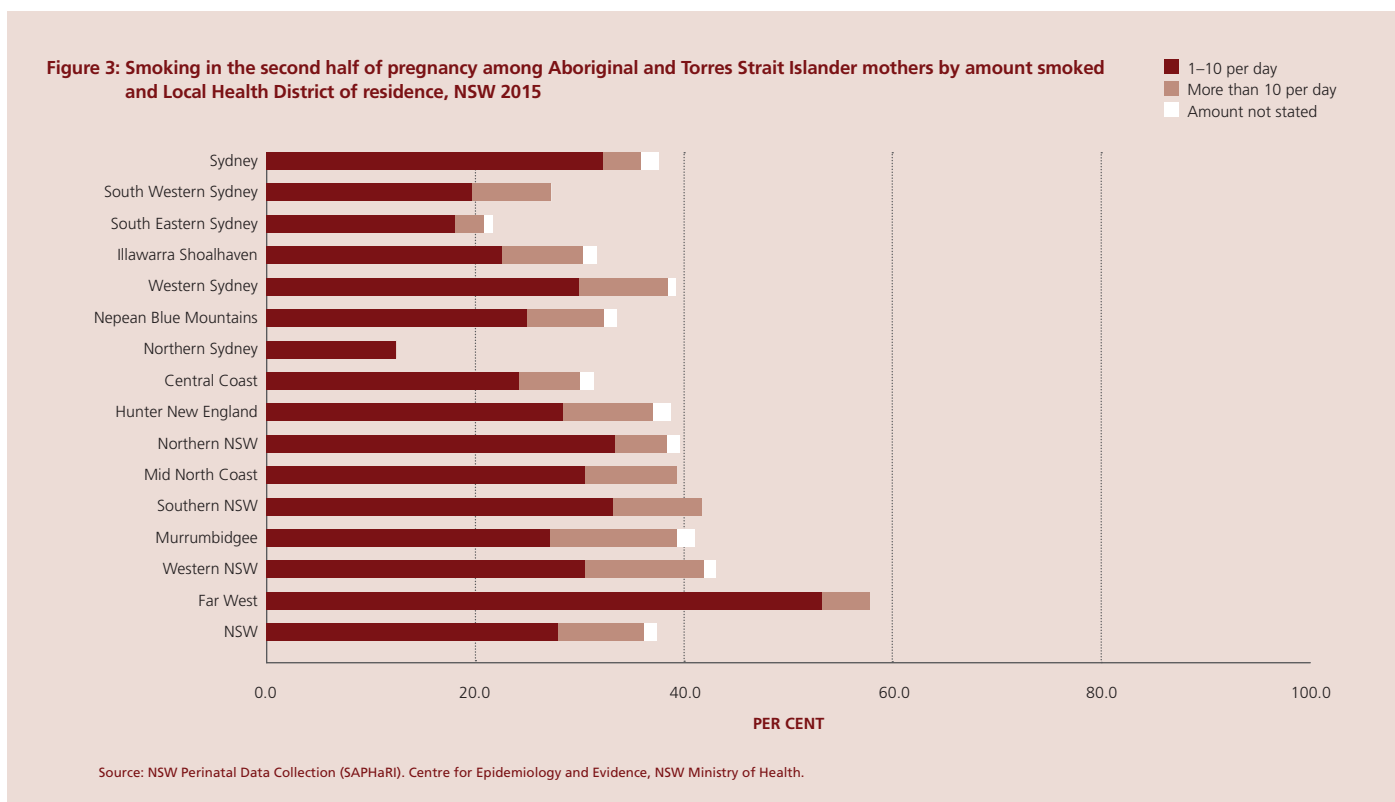
Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown. The level of under-reporting varies between Local Health Districts (Table 74). Data not shown for cell counts less than five.

Smoking in pregnancy

In 2015, 45.0% of Aboriginal or Torres Strait Islander mothers reported smoking at some time during pregnancy, compared to 52.2% in 2011. This compares with 7.4% of non-Aboriginal or Torres Strait Islander mothers who reported smoking at some time during pregnancy in 2015.

Smoking in the second half of pregnancy poses the greatest risk to the health of both mother and baby. In 2015, 37.5% of Aboriginal or Torres Strait Islander mothers reported smoking in the second half of pregnancy. This percentage varied from 12.5% in the Northern Sydney Local Health District to 58.1% in the Far West Local Health District (Figure 3).



Medical conditions and obstetric complications

In 2015, there were similar rates of diabetes mellitus and chronic hypertension reported among Aboriginal or Torres Strait Islander mothers compared with non-Aboriginal or Torres Strait Islander mothers. However, the rate of gestational diabetes was lower among Aboriginal or Torres Strait Islander mothers (7.8%) than non-Aboriginal or Torres Strait Islander mothers (8.4%). Overall, the rate of hypertension in pregnancy was higher in Aboriginal or Torres Strait Islander mothers (7.4%) compared with non-Aboriginal or Torres Strait Islander mothers (5.3%) (Table 84). The number of Aboriginal or Torres Strait Islander mothers with medical conditions and obstetric complications reported to the Perinatal Data Collection is low, even after taking into account under-reporting of Aboriginal mothers. The low numbers may be due to under-detection and/or under-reporting.

TABLE 84: MEDICAL CONDITIONS AND OBSTETRIC COMPLICATIONS AMONG ABORIGINAL AND NON-ABORIGINAL MOTHERS, NSW 2015^a

Condition	Aboriginal or Torres Strait Islander		Non-Aboriginal or Torres Strait Islander		TOTAL	
	No.	%	No.	%	No.	%
Diabetes mellitus	60	1.6	1338	1.5	1398	1.5
Gestational diabetes	297	7.8	7621	8.4	7918	8.3
Chronic hypertension	31	0.8	700	0.8	731	0.8
Pre-eclampsia	99	2.6	1364	1.5	1463	1.5
Gestational hypertension	153	4.0	2756	3.0	2909	3.1
TOTAL	3823	100.0	91166	100.0	94989	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

^a Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 74).

Labour and birth

The rate of spontaneous onset of labour among Aboriginal or Torres Strait Islander mothers fell from 60.8% in 2011 to 53.3% in 2015, while the rate of induction of labour increased from 26.0% to 31.4% (Table 85). The rate of spontaneous onset of labour was slightly higher among Aboriginal or Torres Strait Islander compared to the rate of 49.5% reported among non-Aboriginal or Torres Strait Islander mothers in 2015.

Between 2011 and 2015, the rate of normal vaginal birth fell from 66.9% to 65.9%. The caesarean section rate rose from 25.7% to 27.0% (Table 86). The rate of instrumental delivery decreased slightly from 6.9% to 6.6%, and there was also a slight drop in the rate of vaginal breech births from 0.5% to 0.4%.

TABLE 85: LABOUR ONSET FOR ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2011–2015^a

Labour Onset	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Spontaneous	1809	60.8	1984	59.3	1993	57.1	2028	54.0	2038	53.3
Induced	774	26.0	891	26.6	996	28.5	1152	30.7	1202	31.4
No labour [*]	391	13.1	472	14.1	503	14.4	575	15.3	583	15.2
Not stated	1	0.0	1	0.0	0	0.0	1	0.0	0	0.0
TOTAL	2975	100.0	3348	100.0	3492	100.0	3756	100.0	3823	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

^a Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 74).

^{*} No labour indicates elective caesarean section..

TABLE 86: TYPE OF BIRTH AMONG ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2011–2015^a

Type of birth	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Normal vaginal	1989	66.9	2256	67.4	2332	66.8	2456	65.4	2519	65.9
Forceps	63	2.1	82	2.4	102	2.9	99	2.6	94	2.5
Vacuum extraction	141	4.7	143	4.3	143	4.1	145	3.9	160	4.2
Vaginal breech	14	0.5	22	0.7	26	0.7	16	0.4	16	0.4
Elective caesarean section	391	13.1	472	14.1	503	14.4	575	15.3	583	15.2
Emergency caesarean section [*]	375	12.6	372	11.1	386	11.1	464	12.4	451	11.8
Not stated	2	0.1	1	0.0	0	0.0	1	0.0	0	0.0
TOTAL	2975	100.0	3348	100.0	3492	100.0	3756	100.0	3823	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

^a Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 74).

^{*} Emergency caesarean section includes caesarean section where the onset of labour was not stated.

Birth weight

Since 2011, the rate of low birth weight (less than 2,500 grams) in Aboriginal or Torres Strait Islander babies has been 11% or greater and was 11.3% in 2015 (Table 87). This is higher than the rate for babies born to non-Aboriginal or Torres Strait Islander mothers, which was 6.4% in 2015. In 2015, the largest number of low birth weight babies was in the Hunter New England Local Health District (Table 88).

TABLE 87: WEIGHT OF BABIES BORN TO ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2011–2015#

Birth weight (grams)	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
Less than 1,000	42	1.4	45	1.3	33	0.9	42	1.1	29	0.7
1,000–1,499	17	0.6	24	0.7	36	1.0	37	1.0	45	1.2
1,500–2,499	314	10.4	305	9.0	334	9.4	350	9.2	363	9.4
2,500+	2643	87.5	3022	88.9	3136	88.5	3374	88.6	3431	88.6
Not stated	5	0.2	3	0.1	3	0.1	5	0.1	4	0.1
TOTAL	3021	100.0	3399	100.0	3542	100.0	3808	100.0	3872	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of babies are higher than shown (Table 74).

TABLE 88: WEIGHT OF BABIES BORN TO ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015#

Local Health District	Birth Weight (grams)							
	< 2,500		2,500+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%
Sydney	9	8.1	102	91.9	0	0.0	111	100.0
South Western Sydney	40	16.3	206	83.7	0	0.0	246	100.0
South Eastern Sydney	8	7.3	102	92.7	0	0.0	110	100.0
Illawarra Shoalhaven	34	15.2	189	84.8	0	0.0	223	100.0
Western Sydney	35	13.9	217	86.1	0	0.0	252	100.0
Nepean Blue Mountains	31	12.6	215	87.4	0	0.0	246	100.0
Northern Sydney	–	–	32	100.0	–	–	32	100.0
Central Coast	20	9.0	203	91.0	0	0.0	223	100.0
Hunter New England	111	11.2	879	88.8	0	0.0	990	100.0
Northern NSW	21	8.7	221	91.3	0	0.0	242	100.0
Mid North Coast	28	11.0	225	88.6	1	0.4	254	100.0
Southern NSW	–	–	92	97.9	–	–	94	100.0
Murrumbidgee	21	12.1	153	87.9	0	0.0	174	100.0
Western NSW	68	11.1	542	88.6	2	0.3	612	100.0
Far West	5	11.6	38	88.4	0	0.0	43	100.0
Other—not stated	–	–	15	75.0	–	–	20	100.0
TOTAL	437	11.3	3431	88.6	4	0.1	3872	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of babies are higher than shown. The level of under-reporting varies between Local Health Districts (Table 75). Data not shown for cell counts less than five.

Gestational age

Since 2011, over 12% of Aboriginal or Torres Strait Islander babies have been premature (less than 37 weeks gestation) (Table 89). The rate of prematurity was 12.7% in 2015, compared with a rate of 7.7% for babies born to non-Aboriginal or Torres Strait Islander mothers. In 2015, the largest number of premature babies was in the Hunter New England Local Health District (Table 90).

TABLE 89: GESTATIONAL AGE OF BABIES BORN TO ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2011–2015#

Gestational age (weeks)	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
< 28	44	1.5	45	1.3	35	1.0	39	1.0	36	0.9
28–31	40	1.3	38	1.1	44	1.2	54	1.4	60	1.5
32–36	297	9.8	367	10.8	369	10.4	400	10.5	396	10.2
37–41	2620	86.7	2927	86.1	3076	86.8	3299	86.6	3361	86.8
42+	18	0.6	21	0.6	17	0.5	15	0.4	17	0.4
Not stated	2	0.1	1	0.0	1	0.0	1	0.0	2	0.1
TOTAL	3021	100.0	3399	100.0	3542	100.0	3808	100.0	3872	100.0

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.

Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of babies are higher than shown (Table 75).

TABLE 90: GESTATIONAL AGE OF BABIES BORN TO ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015[#]

Local Health District	Gestational age (weeks)							
	Less than 37		37+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%
Sydney	11	9.9	100	90.1	0	0.0	111	100.0
South Western Sydney	35	14.2	211	85.8	0	0.0	246	100.0
South Eastern Sydney	8	7.3	102	92.7	0	0.0	110	100.0
Illawarra Shoalhaven	39	17.5	184	82.5	0	0.0	223	100.0
Western Sydney	33	13.1	219	86.9	0	0.0	252	100.0
Nepean Blue Mountains	36	14.6	210	85.4	0	0.0	246	100.0
Northern Sydney	–	–	30	93.8	–	–	32	100.0
Central Coast	23	10.3	200	89.7	0	0.0	223	100.0
Hunter New England	135	13.6	854	86.3	1	0.1	990	100.0
Northern NSW	25	10.3	217	89.7	0	0.0	242	100.0
Mid North Coast	30	11.8	224	88.2	0	0.0	254	100.0
Southern NSW	–	–	91	96.8	–	–	94	100.0
Murrumbidgee	25	14.4	149	85.6	0	0.0	174	100.0
Western NSW	78	12.7	533	87.1	1	0.2	612	100.0
Far West	–	–	41	95.3	–	–	43	100.0
Other—not stated	7	35.0	13	65.0	0	0.0	20	100.0
TOTAL	492	12.7	3378	87.2	2	0.1	3872	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of babies are higher than shown. The level of under-reporting varies between Local Health Districts (Table 75). Data not shown for cell counts less than five.

Apgar score

In 2015, 3.4% of Aboriginal or Torres Strait Islander babies had an Apgar score less than 7 at 5 minutes (Table 91), which is higher than the rate of 2.3% for babies born to non-Aboriginal or Torres Strait Islander mothers.

TABLE 91: APGAR SCORE OF BABIES BORN TO ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2011–2015[#]

Apgar score at 5 minutes	Year									
	2011		2012		2013		2014		2015	
	No.	%	No.	%	No.	%	No.	%	No.	%
0–4	61	2.0	50	1.5	58	1.6	61	1.6	58	1.5
5–6	56	1.9	59	1.7	46	1.3	75	2.0	75	1.9
7+	2891	95.7	3270	96.2	3434	97.0	3657	96.0	3720	96.1
Not stated	13	0.4	20	0.6	4	0.1	15	0.4	19	0.5
TOTAL	3021	100.0	3399	100.0	3542	100.0	3808	100.0	3872	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of babies are higher than shown (Table 75).

Infant feeding

In 2015, 63.3% of babies born to Aboriginal or Torres Strait Islander mothers were fully breastfed at discharge from hospital, 7.1% were partially breastfed and 27.8% received infant formula only (Table 92). This compares with 79.6% of babies born to non-Aboriginal or Torres Strait Islander mothers who were fully breastfed in 2015. Rates of full breastfeeding ranged from 46.8% in the Western Sydney Local Health District to 90.6% in the Northern Sydney Local Health District.

TABLE 92: INFANT FEEDING AMONG LIVEBORN BABIES OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2015[#]

Local Health District	Infant feeding									
	Full breastfeeding		Any breastfeeding		Infant formula only		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	65	58.6	12	10.8	34	30.6	0	0.0	111	100.0
South Western Sydney	133	54.5	29	11.9	78	32.0	4	1.6	244	100.0
South Eastern Sydney	78	71.6	8	7.3	21	19.3	2	1.8	109	100.0
Illawarra Shoalhaven	139	63.5	11	5.0	63	28.8	6	2.7	219	100.0
Western Sydney	117	46.8	25	10.0	106	42.4	2	0.8	250	100.0
Nepean Blue Mountains	142	58.4	16	6.6	84	34.6	1	0.4	243	100.0
Northern Sydney	29	90.6	–	–	–	–	–	–	32	100.0
Central Coast	166	74.4	11	4.9	44	19.7	2	0.9	223	100.0
Hunter New England	636	65.0	69	7.0	253	25.8	21	2.1	979	100.0
Northern NSW	191	79.3	17	7.1	28	11.6	5	2.1	241	100.0
Mid North Coast	193	76.3	13	5.1	43	17.0	4	1.6	253	100.0
Southern NSW	67	72.0	6	6.5	15	16.1	5	5.4	93	100.0
Murrumbidgee	89	51.7	11	6.4	68	39.5	4	2.3	172	100.0
Western NSW	342	56.5	41	6.8	210	34.7	12	2.0	605	100.0
Far West	29	67.4	–	–	13	30.2	–	–	43	100.0
Other–not stated	11	57.9	–	–	5	26.3	–	–	19	100.0
TOTAL	2427	63.3	274	7.1	1066	27.8	69	1.8	3836	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

[#] Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of babies are higher than shown. The level of under-reporting varies between Local Health Districts (Table 75). Data not shown for cell counts less than five.

Perinatal mortality

Between 2011 and 2015, the perinatal mortality rate among Aboriginal or Torres Strait Islander babies has varied between 9.6 and 17.9 per 1,000 births (Table 93). The rate of 9.6 per 1,000 births in Aboriginal or Torres Strait Islander mothers in 2015 is higher than the rate of 8.1 per 1,000 births experienced among babies born to non-Aboriginal or Torres Strait Islander mothers.

TABLE 93: PERINATAL DEATHS AMONG BABIES BORN TO ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2011–2015[#]

Perinatal deaths	Year									
	2011		2012		2013		2014		2015	
	No.	Rate/ 1,000	No.	Rate/ 1,000	No.	Rate/ 1,000	No.	Rate/ 1,000	No.	Rate/ 1,000
Stillborn	40	13.2	28	8.2	26	7.3	33	8.7	34	8.8
Neonatal death	14	4.6	13	3.8	13	3.7	14	3.7	3	0.8
TOTAL	54	17.9	41	12.1	39	11.0	47	12.3	37	9.6

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

[#] Perinatal deaths include deaths reported to the PDC only. As the PDC form is completed at discharge or transfer of the baby, deaths occurring after this time may not be reported to the PDC. Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of babies are higher than shown (Table 75).

9. APPENDICES

Appendix 1: Glossary of terms

Aboriginal and Torres Strait Islander

Women who identify themselves as Australian Aboriginal or Torres Strait Islander.

Apgar score

A numerical scoring system routinely administered 1 and 5 minutes after birth to evaluate the condition of the baby. The score ranges from 0–10 (10 being perfect). It takes account of 5 physical signs, each of which is assigned a component score of 0, 1 or 2: heart rate, respiration, muscle tone, reflexes, and colour.

Augmentation

Artificial rupture of the membranes or use of oxytocic drugs after spontaneous onset of labour.

Birth weight

The newborn infant's first bare weight in grams.
Low birth weight: birth weight less than 2,500 grams.
Very low birth weight: birth weight less than 1,500 grams.
Extremely low birth weight: birth weight less than 1,000 grams.

Caesarean section

Birth of the fetus through an abdominal incision. Elective caesarean section: a caesarean section (planned or unplanned) performed before the onset of labour. Emergency caesarean section: a caesarean section performed after the onset of labour, whether or not the onset of labour was spontaneous.

Confinement

Refers to a woman having given birth. In a multiple pregnancy, 1 confinement will result in more than 1 birth.

Epidural

Injection of analgesic agent outside the dura mater which covers the spinal canal; includes lumbar, spinal, and epidural anaesthetics.

Episiotomy

An incision of the perineum and vagina to enlarge the vulval orifice.

Gestational age

The duration of pregnancy in completed weeks from the first day of the last normal menstrual period. Where accurate information on the date of the last menstrual period is not available, a clinical estimate of gestational age may be obtained from ultrasound during the first half of pregnancy or by examination of the newborn infant. The 'best estimate' is used in this report.

Induction of labour

Oxytocics–prostaglandins: the initiation of labour by the use of oxytocic agents, prostaglandins, or their derivatives (oral, intravaginal or intravenous).

ARM only: the initiation of labour by artificial rupture of membranes.

Oxytocics–prostaglandins and ARM: both medical and surgical induction as defined above (combined medical and surgical induction).

Live birth

The complete expulsion or extraction from its mother of a baby who, after being born, breathes or shows any evidence of life such as a heartbeat.

Parity

The total number of live births and stillbirths of the mother before the pregnancy or birth under consideration.

Perinatal death

A stillbirth or neonatal death.

Perinatal mortality rate

The number of perinatal deaths (stillbirths and neonatal deaths) per 1,000 total births in a year (live births and stillbirths combined).

Perineal status

1st degree tear: a perineal graze–laceration–tear involving: the fourchette, hymen, labia, skin, vagina, or vulva.

2nd degree tear: a perineal laceration or tear involving the pelvic floor or perineal muscles or vaginal muscles.

3rd degree tear: a perineal laceration–tear involving the anal sphincter or rectovaginal septum.

4th degree tear: a third degree perineal laceration or tear which also involves the anal mucosa or rectal mucosa.

Plurality

The number of fetuses in utero at 20 weeks gestation that are subsequently born separately. On this basis pregnancy may be classified as single or multiple.

Premature infant

An infant born before 37 completed weeks gestation.

Primary caesarean section

First caesarean section.

Stillbirth

The complete expulsion or extraction from its mother of a product of conception of at least 20 weeks gestation or 400 grams birth weight who did not, at any time after birth, breathe, or show any evidence of life such as a heartbeat.

Appendix 2: Explanatory notes

Antenatal care

Up to 2010, the question asked at data collection was 'Duration of pregnancy at first antenatal visit'. From 2011, the question asked is: 'Duration of pregnancy at first comprehensive booking or assessment by clinician'. The new question has more specifically defined the type of visit to be reported and resulted in a substantial decrease in the reported proportion of mothers who commenced antenatal care before 14 weeks gestation between 2010 and 2011. Furthermore, as 2012 was the first year the new question was being consistently asked, this also resulted in a substantial decrease in the reported proportion between 2011 and 2012.

Breastfeeding

From 2007, the PDC has collected information on infant feeding at the time of discharge from hospital (or discharge from care for home births) for all infants born in NSW. Infant feeding is reported via 3 tick-box categories: breastfeeding, expressed breast milk and infant formula. More than 1 type of feeding may be reported by ticking multiple boxes. In this report, infant feeding is classified into 3 categories: full breastfeeding, which includes babies who were reported to be breastfed or to be receiving expressed breast milk; any breastfeeding, which includes babies who were reported to be receiving breast milk and infant formula; and infant formula only (no breastfeeding).

Place of residence of mother

The mother's usual residence was the basis for coding to statistical areas of residence and NSW Local Health Districts.

Labour

The category *labour—spontaneous with oxytocics—prostaglandins* was used where labour was augmented with artificial rupture of membranes as well as oxytocics or prostaglandins.

Maternity service level

Level 1: local maternity service (no births), postnatal only for women with normal outcomes.

Level 2: small maternity services, normal risk pregnancy and births only. Staffed by general practitioners and midwives.

Level 3: country district and smaller metropolitan services, care for mothers and infants at normal selected moderate risk pregnancies and births. Full resuscitation and theatre facilities available. Rostered obstetricians, resident medical staff and midwives. Accredited general practitioner, specialist anaesthetist on call. Has Level 2b neonatal care.

Level 4: regional referral metropolitan district services. Birth and care for mothers and/or babies with moderate risk factors. Obstetricians and paediatrician available 24 hours a day, 7 days a week. Rostered resident medical staff, specialist anaesthetist on call. Has Level 2b neonatal care.

Level 5: regional referral metropolitan services, care for mothers and infants known to be at high risk. Able to cope with complications arising from these risk factors. Has Level 2a neonatal care.

Level 6: (tertiary) specialist obstetric services (supra regional). All functions normal, moderate and high risk births. Has Level 3 neonatal intensive care.

Type of birth

The 'vaginal breech' category covers all forms of vaginal breech birth, including forceps to the after coming head.

Perinatal mortality rate

Perinatal deaths include deaths reported to the PDC only. As the PDC form is completed at discharge or transfer of the baby, deaths occurring after this time may not be reported to the PDC. Birth and perinatal death registration data held by the Australian Bureau of Statistics (ABS) give the most complete ascertainment of perinatal deaths for calculation of rates.

Appendix 3: Maternal countries of birth and country of birth groups

English speaking

Australia
Australian External Territories, nec
Bermuda
Canada
England
Guernsey
Ireland
Isle of Man
Jersey
New Zealand
Norfolk Island
Northern Ireland
Scotland
South Africa
St Pierre and Miquelon
United States of America
Wales

Melanesia, Micronesia & Polynesia

Cook Islands
Fiji
French Polynesia
Guam
Kiribati
Marshall Islands
Micronesia, Federated States of
Nauru
New Caledonia
Niue
Northern Mariana Islands
Palau
Papua New Guinea
Pitcairn Islands
Polynesia (excludes Hawaii), nec
Samoa
Samoa, American
Solomon Islands
Tokelau
Tonga
Tuvalu
Vanuatu
Wallis and Futuna

Southern Europe

Albania
Andorra
Bosnia and Herzegovina
Bulgaria
Croatia
Cyprus
Former Yugoslav Republic of Macedonia (FYROM)
Gibraltar
Greece
Holy See
Italy
Kosovo
Malta
Moldova
Montenegro
Portugal
Romania
San Marino
Serbia
Slovenia
Spain

Western and Northern Europe

Aland Islands
Austria
Belgium
Denmark
Faroe Islands
Finland
France
Germany
Greenland
Iceland
Liechtenstein
Luxembourg
Monaco
Netherlands
Norway
Sweden
Switzerland

Eastern Europe, Russia and Central Asian States

Afghanistan
Armenia
Azerbaijan
Belarus
Czech Republic
Estonia

Georgia
Hungary
Kazakhstan
Kyrgyzstan
Latvia
Lithuania
Poland
Russian Federation
Slovakia
Tajikistan
Turkmenistan
Ukraine
Uzbekistan

Middle East and Africa

Algeria
Angola
Bahrain
Benin
Botswana
Burkina Faso
Burundi
Cameroon
Cape Verde
Central African Republic
Chad
Comoros
Congo, Democratic Republic of
Congo, Republic of
Cote d'Ivoire
Djibouti
Egypt
Equatorial Guinea
Eritrea
Ethiopia
Gabon
Gambia
Gaza Strip and West Bank
Ghana
Guinea
Guinea-Bissau
Iran
Iraq
Israel
Jordan
Kenya
Kuwait
Lebanon
Lesotho
Liberia
Libya
Madagascar
Malawi

Mali
Mauritania
Mauritius
Mayotte
Morocco
Mozambique
Namibia
Niger
Nigeria
Oman
Qatar
Reunion
Rwanda
Sao Tome and Principe
Saudi Arabia
Senegal
Seychelles
Sierra Leone
Somalia
South Sudan
Southern and East Africa, nec
Spanish North Africa
St Helena
Sudan
Swaziland
Syria
Tanzania
Togo
Tunisia
Turkey
Uganda
United Arab Emirates
Western Sahara
Yemen
Zambia
Zimbabwe

South East Asia

Brunei Darussalam
Cambodia
Indonesia
Laos
Malaysia
Myanmar, The Republic of the
Union of
Philippines
Singapore
Thailand
Timor-Leste
Vietnam

North East Asia

China (excludes SARs and Taiwan)
Hong Kong (SAR of China)
Japan
Korea, Democratic People's Republic of (North)
Korea, Republic of (South)
Macau (SAR of China)
Mongolia
Taiwan

Southern Asia

Bangladesh
Bhutan
India
Maldives
Nepal
Pakistan
Sri Lanka

Central and South America

Anguilla
Antigua and Barbuda
Argentina
Aruba
Bahamas
Barbados
Belize
Bolivia, Plurinational State of
Bonaire, Sint Eustatius and Saba
Brazil
Cayman Islands
Chile
Colombia
Costa Rica
Cuba
Curacao
Dominica
Dominican Republic
Ecuador
El Salvador
Falkland Islands
French Guiana
Grenada
Guadeloupe
Guatemala
Guyana
Haiti

Honduras
Jamaica
Martinique
Mexico
Montserrat
Nicaragua
Panama
Paraguay
Peru
Puerto Rico
Sint Maarten (Dutch part)
South America, nec
St Barthelemy
St Kitts and Nevis
St Lucia
St Martin (French part)
St Vincent and the Grenadines
Suriname
Trinidad and Tobago
Turks and Caicos Islands
Uruguay
Venezuela, Bolivarian Republic of
Virgin Islands, British
Virgin Islands, United States

Appendix 4: NSW Perinatal Data Collection form

PLEASE PRESS FIRMLY WHEN COMPLETING THIS FORM

NSW PERINATAL DATA COLLECTION

Mother's Unit Record No.

Hospital _____ **Code**

First Name _____ **Family Name** _____

Address _____ **Postcode**

Mother's birth date

Country of birth Australia 1 101 Other

If other, specify:

Indigenous status: Mother Baby

Aboriginal 1
Torres Strait Islander 2
Aboriginal and Torres Strait Islander 3
None of the above 4

PREVIOUS PREGNANCIES

Previous pregnancy greater than 20 weeks? Yes 1 No 0

If yes:

No. previous pregnancies > 20 weeks

Was the last birth by caesarean section? Yes 1 No 0

Total number of previous caesarean sections?

THIS PREGNANCY

Date of EDC

Antenatal care received? Yes 1 No 0

If yes:

Duration of pregnancy at first comprehensive booking or assessment by clinician

Number of antenatal visits

Medical conditions Diabetes mellitus
Gestational diabetes
Chronic hypertension
Preeclampsia
Gestational hypertension
Hepatitis B surface antigen positive

Did the mother smoke at all in 1st half of pregnancy? Yes 1 No 0

If yes, how many cigarettes each day on average in the 1st half of pregnancy?

Did the mother smoke at all in 2nd half of pregnancy? Yes 1 No 0

If yes, how many cigarettes each day on average in the 2nd half of pregnancy?

LABOUR AND DELIVERY

Onset of labour Spontaneous 1 Induced 2
No labour 3

If labour augmented/ induced (tick one or more):
Oxytocins ARM
Prostaglandins Other

If labour induced, main indication: Diabetes 1
Hypertensive disease 2
Fetal distress 3
Fetal death 4
Chorioamnionitis 5
Blood group isoimmunisation 6
Prelabour rupture of membranes 7
Prolonged pregnancy (41+ weeks) 8
Suspected intrauterine growth restriction 9
Other 10

LABOUR AND DELIVERY (cont.)

Presentation at birth Vertex 1 Brow 4
Breech 2 Shoulder/transverse 5
Face 3 Other 6

Analgesia for labour (tick one or more)
None Epidural/caudal
Nitrous oxide Combined spinal+epidural
Systemic opioids Other
Spinal

Type of birth Normal vaginal 1 Vag. breech-forceps 4
Forceps 2 Vag. breech-no forceps 5
Vacuum extr. 3 Caesarean section 6

If caesarean section, main indication:
Failure to progress
- Cx 3 cm dilated or less 2
- Cx dilated more than 3 cm 3
Fetal distress 4
Elective repeat caesarean section 5
Other clinical indication 6
Non-clinical indication 7

Anaesthesia for delivery (tick one or more)
None Epidural/caudal
Local to perineum Combined spinal+epidural
Pudendal General anaesthetic
Spinal Other

Perineal status Intact 1 3rd deg. tear 4
1st deg. tear/graze 2 4th deg. tear 5
2nd deg. tear 3 Other 6

Episiotomy Yes 1 No 0

Surgical repair of the vagina or perineum Yes 1 No 0

Management of the 3rd stage Active 1 Physiological 2

BABY

Unit Record No.

Birth date:

Sex: M 1 F 2 Indet. 3

Plurality: Single 1 Multiple 2

If multiple, total number

If multiple birth, specify baby number

Birthweight (grams)

Estimated gestational age

Apgar

1 min 5 min

Resuscitation of baby (tick one or more)
None/minimal 1 IPPR: mask 4
Suction 2 IPPR: with intubation 5
O₂ therapy 3 External cardiac massage + ventilation 6

MATERNITY CARE

Model of care: Antenatal care Birth (for shared care tick more than one box)

Private obstetrician
Hospital-based medical General practitioner
Hospital-based midwife/midwives
Independent midwife
Not applicable

Was mother in a midwifery continuity of carer program for antenatal, birth and postnatal care? Yes 1 No 0

Mother referred from another hospital? Yes 1 No 0

If yes, specify hospital

Referral prior to onset of labour 1
Referral after onset of labour 2

Baby place of birth Hospital theatre/delivery suite 1
Birth centre 2
Planned birth centre/delivery suite birth 3
Planned homebirth 4
Planned homebirth/hospital admission 5
Born before arrival 6

POSTNATAL

Mother Postpartum haemorrhage requiring blood transfusion Yes 1 No 0

Baby Congenital condition? Yes 1 No 0

If yes, specify:

Admitted to SCN/NICU Yes 1 No 0

If yes, was a congenital condition the main reason for admission? Yes 1 No 0

Vitamin K Oral 1 IM 2 None 3

Hepatitis B birth dose Yes 1 No 0

DISCHARGE

Mother Discharged 1 Transferred 2 Died 3

Baby Discharged 1 Transferred 2 Stillbirth 3 Died 4 Transferred and died 5

Mother's date of discharge

Hospital mother transferred to:

Baby feeding on hospital discharge (tick one or more) Breast-feeding
Expressed breast milk
Infant formula

Baby's date of discharge

Hospital baby transferred to:

Baby transferred by NETS Yes 1 No 0

Signature of midwife at discharge

Public Health Act, 1991

MR44/PR16

Please complete and forward to: NSW Perinatal Data Collection
Demand and Performance Evaluation Branch, Level 5, NSW Department of Health
Locked Mail Bag 961, North Sydney, NSW 2059

Health Department Copy



