

NSW Mothers and Babies 2013



Health

NSW MINISTRY OF HEALTH

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2. EXECUTIVE SUMMARY

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

- The number of births in NSW rose from 96,439 in 2009 to 96,971 in 2013, an overall increase of 0.6%. The largest increase occurred in the Western Sydney Local Health District, where the number of births increased from 13,573 to 14,515 between 2009 and 2013.
- The percentage of mothers who were teenagers fell from 3.5% in 2009 to 3.0% in 2013. Over the same period the percentage of mothers aged 35 years and over decreased slightly from 23.8% to 23.5%.
- The rate of normal vaginal birth decreased from 58.2% in 2009 to 56.8% in 2013. The caesarean section rate increased from 30.2% to 31.5%, while the rate of instrumental birth increased from 11.2% to 11.4%.
- 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 46.6% in 2009 to 45.2% in 2013 and the caesarean section rate increased from 38.9% to 40.8%. Among publicly insured mothers the rate of normal vaginal birth fell from 64.6% to 63.0% and the caesarean section rate rose from 25.5% to 26.4%.
- The proportion of mothers reporting any smoking during pregnancy declined from 12.0% in 2009 to 9.7% in 2013. Of mothers who smoked during pregnancy in 2013, 26.3% stopped smoking in the first half of pregnancy.
- In 2013, the majority of mothers planned to give birth in a hospital labour ward, and 2.9% 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 217 homebirths in NSW reported in 2013.
- In 2013, 7.6% of babies were born prematurely (less than 37 weeks gestation), similar to 7.3% reported for 2009.
- Since 2009, the rate of low birth weight (less than 2,500 grams) fluctuated between 6.0% and 6.3%. The rate of low birth weight was 6.3% in 2013.
- Between 2009 and 2013, the number of reported births to Aboriginal or Torres Strait Islander mothers rose from 2,931 to 3,542, representing 3.0% and 3.7% respectively of all babies born in NSW.
- The percentage of Aboriginal or Torres Strait Islander mothers who were teenagers fell from 18.9% in 2009 to 17.6% in 2013. The percentage of mothers giving birth at 35 years of age or more has decreased from 9.7% in 2009 to 9.5% in 2013.
- In 2013, 46.6% of Aboriginal or Torres Strait Islander mothers reported smoking at some time during pregnancy, compared to 50.5% in 2009.
- Since 2009, the rates of low birth weight and prematurity in Aboriginal or Torres Strait Islander babies have been over 10.0%. In 2013, 11.4% of Aboriginal or Torres Strait Islander babies were low birth weight and 12.6% were premature.
- The perinatal mortality rate of 11.4 per 1,000 births in Aboriginal or Torres Strait Islander mothers in 2013 is substantially higher than the rate of 7.8 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 2013, 86% of PDC records were received electronically from public and private hospitals information systems. These 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 57.6% 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. The CERNER system supplies 18.2% of PDC records and covers all public hospitals in Sydney and South Western Sydney Local Health Districts. Meditech, which supplies 8.3% of PDC records includes 6 Ramsay Private Hospitals (North Shore Private Hospital, Westmead Private Hospital, St George Private Hospital, Kareena Private Hospital, Figtree Private Hospital, and Tamara Private Hospital), 2.0% of the PDC is supplied by the Sydney Adventist Hospital database, 2.0% of records are from the Newcastle Private Hospital database, and approximately 14% of records were received by paper forms.

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
- The 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, 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, Emergency Department Data Collection, ABS mortality data, Australian Coordinating Registry Cause of Death Unit Record File, Notifiable Conditions Information Management System, and birth registration data from the Registry of Births, Deaths & Marriages.

NSW Maternal and Perinatal Committee

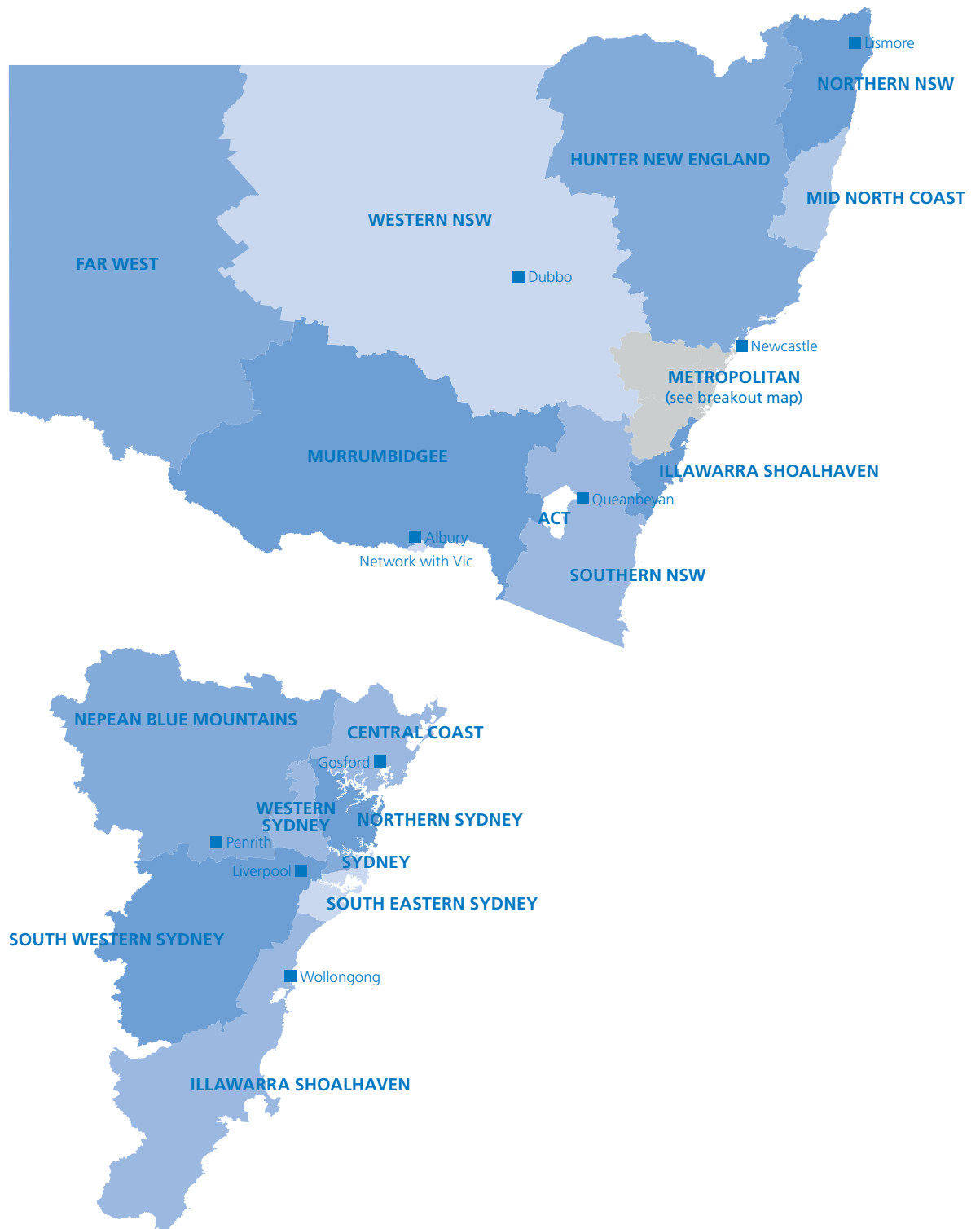
The NSW Maternal and Perinatal Committee is a quality assurance committee established under the NSW Health Administration Act 1982, and is privileged under the Act to carry out confidential reviews of both maternal and perinatal deaths. Members are appointed by the Minister for Health.

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 live born 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 rose from 96,439 in 2009 to 96,971 in 2013, a rise of 0.6%. In 2013, 96,971 births to 95,537 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 2009–2013

Plurality	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Confinements										
Singleton	93677	98.6	93527	98.5	94429	98.5	96793	98.6	94128	98.5
Twins	1339	1.4	1446	1.5	1383	1.4	1327	1.4	1384	1.4
Triplets	24	0.0	22	0.0	23	0.0	21	0.0	25	0.0
Quadruplets	3	0.0	1	0.0	0	0.0	0	0.0	0	0.0
TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	100.0
Births										
Singleton	93677	97.1	93527	96.9	94429	97.1	96793	97.3	94128	97.1
Twins	2678	2.8	2892	3.0	2747	2.8	2654	2.7	2768	2.9
Triplets	72	0.1	66	0.1	69	0.1	63	0.1	75	0.1
Quadruplets	12	0.0	4	0.0	0	0.0	0	0.0	0	0.0
TOTAL	96439	100.0	96489	100.0	97245	100.0	99510	100.0	96971	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 in births occurred in the Western Sydney Local Health District, from 13,573 to 14,515 between 2009 and 2013. In 2013, 28.6% 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 2009–2013

Local Health District	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	8473	8.9	8524	9.0	8537	8.9	8769	8.9	8331	8.7
South Western Sydney	12743	13.4	12554	13.2	12647	13.2	13176	13.4	12842	13.4
South Eastern Sydney	11278	11.9	11358	12.0	11309	11.8	11878	12.1	11396	11.9
Illawarra Shoalhaven	4420	4.7	4403	4.6	4467	4.7	4476	4.6	4398	4.6
Western Sydney	13573	14.3	13817	14.5	14321	14.9	14601	14.9	14515	15.2
Nepean Blue Mountains	4819	5.1	4743	5.0	4881	5.1	4788	4.9	4743	5.0
Northern Sydney	10372	10.9	10613	11.2	10308	10.8	10653	10.9	10310	10.8
Central Coast	3949	4.2	3776	4.0	3914	4.1	3823	3.9	3922	4.1
Hunter New England	10559	11.1	10826	11.4	11116	11.6	11328	11.5	10931	11.4
Northern NSW	2940	3.1	2845	3.0	2832	3.0	2786	2.8	2785	2.9
Mid North Coast	2252	2.4	2289	2.4	2333	2.4	2243	2.3	2235	2.3
Southern NSW	1421	1.5	1366	1.4	1387	1.4	1450	1.5	1368	1.4
Murrumbidgee	2616	2.8	2515	2.6	2402	2.5	2402	2.4	2305	2.4
Western NSW	3708	3.9	3717	3.9	3685	3.8	3879	4.0	3707	3.9
Far West	243	0.3	254	0.3	218	0.2	255	0.3	226	0.2
Other—not stated	1677	1.8	1396	1.5	1478	1.5	1634	1.7	1523	1.6
TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	100.0

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

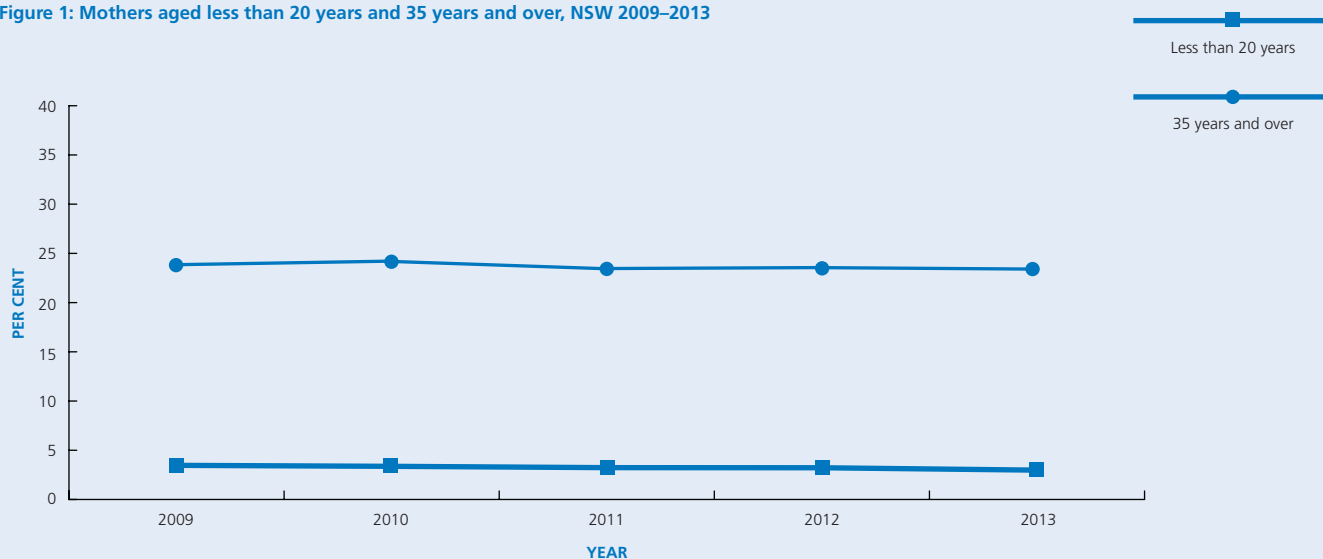
Maternal age

The percentage of mothers who were teenagers fell slightly from 3.5% in 2009 to 3.0% in 2013. Between 2009 and 2010, the percentage of mothers aged 35 years and over increased from 23.8% to 24.2%. This was followed by a decrease to 23.5% in 2013 (Figure 1, Table 3).

The mean maternal age rose from 30.2 to 30.4 years over the 5 years 2009 to 2013. The mean maternal age rose slightly from 28.5 to 28.9 years for primiparous mothers and from 31.4 to 31.5 years for multiparous mothers.

The proportion of mothers giving birth for the first time who were aged 35 years or more increased from 15.4% to 15.8% between 2009 and 2010, then decreased to 15.3% in 2012. In 2013 the proportion increased to 15.7%. The proportion of multiparous mothers who were aged 35 years or more decreased slightly from 30.1% in 2009 to 29.5% in 2013.

Figure 1: Mothers aged less than 20 years and 35 years and over, NSW 2009–2013



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

TABLE 3: MATERNAL AGE, NSW 2009–2013

Maternal age (years)	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Less than 15	23	0.0	17	0.0	19	0.0	18	0.0	15	0.0
15–19	3271	3.4	3182	3.3	3080	3.2	3144	3.2	2832	3.0
20–24	12649	13.3	12776	13.4	12508	13.1	12694	12.9	12097	12.7
25–29	25836	27.2	25811	27.2	26513	27.7	26769	27.3	25801	27.0
30–34	30590	32.2	30205	31.8	31209	32.6	32385	33.0	32411	33.9
35–39	18726	19.7	18924	19.9	18299	19.1	18534	18.9	17841	18.7
40–44	3743	3.9	3890	4.1	3957	4.1	4314	4.4	4282	4.5
45+	190	0.2	177	0.2	224	0.2	266	0.3	240	0.3
Not stated	15	0.0	14	0.0	26	0.0	17	0.0	18	0.0
TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	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 2009 and 2013, from 68.3% to 65.1%. In 2013, mothers born in China, India, New Zealand, the United Kingdom, Vietnam and the Philippines together accounted for 14.9% of all mothers (Table 4).

TABLE 4: MATERNAL COUNTRY OF BIRTH, NSW 2008–2013[#]

Country of birth	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Australia	64884	68.3	63945	67.3	63611	66.4	63799	65.0	62165	65.1
China	2586	2.7	2899	3.1	3281	3.4	4145	4.2	3856	4.0
India	2342	2.5	2753	2.9	3081	3.2	3142	3.2	3328	3.5
New Zealand	2378	2.5	2281	2.4	2237	2.3	2246	2.3	2188	2.3
United Kingdom	2587	2.7	2491	2.6	2234	2.3	2185	2.2	1968	2.1
Philippines	1417	1.5	1401	1.5	1386	1.4	1494	1.5	1465	1.5
Vietnam	1661	1.7	1413	1.5	1506	1.6	1861	1.9	1436	1.5
Lebanon	1391	1.5	1409	1.5	1373	1.4	1337	1.4	1280	1.3
Iraq	869	0.9	936	1.0	970	1.0	981	1.0	1014	1.1
Indonesia	731	0.8	783	0.8	798	0.8	902	0.9	823	0.9
Bangladesh	510	0.5	589	0.6	671	0.7	714	0.7	761	0.8
South Korea	623	0.7	705	0.7	627	0.7	802	0.8	728	0.8
Pakistan	528	0.6	525	0.6	566	0.6	592	0.6	646	0.7
Nepal	217	0.2	285	0.3	449	0.5	542	0.6	636	0.7
Fiji	657	0.7	655	0.7	633	0.7	641	0.7	621	0.7
South Africa	718	0.8	661	0.7	653	0.7	660	0.7	610	0.6
Thailand	472	0.5	482	0.5	514	0.5	569	0.6	535	0.6
United States of America	454	0.5	447	0.5	502	0.5	510	0.5	473	0.5
Hong Kong	432	0.5	414	0.4	465	0.5	548	0.6	452	0.5
Sri Lanka	384	0.4	428	0.5	417	0.4	450	0.5	442	0.5
Ireland	340	0.4	429	0.5	363	0.4	450	0.5	441	0.5
Malaysia	392	0.4	409	0.4	422	0.4	451	0.5	420	0.4
Japan	376	0.4	386	0.4	428	0.4	427	0.4	392	0.4
Afghanistan	322	0.3	320	0.3	340	0.4	365	0.4	340	0.4
Canada	274	0.3	268	0.3	299	0.3	292	0.3	333	0.3
Germany	284	0.3	280	0.3	297	0.3	308	0.3	309	0.3
Iran	202	0.2	240	0.3	270	0.3	297	0.3	295	0.3
Sudan	303	0.3	318	0.3	289	0.3	268	0.3	284	0.3
Cambodia	251	0.3	251	0.3	304	0.3	303	0.3	267	0.3
Brazil	152	0.2	185	0.2	200	0.2	216	0.2	242	0.3
Western Samoa	254	0.3	230	0.2	242	0.3	219	0.2	239	0.3
Egypt	176	0.2	197	0.2	232	0.2	209	0.2	214	0.2
Poland	200	0.2	207	0.2	202	0.2	195	0.2	204	0.2
Taiwan	143	0.2	145	0.2	161	0.2	184	0.2	187	0.2
Turkey	215	0.2	204	0.2	201	0.2	175	0.2	179	0.2
France	167	0.2	185	0.2	158	0.2	161	0.2	173	0.2
Russian Federation (not USSR)	157	0.2	164	0.2	213	0.2	206	0.2	169	0.2
Tonga	184	0.2	176	0.2	161	0.2	169	0.2	166	0.2
North Korea	149	0.2	162	0.2	149	0.2	177	0.2	157	0.2
Singapore	163	0.2	157	0.2	143	0.1	170	0.2	135	0.1
Colombia	104	0.1	106	0.1	105	0.1	142	0.1	135	0.1
Syria	162	0.2	137	0.1	154	0.2	151	0.2	132	0.1
Peru	101	0.1	84	0.1	119	0.1	94	0.1	130	0.1
Macedonia	112	0.1	118	0.1	115	0.1	123	0.1	125	0.1
Chile	178	0.2	160	0.2	140	0.1	147	0.1	124	0.1
Saudi Arabia	135	0.1	152	0.2	158	0.2	132	0.1	116	0.1
Bosnia-Herzegovina	109	0.1	124	0.1	128	0.1	123	0.1	113	0.1
Zimbabwe	110	0.1	112	0.1	117	0.1	127	0.1	110	0.1
Burma (Myanmar)	83	0.1	81	0.1	97	0.1	100	0.1	108	0.1
Jordan	86	0.1	104	0.1	101	0.1	95	0.1	105	0.1
Former Yugoslavia	113	0.1	118	0.1	124	0.1	123	0.1	104	0.1
Inadequately Described	136	0.1	213	0.2	79	0.1	95	0.1	110	0.1
Other/Not stated	3069	3.2	3072	3.2	3350	3.5	3327	3.4	3552	3.7
TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	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 2013.

Aboriginal and Torres Strait Islander mothers

The reported number of Aboriginal or Torres Strait Islander mothers giving birth increased from 2,904 in 2009 to 3,492 in 2013, an increase from 3.1% to 3.7% 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 2009–2013

Aboriginal or Torres Strait Islander	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Aboriginal or Torres Strait Islander	2904	3.1	3090	3.3	2975	3.1	3348	3.4	3492	3.7
Non-Aboriginal or Torres Strait Islander	91963	96.8	91662	96.5	92619	96.6	94738	96.5	91986	96.3
Not stated	176	0.2	244	0.3	241	0.3	55	0.1	59	0.1
TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	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 an increase in the percentage of mothers giving birth for the first time, from 42.5% in 2009 to 44.2% in 2013 (Table 6). While the proportion of mothers giving birth to a second or subsequent baby has decreased from 57.5% to 55.8% over the same period.

TABLE 6: PREVIOUS PREGNANCIES, NSW 2009–2013

No. previous pregnancies (>20 weeks gestation)	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
0	40349	42.5	40796	42.9	41602	43.4	43140	44.0	42257	44.2
1–4	52975	55.7	52491	55.3	52423	54.7	53447	54.5	51831	54.3
5+	1701	1.8	1671	1.8	1547	1.6	1518	1.5	1429	1.5
Not stated	18	0.0	38	0.0	263	0.3	36	0.0	20	0.0
TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	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 2009 and 2010, the proportion of mothers starting antenatal care at 20-plus weeks gestation was 7.1% and 6.9% respectively, while the proportion of mothers starting antenatal care at less than 14 weeks gestation was 78.9% and 79.3% respectively (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 and resulted in a substantial decrease in the reported proportion of mothers who commenced antenatal care before 14 weeks gestation between 2010 and 2011. In 2013, 60.0% of mothers started antenatal care at less than 14 weeks and 15.2% started at 20-plus weeks.

TABLE 7: DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT, NSW 2009–2013

Duration of pregnancy (weeks)	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
0–13	74947	78.9	75317	79.3	68373	71.3	60051	61.2	57336	60.0
14–19	12437	13.1	11840	12.5	14879	15.5	21489	21.9	22916	24.0
20–plus	6744	7.1	6594	6.9	9724	10.1	14063	14.3	14507	15.2
Not stated	915	1.0	1245	1.3	2859	3.0	2538	2.6	778	0.8
TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	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 12.0% in 2009 to 9.7% in 2013 (Table 8). Of mothers who smoked during pregnancy in 2013, 26.3% 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 2009–2013

Smoking in pregnancy	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Did not smoke	83605	88.0	84300	88.7	84545	88.2	87580	89.2	86251	90.3
Smoked	11434	12.0	10685	11.2	10669	11.1	10225	10.4	9285	9.7
Not stated	4	0.0	11	0.0	621	0.6	336	0.3	1	0.0
TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	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 2009–2013

Cigarettes smoked in the second half of pregnancy	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
None	1842	16.1	1851	17.3	2561	24.0	2562	25.1	2446	26.3
1–10 per day	4995	43.7	4739	44.4	5482	51.4	5439	53.2	5069	54.6
> 10 per day	3580	31.3	2941	27.5	1900	17.8	1849	18.1	1510	16.3
Smoked, amount not stated	1015	8.9	1154	10.8	604	5.7	363	3.6	260	2.8
Not stated	2	0.0	0	0.0	122	1.1	12	0.1	0	0.0
TOTAL	11434	100.0	10685	100.0	10669	100.0	10225	100.0	9285	100.0

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

Place of birth

In 2013, the majority of mothers planned to give birth in a hospital labour ward, and 2.9% 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 dropped from 266 in 2009 to 236 in 2013, as did the reported number of planned homebirths that occurred at home (231 in 2009 and 217 in 2013).

TABLE 10: MATERNAL PLACE OF BIRTH, NSW 2009–2013

Place of birth	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Hospital	90525	95.2	90730	95.5	91574	95.6	93945	95.7	92012	96.3
Birth centre	2736	2.9	2703	2.8	2804	2.9	2837	2.9	2392	2.5
Planned birth centre–hospital admission	1004	1.1	830	0.9	709	0.7	596	0.6	354	0.4
Planned homebirth	231	0.2	246	0.3	225	0.2	202	0.2	217	0.2
Planned homebirth–hospital admission	35	0.0	18	0.0	36	0.0	30	0.0	19	0.0
Born before arrival	512	0.5	468	0.5	462	0.5	519	0.5	543	0.6
Not stated	0	0.0	1	0.0	25	0.0	12	0.0	0	0.0
TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	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 5.4% in 2009 to 7.0% in 2013. The rate of diabetes mellitus also increased from 0.6% to 1.2% over the same 5-year period (Table 11). Overall, hypertension in pregnancy remained steady at 5.3%.

TABLE 11: MATERNAL HYPERTENSION OR DIABETES, NSW 2009–2013[#]

Condition	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Diabetes mellitus	525	0.6	609	0.6	612	0.6	662	0.7	1170	1.2
Gestational diabetes	5157	5.4	5330	5.6	6094	6.4	7292	7.4	6710	7.0
Chronic hypertension	756	0.8	796	0.8	784	0.8	776	0.8	741	0.8
Pre-eclampsia	1902	2.0	1879	2.0	1662	1.7	1675	1.7	1577	1.7
Gestational Hypertension	2421	2.5	2632	2.8	2646	2.8	2825	2.9	2766	2.9
TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
[#] Variation in reported rates of gestational diabetes and diabetes mellitus may be related to changes over time and differences between hospitals in screening practice and management of abnormal glucose tolerance in pregnancy.

Labour

The rate of spontaneous onset of labour fell from 40.7% in 2009 to 37.7% in 2013 and the rate of induction of labour rose from 25.8% in 2009 to 29.2% in 2013 (Table 12). The most common reported reason for induction of labour in 2013 was prolonged pregnancy (41 or more weeks) (20.0%), followed by prelabour rupture of membranes (15.6%), hypertensive disease (8.4%), diabetes (10.2%), suspected intrauterine growth retardation (4.3%), fetal distress (2.1%) and fetal death (0.7%).

TABLE 12: ONSET AND AUGMENTATION OF LABOUR, NSW 2009–2013

Onset of labour	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Spontaneous	38697	40.7	38280	40.3	37772	39.4	38144	38.9	35970	37.7
Spontaneous augmented with ARM	6840	7.2	6611	7.0	6392	6.7	6389	6.5	5965	6.2
Spontaneous augmented with oxytocics/ prostaglandins [†]	8382	8.8	8481	8.9	8564	8.9	8530	8.7	7888	8.3
No labour	16649	17.5	16849	17.7	17638	18.4	18253	18.6	17818	18.7
Induced–oxytocics/ prostaglandins	8680	9.1	8763	9.2	9176	9.6	9693	9.9	10028	10.5
Induced–ARM only	1710	1.8	1782	1.9	1789	1.9	1729	1.8	1884	2.0
Induced–ARM + oxytocics/ prostaglandins	13904	14.6	14057	14.8	14321	14.9	15220	15.5	15822	16.6
Induced–other [‡]	181	0.2	166	0.2	151	0.2	163	0.2	159	0.2
Not stated	0	0.0	7	0.0	32	0.0	20	0.0	3	0.0
TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	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 58.2% in 2009 to 56.8% in 2013 (Table 13). The caesarean section rate increased from 30.2% to 31.5%; while the rate of instrumental birth (forceps and vacuum extraction) increased marginally from 11.2% to 11.4%.

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 46.6% in 2009 to 45.2% in 2013 and the caesarean section rate increased from 38.9% to 40.8%. Among publicly insured mothers the rate of normal vaginal birth fell from 64.6% to 63.0% and the caesarean section rate rose from 25.5% to 26.4%.

TABLE 13: TYPE OF BIRTH, NSW 2009–2013

Type of birth	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Normal vaginal	55359	58.2	54774	57.7	54516	56.9	55993	57.1	54269	56.8
Forceps	3383	3.6	3843	4.0	3932	4.1	4192	4.3	4349	4.6
Vacuum extraction	7232	7.6	7074	7.4	7005	7.3	6981	7.1	6500	6.8
Vaginal breech	355	0.4	332	0.3	316	0.3	399	0.4	363	0.4
Elective caesarean section	16649	17.5	16849	17.7	17638	18.4	18253	18.6	17818	18.7
Emergency caesarean section [†]	12065	12.7	12099	12.7	12391	12.9	12305	12.5	12236	12.8
Not stated	0	0.0	25	0.0	37	0.0	18	0.0	2	0.0
TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	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 2009–2013^a

Insurance status–type of birth		Year									
		2009		2010		2011		2012		2013	
		No.	%	No.	%	No.	%	No.	%	No.	%
PUBLIC	Normal vaginal	39668	64.6	39468	63.8	39451	63.3	40562	63.3	38877	63.0
	Forceps	1914	3.1	2366	3.8	2400	3.8	2734	4.3	2788	4.5
	Vacuum extraction	3907	6.4	3822	6.2	3715	6.0	3783	5.9	3495	5.7
	Vaginal breech	270	0.4	247	0.4	245	0.4	313	0.5	270	0.4
	Elective caesarean section	8242	13.4	8464	13.7	8784	14.1	9158	14.3	8726	14.1
	Emergency caesarean section [†]	7438	12.1	7518	12.1	7757	12.4	7560	11.8	7597	12.3
	Not stated	0	0.0	7	0.0	14	0.0	7	0.0	0	0.0
	TOTAL	61439	100.0	61892	100.0	62366	100.0	64117	100.0	61753	100.0
PRIVATE	Normal vaginal	15573	46.6	15235	46.2	14915	44.9	15356	45.3	14666	45.2
	Forceps	1465	4.4	1472	4.5	1523	4.6	1451	4.3	1501	4.6
	Vacuum extraction	3316	9.9	3249	9.8	3274	9.9	3191	9.4	2919	9.0
	Vaginal breech	84	0.3	84	0.3	70	0.2	83	0.2	81	0.2
	Elective caesarean section	8388	25.1	8368	25.4	8822	26.5	9081	26.8	8827	27.2
	Emergency caesarean section [†]	4602	13.8	4566	13.8	4606	13.9	4736	14.0	4422	13.6
	Not stated	0	0.0	18	0.1	22	0.1	9	0.0	2	0.0
	TOTAL	33428	100.0	32992	100.0	33232	100.0	33907	100.0	32418	100.0
TOTAL^a	Normal vaginal	55359	58.2	54774	57.7	54516	56.9	55993	57.1	54269	56.8
	Forceps	3383	3.6	3843	4.0	3932	4.1	4192	4.3	4349	4.6
	Vacuum extraction	7232	7.6	7074	7.4	7005	7.3	6981	7.1	6500	6.8
	Vaginal breech	355	0.4	332	0.3	316	0.3	399	0.4	363	0.4
	Elective caesarean section	16649	17.5	16849	17.7	17638	18.4	18253	18.6	17818	18.7
	Emergency caesarean section [†]	12065	12.7	12099	12.7	12391	12.9	12305	12.5	12236	12.8
	Not stated	0	0.0	25	0.0	37	0.0	18	0.0	2	0.0
	TOTAL	95043	100.0	94996	100.0	95835	100.0	98141	100.0	95537	100.0

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

^a Figures for 2009 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 2009, with slightly more male babies born than females in each year. In 2013, 49,980 (51.6%) babies were male, 46,966 (48.4%) were female, and 6 were of indeterminate sex. This compares with babies born in 2009, when 49,362 (51.2%) babies were male, 47,063 (48.8%) were female, and 14 were of indeterminate sex.

Gestational age

In 2013, 7.6% of babies were born prematurely (less than 37 weeks gestation), about the same percentage as in 2009 (7.3%; 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 0.8% in 2009 and 0.5% in 2013.

TABLE 15: GESTATIONAL AGE, NSW 2009–2013

Gestational age (weeks)	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
< 28	705	0.7	665	0.7	726	0.7	686	0.7	690	0.7
28–31	660	0.7	676	0.7	676	0.7	679	0.7	659	0.7
32–36	5697	5.9	5762	6.0	5872	6.0	6184	6.2	6059	6.2
37–41	88596	91.9	88649	91.9	89298	91.8	91388	91.8	89086	91.9
42 +	775	0.8	733	0.8	660	0.7	569	0.6	466	0.5
Not stated	6	0.0	4	0.0	13	0.0	4	0.0	11	0.0
TOTAL	96439	100.0	96489	100.0	97245	100.0	99510	100.0	96971	100.0

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

Birth weight

Since 2009, the pattern of birth weights has remained stable, with the rate of low birth weight (less than 2,500 grams) ranging from 6.0% to 6.3% (Table 16). The rate of low birth weight was 6.3% in 2013.

TABLE 16: BIRTH WEIGHT, NSW 2009–2013

Birth weight (grams)	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Less than 500	259	0.3	210	0.2	253	0.3	252	0.3	232	0.2
500–999	402	0.4	408	0.4	443	0.5	428	0.4	413	0.4
1000–1499	501	0.5	541	0.6	538	0.6	521	0.5	524	0.5
1500–1999	1081	1.1	1120	1.2	1084	1.1	1166	1.2	1129	1.2
2000–2499	3541	3.7	3621	3.8	3684	3.8	3714	3.7	3856	4.0
2500–2999	14316	14.8	14648	15.2	14776	15.2	15356	15.4	15089	15.6
3000–3499	34902	36.2	35008	36.3	35362	36.4	36647	36.8	36118	37.2
3500–3999	29884	31.0	29575	30.7	29916	30.8	30171	30.3	29191	30.1
4000–4499	9787	10.1	9654	10.0	9516	9.8	9571	9.6	8860	9.1
4500+	1692	1.8	1645	1.7	1567	1.6	1618	1.6	1460	1.5
Not stated	74	0.1	59	0.1	106	0.1	66	0.1	99	0.1
TOTAL	96439	100.0	96489	100.0	97245	100.0	99510	100.0	96971	100.0

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

Apgar score

In 2013, 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 2009–2013[#]

Apgar score	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
0–4	1088	1.1	1051	1.1	1096	1.1	1052	1.1	1053	1.1
5–6	901	0.9	959	1.0	1019	1.0	1145	1.2	1184	1.2
7+	94175	97.7	94201	97.6	94834	97.5	97081	97.6	94673	97.6
Not stated	275	0.3	278	0.3	296	0.3	232	0.2	61	0.1
TOTAL	96439	100.0	96489	100.0	97245	100.0	99510	100.0	96971	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 93.4% in 2009 to 94.3% in 2013 (Table 18).

TABLE 18: HEPATITIS B DOSE GIVEN TO LIVEBORN BABIES, NSW 2009–2013

Hepatitis B dose given	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
No	6281	6.6	6053	6.3	6097	6.3	5882	5.9	5441	5.6
Yes	89532	93.4	89772	93.6	90338	93.5	92957	94.0	90921	94.3
Not stated	24	0.0	96	0.1	152	0.2	36	0.0	26	0.0
TOTAL	95837	100.0	95921	100.0	96587	100.0	98875	100.0	96388	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 was 80.5% in 2009 and 79.8% in 2013. The percentage of babies that received any breastfeeding rose from 6.7% in 2009 to 8.8% in 2013. In the same 5-year period, the percentage of babies receiving infant formula only fell from 12.1% to 10.3% (Table 19).

TABLE 19: LIVE BIRTHS BY TYPE OF INFANT FEEDING, NSW 2009–2013

Infant feeding	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Full breast-feeding	77155	80.5	76757	80.0	79256	82.1	81154	82.1	76912	79.8
Any breast-feeding	6423	6.7	7184	7.5	5889	6.1	6709	6.8	8457	8.8
Infant formula only	11559	12.1	11159	11.6	10308	10.7	10163	10.3	9935	10.3
Not stated	700	0.7	821	0.9	1134	1.2	849	0.9	1084	1.1
TOTAL	95837	100.0	95921	100.0	96587	100.0	98875	100.0	96388	100.0

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

Perinatal outcome

Across the period 2009–2013 the perinatal mortality rate decreased from 8.7 to 8.0 per 1,000 births (Table 20). In 2013, 72.6% of all reported perinatal deaths were stillbirths and 27.4% were neonatal deaths.

In 2013, of the 774 perinatal deaths in NSW, 751 (97.0%) were reported among planned hospital births, 15 (1.9%) among planned birth centre births, 1 was reported from a woman who planned to give birth in a birth centre but gave birth in hospital, 7 were among babies born before arrival at hospital, and none were reported in a planned home birth.

TABLE 20: PERINATAL OUTCOMES, NSW 2009–2013[#]

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.	%
2009	95595	99.1	598	0.6	240	0.2	2	0.0	4	0.0	96439	100.0		8.7
2010	95675	99.2	555	0.6	239	0.2	7	0.0	13	0.0	96489	100.0		8.2
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

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 1990–2012, 218 deaths were reported among pregnant women or women who gave birth less than 6 weeks previously. Of these, 65 (29.8%) died of incidental causes not related to the pregnancy or its management, 92 (42.2%) deaths were found to be directly due to pregnancy or its management, and 58 (26.6%) 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. Refer to Tables 21 and 22 in the *NSW Mothers and Babies 2012* report for more information. The 2012 report can be downloaded from the NSW Ministry of Health website at www.health.nsw.gov.au/hsnsw/Pages/Mothers-and-Babies-Reports.aspx.

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 2013 were resident in the Western Sydney Local Health District (n = 14,515, 15.2%), followed by the South Western Sydney Local Health District (n = 12,842, 13.4%) and the South Eastern Sydney Local Health District (n = 11,396, 11.9%) (Table 21).

Maternal age

In 2013, 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 9.3% in the Far West Local Health District, while the proportion of mothers giving birth at 35 years of age or more ranged from 11.1% in the Far West Local Health District to 38.4% in the Northern Sydney Local Health District (Table 21).

TABLE 21: MATERNAL AGE BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013

Local Health District	Maternal age (Years)																	
	12-19		20-24		25-29		30-34		35-39		40-44		45+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	57	0.7	507	6.1	1753	21.0	3280	39.4	2173	26.1	530	6.4	31	0.4	0	0.0	8331	100.0
South Western Sydney	329	2.6	1996	15.5	4055	31.6	4056	31.6	1922	15.0	455	3.5	29	0.2	0	0.0	12842	100.0
South Eastern Sydney	85	0.7	605	5.3	2439	21.4	4515	39.6	2969	26.1	741	6.5	39	0.3	3	0.0	11396	100.0
Illawarra Shoalhaven	179	4.1	648	14.7	1333	30.3	1407	32.0	667	15.2	150	3.4	13	0.3	1	0.0	4398	100.0
Western Sydney	347	2.4	1793	12.4	4362	30.1	5108	35.2	2349	16.2	537	3.7	18	0.1	1	0.0	14515	100.0
Nepean Blue Mountains	191	4.0	755	15.9	1507	31.8	1417	29.9	702	14.8	158	3.3	13	0.3	0	0.0	4743	100.0
Northern Sydney	31	0.3	293	2.8	1680	16.3	4348	42.2	3140	30.5	767	7.4	48	0.5	3	0.0	10310	100.0
Central Coast	158	4.0	627	16.0	1124	28.7	1257	32.0	596	15.2	151	3.9	8	0.2	1	0.0	3922	100.0
Hunter New England	580	5.3	2076	19.0	3268	29.9	3190	29.2	1439	13.2	352	3.2	19	0.2	7	0.1	10931	100.0
Northern NSW	167	6.0	553	19.9	794	28.5	769	27.6	380	13.6	117	4.2	5	0.2	0	0.0	2785	100.0
Mid North Coast	156	7.0	420	18.8	660	29.5	594	26.6	324	14.5	77	3.4	4	0.2	0	0.0	2235	100.0
Southern NSW	63	4.6	272	19.9	396	28.9	385	28.1	204	14.9	46	3.4	1	0.1	1	0.1	1368	100.0
Murrumbidgee	154	6.7	473	20.5	723	31.4	618	26.8	275	11.9	56	2.4	6	0.3	0	0.0	2305	100.0
Western NSW	293	7.9	803	21.7	1130	30.5	924	24.9	467	12.6	86	2.3	3	0.1	1	0.0	3707	100.0
Far West	21	9.3	52	23.0	66	29.2	62	27.4	17	7.5	8	3.5	0	0.0	0	0.0	226	100.0
Other-not stated	36	2.4	224	14.7	511	33.6	481	31.6	217	14.2	51	3.3	3	0.2	0	0.0	1523	100.0
TOTAL	2847	3.0	12097	12.7	25801	27.0	32411	33.9	17841	18.7	4282	4.5	240	0.3	18	0.0	95537	100.0

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

Maternal country of birth

Seventy-one per cent of women who gave birth in NSW in 2013 were born in English speaking countries, 17.7% were born in Asian countries, and 5.0% were born in the Middle East or Africa (Table 22). 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 22: MATERNAL COUNTRY OF BIRTH GROUP BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013

Local Health District	Country of birth																					
	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	4703	56.5	125	1.5	87	1.0	87	1.0	102	1.2	89	1.1	478	5.7	678	8.1	1077	12.9	801	9.6	8331	100.0
South Western Sydney	7584	59.1	157	1.2	414	3.2	225	1.8	44	0.3	104	0.8	1772	13.8	1606	12.5	362	2.8	547	4.3	12842	100.0
South Eastern Sydney	7447	65.3	202	1.8	85	0.7	178	1.6	213	1.9	233	2.0	438	3.8	717	6.3	1153	10.1	569	5.0	11396	100.0
Illawarra Shoalhaven	3949	89.8	27	0.6	17	0.4	33	0.8	31	0.7	16	0.4	96	2.2	99	2.3	63	1.4	43	1.0	4398	100.0
Western Sydney	7051	48.6	112	0.8	382	2.6	95	0.7	51	0.4	360	2.5	1316	9.1	979	6.7	1452	10.0	2655	18.3	14515	100.0
Nepean Blue Mountains	4129	87.1	21	0.4	61	1.3	21	0.4	18	0.4	34	0.7	139	2.9	124	2.6	59	1.2	123	2.6	4743	100.0
Northern Sydney	6835	66.3	183	1.8	61	0.6	86	0.8	224	2.2	194	1.9	218	2.1	570	5.5	1306	12.7	485	4.7	10310	100.0
Central Coast	3633	92.6	23	0.6	17	0.4	6	0.2	22	0.6	20	0.5	16	0.4	62	1.6	55	1.4	44	1.1	3922	100.0
Hunter New England	10205	93.4	30	0.3	30	0.3	23	0.2	42	0.4	28	0.3	105	1.0	160	1.5	95	0.9	137	1.3	10931	100.0
Northern NSW	2548	91.5	15	0.5	7	0.3	4	0.1	34	1.2	6	0.2	16	0.6	42	1.5	27	1.0	28	1.0	2785	100.0
Mid North Coast	2059	92.1	7	0.3	5	0.2	3	0.1	13	0.6	2	0.1	29	1.3	31	1.4	17	0.8	39	1.7	2235	100.0
Southern NSW	1265	92.5	2	0.1	10	0.7	5	0.4	7	0.5	1	0.1	7	0.5	23	1.7	14	1.0	23	1.7	1368	100.0
Murrumbidgee	2097	91.0	3	0.1	17	0.7	5	0.2	9	0.4	6	0.3	41	1.8	27	1.2	19	0.8	78	3.4	2305	100.0
Western NSW	3537	95.4	6	0.2	10	0.3	2	0.1	8	0.2	2	0.1	23	0.6	39	1.1	24	0.6	48	1.3	3707	100.0
Far West	214	94.7	0	0.0	0	0.0	2	0.9	0	0.0	0	0.0	1	0.4	4	1.8	0	0.0	5	2.2	226	100.0
Other-not stated	927	60.9	30	2.0	31	2.0	16	1.1	26	1.7	17	1.1	55	3.6	112	7.4	93	6.1	195	12.8	1523	100.0
TOTAL	68183	71.4	943	1.0	1234	1.3	791	0.8	844	0.9	1112	1.2	4750	5.0	5273	5.5	5816	6.1	5820	6.1	95537	100.0

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

† Includes 771 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 2013, 3.7% of mothers were reported to be Aboriginal or Torres Strait Islander (Table 23). The reported proportion of Aboriginal or Torres Strait Islander mothers varied from 0.3% in the Northern Sydney Local Health District to 20.4% in Far West Local Health District.

TABLE 23: ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013

Local Health District	Aboriginal and Torres Strait Islander							
	Aboriginal or Torres Strait Islander		Non-Aboriginal or Torres Strait Islander		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%
Sydney	90	1.1	8241	98.9	0	0.0	8331	100.0
South Western Sydney	199	1.5	12642	98.4	1	0.0	12842	100.0
South Eastern Sydney	92	0.8	11303	99.2	1	0.0	11396	100.0
Illawarra Shoalhaven	227	5.2	4171	94.8	0	0.0	4398	100.0
Western Sydney	256	1.8	14258	98.2	1	0.0	14515	100.0
Nepean Blue Mountains	193	4.1	4549	95.9	1	0.0	4743	100.0
Northern Sydney	28	0.3	10281	99.7	1	0.0	10310	100.0
Central Coast	188	4.8	3733	95.2	1	0.0	3922	100.0
Hunter New England	893	8.2	9987	91.4	51	0.5	10931	100.0
Northern NSW	257	9.2	2528	90.8	0	0.0	2785	100.0
Mid North Coast	228	10.2	2007	89.8	0	0.0	2235	100.0
Southern NSW	64	4.7	1304	95.3	0	0.0	1368	100.0
Murrumbidgee	160	6.9	2145	93.1	0	0.0	2305	100.0
Western NSW	548	14.8	3159	85.2	0	0.0	3707	100.0
Far West	46	20.4	180	79.6	0	0.0	226	100.0
Other—not stated	23	1.5	1498	98.4	2	0.1	1523	100.0
TOTAL	3492	3.7	91986	96.3	59	0.1	95537	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 2013, 84.0% of mothers commenced antenatal care prior to 20 weeks gestation and 60.0% commenced antenatal care prior to 14 weeks gestation. The percentage of mothers commencing antenatal care prior to 20 weeks gestation varied from 61.5% in the Southern NSW Local Health District to 92.6% in the Sydney Local Health District (Table 24).

TABLE 24: DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013

Local Health District	Duration of pregnancy at first antenatal visit (weeks)									
	0–13		14–19		20–plus		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	6010	72.1	1707	20.5	603	7.2	11	0.1	8331	100.0
South Western Sydney	7004	54.5	3541	27.6	2271	17.7	26	0.2	12842	100.0
South Eastern Sydney	7244	63.6	3098	27.2	1026	9.0	28	0.2	11396	100.0
Illawarra Shoalhaven	1625	36.9	1444	32.8	1322	30.1	7	0.2	4398	100.0
Western Sydney	8476	58.4	3709	25.6	2283	15.7	47	0.3	14515	100.0
Nepean Blue Mountains	2457	51.8	1462	30.8	810	17.1	14	0.3	4743	100.0
Northern Sydney	6443	62.5	3085	29.9	768	7.4	14	0.1	10310	100.0
Central Coast	1805	46.0	1219	31.1	887	22.6	11	0.3	3922	100.0
Hunter New England	6827	62.5	1574	14.4	1981	18.1	549	5.0	10931	100.0
Northern NSW	2129	76.4	353	12.7	296	10.6	7	0.3	2785	100.0
Mid North Coast	1819	81.4	234	10.5	175	7.8	7	0.3	2235	100.0
Southern NSW	494	36.1	347	25.4	524	38.3	3	0.2	1368	100.0
Murrumbidgee	1303	56.5	398	17.3	594	25.8	10	0.4	2305	100.0
Western NSW	2570	69.3	476	12.8	637	17.2	24	0.6	3707	100.0
Far West	141	62.4	55	24.3	27	11.9	3	1.3	226	100.0
Other—not stated	989	64.9	214	14.1	303	19.9	17	1.1	1523	100.0
TOTAL	57336	60.0	22916	24.0	14507	15.2	778	0.8	95537	100.0

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

Smoking in pregnancy

In 2013, 7.2% of mothers reported smoking in the second half of pregnancy (Table 25). The lowest rate was reported among mothers resident in the Northern Sydney Local Health District (0.9%) and the highest rate was reported among residents of the Far West Local Health District (31.0%).

TABLE 25: CIGARETTES SMOKED IN THE SECOND HALF OF PREGNANCY BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013

Local Health District	Cigarettes smoked in the second half of pregnancy										TOTAL	
	None		1–10 per day		> 10 per day		Smoked, amount not stated		Not stated			
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	8176	98.1	121	1.5	34	0.4	0	0.0	0	0.0	8331	100.0
South Western Sydney	12020	93.6	631	4.9	187	1.5	4	0.0	0	0.0	12842	100.0
South Eastern Sydney	11212	98.4	144	1.3	27	0.2	13	0.1	0	0.0	11396	100.0
Illawarra Shoalhaven	3959	90.0	331	7.5	88	2.0	20	0.5	0	0.0	4398	100.0
Western Sydney	13827	95.3	510	3.5	133	0.9	45	0.3	0	0.0	14515	100.0
Nepean Blue Mountains	4289	90.4	326	6.9	104	2.2	24	0.5	0	0.0	4743	100.0
Northern Sydney	10220	99.1	71	0.7	10	0.1	9	0.1	0	0.0	10310	100.0
Central Coast	3484	88.8	309	7.9	109	2.8	20	0.5	0	0.0	3922	100.0
Hunter New England	9396	86.0	1106	10.1	372	3.4	56	0.5	1	0.0	10931	100.0
Northern NSW	2442	87.7	265	9.5	60	2.2	18	0.6	0	0.0	2785	100.0
Mid North Coast	1901	85.1	255	11.4	61	2.7	18	0.8	0	0.0	2235	100.0
Southern NSW	1139	83.3	164	12.0	59	4.3	6	0.4	0	0.0	1368	100.0
Murrumbidgee	1959	85.0	248	10.8	91	3.9	7	0.3	0	0.0	2305	100.0
Western NSW	3071	82.8	476	12.8	142	3.8	18	0.5	0	0.0	3707	100.0
Far West	156	69.0	51	22.6	18	8.0	1	0.4	0	0.0	226	100.0
Other—not stated	1446	94.9	61	4.0	15	1.0	1	0.1	0	0.0	1523	100.0
TOTAL	88697	92.8	5069	5.3	1510	1.6	260	0.3	1	0.0	95537	100.0

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

Place of birth

Ninety-six per cent of mothers chose to give birth in a hospital birthing suite in 2013, compared to 2.9% who planned a birth centre birth and 0.2% who planned a home birth (Table 26). Planned birth centre births were most commonly reported in the Hunter New England Local Health District.

TABLE 26: PLACE OF BIRTH BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013

Local Health District	Place of birth										TOTAL			
	Hospital		Birth centre		Planned birth centre—hospital admission		Planned home-birth		Planned homebirth—hospital admission				Born before arrival	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	7891	94.7	394	4.7	4	0.0	4	0.0	3	0.0	35	0.4	8331	100.0
South Western Sydney	12722	99.1	35	0.3	9	0.1	7	0.1	0	0.0	69	0.5	12842	100.0
South Eastern Sydney	10888	95.5	368	3.2	72	0.6	26	0.2	2	0.0	40	0.4	11396	100.0
Illawarra Shoalhaven	4326	98.4	42	1.0	1	0.0	10	0.2	3	0.1	16	0.4	4398	100.0
Western Sydney	14140	97.4	271	1.9	19	0.1	6	0.0	0	0.0	79	0.5	14515	100.0
Nepean Blue Mountains	4660	98.3	42	0.9	5	0.1	10	0.2	1	0.0	25	0.5	4743	100.0
Northern Sydney	10056	97.5	170	1.6	9	0.1	28	0.3	3	0.0	44	0.4	10310	100.0
Central Coast	3735	95.2	131	3.3	11	0.3	5	0.1	0	0.0	40	1.0	3922	100.0
Hunter New England	9881	90.4	719	6.6	180	1.6	64	0.6	4	0.0	83	0.8	10931	100.0
Northern NSW	2586	92.9	123	4.4	5	0.2	40	1.4	0	0.0	31	1.1	2785	100.0
Mid North Coast	2188	97.9	17	0.8	3	0.1	7	0.3	1	0.0	19	0.9	2235	100.0
Southern NSW	1339	97.9	10	0.7	9	0.7	1	0.1	0	0.0	9	0.7	1368	100.0
Murrumbidgee	2254	97.8	11	0.5	18	0.8	1	0.0	1	0.0	20	0.9	2305	100.0
Western NSW	3640	98.2	31	0.8	7	0.2	5	0.1	1	0.0	23	0.6	3707	100.0
Far West	219	96.9	5	2.2	1	0.4	1	0.4	0	0.0	0	0.0	226	100.0
Other—not stated	1487	97.6	23	1.5	1	0.1	2	0.1	0	0.0	10	0.7	1523	100.0
TOTAL	92012	96.3	2392	2.5	354	0.4	217	0.2	19	0.0	543	0.6	95537	100.0

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

Labour

In 2013, the onset of labour was spontaneous in 52.2% of confinements (Table 27). Labour was induced in 29.2% of confinements and no labour (elective caesarean section) was reported in 18.7%. The rate of spontaneous onset of labour was highest among residents of the Southern NSW Local Health District (62.0%). The highest rate of induction of labour was among residents of the Nepean Blue Mountains Local Health District (33.2%).

TABLE 27: ONSET AND AUGMENTATION OF LABOUR BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013

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	3034	36.4	325	3.9	1020	12.2	1678	20.1	800	9.6	191	2.3	1275	15.3	8	0.1	0	0.0	8331	100.0
South Western Sydney	5052	39.3	1018	7.9	1076	8.4	2230	17.4	1431	11.1	172	1.3	1835	14.3	28	0.2	0	0.0	12842	100.0
South Eastern Sydney	3834	33.6	819	7.2	1040	9.1	2410	21.1	1212	10.6	274	2.4	1789	15.7	18	0.2	0	0.0	11396	100.0
Illawarra Shoalhaven	1502	34.2	336	7.6	327	7.4	782	17.8	383	8.7	114	2.6	943	21.4	11	0.3	0	0.0	4398	100.0
Western Sydney	5013	34.5	1096	7.6	1355	9.3	2601	17.9	1417	9.8	161	1.1	2847	19.6	25	0.2	0	0.0	14515	100.0
Nepean Blue Mountains	1700	35.8	306	6.5	235	5.0	925	19.5	555	11.7	88	1.9	923	19.5	11	0.2	0	0.0	4743	100.0
Northern Sydney	3699	35.9	644	6.2	796	7.7	2317	22.5	961	9.3	279	2.7	1607	15.6	7	0.1	0	0.0	10310	100.0
Central Coast	1333	34.0	226	5.8	378	9.6	740	18.9	494	12.6	48	1.2	696	17.7	7	0.2	0	0.0	3922	100.0
Hunter New England	4409	40.3	507	4.6	721	6.6	1784	16.3	1222	11.2	200	1.8	2051	18.8	34	0.3	3	0.0	10931	100.0
Northern NSW	1368	49.1	139	5.0	208	7.5	369	13.2	289	10.4	55	2.0	355	12.7	2	0.1	0	0.0	2785	100.0
Mid North Coast	1026	45.9	108	4.8	150	6.7	388	17.4	215	9.6	42	1.9	305	13.6	1	0.0	0	0.0	2235	100.0
Southern NSW	667	48.8	82	6.0	99	7.2	197	14.4	162	11.8	49	3.6	111	8.1	1	0.1	0	0.0	1368	100.0
Murrumbidgee	1030	44.7	90	3.9	96	4.2	451	19.6	289	12.5	75	3.3	272	11.8	2	0.1	0	0.0	2305	100.0
Western NSW	1539	41.5	183	4.9	194	5.2	688	18.6	412	11.1	112	3.0	578	15.6	1	0.0	0	0.0	3707	100.0
Far West	110	48.7	16	7.1	9	4.0	37	16.4	25	11.1	7	3.1	22	9.7	0	0.0	0	0.0	226	100.0
Other-not stated	654	42.9	70	4.6	184	12.1	221	14.5	161	10.6	17	1.1	213	14.0	3	0.2	0	0.0	1523	100.0
TOTAL	35970	37.7	5965	6.2	7888	8.3	17818	18.7	10028	10.5	1884	2.0	15822	16.6	159	0.2	3	0.0	95537	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-seven percent of births were normal vaginal births in 2013, 11.4% were instrumental and 31.5% were by caesarean section (Table 28). The highest rate of normal vaginal birth was 67.1% among residents of the Northern NSW 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 24.5% among mothers resident in the Northern NSW Local Health District to 37.0% in the Northern Sydney Local Health District.

TABLE 28: TYPE OF BIRTH BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013

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	4352	52.2	539	6.5	605	7.3	22	0.3	1678	20.1	1135	13.6	0	0.0	8331	100.0
South Western Sydney	8251	64.3	331	2.6	733	5.7	46	0.4	2230	17.4	1251	9.7	0	0.0	12842	100.0
South Eastern Sydney	5718	50.2	710	6.2	1049	9.2	32	0.3	2410	21.1	1476	13.0	1	0.0	11396	100.0
Illawarra Shoalhaven	2521	57.3	102	2.3	379	8.6	13	0.3	782	17.8	601	13.7	0	0.0	4398	100.0
Western Sydney	8199	56.5	808	5.6	909	6.3	86	0.6	2601	17.9	1912	13.2	0	0.0	14515	100.0
Nepean Blue Mountains	2578	54.4	110	2.3	362	7.6	15	0.3	925	19.5	753	15.9	0	0.0	4743	100.0
Northern Sydney	5103	49.5	616	6.0	753	7.3	26	0.3	2317	22.5	1494	14.5	1	0.0	10310	100.0
Central Coast	2113	53.9	236	6.0	268	6.8	21	0.5	740	18.9	544	13.9	0	0.0	3922	100.0
Hunter New England	6605	60.4	422	3.9	673	6.2	49	0.4	1784	16.3	1398	12.8	0	0.0	10931	100.0
Northern NSW	1868	67.1	104	3.7	120	4.3	10	0.4	369	13.2	314	11.3	0	0.0	2785	100.0
Mid North Coast	1410	63.1	67	3.0	113	5.1	6	0.3	388	17.4	251	11.2	0	0.0	2235	100.0
Southern NSW	868	63.5	74	5.4	77	5.6	5	0.4	197	14.4	147	10.7	0	0.0	1368	100.0
Murrumbidgee	1343	58.3	31	1.3	154	6.7	8	0.3	451	19.6	318	13.8	0	0.0	2305	100.0
Western NSW	2284	61.6	105	2.8	189	5.1	13	0.4	688	18.6	428	11.5	0	0.0	3707	100.0
Far West	145	64.2	18	8.0	1	0.4	1	0.4	37	16.4	24	10.6	0	0.0	226	100.0
Other-not stated	911	59.8	76	5.0	115	7.6	10	0.7	221	14.5	190	12.5	0	0.0	1523	100.0
TOTAL	54269	56.8	4349	4.6	6500	6.8	363	0.4	17818	18.7	12236	12.8	2	0.0	95537	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 2013, 6.3% 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, 0.5% in the 1,000 to 1,499 gram range and 5.1% in the 1,500 to 2,499 gram range (Table 29). Rates of low birth weight ranged from 4.4% in the Far West Local Health District to 7.8% in the Mid North Coast Local Health District.

TABLE 29: BIRTH WEIGHT BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013

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	23	0.3	33	0.4	39	0.5	95	1.1	333	3.9	1459	17.3	3368	39.8	2379	28.1	623	7.4	91	1.1	10	0.1	8453	100.0
South Western Sydney	23	0.2	70	0.5	60	0.5	173	1.3	543	4.2	2142	16.4	4916	37.7	3789	29.0	1133	8.7	196	1.5	12	0.1	13057	100.0
South Eastern Sydney	27	0.2	47	0.4	50	0.4	139	1.2	413	3.6	1887	16.3	4565	39.4	3423	29.5	900	7.8	132	1.1	5	0.0	11588	100.0
Illawarra Shoalhaven	7	0.2	17	0.4	18	0.4	58	1.3	175	3.9	636	14.3	1604	36.0	1459	32.8	408	9.2	70	1.6	2	0.0	4454	100.0
Western Sydney	44	0.3	67	0.5	92	0.6	151	1.0	614	4.2	2609	17.7	5675	38.5	4106	27.9	1167	7.9	188	1.3	11	0.1	14724	100.0
Nepean Blue Mountains	19	0.4	24	0.5	35	0.7	60	1.2	195	4.0	682	14.1	1698	35.2	1519	31.5	493	10.2	96	2.0	2	0.0	4823	100.0
Northern Sydney	21	0.2	37	0.4	61	0.6	114	1.1	366	3.5	1544	14.7	4031	38.5	3184	30.4	963	9.2	149	1.4	12	0.1	10482	100.0
Central Coast	9	0.2	13	0.3	19	0.5	46	1.2	158	4.0	527	13.2	1355	34.0	1309	32.9	458	11.5	77	1.9	10	0.3	3981	100.0
Hunter New England	24	0.2	59	0.5	86	0.8	146	1.3	473	4.3	1559	14.1	3822	34.4	3546	32.0	1158	10.4	207	1.9	16	0.1	11096	100.0
Northern NSW	6	0.2	10	0.4	6	0.2	19	0.7	116	4.1	363	12.9	981	34.9	921	32.8	328	11.7	59	2.1	3	0.1	2812	100.0
Mid North Coast	7	0.3	7	0.3	11	0.5	34	1.5	117	5.2	306	13.5	766	33.7	703	31.0	271	11.9	45	2.0	4	0.2	2271	100.0
Southern NSW	1	0.1	6	0.4	3	0.2	10	0.7	42	3.1	167	12.2	485	35.3	460	33.5	177	12.9	21	1.5	2	0.1	1374	100.0
Murrumbidgee	5	0.2	4	0.2	14	0.6	23	1.0	84	3.6	336	14.4	836	35.8	727	31.2	260	11.1	40	1.7	4	0.2	2333	100.0
Western NSW	10	0.3	11	0.3	22	0.6	42	1.1	176	4.7	585	15.6	1366	36.3	1130	30.1	351	9.3	65	1.7	2	0.1	3760	100.0
Far West	1	0.4	0	0.0	1	0.4	0	0.0	8	3.5	45	19.8	82	36.1	71	31.3	19	8.4	0	0.0	0	0.0	227	100.0
Other—not stated	5	0.3	8	0.5	7	0.5	19	1.2	43	2.8	242	15.8	568	37.0	465	30.3	151	9.8	24	1.6	4	0.3	1536	100.0
TOTAL	232	0.2	413	0.4	524	0.5	1129	1.2	3856	4.0	15089	15.6	36118	37.2	29191	30.1	8860	9.1	1460	1.5	99	0.1	96971	100.0

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

Gestational age

The majority of births (91.9%) were at term, and 0.5% were post-term (42-plus weeks). The 7.6% of preterm births comprised 0.7% born at less than 28 weeks, 0.7% at 28–31 weeks, and 6.2% at 32–36 weeks. The highest rate of preterm birth was 9.8% in the Western NSW Local Health District, while the lowest was 3.5% in the Far West Local Health District (Table 30).

TABLE 30: GESTATIONAL AGE BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013

Local Health District	Gestational age (weeks)											TOTAL		
	< 28		28–31		32–36		37–41		42 +		Not stated		No.	%
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	60	0.7	48	0.6	501	5.9	7813	92.4	31	0.4	0	0.0	8453	100.0
South Western Sydney	92	0.7	99	0.8	788	6.0	12039	92.2	39	0.3	0	0.0	13057	100.0
South Eastern Sydney	73	0.6	78	0.7	707	6.1	10674	92.1	55	0.5	1	0.0	11588	100.0
Illawarra Shoalhaven	25	0.6	28	0.6	285	6.4	4099	92.0	17	0.4	0	0.0	4454	100.0
Western Sydney	116	0.8	94	0.6	836	5.7	13651	92.7	26	0.2	1	0.0	14724	100.0
Nepean Blue Mountains	46	1.0	45	0.9	349	7.2	4367	90.5	15	0.3	1	0.0	4823	100.0
Northern Sydney	60	0.6	67	0.6	601	5.7	9710	92.6	44	0.4	0	0.0	10482	100.0
Central Coast	26	0.7	23	0.6	275	6.9	3639	91.4	18	0.5	0	0.0	3981	100.0
Hunter New England	92	0.8	100	0.9	769	6.9	10054	90.6	75	0.7	6	0.1	11096	100.0
Northern NSW	18	0.6	6	0.2	184	6.5	2567	91.3	37	1.3	0	0.0	2812	100.0
Mid North Coast	18	0.8	18	0.8	150	6.6	2060	90.7	23	1.0	2	0.1	2271	100.0
Southern NSW	10	0.7	3	0.2	47	3.4	1295	94.3	19	1.4	0	0.0	1374	100.0
Murrumbidgee	13	0.6	9	0.4	168	7.2	2123	91.0	20	0.9	0	0.0	2333	100.0
Western NSW	23	0.6	29	0.8	318	8.5	3359	89.3	31	0.8	0	0.0	3760	100.0
Far West	1	0.4	1	0.4	6	2.6	217	95.6	2	0.9	0	0.0	227	100.0
Other—not stated	17	1.1	11	0.7	75	4.9	1419	92.4	14	0.9	0	0.0	1536	100.0
TOTAL	690	0.7	659	0.7	6059	6.2	89086	91.9	466	0.5	11	0.0	96971	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 97.9% in South Western Sydney, while the lowest was 82.3% in Northern NSW (Table 31).

TABLE 31: HEPATITIS B DOSE GIVEN TO LIVEBORN BABIES, NSW 2013

Local Health District	Hepatitis B dose given							
	No		Yes		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%
Sydney	521	6.2	7884	93.8	2	0.0	8407	100.0
South Western Sydney	269	2.1	12715	97.9	0	0.0	12984	100.0
South Eastern Sydney	1068	9.3	10461	90.7	3	0.0	11532	100.0
Illawarra Shoalhaven	171	3.9	4257	96.1	0	0.0	4428	100.0
Western Sydney	548	3.7	14090	96.2	1	0.0	14639	100.0
Nepean Blue Mountains	304	6.3	4484	93.7	0	0.0	4788	100.0
Northern Sydney	822	7.9	9597	92.1	2	0.0	10421	100.0
Central Coast	169	4.3	3788	95.7	1	0.0	3958	100.0
Hunter New England	420	3.8	10592	96.1	15	0.1	11027	100.0
Northern NSW	495	17.7	2295	82.3	0	0.0	2790	100.0
Mid North Coast	212	9.4	2039	90.6	0	0.0	2251	100.0
Southern NSW	87	6.4	1276	93.5	2	0.1	1365	100.0
Murrumbidgee	75	3.2	2241	96.8	0	0.0	2316	100.0
Western NSW	127	3.4	3609	96.6	0	0.0	3736	100.0
Far West	5	2.2	220	97.8	0	0.0	225	100.0
Other-not stated	148	9.7	1373	90.3	0	0.0	1521	100.0
TOTAL	5441	5.6	90921	94.3	26	0.0	96388	100.0

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

Infant feeding

In 2013, infant feeding on discharge from hospital was reported for 95,304 liveborn babies (Table 32). The majority of babies (79.8%) were reported to be fully breastfed, 10.3% were receiving infant formula only, and a further 8.8% were being partially breastfed. Rates of full breastfeeding varied from 71.6% in the South Western Sydney Local Health District to 88.3% in the Northern NSW Local Health District.

TABLE 32: LIVE BIRTHS BY INFANT FEEDING ON DISCHARGE AND LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013

Local Health District	Infant feeding									
	Full breast-feeding		Any breast-feeding		Infant formula only		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	7229	86.0	667	7.9	412	4.9	99	1.2	8407	100.0
South Western Sydney	9298	71.6	1525	11.7	2024	15.6	137	1.1	12984	100.0
South Eastern Sydney	9380	81.3	1462	12.7	599	5.2	91	0.8	11532	100.0
Illawarra Shoalhaven	3515	79.4	228	5.1	644	14.5	41	0.9	4428	100.0
Western Sydney	11195	76.5	1757	12.0	1547	10.6	140	1.0	14639	100.0
Nepean Blue Mountains	3598	75.1	405	8.5	728	15.2	57	1.2	4788	100.0
Northern Sydney	8914	85.5	1075	10.3	360	3.5	72	0.7	10421	100.0
Central Coast	3261	82.4	229	5.8	422	10.7	46	1.2	3958	100.0
Hunter New England	8822	80.0	553	5.0	1482	13.4	170	1.5	11027	100.0
Northern NSW	2463	88.3	90	3.2	197	7.1	40	1.4	2790	100.0
Mid North Coast	1857	82.5	95	4.2	251	11.2	48	2.1	2251	100.0
Southern NSW	1161	85.1	49	3.6	140	10.3	15	1.1	1365	100.0
Murrumbidgee	1803	77.8	82	3.5	404	17.4	27	1.2	2316	100.0
Western NSW	2888	77.3	163	4.4	607	16.2	78	2.1	3736	100.0
Far West	166	73.8	12	5.3	44	19.6	3	1.3	225	100.0
Other-not stated	1362	89.5	65	4.3	74	4.9	20	1.3	1521	100.0
TOTAL	76912	79.8	8457	8.8	9935	10.3	1084	1.1	96388	100.0

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

Perinatal outcomes

The perinatal mortality rate in 2013 was 8.0 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 33). The perinatal mortality rate varied from 6.5 per 1,000 births in the Northern Sydney Local Health District to 11.4 per 1,000 births in the Mid North Coast Local Health District.

TABLE 33: PERINATAL OUTCOMES BY LOCAL HEALTH DISTRICT OF RESIDENCE, 2013[#]

Local Health District	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.	No.
Sydney	8386	99.2	46	0.5	21	0.2	0	0.0	0	0.0	8453	100.0		7.9
South Western Sydney	12957	99.2	73	0.6	26	0.2	1	0.0	0	0.0	13057	100.0		7.6
South Eastern Sydney	11507	99.3	55	0.5	24	0.2	1	0.0	1	0.0	11588	100.0		6.8
Illawarra Shoalhaven	4423	99.3	26	0.6	5	0.1	0	0.0	0	0.0	4454	100.0		7.0
Western Sydney	14597	99.1	85	0.6	42	0.3	0	0.0	0	0.0	14724	100.0		8.6
Nepean Blue Mountains	4771	98.9	34	0.7	17	0.4	0	0.0	1	0.0	4823	100.0		10.6
Northern Sydney	10410	99.3	57	0.5	11	0.1	0	0.0	4	0.0	10482	100.0		6.5
Central Coast	3953	99.3	23	0.6	5	0.1	0	0.0	0	0.0	3981	100.0		7.0
Hunter New England	11004	99.2	63	0.6	23	0.2	0	0.0	6	0.1	11096	100.0		7.8
Northern NSW	2781	98.9	17	0.6	9	0.3	0	0.0	5	0.2	2812	100.0		9.2
Mid North Coast	2241	98.7	16	0.7	10	0.4	0	0.0	4	0.2	2271	100.0		11.4
Southern NSW	1363	99.2	9	0.7	2	0.1	0	0.0	0	0.0	1374	100.0		8.0
Murrumbidgee	2312	99.1	17	0.7	4	0.2	0	0.0	0	0.0	2333	100.0		9.0
Western NSW	3725	99.1	24	0.6	11	0.3	0	0.0	0	0.0	3760	100.0		9.3
Far West	225	99.1	2	0.9	0	0.0	0	0.0	0	0.0	227	100.0		8.8
Other-not stated	1519	98.9	15	1.0	2	0.1	0	0.0	0	0.0	1536	100.0		11.1
TOTAL	96174	99.2	562	0.6	212	0.2	2	0.0	21	0.0	96971	100.0		8.0

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.

Live births by statistical local areas

TABLE 34: LIVE BIRTHS BY LOCAL HEALTH DISTRICT AND STATISTICAL LOCAL AREA OF RESIDENCE, NSW 2013*

Local Health District–Statistical Local Area	No.	%	Local Health District–Statistical Local Area	No.	%
Sydney			The Hills Shire–South	418	2.9
Ashfield	569	6.8	TOTAL	14639	100.0
Burwood	387	4.6	Nepean Blue Mountains		
Canada Bay–Concord	725	8.6	Blue Mountains	837	17.5
Canada Bay–Drummoyne	547	6.5	Hawkesbury	827	17.3
Canterbury	2263	26.9	Lithgow	228	4.8
Leichhardt	1007	12.0	Penrith–East	1600	33.4
Marrickville	1098	13.1	Penrith–West	1296	27.1
Strathfield	483	5.7	TOTAL	4788	100.0
Sydney–South	870	10.3	Northern Sydney		
Sydney–West	458	5.4	Hornsby–North	618	5.9
TOTAL	8407	100.0	Hornsby–South	1136	10.9
South Western Sydney			Hunters Hill	136	1.3
Bankstown–North–East	1195	9.2	Ku-ring-gai	952	9.1
Bankstown–North–West	1088	8.4	Lane Cove	423	4.1
Bankstown–South	748	5.8	Manly	649	6.2
Camden	955	7.4	Mosman	349	3.3
Campbelltown–North	1239	9.5	North Sydney	1003	9.6
Campbelltown–South	1124	8.7	Pittwater	637	6.1
Fairfield–East	1715	13.2	Ryde	1509	14.5
Fairfield–West	792	6.1	Warringah	2052	19.7
Liverpool–East	1924	14.8	Willoughby	957	9.2
Liverpool–West	1195	9.2	TOTAL	10421	100.0
Wingecarribee	429	3.3	Central Coast		
Wollondilly	580	4.5	Gosford–East	677	17.1
TOTAL	12984	100.0	Gosford–West	1284	32.4
South Eastern Sydney			Wyong–North–East	1014	25.6
Botany Bay	708	6.1	Wyong–South and West	983	24.8
Hurstville	1161	10.1	TOTAL	3958	100.0
Kogarah	818	7.1	Hunter New England		
Randwick	2005	17.4	Armidale Dumaresq–City	272	2.5
Rockdale	1527	13.2	Armidale Dumaresq–Balance	27	0.2
Sutherland Shire–East	1372	11.9	Cessnock	734	6.7
Sutherland Shire–West	1431	12.4	Dungog	90	0.8
Sydney–Inner	257	2.2	Glen Innes Severn	100	0.9
Sydney–East	425	3.7	Gloucester	34	0.3
Waverley	1096	9.5	Great Lakes	286	2.6
Woollahra	730	6.3	Greater Taree	480	4.4
Lord Howe Island	2	0.0	Gunnedah	198	1.8
TOTAL	11532	100.0	Guyra	58	0.5
Illawarra Shoalhaven			Gwydir	55	0.5
Kiama	175	4.0	Inverell–Pt A	50	0.5
Shellharbour	831	18.8	Inverell–Pt B	184	1.7
Shoalhaven–Pt A	472	10.7	Lake Macquarie–East	702	6.4
Shoalhaven–Pt B	532	12.0	Lake Macquarie–North	1061	9.6
Wollongong–Inner	1247	28.2	Lake Macquarie–West	603	5.5
Wollongong–Balance	1171	26.4	Liverpool Plains	90	0.8
TOTAL	4428	100.0	Maitland	1066	9.7
Western Sydney			Moree Plains	203	1.8
Auburn	1719	11.7	Muswellbrook	249	2.3
Blacktown–North	1927	13.2	Narrabri	199	1.8
Blacktown–South–East	1737	11.9	Newcastle–Inner City	661	6.0
Blacktown–South–West	1918	13.1	Newcastle–Outer West	656	5.9
Holroyd	2056	14.0	Newcastle–Throsby	726	6.6
Parramatta–Inner	1178	8.0	Port Stephens	766	6.9
Parramatta–North–East	701	4.8	Singleton	344	3.1
Parramatta–North–West	640	4.4	Tamworth Regional–Pt A	713	6.5
Parramatta–South	772	5.3	Tamworth Regional–Pt B	110	1.0
The Hills Shire–Central	905	6.2	Tenterfield	16	0.2
The Hills Shire–North	668	4.6	Upper Hunter Shire	190	1.7

(Continued on next page)

TABLE 34: (Continued)

Local Health District–Statistical Local Area	No.	%
Uralla	69	0.6
Walcha	35	0.3
TOTAL	11027	100.0
Northern NSW		
Tenterfield	1	0.6
Ballina	359	12.9
Byron	281	10.1
Clarence Valley–Coast	160	5.7
Clarence Valley–Grafton	302	10.8
Clarence Valley–Balance	49	1.8
Kyogle	93	3.3
Lismore–Pt A	383	13.7
Lismore–Pt B	117	4.2
Richmond Valley–Casino	167	6.0
Richmond Valley Bal	111	4.0
Tweed–Tweed-Heads	449	16.1
Tweed–Tweed Coast	127	4.6
Tweed–Pt B	191	6.8
TOTAL	2790	100.0
Mid North Coast		
Bellingen	121	5.4
Coffs Harbour–Pt A	609	27.1
Coffs Harbour–Pt B	233	10.4
Kempsey	352	15.6
Nambucca	192	8.5
Port Macquarie–Hastings–Pt A	481	21.4
Port Macquarie–Hastings–Pt B	263	11.7
TOTAL	2251	100.0
Southern NSW		
Bega Valley	239	17.5
Bombala	26	1.9
Cooma–Monaro	73	5.3
Eurobodalla	279	20.4
Goulburn Mulwaree–Goulburn	243	17.8
Goulburn Mulwaree–Balance	46	3.4
Palerang–Pt A	48	3.5
Palerang–Pt B	16	1.2
Queanbeyan	277	20.3
Snowy River	56	4.1
Upper Lachlan	46	3.4
Yass Valley	16	1.2
TOTAL	1365	100.0
Murrumbidgee		
Berrigan	15	0.6
Bland	68	2.9
Boorowa	19	0.8
Carrathool	32	1.4
Conargo	10	0.4
Coolamon	44	1.9
Cootamundra	70	3.0
Deniliquin	66	2.8
Greater Hume Shire–Pt B	8	0.3
Griffith	348	15.0
Gundagai	33	1.4
Harden	30	1.3
Hay	16	0.7
Jerilderie	11	0.5
Junee	49	2.1
Lachlan	36	4.6
Leeton	162	7.0

Local Health District–Statistical Local Area	No.	%
Lockhart	31	1.3
Murray	9	0.4
Murrumbidgee	28	1.2
Narrandera	75	3.2
Temora	74	3.2
Tumbarumba	23	1.0
Tumut	89	3.8
Urana	5	0.2
Wagga Wagga–Pt A	772	33.3
Wagga Wagga–Pt B	54	2.3
Wakool	4	0.2
Young	135	5.8
TOTAL	2316	100.0
Western NSW		
Lachlan	71	2.9
Bathurst Regional–Pt A	440	11.8
Bathurst Regional–Pt B	48	1.3
Blayney	100	2.7
Bogan	41	1.1
Bourke	66	1.8
Brewarrina	27	0.7
Cabonne	168	4.5
Cobar	66	1.8
Coonamble	75	2.0
Cowra	140	3.7
Dubbo–Pt A	601	16.1
Dubbo–Pt B	36	1.0
Forbes	117	3.1
Gilgandra	55	1.5
Mid-Western Regional–Pt A	272	7.3
Mid-Western Regional–Pt B	43	1.2
Narromine	98	2.6
Oberon	56	1.5
Orange	641	17.2
Parkes	229	6.1
Walgett	72	1.9
Warren	38	1.0
Warrumbungle Shire	84	2.2
Weddin	35	0.9
Wellington	117	3.1
TOTAL	3736	100.0
Far West		
Broken Hill	203	90.2
Central Darling	20	8.9
Wentworth	1	0.4
Unincorporated Far West	1	0.4
TOTAL	225	100.0
Other–not stated	1521	100.0
TOTAL NSW	96388	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
 # Statistical Local Area assigned according to the Australian Bureau of Statistics Australian Standard Geographical Classification, 2011 (Cat No. 1259.0.30.001)

6. NSW HOSPITALS

Onset and augmentation of labour

Table 35 shows onset or augmentation of labour for local health districts, and Table 36 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2013.

TABLE 35: ONSET AND AUGMENTATION OF LABOUR BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2013

Local Health District	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.	%
Sydney	2693	39.1	169	2.5	950	13.8	1152	16.7	689	10.0	132	1.9	1094	15.9	7	0.1	0	0.0	6886	100.0
South Western Sydney	4475	42.6	896	8.5	868	8.3	1599	15.2	1205	11.5	118	1.1	1319	12.6	23	0.2	0	0.0	10503	100.0
South Eastern Sydney	3069	39.6	494	6.4	675	8.7	1065	13.7	982	12.7	172	2.2	1285	16.6	15	0.2	0	0.0	7757	100.0
Illawarra Shoalhaven	1319	40.3	242	7.4	229	7.0	466	14.2	323	9.9	87	2.7	598	18.3	10	0.3	0	0.0	3274	100.0
Western Sydney	3645	37.9	741	7.7	911	9.5	1425	14.8	1058	11.0	110	1.1	1706	17.7	16	0.2	0	0.0	9612	100.0
Nepean Blue Mountains	1967	39.7	300	6.1	227	4.6	915	18.5	567	11.5	86	1.7	878	17.7	9	0.2	0	0.0	4949	100.0
Northern Sydney	2099	40.2	347	6.7	447	8.6	781	15.0	657	12.6	103	2.0	779	14.9	2	0.0	0	0.0	5215	100.0
Central Coast	1089	38.0	181	6.3	299	10.4	431	15.0	382	13.3	28	1.0	453	15.8	2	0.1	0	0.0	2865	100.0
Hunter New England	3927	42.5	418	4.5	589	6.4	1331	14.4	1122	12.2	159	1.7	1666	18.0	20	0.2	0	0.0	9232	100.0
Northern NSW	1710	48.4	181	5.1	287	8.1	461	13.1	363	10.3	66	1.9	459	13.0	4	0.1	0	0.0	3531	100.0
Mid North Coast	1022	46.5	106	4.8	151	6.9	366	16.7	213	9.7	43	2.0	295	13.4	1	0.0	0	0.0	2197	100.0
Southern NSW	696	50.0	86	6.2	98	7.0	195	14.0	167	12.0	48	3.4	101	7.3	1	0.1	0	0.0	1392	100.0
Murrumbidgee	927	50.1	84	4.5	84	4.5	275	14.8	191	10.3	52	2.8	238	12.9	1	0.1	0	0.0	1852	100.0
Western NSW	1462	42.5	178	5.2	182	5.3	580	16.9	389	11.3	106	3.1	543	15.8	1	0.0	0	0.0	3441	100.0
Far West	108	48.4	16	7.2	9	4.0	37	16.6	26	11.7	7	3.1	20	9.0	0	0.0	0	0.0	223	100.0
Private Hospitals	5660	25.2	1523	6.8	1882	8.4	6739	29.9	1694	7.5	567	2.5	4388	19.5	47	0.2	3	0.0	22503	100.0
TOTAL*	35970	37.7	5965	6.2	7888	8.3	17818	18.7	10028	10.5	1884	2.0	15822	16.6	159	0.2	3	0.0	95537	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 36: ONSET AND AUGMENTATION OF LABOUR BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2013*

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.	%
Level 6																				
Royal Prince Alfred	1977	38.8	0	0.0	778	15.3	917	18.0	484	9.5	101	2.0	837	16.4	6	0.1	0	0.0	5100	100.0
Royal North Shore	884	35.8	155	6.3	228	9.2	446	18.1	324	13.1	32	1.3	400	16.2	0	0.0	0	0.0	2469	100.0
Royal Hospital for Women	1572	39.7	251	6.3	276	7.0	578	14.6	520	13.1	103	2.6	652	16.5	10	0.3	0	0.0	3962	100.0
Liverpool	1355	43.3	238	7.6	276	8.8	516	16.5	329	10.5	32	1.0	372	11.9	11	0.4	0	0.0	3129	100.0
Nepean	1454	39.4	232	6.3	179	4.9	664	18.0	404	11.0	57	1.5	687	18.6	9	0.2	0	0.0	3686	100.0
Westmead	1874	35.6	426	8.1	521	9.9	845	16.1	595	11.3	70	1.3	921	17.5	5	0.1	0	0.0	5257	100.0
John Hunter	1620	40.2	181	4.5	284	7.1	586	14.5	498	12.4	56	1.4	789	19.6	14	0.3	0	0.0	4028	100.0
TOTAL	10736	38.9	1483	5.4	2542	9.2	4552	16.5	3154	11.4	451	1.6	4658	16.9	55	0.2	0	0.0	27631	100.0
Level 5																				
Gosford	939	34.8	163	6.0	299	11.1	431	16.0	382	14.2	28	1.0	453	16.8	2	0.1	0	0.0	2697	100.0
St. George	912	37.1	170	6.9	243	9.9	320	13.0	321	13.0	42	1.7	449	18.2	4	0.2	0	0.0	2461	100.0
Blacktown	1172	38.6	241	7.9	232	7.6	445	14.6	312	10.3	32	1.1	596	19.6	10	0.3	0	0.0	3040	100.0
Coffs Harbour	456	42.4	60	5.6	75	7.0	213	19.8	91	8.5	30	2.8	149	13.9	1	0.1	0	0.0	1075	100.0
Lismore Base	560	45.2	56	4.5	105	8.5	185	14.9	115	9.3	33	2.7	183	14.8	3	0.2	0	0.0	1240	100.0
Tweed Heads	712	47.1	73	4.8	158	10.4	147	9.7	164	10.8	23	1.5	234	15.5	1	0.1	0	0.0	1512	100.0
Port Macquarie Base	355	43.8	36	4.4	63	7.8	128	15.8	85	10.5	9	1.1	134	16.5	0	0.0	0	0.0	810	100.0
Dubbo Base	468	39.2	84	7.0	61	5.1	178	14.9	154	12.9	37	3.1	211	17.7	0	0.0	0	0.0	1193	100.0

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TABLE 36: (Continued)

Maternity service level-hospital	Onset and augmentation of labour																					
	Spontaneous		Spontaneous augmented with ARM		Spontaneous augmented with oxytocics/prostaglandinst		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.	%		
Wollongong	897	39.0	185	8.0	178	7.7	309	13.4	194	8.4	61	2.7	467	20.3	10	0.4	0	0.0	0	0.0	2301	100.0
Maitland	678	40.9	55	3.3	114	6.9	220	13.3	237	14.3	23	1.4	331	20.0	0	0.0	0	0.0	0	0.0	1658	100.0
Wagga Wagga Base	339	43.8	26	3.4	53	6.8	128	16.5	76	9.8	17	2.2	135	17.4	0	0.0	0	0.0	0	0.0	774	100.0
TOTAL	7488	39.9	1149	6.1	1581	8.4	2704	14.4	2131	11.4	335	1.8	3342	17.8	31	0.2	0	0.0	0	0.0	18761	100.0
Level 4																						
Canterbury	716	40.1	169	9.5	172	9.6	235	13.2	205	11.5	31	1.7	257	14.4	1	0.1	0	0.0	0	0.0	1786	100.0
Hornsby	480	43.3	94	8.5	104	9.4	153	13.8	131	11.8	25	2.3	122	11.0	0	0.0	0	0.0	0	0.0	1109	100.0
Manly	384	39.6	50	5.2	67	6.9	122	12.6	134	13.8	24	2.5	186	19.2	2	0.2	0	0.0	0	0.0	969	100.0
Mona Vale	230	42.6	41	7.6	48	8.9	60	11.1	68	12.6	22	4.1	71	13.1	0	0.0	0	0.0	0	0.0	540	100.0
Sutherland	584	43.8	73	5.5	156	11.7	167	12.5	141	10.6	27	2.0	184	13.8	1	0.1	0	0.0	0	0.0	1333	100.0
Auburn	599	45.6	74	5.6	158	12.0	135	10.3	151	11.5	8	0.6	189	14.4	1	0.1	0	0.0	0	0.0	1315	100.0
Fairfield	804	43.6	235	12.8	194	10.5	255	13.8	176	9.6	10	0.5	166	9.0	2	0.1	0	0.0	0	0.0	1842	100.0
Campbelltown	1180	40.4	199	6.8	192	6.6	437	15.0	398	13.6	53	1.8	452	15.5	7	0.2	0	0.0	0	0.0	2918	100.0
Bankstown-Lidcombe	987	45.9	162	7.5	164	7.6	320	14.9	252	11.7	17	0.8	244	11.4	2	0.1	0	0.0	0	0.0	2148	100.0
Hawkesbury	309	38.3	40	5.0	28	3.5	185	23.0	86	10.7	21	2.6	137	17.0	0	0.0	0	0.0	0	0.0	806	100.0
Grafton Base	201	44.3	29	6.4	24	5.3	67	14.8	82	18.1	9	2.0	42	9.3	0	0.0	0	0.0	0	0.0	454	100.0
Tamworth Base	369	37.6	55	5.6	54	5.5	153	15.6	114	11.6	15	1.5	219	22.3	2	0.2	0	0.0	0	0.0	981	100.0
Manning Base	247	37.1	23	3.5	46	6.9	99	14.9	97	14.6	25	3.8	127	19.1	2	0.3	0	0.0	0	0.0	666	100.0
Orange Base	369	36.4	36	3.6	57	5.6	216	21.3	97	9.6	39	3.8	199	19.6	1	0.1	0	0.0	0	0.0	1014	100.0
Goulburn Base	120	40.4	9	3.0	45	15.2	47	15.8	52	17.5	2	0.7	22	7.4	0	0.0	0	0.0	0	0.0	297	100.0
Griffith Base	255	52.9	22	4.6	21	4.4	65	13.5	47	9.8	18	3.7	53	11.0	1	0.2	0	0.0	0	0.0	482	100.0
TOTAL	7834	42.0	1311	7.0	1530	8.2	2716	14.6	2231	12.0	346	1.9	2670	14.3	22	0.1	0	0.0	0	0.0	18660	100.0
Level 3																						
Blue Mountains	131	58.0	8	3.5	10	4.4	33	14.6	21	9.3	1	0.4	22	9.7	0	0.0	0	0.0	0	0.0	226	100.0
Kempsey	156	61.9	7	2.8	12	4.8	25	9.9	37	14.7	3	1.2	12	4.8	0	0.0	0	0.0	0	0.0	252	100.0
Armidale	203	45.7	24	5.4	27	6.1	77	17.3	53	11.9	12	2.7	48	10.8	0	0.0	0	0.0	0	0.0	444	100.0
Inverell	58	20.2	10	3.5	36	12.5	76	26.5	40	13.9	6	2.1	61	21.3	0	0.0	0	0.0	0	0.0	287	100.0
Mudgee	113	46.1	13	5.3	15	6.1	36	14.7	28	11.4	7	2.9	33	13.5	0	0.0	0	0.0	0	0.0	245	100.0
Bathurst Base	264	51.5	19	3.7	24	4.7	84	16.4	58	11.3	10	1.9	54	10.5	0	0.0	0	0.0	0	0.0	513	100.0
Lithgow	73	31.6	20	8.7	10	4.3	33	14.3	56	24.2	7	3.0	32	13.9	0	0.0	0	0.0	0	0.0	231	100.0
Bega	126	58.6	12	5.6	9	4.2	26	12.1	17	7.9	12	5.6	13	6.0	0	0.0	0	0.0	0	0.0	215	100.0
Moruya	152	51.4	8	2.7	10	3.4	43	14.5	38	12.8	17	5.7	27	9.1	1	0.3	0	0.0	0	0.0	296	100.0
Queanbeyan	221	51.4	48	11.2	29	6.7	57	13.3	47	10.9	10	2.3	18	4.2	0	0.0	0	0.0	0	0.0	430	100.0
Bowral	149	32.0	62	13.3	42	9.0	71	15.2	50	10.7	6	1.3	85	18.2	1	0.2	0	0.0	0	0.0	466	100.0
Shoalhaven	365	41.6	53	6.0	36	4.1	153	17.4	121	13.8	26	3.0	123	14.0	0	0.0	0	0.0	0	0.0	877	100.0
Broken Hill Base	108	48.4	16	7.2	9	4.0	37	16.6	26	11.7	7	3.1	20	9.0	0	0.0	0	0.0	0	0.0	223	100.0
Other hospitals	1158	53.7	147	6.8	66	3.1	326	15.1	207	9.6	51	2.4	199	9.2	2	0.1	0	0.0	0	0.0	2156	100.0
TOTAL	3277	47.8	447	6.5	335	4.9	1077	15.7	799	11.6	175	2.6	747	10.9	4	0.1	0	0.0	0	0.0	6861	100.0
Level 2																						
TOTAL	854	85.7	49	4.9	18	1.8	30	3.0	18	1.8	10	1.0	17	1.7	0	0.0	0	0.0	0	0.0	996	100.0
Private																						
Mater, North Sydney	696	28.4	182	7.4	191	7.8	809	33.0	180	7.3	102	4.2	289	11.8	1	0.0	0	0.0	0	0.0	2450	100.0
North Shore Private	548	23.8	194	8.4	260	11.3	744	32.3	123	5.3	81	3.5	348	15.1	6	0.3	0	0.0	0	0.0	2304	100.0
Sydney Adventist	883	46.3	0	0.0	0	0.0	478	25.0	104	5.4	43	2.3	399	20.9	2	0.1	0	0.0	0	0.0	1909	100.0
North Gosford Private	158	20.2	40	5.1	76	9.7	231	29.5	82	10.5	16	2.0	176	22.5	4	0.5	0	0.0	0	0.0	783	100.0
Hurstville Community	171	22.9	56	7.5	79	10.6	220	29.4	84	11.2	10	1.3	128	17.1	0	0.0	0	0.0	0	0.0	748	100.0
Kareena Private	152	19.6	38	4.9	72	9.3	266	34.4	35	4.5	19	2.5	190	24.5	2	0.3	0	0.0	0	0.0	774	100.0
St. George Private	339	19.7	140	8.1	214	12.4	541	31.4	152	8.8	55	3.2	279	16.2	2	0.1	0	0.0	0	0.0	1722	100.0
Prince of Wales Private	685	26.6	244	9.5	140	5.4	947	36.8	181	7.0	88	3.4	290	11.3	1	0.0	0	0.0	0	0.0	2576	100.0
Norwest Private	407	20.0	126	6.2	197	9.7	447	22.0	152	7.5	20	1.0	680	33.5	3	0.1	0	0.0	0	0.0	2032	100.0
Sydney Southwest Private	224	26.8	32	3.8	55	6.6	239	28.6	94	11.2	18	2.2	173	20.7	1	0.1	0	0.0	0	0.0	836	100.0
Nepean Private	181	22.2	63	7.7	46	5.6	216	26.5	82	10.1	21	2.6	198	24.3	8	1.0	0	0.0	0	0.0	815	100.0
Westmead Private	411	18.4	223	10.0	312	14.0	654	29.3	159	7.1	9	0.4	461	20.7	2	0.1	0	0.0	0	0.0	2231	100.0
Figtree Private	134	14.3	82	8.7	90	9.6	263	28.0	40	4.3	21	2.2	307	32.7	1	0.1	0	0.0	0	0.0	938	100.0
Newcastle Private	554	29.4	94	5.0	135	7.2	483	25.7	127	6.7	41	2.2	433	23.0	13	0.7	3	0.2	0	0.0	1883	100.0
Calvary, Wagga Wagga	115	24.9	8	1.7	15	3.2	167	36.1	99	21.4	23	5.0	34	7.4	1	0.2	0	0.0	0	0.0	462	100.0
Other hospitals	2	5.0	1	2.5	0	0.0	34	85.0	0	0.0	0	0.0	3	7.5	0	0.0	0	0.0	0	0.0	40	100.0
TOTAL	5660	25.2	1523	6.8	1882	8.4	6739	29.9	1694	7.5	567	2.5	4388	19.5	47	0.2	3	0.0	0	0.0	22503	100.0
TOTAL NSW*	35970	37.7	5965	6.2																		

Type of birth

Table 37 shows type of birth for local health districts, and Table 38 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2013.

TABLE 37: TYPE OF BIRTH BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2013

Local Health District	Type of birth												TOTAL			
	Normal vaginal		Forceps		Vacuum extraction		Vaginal breech		Elective caesarean section		Emergency caesarean section†				Not stated	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
Sydney	3910	56.8	460	6.7	453	6.6	20	0.3	1152	16.7	891	12.9	0	0.0	6886	100.0
South Western Sydney	7150	68.1	210	2.0	556	5.3	41	0.4	1599	15.2	947	9.0	0	0.0	10503	100.0
South Eastern Sydney	4478	57.7	576	7.4	611	7.9	34	0.4	1065	13.7	993	12.8	0	0.0	7757	100.0
Illawarra Shoalhaven	2037	62.2	78	2.4	237	7.2	8	0.2	466	14.2	448	13.7	0	0.0	3274	100.0
Western Sydney	5769	60.0	561	5.8	521	5.4	80	0.8	1425	14.8	1256	13.1	0	0.0	9612	100.0
Nepean Blue Mountains	2840	57.4	78	1.6	344	7.0	12	0.2	915	18.5	760	15.4	0	0.0	4949	100.0
Northern Sydney	2898	55.6	418	8.0	283	5.4	17	0.3	781	15.0	818	15.7	0	0.0	5215	100.0
Central Coast	1656	57.8	199	6.9	184	6.4	12	0.4	431	15.0	383	13.4	0	0.0	2865	100.0
Hunter New England	5823	63.1	407	4.4	439	4.8	50	0.5	1331	14.4	1182	12.8	0	0.0	9232	100.0
Northern NSW	2350	66.6	138	3.9	169	4.8	12	0.3	461	13.1	401	11.4	0	0.0	3531	100.0
Mid North Coast	1401	63.8	65	3.0	112	5.1	4	0.2	366	16.7	249	11.3	0	0.0	2197	100.0
Southern NSW	883	63.4	74	5.3	86	6.2	4	0.3	195	14.0	150	10.8	0	0.0	1392	100.0
Murrumbidgee	1188	64.1	30	1.6	117	6.3	7	0.4	275	14.8	235	12.7	0	0.0	1852	100.0
Western NSW	2163	62.9	103	3.0	180	5.2	12	0.3	580	16.9	403	11.7	0	0.0	3441	100.0
Far West	140	62.8	19	8.5	1	0.4	1	0.4	37	16.6	25	11.2	0	0.0	223	100.0
Private Hospitals	9479	42.1	933	4.1	2207	9.8	48	0.2	6739	29.9	3095	13.8	2	0.0	22503	100.0
TOTAL*	54269	56.8	4349	4.6	6500	6.8	363	0.4	17818	18.7	12236	12.8	2	0.0	95537	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 NSW includes births at home assisted by independent midwives

TABLE 38: TYPE OF BIRTH BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2013#

Maternity service level-hospital	Type of birth												TOTAL			
	Normal vaginal		Forceps		Vacuum extraction		Vaginal breech		Elective caesarean section		Emergency caesarean section†				Not stated	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
Level 6																
Royal Prince Alfred	2779	54.5	401	7.9	335	6.6	17	0.3	917	18.0	651	12.8	0	0.0	5100	100.0
Royal North Shore	1208	48.9	222	9.0	133	5.4	14	0.6	446	18.1	446	18.1	0	0.0	2469	100.0
Royal Hospital for Women	2107	53.2	406	10.2	314	7.9	26	0.7	578	14.6	531	13.4	0	0.0	3962	100.0
Liverpool	2009	64.2	110	3.5	182	5.8	24	0.8	516	16.5	288	9.2	0	0.0	3129	100.0
Nepean	2095	56.8	53	1.4	268	7.3	10	0.3	664	18.0	596	16.2	0	0.0	3686	100.0
Westmead	2991	56.9	381	7.2	285	5.4	62	1.2	845	16.1	693	13.2	0	0.0	5257	100.0
John Hunter	2399	59.6	246	6.1	144	3.6	39	1.0	586	14.5	614	15.2	0	0.0	4028	100.0
TOTAL	15588	56.4	1819	6.6	1661	6.0	192	0.7	4552	16.5	3819	13.8	0	0.0	27631	100.0
Level 5																
Gosford	1488	55.2	199	7.4	184	6.8	12	0.4	431	16.0	383	14.2	0	0.0	2697	100.0
St. George	1494	60.7	122	5.0	192	7.8	7	0.3	320	13.0	326	13.2	0	0.0	2461	100.0
Blacktown	1833	60.3	149	4.9	167	5.5	14	0.5	445	14.6	432	14.2	0	0.0	3040	100.0
Coffs Harbour	645	60.0	18	1.7	57	5.3	2	0.2	213	19.8	140	13.0	0	0.0	1075	100.0
Lismore Base	778	62.7	64	5.2	56	4.5	6	0.5	185	14.9	151	12.2	0	0.0	1240	100.0
Tweed Heads	1015	67.1	66	4.4	94	6.2	5	0.3	147	9.7	185	12.2	0	0.0	1512	100.0
Port Macquarie Base	515	63.6	45	5.6	38	4.7	2	0.2	128	15.8	82	10.1	0	0.0	810	100.0
Dubbo Base	791	66.3	43	3.6	52	4.4	3	0.3	178	14.9	126	10.6	0	0.0	1193	100.0
Wollongong	1429	62.1	42	1.8	188	8.2	6	0.3	309	13.4	327	14.2	0	0.0	2301	100.0
Maitland	1084	65.4	62	3.7	79	4.8	4	0.2	220	13.3	209	12.6	0	0.0	1658	100.0
Wagga Wagga Base	475	61.4	14	1.8	48	6.2	3	0.4	128	16.5	106	13.7	0	0.0	774	100.0
TOTAL	11547	61.5	824	4.4	1155	6.2	64	0.3	2704	14.4	2467	13.1	0	0.0	18761	100.0
Level 4																
Canterbury	1131	63.3	59	3.3	118	6.6	3	0.2	235	13.2	240	13.4	0	0.0	1786	100.0
Hornsby	703	63.4	63	5.7	45	4.1	1	0.1	153	13.8	144	13.0	0	0.0	1109	100.0
Manly	566	58.4	93	9.6	48	5.0	0	0.0	122	12.6	140	14.4	0	0.0	969	100.0
Mona Vale	294	54.4	40	7.4	57	10.6	1	0.2	60	11.1	88	16.3	0	0.0	540	100.0

(Continued on next page)

TABLE 38: (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	877	65.8	48	3.6	105	7.9	1	0.1	167	12.5	135	10.1	0	0.0	1333	100.0
Auburn	945	71.9	31	2.4	69	5.2	4	0.3	135	10.3	131	10.0	0	0.0	1315	100.0
Fairfield	1407	76.4	6	0.3	54	2.9	2	0.1	255	13.8	118	6.4	0	0.0	1842	100.0
Campbelltown	1970	67.5	23	0.8	192	6.6	9	0.3	437	15.0	287	9.8	0	0.0	2918	100.0
Bankstown-Lidcombe	1475	68.7	39	1.8	110	5.1	5	0.2	320	14.9	199	9.3	0	0.0	2148	100.0
Hawkesbury	440	54.6	21	2.6	50	6.2	1	0.1	185	23.0	109	13.5	0	0.0	806	100.0
Grafton Base	299	65.9	8	1.8	17	3.7	0	0.0	67	14.8	63	13.9	0	0.0	454	100.0
Tamworth Base	595	60.7	48	4.9	53	5.4	0	0.0	153	15.6	132	13.5	0	0.0	981	100.0
Manning Base	428	64.3	13	2.0	69	10.4	2	0.3	99	14.9	55	8.3	0	0.0	666	100.0
Orange Base	546	53.8	34	3.4	84	8.3	2	0.2	216	21.3	132	13.0	0	0.0	1014	100.0
Goulburn Base	180	60.6	38	12.8	5	1.7	1	0.3	47	15.8	26	8.8	0	0.0	297	100.0
Griffith Base	295	61.2	11	2.3	41	8.5	2	0.4	65	13.5	68	14.1	0	0.0	482	100.0
TOTAL	12151	65.1	575	3.1	1117	6.0	34	0.2	2716	14.6	2067	11.1	0	0.0	18660	100.0
Level 3																
Blue Mountains	148	65.5	0	0.0	17	7.5	1	0.4	33	14.6	27	11.9	0	0.0	226	100.0
Kempsey	186	73.8	2	0.8	12	4.8	0	0.0	25	9.9	27	10.7	0	0.0	252	100.0
Armidale	280	63.1	13	2.9	18	4.1	3	0.7	77	17.3	53	11.9	0	0.0	444	100.0
Inverell	169	58.9	16	5.6	8	2.8	0	0.0	76	26.5	18	6.3	0	0.0	287	100.0
Mudgee	166	67.8	4	1.6	12	4.9	0	0.0	36	14.7	27	11.0	0	0.0	245	100.0
Bathurst Base	329	64.1	20	3.9	13	2.5	3	0.6	84	16.4	64	12.5	0	0.0	513	100.0
Lithgow	157	68.0	4	1.7	9	3.9	0	0.0	33	14.3	28	12.1	0	0.0	231	100.0
Bega	138	64.2	9	4.2	15	7.0	1	0.5	26	12.1	26	12.1	0	0.0	215	100.0
Moruya	206	69.6	6	2.0	15	5.1	2	0.7	43	14.5	24	8.1	0	0.0	296	100.0
Queanbeyan	255	59.3	19	4.4	48	11.2	0	0.0	57	13.3	51	11.9	0	0.0	430	100.0
Bowral	289	62.0	32	6.9	18	3.9	1	0.2	71	15.2	55	11.8	0	0.0	466	100.0
Shoalhaven	540	61.6	36	4.1	38	4.3	2	0.2	153	17.4	108	12.3	0	0.0	877	100.0
Broken Hill Base	140	62.8	19	8.5	1	0.4	1	0.4	37	16.6	25	11.2	0	0.0	223	100.0
Broken Hill Base	161	62.9	10	3.9	2	0.8	1	0.4	47	18.4	33	12.9	2	0.8	256	100.0
Other hospitals	1469	68.1	17	0.8	106	4.9	7	0.3	326	15.1	231	10.7	0	0.0	2156	100.0
TOTAL	4472	65.2	197	2.9	330	4.8	21	0.3	1077	15.7	764	11.1	0	0.0	6861	100.0
Level 2																
TOTAL	911	91.5	1	0.1	30	3.0	2	0.2	30	3.0	22	2.2	0	0.0	996	100.0
Private																
Mater, North Sydney	955	39.0	92	3.8	242	9.9	4	0.2	809	33.0	347	14.2	1	0.0	2450	100.0
North Shore Private	883	38.3	88	3.8	238	10.3	2	0.1	744	32.3	349	15.1	0	0.0	2304	100.0
Sydney Adventist	1032	54.1	63	3.3	120	6.3	0	0.0	478	25.0	216	11.3	0	0.0	1909	100.0
North Gosford Private	323	41.3	29	3.7	70	8.9	7	0.9	231	29.5	123	15.7	0	0.0	783	100.0
Hurstville Community	317	42.4	16	2.1	83	11.1	0	0.0	220	29.4	112	15.0	0	0.0	748	100.0
Kareena Private	291	37.6	69	8.9	70	9.0	3	0.4	266	34.4	75	9.7	0	0.0	774	100.0
St. George Private	650	37.7	72	4.2	222	12.9	3	0.2	541	31.4	234	13.6	0	0.0	1722	100.0
Prince of Wales Private	863	33.5	105	4.1	250	9.7	5	0.2	947	36.8	405	15.7	1	0.0	2576	100.0
Norwest Private	984	48.4	134	6.6	195	9.6	11	0.5	447	22.0	261	12.8	0	0.0	2032	100.0
Sydney Southwest Private	407	48.7	35	4.2	87	10.4	2	0.2	239	28.6	66	7.9	0	0.0	836	100.0
Nepean Private	341	41.8	27	3.3	74	9.1	2	0.2	216	26.5	155	19.0	0	0.0	815	100.0
Westmead Private	967	43.3	168	7.5	135	6.1	4	0.2	654	29.3	303	13.6	0	0.0	2231	100.0
Figtree Private	400	42.6	12	1.3	134	14.3	4	0.4	263	28.0	125	13.3	0	0.0	938	100.0
Newcastle Private	890	47.3	22	1.2	246	13.1	1	0.1	483	25.7	241	12.8	0	0.0	1883	100.0
Calvary, Wagga Wagga	172	37.2	1	0.2	40	8.7	0	0.0	167	36.1	82	17.7	0	0.0	462	100.0
Other hospitals	4	10.0	0	0.0	1	2.5	0	0.0	34	85.0	1	2.5	0	0.0	40	100.0
TOTAL	9479	42.1	933	4.1	2207	9.8	48	0.2	6739	29.9	3095	13.8	2	0.0	22503	100.0
TOTAL NSW*	54269	56.8	4349	4.6	6500	6.8	363	0.4	17818	18.7	12236	12.8	2	0.0	95537	100.0

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

Hospitals with more than 200 births in 2013 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 39 shows type of pain relief provided to women during labour or delivery for local health districts, and Table 40 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2013.

In addition to the types of pain relief shown in the tables, in 2013 a further 25,903 (27.1%) women were reported to have received local anaesthetic to the perineum, and 745 (0.8%) received a pudendal block.

TABLE 39: PAIN RELIEF BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2013

Local Health District	Pain Relief											
	Epidural-spinal [†]		General anaesthetic		IM narcotics		Nitrous oxide		Nil		TOTAL [‡]	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	3398	49.3	286	4.2	597	8.7	3107	45.1	855	12.4	6886	100.0
South Western Sydney	3430	32.7	432	4.1	2474	23.6	5198	49.5	1419	13.5	10503	100.0
South Eastern Sydney	3946	50.9	200	2.6	993	12.8	3593	46.3	590	7.6	7757	100.0
Illawarra Shoalhaven	1386	42.3	116	3.5	424	13.0	1800	55.0	283	8.6	3274	100.0
Western Sydney	4433	46.1	349	3.6	1133	11.8	4676	48.6	616	6.4	9612	100.0
Nepean Blue Mountains	2176	44.0	302	6.1	924	18.7	2340	47.3	419	8.5	4949	100.0
Northern Sydney	2659	51.0	114	2.2	511	9.8	2209	42.4	359	6.9	5215	100.0
Central Coast	1364	47.6	88	3.1	568	19.8	1203	42.0	300	10.5	2865	100.0
Hunter New England	3339	36.2	516	5.6	1922	20.8	4493	48.7	969	10.5	9232	100.0
Northern NSW	1355	38.4	88	2.5	512	14.5	1668	47.2	488	13.8	3531	100.0
Mid North Coast	878	40.0	61	2.8	307	14.0	1045	47.6	245	11.2	2197	100.0
Southern NSW	464	33.3	35	2.5	194	13.9	718	51.6	234	16.8	1392	100.0
Murrumbidgee	626	33.8	46	2.5	454	24.5	881	47.6	318	17.2	1852	100.0
Western NSW	1320	38.4	169	4.9	705	20.5	1741	50.6	315	9.2	3441	100.0
Far West	75	33.6	12	5.4	49	22.0	100	44.8	35	15.7	223	100.0
Private Hospitals	16672	74.1	325	1.4	1262	5.6	6321	28.1	901	4.0	22503	100.0
TOTAL NSW*	47521	49.7	3139	3.3	13029	13.6	41093	43.0	8438	8.8	95537	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 40: PAIN RELIEF BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2013[#]

Maternity service level—hospital	Pain Relief											
	Epidural-spinal [†]		General anaesthetic		IM narcotics		Nitrous oxide		Nil		TOTAL [‡]	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Level 6												
Royal Prince Alfred	2765	54.2	203	4.0	397	7.8	2202	43.2	617	12.1	5100	100.0
Royal North Shore	1447	58.6	53	2.1	220	8.9	1057	42.8	110	4.5	2469	100.0
Royal Hospital for Women	2218	56.0	67	1.7	631	15.9	1668	42.1	275	6.9	3962	100.0
Liverpool	1247	39.9	146	4.7	974	31.1	1459	46.6	217	6.9	3129	100.0
Nepean	1674	45.4	265	7.2	690	18.7	1790	48.6	263	7.1	3686	100.0
Westmead	2804	53.3	194	3.7	647	12.3	2339	44.5	213	4.1	5257	100.0
John Hunter	1635	40.6	312	7.7	961	23.9	1974	49.0	308	7.6	4028	100.0
TOTAL	13790	49.9	1240	4.5	4520	16.4	12489	45.2	2003	7.2	27631	100.0
Level 5												
Gosford	1363	50.5	87	3.2	562	20.8	1156	42.9	257	9.5	2697	100.0
St. George	1132	46.0	86	3.5	253	10.3	1218	49.5	179	7.3	2461	100.0
Blacktown	1243	40.9	132	4.3	312	10.3	1545	50.8	260	8.6	3040	100.0
Coffs Harbour	470	43.7	34	3.2	114	10.6	441	41.0	115	10.7	1075	100.0
Lismore Base	541	43.6	28	2.3	135	10.9	544	43.9	169	13.6	1240	100.0
Tweed Heads	579	38.3	43	2.8	267	17.7	830	54.9	153	10.1	1512	100.0
Port Macquarie Base	342	42.2	24	3.0	128	15.8	441	54.4	76	9.4	810	100.0
Dubbo Base	436	36.5	73	6.1	322	27.0	621	52.1	92	7.7	1193	100.0
Wollongong	1026	44.6	88	3.8	182	7.9	1279	55.6	176	7.6	2301	100.0
Maitland	585	35.3	80	4.8	239	14.4	856	51.6	197	11.9	1658	100.0
Wagga Wagga Base	319	41.2	21	2.7	147	19.0	343	44.3	129	16.7	774	100.0
TOTAL	8036	42.8	696	3.7	2661	14.2	9274	49.4	1803	9.6	18761	100.0
Level 4												
Canterbury	633	35.4	83	4.6	200	11.2	905	50.7	238	13.3	1786	100.0
Hornsby	484	43.6	27	2.4	122	11.0	541	48.8	84	7.6	1109	100.0
Manly	461	47.6	19	2.0	92	9.5	347	35.8	96	9.9	969	100.0
Mona Vale	267	49.4	15	2.8	77	14.3	243	45.0	45	8.3	540	100.0
Sutherland	595	44.6	47	3.5	109	8.2	707	53.0	136	10.2	1333	100.0

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TABLE 40: (Continued)

Maternity service level–hospital	Pain Relief											
	Epidural-spinal†		General anaesthetic		IM narcotics		Nitrous oxide		Nil		TOTAL‡	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Auburn	386	29.4	23	1.7	174	13.2	792	60.2	143	10.9	1315	100.0
Fairfield	349	18.9	82	4.5	352	19.1	858	46.6	351	19.1	1842	100.0
Campbelltown	964	33.0	94	3.2	616	21.1	1506	51.6	536	18.4	2918	100.0
Bankstown-Lidcombe	678	31.6	89	4.1	382	17.8	1176	54.7	250	11.6	2148	100.0
Hawkesbury	342	42.4	27	3.3	168	20.8	344	42.7	102	12.7	806	100.0
Grafton Base	171	37.7	16	3.5	100	22.0	236	52.0	59	13.0	454	100.0
Tamworth Base	469	47.8	34	3.5	138	14.1	489	49.8	85	8.7	981	100.0
Manning Base	202	30.3	26	3.9	221	33.2	354	53.2	78	11.7	666	100.0
Orange Base	492	48.5	48	4.7	194	19.1	512	50.5	64	6.3	1014	100.0
Goulburn Base	105	35.4	3	1.0	56	18.9	195	65.7	22	7.4	297	100.0
Griffith Base	166	34.4	12	2.5	166	34.4	235	48.8	79	16.4	482	100.0
TOTAL	6764	36.2	645	3.5	3167	17.0	9440	50.6	2368	12.7	18660	100.0
Level 3												
Blue Mountains	78	34.5	7	3.1	14	6.2	94	41.6	27	11.9	226	100.0
Kempsey	66	26.2	3	1.2	58	23.0	129	51.2	40	15.9	252	100.0
Armidale	142	32.0	9	2.0	140	31.5	214	48.2	47	10.6	444	100.0
Inverell	93	32.4	2	0.7	54	18.8	113	39.4	45	15.7	287	100.0
Mudgee	74	30.2	5	2.0	28	11.4	115	46.9	37	15.1	245	100.0
Bathurst Base	183	35.7	23	4.5	44	8.6	242	47.2	53	10.3	513	100.0
Lithgow	82	35.5	3	1.3	52	22.5	112	48.5	27	11.7	231	100.0
Bega	67	31.2	8	3.7	58	27.0	121	56.3	29	13.5	215	100.0
Moruya	86	29.1	8	2.7	36	12.2	115	38.9	58	19.6	296	100.0
Queanbeyan	155	36.0	13	3.0	35	8.1	217	50.5	97	22.6	430	100.0
Bowral	192	41.2	21	4.5	150	32.2	199	42.7	65	13.9	466	100.0
Shoalhaven	339	38.7	26	3.0	210	23.9	452	51.5	95	10.8	877	100.0
Broken Hill Base	75	33.6	12	5.4	49	22.0	100	44.8	35	15.7	223	100.0
Other hospitals	566	26.3	84	3.9	416	19.3	1049	48.7	341	15.8	2156	100.0
TOTAL	2198	32.0	224	3.3	1344	19.6	3272	47.7	996	14.5	6861	100.0
Level 2												
TOTAL	59	5.9	9	0.9	73	7.3	295	29.6	262	26.3	996	100.0
Private												
Mater, North Sydney	1792	73.1	30	1.2	166	6.8	689	28.1	109	4.4	2450	100.0
North Shore Private	1767	76.7	19	0.8	63	2.7	634	27.5	54	2.3	2304	100.0
Sydney Adventist	1295	67.8	46	2.4	159	8.3	593	31.1	73	3.8	1909	100.0
North Gosford Private	530	67.7	15	1.9	49	6.3	198	25.3	69	8.8	783	100.0
Hurstville Community	553	73.9	14	1.9	40	5.3	207	27.7	32	4.3	748	100.0
Kareena Private	660	85.3	6	0.8	15	1.9	129	16.7	27	3.5	774	100.0
St. George Private	1414	82.1	26	1.5	65	3.8	383	22.2	71	4.1	1722	100.0
Prince of Wales Private	2193	85.1	11	0.4	23	0.9	588	22.8	94	3.6	2576	100.0
Norwest Private	1454	71.6	50	2.5	118	5.8	584	28.7	79	3.9	2032	100.0
Sydney Southwest Private	505	60.4	13	1.6	146	17.5	345	41.3	28	3.3	836	100.0
Nepean Private	514	63.1	20	2.5	113	13.9	337	41.3	17	2.1	815	100.0
Westmead Private	1629	73.0	33	1.5	103	4.6	620	27.8	47	2.1	2231	100.0
Figtree Private	747	79.6	13	1.4	1	0.1	226	24.1	33	3.5	938	100.0
Newcastle Private	1294	68.7	15	0.8	163	8.7	667	35.4	93	4.9	1883	100.0
Calvary, Wagga Wagga	291	63.0	11	2.4	37	8.0	117	25.3	75	16.2	462	100.0
Other hospitals	34	85.0	3	7.5	1	2.5	4	10.0	.	.	40	100.0
TOTAL	16672	74.1	325	1.4	1262	5.6	6321	28.1	901	4.0	22503	100.0
TOTAL NSW*	47521	49.7	3139	3.3	13029	13.6	41093	43.0	8438	8.8	95537	100.0

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

Hospitals with more than 200 births in 2013 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 41 shows the perineal status in vaginal births for local health districts, and Table 42 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2013.

In 2013, there were 1,857 cases of third degree tear and 103 cases of fourth degree tear reported among women who gave birth vaginally in 2013, including tears associated with an episiotomy.

TABLE 41: PERINEAL STATUS AMONG VAGINAL BIRTHS BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2013

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	784	16.2	1000	20.6	1790	37.0	167	3.4	743	15.3	224	4.6	135	2.8	0	0.0	4843	100.0
South Western Sydney	1989	25.0	1924	24.2	2167	27.2	163	2.0	1252	15.7	164	2.1	298	3.7	0	0.0	7957	100.0
South Eastern Sydney	923	16.2	1654	29.0	1631	28.6	174	3.1	962	16.9	322	5.7	33	0.6	0	0.0	5699	100.0
Illawarra Shoalhaven	656	27.8	892	37.8	484	20.5	37	1.6	209	8.9	62	2.6	20	0.8	0	0.0	2360	100.0
Western Sydney	1148	16.6	2174	31.4	1689	24.4	125	1.8	1314	19.0	411	5.9	70	1.0	0	0.0	6931	100.0
Nepean Blue Mountains	724	22.1	1254	38.3	757	23.1	57	1.7	362	11.1	89	2.7	31	0.9	0	0.0	3274	100.0
Northern Sydney	518	14.3	1081	29.9	1165	32.2	112	3.1	500	13.8	233	6.4	7	0.2	0	0.0	3616	100.0
Central Coast	425	20.7	809	39.4	431	21.0	72	3.5	180	8.8	117	5.7	17	0.8	0	0.0	2051	100.0
Hunter New England	1518	22.6	2733	40.7	1377	20.5	143	2.1	654	9.7	228	3.4	66	1.0	0	0.0	6719	100.0
Northern NSW	689	25.8	1092	40.9	549	20.6	36	1.3	212	7.9	65	2.4	26	1.0	0	0.0	2669	100.0
Mid North Coast	376	23.8	581	36.7	395	25.0	56	3.5	118	7.5	42	2.7	14	0.9	0	0.0	1582	100.0
Southern NSW	283	27.0	330	31.5	250	23.9	19	1.8	122	11.7	20	1.9	23	2.2	0	0.0	1047	100.0
Murrumbidgee	462	34.4	509	37.9	222	16.5	12	0.9	98	7.3	27	2.0	12	0.9	0	0.0	1342	100.0
Western NSW	695	28.3	894	36.4	499	20.3	33	1.3	224	9.1	90	3.7	22	0.9	1	0.0	2458	100.0
Far West	60	37.3	60	37.3	21	13.0	0	0.0	14	8.7	4	2.5	2	1.2	0	0.0	161	100.0
Private Hospitals	2352	18.6	2383	18.8	3896	30.8	114	0.9	3312	26.1	199	1.6	405	3.2	6	0.0	12667	100.0
TOTAL*	13653	20.9	19397	29.6	17344	26.5	1320	2.0	10276	15.7	2297	3.5	1182	1.8	12	0.0	65481	100.0

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

* Total NSW includes births at home assisted by independent midwives

TABLE 42: PERINEAL STATUS AMONG VAGINAL BIRTHS BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2013*

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	509	14.4	698	19.8	1386	39.2	116	3.3	552	15.6	191	5.4	80	2.3	0	0.0	3532	100.0
Royal North Shore	170	10.8	450	28.5	494	31.3	55	3.5	271	17.2	135	8.6	2	0.1	0	0.0	1577	100.0
Royal Hospital for Women	431	15.1	840	29.4	780	27.3	73	2.6	561	19.7	149	5.2	19	0.7	0	0.0	2853	100.0
Liverpool	493	21.2	563	24.2	625	26.9	47	2.0	461	19.8	55	2.4	81	3.5	0	0.0	2325	100.0
Nepean	501	20.7	951	39.2	551	22.7	45	1.9	277	11.4	75	3.1	26	1.1	0	0.0	2426	100.0
Westmead	592	15.9	1030	27.7	941	25.3	58	1.6	793	21.3	255	6.9	50	1.3	0	0.0	3719	100.0
John Hunter	490	17.3	1201	42.5	603	21.3	69	2.4	326	11.5	119	4.2	20	0.7	0	0.0	2828	100.0
TOTAL	3186	16.5	5733	29.8	5380	27.9	463	2.4	3241	16.8	979	5.1	278	1.4	0	0.0	19260	100.0
Level 5																		
Gosford	369	19.6	726	38.6	409	21.7	66	3.5	180	9.6	116	6.2	17	0.9	0	0.0	1883	100.0
St. George	297	16.4	494	27.2	575	31.7	66	3.6	262	14.4	115	6.3	6	0.3	0	0.0	1815	100.0
Blacktown	286	13.2	788	36.4	516	23.9	53	2.5	390	18.0	118	5.5	12	0.6	0	0.0	2163	100.0
Coffs Harbour	139	19.3	296	41.0	185	25.6	19	2.6	57	7.9	17	2.4	9	1.2	0	0.0	722	100.0
Lismore Base	215	23.8	358	39.6	187	20.7	7	0.8	99	11.0	22	2.4	16	1.8	0	0.0	904	100.0
Tweed Heads	260	22.0	482	40.8	271	23.0	26	2.2	95	8.1	41	3.5	5	0.4	0	0.0	1180	100.0
Port Macquarie Base	136	22.7	191	31.8	162	27.0	33	5.5	50	8.3	24	4.0	4	0.7	0	0.0	600	100.0
Dubbo Base	320	36.0	275	30.9	151	17.0	7	0.8	105	11.8	22	2.5	9	1.0	0	0.0	889	100.0
Wollongong	418	25.1	636	38.2	373	22.4	28	1.7	143	8.6	56	3.4	11	0.7	0	0.0	1665	100.0
Maitland	319	26.0	450	36.6	300	24.4	39	3.2	72	5.9	38	3.1	11	0.9	0	0.0	1229	100.0
Wagga Wagga Base	160	29.6	222	41.1	97	18.0	6	1.1	38	7.0	15	2.8	2	0.4	0	0.0	540	100.0
TOTAL	2919	21.5	4918	36.2	3226	23.7	350	2.6	1491	11.0	584	4.3	102	0.8	0	0.0	13590	100.0
Level 4																		
Canterbury	275	21.0	302	23.0	404	30.8	51	3.9	191	14.6	33	2.5	55	4.2	0	0.0	1311	100.0
Hornsby	153	18.8	252	31.0	282	34.7	18	2.2	71	8.7	34	4.2	2	0.2	0	0.0	812	100.0
Manly	102	14.4	196	27.7	226	32.0	23	3.3	109	15.4	50	7.1	1	0.1	0	0.0	707	100.0
Mona Vale	63	16.1	125	31.9	128	32.7	15	3.8	48	12.2	13	3.3	0	0.0	0	0.0	392	100.0
Sutherland	195	18.9	320	31.0	276	26.8	35	3.4	139	13.5	58	5.6	8	0.8	0	0.0	1031	100.0

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TABLE 42: (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	270	25.7	356	33.9	232	22.1	14	1.3	131	12.5	38	3.6	8	0.8	0	0.0	1049	100.0
Fairfield	492	33.5	281	19.1	396	27.0	44	3.0	192	13.1	22	1.5	42	2.9	0	0.0	1469	100.0
Campbelltown	542	24.7	602	27.4	644	29.4	37	1.7	253	11.5	29	1.3	87	4.0	0	0.0	2194	100.0
Bankstown-Lidcombe	361	22.2	388	23.8	416	25.5	29	1.8	309	19.0	55	3.4	71	4.4	0	0.0	1629	100.0
Hawkesbury	150	29.3	165	32.2	127	24.8	8	1.6	54	10.5	5	1.0	3	0.6	0	0.0	512	100.0
Grafton Base	123	38.0	119	36.7	60	18.5	1	0.3	17	5.2	2	0.6	2	0.6	0	0.0	324	100.0
Tamworth Base	173	24.9	279	40.1	127	18.2	12	1.7	77	11.1	20	2.9	8	1.1	0	0.0	696	100.0
Manning Base	113	22.1	242	47.3	97	18.9	6	1.2	38	7.4	8	1.6	8	1.6	0	0.0	512	100.0
Orange Base	116	17.4	268	40.2	153	23.0	11	1.7	62	9.3	48	7.2	8	1.2	0	0.0	666	100.0
Goulburn Base	53	23.7	49	21.9	38	17.0	1	0.4	73	32.6	6	2.7	4	1.8	0	0.0	224	100.0
Griffith Base	119	34.1	143	41.0	48	13.8	3	0.9	31	8.9	2	0.6	3	0.9	0	0.0	349	100.0
TOTAL	3300	23.8	4087	29.5	3654	26.3	308	2.2	1795	12.9	423	3.0	310	2.2	0	0.0	13877	100.0
Level 3																		
Blue Mountains	29	17.5	82	49.4	45	27.1	3	1.8	3	1.8	3	1.8	1	0.6	0	0.0	166	100.0
Kempsey	81	40.5	69	34.5	37	18.5	3	1.5	8	4.0	1	0.5	1	0.5	0	0.0	200	100.0
Armidale	78	24.8	139	44.3	46	14.6	3	1.0	34	10.8	9	2.9	5	1.6	0	0.0	314	100.0
Inverell	60	31.1	67	34.7	16	8.3	0	0.0	44	22.8	4	2.1	2	1.0	0	0.0	193	100.0
Mudgee	46	25.3	62	34.1	56	30.8	0	0.0	15	8.2	2	1.1	1	0.5	0	0.0	182	100.0
Bathurst Base	92	25.2	167	45.8	74	20.3	4	1.1	19	5.2	9	2.5	0	0.0	0	0.0	365	100.0
Lithgow	44	25.9	56	32.9	34	20.0	1	0.6	28	16.5	6	3.5	1	0.6	0	0.0	170	100.0
Bega	48	29.4	58	35.6	34	20.9	6	3.7	13	8.0	1	0.6	3	1.8	0	0.0	163	100.0
Moruya	67	29.3	79	34.5	52	22.7	10	4.4	11	4.8	6	2.6	4	1.7	0	0.0	229	100.0
Queanbeyan	75	23.3	106	32.9	103	32.0	2	0.6	22	6.8	5	1.6	9	2.8	0	0.0	322	100.0
Bowral	101	29.7	90	26.5	86	25.3	6	1.8	37	10.9	3	0.9	17	5.0	0	0.0	340	100.0
Shoalhaven	216	35.1	222	36.0	95	15.4	8	1.3	64	10.4	3	0.5	8	1.3	0	0.0	616	100.0
Broken Hill Base	60	37.3	60	37.3	21	13.0	0	0.0	14	8.7	4	2.5	2	1.2	0	0.0	161	100.0
Broken Hill Base	48	27.6	83	47.7	29	16.7	0	0.0	8	4.6	4	2.3	2	1.1	0	0.0	174	100.0
Other hospitals	544	34.0	555	34.7	293	18.3	27	1.7	114	7.1	46	2.9	20	1.3	0	0.0	1599	100.0
TOTAL	1541	30.7	1812	36.1	992	19.8	73	1.5	426	8.5	102	2.0	74	1.5	0	0.0	5020	100.0
Level 2																		
TOTAL	295	31.3	430	45.6	175	18.5	12	1.3	10	1.1	10	1.1	12	1.3	0	0.0	944	100.0
Private																		
Mater, North Sydney	260	20.1	214	16.6	364	28.2	6	0.5	348	26.9	41	3.2	57	4.4	3	0.2	1293	100.0
North Shore Private	211	17.4	257	21.2	401	33.1	13	1.1	298	24.6	5	0.4	26	2.1	0	0.0	1211	100.0
Sydney Adventist	258	21.2	308	25.3	355	29.2	6	0.5	263	21.6	15	1.2	10	0.8	0	0.0	1215	100.0
North Gosford Private	104	24.2	71	16.6	113	26.3	4	0.9	111	25.9	8	1.9	18	4.2	0	0.0	429	100.0
Hurstville Community	73	17.5	95	22.8	104	25.0	3	0.7	129	31.0	5	1.2	7	1.7	0	0.0	416	100.0
Kareena Private	82	18.9	83	19.2	170	39.3	4	0.9	82	18.9	1	0.2	11	2.5	0	0.0	433	100.0
St. George Private	168	17.7	200	21.1	362	38.2	21	2.2	174	18.4	3	0.3	19	2.0	0	0.0	947	100.0
Prince of Wales Private	234	19.1	209	17.1	334	27.3	6	0.5	353	28.9	45	3.7	41	3.4	1	0.1	1223	100.0
Norwest Private	275	20.8	216	16.3	442	33.4	6	0.5	295	22.3	37	2.8	53	4.0	0	0.0	1324	100.0
Sydney Southwest Private	99	18.6	97	18.3	117	22.0	7	1.3	192	36.2	7	1.3	12	2.3	0	0.0	531	100.0
Nepean Private	72	16.2	49	11.0	154	34.7	0	0.0	138	31.1	9	2.0	22	5.0	0	0.0	444	100.0
Westmead Private	161	12.6	201	15.8	318	25.0	6	0.5	542	42.5	5	0.4	41	3.2	0	0.0	1274	100.0
Figtree Private	76	13.8	103	18.7	159	28.9	4	0.7	201	36.5	0	0.0	7	1.3	0	0.0	550	100.0
Newcastle Private	237	20.4	222	19.2	446	38.5	26	2.2	136	11.7	16	1.4	75	6.5	1	0.1	1159	100.0
Calvary, Wagga Wagga	42	19.7	57	26.8	55	25.8	2	0.9	49	23.0	2	0.9	5	2.3	1	0.5	213	100.0
Other hospitals	0	0.0	1	20.0	2	40.0	0	0.0	1	20.0	0	0.0	1	20.0	0	0.0	5	100.0
TOTAL	2352	18.6	2383	18.8	3896	30.8	114	0.9	3312	26.1	199	1.6	405	3.2	6	0.0	12667	100.0
TOTAL NSW*	13653	20.9	19397	29.6	17344	26.5	1320	2.0	10276	15.7	2297	3.5	1182	1.8	12	0.0	65481	100.0

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

Hospitals with more than 200 births in 2013 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 43 shows the birth weight of babies for local health districts, and Table 44 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2013.

TABLE 43: BIRTHS BY BIRTH WEIGHT AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2013

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	62	0.9	68	1.0	381	5.4	6476	92.5	17	0.2	7004	100.0
South Western Sydney	85	0.8	52	0.5	609	5.7	9915	92.9	9	0.1	10670	100.0
South Eastern Sydney	77	1.0	62	0.8	449	5.7	7320	92.5	6	0.1	7914	100.0
Illawarra Shoalhaven	12	0.4	6	0.2	192	5.8	3105	93.7	0	0.0	3315	100.0
Western Sydney	96	1.0	85	0.9	555	5.7	9017	92.3	11	0.1	9764	100.0
Nepean Blue Mountains	58	1.2	50	1.0	325	6.5	4603	91.4	2	0.0	5038	100.0
Northern Sydney	52	1.0	61	1.1	288	5.4	4906	92.3	9	0.2	5316	100.0
Central Coast	13	0.4	5	0.2	140	4.8	2733	94.3	8	0.3	2899	100.0
Hunter New England	89	0.9	91	1.0	601	6.4	8596	91.6	6	0.1	9383	100.0
Northern NSW	16	0.4	5	0.1	149	4.2	3388	95.1	3	0.1	3561	100.0
Mid North Coast	9	0.4	3	0.1	119	5.4	2093	94.1	0	0.0	2224	100.0
Southern NSW	5	0.4	2	0.1	49	3.5	1341	95.9	1	0.1	1398	100.0
Murrumbidgee	8	0.4	8	0.4	90	4.8	1758	94.1	4	0.2	1868	100.0
Western NSW	14	0.4	13	0.4	179	5.1	3279	94.1	1	0.0	3486	100.0
Far West	1	0.4	0	0.0	9	4.0	214	95.5	0	0.0	224	100.0
Private Hospitals	48	0.2	13	0.1	849	3.7	21873	95.9	19	0.1	22802	100.0
TOTAL*	645	0.7	524	0.5	4985	5.1	90718	93.6	99	0.1	96971	100.0

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

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

TABLE 44: BIRTHS BY BIRTH WEIGHT, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2013*

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	57	1.1	65	1.2	314	6.0	4755	91.4	12	0.2	5203	100.0
Royal Hospital for Women	61	1.5	56	1.4	278	6.8	3680	90.2	5	0.1	4080	100.0
Nepean	55	1.5	49	1.3	290	7.7	3372	89.5	1	0.0	3767	100.0
Royal North Shore	43	1.7	61	2.4	212	8.3	2223	87.4	5	0.2	2544	100.0
Liverpool	72	2.2	48	1.5	310	9.6	2795	86.6	4	0.1	3229	100.0
Westmead	72	1.3	79	1.5	380	7.1	4834	89.9	11	0.2	5376	100.0
John Hunter	78	1.9	82	2.0	369	8.9	3591	87.1	4	0.1	4124	100.0
TOTAL	438	1.5	440	1.6	2153	7.6	25250	89.2	42	0.1	28323	100.0
Level 5												
Blacktown	15	0.5	6	0.2	145	4.7	2905	94.6	0	0.0	3071	100.0
Port Macquarie Base	6	0.7	1	0.1	54	6.6	761	92.6	0	0.0	822	100.0
Gosford	13	0.5	5	0.2	138	5.1	2567	94.0	8	0.3	2731	100.0
Dubbo Base	8	0.7	7	0.6	74	6.1	1126	92.7	0	0.0	1215	100.0
Lismore Base	7	0.6	2	0.2	61	4.9	1182	94.3	2	0.2	1254	100.0
St. George	14	0.6	4	0.2	140	5.6	2340	93.6	1	0.0	2499	100.0
Tweed Heads	6	0.4	0	0.0	54	3.5	1464	96.0	1	0.1	1525	100.0
Wagga Wagga Base	5	0.6	8	1.0	53	6.7	719	91.5	1	0.1	786	100.0
Wollongong	11	0.5	5	0.2	137	5.9	2177	93.4	0	0.0	2330	100.0
Maitland	4	0.2	3	0.2	85	5.1	1586	94.4	2	0.1	1680	100.0
Coffs Harbour	0	0.0	1	0.1	53	4.9	1035	95.0	0	0.0	1089	100.0
TOTAL	89	0.5	42	0.2	994	5.2	17862	94.0	15	0.1	19002	100.0
Level 4												
Manning Base	2	0.3	2	0.3	36	5.3	634	94.1	0	0.0	674	100.0
Canterbury	5	0.3	3	0.2	67	3.7	1721	95.6	5	0.3	1801	100.0
Campbelltown	7	0.2	2	0.1	118	4.0	2823	95.7	0	0.0	2950	100.0
Auburn	9	0.7	0	0.0	30	2.3	1278	97.0	0	0.0	1317	100.0
Hornsby	5	0.4	0	0.0	42	3.8	1072	95.8	0	0.0	1119	100.0
Sutherland	2	0.1	2	0.1	31	2.3	1299	97.4	0	0.0	1334	100.0
Manly	4	0.4	0	0.0	19	1.9	953	97.3	3	0.3	979	100.0
Tamworth Base	3	0.3	2	0.2	41	4.1	948	95.4	0	0.0	994	100.0
Grafton Base	3	0.7	2	0.4	30	6.6	422	92.3	0	0.0	457	100.0

(Continued on next page)

TABLE 44: (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	3	0.4	1	0.1	22	2.7	787	96.8	0	0.0	813	100.0
Griffith Base	1	0.2	0	0.0	25	5.2	458	94.4	1	0.2	485	100.0
Goulburn Base	3	1.0	1	0.3	20	6.7	275	92.0	0	0.0	299	100.0
Bankstown-Lidcombe	3	0.1	1	0.0	96	4.4	2062	95.2	4	0.2	2166	100.0
Fairfield	1	0.1	0	0.0	77	4.1	1777	95.7	1	0.1	1856	100.0
Orange Base	0	0.0	5	0.5	67	6.5	962	93.0	0	0.0	1034	100.0
Mona Vale	0	0.0	0	0.0	15	2.7	530	97.1	1	0.2	546	100.0
TOTAL	51	0.3	21	0.1	736	3.9	18001	95.6	15	0.1	18824	100.0
Level 3												
Broken Hill Base	1	0.4	0	0.0	9	4.0	214	95.5	0	0.0	224	100.0
Kempsey	3	1.2	1	0.4	12	4.7	237	93.7	0	0.0	253	100.0
Armidale	2	0.4	0	0.0	33	7.3	414	92.2	0	0.0	449	100.0
Bowral	2	0.4	1	0.2	8	1.7	458	97.7	0	0.0	469	100.0
Other hospitals	5	0.2	3	0.1	48	2.2	2100	97.3	2	0.1	2158	100.0
Bathurst Base	3	0.6	0	0.0	19	3.7	493	95.7	0	0.0	515	100.0
Moruya	2	0.7	1	0.3	14	4.7	283	94.3	0	0.0	300	100.0
Shoalhaven	1	0.1	1	0.1	53	6.0	834	93.8	0	0.0	889	100.0
Inverell	0	0.0	1	0.3	15	5.1	277	94.5	0	0.0	293	100.0
Lithgow	0	0.0	0	0.0	10	4.3	222	95.7	0	0.0	232	100.0
Bega	0	0.0	0	0.0	7	3.3	208	96.7	0	0.0	215	100.0
Mudgee	0	0.0	0	0.0	5	2.0	241	98.0	0	0.0	246	100.0
Blue Mountains	0	0.0	0	0.0	3	1.3	222	98.2	1	0.4	226	100.0
Queanbeyan	0	0.0	0	0.0	3	0.7	426	99.1	1	0.2	430	100.0
TOTAL	19	0.3	8	0.1	239	3.5	6629	96.1	4	0.1	6899	100.0
Level 2												
TOTAL	0	0.0	0	0.0	9	0.9	987	99.1	0	0.0	996	100.0
Private												
Newcastle Private	5	0.3	1	0.1	63	3.3	1833	95.7	13	0.7	1915	100.0
North Shore Private	9	0.4	5	0.2	94	4.0	2232	95.4	0	0.0	2340	100.0
Norwest Private	5	0.2	1	0.0	81	3.9	1973	95.7	2	0.1	2062	100.0
Nepean Private	3	0.4	0	0.0	18	2.2	804	97.5	0	0.0	825	100.0
Hurstville Community	2	0.3	0	0.0	34	4.5	721	95.2	0	0.0	757	100.0
St. George Private	4	0.2	2	0.1	77	4.4	1666	95.2	1	0.1	1750	100.0
Kareena Private	3	0.4	0	0.0	25	3.2	756	96.4	0	0.0	784	100.0
North Gosford Private	2	0.3	0	0.0	23	2.9	771	96.7	1	0.1	797	100.0
Sydney Adventist	4	0.2	2	0.1	75	3.9	1851	95.8	0	0.0	1932	100.0
Calvary, Wagga Wagga	1	0.2	0	0.0	17	3.6	452	96.2	0	0.0	470	100.0
Westmead Private	4	0.2	2	0.1	94	4.2	2151	95.6	0	0.0	2251	100.0
Prince of Wales Private	2	0.1	0	0.0	87	3.3	2517	96.6	0	0.0	2606	100.0
Figtree Private	2	0.2	0	0.0	26	2.8	914	96.9	1	0.1	943	100.0
Mater, North Sydney	1	0.0	0	0.0	112	4.5	2368	95.4	1	0.0	2482	100.0
Sydney Southwest Private	1	0.1	0	0.0	23	2.7	823	97.2	0	0.0	847	100.0
Other hospitals	0	0.0	0	0.0	0	0.0	41	100.0	0	0.0	41	100.0
TOTAL	48	0.2	13	0.1	849	3.7	21873	95.9	19	0.1	22802	100.0
TOTAL NSW*	645	0.7	524	0.5	4985	5.1	90718	93.6	99	0.1	96971	100.0

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

Hospitals with more than 200 births in 2013 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 45 shows the gestational age of babies for local health districts, and Table 46 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2013.

TABLE 45: BIRTHS BY GESTATIONAL AGE AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2013

Local Health District	Gestational age											
	<32		32–33		34–36		37+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	157	2.2	81	1.2	361	5.2	6405	91.4	0	0.0	7004	100.0
South Western Sydney	172	1.6	98	0.9	541	5.1	9859	92.4	0	0.0	10670	100.0
South Eastern Sydney	169	2.1	93	1.2	446	5.6	7206	91.1	0	0.0	7914	100.0
Illawarra Shoalhaven	20	0.6	37	1.1	199	6.0	3059	92.3	0	0.0	3315	100.0
Western Sydney	189	1.9	85	0.9	478	4.9	9012	92.3	0	0.0	9764	100.0
Nepean Blue Mountains	127	2.5	72	1.4	344	6.8	4494	89.2	1	0.0	5038	100.0
Northern Sydney	117	2.2	85	1.6	227	4.3	4887	91.9	0	0.0	5316	100.0
Central Coast	24	0.8	20	0.7	167	5.8	2688	92.7	0	0.0	2899	100.0
Hunter New England	212	2.3	122	1.3	581	6.2	8468	90.2	0	0.0	9383	100.0
Northern NSW	25	0.7	13	0.4	195	5.5	3328	93.5	0	0.0	3561	100.0
Mid North Coast	15	0.7	14	0.6	106	4.8	2087	93.8	2	0.1	2224	100.0
Southern NSW	9	0.6	4	0.3	40	2.9	1345	96.2	0	0.0	1398	100.0
Murrumbidgee	15	0.8	12	0.6	118	6.3	1723	92.2	0	0.0	1868	100.0
Western NSW	28	0.8	20	0.6	246	7.1	3192	91.6	0	0.0	3486	100.0
Far West	1	0.4	1	0.4	6	2.7	216	96.4	0	0.0	224	100.0
Private Hospitals	69	0.3	74	0.3	1172	5.1	21479	94.2	8	0.0	22802	100.0
TOTAL*	1349	1.4	831	0.9	5228	5.4	89552	92.3	11	0.0	96971	100.0

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

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

TABLE 46: BIRTHS BY GESTATIONAL AGE, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2013^a

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	144	2.8	77	1.5	295	5.7	4687	90.1	0	0.0	5203	100.0
Royal North Shore	111	4.4	80	3.1	132	5.2	2221	87.3	0	0.0	2544	100.0
Royal Hospital for Women	137	3.4	74	1.8	248	6.1	3621	88.8	0	0.0	4080	100.0
Liverpool	145	4.5	85	2.6	222	6.9	2777	86.0	0	0.0	3229	100.0
Nepean	120	3.2	70	1.9	284	7.5	3293	87.4	0	0.0	3767	100.0
Westmead	160	3.0	69	1.3	309	5.7	4838	90.0	0	0.0	5376	100.0
John Hunter	183	4.4	103	2.5	303	7.3	3535	85.7	0	0.0	4124	100.0
TOTAL	1000	3.5	558	2.0	1793	6.3	24972	88.2	0	0.0	28323	100.0
Level 5												
Gosford	24	0.9	19	0.7	166	6.1	2522	92.3	0	0.0	2731	100.0
St. George	26	1.0	17	0.7	147	5.9	2309	92.4	0	0.0	2499	100.0
Blacktown	20	0.7	14	0.5	139	4.5	2898	94.4	0	0.0	3071	100.0
Lismore Base	12	1.0	3	0.2	85	6.8	1154	92.0	0	0.0	1254	100.0
Tweed Heads	8	0.5	7	0.5	71	4.7	1439	94.4	0	0.0	1525	100.0
Port Macquarie Base	8	1.0	4	0.5	50	6.1	758	92.2	2	0.2	822	100.0
Dubbo Base	14	1.2	11	0.9	102	8.4	1088	89.5	0	0.0	1215	100.0
Wollongong	16	0.7	35	1.5	151	6.5	2128	91.3	0	0.0	2330	100.0
Maitland	12	0.7	2	0.1	106	6.3	1560	92.9	0	0.0	1680	100.0
Wagga Wagga Base	11	1.4	8	1.0	73	9.3	694	88.3	0	0.0	786	100.0
Coffs Harbour	4	0.4	7	0.6	45	4.1	1033	94.9	0	0.0	1089	100.0
TOTAL	155	0.8	127	0.7	1135	6.0	17583	92.5	2	0.0	19002	100.0
Level 4												
Canterbury	13	0.7	4	0.2	66	3.7	1718	95.4	0	0.0	1801	100.0
Sutherland	6	0.4	2	0.1	51	3.8	1275	95.6	0	0.0	1334	100.0
Auburn	9	0.7	2	0.2	30	2.3	1276	96.9	0	0.0	1317	100.0
Campbelltown	14	0.5	8	0.3	139	4.7	2789	94.5	0	0.0	2950	100.0
Grafton Base	5	1.1	2	0.4	37	8.1	413	90.4	0	0.0	457	100.0
Griffith Base	2	0.4	1	0.2	31	6.4	451	93.0	0	0.0	485	100.0
Manly	2	0.2	2	0.2	29	3.0	946	96.6	0	0.0	979	100.0
Fairfield	3	0.2	2	0.1	80	4.3	1771	95.4	0	0.0	1856	100.0
Bankstown-Lidcombe	8	0.4	3	0.1	91	4.2	2064	95.3	0	0.0	2166	100.0

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TABLE 46: (Continued)

Maternity service level–hospital	Gestational age											
	<32		32–33		34–36		37+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Hawkesbury	5	0.6	1	0.1	44	5.4	762	93.7	1	0.1	813	100.0
Tamworth Base	6	0.6	3	0.3	55	5.5	930	93.6	0	0.0	994	100.0
Manning Base	6	0.9	6	0.9	46	6.8	616	91.4	0	0.0	674	100.0
Orange Base	6	0.6	5	0.5	98	9.5	925	89.5	0	0.0	1034	100.0
Hornsby	4	0.4	3	0.3	46	4.1	1066	95.3	0	0.0	1119	100.0
Goulburn Base	5	1.7	2	0.7	16	5.4	276	92.3	0	0.0	299	100.0
Mona Vale	0	0.0	0	0.0	20	3.7	526	96.3	0	0.0	546	100.0
TOTAL	94	0.5	46	0.2	879	4.7	17804	94.6	1	0.0	18824	100.0
Level 3												
Blue Mountains	1	0.4	0	0.0	2	0.9	223	98.7	0	0.0	226	100.0
Kempsey	3	1.2	3	1.2	10	4.0	237	93.7	0	0.0	253	100.0
Armidale	3	0.7	5	1.1	21	4.7	420	93.5	0	0.0	449	100.0
Bathurst Base	3	0.6	3	0.6	19	3.7	490	95.1	0	0.0	515	100.0
Bowral	2	0.4	0	0.0	9	1.9	458	97.7	0	0.0	469	100.0
Moruya	2	0.7	1	0.3	10	3.3	287	95.7	0	0.0	300	100.0
Broken Hill Base	1	0.4	1	0.4	6	2.7	216	96.4	0	0.0	224	100.0
Other hospitals	7	0.3	6	0.3	47	2.2	2098	97.2	0	0.0	2158	100.0
Inverell	1	0.3	0	0.0	27	9.2	265	90.4	0	0.0	293	100.0
Shoalhaven	4	0.4	1	0.1	46	5.2	838	94.3	0	0.0	889	100.0
Lithgow	1	0.4	1	0.4	14	6.0	216	93.1	0	0.0	232	100.0
Bega	1	0.5	1	0.5	7	3.3	206	95.8	0	0.0	215	100.0
Queanbeyan	1	0.2	0	0.0	5	1.2	424	98.6	0	0.0	430	100.0
Mudgee	0	0.0	1	0.4	9	3.7	236	95.9	0	0.0	246	100.0
TOTAL	30	0.4	23	0.3	232	3.4	6614	95.9	0	0.0	6899	100.0
Level 2												
TOTAL	0	0.0	3	0.3	10	1.0	983	98.7	0	0.0	996	100.0
Private												
North Shore Private	11	0.5	10	0.4	156	6.7	2163	92.4	0	0.0	2340	100.0
St. George Private	7	0.4	6	0.3	106	6.1	1631	93.2	0	0.0	1750	100.0
Norwest Private	9	0.4	10	0.5	99	4.8	1944	94.3	0	0.0	2062	100.0
Westmead Private	6	0.3	2	0.1	96	4.3	2147	95.4	0	0.0	2251	100.0
Newcastle Private	6	0.3	0	0.0	110	5.7	1793	93.6	6	0.3	1915	100.0
North Gosford Private	2	0.3	0	0.0	47	5.9	748	93.9	0	0.0	797	100.0
Hurstville Community	3	0.4	2	0.3	46	6.1	706	93.3	0	0.0	757	100.0
Nepean Private	4	0.5	1	0.1	41	5.0	778	94.3	1	0.1	825	100.0
Figtree Private	3	0.3	0	0.0	30	3.2	910	96.5	0	0.0	943	100.0
Calvary, Wagga Wagga	1	0.2	1	0.2	35	7.4	433	92.1	0	0.0	470	100.0
Sydney Adventist	4	0.2	12	0.6	89	4.6	1827	94.6	0	0.0	1932	100.0
Kareena Private	3	0.4	0	0.0	44	5.6	737	94.0	0	0.0	784	100.0
Prince of Wales Private	2	0.1	7	0.3	119	4.6	2477	95.0	1	0.0	2606	100.0
Mater, North Sydney	5	0.2	21	0.8	120	4.8	2336	94.1	0	0.0	2482	100.0
Sydney Southwest Private	3	0.4	2	0.2	34	4.0	808	95.4	0	0.0	847	100.0
Other hospitals	0	0.0	0	0.0	0	0.0	41	100.0	0	0.0	41	100.0
TOTAL	69	0.3	74	0.3	1172	5.1	21479	94.2	8	0.0	22802	100.0
TOTAL NSW*	1349	1.4	831	0.9	5228	5.4	89552	92.3	11	0.0	96971	100.0

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

Hospitals with more than 200 births in 2013 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 47 shows the type of neonatal resuscitation for local health districts, and Table 48 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2013.

TABLE 47: BIRTHS BY TYPE OF RESUSCITATION AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2013

Local Health District	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.	%
Sydney	5825	83.2	162	2.3	292	4.2	587	8.4	82	1.2	56	0.8	7004	100.0
South Western Sydney	9489	88.9	193	1.8	363	3.4	534	5.0	39	0.4	52	0.5	10670	100.0
South Eastern Sydney	6220	78.6	507	6.4	254	3.2	815	10.3	84	1.1	34	0.4	7914	100.0
Illawarra Shoalhaven	2750	83.0	129	3.9	156	4.7	247	7.5	6	0.2	27	0.8	3315	100.0
Western Sydney	7629	78.1	930	9.5	275	2.8	737	7.5	162	1.7	31	0.3	9764	100.0
Nepean Blue Mountains	3693	73.3	426	8.5	369	7.3	468	9.3	71	1.4	11	0.2	5038	100.0
Northern Sydney	4330	81.5	252	4.7	171	3.2	497	9.3	48	0.9	18	0.3	5316	100.0
Central Coast	2280	78.6	171	5.9	92	3.2	342	11.8	5	0.2	9	0.3	2899	100.0
Hunter New England	7423	79.1	274	2.9	417	4.4	1179	12.6	43	0.5	47	0.5	9383	100.0
Northern NSW	2862	80.4	156	4.4	126	3.5	397	11.1	9	0.3	11	0.3	3561	100.0
Mid North Coast	1901	85.5	37	1.7	67	3.0	204	9.2	8	0.4	7	0.3	2224	100.0
Southern NSW	1213	86.8	25	1.8	37	2.6	117	8.4	1	0.1	5	0.4	1398	100.0
Murrumbidgee	1569	84.0	44	2.4	76	4.1	170	9.1	3	0.2	6	0.3	1868	100.0
Western NSW	3032	87.0	70	2.0	70	2.0	281	8.1	9	0.3	24	0.7	3486	100.0
Far West	184	82.1	6	2.7	3	1.3	27	12.1	2	0.9	2	0.9	224	100.0
Private Hospitals	18579	81.5	1783	7.8	1553	6.8	837	3.7	24	0.1	26	0.1	22802	100.0
TOTAL*	79078	81.5	5167	5.3	4325	4.5	7439	7.7	596	0.6	366	0.4	96971	100.0

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

IPPR: Intermittent positive pressure respiration.

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

TABLE 48: BIRTHS BY TYPE OF RESUSCITATION, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2013*

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.	%
Level 6														
Royal Prince Alfred	4210	80.9	113	2.2	212	4.1	541	10.4	82	1.6	45	0.9	5203	100.0
Royal North Shore	1973	77.6	180	7.1	56	2.2	285	11.2	45	1.8	5	0.2	2544	100.0
Royal Hospital for Women	3050	74.8	347	8.5	133	3.3	458	11.2	79	1.9	13	0.3	4080	100.0
Liverpool	2699	83.6	113	3.5	113	3.5	261	8.1	34	1.1	9	0.3	3229	100.0
Nepean	2717	72.1	341	9.1	236	6.3	395	10.5	69	1.8	9	0.2	3767	100.0
Westmead	4219	78.5	364	6.8	112	2.1	519	9.7	142	2.6	20	0.4	5376	100.0
John Hunter	3108	75.4	179	4.3	97	2.4	694	16.8	27	0.7	19	0.5	4124	100.0
TOTAL	21976	77.6	1637	5.8	959	3.4	3153	11.1	478	1.7	120	0.4	28323	100.0
Level 5														
Gosford	2121	77.7	170	6.2	90	3.3	336	12.3	5	0.2	9	0.3	2731	100.0
St. George	2037	81.5	101	4.0	88	3.5	255	10.2	1	0.0	17	0.7	2499	100.0
Blacktown	2209	71.9	546	17.8	130	4.2	163	5.3	17	0.6	6	0.2	3071	100.0
Coffs Harbour	929	85.3	24	2.2	45	4.1	82	7.5	5	0.5	4	0.4	1089	100.0
Lismore Base	982	78.3	48	3.8	63	5.0	154	12.3	6	0.5	1	0.1	1254	100.0
Tweed Heads	1207	79.1	95	6.2	46	3.0	169	11.1	2	0.1	6	0.4	1525	100.0
Port Macquarie Base	696	84.7	10	1.2	15	1.8	95	11.6	3	0.4	3	0.4	822	100.0
Dubbo Base	1059	87.2	29	2.4	32	2.6	92	7.6	1	0.1	2	0.2	1215	100.0
Wollongong	1911	82.0	85	3.6	115	4.9	197	8.5	4	0.2	18	0.8	2330	100.0
Maitland	1438	85.6	21	1.3	46	2.7	165	9.8	2	0.1	8	0.5	1680	100.0
Wagga Wagga Base	644	81.9	21	2.7	16	2.0	100	12.7	3	0.4	2	0.3	786	100.0
TOTAL	15233	80.2	1150	6.1	686	3.6	1808	9.5	49	0.3	76	0.4	19002	100.0
Level 4														
Canterbury	1615	89.7	49	2.7	80	4.4	46	2.6	0	0.0	11	0.6	1801	100.0
Hornsby	934	83.5	35	3.1	52	4.6	93	8.3	1	0.1	4	0.4	1119	100.0
Manly	832	85.0	20	2.0	50	5.1	69	7.0	1	0.1	7	0.7	979	100.0
Mona Vale	471	86.3	16	2.9	13	2.4	44	8.1	0	0.0	2	0.4	546	100.0
Sutherland	1133	84.9	58	4.3	33	2.5	102	7.6	4	0.3	4	0.3	1334	100.0
Auburn	1201	91.2	20	1.5	33	2.5	55	4.2	3	0.2	5	0.4	1317	100.0

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TABLE 48: (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	1735	93.5	20	1.1	46	2.5	45	2.4	3	0.2	7	0.4	1856	100.0
Campbelltown	2658	90.1	24	0.8	97	3.3	149	5.1	1	0.0	21	0.7	2950	100.0
Bankstown-Lidcombe	1980	91.4	33	1.5	85	3.9	54	2.5	0	0.0	14	0.6	2166	100.0
Hawkesbury	609	74.9	62	7.6	97	11.9	43	5.3	0	0.0	2	0.2	813	100.0
Grafton Base	385	84.2	10	2.2	4	0.9	53	11.6	1	0.2	4	0.9	457	100.0
Tamworth Base	811	81.6	21	2.1	29	2.9	125	12.6	1	0.1	7	0.7	994	100.0
Manning Base	574	85.2	8	1.2	17	2.5	59	8.8	8	1.2	8	1.2	674	100.0
Orange Base	905	87.5	14	1.4	14	1.4	84	8.1	3	0.3	14	1.4	1034	100.0
Goulburn Base	221	73.9	16	5.4	16	5.4	45	15.1	0	0.0	1	0.3	299	100.0
Griffith Base	402	82.9	13	2.7	30	6.2	39	8.0	0	0.0	1	0.2	485	100.0
TOTAL	16466	87.5	419	2.2	696	3.7	1105	5.9	26	0.1	112	0.6	18824	100.0
Level 3														
Blue Mountains	183	81.0	16	7.1	15	6.6	11	4.9	1	0.4	0	0.0	226	100.0
Kempsey	221	87.4	2	0.8	5	2.0	25	9.9	0	0.0	0	0.0	253	100.0
Armidale	343	76.4	6	1.3	63	14.0	36	8.0	0	0.0	1	0.2	449	100.0
Inverell	125	42.7	8	2.7	137	46.8	21	7.2	2	0.7	0	0.0	293	100.0
Mudgee	223	90.7	1	0.4	3	1.2	17	6.9	2	0.8	0	0.0	246	100.0
Bathurst Base	416	80.8	22	4.3	13	2.5	60	11.7	3	0.6	1	0.2	515	100.0
Lithgow	184	79.3	7	3.0	21	9.1	19	8.2	1	0.4	0	0.0	232	100.0
Bega	184	85.6	2	0.9	12	5.6	15	7.0	1	0.5	1	0.5	215	100.0
Moruya	268	89.3	6	2.0	2	0.7	22	7.3	0	0.0	2	0.7	300	100.0
Queanbeyan	395	91.9	1	0.2	7	1.6	26	6.0	0	0.0	1	0.2	430	100.0
Bowral	417	88.9	3	0.6	22	4.7	25	5.3	1	0.2	1	0.2	469	100.0
Shoalhaven	757	85.2	44	4.9	34	3.8	44	4.9	2	0.2	8	0.9	889	100.0
Broken Hill Base	184	82.1	6	2.7	3	1.3	27	12.1	2	0.9	2	0.9	224	100.0
Other hospitals	1900	88.0	43	2.0	68	3.2	135	6.3	2	0.1	10	0.5	2158	100.0
TOTAL	5800	84.1	167	2.4	405	5.9	483	7.0	17	0.2	27	0.4	6899	100.0
Level 2														
TOTAL	912	91.6	8	0.8	19	1.9	52	5.2	2	0.2	3	0.3	996	100.0
Private														
Mater, North Sydney	2016	81.2	93	3.7	274	11.0	96	3.9	1	0.0	2	0.1	2482	100.0
North Shore Private	2003	85.6	144	6.2	126	5.4	66	2.8	0	0.0	1	0.0	2340	100.0
Sydney Adventist	1817	94.0	9	0.5	45	2.3	60	3.1	0	0.0	1	0.1	1932	100.0
North Gosford Private	704	88.3	15	1.9	45	5.6	30	3.8	0	0.0	3	0.4	797	100.0
Hurstville Community	527	69.6	122	16.1	80	10.6	25	3.3	2	0.3	1	0.1	757	100.0
Kareena Private	650	82.9	57	7.3	48	6.1	29	3.7	0	0.0	0	0.0	784	100.0
St. George Private	1262	72.1	146	8.3	254	14.5	79	4.5	5	0.3	4	0.2	1750	100.0
Prince of Wales Private	2070	79.4	190	7.3	210	8.1	127	4.9	7	0.3	2	0.1	2606	100.0
Norwest Private	1820	88.3	10	0.5	145	7.0	81	3.9	1	0.0	5	0.2	2062	100.0
Sydney Southwest Private	720	85.0	57	6.7	47	5.5	21	2.5	1	0.1	1	0.1	847	100.0
Nepean Private	638	77.3	51	6.2	111	13.5	22	2.7	2	0.2	1	0.1	825	100.0
Westmead Private	2015	89.5	91	4.0	77	3.4	65	2.9	1	0.0	2	0.1	2251	100.0
Figtree Private	146	15.5	745	79.0	35	3.7	15	1.6	2	0.2	0	0.0	943	100.0
Newcastle Private	1747	91.2	31	1.6	33	1.7	100	5.2	1	0.1	3	0.2	1915	100.0
Calvary, Wagga Wagga	409	87.0	21	4.5	19	4.0	20	4.3	1	0.2	0	0.0	470	100.0
Other hospitals	35	85.4	1	2.4	4	9.8	1	2.4	0	0.0	0	0.0	41	100.0
TOTAL	18579	81.5	1783	7.8	1553	6.8	837	3.7	24	0.1	26	0.1	22802	100.0
TOTAL NSW*	79078	81.5	5167	5.3	4325	4.5	7439	7.7	596	0.6	366	0.4	96971	100.0

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

IPPR: intermittent positive pressure respiration.

Hospitals with more than 200 births in 2013 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.

Admission to special care or neonatal intensive care

Tables 49 shows admissions of live born babies to special care or neonatal intensive care for local health districts, and Table 50 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2013.

TABLE 49: LIVE BIRTHS BY ADMISSION TO SPECIAL CARE OR NEONATAL INTENSIVE CARE AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2013

Local Health District	Admission to special care or NICU					
	No		Yes		TOTAL	
	No.	%	No.	%	No.	%
Sydney	6120	88.1	825	11.9	6945	100.0
South Western Sydney	9485	89.4	1119	10.6	10604	100.0
South Eastern Sydney	6323	80.5	1536	19.5	7859	100.0
Illawarra Shoalhaven	2688	81.5	609	18.5	3297	100.0
Western Sydney	7778	80.2	1916	19.8	9694	100.0
Nepean Blue Mountains	4049	80.9	954	19.1	5003	100.0
Northern Sydney	4495	85.1	784	14.9	5279	100.0
Central Coast	2260	78.4	621	21.6	2881	100.0
Hunter New England	7652	82.1	1665	17.9	9317	100.0
Northern NSW	2864	80.9	677	19.1	3541	100.0
Mid North Coast	1807	81.7	404	18.3	2211	100.0
Southern NSW	1288	92.7	102	7.3	1390	100.0
Murrumbidgee	1481	80.0	371	20.0	1852	100.0
Western NSW	2859	82.6	602	17.4	3461	100.0
Far West	193	86.5	30	13.5	223	100.0
Private Hospitals	20655	90.8	2083	9.2	22738	100.0
TOTAL*	82090	85.2	14298	14.8	96388	100.0

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

NICU: neonatal intensive care unit.

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

TABLE 50: LIVE BIRTHS BY ADMISSION TO SPECIAL CARE OR NEONATAL INTENSIVE CARE, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2013*

Maternity service level-hospital	Admission to special care or NICU					
	No		Yes		TOTAL	
	No.	%	No.	%	No.	%
Level 6						
Royal Prince Alfred	4583	88.9	572	11.1	5155	100.0
Royal North Shore	2179	86.7	333	13.3	2512	100.0
Royal Hospital for Women	3297	81.5	746	18.5	4043	100.0
Liverpool	2729	85.5	463	14.5	3192	100.0
Nepean	2982	79.7	759	20.3	3741	100.0
Westmead	4226	79.3	1101	20.7	5327	100.0
John Hunter	3273	80.3	804	19.7	4077	100.0
TOTAL	23269	83.0	4778	17.0	28047	100.0
Level 5						
Gosford	2101	77.4	612	22.6	2713	100.0
St. George	1958	78.7	529	21.3	2487	100.0
Blacktown	2496	81.6	561	18.4	3057	100.0
Coffs Harbour	825	76.0	261	24.0	1086	100.0
Lismore Base	999	80.4	244	19.6	1243	100.0
Tweed Heads	1191	78.4	328	21.6	1519	100.0
Port Macquarie Base	699	85.9	115	14.1	814	100.0
Dubbo Base	920	76.3	285	23.7	1205	100.0
Wollongong	1803	77.7	517	22.3	2320	100.0
Maitland	1341	80.2	331	19.8	1672	100.0
Wagga Wagga Base	562	72.3	215	27.7	777	100.0
TOTAL	14895	78.8	3998	21.2	18893	100.0
Level 4						
Canterbury	1537	85.9	253	14.1	1790	100.0
Hornsby	959	85.8	159	14.2	1118	100.0
Manly	752	77.0	225	23.0	977	100.0
Mona Vale	477	87.7	67	12.3	544	100.0
Sutherland	1067	80.3	261	19.7	1328	100.0
Auburn	1056	80.6	254	19.4	1310	100.0
Fairfield	1651	89.2	200	10.8	1851	100.0

(Continued on next page)

TABLE 50: (Continued)

Maternity service level–hospital	Admission to special care or NICU					
	No		Yes		TOTAL	
	No.	%	No.	%	No.	%
Campbelltown	2771	94.4	165	5.6	2936	100.0
Bankstown-Lidcombe	1888	87.6	268	12.4	2156	100.0
Hawkesbury	638	79.2	168	20.8	806	100.0
Grafton Base	361	79.3	94	20.7	455	100.0
Tamworth Base	727	73.5	262	26.5	989	100.0
Manning Base	520	77.4	152	22.6	672	100.0
Orange Base	838	81.5	190	18.5	1028	100.0
Goulburn Base	241	81.4	55	18.6	296	100.0
Griffith Base	340	70.8	140	29.2	480	100.0
TOTAL	15823	84.5	2913	15.5	18736	100.0
Level 3						
Blue Mountains	211	94.2	13	5.8	224	100.0
Kempsey	223	88.8	28	11.2	251	100.0
Armidale	389	87.0	58	13.0	447	100.0
Inverell	277	94.5	16	5.5	293	100.0
Mudgee	230	93.5	16	6.5	246	100.0
Bathurst Base	420	81.9	93	18.1	513	100.0
Lithgow	218	94.0	14	6.0	232	100.0
Bega	197	92.1	17	7.9	214	100.0
Moruya	280	94.6	16	5.4	296	100.0
Queanbeyan	422	98.1	8	1.9	430	100.0
Bowral	446	95.1	23	4.9	469	100.0
Shoalhaven	793	90.0	88	10.0	881	100.0
Broken Hill Base	193	86.5	30	13.5	223	100.0
Other hospitals	2078	96.6	74	3.4	2152	100.0
TOTAL	6377	92.8	494	7.2	6871	100.0
Level 2						
TOTAL	965	97.1	29	2.9	994	100.0
Private						
Mater, North Sydney	2153	87.0	323	13.0	2476	100.0
North Shore Private	2316	99.5	12	0.5	2328	100.0
Sydney Adventist	1614	83.8	313	16.2	1927	100.0
North Gosford Private	709	89.1	87	10.9	796	100.0
Hurstville Community	648	85.7	108	14.3	756	100.0
Kareena Private	781	100.0	0	0.0	781	100.0
St. George Private	1743	99.9	2	0.1	1745	100.0
Prince of Wales Private	2283	87.8	318	12.2	2601	100.0
Norwest Private	1794	87.2	264	12.8	2058	100.0
Sydney Southwest Private	717	84.8	129	15.2	846	100.0
Nepean Private	590	72.0	229	28.0	819	100.0
Westmead Private	2239	99.6	8	0.4	2247	100.0
Figtree Private	937	99.7	3	0.3	940	100.0
Newcastle Private	1705	89.4	202	10.6	1907	100.0
Calvary, Wagga Wagga	387	82.3	83	17.7	470	100.0
Other hospitals	39	95.1	2	4.9	41	100.0
TOTAL	20655	90.8	2083	9.2	22738	100.0
TOTAL NSW*	82090	85.2	14298	14.8	96388	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 2013 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 51 shows infant feeding at discharge from the hospital of birth for local health districts, and Table 52 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2013.

TABLE 51: LIVE BIRTHS BY TYPE OF INFANT FEEDING AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2013

Local Health District	Infant feeding									
	Full breast-feeding		Any breast-feeding		Infant formula only		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	6230	89.7	239	3.4	328	4.7	148	2.1	6945	100.0
South Western Sydney	7626	71.9	1156	10.9	1708	16.1	114	1.1	10604	100.0
South Eastern Sydney	6507	82.8	880	11.2	402	5.1	70	0.9	7859	100.0
Illawarra Shoalhaven	2615	79.3	138	4.2	513	15.6	31	0.9	3297	100.0
Western Sydney	7508	77.4	1086	11.2	924	9.5	176	1.8	9694	100.0
Nepean Blue Mountains	3574	71.4	401	8.0	967	19.3	61	1.2	5003	100.0
Northern Sydney	4672	88.5	404	7.7	158	3.0	45	0.9	5279	100.0
Central Coast	2340	81.2	153	5.3	351	12.2	37	1.3	2881	100.0
Hunter New England	7304	78.4	505	5.4	1402	15.0	106	1.1	9317	100.0
Northern NSW	3147	88.9	115	3.2	241	6.8	38	1.1	3541	100.0
Mid North Coast	1840	83.2	87	3.9	244	11.0	40	1.8	2211	100.0
Southern NSW	1198	86.2	45	3.2	135	9.7	12	0.9	1390	100.0
Murrumbidgee	1389	75.0	82	4.4	361	19.5	20	1.1	1852	100.0
Western NSW	2686	77.6	152	4.4	565	16.3	58	1.7	3461	100.0
Far West	163	73.1	12	5.4	45	20.2	3	1.3	223	100.0
Private Hospitals	18034	79.3	2999	13.2	1591	7.0	114	0.5	22738	100.0
TOTAL*	76912	79.8	8457	8.8	9935	10.3	1084	1.1	96388	100.0

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

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

TABLE 52: LIVE BIRTHS BY TYPE OF INFANT FEEDING, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2013#

Maternity service level-hospital	Infant feeding									
	Full breast-feeding		Any breast-feeding		Infant formula only		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Level 6										
Royal Prince Alfred	4632	89.9	168	3.3	220	4.3	135	2.6	5155	100.0
Royal North Shore	2193	87.3	218	8.7	88	3.5	13	0.5	2512	100.0
Royal Hospital for Women	3422	84.6	437	10.8	150	3.7	34	0.8	4043	100.0
Liverpool	2179	68.3	410	12.8	532	16.7	71	2.2	3192	100.0
Nepean	2532	67.7	349	9.3	814	21.8	46	1.2	3741	100.0
Westmead	4089	76.8	631	11.8	478	9.0	129	2.4	5327	100.0
John Hunter	3127	76.7	263	6.5	656	16.1	31	0.8	4077	100.0
TOTAL	22174	79.1	2476	8.8	2938	10.5	459	1.6	28047	100.0
Level 5										
Gosford	2184	80.5	152	5.6	343	12.6	34	1.3	2713	100.0
St. George	1901	76.4	383	15.4	176	7.1	27	1.1	2487	100.0
Blacktown	2405	78.7	247	8.1	372	12.2	33	1.1	3057	100.0
Coffs Harbour	908	83.6	50	4.6	104	9.6	24	2.2	1086	100.0
Lismore Base	1105	88.9	49	3.9	76	6.1	13	1.0	1243	100.0
Tweed Heads	1367	90.0	51	3.4	90	5.9	11	0.7	1519	100.0
Port Macquarie Base	676	83.0	32	3.9	97	11.9	9	1.1	814	100.0
Dubbo Base	862	71.5	41	3.4	279	23.2	23	1.9	1205	100.0
Wollongong	1779	76.7	97	4.2	425	18.3	19	0.8	2320	100.0
Maitland	1271	76.0	93	5.6	289	17.3	19	1.1	1672	100.0
Wagga Wagga Base	569	73.2	32	4.1	167	21.5	9	1.2	777	100.0
TOTAL	15027	79.5	1227	6.5	2418	12.8	221	1.2	18893	100.0
Level 4										
Canterbury	1598	89.3	71	4.0	108	6.0	13	0.7	1790	100.0
Hornsby	973	87.0	96	8.6	35	3.1	14	1.3	1118	100.0
Manly	891	91.2	51	5.2	22	2.3	13	1.3	977	100.0
Mona Vale	489	89.9	39	7.2	13	2.4	3	0.6	544	100.0
Sutherland	1183	89.1	60	4.5	76	5.7	9	0.7	1328	100.0
Auburn	1014	77.4	208	15.9	74	5.6	14	1.1	1310	100.0
Fairfield	1160	62.7	399	21.6	276	14.9	16	0.9	1851	100.0
Campbelltown	2134	72.7	189	6.4	599	20.4	14	0.5	2936	100.0
Bankstown-Lidcombe	1732	80.3	149	6.9	265	12.3	10	0.5	2156	100.0
Hawkesbury	670	83.1	31	3.8	97	12.0	8	1.0	806	100.0

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TABLE 52: (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	369	81.1	12	2.6	63	13.8	11	2.4	455	100.0
Tamworth Base	783	79.2	56	5.7	136	13.8	14	1.4	989	100.0
Manning Base	540	80.4	24	3.6	93	13.8	15	2.2	672	100.0
Orange Base	823	80.1	74	7.2	115	11.2	16	1.6	1028	100.0
Goulburn Base	237	80.1	9	3.0	42	14.2	8	2.7	296	100.0
Griffith Base	345	71.9	32	6.7	97	20.2	6	1.3	480	100.0
TOTAL	14941	79.7	1500	8.0	2111	11.3	184	1.0	18736	100.0
Level 3										
Blue Mountains	196	87.5	9	4.0	15	6.7	4	1.8	224	100.0
Kempsey	201	80.1	4	1.6	39	15.5	7	2.8	251	100.0
Armidale	383	85.7	18	4.0	38	8.5	8	1.8	447	100.0
Inverell	208	71.0	21	7.2	63	21.5	1	0.3	293	100.0
Mudgee	205	83.3	3	1.2	34	13.8	4	1.6	246	100.0
Bathurst Base	428	83.4	16	3.1	61	11.9	8	1.6	513	100.0
Lithgow	176	75.9	12	5.2	41	17.7	3	1.3	232	100.0
Bega	179	83.6	9	4.2	24	11.2	2	0.9	214	100.0
Moruya	251	84.8	9	3.0	34	11.5	2	0.7	296	100.0
Queanbeyan	396	92.1	12	2.8	22	5.1	0	0.0	430	100.0
Bowral	421	89.8	9	1.9	36	7.7	3	0.6	469	100.0
Shoalhaven	748	84.9	40	4.5	82	9.3	11	1.2	881	100.0
Broken Hill Base	163	73.1	12	5.4	45	20.2	3	1.3	223	100.0
Other hospitals	1762	81.9	66	3.1	301	14.0	23	1.1	2152	100.0
TOTAL	5717	83.2	240	3.5	835	12.2	79	1.1	6871	100.0
Level 2										
TOTAL	931	93.7	12	1.2	40	4.0	11	1.1	994	100.0
Private										
Mater, North Sydney	1941	78.4	423	17.1	109	4.4	3	0.1	2476	100.0
North Shore Private	1751	75.2	453	19.5	119	5.1	5	0.2	2328	100.0
Sydney Adventist	1869	97.0	0	0.0	55	2.9	3	0.2	1927	100.0
North Gosford Private	692	86.9	62	7.8	40	5.0	2	0.3	796	100.0
Hurstville Community	520	68.8	162	21.4	73	9.7	1	0.1	756	100.0
Kareena Private	650	83.2	53	6.8	77	9.9	1	0.1	781	100.0
St. George Private	1101	63.1	493	28.3	140	8.0	11	0.6	1745	100.0
Prince of Wales Private	2234	85.9	278	10.7	87	3.3	2	0.1	2601	100.0
Norwest Private	1626	79.0	233	11.3	191	9.3	8	0.4	2058	100.0
Sydney Southwest Private	602	71.2	102	12.1	142	16.8	0	0.0	846	100.0
Nepean Private	635	77.5	102	12.5	82	10.0	0	0.0	819	100.0
Westmead Private	1542	68.6	502	22.3	193	8.6	10	0.4	2247	100.0
Figtree Private	746	79.4	71	7.6	122	13.0	1	0.1	940	100.0
Newcastle Private	1666	87.4	63	3.3	113	5.9	65	3.4	1907	100.0
Calvary, Wagga Wagga	424	90.2	1	0.2	43	9.1	2	0.4	470	100.0
Other hospitals	35	85.4	1	2.4	5	12.2	0	0.0	41	100.0
TOTAL	18034	79.3	2999	13.2	1591	7.0	114	0.5	22738	100.0
TOTAL NSW*	76912	79.8	8457	8.8	9935	10.3	1084	1.1	96388	100.0

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

Hospitals with more than 200 births in 2013 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 53 shows the discharge status of babies for local health districts, and Table 54 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2013.

TABLE 53: BABY DISCHARGE STATUS BY HOSPITAL AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2013

Local Health District	Baby discharge status													
	Discharged		Transferred		Stillborn		Died		Transferred and died		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	6761	96.5	165	2.4	59	0.8	19	0.3	0	0.0	0	0.0	7004	100.0
South Western Sydney	10227	95.8	347	3.3	66	0.6	29	0.3	1	0.0	0	0.0	10670	100.0
South Eastern Sydney	7660	96.8	173	2.2	54	0.7	26	0.3	0	0.0	1	0.0	7914	100.0
Illawarra Shoalhaven	3228	97.4	66	2.0	18	0.5	3	0.1	0	0.0	0	0.0	3315	100.0
Western Sydney	9294	95.2	367	3.8	70	0.7	33	0.3	0	0.0	0	0.0	9764	100.0
Nepean Blue Mountains	4796	95.2	182	3.6	35	0.7	25	0.5	0	0.0	0	0.0	5038	100.0
Northern Sydney	5091	95.8	178	3.3	37	0.7	10	0.2	0	0.0	0	0.0	5316	100.0
Central Coast	2826	97.5	52	1.8	18	0.6	3	0.1	0	0.0	0	0.0	2899	100.0
Hunter New England	8716	92.9	572	6.1	64	0.7	29	0.3	0	0.0	2	0.0	9383	100.0
Northern NSW	3344	93.9	188	5.3	19	0.5	9	0.3	0	0.0	1	0.0	3561	100.0
Mid North Coast	2084	93.7	120	5.4	11	0.5	7	0.3	0	0.0	2	0.1	2224	100.0
Southern NSW	1368	97.9	20	1.4	8	0.6	2	0.1	0	0.0	0	0.0	1398	100.0
Murrumbidgee	1746	93.5	105	5.6	16	0.9	1	0.1	0	0.0	0	0.0	1868	100.0
Western NSW	3119	89.5	336	9.6	25	0.7	6	0.2	0	0.0	0	0.0	3486	100.0
Far West	219	97.8	4	1.8	1	0.4	0	0.0	0	0.0	0	0.0	224	100.0
Private Hospitals	22573	99.0	147	0.6	61	0.3	17	0.1	1	0.0	3	0.0	22802	100.0
TOTAL*	93145	96.1	3022	3.1	562	0.6	219	0.2	2	0.0	21	0.0	96971	100.0

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

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

TABLE 54: BABY DISCHARGE STATUS BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2013*

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	4996	96.0	140	2.7	48	0.9	19	0.4	0	0.0	0	0.0	5203	100.0
Royal North Shore	2371	93.2	135	5.3	32	1.3	6	0.2	0	0.0	0	0.0	2544	100.0
Royal Hospital for Women	3905	95.7	117	2.9	37	0.9	21	0.5	0	0.0	0	0.0	4080	100.0
Liverpool	2911	90.2	258	8.0	37	1.1	22	0.7	1	0.0	0	0.0	3229	100.0
Nepean	3554	94.3	162	4.3	26	0.7	25	0.7	0	0.0	0	0.0	3767	100.0
Westmead	4977	92.6	326	6.1	49	0.9	24	0.4	0	0.0	0	0.0	5376	100.0
John Hunter	3837	93.0	217	5.3	47	1.1	23	0.6	0	0.0	0	0.0	4124	100.0
TOTAL	26551	93.7	1355	4.8	276	1.0	140	0.5	1	0.0	0	0.0	28323	100.0
Level 5														
Gosford	2667	97.7	43	1.6	18	0.7	3	0.1	0	0.0	0	0.0	2731	100.0
St. George	2438	97.6	45	1.8	11	0.4	4	0.2	0	0.0	1	0.0	2499	100.0
Blacktown	3021	98.4	30	1.0	14	0.5	6	0.2	0	0.0	0	0.0	3071	100.0
Coffs Harbour	1018	93.5	67	6.2	3	0.3	1	0.1	0	0.0	0	0.0	1089	100.0
Lismore Base	1227	97.8	13	1.0	11	0.9	3	0.2	0	0.0	0	0.0	1254	100.0
Tweed Heads	1364	89.4	151	9.9	6	0.4	4	0.3	0	0.0	0	0.0	1525	100.0
Port Macquarie Base	775	94.3	35	4.3	6	0.7	4	0.5	0	0.0	2	0.2	822	100.0
Dubbo Base	978	80.5	223	18.4	10	0.8	4	0.3	0	0.0	0	0.0	1215	100.0
Wollongong	2279	97.8	38	1.6	10	0.4	3	0.1	0	0.0	0	0.0	2330	100.0
Maitland	1463	87.1	209	12.4	8	0.5	0	0.0	0	0.0	0	0.0	1680	100.0
Wagga Wagga Base	713	90.7	63	8.0	9	1.1	1	0.1	0	0.0	0	0.0	786	100.0
TOTAL	17943	94.4	917	4.8	106	0.6	33	0.2	0	0.0	3	0.0	19002	100.0
Level 4														
Canterbury	1765	98.0	25	1.4	11	0.6	0	0.0	0	0.0	0	0.0	1801	100.0
Hornsby	1100	98.3	15	1.3	1	0.1	3	0.3	0	0.0	0	0.0	1119	100.0
Manly	963	98.4	13	1.3	2	0.2	1	0.1	0	0.0	0	0.0	979	100.0
Mona Vale	538	98.5	6	1.1	2	0.4	0	0.0	0	0.0	0	0.0	546	100.0
Sutherland	1316	98.7	11	0.8	6	0.4	1	0.1	0	0.0	0	0.0	1334	100.0
Auburn	1296	98.4	11	0.8	7	0.5	3	0.2	0	0.0	0	0.0	1317	100.0
Fairfield	1830	98.6	21	1.1	5	0.3	0	0.0	0	0.0	0	0.0	1856	100.0
Campbelltown	2886	97.8	46	1.6	14	0.5	4	0.1	0	0.0	0	0.0	2950	100.0
Bankstown-Lidcombe	2141	98.8	14	0.6	10	0.5	1	0.0	0	0.0	0	0.0	2166	100.0
Hawkesbury	798	98.2	8	1.0	7	0.9	0	0.0	0	0.0	0	0.0	813	100.0

(Continued on next page)

TABLE 54: (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	444	97.2	9	2.0	2	0.4	2	0.4	0	0.0	0	0.0	457	100.0
Tamworth Base	933	93.9	54	5.4	5	0.5	2	0.2	0	0.0	0	0.0	994	100.0
Manning Base	655	97.2	15	2.2	2	0.3	2	0.3	0	0.0	0	0.0	674	100.0
Orange Base	955	92.4	73	7.1	6	0.6	0	0.0	0	0.0	0	0.0	1034	100.0
Goulburn Base	288	96.3	6	2.0	3	1.0	2	0.7	0	0.0	0	0.0	299	100.0
Griffith Base	450	92.8	30	6.2	5	1.0	0	0.0	0	0.0	0	0.0	485	100.0
TOTAL	18358	97.5	357	1.9	88	0.5	21	0.1	0	0.0	0	0.0	18824	100.0
Level 3														
Blue Mountains	218	96.5	6	2.7	2	0.9	0	0.0	0	0.0	0	0.0	226	100.0
Kempsey	234	92.5	15	5.9	2	0.8	2	0.8	0	0.0	0	0.0	253	100.0
Armidale	427	95.1	18	4.0	2	0.4	2	0.4	0	0.0	0	0.0	449	100.0
Inverell	292	99.7	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	293	100.0
Mudgee	237	96.3	9	3.7	0	0.0	0	0.0	0	0.0	0	0.0	246	100.0
Bathurst Base	504	97.9	7	1.4	2	0.4	2	0.4	0	0.0	0	0.0	515	100.0
Lithgow	226	97.4	6	2.6	0	0.0	0	0.0	0	0.0	0	0.0	232	100.0
Bega	210	97.7	4	1.9	1	0.5	0	0.0	0	0.0	0	0.0	215	100.0
Moruya	291	97.0	5	1.7	4	1.3	0	0.0	0	0.0	0	0.0	300	100.0
Queanbeyan	427	99.3	3	0.7	0	0.0	0	0.0	0	0.0	0	0.0	430	100.0
Bowral	459	97.9	8	1.7	0	0.0	2	0.4	0	0.0	0	0.0	469	100.0
Shoalhaven	861	96.9	20	2.2	8	0.9	0	0.0	0	0.0	0	0.0	889	100.0
Broken Hill Base	219	97.8	4	1.8	1	0.4	0	0.0	0	0.0	0	0.0	224	100.0
Other hospitals	2082	96.5	70	3.2	5	0.2	0	0.0	0	0.0	1	0.0	2158	100.0
TOTAL	6687	96.9	176	2.6	27	0.4	8	0.1	0	0.0	1	0.0	6899	100.0
Level 2														
TOTAL	935	93.9	59	5.9	0	0.0	0	0.0	0	0.0	2	0.2	996	100.0
Private														
Mater, North Sydney	2465	99.3	11	0.4	6	0.2	0	0.0	0	0.0	0	0.0	2482	100.0
North Shore Private	2315	98.9	12	0.5	12	0.5	1	0.0	0	0.0	0	0.0	2340	100.0
Sydney Adventist	1924	99.6	2	0.1	5	0.3	1	0.1	0	0.0	0	0.0	1932	100.0
North Gosford Private	791	99.2	4	0.5	1	0.1	1	0.1	0	0.0	0	0.0	797	100.0
Hurstville Community	753	99.5	2	0.3	1	0.1	1	0.1	0	0.0	0	0.0	757	100.0
Kareena Private	777	99.1	4	0.5	3	0.4	0	0.0	0	0.0	0	0.0	784	100.0
St. George Private	1733	99.0	10	0.6	5	0.3	2	0.1	0	0.0	0	0.0	1750	100.0
Prince of Wales Private	2590	99.4	8	0.3	5	0.2	2	0.1	1	0.0	0	0.0	2606	100.0
Norwest Private	2038	98.8	15	0.7	4	0.2	5	0.2	0	0.0	0	0.0	2062	100.0
Sydney Southwest Private	843	99.5	3	0.4	1	0.1	0	0.0	0	0.0	0	0.0	847	100.0
Nepean Private	810	98.2	9	1.1	6	0.7	0	0.0	0	0.0	0	0.0	825	100.0
Westmead Private	2231	99.1	14	0.6	4	0.2	2	0.1	0	0.0	0	0.0	2251	100.0
Figtree Private	933	98.9	7	0.7	3	0.3	0	0.0	0	0.0	0	0.0	943	100.0
Newcastle Private	1863	97.3	44	2.3	5	0.3	0	0.0	0	0.0	3	0.2	1915	100.0
Calvary, Wagga Wagga	468	99.6	0	0.0	0	0.0	2	0.4	0	0.0	0	0.0	470	100.0
Other hospitals	39	95.1	2	4.9	0	0.0	0	0.0	0	0.0	0	0.0	41	100.0
TOTAL	22573	99.0	147	0.6	61	0.3	17	0.1	1	0.0	3	0.0	22802	100.0
TOTAL NSW*	93145	96.1	3022	3.1	562	0.6	219	0.2	2	0.0	21	0.0	96971	100.0

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

Hospitals with more than 200 births in 2013 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 55 shows the mother's postnatal length of stay in the hospital of birth for hospitals where at least 200 mothers gave birth in 2013.

TABLE 55: AVERAGE MATERNAL POSTNATAL LENGTH OF STAY IN HOSPITAL OF BIRTH, NSW 2009–2013^a

Local Health District–Hospital	Average postnatal length of stay (days)				
	2009	2010	2011	2012	2013
Sydney					
Canterbury	2.8	2.9	2.7	2.8	2.6
Royal Prince Alfred	3.3	3.3	3.3	3.2	3.1
TOTAL	3.2	3.2	3.2	3.1	3.0
South Western Sydney					
Fairfield	2.5	2.2	2.3	2.3	2.3
Liverpool	2.9	2.8	2.8	2.9	2.9
Campbelltown	2.5	2.5	2.4	2.3	2.3
Bankstown–Lidcombe	2.5	2.5	2.4	2.4	2.6
Bowral	2.8	2.6	2.7	2.7	2.8
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	2.6	2.5	2.5	2.5	2.6
South Eastern Sydney					
St. George	2.6	2.9	2.8	2.8	2.8
Sutherland	2.7	2.8	2.6	2.7	2.6
Royal Hospital for Women	3.6	3.3	3.3	3.1	3.0
Other hospitals	0.0	0.0	0.0	0.0	4.0
TOTAL	3.2	3.1	3.0	2.9	2.9
Illawarra Shoalhaven					
Shoalhaven	2.5	2.5	2.7	2.6	2.2
Wollongong	2.6	2.6	2.5	2.5	2.5
Other hospitals	3.0	2.3	2.3	2.3	2.2
TOTAL	2.6	2.6	2.6	2.5	2.4
Western Sydney					
Auburn	2.0	1.9	1.8	1.8	1.9
Blacktown	2.7	2.7	2.6	2.4	2.2
Westmead	2.4	2.2	2.3	2.2	2.1
TOTAL	2.4	2.4	2.3	2.2	2.1
Nepean Blue Mountains					
Blue Mountains	3.4	3.2	2.7	2.6	2.2
Nepean	2.4	2.4	2.2	2.0	2.0
Hawkesbury	3.1	3.2	3.0	3.1	3.0
Lithgow	3.2	3.0	3.4	2.7	3.0
TOTAL	2.6	2.6	2.4	2.2	2.2
Northern Sydney					
Hornsby	2.4	2.3	2.3	2.2	2.0
Manly	2.7	2.5	2.3	2.3	2.4
Mona Vale	2.5	0.0	0.0	2.4	2.5
Royal North Shore	2.8	2.8	2.7	2.7	2.8
Other hospitals	0.4	0.3	0.1	0.1	0.1
TOTAL	2.6	2.5	2.5	2.4	2.5
Central Coast					
Gosford	2.2	2.2	2.1	2.1	2.2
Other hospitals	1.1	0.5	0.1	0.9	0.4
TOTAL	2.1	2.1	2.0	2.1	2.1
Hunter New England					
Armidale	3.0	3.1	3.2	3.0	2.4
Inverell	3.1	3.0	3.1	2.9	2.8
Tamworth Base	3.0	2.7	2.9	2.7	2.7
Manning Base	3.0	2.9	2.9	3.0	2.7
Maitland	2.5	2.3	2.4	2.4	2.1
John Hunter	2.8	2.7	2.7	2.6	2.6
Other hospitals	2.4	2.5	2.5	2.4	2.3
TOTAL	2.8	2.6	2.7	2.6	2.5
Northern NSW					
Grafton Base	3.5	3.3	3.2	3.4	3.1
Lismore Base	3.2	3.0	3.0	2.8	2.8
Tweed Heads	2.6	2.5	2.3	2.4	2.6
Other hospitals	2.7	2.7	2.2	2.1	2.8
TOTAL	2.9	2.8	2.6	2.6	2.7
Mid North Coast					
Coffs Harbour	3.6	3.2	3.2	3.1	2.8
Kempsey	2.7	2.9	2.8	3.0	2.6
Port Macquarie Base	3.3	3.2	3.6	3.5	2.8
Other hospitals	2.4	2.4	2.6	2.8	2.7
TOTAL	3.4	3.2	3.2	3.2	2.8
Southern NSW					
Bega	2.1	2.4	2.3	2.4	2.1
Goulburn Base	3.3	3.3	3.3	3.0	2.8
Moruya	2.7	2.4	2.5	2.4	2.4
Queanbeyan	3.7	3.2	2.7	2.8	2.7
Other hospitals	3.3	3.7	3.4	3.3	3.3
TOTAL	3.0	2.9	2.8	2.7	2.6
Murrumbidgee					
Griffith Base	2.9	3.0	2.9	2.9	2.8
Wagga Wagga Base	2.4	2.5	2.3	2.6	2.6
Other hospitals	3.4	3.1	3.1	3.1	3.0
TOTAL	2.9	2.9	2.8	2.8	2.8
Western NSW					
Dubbo Base	2.5	2.5	2.4	2.5	2.5
Mudgee	2.5	2.5	2.8	2.8	3.0
Bathurst Base	2.7	2.7	2.7	2.9	2.6
Orange Base	2.8	2.8	2.5	2.6	2.5
Other hospitals	2.9	2.9	2.7	2.8	2.9
TOTAL	2.7	2.6	2.5	2.7	2.6
Far West					
Broken Hill Base	3.4	3.3	2.9	3.0	2.5
TOTAL	3.4	3.3	2.9	3.0	2.5
Private Hospitals					
Mater, North Sydney	4.4	4.4	4.4	4.4	4.6
North Shore Private	4.4	4.4	4.5	4.5	4.5
Sydney Adventist	4.6	4.6	4.7	4.7	4.6
North Gosford Private	4.6	4.5	5.0	4.4	4.8
Hurstville Community	4.5	4.4	4.1	4.4	4.3
Kareena Private	4.5	4.4	4.4	4.5	4.3
St. George Private	4.2	4.3	4.3	4.4	4.4
Prince of Wales Private	4.5	4.6	4.4	4.5	4.6
Norwest Private	4.3	4.5	4.3	4.3	4.4
Sydney Southwest Private	4.3	4.5	4.4	4.4	4.4
Nepean Private	4.8	4.9	4.7	4.6	4.5
Westmead Private	3.9	4.2	4.3	4.3	4.3
Figtree Private	5.2	5.2	5.2	5.3	5.2
Newcastle Private	3.8	4.0	4.1	4.1	4.3
Calvary, Wagga Wagga	4.5	4.4	4.1	5.0	4.5
Other hospitals	4.7	4.7	4.5	4.4	4.5
TOTAL	4.4	4.4	4.4	4.5	4.5
TOTAL NSW*	3.2	3.2	3.1	3.1	3.0

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

^a Hospitals with more than 200 births in 2013 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 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 greater than 20 weeks gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 41⁰ weeks gestation.

Table 56 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 56: 1.1 SELECTED PRIMIPARA WHO HAVE A SPONTANEOUS VAGINAL BIRTH BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013^a

Local Health District–Hospital	2009 %	2010 %	2011 %	2012 %	2013 %
Sydney					
Canterbury	55.2	51.3	55.2	52.6	54.4
Royal Prince Alfred	51.8	50.8	51.3	54.1	52.9
Total	52.6	50.9	52.1	53.8	53.3
South Western Sydney					
Fairfield	71.2	76.0	77.5	79.2	79.9
Liverpool	67.6	65.0	66.1	62.7	63.2
Campbelltown	64.8	63.3	65.8	65.4	65.7
Bankstown-Lidcombe	62.2	60.1	66.8	61.9	64.0
Bowral	52.9	53.4	55.0	57.7	57.1
Other hospitals	100.0	0.0	0.0	0.0	0.0
TOTAL	65.7	64.9	67.8	66.3	66.7
South Eastern Sydney					
St. George	55.2	56.5	52.7	53.0	52.6
Sutherland	57.4	65.8	64.4	58.8	57.9
Royal Hospital for Women	51.4	50.6	47.0	53.0	50.5
TOTAL	53.7	55.2	51.7	53.9	52.5
Illawarra Shoalhaven					
Shoalhaven	57.1	57.1	46.8	57.7	52.6
Wollongong	59.0	59.5	59.7	61.9	52.0
Other hospitals	41.7	51.9	53.3	50.0	50.0
TOTAL	58.0	58.6	56.3	60.3	52.1
Western Sydney					
Auburn	63.7	59.4	64.7	71.2	64.2
Blacktown	50.7	47.4	43.8	48.2	48.3
Westmead	50.6	47.7	52.3	51.8	50.0
TOTAL	52.4	49.2	52.0	53.8	51.6
Nepean Blue Mountains					
Blue Mountains	51.1	52.0	45.3	73.7	46.7
Nepean	49.0	50.5	44.2	45.3	44.9
Hawkesbury	44.8	45.6	45.7	43.5	43.4
Lithgow	64.5	50.0	52.2	65.9	61.0
TOTAL	48.6	49.7	44.8	47.1	45.5
Northern Sydney					
Hornsby	53.6	54.9	52.7	58.9	61.5
Manly	49.6	52.6	52.0	51.9	53.2
Mona Vale	48.3	0.0	0.0	43.4	43.4
Royal North Shore	46.7	46.6	46.1	50.7	45.7
Other hospitals	100.0	100.0	100.0	100.0	100.0
TOTAL	50.2	51.2	50.1	53.7	50.9
Central Coast					
Gosford	43.6	42.1	37.5	44.6	44.0
Other hospitals	100.0	100.0	100.0	100.0	100.0
TOTAL	46.9	44.3	40.2	47.4	47.6
Hunter New England					
Armidale	73.5	58.0	49.1	57.4	62.6
Inverell	42.3	51.7	36.5	46.7	35.6
Tamworth Base	53.7	53.1	57.3	56.9	50.8
Manning Base	57.3	55.4	53.6	56.4	56.6
Maitland	50.2	48.9	45.5	56.2	56.3
John Hunter	59.5	52.6	56.9	51.9	54.2
Other hospitals	71.3	69.8	64.1	67.9	66.0
TOTAL	58.6	54.5	54.4	55.8	55.6
Northern NSW					
Grafton Base	57.6	57.6	67.8	63.0	52.4
Lismore Base	59.2	64.0	64.2	63.3	56.0
Tweed Heads	67.8	62.0	61.9	65.1	61.6
Other hospitals	90.6	97.1	93.1	90.1	96.5
TOTAL	65.8	64.7	65.7	66.9	60.8
Mid North Coast					
Coffs Harbour	51.1	60.0	56.1	51.9	54.3
Kempsey	71.2	57.7	72.1	63.0	70.5
Port Macquarie Base	58.4	52.0	56.8	55.9	57.0
Other hospitals	75.0	100.0	90.0	91.7	66.7
TOTAL	56.0	57.1	58.6	55.1	56.9
Southern NSW					
Bega	68.4	60.0	56.4	53.8	49.2
Goulburn Base	38.0	55.3	44.6	45.6	48.8
Moruya	54.5	52.3	52.9	56.4	65.1
Queanbeyan	60.0	62.9	61.2	55.0	52.0
Other hospitals	75.6	73.0	67.5	56.8	57.5
TOTAL	57.6	59.5	55.8	53.5	53.5

(Continued on next page)

Reference

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

TABLE 56: (Continued)

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Murrumbidgee					
Griffith Base	59.4	50.4	51.8	43.0	52.1
Wagga Wagga Base	51.1	50.9	59.1	48.3	53.0
Other hospitals	51.5	57.1	49.1	66.1	65.2
TOTAL	53.2	53.0	53.3	51.0	56.4
Western NSW					
Dubbo Base	62.2	64.7	67.6	62.2	51.7
Mudgee	64.3	49.2	67.9	73.1	73.2
Bathurst Base	59.4	61.5	53.2	57.7	57.0
Orange Base	46.0	54.6	54.5	52.6	46.7
Other hospitals	60.0	67.3	61.1	57.0	58.3
TOTAL	57.6	60.7	60.7	58.8	53.7
Far West					
Broken Hill Base	52.9	50.9	58.0	56.0	46.5
TOTAL	52.9	50.9	58.0	56.0	46.5
Private Hospitals					
Mater, North Sydney	30.1	31.7	28.5	33.4	35.4
North Shore Private	36.1	36.3	31.2	31.7	36.0
Sydney Adventist	47.2	46.9	52.4	51.2	51.9

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
North Gosford Private	29.8	29.0	30.5	36.7	35.3
Hurstville Community	39.9	37.4	36.2	43.5	38.3
Kareena Private	35.3	33.3	33.9	31.0	34.9
St. George Private	25.6	28.5	33.0	31.1	33.0
Prince of Wales Private	35.5	36.6	35.9	30.4	28.6
Norwest Private	40.1	40.5	40.0	43.3	40.4
Sydney Southwest Private	48.9	43.9	44.2	42.8	47.7
Nepean Private	48.0	51.3	44.8	41.7	31.6
Westmead Private	39.4	33.3	33.8	32.3	36.4
Figtree Private	38.3	36.9	33.8	33.0	35.1
Newcastle Private	45.8	39.2	41.4	41.3	42.9
Calvary, Wagga Wagga	39.2	36.5	45.3	35.5	23.5
Other hospitals	34.7	44.2	48.1	37.0	40.0
TOTAL	38.1	37.1	37.1	36.9	37.4
TOTAL NSW*	51.4	50.6	50.6	51.4	50.6

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

Hospitals with more than 200 births in 2013 are identified individually

* Total NSW includes births at home assisted by independent midwives

Indicator 1.2

Definition: The 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 greater than 20 weeks gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 41⁰ weeks gestation.

Table 57 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 57: 1.2 SELECTED PRIMIPARA WHO UNDERGO INDUCTION OF LABOUR BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013*

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Sydney					
Canterbury	28.2	25.8	25.1	37.8	39.7
Royal Prince Alfred	27.6	28.6	28.9	34.3	34.6
TOTAL	27.8	28.0	28.2	35.1	35.7
South Western Sydney					
Fairfield	23.1	26.1	25.6	24.6	25.9
Liverpool	28.9	27.6	28.0	30.8	33.0
Campbelltown	32.2	33.8	32.5	34.5	40.9
Bankstown-Lidcombe	33.8	30.0	33.4	32.0	34.0
Bowral	21.4	25.3	24.0	30.1	38.8
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	29.4	29.4	29.9	30.9	34.6
South Eastern Sydney					
St. George	35.9	34.9	40.4	40.5	44.9
Sutherland	37.7	32.1	29.0	35.1	36.5
Royal Hospital for Women	32.8	34.7	34.8	34.5	41.9
TOTAL	34.7	34.3	35.6	36.7	41.9
Illawarra Shoalhaven					
Shoalhaven	30.7	36.6	45.9	34.6	47.0
Wollongong	43.7	39.3	41.1	36.3	38.2
Other hospitals	37.5	33.3	26.7	21.9	18.8
TOTAL	40.5	38.4	41.8	35.3	39.7
Western Sydney					
Auburn	30.3	29.7	31.4	31.8	34.1
Blacktown	43.9	43.9	43.7	45.0	46.0
Westmead	42.7	45.9	40.8	40.0	45.2
TOTAL	41.4	43.0	40.0	40.1	43.8
Nepean Blue Mountains					
Blue Mountains	51.1	22.0	17.0	26.3	35.0
Nepean	40.7	38.8	40.0	43.6	45.5
Hawkesbury	42.3	34.4	42.9	32.5	47.3
Lithgow	35.5	39.5	41.3	34.1	59.3
TOTAL	41.3	37.3	39.7	40.5	46.0
Northern Sydney					
Hornsby	34.5	38.9	35.5	34.2	31.6
Manly	31.9	35.2	39.3	43.0	43.6
Mona Vale	42.7	0.0	0.0	34.0	37.4
Royal North Shore	37.1	37.2	36.4	41.5	45.2
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	34.8	36.3	36.3	39.1	40.5
Central Coast					
Gosford	39.8	40.5	46.0	44.2	45.5
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	37.5	39.0	44.1	41.9	42.5
Hunter New England					
Armidale	33.7	41.0	37.7	37.5	39.6
Inverell	51.9	37.9	40.4	53.3	28.8
Tamworth Base	48.3	39.6	44.7	44.6	48.8
Manning Base	37.6	34.4	44.0	34.6	42.8
Maitland	38.5	41.9	45.9	42.1	48.0
John Hunter	34.2	34.4	39.3	43.0	43.1
Other hospitals	27.5	25.2	24.8	21.9	25.2
TOTAL	36.2	35.6	39.7	39.4	42.0
Northern NSW					
Grafton Base	31.4	35.4	40.0	32.0	41.9
Lismore Base	25.6	27.6	30.7	31.0	34.0
Tweed Heads	30.6	26.6	33.0	26.2	33.4
Other hospitals	4.7	0.0	0.0	0.0	1.8
TOTAL	26.8	25.9	30.6	25.5	32.7
Mid North Coast					
Coffs Harbour	23.8	29.1	25.7	31.2	37.4
Kempsey	23.7	29.6	34.4	17.4	36.4
Port Macquarie Base	28.1	24.0	34.7	37.7	39.6
Other hospitals	0.0	0.0	0.0	0.0	16.7
TOTAL	25.1	27.1	29.5	31.8	38.0
Southern NSW					
Bega	29.8	27.1	32.1	30.8	23.0
Goulburn Base	15.5	9.2	18.1	27.8	30.5
Moruya	24.7	25.6	19.1	29.5	30.2
Queanbeyan	15.6	15.5	19.8	18.1	23.7
Other hospitals	13.3	27.0	25.0	22.7	27.5
TOTAL	19.7	19.7	22.3	24.4	26.4
Murrumbidgee					
Griffith Base	24.8	36.2	29.5	35.2	30.7
Wagga Wagga Base	35.1	37.1	46.1	40.5	43.5
Other hospitals	30.7	28.0	21.1	26.8	30.3
TOTAL	31.1	33.5	32.0	35.5	35.5
Western NSW					
Dubbo Base	29.7	39.2	43.5	48.1	43.8
Mudgee	37.5	35.4	50.9	35.9	40.8
Bathurst Base	16.9	27.7	29.0	32.4	30.3
Orange Base	38.6	41.3	35.3	41.5	48.3
Other hospitals	26.0	31.8	26.9	27.3	23.3
TOTAL	29.3	36.7	37.1	39.2	40.2
Far West					
Broken Hill Base	19.1	29.1	26.0	30.0	25.6
TOTAL	19.1	29.1	26.0	30.0	25.6
Private Hospitals					
Mater, North Sydney	28.2	24.5	26.2	26.4	29.1
North Shore Private	30.6	22.8	24.1	26.2	27.3
Sydney Adventist	33.9	32.2	28.8	27.3	31.3
North Gosford Private	30.3	37.9	43.2	44.5	45.4
Hurstville Community	30.5	32.9	37.2	26.5	41.1
Kareena Private	40.6	33.9	33.0	26.7	33.6
St. George Private	36.6	40.6	39.3	32.4	33.3
Prince of Wales Private	28.9	26.8	27.7	25.2	26.5
Norwest Private	45.5	50.8	44.7	46.3	49.8
Sydney Southwest Private	35.9	44.9	36.7	34.3	48.0
Nepean Private	40.6	38.2	48.8	47.4	45.3
Westmead Private	34.4	37.3	33.6	38.0	37.0
Figtree Private	52.3	53.1	47.5	47.6	47.9
Newcastle Private	30.3	32.6	36.1	37.3	39.4
Calvary, Wagga Wagga	26.7	35.1	32.0	50.4	47.0
Other hospitals	36.1	36.5	42.6	42.5	30.0
TOTAL	34.0	34.6	34.2	33.9	36.4
TOTAL NSW*	33.8	34.2	34.9	35.6	38.6

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

Hospitals with more than 200 births in 2013 are identified individually

* Total NSW includes births at home assisted by independent midwives

Indicator 1.3

Definition: The 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 greater than 20 weeks gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 41⁰ weeks gestation.

Table 58 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 58: 1.3 SELECTED PRIMIPARA WHO UNDERGO AN INSTRUMENTAL VAGINAL BIRTH BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013[#]

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Sydney					
Canterbury	24.0	22.5	24.5	19.1	19.9
Royal Prince Alfred	22.7	24.7	24.4	25.9	24.6
TOTAL	23.0	24.2	24.4	24.4	23.5
South Western Sydney					
Fairfield	16.6	10.8	12.1	8.8	7.6
Liverpool	16.7	19.0	17.3	t	19.1
Campbelltown	14.2	17.0	14.6	13.8	13.4
Bankstown-Lidcombe	21.3	23.6	16.1	18.8	14.9
Bowral	27.9	30.1	27.9	25.2	19.7
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	17.5	18.5	15.8	15.8	14.6
South Eastern Sydney					
St. George	24.4	25.2	28.0	26.8	24.7
Sutherland	25.8	15.9	21.3	24.9	23.2
Royal Hospital for Women	27.1	26.8	32.5	30.3	30.6
TOTAL	26.0	24.4	29.2	28.3	27.4
Illawarra Shoalhaven					
Shoalhaven	20.0	16.1	17.9	20.5	22.8
Wollongong	18.1	17.6	19.0	17.8	21.0
Other hospitals	37.5	29.6	33.3	25.0	25.0
TOTAL	19.1	17.6	19.2	18.8	21.6
Western Sydney					
Auburn	17.9	21.7	14.7	15.0	17.5
Blacktown	25.7	28.3	25.4	25.7	22.1
Westmead	24.8	28.5	24.1	23.0	26.9
TOTAL	24.1	27.5	22.9	22.5	24.1
Nepean Blue Mountains					
Blue Mountains	17.8	14.0	30.2	12.3	18.3
Nepean	21.9	24.1	23.2	19.9	22.4
Hawkesbury	22.6	17.7	13.0	19.0	19.0
Lithgow	9.7	10.5	8.7	12.2	6.8
TOTAL	21.5	22.1	21.0	19.1	20.8
Northern Sydney					
Hornsby	23.3	20.5	21.7	20.4	18.4
Manly	26.2	22.1	30.5	32.9	25.3
Mona Vale	28.1	0.0	0.0	26.4	32.3
Royal North Shore	23.3	25.7	23.6	22.3	26.0
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	23.7	23.0	24.4	23.9	24.6
Central Coast					
Gosford	22.6	27.3	28.2	28.4	30.8
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	21.3	26.3	27.0	27.0	28.8
Hunter New England					
Armidale	8.4	17.0	21.7	15.4	13.2
Inverell	25.0	15.5	30.8	18.3	11.9
Tamworth Base	32.0	21.3	25.6	17.8	25.6
Manning Base	20.4	22.9	23.2	24.0	26.4
Maitland	18.1	19.2	19.5	17.0	17.2
John Hunter	20.0	22.6	19.1	24.0	19.9
Other hospitals	12.0	15.8	15.3	14.7	16.7
TOTAL	19.5	20.6	20.0	20.3	19.6
Northern NSW					
Grafton Base	17.8	15.2	11.3	13.0	15.2
Lismore Base	15.8	15.7	14.2	17.3	23.6
Tweed Heads	13.4	19.9	17.3	20.9	18.4
Other hospitals	7.1	2.9	5.6	8.9	1.8
TOTAL	14.2	16.9	14.6	17.8	18.8
Mid North Coast					
Coffs Harbour	23.4	13.7	17.6	19.3	16.5
Kempsey	10.2	18.3	14.8	15.2	11.4
Port Macquarie Base	20.0	23.5	20.2	19.1	24.6
Other hospitals	25.0	0.0	10.0	8.3	33.3
TOTAL	20.8	17.7	18.1	18.7	19.6
Southern NSW					
Bega	8.8	21.4	19.2	17.3	24.6
Goulburn Base	32.4	22.4	30.1	38.0	28.0
Moruya	20.8	25.6	26.5	24.4	12.7
Queanbeyan	26.7	15.5	21.6	23.5	29.6
Other hospitals	11.1	5.4	10.0	13.6	10.0
TOTAL	21.5	19.2	22.6	24.6	23.9
Murrumbidgee					
Griffith Base	17.8	28.3	25.9	32.4	25.7
Wagga Wagga Base	20.7	17.4	15.6	17.6	20.8
Other hospitals	19.0	18.5	21.1	13.4	13.6
TOTAL	19.4	20.8	20.4	21.1	20.2
Western NSW					
Dubbo Base	17.8	16.3	13.3	9.1	21.7
Mudgee	16.1	16.9	7.5	14.1	11.3
Bathurst Base	13.8	15.4	22.6	15.5	12.7
Orange Base	23.8	19.3	24.1	26.1	23.4
Other hospitals	6.0	13.6	13.9	14.1	12.6
TOTAL	16.8	16.6	17.5	16.5	18.7
Far West					
Broken Hill Base	10.3	9.1	14.0	14.0	30.2
TOTAL	10.3	9.1	14.0	14.0	30.2
Private Hospitals					
Mater, North Sydney	30.9	30.2	29.4	25.9	24.7
North Shore Private	25.9	26.5	26.3	29.0	26.1
Sydney Adventist	25.2	21.3	17.1	15.1	16.2
North Gosford Private	24.1	31.3	33.1	18.8	25.2
Hurstville Community	24.0	29.4	29.3	21.9	28.0
Kareena Private	27.1	26.0	28.6	28.7	26.2
St. George Private	32.4	31.7	27.7	25.9	29.6
Prince of Wales Private	26.2	26.1	24.8	25.1	26.0
Norwest Private	29.4	34.7	35.3	29.9	31.2
Sydney Southwest Private	27.1	27.4	28.9	24.3	28.1
Nepean Private	22.1	17.2	22.6	19.8	25.9
Westmead Private	28.6	30.5	28.2	27.6	25.3
Figtree Private	27.7	33.4	29.8	35.0	31.1
Newcastle Private	25.9	28.8	29.3	26.1	29.0
Calvary, Wagga Wagga	33.5	37.8	28.0	24.8	17.4
Other hospitals	40.3	26.9	29.6	30.1	10.0
TOTAL	27.6	28.5	27.6	25.6	26.2
TOTAL NSW*	22.8	23.6	23.1	22.6	22.9

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

Hospitals with more than 200 births in 2013 are identified individually

* Total NSW includes births at home assisted by independent midwives

Indicator 1.4

Definition: The 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 greater than 20 weeks gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 41⁰ weeks gestation.

Table 59 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 59: 1.4 SELECTED PRIMIPARA UNDERGOING CAESAREAN SECTION BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013^a

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Sydney					
Canterbury	20.8	26.2	20.3	28.2	25.4
Royal Prince Alfred	25.4	24.5	24.2	20.0	22.5
TOTAL	24.4	24.9	23.5	21.8	23.1
South Western Sydney					
Fairfield	12.2	13.3	10.4	12.0	12.5
Liverpool	15.7	16.1	16.5	18.2	17.7
Campbelltown	21.0	19.7	19.5	20.8	20.9
Bankstown-Lidcombe	16.5	16.4	16.8	19.3	21.1
Bowral	19.3	16.4	17.1	17.1	23.1
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	16.8	16.6	16.3	17.9	18.7
South Eastern Sydney					
St. George	20.3	18.3	19.3	20.2	22.7
Sutherland	16.7	18.2	14.3	16.3	18.9
Royal Hospital for Women	21.5	22.7	20.5	16.7	18.9
TOTAL	20.2	20.4	19.1	17.8	20.1
Illawarra Shoalhaven					
Shoalhaven	22.9	26.8	35.3	21.8	24.7
Wollongong	23.0	22.9	21.3	20.4	27.0
Other hospitals	20.8	18.5	13.3	25.0	25.0
TOTAL	22.9	23.8	24.4	20.9	26.3
Western Sydney					
Auburn	18.4	19.0	20.7	13.8	18.3
Blacktown	23.7	24.3	30.8	26.1	29.7
Westmead	24.6	23.9	23.6	25.1	23.1
TOTAL	23.4	23.3	25.1	23.6	24.3
Nepean Blue Mountains					
Blue Mountains	31.1	34.0	24.5	14.0	35.0
Nepean	29.2	25.4	32.6	34.8	32.7
Hawkesbury	32.6	36.7	41.3	37.5	37.6
Lithgow	25.8	39.5	39.1	22.0	32.2
TOTAL	29.9	28.2	34.2	33.8	33.7
Northern Sydney					
Hornsby	23.1	24.5	25.6	20.7	20.1
Manly	24.3	25.4	17.5	15.1	21.5
Mona Vale	23.6	0.0	0.0	30.2	24.2
Royal North Shore	30.1	27.7	30.4	27.1	28.2
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	26.0	25.8	25.5	22.4	24.5
Central Coast					
Gosford	33.8	30.5	34.2	27.0	25.2
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	31.8	29.4	32.8	25.6	23.6
Hunter New England					
Armidale	18.1	25.0	29.2	27.2	24.2
Inverell	32.7	32.8	32.7	35.0	52.5
Tamworth Base	14.3	25.6	17.1	25.2	23.6
Manning Base	22.3	21.7	23.2	19.6	17.0
Maitland	31.6	31.9	35.1	26.8	26.5
John Hunter	20.5	24.8	24.0	24.1	25.9
Other hospitals	16.7	14.4	20.6	17.4	17.4
TOTAL	21.9	24.9	25.6	23.9	24.7

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Northern NSW					
Grafton Base	24.6	27.3	20.9	24.0	32.4
Lismore Base	25.0	20.3	21.7	19.4	20.4
Tweed Heads	18.7	18.0	20.9	14.0	20.0
Other hospitals	2.4	0.0	1.4	1.0	1.8
TOTAL	20.0	18.4	19.7	15.3	20.4
Mid North Coast					
Coffs Harbour	25.5	26.3	26.4	28.8	29.1
Kempsey	18.6	23.9	13.1	21.7	18.2
Port Macquarie Base	21.6	24.5	23.0	25.0	18.4
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	23.2	25.2	23.3	26.2	23.5
Southern NSW					
Bega	22.8	18.6	24.4	28.8	26.2
Goulburn Base	29.6	22.4	25.3	16.5	23.2
Moruya	24.7	22.1	20.6	19.2	22.2
Queanbeyan	13.3	20.7	14.7	21.5	18.4
Other hospitals	13.3	21.6	22.5	29.5	32.5
TOTAL	20.9	21.0	20.8	21.9	22.6
Murrumbidgee					
Griffith Base	22.8	21.3	22.3	24.6	22.1
Wagga Wagga Base	28.2	31.7	25.3	34.1	26.2
Other hospitals	29.4	24.4	29.7	19.6	21.2
TOTAL	27.4	26.2	26.3	27.7	23.4
Western NSW					
Dubbo Base	19.9	19.0	19.1	28.6	26.6
Mudgee	19.6	33.8	24.5	12.8	15.5
Bathurst Base	26.9	23.1	24.2	26.8	30.3
Orange Base	29.6	26.1	21.4	21.3	29.9
Other hospitals	34.0	19.1	25.0	28.9	29.1
TOTAL	25.4	22.7	21.7	24.7	27.6
Far West					
Broken Hill Base	36.8	40.0	28.0	30.0	23.3
TOTAL	36.8	40.0	28.0	30.0	23.3
Private Hospitals					
Mater, North Sydney	39.0	38.1	41.6	40.5	39.5
North Shore Private	37.9	37.3	42.4	39.2	37.9
Sydney Adventist	27.7	31.7	30.5	33.3	31.9
North Gosford Private	46.1	39.7	35.6	44.1	38.5
Hurstville Community	36.1	33.2	34.5	34.6	33.6
Kareena Private	37.2	39.5	37.4	39.9	38.4
St. George Private	42.0	39.8	39.3	43.0	37.4
Prince of Wales Private	38.3	36.5	39.0	44.2	45.2
Norwest Private	30.5	24.9	24.6	26.6	28.1
Sydney Southwest Private	24.0	28.7	26.9	32.6	23.8
Nepean Private	29.9	31.5	32.5	38.5	42.5
Westmead Private	32.1	36.1	37.9	40.1	38.3
Figtree Private	34.0	29.7	36.5	32.0	33.8
Newcastle Private	28.3	32.0	29.3	32.6	28.0
Calvary, Wagga Wagga	27.3	25.7	26.7	39.0	59.1
Other hospitals	25.0	28.8	22.2	32.9	50.0
TOTAL	34.2	34.2	35.2	37.4	36.3
TOTAL NSW*	25.7	25.7	26.1	25.9	26.5

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

Hospitals with more than 200 births in 2013 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 as a percentage of the total number of women delivering who have had a previous primary caesarean section and no intervening pregnancies greater than 20 weeks gestation.

Table 60 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 60: 2.1 VAGINAL DELIVERY AFTER PREVIOUS PRIMARY CAESAREAN SECTION BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013[#]

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Sydney					
Canterbury	15.6	17.6	13.4	7.4	8.2
Royal Prince Alfred	14.3	13.1	11.0	12.7	15.4
TOTAL	14.7	14.4	11.7	11.5	13.5
South Western Sydney					
Fairfield	2.8	2.2	4.0	1.6	1.9
Liverpool	17.1	26.2	21.5	24.4	13.8
Campbelltown	12.5	10.8	17.4	25.2	20.1
Bankstown-Lidcombe	12.2	14.7	19.4	18.5	15.6
Bowral	14.3	17.0	18.9	10.5	5.4
TOTAL	12.9	15.9	17.6	19.7	14.2
South Eastern Sydney					
St. George	19.3	18.3	24.9	18.3	14.6
Sutherland	1.3	3.9	0.0	0.0	0.0
Royal Hospital for Women	10.7	13.0	11.2	10.4	12.0
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	12.6	13.9	14.4	12.2	11.6
Illawarra Shoalhaven					
Shoalhaven	11.0	7.0	9.0	14.3	16.1
Wollongong	20.9	22.0	17.8	15.6	12.3
Other hospitals	50.0	10.0	10.0	0.0	0.0
TOTAL	18.0	16.9	15.0	14.9	13.5
Western Sydney					
Auburn	3.1	4.9	0.0	1.2	2.8
Blacktown	18.0	13.5	13.8	11.8	13.0
Westmead	17.4	17.5	17.4	14.3	15.9
TOTAL	16.6	15.0	14.6	12.4	14.0
Nepean Blue Mountains					
Blue Mountains	0.0	0.0	0.0	0.0	12.5
Nepean	17.8	16.6	12.8	10.3	12.0
Hawkesbury	14.6	10.9	12.4	12.0	10.7
Lithgow	13.3	4.5	0.0	0.0	6.3
TOTAL	16.0	14.4	12.0	10.0	11.6
Northern Sydney					
Hornsby	9.6	17.1	16.0	12.5	12.9
Manly	11.3	12.6	16.9	16.9	16.0
Mona Vale	16.0	0.0	0.0	7.7	5.6
Royal North Shore	9.4	11.6	8.3	12.5	10.0
TOTAL	10.3	13.4	12.2	13.4	11.3
Central Coast					
Gosford	7.0	10.1	12.6	9.0	14.2
TOTAL	7.0	10.1	12.6	9.0	14.2
Hunter New England					
Armida	15.4	7.9	13.0	7.8	18.2
Inverell	9.1	11.8	20.0	13.3	11.1
Tamworth Base	23.8	20.0	19.5	14.8	18.9
Manning Base	10.8	27.0	21.9	20.5	22.6
Maitland	19.4	14.9	14.4	13.6	17.1
John Hunter	23.7	23.0	18.9	18.1	19.4
Other hospitals	14.7	17.4	16.5	23.1	11.5
TOTAL	19.8	19.5	17.6	16.9	18.0

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Northern NSW					
Grafton Base	17.6	17.7	20.0	7.1	16.3
Lismore Base	23.0	22.1	23.2	18.9	16.2
Tweed Heads	16.6	19.8	26.0	16.4	21.1
Other hospitals	10.0	4.2	0.0	0.0	0.0
TOTAL	18.9	19.4	21.4	14.2	16.6
Mid North Coast					
Coffs Harbour	14.7	11.1	4.0	14.3	5.9
Kempsey	8.7	11.8	16.7	27.8	30.0
Port Macquarie Base	9.7	16.0	15.1	18.2	15.9
TOTAL	12.6	13.1	9.3	16.9	11.9
Southern NSW					
Bega	38.1	17.6	13.3	15.4	5.3
Goulburn Base	22.6	8.7	28.9	13.2	15.6
Moruya	7.4	16.0	6.1	20.0	10.3
Queanbeyan	14.3	12.0	12.1	6.7	3.2
Other hospitals	31.8	20.0	11.8	15.4	9.1
TOTAL	22.1	14.5	15.4	14.1	9.0
Murrumbidgee					
Griffith Base	20.0	13.9	15.2	9.8	20.5
Wagga Wagga Base	11.0	10.7	18.4	21.3	6.9
Other hospitals	9.0	8.0	12.7	1.6	7.5
TOTAL	12.4	10.3	15.7	11.9	10.1
Western NSW					
Dubbo Base	12.9	18.4	15.5	13.3	17.8
Mudgee	15.8	0.0	9.7	8.7	3.7
Bathurst Base	14.3	4.8	20.4	18.5	12.0
Orange Base	12.3	22.9	13.3	9.5	13.2
Other hospitals	17.2	27.9	12.8	27.5	8.5
TOTAL	13.8	17.2	14.6	14.3	12.8
Far West					
Broken Hill Base	13.0	12.1	15.4	8.3	16.0
TOTAL	13.0	12.1	15.4	8.3	16.0
Private Hospitals					
Mater, North Sydney	4.3	4.3	2.9	5.3	5.7
North Shore Private	6.2	4.7	4.9	5.9	5.1
Sydney Adventist	8.5	8.7	6.0	7.5	8.8
North Gosford Private	3.9	5.6	3.7	5.9	7.9
Hurstville Community	6.1	5.6	6.9	3.5	5.2
Kareena Private	3.0	4.2	2.1	3.2	7.9
St. George Private	4.0	4.7	5.5	3.9	4.7
Prince of Wales Private	3.4	3.5	3.7	1.9	2.8
Norwest Private	11.4	9.1	6.8	7.4	5.0
Sydney Southwest Private	3.3	3.6	0.0	1.8	0.8
Nepean Private	5.8	11.4	8.8	5.6	5.2
Westmead Private	8.3	7.6	6.5	6.0	5.0
Figtree Private	5.9	6.7	2.5	8.4	4.4
Newcastle Private	12.4	8.1	9.9	10.9	5.6
Calvary, Wagga Wagga	12.5	3.3	12.6	8.3	5.7
Other hospitals	8.5	2.9	1.8	0.0	0.0
TOTAL	6.5	5.9	5.2	5.6	5.2
TOTAL NSW*	12.0	12.1	11.5	11.0	10.8

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

[#] Hospitals with more than 200 births in 2013 are identified individually

* 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 or unsutured perineal tear 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 greater than 20 weeks gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 41⁰ weeks gestation.

Table 61 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 61: 3.1 SELECTED PRIMIPARA DELIVERING VAGINALLY WITH AN INTACT PERINEUM BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013[#]

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Sydney					
Canterbury	10.0	8.8	9.5	9.5	10.5
Royal Prince Alfred	10.6	12.8	12.6	12.0	9.6
TOTAL	10.4	12.0	11.9	11.5	9.8
South Western Sydney					
Fairfield	18.1	21.4	24.4	23.4	24.6
Liverpool	15.6	13.8	11.4	13.0	11.4
Campbelltown	28.6	19.6	20.9	22.0	23.6
Bankstown-Lidcombe	11.7	13.3	11.9	13.2	14.9
Bowral	30.1	30.3	21.5	20.6	28.3
Other hospitals	100.0	0.0	0.0	0.0	0.0
TOTAL	19.4	17.5	17.0	17.9	18.8
South Eastern Sydney					
St. George	18.2	12.7	13.5	12.2	9.9
Sutherland	19.8	25.6	16.7	21.7	13.0
Royal Hospital for Women	15.4	12.0	11.1	12.6	11.4
TOTAL	17.1	14.7	12.8	13.9	11.2
Illawarra Shoalhaven					
Shoalhaven	29.7	34.1	37.6	35.5	40.1
Wollongong	18.8	15.1	12.9	12.7	13.7
Other hospitals	21.1	63.6	42.3	20.8	25.0
TOTAL	21.4	21.3	19.1	19.0	20.7
Western Sydney					
Auburn	21.9	19.5	17.3	15.3	16.2
Blacktown	13.9	10.1	9.5	10.0	6.8
Westmead	9.5	11.5	10.9	9.0	7.3
TOTAL	12.7	12.3	11.7	10.4	8.6
Nepean Blue Mountains					
Blue Mountains	25.8	27.3	27.5	36.7	15.4
Nepean	17.9	14.7	13.3	15.0	12.1
Hawkesbury	28.0	22.1	30.9	26.4	25.5
Lithgow	13.0	17.4	35.7	15.6	15.0
TOTAL	20.0	16.4	17.8	18.2	14.8
Northern Sydney					
Hornsby	14.5	18.0	16.1	14.4	15.4
Manly	20.5	19.8	13.1	17.6	11.0
Mona Vale	22.1	0.0	0.0	27.0	15.3
Royal North Shore	13.1	13.9	8.4	9.5	9.3
Other hospitals	60.6	54.3	45.2	35.9	51.6
TOTAL	17.0	17.6	12.4	13.9	12.5
Central Coast					
Gosford	15.8	13.7	11.9	16.8	9.6
Other hospitals	27.9	15.4	31.3	51.4	49.0
TOTAL	16.8	13.8	13.1	19.1	13.0
Hunter New England					
Armidale	23.5	22.7	20.0	24.2	24.6
Inverell	34.3	48.7	34.3	23.1	42.9
Tamworth Base	19.5	21.4	18.8	17.2	21.1
Manning Base	23.8	25.2	27.1	26.4	30.3
Maitland	19.7	14.4	15.0	20.2	24.3
John Hunter	21.8	17.9	13.0	14.4	12.6
Other hospitals	26.5	28.2	32.7	32.4	28.8
TOTAL	22.3	20.5	18.1	19.9	19.9

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Northern NSW					
Grafton Base	31.5	41.7	39.6	43.4	39.4
Lismore Base	22.4	26.8	28.8	20.7	25.7
Tweed Heads	23.8	25.1	27.2	24.5	25.5
Other hospitals	41.0	46.4	33.8	34.0	42.9
TOTAL	26.1	29.1	29.8	26.3	28.0
Mid North Coast					
Coffs Harbour	16.2	18.1	17.4	16.2	14.4
Kempsey	35.4	38.9	49.1	30.6	36.1
Port Macquarie Base	30.3	16.2	20.1	15.7	20.1
Other hospitals	0.0	25.0	50.0	33.3	33.3
TOTAL	23.3	20.1	22.9	17.8	19.2
Southern NSW					
Bega	36.4	21.1	20.3	27.0	37.8
Goulburn Base	10.0	5.1	8.1	12.1	14.3
Moruya	34.5	38.8	29.6	34.9	32.7
Queanbeyan	43.6	50.5	38.8	33.3	29.8
Other hospitals	59.0	65.5	45.2	38.7	48.1
TOTAL	36.4	35.0	28.0	29.0	29.9
Murrumbidgee					
Griffith Base	32.1	35.0	33.3	28.0	34.9
Wagga Wagga Base	32.0	28.9	32.2	23.0	25.8
Other hospitals	32.2	38.6	31.7	32.6	43.3
TOTAL	32.1	34.3	32.3	27.2	34.1
Western NSW					
Dubbo Base	36.2	30.6	27.1	33.1	23.5
Mudgee	35.6	27.9	22.5	22.1	21.7
Bathurst Base	35.9	31.0	36.2	26.0	23.2
Orange Base	21.1	24.2	20.5	19.6	14.2
Other hospitals	21.2	33.7	33.3	37.4	27.4
TOTAL	31.0	29.3	27.1	27.1	20.9
Far West					
Broken Hill Base	46.5	36.4	52.8	31.4	21.2
TOTAL	46.5	36.4	52.8	31.4	21.2
Private Hospitals					
Mater, North Sydney	9.3	9.7	8.6	11.7	15.1
North Shore Private	14.0	8.6	10.9	12.2	12.4
Sydney Adventist	6.7	8.0	11.8	11.9	14.2
North Gosford Private	27.6	19.3	16.6	19.5	11.9
Hurstville Community	11.6	7.6	5.3	9.7	11.3
Kareena Private	16.9	8.4	19.7	11.6	7.8
St. George Private	10.1	8.0	11.7	12.4	8.9
Prince of Wales Private	17.6	20.1	17.3	10.8	12.3
Norwest Private	14.9	11.0	7.5	7.9	12.3
Sydney Southwest Private	8.0	11.6	12.9	12.2	10.0
Nepean Private	11.7	10.9	7.6	9.9	6.3
Westmead Private	12.6	10.7	6.6	6.2	3.0
Figtree Private	11.1	7.8	6.8	9.0	5.0
Newcastle Private	27.5	17.5	21.8	17.7	13.8
Calvary, Wagga Wagga	8.6	2.7	8.2	4.7	11.1
Other hospitals	16.7	13.5	14.3	10.2	0.0
TOTAL	13.6	11.2	11.7	11.2	10.7
TOTAL NSW*	17.7	16.5	15.6	15.6	14.7

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

Hospitals with more than 200 births in 2013 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 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 greater than 20 weeks gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 41⁰ weeks gestation.

Table 62 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 62: 3.2 SELECTED PRIMIPARA UNDERGOING EPISIOTOMY AND NO PERINEAL TEAR BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013*

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Sydney					
Canterbury	29.8	21.7	22.3	24.5	28.9
Royal Prince Alfred	16.6	15.7	17.5	20.3	23.5
TOTAL	19.7	17.0	18.4	21.2	24.7
South Western Sydney					
Fairfield	30.5	27.7	25.5	25.0	24.6
Liverpool	28.7	27.8	26.8	30.7	33.2
Campbelltown	20.3	26.0	22.2	21.3	19.1
Bankstown-Lidcombe	32.3	33.9	28.8	31.5	31.5
Bowral	18.6	21.3	26.2	24.5	17.7
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	27.2	28.4	25.8	26.9	26.5
South Eastern Sydney					
St. George	19.4	22.0	22.5	19.4	25.1
Sutherland	16.8	14.5	20.0	21.1	23.5
Royal Hospital for Women	27.0	26.6	23.9	28.5	27.8
TOTAL	22.6	22.8	22.8	24.3	26.2
Illawarra Shoalhaven					
Shoalhaven	18.4	17.7	20.6	24.6	27.8
Wollongong	14.1	14.2	16.4	16.0	20.6
Other hospitals	10.5	22.7	19.2	4.2	4.2
TOTAL	15.0	15.4	17.4	17.8	21.8
Western Sydney					
Auburn	24.8	29.7	20.4	21.3	27.7
Blacktown	26.6	36.1	36.4	37.8	32.8
Westmead	34.7	36.5	36.1	36.0	37.9
TOTAL	30.7	35.4	33.4	33.9	34.9
Nepean Blue Mountains					
Blue Mountains	9.7	9.1	10.0	4.1	2.6
Nepean	21.3	26.5	25.6	24.7	28.1
Hawkesbury	22.4	24.3	14.8	26.4	26.2
Lithgow	30.4	8.7	10.7	18.8	32.5
TOTAL	21.3	25.0	22.4	23.5	26.8
Northern Sydney					
Hornsby	21.5	16.3	20.7	16.8	14.0
Manly	14.4	11.0	18.3	22.9	22.0
Mona Vale	8.8	0.0	0.0	13.5	20.0
Royal North Shore	24.0	24.9	22.6	25.2	25.9
Other hospitals	0.0	0.0	0.0	2.6	3.2
TOTAL	19.6	18.5	20.4	21.7	21.5
Central Coast					
Gosford	13.2	13.3	17.3	15.6	23.2
Other hospitals	4.7	3.8	3.1	0.0	0.0
TOTAL	12.5	12.8	16.4	14.5	21.3
Hunter New England					
Armidale	19.1	25.3	32.0	25.3	17.4
Inverell	48.6	35.9	48.6	51.3	28.6
Tamworth Base	17.8	21.4	23.0	17.9	26.3
Manning Base	12.3	17.9	19.4	12.5	15.9
Maitland	12.2	18.2	14.3	17.6	12.3
John Hunter	14.9	15.9	16.2	18.7	23.1
Other hospitals	11.6	10.1	13.5	16.0	16.3
TOTAL	15.0	17.0	17.8	18.6	19.9

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Northern NSW					
Grafton Base	22.5	13.9	12.1	18.4	15.5
Lismore Base	18.1	11.8	12.7	17.3	23.7
Tweed Heads	14.9	12.4	7.9	16.0	13.1
Other hospitals	13.3	4.3	4.2	3.0	1.8
TOTAL	16.6	11.6	9.7	15.1	15.9
Mid North Coast					
Coffs Harbour	24.3	13.8	12.8	17.1	18.3
Kempsey	4.2	11.1	11.3	5.6	8.3
Port Macquarie Base	16.6	19.5	17.7	13.7	17.8
Other hospitals	0.0	0.0	0.0	8.3	16.7
TOTAL	18.9	15.4	14.2	14.6	17.1
Southern NSW					
Bega	13.6	22.8	13.6	10.8	17.8
Goulburn Base	74.0	66.1	75.8	59.1	52.4
Moruya	20.7	17.9	16.7	12.7	14.3
Queanbeyan	10.3	5.5	7.1	12.0	12.1
Other hospitals	2.6	6.9	12.9	16.1	7.4
TOTAL	23.8	23.4	24.7	22.3	21.1
Murrumbidgee					
Griffith Base	20.5	27.0	25.3	29.0	18.3
Wagga Wagga Base	20.0	21.9	11.3	16.3	13.7
Other hospitals	27.0	17.3	25.2	23.6	12.5
TOTAL	22.6	21.7	20.3	22.4	14.8
Western NSW					
Dubbo Base	23.1	23.8	21.8	24.4	28.1
Mudgee	8.9	11.6	5.0	14.7	16.7
Bathurst Base	20.5	15.0	21.3	10.6	11.1
Orange Base	15.0	14.3	16.5	19.1	18.6
Other hospitals	7.6	9.0	11.1	15.4	17.8
TOTAL	18.0	17.2	17.7	18.1	20.1
Far West					
Broken Hill Base	16.3	18.2	13.9	14.3	30.3
TOTAL	16.3	18.2	13.9	14.3	30.3
Private Hospitals					
Mater, North Sydney	43.6	42.6	41.1	42.5	37.9
North Shore Private	38.7	40.2	38.4	40.1	32.0
Sydney Adventist	34.6	33.7	30.9	31.8	32.7
North Gosford Private	25.2	39.3	39.7	35.9	46.3
Hurstville Community	36.1	45.3	38.9	39.5	42.3
Kareena Private	32.3	28.0	26.1	29.7	31.2
St. George Private	32.0	38.2	34.5	27.4	27.2
Prince of Wales Private	34.4	30.8	33.8	31.6	41.7
Norwest Private	27.5	32.6	37.5	30.3	36.4
Sydney Southwest Private	46.8	48.6	55.6	52.2	51.3
Nepean Private	47.7	49.7	57.1	53.9	57.0
Westmead Private	49.8	57.9	59.1	66.8	63.5
Figtree Private	53.5	54.4	52.1	48.1	55.0
Newcastle Private	22.4	27.0	23.2	25.2	13.4
Calvary, Wagga Wagga	29.7	33.6	41.8	42.4	44.4
Other hospitals	44.4	48.6	54.8	49.0	20.0
TOTAL	37.8	40.3	40.1	39.2	39.0
TOTAL NSW*	25.4	26.3	25.8	26.7	27.7

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

Hospitals with more than 200 births in 2013 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 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 greater than 20 weeks gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 41⁰ weeks gestation.

Table 63 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 63: 3.3 SELECTED PRIMIPARA SUSTAINING A PERINEAL TEAR AND NO EPISIOTOMY BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013^a

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Sydney					
Canterbury	54.9	60.2	64.0	58.6	59.2
Royal Prince Alfred	72.4	69.5	66.1	65.5	60.9
TOTAL	68.3	67.5	65.6	64.1	60.5
South Western Sydney					
Fairfield	52.7	57.2	56.3	58.0	54.2
Liverpool	51.5	56.4	55.7	54.8	53.9
Campbelltown	56.4	58.2	61.4	63.6	63.7
Bankstown-Lidcombe	49.1	49.6	55.6	51.4	47.8
Bowral	63.7	54.9	50.5	58.8	58.4
Other hospitals	0.0	0.0	0.0	0.0	0.0
TOTAL	53.0	55.4	57.1	57.2	55.8
South Eastern Sydney					
St. George	59.8	59.1	55.6	55.8	56.1
Sutherland	66.2	68.2	61.3	58.9	57.8
Royal Hospital for Women	58.4	60.6	57.9	55.2	57.5
TOTAL	60.3	61.4	57.7	56.0	57.1
Illawarra Shoalhaven					
Shoalhaven	62.0	68.3	61.0	60.1	56.2
Wollongong	64.9	67.0	68.8	72.0	61.8
Other hospitals	63.2	40.9	50.0	75.0	75.0
TOTAL	64.2	66.5	66.5	69.0	60.9
Western Sydney					
Auburn	53.7	54.4	60.9	64.5	57.7
Blacktown	56.5	51.3	48.3	46.6	50.7
Westmead	46.4	46.8	45.2	47.6	43.5
TOTAL	50.7	49.3	48.8	50.3	47.7
Nepean Blue Mountains					
Blue Mountains	71.0	66.7	77.5	73.5	87.2
Nepean	59.6	57.2	59.5	59.2	56.0
Hawkesbury	57.8	62.5	61.1	56.8	56.7
Lithgow	56.5	65.2	46.4	53.1	52.5
TOTAL	59.6	58.6	60.2	59.5	57.5
Northern Sydney					
Hornsby	64.6	67.1	61.4	65.0	69.6
Manly	63.7	72.6	60.2	57.5	59.6
Mona Vale	73.5	0.0	0.0	67.6	66.0
Royal North Shore	53.3	52.6	55.0	57.7	55.6
Other hospitals	90.9	97.1	83.9	82.1	96.8
TOTAL	60.8	62.6	58.6	60.3	61.4
Central Coast					
Gosford	68.0	66.2	61.3	64.9	57.4
Other hospitals	79.1	84.6	84.4	73.0	86.3
TOTAL	68.9	67.1	62.7	65.4	59.8
Hunter New England					
Armistead	60.3	52.0	48.0	53.5	65.2
Inverell	28.6	38.5	28.6	30.8	57.1
Tamworth Base	67.2	58.4	60.0	62.3	59.3
Manning Base	67.2	63.4	63.6	69.4	66.7
Maitland	73.1	67.0	69.7	67.4	70.8
John Hunter	69.1	64.3	67.8	65.6	61.9
Other hospitals	73.5	71.4	68.3	62.9	60.1
TOTAL	68.8	64.0	65.5	64.2	63.4

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Northern NSW					
Grafton Base	51.7	58.3	65.9	56.6	56.3
Lismore Base	68.4	63.2	70.0	67.9	59.3
Tweed Heads	66.1	66.8	73.1	67.7	69.9
Other hospitals	60.2	60.9	77.5	81.0	78.6
TOTAL	64.5	64.4	71.6	68.3	65.9
Mid North Coast					
Coffs Harbour	51.9	71.4	70.2	63.3	65.0
Kempsey	70.8	64.8	62.3	77.8	69.4
Port Macquarie Base	57.2	53.2	62.2	63.4	63.9
Other hospitals	100.0	75.0	60.0	75.0	66.7
TOTAL	56.5	64.0	66.1	65.0	65.0
Southern NSW					
Bega	47.7	63.2	69.5	78.4	60.0
Goulburn Base	14.0	18.6	11.3	24.2	30.2
Moruya	50.0	53.7	53.7	49.2	69.4
Queanbeyan	59.0	65.9	60.2	70.1	67.7
Other hospitals	59.0	44.8	64.5	54.8	63.0
TOTAL	46.8	51.5	51.3	55.7	58.8
Murrumbidgee					
Griffith Base	62.8	51.0	56.3	52.3	65.1
Wagga Wagga Base	57.6	61.4	71.3	63.7	67.7
Other hospitals	43.5	52.0	46.3	46.1	55.8
TOTAL	53.8	54.8	57.8	55.3	63.2
Western NSW					
Dubbo Base	45.0	51.6	54.7	51.7	49.5
Mudgee	51.1	55.8	72.5	67.6	75.0
Bathurst Base	56.4	68.0	59.6	72.1	76.8
Orange Base	51.9	64.0	67.6	57.3	61.7
Other hospitals	68.2	66.3	64.2	61.5	61.6
TOTAL	51.9	59.6	61.5	59.9	61.5
Far West					
Broken Hill Base	53.5	60.6	61.1	71.4	51.5
TOTAL	53.5	60.6	61.1	71.4	51.5
Private Hospitals					
Mater, North Sydney	36.6	36.6	40.6	34.8	38.8
North Shore Private	46.4	50.8	50.7	46.1	53.5
Sydney Adventist	56.8	57.1	58.0	57.0	51.9
North Gosford Private	44.7	36.3	32.5	37.5	35.8
Hurstville Community	43.5	40.9	46.8	47.6	43.7
Kareena Private	54.6	63.6	54.2	58.1	56.0
St. George Private	56.2	54.5	54.4	60.2	62.1
Prince of Wales Private	40.1	43.5	43.9	50.4	40.3
Norwest Private	50.2	45.6	47.8	53.7	43.9
Sydney Southwest Private	36.8	33.3	28.4	32.2	37.0
Nepean Private	29.9	34.4	24.7	28.3	28.2
Westmead Private	39.3	31.6	32.1	24.9	28.5
Figtree Private	35.4	38.2	40.5	42.4	38.1
Newcastle Private	57.5	60.7	60.9	59.7	62.4
Calvary, Wagga Wagga	50.8	44.5	33.6	42.4	37.0
Other hospitals	27.8	43.2	28.6	34.7	60.0
TOTAL	45.2	44.9	44.9	46.0	45.2
TOTAL NSW*	56.2	56.6	56.6	56.6	55.4

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

Hospitals with more than 200 births in 2013 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 greater than 20 weeks gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 41⁰ weeks gestation.

Table 64 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 64: 3.4 SELECTED PRIMIPARA UNDERGOING EPISIOTOMY AND SUSTAINING A PERINEAL TEAR BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013[#]

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Sydney					
Canterbury	5.51	8.31	6.25	6.43	4.53
Royal Prince Alfred	3.47	6.30	7.79	6.38	8.68
TOTAL	3.94	6.72	7.48	6.39	7.77
South Western Sydney					
Fairfield	3.05	3.26	2.13	1.92	3.63
Liverpool	5.49	4.06	6.49	5.60	4.53
Campbelltown	2.08	1.75	3.09	1.94	3.16
Bankstown-Lidcombe	6.57	7.72	6.83	8.09	7.91
Bowral	1.77	3.28	1.87	0.98	1.77
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	4.16	4.10	4.61	4.22	4.55
South Eastern Sydney					
St. George	11.42	11.14	12.22	15.99	13.30
Sutherland	4.83	3.90	6.41	7.78	10.23
Royal Hospital for Women	6.94	6.88	11.43	8.53	7.76
TOTAL	7.94	7.84	10.80	10.88	9.93
Illawarra Shoalhaven					
Shoalhaven	6.96	3.05	3.55	2.19	1.23
Wollongong	5.71	8.66	4.87	5.11	7.94
Other hospitals	10.53	0.00	3.85	8.33	4.17
TOTAL	6.15	7.00	4.56	4.45	6.13
Western Sydney					
Auburn	8.25	9.31	8.77	7.55	8.09
Blacktown	10.73	9.50	10.30	7.77	13.00
Westmead	11.63	10.20	11.16	10.67	13.98
TOTAL	10.85	9.86	10.52	9.34	12.76
Nepean Blue Mountains					
Blue Mountains	6.45	9.09	2.50	2.04	5.13
Nepean	9.69	6.89	8.25	9.06	8.10
Hawkesbury	13.04	5.15	6.04	6.40	3.55
Lithgow	4.35	8.70	25.00	12.50	10.00
TOTAL	10.07	6.74	8.15	8.33	7.25
Northern Sydney					
Hornsby	6.06	6.36	6.67	10.18	8.03
Manly	12.59	6.60	13.08	10.20	12.65
Mona Vale	2.94	0.00	0.00	5.41	6.67
Royal North Shore	16.44	16.03	18.80	11.66	14.97
Other hospitals	0.00	0.00	3.23	2.56	0.00
TOTAL	11.69	10.83	14.06	10.53	11.80
Central Coast					
Gosford	11.94	14.16	16.04	10.18	13.79
Other hospitals	4.65	3.85	0.00	0.00	0.00
TOTAL	11.33	13.63	15.04	9.48	12.62
Hunter New England					
Armidale	5.88	9.33	10.67	8.08	10.14
Inverell	8.57	0.00	2.86	5.13	3.57
Tamworth Base	7.47	8.44	6.67	8.61	4.64
Manning Base	4.92	3.25	5.43	4.17	2.27
Maitland	7.89	7.90	10.33	4.11	7.69
John Hunter	9.14	11.76	8.17	9.54	9.04
Other hospitals	3.72	7.14	7.21	5.09	8.15
TOTAL	7.57	9.14	8.08	7.25	7.67
Northern NSW					
Grafton Base	0.00	2.78	1.10	1.32	2.82
Lismore Base	3.38	9.21	6.54	5.91	6.32
Tweed Heads	2.44	3.80	5.95	5.66	6.80
Other hospitals	2.41	1.45	5.63	3.00	0.00
TOTAL	2.44	5.10	5.55	5.02	5.81
Mid North Coast					
Coffs Harbour	7.14	5.71	6.88	10.00	6.67
Kempsey	6.25	1.85	3.77	2.78	0.00
Port Macquarie Base	6.21	11.04	7.93	11.11	10.06
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	6.63	7.11	6.74	9.49	7.42
Southern NSW					
Bega	6.82	5.26	5.08	5.41	2.22
Goulburn Base	4.00	5.08	1.61	4.55	7.94
Moruya	0.00	2.99	9.26	3.17	0.00
Queanbeyan	6.41	1.10	4.08	5.13	3.23
Other hospitals	0.00	3.45	0.00	9.68	7.41
TOTAL	3.72	3.30	4.28	5.10	3.90
Murrumbidgee					
Griffith Base	3.85	4.00	8.05	5.61	1.83
Wagga Wagga Base	8.00	3.51	4.35	5.93	5.65
Other hospitals	4.35	3.94	3.25	4.49	5.77
TOTAL	5.66	3.81	4.92	5.44	4.45
Western NSW					
Dubbo Base	6.11	6.85	6.22	2.33	7.14
Mudgee	11.11	11.63	12.50	4.41	3.33
Bathurst Base	1.71	5.00	6.38	7.69	4.04
Orange Base	17.29	11.80	9.66	14.57	15.30
Other hospitals	6.06	8.99	7.41	3.30	6.85
TOTAL	8.14	8.42	7.79	7.41	8.67
Far West					
Broken Hill Base	0.00	3.03	2.78	5.71	9.09
TOTAL	0.00	3.03	2.78	5.71	9.09
Private Hospitals					
Mater, North Sydney	7.95	5.30	5.14	7.01	3.88
North Shore Private	0.90	1.13	0.24	0.92	0.72
Sydney Adventist	2.59	1.45	1.01	0.47	1.44
North Gosford Private	4.88	5.19	7.95	3.13	2.24
Hurstville Community	7.41	5.78	5.26	4.32	2.11
Kareena Private	0.77	0.00	0.70	1.29	0.71
St. George Private	0.86	0.62	0.00	0.59	0.26
Prince of Wales Private	6.41	4.91	4.28	7.08	4.72
Norwest Private	4.31	3.26	2.40	4.44	4.57
Sydney Southwest Private	5.20	2.78	3.56	2.61	1.74
Nepean Private	1.52	2.19	5.88	3.29	4.23
Westmead Private	0.52	0.80	0.80	1.01	0.74
Figtree Private	0.51	0.00	0.53	0.48	0.00
Newcastle Private	0.25	0.00	0.00	0.00	2.45
Calvary, Wagga Wagga	13.28	14.55	10.00	2.35	1.85
Other hospitals	9.26	5.41	11.90	8.16	0.00
TOTAL	3.40	2.72	2.54	2.73	2.22
TOTAL NSW*	6.36	6.48	7.14	6.56	7.09

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

Hospitals with more than 200 births in 2013 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 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 greater than 20 weeks gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 41⁰ weeks gestation.

Table 65 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 65: 3.5 SELECTED PRIMIPARA UNDERGOING SURGICAL REPAIR OF THE PERINEUM FOR THIRD DEGREE TEAR BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013*

Local Health District–Hospital	2009 %	2010 %	2011 %	2012 %	2013 %
Sydney					
Canterbury	2.51	10.83	9.75	6.90	10.26
Royal Prince Alfred	6.04	6.16	7.15	7.63	6.17
TOTAL	5.22	7.15	7.68	7.48	7.08
South Western Sydney					
Fairfield	4.77	2.65	3.29	7.69	8.87
Liverpool	6.19	5.65	7.65	6.58	5.96
Campbelltown	2.97	4.47	3.09	5.26	2.65
Bankstown-Lidcombe	4.20	2.33	5.63	5.23	4.68
Bowral	4.42	3.28	0.00	5.88	4.42
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	4.55	3.90	4.80	6.14	5.21
South Eastern Sydney					
St. George	7.98	9.59	7.87	11.01	9.12
Sutherland	4.58	4.18	5.13	8.61	8.95
Royal Hospital for Women	7.33	7.19	8.19	5.66	5.57
TOTAL	7.01	7.50	7.55	7.89	7.29
Illawarra Shoalhaven					
Shoalhaven	1.27	1.83	2.84	2.19	1.85
Wollongong	3.27	4.12	5.85	7.57	3.43
Other hospitals	15.79	0.00	0.00	0.00	4.17
TOTAL	3.15	3.43	5.00	5.89	3.07
Western Sydney					
Auburn	1.90	6.31	4.98	5.03	4.44
Blacktown	8.87	5.85	6.64	4.93	8.72
Westmead	3.73	5.88	6.47	5.92	6.99
TOTAL	5.12	5.93	6.25	5.50	7.04
Nepean Blue Mountains					
Blue Mountains	3.23	18.18	2.50	10.20	7.69
Nepean	5.33	4.49	4.60	6.62	6.03
Hawkesbury	2.48	3.68	4.70	6.40	4.96
Lithgow	0.00	0.00	3.57	0.00	0.00
TOTAL	4.56	4.77	4.49	6.54	5.63
Northern Sydney					
Hornsby	5.39	5.65	5.96	7.49	5.02
Manly	2.88	5.35	4.94	1.98	8.57
Mona Vale	5.88	0.00	0.00	2.70	6.00
Royal North Shore	10.50	9.58	10.60	9.51	11.73
Other hospitals	3.03	2.86	3.23	2.56	0.00
TOTAL	6.94	7.36	7.79	6.78	8.81
Central Coast					
Gosford	7.04	9.51	7.29	7.19	9.62
Other hospitals	0.00	0.00	0.00	0.00	5.88
TOTAL	6.45	9.02	6.84	6.69	9.30
Hunter New England					
Armidale	0.00	0.00	0.00	2.02	4.35
Inverell	0.00	0.00	0.00	2.56	0.00
Tamworth Base	4.60	5.19	5.45	3.97	5.15
Manning Base	2.46	2.44	3.88	6.25	2.27
Maitland	10.04	7.56	10.00	7.33	7.69
John Hunter	7.80	10.07	8.42	8.09	8.06
Other hospitals	2.33	2.52	6.25	4.73	3.86
TOTAL	6.23	6.88	7.27	6.55	6.44

Local Health District–Hospital	2009 %	2010 %	2011 %	2012 %	2013 %
Northern NSW					
Grafton Base	4.49	2.78	4.40	2.63	0.00
Lismore Base	3.38	4.82	1.92	2.95	2.37
Tweed Heads	7.05	3.80	6.52	4.25	5.58
Other hospitals	1.20	1.45	1.41	2.00	3.57
TOTAL	5.01	3.80	4.26	3.46	3.91
Mid North Coast					
Coffs Harbour	7.14	4.29	3.67	6.19	6.11
Kempsey	0.00	3.70	1.89	0.00	5.56
Port Macquarie Base	4.83	5.19	7.32	9.80	12.43
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	5.41	4.50	4.72	6.81	8.70
Southern NSW					
Bega	2.27	5.26	1.69	5.41	4.44
Goulburn Base	8.00	3.39	3.23	1.52	1.59
Moruya	1.72	1.49	5.56	12.70	8.16
Queanbeyan	3.85	3.30	3.06	0.00	3.23
Other hospitals	5.13	0.00	6.45	6.45	7.41
TOTAL	4.09	2.97	3.62	4.14	4.22
Murrumbidgee					
Griffith Base	6.41	1.00	2.30	2.80	1.83
Wagga Wagga Base	4.00	1.75	2.61	8.89	8.06
Other hospitals	0.87	1.57	0.81	4.49	3.85
TOTAL	3.46	1.47	1.85	5.74	4.75
Western NSW					
Dubbo Base	4.80	2.42	3.11	4.65	2.04
Mudgee	4.44	2.33	2.50	1.47	0.00
Bathurst Base	5.98	3.00	3.19	9.62	4.04
Orange Base	8.27	9.32	12.50	10.55	9.29
Other hospitals	6.06	12.36	6.17	5.49	4.11
TOTAL	5.93	5.62	6.17	7.10	4.58
Far West					
Broken Hill Base	2.33	6.06	0.00	0.00	3.03
TOTAL	2.33	6.06	0.00	0.00	3.03
Private Hospitals					
Mater, North Sydney	4.09	1.99	2.86	2.34	1.83
North Shore Private	2.25	1.35	1.90	1.15	1.91
Sydney Adventist	2.16	1.45	1.26	0.47	0.72
North Gosford Private	2.44	2.96	4.64	2.34	2.99
Hurstville Community	4.17	2.67	2.11	2.16	1.41
Kareena Private	3.08	2.80	1.41	1.29	3.55
St. George Private	4.61	3.69	1.63	2.65	3.39
Prince of Wales Private	1.19	1.56	0.90	0.88	2.36
Norwest Private	3.53	3.51	3.37	2.22	2.91
Sydney Southwest Private	1.60	3.70	3.11	3.04	2.61
Nepean Private	1.52	3.28	5.29	1.97	2.82
Westmead Private	0.17	0.40	1.00	0.40	0.93
Figtree Private	0.51	0.98	1.58	0.95	0.99
Newcastle Private	1.97	3.34	2.11	3.10	5.12
Calvary, Wagga Wagga	7.81	9.09	10.91	5.88	0.00
Other hospitals	3.70	2.70	2.38	2.04	0.00
TOTAL	2.43	2.37	2.34	1.78	2.33
TOTAL NSW*	4.75	5.03	5.36	5.43	5.53

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

Hospitals with more than 200 births in 2013 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 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 greater than 20 weeks gestation; singleton pregnancy; cephalic presentation; and at 37⁰ to 41⁰ weeks gestation.

Table 66 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 66: 3.6 SELECTED PRIMIPARA UNDERGOING SURGICAL REPAIR OF THE PERINEUM FOR FOURTH DEGREE TEAR BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013*

Local Health District–Hospital	2009 %	2010 %	2011 %	2012 %	2013 %
Sydney					
Canterbury	0.00	1.26	0.75	0.24	0.95
Royal Prince Alfred	0.23	0.14	0.26	0.50	0.34
TOTAL	0.17	0.37	0.36	0.45	0.48
South Western Sydney					
Fairfield	0.19	0.41	0.58	0.70	0.00
Liverpool	0.84	0.58	0.29	0.42	0.26
Campbelltown	0.00	0.16	0.29	0.28	0.25
Bankstown-Lidcombe	0.36	0.18	0.34	0.51	0.36
Bowral	0.00	0.00	0.00	0.00	0.00
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	0.35	0.32	0.35	0.44	0.22
South Eastern Sydney					
St. George	0.78	0.56	0.00	0.39	0.15
Sutherland	0.00	0.00	0.26	0.28	0.26
Royal Hospital for Women	0.20	0.42	0.18	0.84	0.46
TOTAL	0.34	0.39	0.14	0.61	0.32
Illawarra Shoalhaven					
Shoalhaven	0.63	0.00	0.00	1.09	0.62
Wollongong	0.41	0.00	0.78	0.20	0.43
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	0.45	0.00	0.59	0.43	0.46
Western Sydney					
Auburn	1.27	0.30	0.00	0.23	0.26
Blacktown	0.14	0.29	0.17	0.45	1.27
Westmead	0.69	0.24	0.45	0.22	0.45
TOTAL	0.60	0.27	0.30	0.28	0.64
Nepean Blue Mountains					
Blue Mountains	0.00	0.00	0.00	0.00	0.00
Nepean	0.48	0.45	0.32	0.87	0.52
Hawkesbury	0.00	0.00	0.00	0.00	0.00
Lithgow	0.00	0.00	0.00	0.00	2.50
TOTAL	0.36	0.35	0.24	0.64	0.50
Northern Sydney					
Hornsby	0.00	1.06	0.35	0.90	0.00
Manly	0.72	0.00	0.29	0.28	0.00
Mona Vale	0.00	0.0	0.0	0.00	0.67
Royal North Shore	0.20	0.70	0.51	0.77	0.00
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	0.25	0.58	0.40	0.64	0.07
Central Coast					
Gosford	0.00	0.63	0.63	0.80	0.18
Other hospitals	0.00	0.00	0.00	0.00	3.92
TOTAL	0.00	0.60	0.59	0.74	0.50
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	1.15	1.30	0.00	0.00	0.52
Manning Base	0.00	0.00	0.78	0.00	0.00
Maitland	0.36	0.00	1.00	0.29	0.62
John Hunter	0.67	0.52	0.37	0.36	0.61
Other hospitals	0.00	0.42	0.00	0.00	0.43
TOTAL	0.49	0.42	0.41	0.21	0.50

Local Health District–Hospital	2009 %	2010 %	2011 %	2012 %	2013 %
Northern NSW					
Grafton Base	0.00	0.00	0.00	0.00	0.00
Lismore Base	0.42	0.44	0.00	0.00	0.00
Tweed Heads	0.00	0.76	0.85	0.24	0.49
Other hospitals	0.00	0.00	1.41	0.00	0.00
TOTAL	0.13	0.52	0.52	0.12	0.25
Mid North Coast					
Coffs Harbour	0.48	0.00	0.00	0.48	0.00
Kempsey	0.00	0.00	0.00	0.00	0.00
Port Macquarie Base	0.69	0.00	0.61	0.65	0.00
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	0.49	0.00	0.22	0.49	0.00
Southern NSW					
Bega	0.00	1.75	0.00	0.00	2.22
Goulburn Base	0.00	0.00	0.00	0.00	0.00
Moruya	0.00	1.49	0.00	0.00	0.00
Queanbeyan	0.00	1.10	0.00	0.85	0.00
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.99	0.00	0.32	0.32
Murrumbidgee					
Griffith Base	0.00	0.00	1.15	0.00	0.00
Wagga Wagga Base	0.00	0.00	0.87	0.74	0.00
Other hospitals	0.87	0.00	0.00	1.12	0.00
TOTAL	0.31	0.00	0.62	0.60	0.00
Western NSW					
Dubbo Base	0.00	0.40	0.44	0.00	0.00
Mudgee	0.00	0.00	0.00	1.47	0.00
Bathurst Base	0.00	0.00	0.00	0.96	0.00
Orange Base	0.00	0.62	0.57	0.00	0.00
Other hospitals	0.00	1.12	1.23	1.10	4.11
TOTAL	0.00	0.47	0.49	0.47	0.49
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	0.23	0.22	0.86	0.23	0.00
North Shore Private	0.45	0.00	0.00	0.00	0.00
Sydney Adventist	0.22	0.24	0.25	0.23	0.48
North Gosford Private	0.00	0.74	0.00	0.00	0.75
Hurstville Community	0.00	0.89	0.00	1.08	0.00
Kareena Private	0.00	0.00	0.00	0.00	0.00
St. George Private	0.58	0.31	0.00	0.00	0.78
Prince of Wales Private	0.00	0.00	0.68	0.22	0.00
Norwest Private	0.39	0.00	0.24	0.00	0.00
Sydney Southwest Private	0.00	0.00	0.44	0.00	0.43
Nepean Private	0.00	0.55	0.00	0.66	0.00
Westmead Private	0.17	0.40	0.20	0.00	0.00
Figtree Private	0.00	0.00	0.00	0.00	0.00
Newcastle Private	1.23	0.28	1.17	0.22	0.00
Calvary, Wagga Wagga	3.13	4.55	2.73	0.00	0.00
Other hospitals	1.85	0.00	0.00	0.00	0.00
TOTAL	0.39	0.33	0.40	0.15	0.15
TOTAL NSW*	0.35	0.36	0.35	0.38	0.33

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

Hospitals with more than 200 births in 2013 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 67 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 67: 4.1 GENERAL ANAESTHESIA FOR CAESAREAN SECTION BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013#

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Sydney					
Canterbury	14.06	11.75	7.69	11.86	13.47
Royal Prince Alfred	11.89	15.19	12.47	10.43	10.08
TOTAL	12.36	14.46	11.56	10.77	10.87
South Western Sydney					
Fairfield	36.19	26.90	25.08	21.91	14.48
Liverpool	18.22	16.52	16.76	18.06	14.68
Campbelltown	16.10	14.24	10.77	11.25	9.39
Bankstown-Lidcombe	15.30	17.18	16.67	17.69	12.72
Bowral	9.35	19.05	13.51	10.20	11.90
TOTAL	19.27	17.66	15.98	16.43	12.61
South Eastern Sydney					
St. George	8.59	9.46	9.40	8.87	9.91
Sutherland	10.11	10.11	10.62	11.58	8.94
Royal Hospital for Women	4.73	3.22	3.77	4.42	4.51
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	6.49	5.95	6.29	6.83	6.85
Illawarra Shoalhaven					
Shoalhaven	8.21	9.15	9.44	6.10	6.51
Wollongong	10.59	10.63	10.00	8.26	9.12
Other hospitals	8.33	6.25	0.00	3.85	11.76
TOTAL	9.78	10.06	9.52	7.50	8.42
Western Sydney					
Auburn	15.21	13.45	13.81	10.57	5.64
Blacktown	13.03	15.04	15.33	10.43	12.77
Westmead	14.69	11.50	9.85	11.40	9.30
TOTAL	14.19	12.85	12.07	11.00	10.07
Nepean Blue Mountains					
Blue Mountains	10.67	13.33	8.33	9.62	8.33
Nepean	19.98	18.26	13.98	18.36	16.19
Hawkesbury	14.39	15.58	10.12	8.49	7.48
Lithgow	3.33	1.59	14.71	4.08	3.28
TOTAL	17.81	16.86	13.11	16.00	13.91
Northern Sydney					
Hornsby	7.35	8.86	5.67	5.88	6.40
Manly	6.13	7.22	4.67	4.21	4.20
Mona Vale	6.90	0.00	0.00	0.00	6.08
Royal North Shore	8.90	8.53	7.35	5.14	5.16
Other hospitals	0.00	0.00	0.00	100.00	0.00
TOTAL	7.84	8.31	6.45	5.03	5.32
Central Coast					
Gosford	11.06	12.49	10.67	7.78	7.74
Other hospitals	100.00	0.00	0.00	0.00	0.00
TOTAL	11.16	12.49	10.67	7.78	7.74
Hunter New England					
Armidale	10.19	6.31	7.94	9.33	5.38
Inverell	1.25	4.35	0.00	3.37	2.13
Tamworth Base	16.04	10.04	11.37	10.37	9.82
Manning Base	22.11	20.71	11.48	15.66	13.64
Maitland	12.27	10.88	15.58	13.46	9.79
John Hunter	19.27	17.95	14.93	16.55	18.25
Other hospitals	26.96	19.82	20.63	20.00	20.36
TOTAL	17.41	15.02	14.12	14.74	14.48

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Northern NSW					
Grafton Base	15.83	12.88	8.11	10.61	9.23
Lismore Base	6.43	6.70	8.33	5.33	6.55
Tweed Heads	10.31	7.74	10.20	12.11	7.23
Other hospitals	3.70	2.04	6.56	1.30	0.00
TOTAL	9.19	7.77	8.85	8.49	6.73
Mid North Coast					
Coffs Harbour	9.12	14.42	8.91	10.06	8.22
Kempsey	16.33	6.67	9.09	3.33	1.92
Port Macquarie Base	10.20	11.71	7.66	6.79	9.05
TOTAL	10.14	12.65	8.47	8.27	7.97
Southern NSW					
Bega	15.09	13.56	3.23	9.09	15.38
Goulburn Base	24.36	14.10	13.58	12.50	2.74
Moruya	17.20	16.28	9.88	5.68	8.96
Queanbeyan	16.36	13.43	11.84	8.91	12.04
Other hospitals	4.88	10.81	10.00	8.00	2.22
TOTAL	16.88	14.07	10.00	8.83	8.70
Murrumbidgee					
Griffith Base	12.15	8.73	11.67	10.12	6.02
Wagga Wagga Base	5.68	6.45	7.58	11.57	6.84
Other hospitals	10.95	10.88	5.95	5.77	7.69
TOTAL	8.94	8.47	7.95	9.54	6.86
Western NSW					
Dubbo Base	20.77	23.78	22.67	17.91	18.42
Mudgee	10.42	12.31	9.52	5.08	7.94
Bathurst Base	14.97	13.25	9.23	9.47	13.51
Orange Base	16.96	13.71	14.08	16.78	11.21
Other hospitals	24.63	14.81	20.59	19.01	10.00
TOTAL	18.55	16.95	16.72	15.46	13.43
Far West					
Broken Hill Base	13.10	13.33	16.67	12.50	14.52
TOTAL	13.10	13.33	16.67	12.50	14.52
Private Hospitals					
Mater, North Sydney	2.85	2.57	2.79	2.44	2.25
North Shore Private	2.73	3.16	2.68	1.89	1.28
Sydney Adventist	3.77	4.37	3.66	3.71	6.34
North Gosford Private	18.88	19.83	3.41	2.17	3.95
Hurstville Community	3.90	4.19	6.00	3.92	4.22
Kareena Private	2.60	3.15	3.49	2.76	1.76
St. George Private	4.87	4.49	4.91	4.07	3.23
Prince of Wales Private	25.46	29.95	0.88	1.00	0.67
Norwest Private	12.57	20.07	7.96	6.73	6.92
Sydney Southwest Private	4.53	5.67	7.00	3.80	4.26
Nepean Private	6.11	5.45	5.17	7.46	5.12
Westmead Private	6.30	6.35	6.83	2.03	3.24
Figtree Private	5.29	4.35	2.83	4.51	3.35
Newcastle Private	3.03	4.63	3.18	1.48	2.07
Calvary, Wagga Wagga	5.02	5.14	6.19	2.95	4.02
Other hospitals	10.34	8.89	9.73	4.17	8.57
TOTAL	7.49	8.89	4.06	2.97	3.10
TOTAL NSW*	11.40	11.47	9.03	8.45	7.97

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

Hospitals with more than 200 births in 2013 are identified individually

* Total NSW includes births at home assisted by independent midwives

Postpartum haemorrhage and blood transfusion

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 68 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 68: 7.1 POSTPARTUM HAEMORRHAGE AND BLOOD TRANSFUSION FOLLOWING VAGINAL BIRTH BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013*

Local Health District–Hospital	2008	2009	2010	2011	2012
	%	%	%	%	%
Sydney					
Canterbury	0.24	0.24	1.36	1.23	1.68
Royal Prince Alfred	0.17	0.11	0.91	0.79	1.10
TOTAL	0.19	0.15	1.03	0.90	1.26
South Western Sydney					
Fairfield	0.39	0.13	1.26	0.43	0.48
Liverpool	0.26	0.39	0.82	0.78	0.69
Campbelltown	0.25	0.05	0.95	0.71	1.00
Bankstown-Lidcombe	0.58	0.24	1.05	0.86	1.10
Bowral	0.94	0.43	0.51	0.55	0.00
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	0.39	0.23	0.97	0.70	0.79
South Eastern Sydney					
St. George	0.32	1.45	1.40	1.64	1.54
Sutherland	0.40	1.12	1.22	0.89	2.13
Royal Hospital for Women	0.79	2.16	2.22	1.83	1.54
TOTAL	0.56	1.73	1.78	1.61	1.65
Illawarra Shoalhaven					
Shoalhaven	0.33	1.50	2.16	1.98	1.95
Wollongong	0.67	2.06	1.23	0.98	1.86
Other hospitals	0.00	3.92	0.00	2.11	1.27
TOTAL	0.57	2.00	1.40	1.27	1.86
Western Sydney					
Auburn	0.74	1.33	1.59	0.68	0.76
Blacktown	0.38	1.50	1.86	1.13	0.74
Westmead	0.34	1.36	1.64	1.64	2.20
TOTAL	0.42	1.40	1.70	1.32	1.53
Nepean Blue Mountains					
Blue Mountains	1.76	0.66	0.00	1.20	3.01
Nepean	0.44	1.67	1.21	1.32	1.65
Hawkesbury	0.51	1.16	0.91	1.01	0.98
Lithgow	3.88	1.65	7.03	6.25	1.76
TOTAL	0.65	1.54	1.33	1.47	1.62
Northern Sydney					
Hornsby	1.30	1.20	1.53	1.19	0.86
Manly	0.74	1.29	1.70	1.03	1.98
Mona Vale	0.00	0.00	0.00	0.92	2.04
Royal North Shore	0.61	0.99	1.96	0.98	1.27
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	0.75	1.10	1.71	1.01	1.36
Central Coast					
Gosford	0.49	1.33	1.18	0.93	1.01
Other hospitals	0.43	1.14	0.60	0.57	1.19
TOTAL	0.48	1.31	1.13	0.89	1.02
Hunter New England					
Armidale	0.30	1.27	1.32	1.60	0.32
Inverell	0.57	2.94	1.04	1.16	2.59
Tamworth Base	0.80	2.06	1.71	1.39	1.44
Manning Base	0.72	0.38	2.68	1.36	2.54
Maitland	0.09	1.27	1.24	2.12	1.71
John Hunter	0.54	1.87	2.02	1.82	2.23
Other hospitals	0.58	0.92	1.04	1.16	0.95
TOTAL	0.50	1.51	1.70	1.66	1.82

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Northern NSW					
Grafton Base	3.68	1.80	2.82	0.96	1.54
Lismore Base	3.28	3.12	1.69	0.98	1.66
Tweed Heads	3.43	2.68	1.82	1.39	1.69
Other hospitals	1.99	2.23	0.66	0.91	1.15
TOTAL	3.23	2.67	1.77	1.15	1.61
Mid North Coast					
Coffs Harbour	2.07	1.19	1.82	2.09	0.69
Kempsey	3.11	2.47	1.23	2.97	2.50
Port Macquarie Base	2.21	3.25	0.68	2.60	1.33
Other hospitals	3.92	1.82	0.00	1.64	0.00
TOTAL	2.34	2.15	1.27	2.38	1.14
Southern NSW					
Bega	3.95	2.25	0.53	1.80	1.23
Goulburn Base	2.68	3.35	1.30	0.80	0.00
Moruya	3.88	1.57	3.13	3.32	1.31
Queanbeyan	5.91	6.27	1.03	3.36	4.04
Other hospitals	4.58	2.10	3.57	2.42	0.00
TOTAL	4.22	3.27	1.77	2.44	1.72
Murrumbidgee					
Griffith Base	7.26	2.70	2.33	0.85	2.58
Wagga Wagga Base	1.52	1.51	0.99	1.22	2.04
Other hospitals	3.93	3.49	6.24	5.34	1.32
TOTAL	3.75	2.63	3.33	2.60	1.94
Western NSW					
Dubbo Base	2.19	0.87	1.01	1.33	1.91
Mudgee	3.35	1.17	1.18	1.98	0.00
Bathurst Base	4.58	1.63	2.80	2.80	1.92
Orange Base	1.84	0.82	1.37	2.03	1.65
Other hospitals	3.42	2.12	2.60	2.69	0.84
TOTAL	2.77	1.20	1.64	2.00	1.55
Far West					
Broken Hill Base	4.55	2.42	1.32	2.87	3.73
TOTAL	4.55	2.42	1.32	2.87	3.73
Private Hospitals					
Mater, North Sydney	1.92	1.27	1.34	2.04	2.32
North Shore Private	0.21	0.21	0.30	0.55	0.41
Sydney Adventist	3.65	3.09	2.98	1.71	2.80
North Gosford Private	2.70	1.75	3.82	3.48	2.10
Hurstville Community	1.63	2.30	1.61	2.00	1.68
Kareena Private	0.53	0.29	0.72	0.24	0.23
St. George Private	0.70	0.22	0.11	0.32	0.21
Prince of Wales Private	2.12	1.75	1.79	1.73	2.21
Norwest Private	1.36	1.79	1.39	2.21	1.74
Sydney Southwest Private	0.69	1.24	0.96	1.60	2.45
Nepean Private	1.40	0.92	1.69	2.15	2.48
Westmead Private	0.46	0.46	0.45	0.39	0.39
Figtree Private	0.16	0.31	0.34	0.00	0.00
Newcastle Private	0.33	0.17	0.17	0.24	0.86
Calvary, Wagga Wagga	1.55	2.11	1.35	0.70	2.35
Other hospitals	0.00	2.48	0.72	0.85	0.00
TOTAL	1.29	1.19	1.17	1.25	1.44
TOTAL NSW*	1.04	1.30	1.44	1.33	1.45

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

Hospitals with more than 200 births in 2013 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 69 shows information for hospitals where at least 200 mothers gave birth in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 69: 7.2 POSTPARTUM HAEMORRHAGE AND BLOOD TRANSFUSION FOLLOWING CAESAREAN SECTION BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013*

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Sydney					
Canterbury	0.00	0.00	0.96	1.02	1.89
Royal Prince Alfred	0.06	0.12	0.45	0.83	1.47
TOTAL	0.05	0.10	0.55	0.88	1.57
South Western Sydney					
Fairfield	0.55	0.58	0.61	0.77	1.61
Liverpool	0.78	0.29	1.46	1.16	0.62
Campbelltown	0.30	0.15	0.73	0.76	0.41
Bankstown-Lidcombe	0.67	0.44	1.13	0.80	1.16
Bowral	0.00	0.95	0.00	0.00	0.00
TOTAL	0.54	0.35	0.99	0.87	0.79
South Eastern Sydney					
St. George	0.81	3.31	1.54	0.72	2.94
Sutherland	0.72	1.44	1.10	1.40	1.66
Royal Hospital for Women	0.99	2.09	2.68	1.90	2.16
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	0.91	2.37	2.14	1.45	2.33
Illawarra Shoalhaven					
Shoalhaven	0.75	3.17	2.45	3.25	3.83
Wollongong	0.93	2.16	1.55	1.55	2.99
Other hospitals	8.33	0.00	3.70	0.00	5.88
TOTAL	0.98	2.46	1.90	1.99	3.28
Western Sydney					
Auburn	1.90	1.45	1.80	3.40	3.01
Blacktown	0.85	1.36	1.24	1.47	0.91
Westmead	0.97	1.59	1.85	2.82	2.54
TOTAL	1.03	1.50	1.65	2.44	2.05
Nepean Blue Mountains					
Blue Mountains	1.33	1.67	0.00	1.92	3.33
Nepean	0.93	1.65	2.13	2.23	3.41
Hawkesbury	0.74	1.81	1.84	2.58	1.36
Lithgow	3.33	3.17	2.94	2.04	3.28
TOTAL	1.02	1.75	2.05	2.28	3.04
Northern Sydney					
Hornsby	1.92	2.77	2.55	1.68	2.02
Manly	1.23	1.67	3.12	0.70	2.29
Mona Vale	2.30	0.00	0.00	1.92	0.00
Royal North Shore	1.20	2.01	2.66	1.71	1.68
Other hospitals	0.00	0.00	0.00	100.00	0.00
TOTAL	1.42	2.11	2.73	1.59	1.69
Central Coast					
Gosford	1.41	2.14	1.65	1.98	1.11
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	1.41	2.14	1.65	1.98	1.11
Hunter New England					
Armidale	1.85	1.80	0.79	0.67	0.77
Inverell	0.00	1.09	2.11	5.62	4.26
Tamworth Base	0.47	1.75	1.90	2.49	2.46
Manning Base	1.51	2.53	1.64	1.20	1.30
Maitland	1.14	1.23	2.30	2.90	3.73
John Hunter	0.75	3.01	2.47	4.20	4.58
Other hospitals	2.45	0.92	2.24	3.56	0.90
TOTAL	1.06	2.15	2.21	3.38	3.46

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Northern NSW					
Grafton Base	0.72	2.27	0.90	6.82	2.31
Lismore Base	0.80	1.12	1.11	0.94	2.98
Tweed Heads	1.39	4.95	1.64	1.41	2.71
Other hospitals	1.85	0.00	1.64	0.00	0.00
TOTAL	1.08	2.67	1.32	1.93	2.55
Mid North Coast					
Coffs Harbour	1.95	2.56	1.95	0.86	0.57
Kempsey	2.04	5.00	1.82	5.00	5.77
Port Macquarie Base	1.53	1.95	2.55	1.36	3.33
TOTAL	1.81	2.60	2.16	1.43	1.95
Southern NSW					
Bega	0.00	0.00	0.00	4.55	1.92
Goulburn Base	2.56	0.00	0.00	3.75	0.00
Moruya	4.30	1.16	3.70	5.68	1.49
Queanbeyan	10.91	2.99	5.26	5.94	8.33
Other hospitals	0.00	2.70	0.00	2.00	0.00
TOTAL	3.75	1.22	2.06	4.68	3.19
Murrumbidgee					
Griffith Base	5.61	3.97	3.33	2.38	0.75
Wagga Wagga Base	3.49	0.81	1.01	0.83	3.85
Other hospitals	7.96	1.04	4.86	5.13	4.90
TOTAL	5.59	1.59	2.98	2.47	3.33
Western NSW					
Dubbo Base	0.35	1.40	0.67	4.18	2.30
Mudgee	8.33	1.54	1.59	0.00	1.59
Bathurst Base	4.79	1.20	3.08	4.14	1.35
Orange Base	0.69	1.21	2.11	1.75	1.15
Other hospitals	2.99	1.85	2.94	2.48	2.50
TOTAL	2.06	1.37	1.82	2.99	1.73
Far West					
Broken Hill Base	2.38	0.00	1.52	3.75	0.00
TOTAL	2.38	0.00	1.52	3.75	0.00
Private Hospitals					
Mater, North Sydney	1.26	1.15	0.87	0.93	0.87
North Shore Private	0.34	0.24	0.08	0.00	0.18
Sydney Adventist	0.13	0.53	0.65	0.37	0.43
North Gosford Private	0.00	1.10	1.57	1.63	1.13
Hurstville Community	0.24	0.79	1.25	1.31	0.90
Kareena Private	0.32	0.70	2.03	0.83	0.00
St. George Private	0.24	0.40	0.42	0.38	0.26
Prince of Wales Private	1.01	1.03	1.15	1.28	2.07
Norwest Private	0.29	0.74	0.35	1.02	0.85
Sydney Southwest Private	0.60	0.30	0.29	1.36	0.00
Nepean Private	2.22	0.30	0.57	1.10	2.70
Westmead Private	0.71	0.25	0.33	0.21	0.31
Figtree Private	0.50	1.02	1.03	1.43	0.26
Newcastle Private	0.00	0.42	0.00	0.12	0.83
Calvary, Wagga Wagga	2.51	2.80	2.38	0.84	0.40
Other hospitals	0.86	3.33	1.77	1.04	0.00
TOTAL	0.64	0.71	0.71	0.74	0.80
TOTAL NSW*	0.99	1.31	1.42	1.58	1.72

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

Hospitals with more than 200 births in 2013 are identified individually

* Total NSW includes births at home assisted by independent midwives

Intrauterine growth restriction

Indicator 8.1

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

Table 70 shows information for hospitals where at least 200 babies were born in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 70: 8.1 INTRAUTERINE GROWTH RESTRICTION AT 40 WEEKS GESTATION OR MORE BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013[#]

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Sydney					
Canterbury	2.04	2.64	3.42	1.86	1.38
Royal Prince Alfred	1.38	1.38	1.22	1.39	1.36
TOTAL	1.55	1.69	1.75	1.50	1.36
South Western Sydney					
Fairfield	2.12	2.31	1.52	1.82	2.45
Liverpool	2.20	3.27	2.23	2.57	1.99
Campbelltown	1.41	1.10	1.60	1.15	1.46
Bankstown-Lidcombe	2.70	2.13	2.48	2.41	1.17
Bowral	1.67	1.99	1.95	1.40	0.51
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	2.04	2.20	1.98	1.95	1.67
South Eastern Sydney					
St. George	2.01	2.17	2.33	2.75	2.12
Sutherland	0.83	0.71	1.27	2.62	0.88
Royal Hospital for Women	1.45	1.61	1.83	1.23	1.20
TOTAL	1.51	1.64	1.89	1.97	1.42
Illawarra Shoalhaven					
Shoalhaven	1.01	1.87	1.49	1.58	1.52
Wollongong	1.12	1.26	1.05	0.83	1.16
Other hospitals	0.00	1.64	1.72	0.00	0.00
TOTAL	1.04	1.45	1.20	1.01	1.23
Western Sydney					
Auburn	2.04	1.30	1.67	2.09	2.10
Blacktown	1.80	2.16	2.11	1.60	1.52
Westmead	2.75	1.87	2.76	2.51	2.53
TOTAL	2.30	1.88	2.38	2.14	2.15
Nepean Blue Mountains					
Blue Mountains	0.88	0.92	1.85	0.00	0.83
Nepean	1.34	1.32	1.93	0.66	1.53
Hawkesbury	1.10	1.78	2.07	1.02	0.96
Lithgow	5.80	2.99	5.33	3.33	4.23
TOTAL	1.42	1.43	2.08	0.78	1.49
Northern Sydney					
Hornsby	0.80	2.18	1.81	2.08	1.04
Manly	0.51	1.32	0.65	1.01	0.90
Mona Vale	0.68	0.00	0.00	2.30	1.02
Royal North Shore	1.73	1.42	2.23	2.14	1.92
Other hospitals	0.00	1.67	0.00	0.00	0.00
TOTAL	1.06	1.58	1.63	1.78	1.35
Central Coast					
Gosford	1.00	1.02	1.12	1.15	1.58
Other hospitals	1.34	0.00	1.18	0.00	0.00
TOTAL	1.04	0.94	1.12	1.06	1.47
Hunter New England					
Armidale	2.35	3.91	0.50	3.19	1.65
Inverell	5.08	3.23	4.29	1.52	1.10
Tamworth Base	2.71	2.59	3.35	3.08	2.56
Manning Base	2.48	2.20	1.63	1.27	1.88
Maitland	1.62	1.67	1.15	1.85	1.47
John Hunter	1.77	1.27	1.46	1.86	1.74
Other hospitals	1.42	1.83	2.06	2.13	1.61
TOTAL	1.90	1.80	1.69	2.02	1.74
Northern NSW					
Grafton Base	1.19	1.75	1.76	1.04	1.49
Lismore Base	1.39	0.78	2.00	0.99	1.28
Tweed Heads	1.51	1.75	1.20	1.56	0.79
Other hospitals	2.77	1.70	2.42	0.46	1.27
TOTAL	1.58	1.42	1.68	1.18	1.08
Mid North Coast					
Coffs Harbour	0.89	1.54	1.01	1.34	2.55
Kempsey	2.63	1.97	0.79	1.87	0.97
Port Macquarie Base	2.12	1.88	1.36	0.93	1.60
Other hospitals	3.13	5.13	3.45	0.00	0.00
TOTAL	1.63	1.86	1.18	1.21	1.91
Southern NSW					
Bega	0.64	3.08	2.21	1.01	0.00
Goulburn Base	1.79	3.28	0.62	1.71	2.61
Moruya	2.96	1.55	2.47	2.78	2.01
Queanbeyan	2.66	2.46	0.51	0.43	2.37
Other hospitals	2.73	4.21	3.26	0.00	4.41
TOTAL	2.15	2.73	1.60	1.29	2.23
Murrumbidgee					
Griffith Base	2.29	1.94	1.09	1.93	1.55
Wagga Wagga Base	1.65	2.88	2.81	2.16	2.41
Other hospitals	1.71	1.62	1.48	2.04	1.67
TOTAL	1.81	2.07	1.83	2.05	1.89
Western NSW					
Dubbo Base	2.31	2.65	1.06	2.94	2.57
Mudgee	1.47	0.88	2.94	0.74	1.75
Bathurst Base	2.73	1.57	2.69	2.58	1.76
Orange Base	2.10	3.13	1.17	3.26	1.49
Other hospitals	3.90	1.90	1.86	1.83	0.53
TOTAL	2.56	2.28	1.65	2.57	1.78
Far West					
Broken Hill Base	6.40	0.93	2.74	1.15	5.26
TOTAL	6.40	0.93	2.74	1.15	5.26
Private Hospitals					
Mater, North Sydney	0.85	1.63	1.54	1.68	2.15
North Shore Private	2.30	1.43	1.82	1.39	1.62
Sydney Adventist	2.25	2.11	0.89	1.67	1.79
North Gosford Private	0.76	1.11	1.88	0.00	0.49
Hurstville Community	1.38	1.27	1.98	1.01	0.89
Kareena Private	1.72	0.00	0.00	0.62	2.20
St. George Private	1.63	0.97	3.60	0.62	2.12
Prince of Wales Private	1.30	2.22	1.66	1.62	1.79
Norwest Private	2.37	1.56	1.07	1.45	1.50
Sydney Southwest Private	1.24	1.86	1.91	1.14	3.00
Nepean Private	1.67	1.01	1.47	0.41	0.43
Westmead Private	1.60	2.70	2.51	1.49	2.03
Figtree Private	0.41	0.00	0.46	0.93	0.00
Newcastle Private	1.63	1.29	2.28	2.97	0.92
Calvary, Wagga Wagga	1.63	1.14	0.84	0.00	0.00
Other hospitals	0.99	1.05	1.02	2.90	0.00
TOTAL	1.60	1.59	1.72	1.49	1.61
TOTAL NSW*	1.72	1.74	1.78	1.68	1.62

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

[#] Hospitals with more than 200 births in 2013 are identified individually

* 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 71 shows information for hospitals where at least 200 babies were born in 2013, totals for hospitals for each local health district, and the NSW total.

TABLE 71: 9.1 APGAR SCORE OF 7 OR LESS IN TERM BABIES BY LOCAL HEALTH DISTRICT AND HOSPITAL, NSW 2009–2013[#]

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Sydney					
Canterbury	0.86	1.62	1.69	0.92	1.52
Royal Prince Alfred	1.64	1.32	1.86	1.69	2.01
TOTAL	1.43	1.39	1.82	1.50	1.88
South Western Sydney					
Fairfield	2.01	0.39	1.54	1.00	0.97
Liverpool	0.79	0.80	0.75	1.52	1.46
Campbelltown	0.87	1.56	1.48	1.60	1.66
Bankstown-Lidcombe	0.73	0.65	0.68	0.65	0.54
Bowral	0.91	0.72	0.61	0.45	1.32
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	1.03	0.89	1.07	1.21	1.23
South Eastern Sydney					
St. George	0.60	1.20	1.20	1.26	1.70
Sutherland	0.82	1.15	1.08	1.38	2.75
Royal Hospital for Women	1.50	1.51	1.75	2.05	1.90
Other hospitals	0.00	0.00	0.00	0.00	0.00
TOTAL	1.09	1.34	1.46	1.68	1.99
Illawarra Shoalhaven					
Shoalhaven	0.86	0.73	1.16	1.36	1.09
Wollongong	1.17	1.82	1.18	1.51	1.85
Other hospitals	3.41	1.69	0.82	0.00	1.08
TOTAL	1.15	1.51	1.16	1.41	1.62
Western Sydney					
Auburn	1.32	0.47	0.77	0.43	1.10
Blacktown	0.76	1.55	0.84	0.72	0.66
Westmead	0.90	0.61	0.84	0.81	0.94
TOTAL	0.91	0.90	0.83	0.72	0.87
Nepean Blue Mountains					
Blue Mountains	3.00	2.38	0.52	0.95	0.45
Nepean	0.53	0.54	0.79	0.74	0.64
Hawkesbury	1.46	0.67	0.49	1.26	0.79
Lithgow	0.00	2.87	1.08	1.17	2.31
TOTAL	0.81	0.74	0.74	0.85	0.74
Northern Sydney					
Hornsby	1.90	1.14	0.52	1.62	1.41
Manly	1.00	0.97	1.15	0.82	1.38
Mona Vale	1.33	0.00	0.00	0.63	1.15
Royal North Shore	1.13	0.78	0.70	0.81	1.50
Other hospitals	0.00	0.86	0.00	0.74	0.78
TOTAL	1.27	0.93	0.76	1.00	1.40
Central Coast					
Gosford	2.60	1.99	2.59	2.40	2.31
Other hospitals	0.85	0.57	0.00	0.57	1.20
TOTAL	2.44	1.89	2.42	2.27	2.24
Hunter New England					
Armidale	1.23	0.25	1.24	1.16	1.68
Inverell	0.42	0.00	0.00	0.00	0.38
Tamworth Base	1.18	1.55	1.39	1.87	2.39
Manning Base	1.01	2.42	1.85	2.46	2.61
Maitland	1.91	1.75	1.27	1.49	1.49
John Hunter	2.39	2.56	2.28	2.30	2.17
Other hospitals	0.58	0.63	0.64	1.87	0.79
TOTAL	1.68	1.81	1.61	1.94	1.83

Local Health District–Hospital	2009	2010	2011	2012	2013
	%	%	%	%	%
Northern NSW					
Grafton Base	0.43	1.42	2.01	1.71	2.66
Lismore Base	1.14	1.15	0.74	1.58	1.57
Tweed Heads	1.28	1.08	1.45	1.92	1.82
Other hospitals	0.00	1.10	0.28	0.25	0.31
TOTAL	0.97	1.15	1.15	1.58	1.69
Mid North Coast					
Coffs Harbour	0.59	1.21	0.86	1.71	1.76
Kempsey	0.69	2.11	1.79	1.60	1.27
Port Macquarie Base	2.31	1.99	2.07	1.74	1.59
Other hospitals	2.04	0.00	0.00	0.00	0.00
TOTAL	1.24	1.58	1.39	1.66	1.59
Southern NSW					
Bega	0.37	1.72	0.84	1.82	1.46
Goulburn Base	0.69	1.09	1.05	1.90	1.09
Moruya	1.29	1.51	2.06	1.59	0.71
Queanbeyan	0.33	0.63	1.11	0.24	0.94
Other hospitals	0.00	0.58	0.00	1.19	1.97
TOTAL	0.59	1.13	1.11	1.25	1.12
Murrumbidgee					
Griffith Base	1.01	1.66	1.26	0.86	1.78
Wagga Wagga Base	1.44	1.70	2.81	1.92	2.75
Other hospitals	1.14	0.66	1.47	0.82	0.87
TOTAL	1.22	1.26	1.92	1.25	1.86
Western NSW					
Dubbo Base	1.51	1.26	0.90	1.15	1.67
Mudgee	0.90	0.44	0.89	0.40	1.27
Bathurst Base	1.30	1.04	1.41	1.50	1.64
Orange Base	1.35	1.02	1.84	1.13	1.31
Other hospitals	0.94	1.49	1.92	1.37	0.22
TOTAL	1.30	1.13	1.39	1.18	1.32
Far West					
Broken Hill Base	0.46	0.42	0.51	1.65	3.26
TOTAL	0.46	0.42	0.51	1.65	3.26
Private Hospitals					
Mater, North Sydney	0.38	0.68	0.51	0.39	0.30
North Shore Private	0.61	0.32	0.37	0.61	0.46
Sydney Adventist	0.23	0.35	0.42	0.95	0.94
North Gosford Private	0.13	0.55	0.80	0.66	0.40
Hurstville Community	0.77	0.88	0.67	0.68	1.00
Kareena Private	0.63	0.69	1.12	1.25	0.41
St. George Private	0.58	0.43	0.58	0.87	1.29
Prince of Wales Private	0.46	0.46	0.63	0.51	0.61
Norwest Private	0.17	0.00	0.37	0.37	0.57
Sydney Southwest Private	0.30	0.96	0.65	1.05	0.62
Nepean Private	0.34	0.24	0.12	0.00	0.39
Westmead Private	0.62	0.84	0.80	0.71	0.66
Figtree Private	0.31	0.71	0.43	0.74	0.55
Newcastle Private	0.33	0.50	0.28	0.56	0.56
Calvary, Wagga Wagga	0.51	1.24	1.65	1.04	0.93
Other hospitals	0.76	1.91	0.00	1.42	0.00
TOTAL	0.44	0.55	0.55	0.65	0.63
TOTAL NSW*	1.02	1.05	1.10	1.18	1.29

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

[#] Hospitals with more than 200 births in 2013 are identified individually

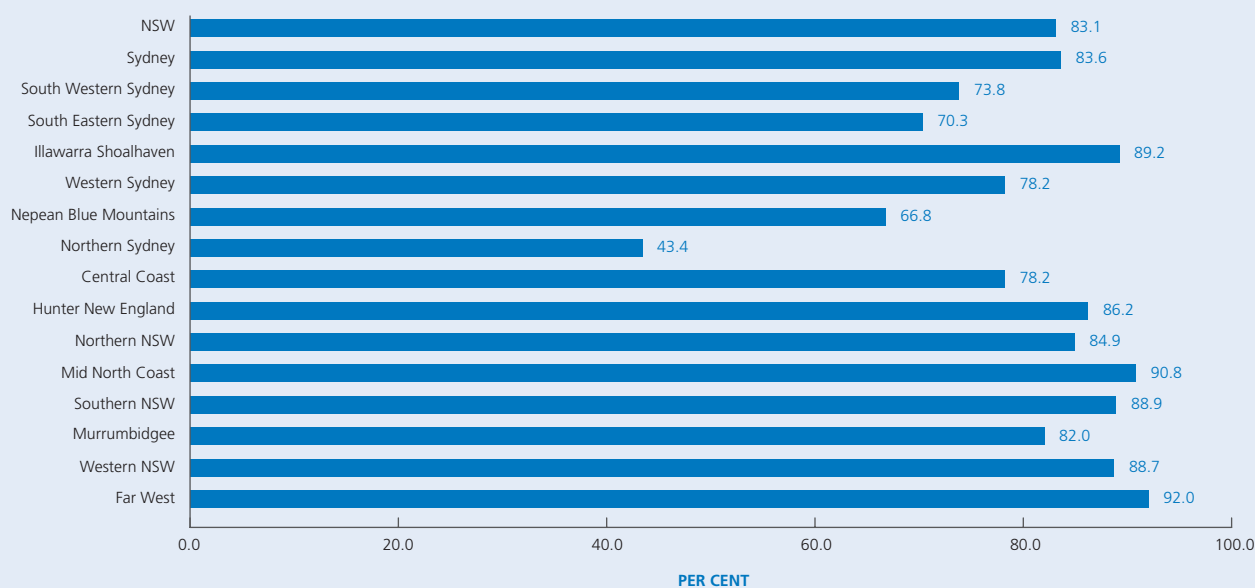
* Total NSW includes births at home assisted by independent midwives

8. ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS AND BABIES

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 and babies 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 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 births to Aboriginal or Torres Strait Islander mothers in NSW that were reported to the Perinatal Data Collection was 79.0% in 2010, 77.8% in 2011 and 83.1% in 2012. In 2012, reporting varied markedly between Local Health Districts, ranging from 43.4% in the Northern Sydney Local Health District to 92.0% in the Far West Local Health District, with reporting generally better in rural compared to urban areas (Table 72, Figure 2).

Figure 2: Estimated level of reporting of births to Aboriginal or Torres Strait Islander mothers by year of birth Local Health District of residence, NSW 2012



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

TABLE 72: BIRTHS TO ABORIGINAL OR TORRES STRAIT ISLANDER MOTHERS AND ESTIMATED LEVEL OF REPORTING BY YEAR OF BIRTH AND LOCAL HEALTH DISTRICT OF RESIDENCE 2010–2012[#]

Year of birth–Local health district	PDC births		Estimated Aboriginal births		Level of reporting
	No.	No.	No.	%	
2010					
Sydney	87		116		75.0
South Western Sydney	179		291		61.5
South Eastern Sydney	69		120		57.5
Illawarra Shoalhaven	192		218		88.1
Western Sydney	212		297		71.4
Nepean Blue Mountains	130		189		68.8
Northern Sydney	36		53		67.9
Central Coast	126		175		72.0
Hunter New England	815		985		82.7
Northern NSW	221		261		84.7
Mid North Coast	227		268		84.7
Southern NSW	86		101		85.1
Murrumbidgee	155		192		80.7
Western NSW	525		610		86.1
Far West	55		59		93.2
Other-not stated	23		25		290
NSW	3138		3970		79.0
2011					
Sydney	86		118		72.9
South Western Sydney	183		298		61.4
South Eastern Sydney	82		119		68.9
Illawarra Shoalhaven	210		252		83.3
Western Sydney	200		283		70.7
Nepean Blue Mountains	148		214		69.2
Northern Sydney	18		51		35.3
Central Coast	138		179		77.1
Hunter New England	746		895		83.4
Northern NSW	213		258		82.6
Mid North Coast	194		244		79.5
Southern NSW	72		86		83.7
Murrumbidgee	168		216		77.8
Western NSW	500		600		83.3
Far West	42		44		95.5
Other-not stated	20		23		264
NSW	3021		3881		77.8
2012					
Sydney	112		134		83.6
South Western Sydney	208		282		73.8
South Eastern Sydney	71		101		70.3
Illawarra Shoalhaven	215		241		89.2
Western Sydney	230		294		78.2
Nepean Blue Mountains	141		211		66.8
Northern Sydney	23		53		43.4
Central Coast	151		193		78.2
Hunter New England	882		1023		86.2
Northern NSW	225		265		84.9
Mid North Coast	228		251		90.8
Southern NSW	88		99		88.9
Murrumbidgee	150		183		82.0
Western NSW	607		684		88.7
Far West	46		50		92.0
Other-not stated	22		27		475
NSW	3399		4092		83.1

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
[#] Information for 2010 and 2011 differ slightly from those reported previously because the linkage has been updated.

The estimated percentage of Aboriginal or Torres Strait Islander babies born in NSW that were reported to the Perinatal Data Collection was 94.3% in 2012 (Table 73). Reporting ranged from 63.4% in South Western Sydney to 100% in South Eastern Sydney, Western Sydney, Northern Sydney, Northern NSW, Southern NSW and Far West NSW.

Numbers of Aboriginal mothers and babies 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 73: BIRTHS OF ABORIGINAL OR TORRES STRAIT ISLANDER BABIES AND ESTIMATED LEVEL OF REPORTING BY YEAR OF BIRTH AND LOCAL HEALTH DISTRICT OF RESIDENCE 2010–2012[#]

Year of birth–Local health district	PDC births	Estimated Aboriginal births	Level of reporting
	No.	No.	%
2011			
Sydney	95	124	76.6
South Western Sydney	190	306	62.1
South Eastern Sydney	120	134	89.6
Illawarra Shoalhaven	275	371	74.1
Western Sydney	292	348	83.9
Nepean Blue Mountains	226	287	78.7
Northern Sydney	58	42	100
Central Coast	199	254	78.3
Hunter New England	961	1224	78.5
Northern NSW	276	315	87.6
Mid North Coast	255	317	80.4
Southern NSW	103	112	92.0
Murrumbidgee	202	254	79.5
Western NSW	686	770	89.1
Far West	47	54	87.0
Other-not stated	31	33	293
NSW	4017	4946	81.2
2012			
Sydney	125	159	78.6
South Western Sydney	220	347	63.4
South Eastern Sydney	150	149	100
Illawarra Shoalhaven	350	365	95.9
Western Sydney	368	365	100
Nepean Blue Mountains	269	287	93.7
Northern Sydney	60	55	100
Central Coast	259	272	95.2
Hunter New England	1294	1389	93.2
Northern NSW	349	344	100
Mid North Coast	328	331	99.1
Southern NSW	131	130	100
Murrumbidgee	241	254	94.9
Western NSW	844	852	99.1
Far West	62	60	100
Other-not stated	55	54	467
NSW	5105	5413	94.3

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
[#] The first complete year of data about Aboriginal babies is available for babies born in 2012.

Trends in births

Between 2009 and 2013, the number of reported births to Aboriginal or Torres Strait Islander mothers rose from 2,931 to 3,542, representing 3.0% and 3.7% respectively of all babies born in NSW. In 2013, 3,406 babies were born to Aboriginal mothers, 55 babies were born to Torres Strait Islander mothers and 81 babies were born to mothers of both Aboriginal and Torres Strait Islander background (Table 74).

TABLE 74: ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS AND BABIES, NSW 2009–2013[#]

Aboriginal and Torres Strait Islander	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Confinements										
Aboriginal but not Torres Strait Islander	2757	94.9	2947	95.4	2842	95.5	3218	96.1	3359	96.2
Torres Strait Islander but not Aboriginal	45	1.5	53	1.7	49	1.6	49	1.5	53	1.5
Both Aboriginal and Torres Strait Islander	102	3.5	90	2.9	84	2.8	81	2.4	80	2.3
TOTAL	2904	100.0	3090	100.0	2975	100.0	3348	100.0	3492	100.0
Births										
Aboriginal but not Torres Strait Islander	2784	95.0	2994	95.4	2883	95.4	3269	96.2	3406	96.2
Torres Strait Islander but not Aboriginal	45	1.5	53	1.7	51	1.7	49	1.4	55	1.6
Both Aboriginal and Torres Strait Islander	102	3.5	91	2.9	87	2.9	81	2.4	81	2.3
TOTAL	2931	100.0	3138	100.0	3021	100.0	3399	100.0	3542	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies to the PDC, it is likely that the true numbers of mothers and babies are higher than shown (Table 72 and 73).

Plurality

Between 2009 and 2013, multiple pregnancies (twins, triplets etc.) were reported for about 1.4% of all pregnancies. In 2013, 2.8% of babies born to Aboriginal or Torres Strait Islander mothers were twins (Table 75).

TABLE 75: ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS AND BABIES BY PLURALITY, NSW 2009–2013[#]

Plurality	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Confinements										
Singleton	2877	99.1	3043	98.5	2927	98.4	3298	98.5	3442	98.6
Twins	27	0.9	46	1.5	48	1.6	49	1.5	50	1.4
Triplets	0	0.0	1	0.0	0	0.0	1	0.0	0	0.0
TOTAL	2904	100.0	3090	100.0	2975	100.0	3348	100.0	3492	100.0
Births										
Singleton	2877	98.2	3043	97.0	2927	96.9	3298	97.0	3442	97.2
Twins	54	1.8	92	2.9	94	3.1	98	2.9	100	2.8
Triplets	0	0.0	3	0.1	0	0.0	3	0.1	0	0.0
TOTAL	2931	100.0	3138	100.0	3021	100.0	3399	100.0	3542	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 72 and 73).

Previous pregnancies

In 2013, just over one-third of Aboriginal or Torres Strait Islander mothers gave birth for the first time (Table 76), 57.8% of mothers reported between one and four previous births and 6.8% of mothers had previously given birth to 5 or more babies. Since 2009, there has been a slight increase in the percentage of first time pregnancies, and a concurrent decrease in the percentage of mothers who had previously given birth to 5 or more babies.

TABLE 76: PREVIOUS PREGNANCIES AMONG ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2009–2013[#]

No. previous pregnancies (>20 weeks gestation)	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
0	1000	34.4	1062	34.4	1085	36.5	1156	34.5	1235	35.4
1–4	1677	57.7	1768	57.2	1658	55.7	1981	59.2	2019	57.8
5+	227	7.8	260	8.4	228	7.7	211	6.3	237	6.8
Not stated	0	0.0	0	0.0	4	0.1	0	0.0	1	0.0
TOTAL	2904	100.0	3090	100.0	2975	100.0	3348	100.0	3492	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 72).

Maternal age

The reported number of Aboriginal or Torres Strait Islander mothers giving birth has increased for all ages. The percentage of Aboriginal or Torres Strait Islander mothers who were teenagers fell from 18.9% in 2009 to 17.6% in 2013. The percentage of mothers giving birth at 35 years of age or more has decreased from 9.7% in 2009 to 9.5% in 2013 (Table 77).

TABLE 77: AGE OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2009–2013[#]

Maternal age (years)	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
12–19	549	18.9	576	18.6	565	19.0	623	18.6	615	17.6
20–34	2074	71.4	2223	71.9	2154	72.4	2451	73.2	2546	72.9
35+	281	9.7	291	9.4	256	8.6	272	8.1	331	9.5
Not stated	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0
TOTAL	2904	100.0	3090	100.0	2975	100.0	3348	100.0	3492	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 72).

Local Health District of residence

Between 2009 and 2013, the reported number of Aboriginal or Torres Strait Islander mothers rose in most Local Health Districts. The reported number of Aboriginal or Torres Strait Islander mothers who gave birth in 2013 ranged from 28 in the Northern Sydney Local Health District to 893 in the Hunter New England Local Health District (Table 78). The proportion of Aboriginal or Torres Strait Islander mothers who were teenagers varied from 8.9% in the Sydney Local Health District to 21.1% in the Illawarra Shoalhaven Local Health District (Table 79).

TABLE 78: LOCAL HEALTH DISTRICT OF RESIDENCE OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2009–2013[#]

Local Health District	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	105	3.6	87	2.8	84	2.8	109	3.3	90	2.6
South Western Sydney	170	5.9	176	5.7	180	6.1	208	6.2	199	5.7
South Eastern Sydney	64	2.2	69	2.2	81	2.7	70	2.1	92	2.6
Illawarra Shoalhaven	170	5.9	188	6.1	203	6.8	213	6.4	227	6.5
Western Sydney	203	7.0	209	6.8	197	6.6	226	6.8	256	7.3
Nepean Blue Mountains	113	3.9	126	4.1	145	4.9	141	4.2	193	5.5
Northern Sydney	28	1.0	36	1.2	18	0.6	23	0.7	28	0.8
Central Coast	110	3.8	125	4.0	137	4.6	148	4.4	188	5.4
Hunter New England	654	22.5	806	26.1	734	24.7	867	25.9	893	25.6
Northern NSW	203	7.0	213	6.9	210	7.1	222	6.6	257	7.4
Mid North Coast	234	8.1	223	7.2	190	6.4	224	6.7	228	6.5
Southern NSW	68	2.3	86	2.8	72	2.4	88	2.6	64	1.8
Murrumbidgee	156	5.4	155	5.0	167	5.6	149	4.5	160	4.6
Western NSW	553	19.0	514	16.6	494	16.6	592	17.7	548	15.7
Far West	35	1.2	54	1.7	42	1.4	46	1.4	46	1.3
Other—not stated	38	1.3	23	0.7	21	0.7	22	0.7	23	0.7
TOTAL	2904	100.0	3090	100.0	2975	100.0	3348	100.0	3492	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies 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 72).

TABLE 79: LOCAL HEALTH DISTRICT OF RESIDENCE OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY AGE, NSW 2013[#]

Local Health District	Maternal age (Years)					
	Under 20		20-plus		TOTAL	
	No.	%	No.	%	No.	%
Sydney	8	8.9	82	91.1	90	100.0
South Western Sydney	30	15.1	169	84.9	199	100.0
South Eastern Sydney	11	12.0	81	88.0	92	100.0
Illawarra Shoalhaven	48	21.1	179	78.9	227	100.0
Western Sydney	46	18.0	210	82.0	256	100.0
Nepean Blue Mountains	25	13.0	168	87.0	193	100.0
Northern Sydney	-	-	-	-	28	100.0
Central Coast	24	12.8	164	87.2	188	100.0
Hunter New England	156	17.5	737	82.5	893	100.0
Northern NSW	48	18.7	209	81.3	257	100.0
Mid North Coast	47	20.6	181	79.4	228	100.0
Southern NSW	11	17.2	53	82.8	64	100.0
Murrumbidgee	33	20.6	127	79.4	160	100.0
Western NSW	112	20.4	436	79.6	548	100.0
Far West	8	17.4	38	82.6	46	100.0
Other-not stated	-	-	-	-	23	100.0
TOTAL	615	17.6	2877	82.4	3492	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
[#] Due to under-reporting of Aboriginal mothers and babies 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 72). Data not shown for cell counts less than five.

Duration of pregnancy at first antenatal visit

Between 2009 and 2010, the proportion of Aboriginal or Torres Strait Islander mothers who commenced antenatal care at less than 14 weeks gestation rose from 69.2% to 71.3%, and the proportion that commenced antenatal care at less than 20 weeks gestation rose from 83.4% to 84% (Table 80).

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 and resulted in a substantial decrease in the reported proportion of mothers who commenced antenatal care before 14 weeks gestation between 2010 and 2011.

In 2013, 49.8% of Aboriginal or Torres Strait Islander mothers attended antenatal care at less than 14 weeks and 72.7% attended at less than 20 weeks gestation. This compares with 60.4% of non-Aboriginal or Torres Strait Islander mothers who commenced antenatal care at less than 14 weeks gestation, and 84.4% who commenced antenatal care at less than 20 weeks gestation in 2013.

In 2013, the proportion of Aboriginal or Torres Strait Islander mothers who commenced antenatal care at less than 14 weeks gestation varied from 17.2% in the Illawarra Shoalhaven Local Health District to 70.2% in the Mid North Coast Local Health District (Table 81).

TABLE 80: DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT AMONG ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2009–2013[#]

Duration of pregnancy (weeks)	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
0–13	2011	69.2	2204	71.3	1822	61.2	1707	51.0	1740	49.8
14–19	410	14.1	396	12.8	467	15.7	703	21.0	798	22.9
20-plus	428	14.7	426	13.8	612	20.6	879	26.3	915	26.2
Not stated	55	1.9	64	2.1	74	2.5	59	1.8	39	1.1
TOTAL	2904	100.0	3090	100.0	2975	100.0	3348	100.0	3492	100.0

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
[#] Due to under-reporting of Aboriginal mothers and babies to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 72).

TABLE 81: DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT AMONG ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013*

Local Health District	Duration of pregnancy at first antenatal visit (weeks)									
	0–13		14–19		20-plus		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	42	46.7	27	30.0	20	22.2	1	1.1	90	100.0
South Western Sydney	96	48.2	57	28.6	45	22.6	1	0.5	199	100.0
South Eastern Sydney	46	50.0	32	34.8	14	15.2	0	0.0	92	100.0
Illawarra Shoalhaven	39	17.2	69	30.4	117	51.5	2	0.9	227	100.0
Western Sydney	102	39.8	79	30.9	73	28.5	2	0.8	256	100.0
Nepean Blue Mountains	87	45.1	56	29.0	50	25.9	0	0.0	193	100.0
Northern Sydney	10	35.7	14	50.0	-	-	-	-	28	100.0
Central Coast	62	33.0	68	36.2	57	30.3	1	0.5	188	100.0
Hunter New England	451	50.5	195	21.8	232	26.0	15	1.7	893	100.0
Northern NSW	177	68.9	37	14.4	39	15.2	4	1.6	257	100.0
Mid North Coast	160	70.2	29	12.7	37	16.2	2	0.9	228	100.0
Southern NSW	19	29.7	18	28.1	27	42.2	0	0.0	64	100.0
Murrumbidgee	75	46.9	27	16.9	57	35.6	1	0.6	160	100.0
Western NSW	328	59.9	80	14.6	130	23.7	10	1.8	548	100.0
Far West	30	65.2	7	15.2	9	19.6	0	0.0	46	100.0
Other-not stated	16	69.6	-	-	-	-	0	0.0	23	100.0
TOTAL	1740	49.8	798	22.9	915	26.2	39	1.1	3492	100.0

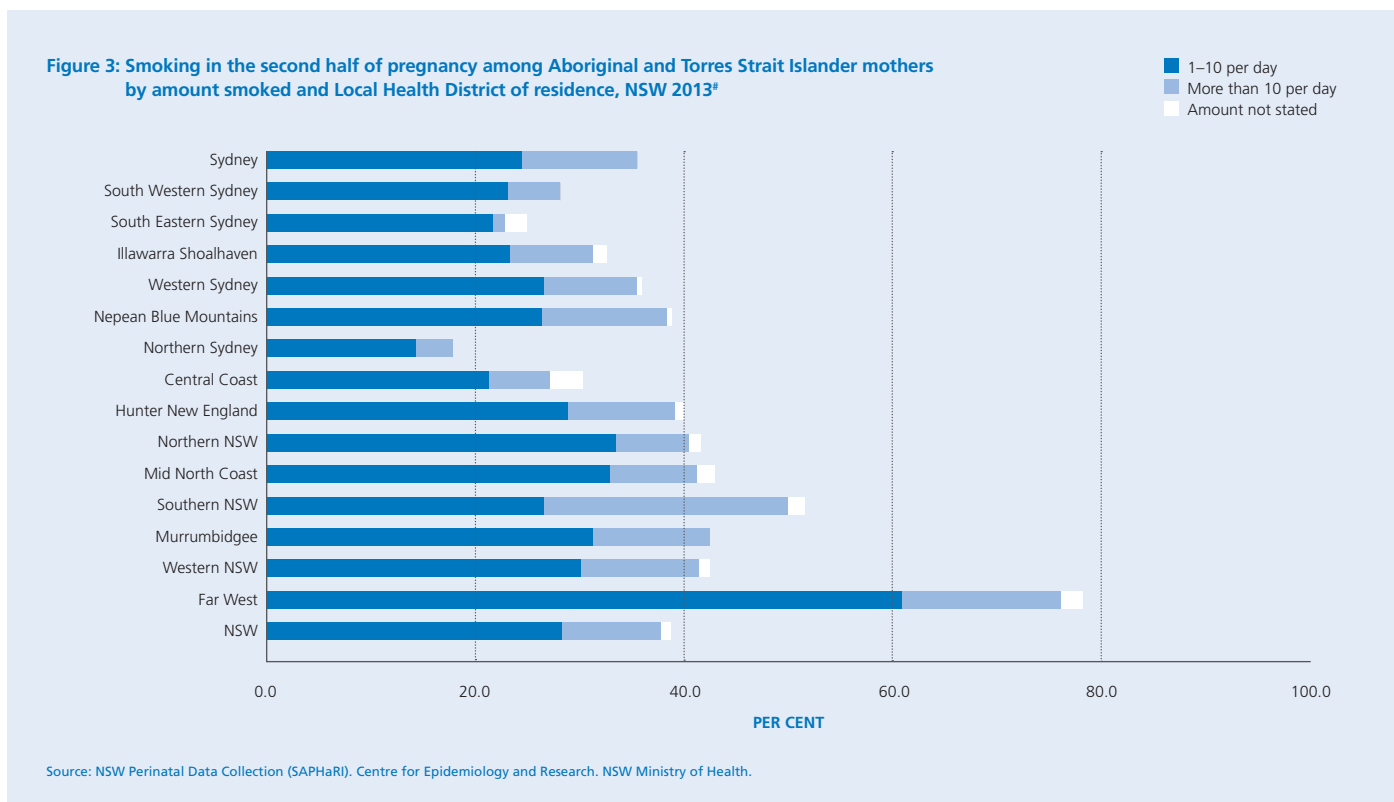
Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Due to under-reporting of Aboriginal mothers and babies 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 72). Data not shown for cell counts less than five.

Smoking in pregnancy

In 2013, 46.6% of Aboriginal or Torres Strait Islander mothers reported smoking at some time during pregnancy, compared to 50.5% in 2009. This compares with 8.3% of non-Aboriginal or Torres Strait Islander mothers who reported smoking at some time during pregnancy in 2013.

Smoking in the second half of pregnancy poses the greatest risk to the health of both mother and baby. In 2013, 38.9% of Aboriginal or Torres Strait Islander mothers reported smoking in the second half of pregnancy. This percentage varied from 17.9% in the Northern Sydney Local Health District to 78.3% in the Far West Local Health District (Figure 3).



Medical conditions and obstetric complications

In 2013, there were similar rates of diabetes mellitus and chronic hypertension reported among Aboriginal and Torres Strait Islander mothers compared with non-Aboriginal or Torres Strait Islander mothers. However, the rate of gestational diabetes was higher among non-Aboriginal or Torres Strait Islander mothers (7.0%) than Aboriginal or Torres Strait Islander mothers (6.6%). Overall, the rate of hypertension in pregnancy was higher in Aboriginal or Torres Strait Islander mothers (7.2%) compared with non-Aboriginal or Torres Strait Islander mothers (5.3%) (Table 82). 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 82: MEDICAL CONDITIONS AND OBSTETRIC COMPLICATIONS AMONG ABORIGINAL AND NON-ABORIGINAL MOTHERS, NSW 2013^a

Condition	Aboriginal or Torres Strait Islander							
	Aboriginal or Torres Strait Islander		Non-Aboriginal or Torres Strait Islander		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%
Diabetes mellitus	41	1.2	1129	1.2	0	0.0	1170	1.2
Gestational diabetes	230	6.6	6479	7.0	1	1.7	6710	7.0
Chronic hypertension	29	0.8	712	0.8	0	0.0	741	0.8
Pre-eclampsia	90	2.6	1486	1.6	1	1.7	1577	1.7
Gestational Hypertension	132	3.8	2634	2.9	0	0.0	2766	2.9
TOTAL	3492	100.0	91986	100.0	59	100.0	95537	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies to the PDC, it is likely that the true number of mothers are about 17% higher than shown (Table 72)

Labour and birth

The rate of spontaneous onset of labour among Aboriginal or Torres Strait Islander mothers fell from 63.8% in 2009 to 57.1% in 2013 (Table 83), while the rate of induction of labour increased from 23.9% to 28.5%. The rate of spontaneous onset of labour was slightly higher among Aboriginal or Torres Strait Islander compared to the rate of 52.0% reported among non-Aboriginal or Torres Strait Islander mothers in 2013.

Between 2009 and 2013, the rate of normal vaginal birth fell from 68.3% to 66.8%. The caesarean section rate rose from 24.3% to 25.5% (Table 84). The rate of instrumental delivery increased from 6.5% to about 7.0%, and 0.7% of all births were vaginal breech births.

TABLE 83: LABOUR ONSET FOR ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2009–2013^a

Labour Onset	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Spontaneous	1852	63.8	1956	63.3	1809	60.8	1984	59.3	1993	57.1
Induced	695	23.9	740	23.9	774	26.0	891	26.6	996	28.5
No labour [*]	357	12.3	394	12.8	391	13.1	472	14.1	503	14.4
Not stated	0	0.0	0	0.0	1	0.0	1	0.0	0	0.0
TOTAL	2904	100.0	3090	100.0	2975	100.0	3348	100.0	3492	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 72).

^{*} No labour indicates elective caesarean section.

TABLE 84: TYPE OF BIRTH AMONG ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2009–2013^a

Type of birth	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Normal vaginal	1984	68.3	2070	67.0	1989	66.9	2256	67.4	2332	66.8
Forceps	64	2.2	68	2.2	63	2.1	82	2.4	102	2.9
Vacuum extraction	126	4.3	144	4.7	141	4.7	143	4.3	143	4.1
Vaginal breech	23	0.8	19	0.6	14	0.5	22	0.7	26	0.7
Elective caesarean section	357	12.3	394	12.8	391	13.1	472	14.1	503	14.4
Emergency caesarean section [*]	350	12.1	395	12.8	375	12.6	372	11.1	386	11.1
Not stated	0	0.0	0	0.0	2	0.1	1	0.0	0	0.0
TOTAL	2904	100.0	3090	100.0	2975	100.0	3348	100.0	3492	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 72).

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

Birth weight

Since 2009, the rate of low birth weight (less than 2,500 grams) in Aboriginal or Torres Strait Islander babies has been over 10% and was 11.4% in 2013 (Table 85). This is about twice the rate for babies born to non-Aboriginal or Torres Strait Islander mothers, which was 6.2% in 2013. In 2013, the largest number of low birth weight babies was in the Hunter New England Local Health District (Table 86).

TABLE 85: WEIGHT OF BABIES BORN TO ABORIGINAL AND TORRES STRAIGHT ISLANDER MOTHERS, NSW 2009–2013[#]

Birth weight (grams)	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Less than 1,000	36	1.2	39	1.2	42	1.4	45	1.3	33	0.9
1,000–1,499	22	0.8	25	0.8	17	0.6	24	0.7	36	1.0
1,500–2,499	259	8.8	287	9.1	314	10.4	305	9.0	334	9.4
2,500+	2610	89.0	2787	88.8	2643	87.5	3022	88.9	3136	88.5
Not stated	4	0.1	0	0.0	5	0.2	3	0.1	3	0.1
TOTAL	2931	100.0	3138	100.0	3021	100.0	3399	100.0	3542	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies to the PDC, it is likely that the true numbers of babies are higher than shown (Table 73).

TABLE 86: WEIGHT OF BABIES BORN TO ABORIGINAL AND TORRES STRAIGHT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013[#]

Local Health District	Birth Weight (grams)							
	< 2,500		2,500+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%
Sydney	9	9.8	83	90.2	0	0.0	92	100.0
South Western Sydney	19	9.5	181	90.5	0	0.0	200	100.0
South Eastern Sydney	7	7.4	87	92.6	0	0.0	94	100.0
Illawarra Shoalhaven	24	10.5	205	89.5	0	0.0	229	100.0
Western Sydney	39	14.9	223	85.1	0	0.0	262	100.0
Nepean Blue Mountains	30	15.2	168	84.8	0	0.0	198	100.0
Northern Sydney	-	-	28	96.6	-	-	29	100.0
Central Coast	23	12.1	167	87.9	0	0.0	190	100.0
Hunter New England	98	10.8	810	89.2	0	0.0	908	100.0
Northern NSW	25	9.6	234	90.0	1	0.4	260	100.0
Mid North Coast	36	15.5	197	84.5	0	0.0	233	100.0
Southern NSW	-	-	60	93.8	-	-	64	100.0
Murrumbidgee	9	5.6	151	93.8	1	0.6	161	100.0
Western NSW	68	12.3	484	87.5	1	0.2	553	100.0
Far West	8	17.4	38	82.6	0	0.0	46	100.0
Other—not stated	3	13.0	20	87.0	0	0.0	23	100.0
TOTAL	403	11.4	3136	88.5	3	0.1	3542	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies 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 72). Data not shown for cell counts less than five.

Gestational age

Since 2009, over 10% of Aboriginal or Torres Strait Islander babies have been premature (less than 37 weeks gestation) (Table 87). The rate of prematurity was 12.6% in 2013, compared with a rate of 7.5% for babies born to non-Aboriginal or Torres Strait Islander mothers. In 2013, the largest number of premature babies was born in the Hunter New England Local Health District (Table 88).

TABLE 87: GESTATIONAL AGE OF BABIES BORN TO ABORIGINAL AND TORRES STRAIGHT ISLANDER MOTHERS, NSW 2009–2013[#]

Gestational age (weeks)	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
< 28	39	1.3	39	1.2	44	1.5	45	1.3	35	1.0
28–31	26	0.9	40	1.3	40	1.3	38	1.1	44	1.2
32–36	244	8.3	287	9.1	297	9.8	367	10.8	369	10.4
37–41	2589	88.3	2739	87.3	2620	86.7	2927	86.1	3076	86.8
42 +	33	1.1	32	1.0	18	0.6	21	0.6	17	0.5
Not stated	0	0.0	1	0.0	2	0.1	1	0.0	1	0.0
TOTAL	2931	100.0	3138	100.0	3021	100.0	3399	100.0	3542	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies to the PDC, it is likely that the true numbers of babies are higher than shown (Table 72).

TABLE 88: GESTATIONAL AGE OF BABIES BORN TO ABORIGINAL AND TORRES STRAIGHT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013[#]

Local Health District	Gestational age (weeks)							
	Less than 37		37+		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%
Sydney	17	18.5	75	81.5	0	0.0	92	100.0
South Western Sydney	21	10.5	179	89.5	0	0.0	200	100.0
South Eastern Sydney	10	10.6	84	89.4	0	0.0	94	100.0
Illawarra Shoalhaven	31	13.5	198	86.5	0	0.0	229	100.0
Western Sydney	45	17.2	217	82.8	0	0.0	262	100.0
Nepean Blue Mountains	35	17.7	163	82.3	0	0.0	198	100.0
Northern Sydney	-	-	28	96.6	-	-	29	100.0
Central Coast	21	11.1	169	88.9	0	0.0	190	100.0
Hunter New England	105	11.6	803	88.4	0	0.0	908	100.0
Northern NSW	35	13.5	225	86.5	0	0.0	260	100.0
Mid North Coast	32	13.7	200	85.8	1	0.4	233	100.0
Southern NSW	7	10.9	57	89.1	0	0.0	64	100.0
Murrumbidgee	17	10.6	144	89.4	0	0.0	161	100.0
Western NSW	63	11.4	490	88.6	0	0.0	553	100.0
Far West	-	-	41	89.1	-	-	46	100.0
Other-not stated	3	13.0	20	87.0	0	0.0	23	100.0
TOTAL	448	12.6	3093	87.3	1	0.0	3542	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies 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 72 and 73). Data not shown for cell counts less than five.

Apgar score

In 2013, 3.0% of Aboriginal or Torres Strait Islander babies had an Apgar score less than 7 at 5 minutes (Table 89), slightly higher than the rate of 2.3% for babies born to non-Aboriginal or Torres Strait Islander mothers.

TABLE 89: APGAR SCORE OF BABIES BORN TO ABORIGINAL AND TORRES STRAIGHT ISLANDER BABIES, NSW 2009–2013[#]

Apgar score at 5 minutes	Year									
	2009		2010		2011		2012		2013	
	No.	%	No.	%	No.	%	No.	%	No.	%
Not stated	20	0.7	19	0.6	13	0.4	20	0.6	4	0.1
0-4	53	1.8	50	1.6	61	2.0	50	1.5	58	1.6
5-6	39	1.3	53	1.7	56	1.9	59	1.7	46	1.3
7+	2819	96.2	3016	96.1	2891	95.7	3270	96.2	3434	97.0
TOTAL	2931	100.0	3138	100.0	3021	100.0	3399	100.0	3542	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies to the PDC, it is likely that the true numbers of babies are higher than shown (Table 72).

Infant feeding

In 2013, 63.2% of babies born to Aboriginal or Torres Strait Islander mothers were fully breastfed at discharge from hospital, 5.3% were partially breastfed and 29.6% received infant formula only (Table 90). This compares with 80.5% of babies born to non-Aboriginal or Torres Strait Islander mothers who were fully breastfed in 2013. Rates of full breastfeeding ranged from 50.0% in the Western Sydney Local Health District to 82.8% in the Northern Sydney Local Health District.

TABLE 90: INFANT FEEDING AMONG LIVEBORN BABIES OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2013[#]

Local Health District	Infant feeding									
	Full breast-feeding		Any breast-feeding		Infant formula only		Not stated		TOTAL	
	No.	%	No.	%	No.	%	No.	%	No.	%
Sydney	66	72.5	-	-	21	23.1	-	-	91	100.0
South Western Sydney	118	59.3	10	5.0	69	34.7	2	1.0	199	100.0
South Eastern Sydney	71	75.5	8	8.5	15	16.0	0	0.0	94	100.0
Illawarra Shoalhaven	154	67.5	15	6.6	57	25.0	2	0.9	228	100.0
Western Sydney	130	50.0	16	6.2	110	42.3	4	1.5	260	100.0
Nepean Blue Mountains	117	59.7	12	6.1	65	33.2	2	1.0	196	100.0
Northern Sydney	24	82.8	-	-	-	-	-	-	29	100.0
Central Coast	139	73.2	8	4.2	41	21.6	2	1.1	190	100.0
Hunter New England	590	65.4	43	4.8	248	27.5	21	2.3	902	100.0
Northern NSW	193	74.8	9	3.5	52	20.2	4	1.6	258	100.0
Mid North Coast	147	63.6	15	6.5	60	26.0	9	3.9	231	100.0
Southern NSW	51	79.7	-	-	9	14.1	-	-	64	100.0
Murrumbidgee	90	56.3	-	-	64	40.0	-	-	160	100.0
Western NSW	292	53.6	30	5.5	205	37.6	18	3.3	545	100.0
Far West	25	54.3	6	13.0	14	30.4	1	2.2	46	100.0
Other-not stated	16	69.6	1	4.3	6	26.1	0	0.0	23	100.0
TOTAL	2223	63.2	185	5.3	1039	29.6	69	2.0	3516	100.0

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

[#] Due to under-reporting of Aboriginal mothers and babies 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 72). Data not shown for cell counts less than five.

Perinatal mortality

Between 2009 and 2013, the perinatal mortality rate among babies of Aboriginal or Torres Strait Islander mothers has varied between 11.0 and 17.9 per 1,000 births (Table 91). The rate of 11.0 per 1,000 births in Aboriginal or Torres Strait Islander mothers in 2013 is substantially higher than the rate of 7.9 per 1,000 births experienced among babies born to non-Aboriginal or Torres Strait Islander mothers.

TABLE 91: PERINATAL DEATHS AMONG BABIES OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2009–2013[#]

Perinatal deaths	Year									
	2009		2010		2011		2012		2013	
	No.	Rate/ 1,000	No.	Rate/ 1,000	No.	Rate/ 1,000	No.	Rate/ 1,000	No.	Rate/ 1,000
Stillborn	27	9.2	26	8.3	40	13.2	28	8.2	26	7.3
Neonatal death	10	3.4	16	5.1	14	4.6	13	3.8	13	3.7
TOTAL	37	12.6	42	13.4	54	17.9	41	12.1	39	11.0

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 and babies to the PDC, it is likely that the true numbers of babies are higher than shown (Table 72).

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 one and five 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.

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 three 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 local areas 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 1101 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

Health Department Copy

Demand and Performance Evaluation Branch, Level 5, NSW Department of Health
Locked Mail Bag 961, North Sydney, NSW 2059



