

NSW Mothers and Babies 2016



Health

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CONTENTS

| | | |
|-----------|---|-----------|
| 1. | ACKNOWLEDGEMENTS | 7 |
| 2. | EXECUTIVE SUMMARY | 8 |
| 3. | METHODS | 9 |
| | Data sources | 9 |
| | Map of NSW Local Health Districts | 11 |
| 4. | TRENDS IN NEW SOUTH WALES | 12 |
| | Confinements and births by plurality | 12 |
| | Table 1: Plurality, NSW 2012–2016 | 12 |
| | Local Health District of residence | 12 |
| | Table 2: Maternal Local Health District of residence, NSW 2012–2016 | 12 |
| | Maternal age | 13 |
| | Figure 1: Mothers aged less than 20 years and 35 years and over, NSW 2012–2016 | 13 |
| | Table 3: Maternal Age, NSW 2012–2016 | 13 |
| | Maternal country of birth | 14 |
| | Table 4: Maternal country of birth, NSW 2012–2016 | 14 |
| | Aboriginal and Torres Strait Islander mothers | 15 |
| | Table 5: Aboriginal and Torres Strait Islander mothers, NSW 2012–2016 | 15 |
| | Previous pregnancies | 15 |
| | Table 6: Previous pregnancies, NSW 2012–2016 | 15 |
| | Duration of pregnancy at first antenatal visit | 15 |
| | Table 7: Duration of pregnancy at first antenatal visit, NSW 2012–2016 | 15 |
| | Smoking in pregnancy | 16 |
| | Table 8: Smoking in pregnancy, NSW 2012–2016 | 16 |
| | Table 9: Mothers who smoked at all during pregnancy by number of cigarettes smoked in the second half of pregnancy, NSW 2012–2016 | 16 |
| | Place of birth | 16 |
| | Table 10: Maternal place of birth, NSW 2012–2016 | 16 |
| | Hypertension and diabetes | 17 |
| | Table 11: Maternal hypertension or diabetes, NSW 2012–2016 | 17 |
| | Labour | 17 |
| | Table 12: Onset and augmentation of labour, NSW 2012–2016 | 17 |
| | Birth | 18 |
| | Table 13: Type of birth, NSW 2012–2016 | 18 |
| | Table 14: Maternal health insurance by type of birth, NSW 2012–2016 | 18 |
| | Baby sex | 19 |

| | |
|---|-----------|
| Gestational age | 19 |
| Table 15: Gestational age, NSW 2012–2016 | 19 |
| Birth weight | 19 |
| Table 16: Birth weight, NSW 2012–2016 | 19 |
| Apgar score | 19 |
| Table 17: Apgar score at 5 minutes, NSW 2012–2016 | 19 |
| Hepatitis B | 20 |
| Table 18: Hepatitis B dose given to liveborn babies, NSW 2012–2016 | 20 |
| Infant feeding | 20 |
| Table 19: Live births by type of infant feeding, NSW 2012–2016 | 20 |
| Perinatal outcome | 20 |
| Table 20: Perinatal outcomes, NSW 2012–2016 | 20 |
| Maternal deaths | 21 |
| Table 21: Maternal deaths by year, NSW 1990-2015 | 21 |
| Table 22: Maternal deaths by cause, NSW 2015 | 21 |
| | |
| 5. LOCAL HEALTH DISTRICTS | 22 |
| Confinements | 22 |
| Maternal age | 22 |
| Table 23: Maternal age by Local Health District of residence, NSW 2016 | 22 |
| Maternal country of birth | 23 |
| Table 24: Maternal country of birth by Local Health District of residence, NSW 2016 | 23 |
| Aboriginal and Torres Strait Islander mothers | 24 |
| Table 25: Aboriginal and Torres Strait Islander mothers by Local Health District of residence, NSW 2016 | 24 |
| Duration of pregnancy at first antenatal visit | 24 |
| Table 26: Duration of pregnancy at first antenatal visit by Local Health District of residence, NSW 2016 | 24 |
| Smoking in pregnancy | 25 |
| Table 27: Cigarettes smoked in the second half of pregnancy by Local Health District of residence, NSW 2016 | 25 |
| Place of birth | 25 |
| Table 28: Place of birth by Local Health District of residence, NSW 2016 | 25 |
| Labour | 26 |
| Table 29: Onset and augmentation of labour by Local Health District of residence, NSW 2016 | 26 |
| Birth type | 26 |
| Table 30: Type of birth by Local Health District of residence, NSW 2016 | 26 |
| Birth weight | 27 |
| Table 31: Birth weight by Local Health District of residence, NSW 2016 | 27 |
| Gestational age | 27 |
| Table 32: Gestational age by Local Health District of residence, NSW 2016 | 27 |

| | |
|---|-----------|
| Hepatitis B | 28 |
| Table 33: Hepatitis B dose given to liveborn babies, NSW 2016 | 28 |
| Infant feeding | 28 |
| Table 34: Live births by infant feeding on discharge and Local Health District of residence, NSW 2016 | 28 |
| Perinatal outcomes | 29 |
| Table 35: Perinatal outcomes by Local Health District of residence, NSW 2016 | 29 |
| Live births by statistical area of residence | 30 |
| Table 36: Live births by Local Health District and statistical area of residence, NSW 2016 | 30 |

6. NSW HOSPITALS **32**

| | |
|--|-----------|
| Onset and augmentation of labour | 32 |
| Table 37: Onset and augmentation of labour by Local Health District of hospital, NSW 2016 | 32 |
| Table 38: Onset and augmentation of labour by hospital and maternity service level, NSW 2016 | 32 |
| Type of birth | 34 |
| Table 39: Type of birth by Local Health District of hospital, NSW 2016 | 34 |
| Table 40: Type of birth by hospital and maternity service level, NSW 2016 | 34 |
| Pain relief | 36 |
| Table 41: Pain relief by Local Health District of hospital, NSW 2016 | 36 |
| Table 42: Pain relief by hospital and maternity service level, NSW 2016 | 36 |
| Perineal status | 38 |
| Table 43: Perineal status among vaginal births by Local Health District of hospital, NSW 2016 | 38 |
| Table 44: Perineal status among vaginal births by hospital and maternity service level, NSW 2016 | 38 |
| Birth weight | 40 |
| Table 45: Births by birth weight and Local Health District of hospital, NSW 2016 | 40 |
| Table 46: Births by birth weight, hospital and maternity service level, NSW 2016 | 40 |
| Gestational age | 42 |
| Table 47: Births by gestational age and Local Health District of hospital, NSW 2016 | 42 |
| Table 48: Births by gestational age, hospital and maternity service level, NSW 2016 | 42 |
| Neonatal resuscitation | 44 |
| Table 49: Births by type of resuscitation and Local Health District of hospital, NSW 2016 | 44 |
| Table 50: Births by type of resuscitation, hospital and maternity service level, NSW 2016 | 44 |
| Infant feeding | 46 |
| Table 51: Live births by type of infant feeding and Local Health District of hospital, NSW 2016 | 46 |
| Table 52: Live births by type of infant feeding, hospital and maternity service level, NSW 2016 | 46 |
| Baby discharge status | 48 |
| Table 53: Baby discharge status by hospital and Local Health District of hospital, NSW 2016 | 48 |
| Table 54: Baby discharge status by hospital and maternity service level, NSW 2016 | 48 |
| Postnatal length of stay | 50 |
| Table 55: Average maternal postnatal length of stay in hospital of birth, NSW 2012–2016 | 50 |

| | | |
|-----------|---|-----------|
| 7. | CLINICAL INDICATORS | 51 |
| | Outcome of selected primipara, Indicator 1.1 | 51 |
| | Table 56: 1.1 Selected primipara who have a spontaneous vaginal birth by Local Health District and hospital, NSW 2012–2016 | 51 |
| | Indicator 1.2 | 53 |
| | Table 57: 1.2 Selected primipara who undergo induction of labour by Local Health District and hospital, NSW 2012–2016 | 53 |
| | Indicator 1.3 | 54 |
| | Table 58: 1.3 Selected primipara who undergo an instrumental vaginal birth by Local Health District and hospital, NSW 2012–2016 | 54 |
| | Indicator 1.4 | 55 |
| | Table 59: 1.4 Selected primipara undergoing caesarean section by Local Health District and hospital, NSW 2012–2016 | 55 |
| | Vaginal birth following caesarean section, Indicator 2.1 | 56 |
| | Table 60: 2.1 Vaginal delivery after previous primary caesarean section by Local Health District and hospital, NSW 2012–2016 | 56 |
| | Major perineal tears and surgical repair of the perineum, Indicator 3.1 | 57 |
| | Table 61: 3.1 Selected primipara delivering vaginally with an intact perineum by Local Health District and hospital, NSW 2012–2016 | 57 |
| | Indicator 3.2 | 58 |
| | Table 62: 3.2 Selected primipara undergoing episiotomy and no perineal tear by Local Health District and hospital, NSW 2012–2016 | 58 |
| | Indicator 3.3 | 59 |
| | Table 63: 3.3 Selected primipara sustaining a perineal tear and no episiotomy by Local Health District and hospital, NSW 2012–2016 | 59 |
| | Indicator 3.4 | 60 |
| | Table 64: 3.4 Selected primipara undergoing episiotomy and sustaining a perineal tear by Local Health District and hospital, NSW 2012–2016 | 60 |
| | Indicator 3.5 | 61 |
| | TABLE 65: 3.5 Selected primipara undergoing surgical repair of the perineum for third degree tear by Local Health District and hospital, NSW 2012–2016 | 61 |
| | Indicator 3.6 | 62 |
| | Table 66: 3.6 Selected primipara undergoing surgical repair of the perineum for fourth degree tear by Local Health District and hospital, NSW 2012–2016 | 62 |
| | General anaesthesia for caesarean section, Indicator 4.1 | 63 |
| | Table 67: 4.1 General anaesthesia for caesarean section by Local Health District and hospital, NSW 2012–2016 | 63 |

| | |
|---|-----------|
| Postpartum haemorrhage and blood transfusion after vaginal birth, Indicator 7.1 | 64 |
| Table 68: 7.1 Postpartum haemorrhage and blood transfusion following vaginal birth by Local Health District and hospital, NSW 2012–2016 | 64 |
| Postpartum haemorrhage and blood transfusion after caesarean section, Indicator 7.2 | 65 |
| Table 69: 7.2 Postpartum haemorrhage and blood transfusion following caesarean section by Local Health District and hospital, NSW 2012–2016 | 65 |
| Intrauterine growth restriction, Indicator 8.1 | 66 |
| Table 70: 8.1 Intrauterine growth restriction at 40 weeks gestation or more by Local Health District and hospital, NSW 2012–2016 | 66 |
| Apgar score, Indicator 9.1 | 67 |
| Table 71: 9.1 Apgar score of 7 or less in term babies by Local Health District and hospital, NSW 2012–2016 | 67 |
| <hr/> | |
| 8. ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS AND BABIES | 68 |
| Reporting of Aboriginality | 68 |
| Figure 2: Estimated level of reporting of births to Aboriginal or Torres Strait Islander mothers by year of birth and Local Health District of residence, NSW 2015 | 68 |
| Table 72: Aboriginal or Torres Strait Islander mothers and estimated level of reporting by year of birth and Local Health District of residence 2014–2016 | 69 |
| Table 73: Aboriginal or Torres Strait Islander babies and estimated level of reporting by year of birth and Local Health District of residence 2014–2016 | 70 |
| Trends in births | 71 |
| Table 74: Aboriginal and Torres Strait Islander mothers and babies, NSW 2012–2016 | 71 |
| Plurality | 71 |
| Table 75: Aboriginal and Torres Strait Islander mothers and babies by plurality, NSW 2012–2016 | 71 |
| Previous pregnancies | 71 |
| Table 76: Previous pregnancies among Aboriginal and Torres Strait Islander mothers, NSW 2012–2016 | 71 |
| Maternal age | 72 |
| Table 77: Age of Aboriginal and Torres Strait Islander mothers, NSW 2012–2016 | 72 |
| Local Health District of residence | 72 |
| Table 78: Local Health District of residence of Aboriginal and Torres Strait Islander mothers, NSW 2012–2016 | 72 |
| Table 79: Local Health District of residence of Aboriginal and Torres Strait Islander mothers by age, NSW 2016 | 73 |
| Duration of pregnancy at first antenatal visit | 73 |
| Table 80: Duration of pregnancy at first antenatal visit among Aboriginal and Torres Strait Islander mothers, NSW 2012–2016 | 73 |
| Table 81: Duration of pregnancy at first antenatal visit among Aboriginal and Torres Strait Islander mothers by Local Health District of residence, NSW 2016 | 74 |
| Smoking in pregnancy | 74 |
| Figure 3: Smoking in the second half of pregnancy among Aboriginal and Torres Strait Islander mothers by amount smoked and Local Health District of residence, NSW 2016 | 74 |

| | |
|---|-----------|
| Medical conditions and obstetric complications | 75 |
| Table 82: Medical conditions and obstetric complications among Aboriginal and non-Aboriginal mothers, NSW 2016 | 75 |
| Labour and birth | 75 |
| Table 83: Labour onset for Aboriginal and Torres Strait Islander mothers, NSW 2012–2016 | 75 |
| Table 84: Type of birth among Aboriginal and Torres Strait Islander mothers, NSW 2012–2016 | 75 |
| Birth weight | 76 |
| Table 85: Weight of babies born to Aboriginal and Torres Strait Islander mothers, NSW 2012–2016 | 76 |
| Table 86: Weight of babies born to Aboriginal and Torres Strait Islander mothers by Local Health District of residence, NSW 2016 | 76 |
| Gestational age | 76 |
| Table 87: Gestational age of babies born to Aboriginal and Torres Strait Islander mothers, NSW 2012–2016 | 76 |
| Table 88: Gestational age of babies born to Aboriginal and Torres Strait Islander mothers by Local Health District of residence, NSW 2016 | 77 |
| Apgar score | 77 |
| Table 89: Apgar score of babies born to Aboriginal and Torres Strait Islander mothers, NSW 2012–2016 | 77 |
| Infant feeding | 78 |
| Table 90: Infant feeding among liveborn babies of Aboriginal and Torres Strait Islander mothers by Local Health District of residence, NSW 2016 | 78 |
| Perinatal mortality | 78 |
| Table 91: Perinatal deaths among babies born to Aboriginal and Torres Strait Islander mothers, NSW 2012–2016 | 78 |
| <hr/> | |
| 9. APPENDICES | 79 |
| Appendix 1: Glossary of terms | 79 |
| Appendix 2: Explanatory notes | 80 |
| Appendix 3: Maternal countries of birth and country of birth groups | 81 |
| <hr/> | |

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2. EXECUTIVE SUMMARY

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

- The number of births in NSW fell from 99,510 in 2012 to 98,727 in 2016, an overall decrease of 0.8%. The largest relative decrease occurred in the Northern NSW Local Health District, where the number of births decreased from 2,786 to 2,327 between 2012 and 2016.
- The percentage of mothers who were teenagers fell from 3.2% in 2012 to 2.2% in 2016. Over the same period the percentage of mothers aged 35 years and over remained stable, and was 23.7% in 2016.
- The rate of normal vaginal birth decreased from 57.1% in 2012 to 55.2% in 2016. The caesarean section rate increased from 31.1% to 32.9%, while the rate of instrumental birth remained steady at about 11.5%.
- Operative and instrumental births are more common among privately than publicly insured mothers. Among privately insured mothers the rate of normal vaginal birth decreased from 45.3% in 2012 to 44.0% in 2016 and the caesarean section rate increased from 40.7% to 42.1%. Among publicly insured mothers the rate of normal vaginal birth decreased from 63.2% to 61.4% and the caesarean section rate increased from 26.1% to 27.8%.
- The proportion of mothers reporting any smoking during pregnancy declined from 10.4% in 2012 to 8.3% in 2016. Of mothers who smoked during pregnancy in 2016, 26.7% stopped smoking in the first half of pregnancy.
- In 2016, the majority of mothers planned to give birth in a hospital labour ward, and 2.5% of mothers planned to give birth in a birth centre. Eighty-six per cent of mothers who planned to give birth in a birth centre actually did so. There were 173 homebirths in NSW reported in 2016.
- In 2016, 7.3% of babies were born prematurely (less than 37 weeks gestation), a slight decrease from 7.6% in 2012.
- Since 2012, the rate of low birth weight (less than 2,500 grams) has remained stable, ranging from 6.1% to 6.6%. The rate of low birth weight was 6.5% in 2016.
- Between 2012 and 2016, the reported number of Aboriginal or Torres Strait Islander mothers giving birth increased from 3,348 to 4,118, an increase from 3.4% to 4.2% of all mothers.
- The percentage of Aboriginal or Torres Strait Islander mothers who were teenagers fell substantially from 18.6% in 2012 to 12.8% in 2016. The percentage of Aboriginal or Torres Strait Islander mothers giving birth at 35 years of age or more has increased from 8.1% in 2012 to 9.5% in 2016.
- In 2016, 41.3% of Aboriginal or Torres Strait Islander mothers reported smoking at some time during pregnancy.
- Since 2012, rates of low birth weight and prematurity in Aboriginal or Torres Strait Islander babies have been over 10%. In 2016, 10.8% of Aboriginal or Torres Strait Islander babies were low birth weight and 11.2% were premature.
- The perinatal mortality rate of 12.2 per 1,000 births in Aboriginal or Torres Strait Islander mothers in 2016 is higher than the rate of 7.3 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 an electronic notification when a birth occurs. The electronic notification captures items described in *PD2015_025 NSW Perinatal Data Collection (PDC) Reporting and Submission Requirements from 1 January 2016*. These items include demographic, maternal health, pregnancy, labour, birth, and perinatal outcomes. Completed notifications are transferred electronically to the state database, which is managed by Health System Information and Performance Reporting Branch within the System Purchasing and Performance Division of the NSW Ministry of Health. The PDC data dictionary can be found at <http://www.cherel.org.au/data-dictionaries>.

In 2016, 100.0% of PDC records were received electronically from public and private hospitals information systems. There are several source systems that generate the PDC data. The largest source is ObstetriX, which supplies 57.4% of all PDC records and covers all public hospitals in Northern Sydney, Central Coast, South Eastern Sydney, Illawarra Shoalhaven, Hunter New England, Nepean Blue Mountains and Western Sydney Local Health Districts and some hospitals in Mid North Coast, Northern NSW, Murrumbidgee, Southern NSW, Western NSW and Far West Local Health Districts. CERNER systems supply 18.5% of PDC records (public hospitals in Sydney and South Western Sydney Local Health Districts). In 2016, 4 Local Health Districts transitioned to eMaternity during the year, supplying 0.8% of PDC records (public hospitals in Mid North Coast, Northern NSW, Northern Sydney, and Central Coast). Healthscope Hospitals (Prince of Wales Private Hospital, Norwest Private Hospital, Sydney South West Private Hospital, Nepean Private Hospital and Newcastle Private Hospital) supply 8.3% of PDC records. Meditech, which includes 5 Ramsay Private Hospitals (North Shore Private Hospital, Westmead Private Hospital, St George Private Hospital, Kareena Private Hospital and Wollongong Private Hospital), supplies 8.2% of all PDC data. The Mater Hospital, North Sydney database supplies 2.4% of PDC records, and 2.0% of PDC records are supplied from the Sydney Adventist Hospital database.

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

Maternal and Child Health Register

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

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

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

(Continued on next page)

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

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

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

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

NSW Maternal and Perinatal Mortality Review Committee

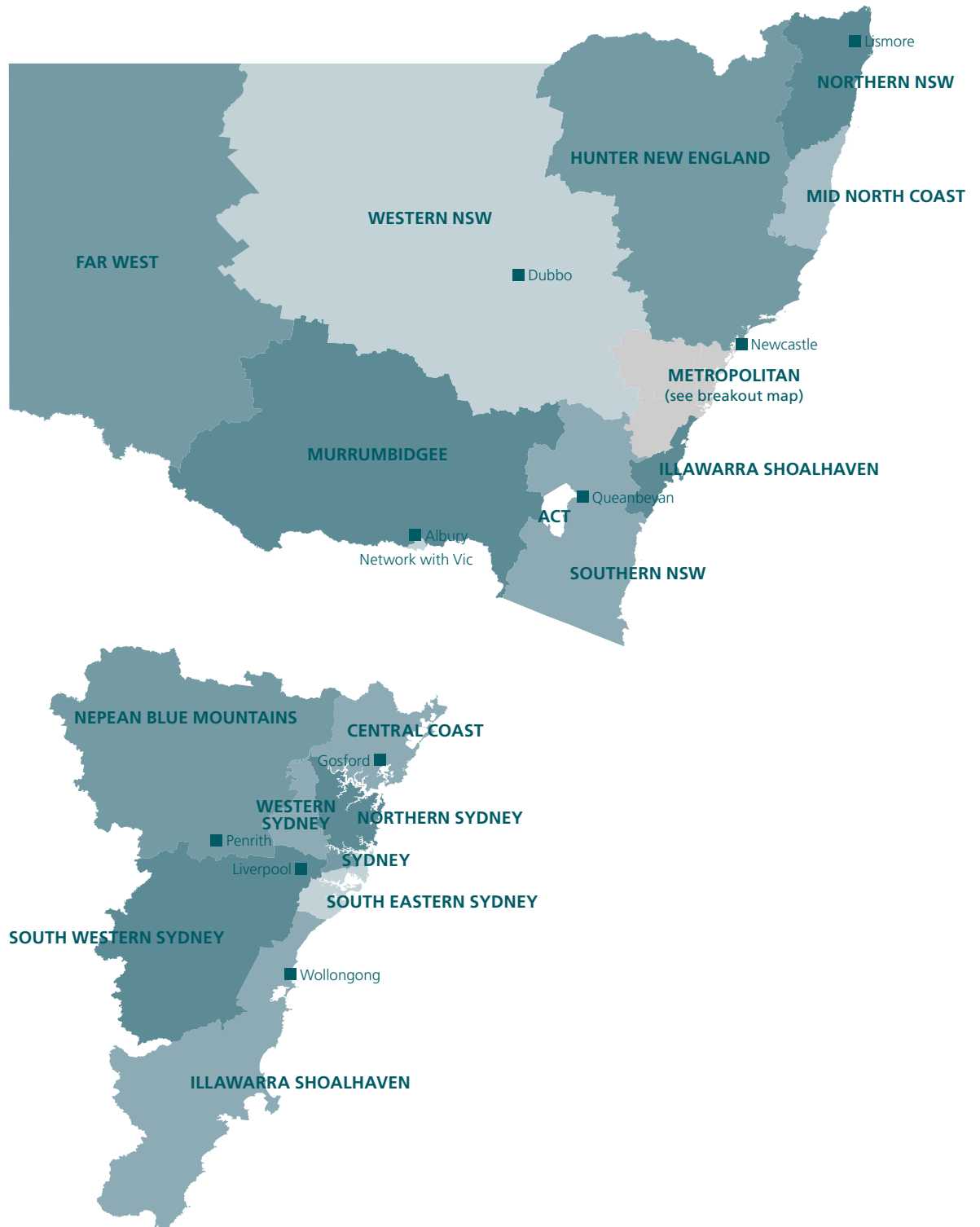
The NSW Maternal and Perinatal Mortality Review Committee was established under the *NSW Health Administration Act 1982*, and is privileged under the Act to carry out confidential reviews of both maternal and perinatal deaths. Members are appointed by the Minister for Health.

The Committee reviews each maternal death to classify the death, identify the cause of death, ascertain any possible avoidable factors, and identify lessons to be learnt. The Committee also reviews perinatal deaths among liveborn babies, and stillbirths of at least 20 weeks gestation or at least 400 grams birth weight. The information obtained from these reviews assists in the development of policies aimed at improving the health of mothers and newborns in NSW. Information considered by the Committee is confidential.

Reference

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

Map of NSW Local Health Districts



4. TRENDS IN NEW SOUTH WALES

Confinements and births by plurality

The number of births in NSW fell from 99,510 in 2012 to 98,727 in 2016, a decrease of 0.8%. In 2016, 98,727 births to 97,306 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 2012–2016

| Plurality | | Year | | | | | | | | | |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | | No. | % | No. | % | No. | % | No. | % | No. | % |
| Confinements | Singleton | 96793 | 98.6 | 94128 | 98.5 | 94543 | 98.6 | 93609 | 98.5 | 95906 | 98.6 |
| | Twins | 1327 | 1.4 | 1384 | 1.4 | 1367 | 1.4 | 1358 | 1.4 | 1379 | 1.4 |
| | Triplets | 21 | 0.0 | 25 | 0.0 | 16 | 0.0 | 22 | 0.0 | 21 | 0.0 |
| | TOTAL | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 100.0 |
| Births | Singleton | 96793 | 97.3 | 94128 | 97.1 | 94543 | 97.1 | 93609 | 97.1 | 95906 | 97.1 |
| | Twins | 2654 | 2.7 | 2768 | 2.9 | 2734 | 2.8 | 2716 | 2.8 | 2758 | 2.8 |
| | Triplets | 63 | 0.1 | 75 | 0.1 | 48 | 0.0 | 66 | 0.1 | 63 | 0.1 |
| | TOTAL | 99510 | 100.0 | 96971 | 100.0 | 97325 | 100.0 | 96391 | 100.0 | 98727 | 100.0 |

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

Local Health District of residence

The largest relative increase occurred in the Nepean Blue Mountains Local Health District, where the number of births increased from 4,788 to 5,042 between 2012 and 2016. The largest relative decrease occurred in the Northern NSW Local Health District, where the number of births decreased from 2,786 to 2,327 between 2012 and 2016. In 2016, 29.2% 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 2012–2016

| Local Health District | Year | | | | | | | | | |
|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 8769 | 8.9 | 8331 | 8.7 | 8401 | 8.8 | 8249 | 8.7 | 8345 | 8.6 |
| South Western Sydney | 13176 | 13.4 | 12842 | 13.4 | 13220 | 13.8 | 12996 | 13.7 | 13750 | 14.1 |
| South Eastern Sydney | 11878 | 12.1 | 11396 | 11.9 | 11460 | 11.9 | 11077 | 11.7 | 11318 | 11.6 |
| Illawarra Shoalhaven | 4476 | 4.6 | 4398 | 4.6 | 4363 | 4.5 | 4507 | 4.7 | 4534 | 4.7 |
| Western Sydney | 14601 | 14.9 | 14515 | 15.2 | 14877 | 15.5 | 14640 | 15.4 | 14667 | 15.1 |
| Nepean Blue Mountains | 4788 | 4.9 | 4743 | 5.0 | 4820 | 5.0 | 4929 | 5.2 | 5042 | 5.2 |
| Northern Sydney | 10653 | 10.9 | 10310 | 10.8 | 10454 | 10.9 | 10270 | 10.8 | 10804 | 11.1 |
| Central Coast | 3823 | 3.9 | 3922 | 4.1 | 3738 | 3.9 | 3813 | 4.0 | 3816 | 3.9 |
| Hunter New England | 11328 | 11.5 | 10931 | 11.4 | 10717 | 11.2 | 10797 | 11.4 | 10690 | 11.0 |
| Northern NSW | 2786 | 2.8 | 2785 | 2.9 | 2631 | 2.7 | 2557 | 2.7 | 2327 | 2.4 |
| Mid North Coast | 2243 | 2.3 | 2235 | 2.3 | 2151 | 2.2 | 2183 | 2.3 | 1900 | 2.0 |
| Southern NSW | 1450 | 1.5 | 1368 | 1.4 | 1339 | 1.4 | 1360 | 1.4 | 1372 | 1.4 |
| Murrumbidgee | 2402 | 2.4 | 2305 | 2.4 | 2435 | 2.5 | 2377 | 2.5 | 2370 | 2.4 |
| Western NSW | 3879 | 4.0 | 3707 | 3.9 | 3805 | 4.0 | 3678 | 3.9 | 3740 | 3.8 |
| Far West | 255 | 0.3 | 226 | 0.2 | 230 | 0.2 | 222 | 0.2 | 234 | 0.2 |
| Other-not stated | 1634 | 1.7 | 1523 | 1.6 | 1285 | 1.3 | 1334 | 1.4 | 2397 | 2.5 |
| TOTAL | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 100.0 |

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

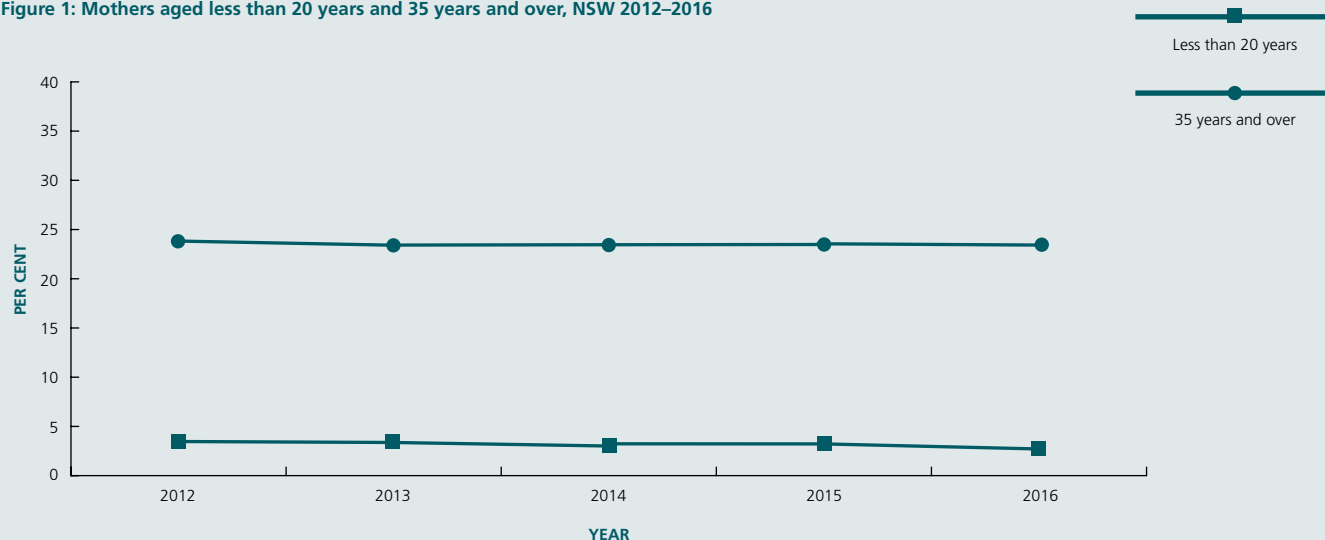
Maternal age

The percentage of mothers who were teenagers fell from 3.2% in 2012 to 2.2% in 2016. Between 2012 and 2016, the percentage of mothers aged 35 years and over remained stable and was 23.7% in 2016 (Figure 1, Table 3).

The mean maternal age rose from 30.3 to 30.6 years over the 5 years 2012 to 2016. The mean maternal age rose from 28.7 to 29.3 years for primiparous mothers and remained stable for multiparous mothers (31.7 years in 2016).

The proportion of mothers giving birth for the first time who were aged 35 years or more was 15.3% in 2012 and 16.0% in 2016. The proportion of multiparous mothers who were aged 35 years or more was 30.1% in 2012 and 29.7% in 2016.

Figure 1: Mothers aged less than 20 years and 35 years and over, NSW 2012–2016



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

TABLE 3: MATERNAL AGE, NSW 2012–2016

| Maternal age (years) | Year | | | | | | | | | |
|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Less than 15 | 18 | 0.0 | 15 | 0.0 | 14 | 0.0 | 15 | 0.0 | 8 | 0.0 |
| 15-19 | 3144 | 3.2 | 2832 | 3.0 | 2616 | 2.7 | 2362 | 2.5 | 2106 | 2.2 |
| 20-24 | 12694 | 12.9 | 12097 | 12.7 | 11699 | 12.2 | 11358 | 12.0 | 11007 | 11.3 |
| 25-29 | 26769 | 27.3 | 25801 | 27.0 | 25995 | 27.1 | 25476 | 26.8 | 25926 | 26.6 |
| 30-34 | 32385 | 33.0 | 32411 | 33.9 | 33300 | 34.7 | 33569 | 35.3 | 35126 | 36.1 |
| 35-39 | 18534 | 18.9 | 17841 | 18.7 | 17939 | 18.7 | 17776 | 18.7 | 18627 | 19.1 |
| 40-44 | 4314 | 4.4 | 4282 | 4.5 | 4115 | 4.3 | 4163 | 4.4 | 4142 | 4.3 |
| 45+ | 266 | 0.3 | 240 | 0.3 | 241 | 0.3 | 268 | 0.3 | 325 | 0.3 |
| Not stated | 17 | 0.0 | 18 | 0.0 | 7 | 0.0 | 2 | 0.0 | 39 | 0.0 |
| TOTAL | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 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 2012 and 2016, from 65.0% to 62.1%. In 2016, mothers born in India, China, New Zealand, United Kingdom, the Philippines, Vietnam, Lebanon and Iraq together accounted for 19.1% of all mothers (Table 4).

TABLE 4: MATERNAL COUNTRY OF BIRTH, NSW 2012–2016[#]

| Country of birth | Year | | | | | | | | | |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Australia | 63799 | 65.0 | 62165 | 65.1 | 60761 | 63.3 | 60769 | 64.0 | 60429 | 62.1 |
| China | 4145 | 4.2 | 3856 | 4.0 | 4753 | 5.0 | 3830 | 4.0 | 5079 | 5.2 |
| India | 3142 | 3.2 | 3328 | 3.5 | 3634 | 3.8 | 3860 | 4.1 | 4247 | 4.4 |
| New Zealand | 2246 | 2.3 | 2188 | 2.3 | 2128 | 2.2 | 2060 | 2.2 | 2081 | 2.1 |
| United Kingdom | 2185 | 2.2 | 1968 | 2.1 | 1816 | 1.9 | 1704 | 1.8 | 1825 | 1.9 |
| Philippines | 1494 | 1.5 | 1465 | 1.5 | 1450 | 1.5 | 1513 | 1.6 | 1626 | 1.7 |
| Vietnam | 1861 | 1.9 | 1436 | 1.5 | 1537 | 1.6 | 1478 | 1.6 | 1499 | 1.5 |
| Iraq | 981 | 1.0 | 1014 | 1.1 | 1092 | 1.1 | 1021 | 1.1 | 1152 | 1.2 |
| Lebanon | 1337 | 1.4 | 1280 | 1.3 | 1289 | 1.3 | 1159 | 1.2 | 1081 | 1.1 |
| Nepal | 542 | 0.6 | 636 | 0.7 | 766 | 0.8 | 824 | 0.9 | 1059 | 1.1 |
| Pakistan | 592 | 0.6 | 646 | 0.7 | 733 | 0.8 | 800 | 0.8 | 902 | 0.9 |
| Bangladesh | 714 | 0.7 | 761 | 0.8 | 827 | 0.9 | 846 | 0.9 | 901 | 0.9 |
| Indonesia | 902 | 0.9 | 823 | 0.9 | 778 | 0.8 | 787 | 0.8 | 796 | 0.8 |
| South Korea | 802 | 0.8 | 728 | 0.8 | 690 | 0.7 | 768 | 0.8 | 747 | 0.8 |
| Thailand | 569 | 0.6 | 535 | 0.6 | 535 | 0.6 | 528 | 0.6 | 606 | 0.6 |
| South Africa | 660 | 0.7 | 610 | 0.6 | 598 | 0.6 | 580 | 0.6 | 587 | 0.6 |
| Fiji | 641 | 0.7 | 621 | 0.7 | 590 | 0.6 | 582 | 0.6 | 552 | 0.6 |
| Ireland | 450 | 0.5 | 441 | 0.5 | 471 | 0.5 | 455 | 0.5 | 514 | 0.5 |
| Iran | 297 | 0.3 | 295 | 0.3 | 369 | 0.4 | 425 | 0.4 | 512 | 0.5 |
| United States of America | 510 | 0.5 | 473 | 0.5 | 498 | 0.5 | 514 | 0.5 | 504 | 0.5 |
| Hong Kong | 548 | 0.6 | 452 | 0.5 | 456 | 0.5 | 441 | 0.5 | 500 | 0.5 |
| Sri Lanka | 450 | 0.5 | 442 | 0.5 | 452 | 0.5 | 432 | 0.5 | 448 | 0.5 |
| Malaysia | 451 | 0.5 | 420 | 0.4 | 441 | 0.5 | 440 | 0.5 | 426 | 0.4 |
| Afghanistan | 365 | 0.4 | 340 | 0.4 | 405 | 0.4 | 415 | 0.4 | 423 | 0.4 |
| Japan | 427 | 0.4 | 392 | 0.4 | 404 | 0.4 | 363 | 0.4 | 382 | 0.4 |
| Canada | 292 | 0.3 | 333 | 0.3 | 290 | 0.3 | 307 | 0.3 | 334 | 0.3 |
| Brazil | 216 | 0.2 | 242 | 0.3 | 267 | 0.3 | 282 | 0.3 | 317 | 0.3 |
| Germany | 308 | 0.3 | 309 | 0.3 | 349 | 0.4 | 304 | 0.3 | 293 | 0.3 |
| Egypt | 209 | 0.2 | 214 | 0.2 | 242 | 0.3 | 263 | 0.3 | 260 | 0.3 |
| Cambodia | 303 | 0.3 | 267 | 0.3 | 274 | 0.3 | 290 | 0.3 | 256 | 0.3 |
| Western Samoa | 219 | 0.2 | 239 | 0.3 | 222 | 0.2 | 217 | 0.2 | 250 | 0.3 |
| Russian Federation (not USSR) | 206 | 0.2 | 169 | 0.2 | 243 | 0.3 | 240 | 0.3 | 244 | 0.3 |
| Taiwan | 184 | 0.2 | 187 | 0.2 | 191 | 0.2 | 182 | 0.2 | 244 | 0.3 |
| Sudan | 268 | 0.3 | 284 | 0.3 | 265 | 0.3 | 250 | 0.3 | 236 | 0.2 |
| France | 161 | 0.2 | 173 | 0.2 | 233 | 0.2 | 223 | 0.2 | 221 | 0.2 |
| Syria | 151 | 0.2 | 132 | 0.1 | 192 | 0.2 | 177 | 0.2 | 214 | 0.2 |
| Poland | 195 | 0.2 | 204 | 0.2 | 181 | 0.2 | 182 | 0.2 | 199 | 0.2 |
| Tonga | 169 | 0.2 | 166 | 0.2 | 148 | 0.2 | 176 | 0.2 | 158 | 0.2 |
| Colombia | 142 | 0.1 | 135 | 0.1 | 136 | 0.1 | 157 | 0.2 | 151 | 0.2 |
| Turkey | 175 | 0.2 | 179 | 0.2 | 176 | 0.2 | 173 | 0.2 | 147 | 0.2 |
| Singapore | 170 | 0.2 | 135 | 0.1 | 137 | 0.1 | 154 | 0.2 | 147 | 0.2 |
| Saudi Arabia | 132 | 0.1 | 116 | 0.1 | 120 | 0.1 | 139 | 0.1 | 138 | 0.1 |
| Chile | 147 | 0.1 | 124 | 0.1 | 135 | 0.1 | 130 | 0.1 | 137 | 0.1 |
| Serbia (includes Kosovo) | 65 | 0.1 | 60 | 0.1 | 75 | 0.1 | 83 | 0.1 | 133 | 0.1 |
| Macedonia | 123 | 0.1 | 125 | 0.1 | 150 | 0.2 | 114 | 0.1 | 128 | 0.1 |
| Bosnia and Herzegovina | 123 | 0.1 | 113 | 0.1 | 134 | 0.1 | 137 | 0.1 | 126 | 0.1 |
| Former Yugoslavia | 123 | 0.1 | 104 | 0.1 | 121 | 0.1 | 116 | 0.1 | 125 | 0.1 |
| Italy | 102 | 0.1 | 86 | 0.1 | 74 | 0.1 | 116 | 0.1 | 120 | 0.1 |
| Peru | 94 | 0.1 | 130 | 0.1 | 116 | 0.1 | 98 | 0.1 | 112 | 0.1 |
| Zimbabwe | 127 | 0.1 | 110 | 0.1 | 129 | 0.1 | 107 | 0.1 | 111 | 0.1 |
| Jordan | 95 | 0.1 | 105 | 0.1 | 116 | 0.1 | 112 | 0.1 | 105 | 0.1 |
| North Korea | 177 | 0.2 | 157 | 0.2 | 174 | 0.2 | 126 | 0.1 | 103 | 0.1 |
| Burma (Myanmar) | 100 | 0.1 | 108 | 0.1 | 146 | 0.2 | 116 | 0.1 | 102 | 0.1 |
| Nigeria | 58 | 0.1 | 56 | 0.1 | 43 | 0.0 | 74 | 0.1 | 100 | 0.1 |
| Other/Not stated | 3197 | 3.3 | 3460 | 3.6 | 3374 | 3.5 | 3350 | 3.5 | 3217 | 3.3 |
| TOTAL | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 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 2016.

Aboriginal and Torres Strait Islander mothers

The reported number of Aboriginal or Torres Strait Islander mothers giving birth increased from 3,348 in 2012 to 4,118 in 2016, an increase from 3.4% to 4.2% 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 2012–2016

| Aboriginal or Torres Strait Islander | Year | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Aboriginal or Torres Strait Islander | 3348 | 3.4 | 3492 | 3.7 | 3756 | 3.9 | 3823 | 4.0 | 4118 | 4.2 |
| Non-Aboriginal or Torres Strait Islander | 94738 | 96.5 | 91986 | 96.3 | 92158 | 96.1 | 91166 | 96.0 | 92623 | 95.2 |
| Not stated | 55 | 0.1 | 59 | 0.1 | 12 | 0.0 | 0 | 0.0 | 565 | 0.6 |
| TOTAL | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 100.0 |

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

Previous pregnancies

In recent years there has been a slight decrease in the percentage of mothers giving birth for the first time, from 44.0% in 2012 to 43.4% in 2016 (Table 6), with an equivalent increase in the proportion of mothers giving birth to a second and subsequent baby, from 56.0% in 2012 to 56.4% in 2016.

TABLE 6: PREVIOUS PREGNANCIES, NSW 2012–2016

| No. previous pregnancies (>20 weeks gestation) | Year | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| 0 | 43140 | 44.0 | 42257 | 44.2 | 42338 | 44.1 | 41547 | 43.7 | 42272 | 43.4 |
| 1-4 | 53447 | 54.5 | 51831 | 54.3 | 52070 | 54.3 | 52034 | 54.8 | 53486 | 55.0 |
| 5+ | 1518 | 1.5 | 1429 | 1.5 | 1491 | 1.6 | 1390 | 1.5 | 1426 | 1.5 |
| Not stated | 36 | 0.0 | 20 | 0.0 | 27 | 0.0 | 18 | 0.0 | 122 | 0.1 |
| TOTAL | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 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 2012 and 2016, the proportion of mothers starting antenatal care at less than 14 weeks gestation substantially increased from 61.2% to 67.8% (Table 7). In 2016, 88.8% of mothers commenced antenatal care at less than 20 weeks gestation.

TABLE 7: DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT, NSW 2012–2016

| Duration of pregnancy (weeks) | Year | | | | | | | | | |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| 0-13 | 60051 | 61.2 | 57336 | 60.0 | 57293 | 59.7 | 61073 | 64.3 | 65988 | 67.8 |
| 14-19 | 21489 | 21.9 | 22916 | 24.0 | 24062 | 25.1 | 21869 | 23.0 | 20404 | 21.0 |
| 20+ | 14063 | 14.3 | 14507 | 15.2 | 14164 | 14.8 | 11685 | 12.3 | 10033 | 10.3 |
| Not stated | 2538 | 2.6 | 778 | 0.8 | 407 | 0.4 | 362 | 0.4 | 881 | 0.9 |
| TOTAL | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 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 10.4% in 2012 to 8.3% in 2016 (Table 8). Of mothers who smoked during pregnancy in 2016, 26.7% 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 2012–2016

| Smoking in pregnancy | Year | | | | | | | | | |
|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Did not smoke | 87580 | 89.2 | 86251 | 90.3 | 87041 | 90.7 | 86547 | 91.1 | 88000 | 90.4 |
| Smoked | 10225 | 10.4 | 9285 | 9.7 | 8883 | 9.3 | 8442 | 8.9 | 8083 | 8.3 |
| Not stated | 336 | 0.3 | 1 | 0.0 | 2 | 0.0 | 0 | 0.0 | 1223 | 1.3 |
| TOTAL | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 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 2012–2016

| Cigarettes smoked in the second half of pregnancy | Year | | | | | | | | | |
|---|--------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| None | 2562 | 25.1 | 2446 | 26.3 | 2306 | 26.0 | 2292 | 27.1 | 2156 | 26.7 |
| 1 - 10 per day | 5439 | 53.2 | 5069 | 54.6 | 4948 | 55.7 | 4691 | 55.6 | 4738 | 58.6 |
| > 10 per day | 1849 | 18.1 | 1510 | 16.3 | 1319 | 14.8 | 1202 | 14.2 | 1065 | 13.2 |
| Smoked, amount not stated | 363 | 3.6 | 260 | 2.8 | 310 | 3.5 | 257 | 3.0 | 15 | 0.2 |
| Not stated | 12 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 109 | 1.3 |
| TOTAL | 10225 | 100.0 | 9285 | 100.0 | 8883 | 100.0 | 8442 | 100.0 | 8083 | 100.0 |

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

Place of birth

In 2016, the majority of mothers planned to give birth in a hospital labour ward, and 2.5% of mothers planned to give birth in a birth centre (Table 10). Eighty-six per cent of mothers who planned to give birth in a birth centre actually did so. The total number of reported planned homebirths fell from 232 in 2012 to 219 in 2016, and the reported number of planned homebirths that occurred at home fell from 202 in 2012 to 196 in 2016.

TABLE 10: MATERNAL PLACE OF BIRTH, NSW 2012–2016

| Place of birth | Year | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Hospital | 93945 | 95.7 | 92012 | 96.3 | 92596 | 96.5 | 91830 | 96.7 | 94025 | 96.6 |
| Birth centre | 2837 | 2.9 | 2392 | 2.5 | 2202 | 2.3 | 2095 | 2.2 | 2128 | 2.2 |
| Planned birth centre- hospital admission | 596 | 0.6 | 354 | 0.4 | 381 | 0.4 | 323 | 0.3 | 341 | 0.4 |
| Planned homebirth | 202 | 0.2 | 217 | 0.2 | 228 | 0.2 | 187 | 0.2 | 196 | 0.2 |
| Planned homebirth- hospital admission | 30 | 0.0 | 19 | 0.0 | 30 | 0.0 | 16 | 0.0 | 23 | 0.0 |
| Born before arrival | 519 | 0.5 | 543 | 0.6 | 488 | 0.5 | 538 | 0.6 | 542 | 0.6 |
| Not stated | 12 | 0.0 | 0 | 0.0 | 1 | 0.0 | 0 | 0.0 | 51 | 0.1 |
| TOTAL | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 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 7.4% in 2012 to 12.6% in 2016, following widespread implementation of the Australasian Diabetes in Pregnancy Society (ADIPS) Consensus Guidelines during 2016.¹ The rate of diabetes mellitus also increased from 0.7% to 0.9% (Table 11), while the rate of hypertension in pregnancy remained steady at about 5% over the 5-year period.

TABLE 11: MATERNAL HYPERTENSION OR DIABETES, NSW 2012–2016

| Condition | Year | | | | | | | | | |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Diabetes mellitus | 662 | 0.7 | 1170 | 1.2 | 1358 | 1.4 | 1398 | 1.5 | 886 | 0.9 |
| Gestational diabetes | 7292 | 7.4 | 6710 | 7.0 | 7242 | 7.5 | 7918 | 8.3 | 12260 | 12.6 |
| Chronic hypertension | 776 | 0.8 | 741 | 0.8 | 745 | 0.8 | 731 | 0.8 | 716 | 0.7 |
| Pre-eclampsia | 1675 | 1.7 | 1577 | 1.7 | 1458 | 1.5 | 1463 | 1.5 | 1557 | 1.6 |
| Gestational hypertension | 2825 | 2.9 | 2766 | 2.9 | 2810 | 2.9 | 2909 | 3.1 | 2860 | 2.9 |
| TOTAL* | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 100.0 |

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

* Total refers to number of confinements.

Labour

The rate of spontaneous onset of labour fell from 54.1% in 2012 to 48.5% in 2016 and the rate of induction of labour rose from 27.3% in 2012 to 31.1% in 2016 (Table 12). The most common reported reason for induction of labour in 2016 was prelabour rupture of membranes (16.9%), followed by prolonged pregnancy (41 or more weeks) (15.7%), diabetes (14.0%), hypertensive disease (7.4%), suspected intrauterine growth retardation (5.0%), fetal distress (2.5%) and fetal death (0.8%).

TABLE 12: ONSET AND AUGMENTATION OF LABOUR, NSW 2012–2016

| Onset of labour | Year | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Spontaneous | 38144 | 38.9 | 35970 | 37.7 | 35398 | 36.9 | 34176 | 36.0 | 33947 | 34.9 |
| Spontaneous augmented with ARM | 6389 | 6.5 | 5965 | 6.2 | 5645 | 5.9 | 5533 | 5.8 | 5932 | 6.1 |
| Spontaneous augmented with oxytocics ^{††} | 8530 | 8.7 | 7888 | 8.3 | 7680 | 8.0 | 7501 | 7.9 | 7311 | 7.5 |
| No labour | 18253 | 18.6 | 17818 | 18.7 | 18812 | 19.6 | 18827 | 19.8 | 19710 | 20.3 |
| Induced - oxytocics/ prostaglandins | 9693 | 9.9 | 10028 | 10.5 | 10343 | 10.8 | 9971 | 10.5 | 9673 | 9.9 |
| Induced - ARM only | 1729 | 1.8 | 1884 | 2.0 | 1887 | 2.0 | 1869 | 2.0 | 3335 | 3.4 |
| Induced - ARM + oxytocics/ prostaglandins | 15220 | 15.5 | 15822 | 16.6 | 15940 | 16.6 | 16719 | 17.6 | 16879 | 17.3 |
| Induced - other [†] | 163 | 0.2 | 159 | 0.2 | 216 | 0.2 | 390 | 0.4 | 384 | 0.4 |
| Not stated | 20 | 0.0 | 3 | 0.0 | 5 | 0.0 | 3 | 0.0 | 135 | 0.1 |
| TOTAL | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 100.0 |

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

ARM: artificial rupture of membranes.

May include prostaglandins for 2015 and earlier.

† 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 57.1% in 2012 to 55.2% in 2016 (Table 13). The caesarean section rate increased from 31.1% to 32.9%, while the rate of instrumental birth (forceps and vacuum extraction) remained steady at about 11.5%.

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 decreased from 45.3% in 2012 to 44.0% in 2016 and the caesarean section rate increased from 40.7% to 42.1%. Among publicly insured mothers the rate of normal vaginal birth decreased from 63.2% to 61.4% and the caesarean section rate increased from 26.1% to 27.8%.

TABLE 13: TYPE OF BIRTH, NSW 2012–2016

| Type of birth | Year | | | | | | | | | |
|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Normal vaginal | 55993 | 57.1 | 54269 | 56.8 | 53988 | 56.3 | 53203 | 56.0 | 53740 | 55.2 |
| Forceps | 4192 | 4.3 | 4349 | 4.6 | 4489 | 4.7 | 4488 | 4.7 | 4536 | 4.7 |
| Vacuum extraction | 6981 | 7.1 | 6500 | 6.8 | 6160 | 6.4 | 6122 | 6.4 | 6649 | 6.8 |
| Vaginal breech | 399 | 0.4 | 363 | 0.4 | 367 | 0.4 | 363 | 0.4 | 339 | 0.3 |
| Elective caesarean section | 18253 | 18.6 | 17818 | 18.7 | 18812 | 19.6 | 18826 | 19.8 | 19692 | 20.2 |
| Emergency caesarean section* | 12305 | 12.5 | 12236 | 12.8 | 12103 | 12.6 | 11984 | 12.6 | 12321 | 12.7 |
| Not stated | 18 | 0.0 | 2 | 0.0 | 7 | 0.0 | 3 | 0.0 | 29 | 0.0 |
| TOTAL | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 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 2012–2016#

| Insurance status-type of birth | | Year | | | | | | | | | |
|--------------------------------|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | | No. | % | No. | % | No. | % | No. | % | No. | % |
| PUBLIC | Normal vaginal | 40351 | 63.2 | 39160 | 62.8 | 38761 | 62.4 | 37823 | 62.1 | 38112 | 61.4 |
| | Forceps | 2725 | 4.3 | 2814 | 4.5 | 2827 | 4.5 | 2863 | 4.7 | 2951 | 4.8 |
| | Vacuum extraction | 3770 | 5.9 | 3529 | 5.7 | 3354 | 5.4 | 3192 | 5.2 | 3446 | 5.6 |
| | Vaginal breech | 311 | 0.5 | 277 | 0.4 | 252 | 0.4 | 275 | 0.5 | 261 | 0.4 |
| | Elective caesarean section | 9128 | 14.3 | 8877 | 14.2 | 9303 | 15.0 | 9267 | 15.2 | 9487 | 15.3 |
| | Emergency caesarean section* | 7506 | 11.8 | 7697 | 12.3 | 7653 | 12.3 | 7464 | 12.3 | 7800 | 12.6 |
| | Not stated | 7 | 0.0 | 0 | 0.0 | 3 | 0.0 | 3 | 0.0 | 23 | 0.0 |
| | TOTAL | 63798 | 100.0 | 62354 | 100.0 | 62153 | 100.0 | 60887 | 100.0 | 62080 | 100.0 |
| PRIVATE | Normal vaginal | 15391 | 45.3 | 14756 | 45.2 | 14849 | 44.7 | 14960 | 44.7 | 15301 | 44.0 |
| | Forceps | 1456 | 4.3 | 1515 | 4.6 | 1651 | 5.0 | 1609 | 4.8 | 1571 | 4.5 |
| | Vacuum extraction | 3193 | 9.4 | 2934 | 9.0 | 2781 | 8.4 | 2883 | 8.6 | 3173 | 9.1 |
| | Vaginal breech | 83 | 0.2 | 84 | 0.3 | 112 | 0.3 | 87 | 0.3 | 74 | 0.2 |
| | Elective caesarean section | 9088 | 26.8 | 8877 | 27.2 | 9449 | 28.4 | 9474 | 28.3 | 10147 | 29.2 |
| | Emergency caesarean section* | 4744 | 14.0 | 4456 | 13.7 | 4370 | 13.2 | 4434 | 13.3 | 4476 | 12.9 |
| | Not stated | 9 | 0.0 | 2 | 0.0 | 4 | 0.0 | 0 | 0.0 | 5 | 0.0 |
| | TOTAL | 33964 | 100.0 | 32624 | 100.0 | 33216 | 100.0 | 33447 | 100.0 | 34747 | 100.0 |
| TOTAL† | Normal vaginal | 55993 | 57.1 | 54269 | 56.8 | 53988 | 56.3 | 53203 | 56.0 | 53740 | 55.2 |
| | Forceps | 4192 | 4.3 | 4349 | 4.6 | 4489 | 4.7 | 4488 | 4.7 | 4536 | 4.7 |
| | Vacuum extraction | 6981 | 7.1 | 6500 | 6.8 | 6160 | 6.4 | 6122 | 6.4 | 6649 | 6.8 |
| | Vaginal breech | 399 | 0.4 | 363 | 0.4 | 367 | 0.4 | 363 | 0.4 | 339 | 0.3 |
| | Elective caesarean section | 18253 | 18.6 | 17818 | 18.7 | 18812 | 19.6 | 18826 | 19.8 | 19692 | 20.2 |
| | Emergency caesarean section* | 12305 | 12.5 | 12236 | 12.8 | 12103 | 12.6 | 11984 | 12.6 | 12321 | 12.7 |
| | Not stated | 18 | 0.0 | 2 | 0.0 | 7 | 0.0 | 3 | 0.0 | 29 | 0.0 |
| | TOTAL | 98141 | 100.0 | 95537 | 100.0 | 95926 | 100.0 | 94989 | 100.0 | 97306 | 100.0 |

Source: Maternal and Child Health Register. Centre for Epidemiology and Evidence, NSW Ministry of Health.

Figures for 2012-15 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 2012, with slightly more male babies born than females in each year. In 2016, 50,742 (51.4%) babies were male, 47,964 (48.6%) were female, and 10 were of indeterminate sex. This compares with babies born in 2012, when 51,527 (51.8%) babies were male, 47,958 (48.2%) were female, and 9 were of indeterminate sex.

Gestational age

In 2016, 7.3% of babies were born prematurely (less than 37 weeks gestation), a slight decrease from 7.6% in 2012 (Table 15). Over the 5 year period, around 92% of babies were born at term (37-41 weeks gestation). The percentage of post-term babies (42-plus weeks gestation) was 0.6% in 2012 and 1.1% in 2016.

TABLE 15: GESTATIONAL AGE, NSW 2012–2016

| Gestational age (weeks) | Year | | | | | | | | | |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| < 28 | 686 | 0.7 | 690 | 0.7 | 659 | 0.7 | 733 | 0.8 | 696 | 0.7 |
| 28-31 | 679 | 0.7 | 659 | 0.7 | 696 | 0.7 | 690 | 0.7 | 619 | 0.6 |
| 32-36 | 6184 | 6.2 | 6059 | 6.2 | 6140 | 6.3 | 6200 | 6.4 | 5865 | 5.9 |
| 37-41 | 91388 | 91.8 | 89086 | 91.9 | 89435 | 91.9 | 88397 | 91.7 | 90270 | 91.4 |
| 42 + | 569 | 0.6 | 466 | 0.5 | 391 | 0.4 | 367 | 0.4 | 1065 | 1.1 |
| Not stated | 4 | 0.0 | 11 | 0.0 | 4 | 0.0 | 4 | 0.0 | 212 | 0.2 |
| TOTAL | 99510 | 100.0 | 96971 | 100.0 | 97325 | 100.0 | 96391 | 100.0 | 98727 | 100.0 |

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

Birth weight

Since 2012, the pattern of birth weight has remained stable, with the rate of low birth weight (less than 2,500 grams) ranging from 6.1% to 6.6% (Table 16). The rate of low birth weight was 6.5% in 2016.

TABLE 16: BIRTH WEIGHT, NSW 2012–2016

| Birth weight (grams) | Year | | | | | | | | | |
|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Less than 500 | 252 | 0.3 | 232 | 0.2 | 225 | 0.2 | 283 | 0.3 | 326 | 0.3 |
| 500-999 | 428 | 0.4 | 413 | 0.4 | 433 | 0.4 | 411 | 0.4 | 411 | 0.4 |
| 1000-1499 | 521 | 0.5 | 524 | 0.5 | 552 | 0.6 | 545 | 0.6 | 534 | 0.5 |
| 1500-1999 | 1166 | 1.2 | 1129 | 1.2 | 1096 | 1.1 | 1193 | 1.2 | 1191 | 1.2 |
| 2000-2499 | 3714 | 3.7 | 3856 | 4.0 | 3839 | 3.9 | 3918 | 4.1 | 3931 | 4.0 |
| 2500-2999 | 15356 | 15.4 | 15089 | 15.6 | 15598 | 16.0 | 15931 | 16.5 | 16272 | 16.5 |
| 3000-3499 | 36647 | 36.8 | 36118 | 37.2 | 36528 | 37.5 | 36122 | 37.5 | 37290 | 37.8 |
| 3500-3999 | 30171 | 30.3 | 29191 | 30.1 | 28986 | 29.8 | 28315 | 29.4 | 29171 | 29.5 |
| 4000-4499 | 9571 | 9.6 | 8860 | 9.1 | 8606 | 8.8 | 8330 | 8.6 | 8348 | 8.5 |
| 4500+ | 1618 | 1.6 | 1460 | 1.5 | 1393 | 1.4 | 1276 | 1.3 | 1182 | 1.2 |
| Not stated | 66 | 0.1 | 99 | 0.1 | 69 | 0.1 | 67 | 0.1 | 71 | 0.1 |
| TOTAL | 99510 | 100.0 | 96971 | 100.0 | 97325 | 100.0 | 96391 | 100.0 | 98727 | 100.0 |

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

Apgar score

In 2016, 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 2012–2016*

| Apgar score | Year | | | | | | | | | |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| 0-4 | 1052 | 1.1 | 1053 | 1.1 | 1050 | 1.1 | 1025 | 1.1 | 1047 | 1.1 |
| 5-6 | 1145 | 1.2 | 1184 | 1.2 | 1206 | 1.2 | 1200 | 1.2 | 1209 | 1.2 |
| 7+ | 97081 | 97.6 | 94673 | 97.6 | 94861 | 97.5 | 93864 | 97.4 | 95844 | 97.1 |
| Not stated | 232 | 0.2 | 61 | 0.1 | 208 | 0.2 | 302 | 0.3 | 627 | 0.6 |
| TOTAL | 99510 | 100.0 | 96971 | 100.0 | 97325 | 100.0 | 96391 | 100.0 | 98727 | 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 decreased slightly from 94.0% in 2012 to 93.7% in 2016 (Table 18).

TABLE 18: HEPATITIS B DOSE GIVEN TO LIVEBORN BABIES, NSW 2012–2016

| Hepatitis B dose given | Year | | | | | | | | | |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| No | 5882 | 5.9 | 5441 | 5.6 | 5207 | 5.4 | 5366 | 5.6 | 4956 | 5.0 |
| Yes | 92957 | 94.0 | 90921 | 94.3 | 91538 | 94.6 | 90378 | 94.4 | 92013 | 93.7 |
| Not stated | 36 | 0.0 | 26 | 0.0 | 31 | 0.0 | 14 | 0.0 | 1215 | 1.2 |
| TOTAL | 98875 | 100.0 | 96388 | 100.0 | 96776 | 100.0 | 95758 | 100.0 | 98184 | 100.0 |

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

Infant feeding

The percentage of babies fully breastfed at the time of discharge from hospital decreased from 82.1% to 74.9% between 2012 and 2016. The percentage of babies that received any breastfeeding rose from 6.8% in 2012 to 13.4% in 2016. In the same 5-year period, the percentage of babies receiving infant formula only fell from 10.3% to 8.5% (Table 19).

TABLE 19: LIVE BIRTHS BY TYPE OF INFANT FEEDING, NSW 2012–2016

| Infant feeding | Year | | | | | | | | | |
|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Full breastfeeding | 81154 | 82.1 | 76912 | 79.8 | 76018 | 78.6 | 75562 | 78.9 | 73524 | 74.9 |
| Any breastfeeding | 6709 | 6.8 | 8457 | 8.8 | 10132 | 10.5 | 10047 | 10.5 | 13177 | 13.4 |
| Infant formula only | 10163 | 10.3 | 9935 | 10.3 | 9577 | 9.9 | 9270 | 9.7 | 8305 | 8.5 |
| Not stated | 849 | 0.9 | 1084 | 1.1 | 1049 | 1.1 | 879 | 0.9 | 3178 | 3.2 |
| TOTAL | 98875 | 100.0 | 96388 | 100.0 | 96776 | 100.0 | 95758 | 100.0 | 98184 | 100.0 |

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

Perinatal outcome

Across the period 2012–2016 the perinatal mortality rate decreased from 8.2 to 7.5 per 1,000 births (Table 20). In 2016, 73.0% of all reported perinatal deaths were stillbirths and 27.0% were neonatal deaths.

In 2016, of the 744 perinatal deaths in NSW, 684 (92.0%) were reported among planned hospital births, 29 (3.9%) among planned birth centre births and 14 deaths were among babies born before arrival at hospital (1.9%). There were no perinatal deaths reported among planned or actual homebirths.

TABLE 20: PERINATAL OUTCOMES, NSW 2012–2016[#]

| 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. |
| 2012 | 98657 | 99.1 | 600 | 0.6 | 212 | 0.2 | 6 | 0.0 | 35 | 0.0 | 99510 | 100.0 | 8.2 |
| 2013 | 96174 | 99.2 | 562 | 0.6 | 212 | 0.2 | 2 | 0.0 | 21 | 0.0 | 96971 | 100.0 | 8.0 |
| 2014 | 96553 | 99.2 | 534 | 0.5 | 221 | 0.2 | 2 | 0.0 | 15 | 0.0 | 97325 | 100.0 | 7.8 |
| 2015 | 95571 | 99.1 | 602 | 0.6 | 186 | 0.2 | 1 | 0.0 | 31 | 0.0 | 96391 | 100.0 | 8.2 |
| 2016 | 97983 | 99.2 | 543 | 0.6 | 201 | 0.2 | 0 | 0.0 | 0 | 0.0 | 98727 | 100.0 | 7.5 |

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 1990–2015, 234 deaths were reported among pregnant women or women who gave birth less than 6 weeks previously. Of these, 69 (29.5%) died of incidental causes not related to the pregnancy or its management, 101 (43.2%) deaths were found to be directly due to pregnancy or its management, and 60 (25.6%) 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 (Table 21). Table 22 shows maternal deaths by cause in NSW for 2015.

TABLE 21: MATERNAL DEATHS BY YEAR, NSW 1990–2015*

| Year | Classification | | | | | | | | | |
|-------|----------------|---------------|----------|---------------|-------------------------|---------------|------------|---------------|-------|---------------|
| | Direct | | Indirect | | Total Direct & Indirect | | Incidental | | TOTAL | |
| | No. | Ratio/100,000 | No. | Ratio/100,000 | No. | Ratio/100,000 | No. | Ratio/100,000 | No. | Ratio/100,000 |
| 1990 | 4 | 4.6 | 6 | 6.9 | 10 | 11.6 | 2 | 2.3 | 12 | 13.9 |
| 1991 | 4 | 4.7 | 1 | 1.2 | 5 | 5.8 | 1 | 1.2 | 6 | 7.0 |
| 1992 | 5 | 5.7 | 1 | 1.1 | 6 | 6.8 | 5 | 5.7 | 11 | 12.5 |
| 1993 | 6 | 6.9 | 1 | 1.2 | 7 | 8.1 | 6 | 6.9 | 13 | 15.0 |
| 1994 | 8 | 9.2 | 1 | 1.2 | 9 | 10.4 | 3 | 3.5 | 12 | 13.8 |
| 1995 | 7 | 8.1 | 2 | 2.3 | 9 | 10.4 | 6 | 7.0 | 15 | 17.4 |
| 1996 | 6 | 7.0 | 1 | 1.2 | 7 | 8.2 | 5 | 5.9 | 12 | 14.1 |
| 1997 | 7 | 8.1 | 2 | 2.3 | 9 | 10.5 | 5 | 5.8 | 14 | 16.1 |
| 1998 | 4 | 4.7 | 4 | 4.7 | 8 | 9.4 | 3 | 3.5 | 11 | 12.9 |
| 1999† | 4 | 4.7 | 1 | 1.2 | 5 | 5.8 | 6 | 7.0 | 12 | 14.0 |
| 2000 | 4 | 4.7 | 5 | 5.9 | 9 | 10.7 | 1 | 1.2 | 10 | 11.9 |
| 2001 | 4 | 4.7 | 4 | 4.7 | 8 | 9.5 | 1 | 1.2 | 9 | 10.7 |
| 2002 | 2 | 2.4 | 2 | 2.4 | 4 | 4.7 | 1 | 1.2 | 5 | 5.9 |
| 2003 | 1 | 1.2 | 3 | 3.5 | 4 | 4.7 | 3 | 3.5 | 7 | 8.2 |
| 2004† | 2 | 2.3 | 2 | 2.3 | 4 | 4.7 | 2 | 2.3 | 7 | 8.2 |
| 2005 | 4 | 4.5 | 4 | 4.5 | 8 | 9.0 | 2 | 2.2 | 11 | 12.3 |
| 2006 | 4 | 4.4 | 3 | 3.3 | 7 | 7.7 | 3 | 3.3 | 10 | 11.0 |
| 2007 | 1 | 1.1 | 0 | 0.0 | 1 | 1.1 | 0 | 0.0 | 1 | 1.1 |
| 2008 | 0 | 0.0 | 4 | 4.2 | 4 | 4.2 | 1 | 1.1 | 5 | 5.3 |
| 2009 | 5 | 5.3 | 2 | 2.1 | 7 | 7.4 | 3 | 3.2 | 10 | 10.5 |
| 2010 | 4 | 4.2 | 2 | 2.1 | 6 | 6.3 | 2 | 2.1 | 8 | 8.4 |
| 2011 | 3 | 3.1 | 5 | 5.2 | 8 | 8.3 | 2 | 2.1 | 10 | 10.4 |
| 2012 | 3 | 3.1 | 2 | 2.0 | 5 | 5.1 | 2 | 2.0 | 7 | 7.1 |
| 2013 | 2 | 2.1 | 1 | 1.0 | 3 | 3.1 | 2 | 2.1 | 5 | 5.2 |
| 2014 | 4 | 4.2 | 1 | 1.0 | 5 | 5.2 | 2 | 2.1 | 7 | 7.3 |
| 2015† | 3 | 3.2 | 0 | 0.0 | 3 | 3.2 | 0 | 0.0 | 4 | 4.2 |

Source: NSW Maternal and Perinatal Mortality Review Committee.

Includes all deaths of women who were pregnant at the time of death, or who died within 42 days of childbirth. Direct deaths include those resulting from obstetric complications of the pregnant state, including its management. Indirect deaths include those resulting from pre-existing disease or disease which developed during pregnancy and was not due to direct obstetric causes but which may have been aggravated by the physiological effects of pregnancy. Incidental deaths are those where the pregnancy is unlikely to have contributed significantly to the death.²

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

TABLE 22: MATERNAL DEATHS BY CAUSE, NSW 2015*

| Classification | Cause | No. |
|----------------|----------------------------|----------|
| Direct | E. Coli septicemia | 1 |
| Direct | Ruptured ectopic pregnancy | 1 |
| Direct | Pulmonary embolism | 1 |
| TOTAL† | | 4 |

Source: NSW Maternal and Perinatal Mortality Review Committee.

Includes all deaths of women who were pregnant at the time of death, or who died within 42 days of childbirth. Direct deaths include those resulting from obstetric complications of the pregnant state, including its management. Indirect deaths include those resulting from pre-existing disease or disease which developed during pregnancy and was not due to direct obstetric causes but which may have been aggravated by the physiological effects of pregnancy. Incidental deaths are those where the pregnancy is unlikely to have contributed significantly to the death.²

† Total includes one death that was unable to be classified.

References

1. Australasian Diabetes in Pregnancy Society. *ADIPS Consensus Guidelines for the Testing and Diagnosis of Gestational Diabetes Mellitus in Australia 2014*. Available at www.adips.org. Accessed 12 January 2018.
2. Humphrey MD, Bonello MR, Chugtai A, Macalodow A, Harris K & Chambers GM. *Maternal deaths in Australia 2008–2012*. Maternal deaths series no. 5 Cat. No. PER 70. Canberra: AIHW, 2015.

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 2016 were resident in the Western Sydney Local Health District ($n = 14,667$, 15.1%), followed by the South Western Sydney Local Health District ($n = 13,750$, 14.1%) and the South Eastern Sydney Local Health District ($n = 11,318$, 11.6%) (Table 23).

Maternal age

In 2016, the proportion of women giving birth at less than 20 years of age varied from 0.1% in the Northern Sydney Local Health District to 5.2% in the Mid North Coast Local Health District, while the proportion of mothers giving birth at 35 years of age or more ranged from 8.5% in the Far West Local Health District to 38.2% in the Northern Sydney Local Health District (Table 23).

TABLE 23: MATERNAL AGE BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016

| Local Health District | Maternal age (Years) | | | | | | | | | | | | | | TOTAL | | | |
|-----------------------|----------------------|------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|------------|------------|------------|------------|------------|--------------|--------------|
| | 12–19 | | 20–24 | | 25–29 | | 30–34 | | 35–39 | | 40–44 | | 45+ | | Not stated | | No. | % |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | | | | |
| Sydney | 44 | 0.5 | 475 | 5.7 | 1727 | 20.7 | 3379 | 40.5 | 2118 | 25.4 | 542 | 6.5 | 56 | 0.7 | 4 | 0.0 | 8345 | 100.0 |
| South Western Sydney | 297 | 2.2 | 1921 | 14.0 | 4180 | 30.4 | 4630 | 33.7 | 2196 | 16.0 | 482 | 3.5 | 39 | 0.3 | 5 | 0.0 | 13750 | 100.0 |
| South Eastern Sydney | 54 | 0.5 | 520 | 4.6 | 2279 | 20.1 | 4750 | 42.0 | 2954 | 26.1 | 709 | 6.3 | 50 | 0.4 | 2 | 0.0 | 11318 | 100.0 |
| Illawarra Shoalhaven | 142 | 3.1 | 580 | 12.8 | 1361 | 30.0 | 1541 | 34.0 | 736 | 16.2 | 165 | 3.6 | 8 | 0.2 | 1 | 0.0 | 4534 | 100.0 |
| Western Sydney | 219 | 1.5 | 1529 | 10.4 | 4267 | 29.1 | 5649 | 38.5 | 2509 | 17.1 | 452 | 3.1 | 35 | 0.2 | 7 | 0.0 | 14667 | 100.0 |
| Nepean Blue Mountains | 142 | 2.8 | 742 | 14.7 | 1643 | 32.6 | 1639 | 32.5 | 699 | 13.9 | 166 | 3.3 | 10 | 0.2 | 1 | 0.0 | 5042 | 100.0 |
| Northern Sydney | 15 | 0.1 | 252 | 2.3 | 1777 | 16.4 | 4630 | 42.9 | 3289 | 30.4 | 779 | 7.2 | 62 | 0.6 | 0 | 0.0 | 10804 | 100.0 |
| Central Coast | 108 | 2.8 | 553 | 14.5 | 1123 | 29.4 | 1221 | 32.0 | 625 | 16.4 | 153 | 4.0 | 19 | 0.5 | 14 | 0.4 | 3816 | 100.0 |
| Hunter New England | 462 | 4.3 | 1832 | 17.1 | 3205 | 30.0 | 3359 | 31.4 | 1517 | 14.2 | 292 | 2.7 | 23 | 0.2 | 0 | 0.0 | 10690 | 100.0 |
| Northern NSW | 97 | 4.2 | 407 | 17.5 | 683 | 29.4 | 670 | 28.8 | 392 | 16.8 | 73 | 3.1 | 5 | 0.2 | 0 | 0.0 | 2327 | 100.0 |
| Mid North Coast | 99 | 5.2 | 364 | 19.2 | 541 | 28.5 | 564 | 29.7 | 262 | 13.8 | 64 | 3.4 | 6 | 0.3 | 0 | 0.0 | 1900 | 100.0 |
| Southern NSW | 62 | 4.5 | 234 | 17.1 | 436 | 31.8 | 429 | 31.3 | 172 | 12.5 | 36 | 2.6 | 3 | 0.2 | 0 | 0.0 | 1372 | 100.0 |
| Murrumbidgee | 112 | 4.7 | 439 | 18.5 | 733 | 30.9 | 739 | 31.2 | 280 | 11.8 | 65 | 2.7 | 2 | 0.1 | 0 | 0.0 | 2370 | 100.0 |
| Western NSW | 192 | 5.1 | 792 | 21.2 | 1178 | 31.5 | 1050 | 28.1 | 438 | 11.7 | 85 | 2.3 | 5 | 0.1 | 0 | 0.0 | 3740 | 100.0 |
| Far West | 12 | 5.1 | 58 | 24.8 | 87 | 37.2 | 57 | 24.4 | 16 | 6.8 | 4 | 1.7 | 0 | 0.0 | 0 | 0.0 | 234 | 100.0 |
| Other-not stated | 57 | 2.4 | 309 | 12.9 | 706 | 29.5 | 819 | 34.2 | 424 | 17.7 | 75 | 3.1 | 4 | 0.2 | 3 | 0.1 | 2397 | 100.0 |
| TOTAL | 2114 | 2.2 | 11007 | 11.3 | 25926 | 26.6 | 35126 | 36.1 | 18627 | 19.1 | 4142 | 4.3 | 327 | 0.3 | 37 | 0.0 | 97306 | 100.0 |

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

Maternal country of birth

Sixty-eight per cent of women who gave birth in NSW in 2016 were born in English speaking countries, 20.8% were born in Asian countries, and 5.1% were born in the Middle East or Africa (Table 24). The highest proportions of mothers born in non-English speaking countries were resident in the Western Sydney, Sydney and South Western Sydney Local Health Districts.

TABLE 24: MATERNAL COUNTRY OF BIRTH BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016

| Local Health District | Country of birth group | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|------------------------|-------------|-------------------------|------------|-----------------------------------|------------|-----------------|------------|---------------------------|------------|---|------------|----------------------|------------|-----------------|------------|-----------------|------------|---------------|------------|--------------|--------------|
| | English speaking | | Central & South America | | Melanesia, Micronesia & Polynesia | | Southern Europe | | Western & Northern Europe | | Eastern Europe, Russia, Central Asian & Baltic States | | Middle East & Africa | | South East Asia | | North East Asia | | Southern Asia | | TOTAL† | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 4466 | 53.5 | 111 | 1.3 | 93 | 1.1 | 123 | 1.5 | 107 | 1.3 | 129 | 1.5 | 465 | 5.6 | 714 | 8.6 | 1167 | 14.0 | 952 | 11.4 | 8345 | 100.0 |
| South Western Sydney | 7953 | 57.8 | 148 | 1.1 | 407 | 3.0 | 243 | 1.8 | 50 | 0.4 | 103 | 0.7 | 1949 | 14.2 | 1576 | 11.5 | 434 | 3.2 | 864 | 6.3 | 13750 | 100.0 |
| South Eastern Sydney | 7099 | 62.7 | 244 | 2.2 | 67 | 0.6 | 198 | 1.7 | 249 | 2.2 | 257 | 2.3 | 361 | 3.2 | 784 | 6.9 | 1196 | 10.6 | 699 | 6.2 | 11318 | 100.0 |
| Illawarra Shoalhaven | 3975 | 87.7 | 24 | 0.5 | 13 | 0.3 | 43 | 0.9 | 25 | 0.6 | 17 | 0.4 | 123 | 2.7 | 109 | 2.4 | 95 | 2.1 | 79 | 1.7 | 4534 | 100.0 |
| Western Sydney | 6512 | 44.4 | 85 | 0.6 | 347 | 2.4 | 94 | 0.6 | 60 | 0.4 | 388 | 2.6 | 1294 | 8.8 | 929 | 6.3 | 1699 | 11.6 | 3214 | 21.9 | 14667 | 100.0 |
| Nepean Blue Mountains | 4302 | 85.3 | 19 | 0.4 | 51 | 1.0 | 17 | 0.3 | 22 | 0.4 | 39 | 0.8 | 127 | 2.5 | 148 | 2.9 | 74 | 1.5 | 213 | 4.2 | 5042 | 100.0 |
| Northern Sydney | 6384 | 59.1 | 262 | 2.4 | 40 | 0.4 | 144 | 1.3 | 215 | 2.0 | 218 | 2.0 | 305 | 2.8 | 605 | 5.6 | 1835 | 17.0 | 686 | 6.3 | 10804 | 100.0 |
| Central Coast | 3452 | 90.5 | 18 | 0.5 | 12 | 0.3 | 7 | 0.2 | 29 | 0.8 | 24 | 0.6 | 27 | 0.7 | 77 | 2.0 | 76 | 2.0 | 69 | 1.8 | 3816 | 100.0 |
| Hunter New England | 9913 | 92.7 | 32 | 0.3 | 30 | 0.3 | 25 | 0.2 | 55 | 0.5 | 46 | 0.4 | 115 | 1.1 | 162 | 1.5 | 100 | 0.9 | 189 | 1.8 | 10690 | 100.0 |
| Northern NSW | 2100 | 90.2 | 18 | 0.8 | 2 | 0.1 | 9 | 0.4 | 34 | 1.5 | 12 | 0.5 | 12 | 0.5 | 50 | 2.1 | 24 | 1.0 | 30 | 1.3 | 2327 | 100.0 |
| Mid North Coast | 1705 | 89.7 | 3 | 0.2 | 3 | 0.2 | 4 | 0.2 | 10 | 0.5 | 8 | 0.4 | 26 | 1.4 | 43 | 2.3 | 21 | 1.1 | 55 | 2.9 | 1900 | 100.0 |
| Southern NSW | 1252 | 91.3 | 2 | 0.1 | 3 | 0.2 | 13 | 0.9 | 2 | 0.1 | 3 | 0.2 | 14 | 1.0 | 32 | 2.3 | 10 | 0.7 | 37 | 2.7 | 1372 | 100.0 |
| Murrumbidgee | 2123 | 89.6 | 0 | 0.0 | 28 | 1.2 | 2 | 0.1 | 7 | 0.3 | 6 | 0.3 | 31 | 1.3 | 42 | 1.8 | 20 | 0.8 | 107 | 4.5 | 2370 | 100.0 |
| Western NSW | 3482 | 93.1 | 3 | 0.1 | 7 | 0.2 | 8 | 0.2 | 13 | 0.3 | 9 | 0.2 | 20 | 0.5 | 53 | 1.4 | 25 | 0.7 | 110 | 2.9 | 3740 | 100.0 |
| Far West | 222 | 94.9 | 0 | 0.0 | 1 | 0.4 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.4 | 5 | 2.1 | 0 | 0.0 | 3 | 1.3 | 234 | 100.0 |
| Other-not stated | 1338 | 55.8 | 33 | 1.4 | 42 | 1.8 | 25 | 1.0 | 18 | 0.8 | 33 | 1.4 | 78 | 3.3 | 189 | 7.9 | 331 | 13.8 | 260 | 10.8 | 2397 | 100.0 |
| TOTAL | 66278 | 68.1 | 1002 | 1.0 | 1146 | 1.2 | 955 | 1.0 | 896 | 0.9 | 1292 | 1.3 | 4948 | 5.1 | 5518 | 5.7 | 7107 | 7.3 | 7567 | 7.8 | 97306 | 100.0 |

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

† Includes 597 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 2016, 4.2% of mothers were reported to be Aboriginal or Torres Strait Islander (Table 25). The reported proportion of Aboriginal or Torres Strait Islander mothers varied from 0.4% in the Northern Sydney Local Health District to 17.9% in the Far West Local Health District.

TABLE 25: ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016

| Local Health District | Aboriginal or Torres Strait Islander | | Non-Aboriginal or Torres Strait Islander | | Not stated | | TOTAL | |
|-----------------------|--------------------------------------|------------|--|-------------|------------|------------|--------------|--------------|
| | No. | % | No. | % | No. | % | No. | % |
| Sydney | 86 | 1.0 | 8234 | 98.7 | 25 | 0.3 | 8345 | 100.0 |
| South Western Sydney | 318 | 2.3 | 13411 | 97.5 | 21 | 0.2 | 13750 | 100.0 |
| South Eastern Sydney | 112 | 1.0 | 11186 | 98.8 | 20 | 0.2 | 11318 | 100.0 |
| Illawarra Shoalhaven | 241 | 5.3 | 4290 | 94.6 | 3 | 0.1 | 4534 | 100.0 |
| Western Sydney | 258 | 1.8 | 14347 | 97.8 | 62 | 0.4 | 14667 | 100.0 |
| Nepean Blue Mountains | 232 | 4.6 | 4805 | 95.3 | 5 | 0.1 | 5042 | 100.0 |
| Northern Sydney | 40 | 0.4 | 10497 | 97.2 | 267 | 2.5 | 10804 | 100.0 |
| Central Coast | 226 | 5.9 | 3576 | 93.7 | 14 | 0.4 | 3816 | 100.0 |
| Hunter New England | 1052 | 9.8 | 9599 | 89.8 | 39 | 0.4 | 10690 | 100.0 |
| Northern NSW | 225 | 9.7 | 2092 | 89.9 | 10 | 0.4 | 2327 | 100.0 |
| Mid North Coast | 234 | 12.3 | 1661 | 87.4 | 5 | 0.3 | 1900 | 100.0 |
| Southern NSW | 96 | 7.0 | 1269 | 92.5 | 7 | 0.5 | 1372 | 100.0 |
| Murrumbidgee | 215 | 9.1 | 2141 | 90.3 | 14 | 0.6 | 2370 | 100.0 |
| Western NSW | 630 | 16.8 | 3106 | 83.0 | 4 | 0.1 | 3740 | 100.0 |
| Far West | 42 | 17.9 | 192 | 82.1 | 0 | 0.0 | 234 | 100.0 |
| Other-not stated | 111 | 4.6 | 2217 | 92.5 | 69 | 2.9 | 2397 | 100.0 |
| TOTAL | 4118 | 4.2 | 92623 | 95.2 | 565 | 0.6 | 97306 | 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 2016, 88.8% of mothers commenced antenatal care prior to 20 weeks gestation and 67.8% commenced antenatal care prior to 14 weeks gestation. The percentage of mothers commencing antenatal care prior to 20 weeks gestation varied from 72.7% in the Southern NSW Local Health District to 95.7% in the Sydney Local Health District (Table 26).

TABLE 26: DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016

| Local Health District | Duration of pregnancy at first antenatal visit (weeks) | | | | | | | | | |
|-----------------------|--|-------------|--------------|-------------|--------------|-------------|------------|------------|--------------|--------------|
| | 0–13 | | 14–19 | | 20+ | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 6932 | 83.1 | 1050 | 12.6 | 336 | 4.0 | 27 | 0.3 | 8345 | 100.0 |
| South Western Sydney | 9595 | 69.8 | 2377 | 17.3 | 1450 | 10.5 | 328 | 2.4 | 13750 | 100.0 |
| South Eastern Sydney | 7421 | 65.6 | 3032 | 26.8 | 835 | 7.4 | 30 | 0.3 | 11318 | 100.0 |
| Illawarra Shoalhaven | 2069 | 45.6 | 1461 | 32.2 | 982 | 21.7 | 22 | 0.5 | 4534 | 100.0 |
| Western Sydney | 8153 | 55.6 | 4116 | 28.1 | 2291 | 15.6 | 107 | 0.7 | 14667 | 100.0 |
| Nepean Blue Mountains | 2948 | 58.5 | 1486 | 29.5 | 568 | 11.3 | 40 | 0.8 | 5042 | 100.0 |
| Northern Sydney | 7228 | 66.9 | 2917 | 27.0 | 628 | 5.8 | 31 | 0.3 | 10804 | 100.0 |
| Central Coast | 2267 | 59.4 | 987 | 25.9 | 552 | 14.5 | 10 | 0.3 | 3816 | 100.0 |
| Hunter New England | 9278 | 86.8 | 772 | 7.2 | 530 | 5.0 | 110 | 1.0 | 10690 | 100.0 |
| Northern NSW | 1895 | 81.4 | 246 | 10.6 | 153 | 6.6 | 33 | 1.4 | 2327 | 100.0 |
| Mid North Coast | 1533 | 80.7 | 153 | 8.1 | 195 | 10.3 | 19 | 1.0 | 1900 | 100.0 |
| Southern NSW | 605 | 44.1 | 393 | 28.6 | 363 | 26.5 | 11 | 0.8 | 1372 | 100.0 |
| Murrumbidgee | 1515 | 63.9 | 456 | 19.2 | 390 | 16.5 | 9 | 0.4 | 2370 | 100.0 |
| Western NSW | 2688 | 71.9 | 599 | 16.0 | 405 | 10.8 | 48 | 1.3 | 3740 | 100.0 |
| Far West | 113 | 48.3 | 97 | 41.5 | 19 | 8.1 | 5 | 2.1 | 234 | 100.0 |
| Other-not stated | 1748 | 72.9 | 262 | 10.9 | 336 | 14.0 | 51 | 2.1 | 2397 | 100.0 |
| TOTAL | 65988 | 67.8 | 20404 | 21.0 | 10033 | 10.3 | 881 | 0.9 | 97306 | 100.0 |

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

Smoking in pregnancy

In 2016, 6.0% of mothers reported smoking in the second half of pregnancy (Table 27). The lowest rate was reported among mothers resident in the Northern Sydney Local Health District (0.5%) and the highest rate was reported among residents of the Far West Local Health District (26.5%).

TABLE 27: CIGARETTES SMOKED IN THE SECOND HALF OF PREGNANCY BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016

| 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 | 8055 | 96.5 | 112 | 1.3 | 24 | 0.3 | 0 | 0.0 | 154 | 1.8 | 8345 | 100.0 |
| South Western Sydney | 12436 | 90.4 | 625 | 4.5 | 132 | 1.0 | 1 | 0.0 | 556 | 4.0 | 13750 | 100.0 |
| South Eastern Sydney | 10994 | 97.1 | 134 | 1.2 | 25 | 0.2 | 1 | 0.0 | 164 | 1.4 | 11318 | 100.0 |
| Illawarra Shoalhaven | 4154 | 91.6 | 303 | 6.7 | 52 | 1.1 | 9 | 0.2 | 16 | 0.4 | 4534 | 100.0 |
| Western Sydney | 13996 | 95.4 | 498 | 3.4 | 105 | 0.7 | 1 | 0.0 | 67 | 0.5 | 14667 | 100.0 |
| Nepean Blue Mountains | 4656 | 92.3 | 293 | 5.8 | 71 | 1.4 | 0 | 0.0 | 22 | 0.4 | 5042 | 100.0 |
| Northern Sydney | 10711 | 99.1 | 45 | 0.4 | 5 | 0.0 | 2 | 0.0 | 41 | 0.4 | 10804 | 100.0 |
| Central Coast | 3410 | 89.4 | 264 | 6.9 | 70 | 1.8 | 0 | 0.0 | 72 | 1.9 | 3816 | 100.0 |
| Hunter New England | 9322 | 87.2 | 1031 | 9.6 | 258 | 2.4 | 0 | 0.0 | 79 | 0.7 | 10690 | 100.0 |
| Northern NSW | 2066 | 88.8 | 209 | 9.0 | 29 | 1.2 | 0 | 0.0 | 23 | 1.0 | 2327 | 100.0 |
| Mid North Coast | 1637 | 86.2 | 195 | 10.3 | 47 | 2.5 | 0 | 0.0 | 21 | 1.1 | 1900 | 100.0 |
| Southern NSW | 1173 | 85.5 | 152 | 11.1 | 32 | 2.3 | 0 | 0.0 | 15 | 1.1 | 1372 | 100.0 |
| Murrumbidgee | 2064 | 87.1 | 238 | 10.0 | 56 | 2.4 | 1 | 0.0 | 11 | 0.5 | 2370 | 100.0 |
| Western NSW | 3128 | 83.6 | 448 | 12.0 | 115 | 3.1 | 0 | 0.0 | 49 | 1.3 | 3740 | 100.0 |
| Far West | 168 | 71.8 | 49 | 20.9 | 13 | 5.6 | 0 | 0.0 | 4 | 1.7 | 234 | 100.0 |
| Other-not stated | 2186 | 91.2 | 142 | 5.9 | 31 | 1.3 | 0 | 0.0 | 38 | 1.6 | 2397 | 100.0 |
| TOTAL | 90156 | 92.7 | 4738 | 4.9 | 1065 | 1.1 | 15 | 0.0 | 1332 | 1.4 | 97306 | 100.0 |

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

Place of birth

Ninety-seven per cent of mothers chose to give birth in a hospital birthing suite in 2016, compared to 2.5% who planned a birth centre birth and 0.2% who planned a home birth (Table 28). Planned birth centre births were most commonly reported in the Hunter New England Local Health District.

TABLE 28: PLACE OF BIRTH BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016

| Local Health District | Place of birth | | | | | | | | | | TOTAL† | | | |
|-----------------------|----------------|-------------|--------------|------------|---|------------|-------------------|------------|--------------------------------------|------------|------------|------------|---------------------|--------------|
| | Hospital | | Birth centre | | Planned birth centre–hospital admission | | Planned homebirth | | Planned homebirth–hospital admission | | | | Born before arrival | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 7980 | 95.6 | 299 | 3.6 | 13 | 0.2 | 4 | 0.0 | 1 | 0.0 | 37 | 0.4 | 8345 | 100.0 |
| South Western Sydney | 13597 | 98.9 | 23 | 0.2 | 12 | 0.1 | 7 | 0.1 | 2 | 0.0 | 80 | 0.6 | 13750 | 100.0 |
| South Eastern Sydney | 10778 | 95.2 | 369 | 3.3 | 119 | 1.1 | 6 | 0.1 | 1 | 0.0 | 42 | 0.4 | 11318 | 100.0 |
| Illawarra Shoalhaven | 4465 | 98.5 | 19 | 0.4 | 6 | 0.1 | 17 | 0.4 | 3 | 0.1 | 24 | 0.5 | 4534 | 100.0 |
| Western Sydney | 14334 | 97.7 | 226 | 1.5 | 8 | 0.1 | 8 | 0.1 | 0 | 0.0 | 90 | 0.6 | 14667 | 100.0 |
| Nepean Blue Mountains | 4952 | 98.2 | 53 | 1.1 | 4 | 0.1 | 5 | 0.1 | 0 | 0.0 | 28 | 0.6 | 5042 | 100.0 |
| Northern Sydney | 10610 | 98.2 | 123 | 1.1 | 18 | 0.2 | 12 | 0.1 | 3 | 0.0 | 38 | 0.4 | 10804 | 100.0 |
| Central Coast | 3693 | 96.8 | 87 | 2.3 | 6 | 0.2 | 4 | 0.1 | 0 | 0.0 | 25 | 0.7 | 3816 | 100.0 |
| Hunter New England | 9817 | 91.8 | 639 | 6.0 | 75 | 0.7 | 70 | 0.7 | 7 | 0.1 | 82 | 0.8 | 10690 | 100.0 |
| Northern NSW | 2119 | 91.1 | 156 | 6.7 | 2 | 0.1 | 29 | 1.2 | 3 | 0.1 | 18 | 0.8 | 2327 | 100.0 |
| Mid North Coast | 1868 | 98.3 | 17 | 0.9 | 4 | 0.2 | 0 | 0.0 | 0 | 0.0 | 11 | 0.6 | 1900 | 100.0 |
| Southern NSW | 1343 | 97.9 | 8 | 0.6 | 4 | 0.3 | 1 | 0.1 | 0 | 0.0 | 16 | 1.2 | 1372 | 100.0 |
| Murrumbidgee | 2330 | 98.3 | 15 | 0.6 | 12 | 0.5 | 1 | 0.0 | 1 | 0.0 | 10 | 0.4 | 2370 | 100.0 |
| Western NSW | 3691 | 98.7 | 24 | 0.6 | 4 | 0.1 | 0 | 0.0 | 0 | 0.0 | 20 | 0.5 | 3740 | 100.0 |
| Far West | 229 | 97.9 | 1 | 0.4 | 0 | 0.0 | 1 | 0.4 | 0 | 0.0 | 2 | 0.9 | 234 | 100.0 |
| Other-not stated | 2219 | 92.6 | 69 | 2.9 | 54 | 2.3 | 31 | 1.3 | 2 | 0.1 | 19 | 0.8 | 2397 | 100.0 |
| TOTAL | 94025 | 96.6 | 2128 | 2.2 | 341 | 0.4 | 196 | 0.2 | 23 | 0.0 | 542 | 0.6 | 97306 | 100.0 |

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

† Includes 51 mothers in NSW for whom place of birth was not stated.

Labour

In 2016, the onset of labour was spontaneous in 48.5% of confinements (Table 29). Labour was induced in 31.1% of confinements and no labour (elective caesarean section) was reported in 20.3%. The rate of spontaneous onset of labour was highest among residents of the Southern NSW Local Health District (60.1%). The highest rate of induction of labour was among residents of the Nepean Blue Mountains Local Health District (35.6%).

TABLE 29: ONSET AND AUGMENTATION OF LABOUR BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016

| Local Health District | Onset of labour | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----------------|-------------|--------------------------------|------------|---|------------|--------------|-------------|----------------------------------|------------|------------------|------------|--|-------------|----------------------------|------------|------------|------------|--------------|--------------|
| | Spontaneous | | Spontaneous augmented with ARM | | Spontaneous augmented with oxytocics [†] | | 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 | 2504 | 30.0 | 541 | 6.5 | 867 | 10.4 | 1897 | 22.7 | 1074 | 12.9 | 392 | 4.7 | 1025 | 12.3 | 37 | 0.4 | 8 | 0.1 | 8345 | 100.0 |
| South Western Sydney | 4958 | 36.1 | 1151 | 8.4 | 1124 | 8.2 | 2553 | 18.6 | 1755 | 12.8 | 705 | 5.1 | 1420 | 10.3 | 61 | 0.4 | 23 | 0.2 | 13750 | 100.0 |
| South Eastern Sydney | 3676 | 32.5 | 696 | 6.1 | 970 | 8.6 | 2495 | 22.0 | 1149 | 10.2 | 402 | 3.6 | 1872 | 16.5 | 42 | 0.4 | 16 | 0.1 | 11318 | 100.0 |
| Illawarra Shoalhaven | 1548 | 34.1 | 237 | 5.2 | 309 | 6.8 | 899 | 19.8 | 414 | 9.1 | 88 | 1.9 | 1030 | 22.7 | 8 | 0.2 | 1 | 0.0 | 4534 | 100.0 |
| Western Sydney | 5120 | 34.9 | 994 | 6.8 | 1053 | 7.2 | 2839 | 19.4 | 1274 | 8.7 | 262 | 1.8 | 3048 | 20.8 | 56 | 0.4 | 21 | 0.1 | 14667 | 100.0 |
| Nepean Blue Mountains | 1604 | 31.8 | 293 | 5.8 | 192 | 3.8 | 1143 | 22.7 | 414 | 8.2 | 156 | 3.1 | 1197 | 23.7 | 29 | 0.6 | 14 | 0.3 | 5042 | 100.0 |
| Northern Sydney | 3532 | 32.7 | 566 | 5.2 | 1035 | 9.6 | 2604 | 24.1 | 950 | 8.8 | 244 | 2.3 | 1842 | 17.0 | 29 | 0.3 | 2 | 0.0 | 10804 | 100.0 |
| Central Coast | 1380 | 36.2 | 188 | 4.9 | 329 | 8.6 | 714 | 18.7 | 375 | 9.8 | 67 | 1.8 | 754 | 19.8 | 8 | 0.2 | 1 | 0.0 | 3816 | 100.0 |
| Hunter New England | 3844 | 36.0 | 538 | 5.0 | 499 | 4.7 | 1983 | 18.6 | 976 | 9.1 | 610 | 5.7 | 2110 | 19.7 | 96 | 0.9 | 34 | 0.3 | 10690 | 100.0 |
| Northern NSW | 1092 | 46.9 | 130 | 5.6 | 163 | 7.0 | 286 | 12.3 | 168 | 7.2 | 66 | 2.8 | 420 | 18.0 | 2 | 0.1 | 0 | 0.0 | 2327 | 100.0 |
| Mid North Coast | 757 | 39.8 | 81 | 4.3 | 103 | 5.4 | 389 | 20.5 | 173 | 9.1 | 40 | 2.1 | 352 | 18.5 | 0 | 0.0 | 5 | 0.3 | 1900 | 100.0 |
| Southern NSW | 665 | 48.5 | 62 | 4.5 | 98 | 7.1 | 204 | 14.9 | 108 | 7.9 | 51 | 3.7 | 179 | 13.0 | 4 | 0.3 | 1 | 0.1 | 1372 | 100.0 |
| Murrumbidgee | 911 | 38.4 | 102 | 4.3 | 131 | 5.5 | 534 | 22.5 | 243 | 10.3 | 80 | 3.4 | 365 | 15.4 | 4 | 0.2 | 0 | 0.0 | 2370 | 100.0 |
| Western NSW | 1398 | 37.4 | 187 | 5.0 | 197 | 5.3 | 699 | 18.7 | 328 | 8.8 | 106 | 2.8 | 815 | 21.8 | 4 | 0.1 | 6 | 0.2 | 3740 | 100.0 |
| Far West | 89 | 38.0 | 20 | 8.5 | 12 | 5.1 | 38 | 16.2 | 19 | 8.1 | 12 | 5.1 | 43 | 18.4 | 0 | 0.0 | 1 | 0.4 | 234 | 100.0 |
| Other-not stated | 869 | 36.3 | 146 | 6.1 | 229 | 9.6 | 433 | 18.1 | 253 | 10.6 | 54 | 2.3 | 407 | 17.0 | 4 | 0.2 | 2 | 0.1 | 2397 | 100.0 |
| TOTAL | 33947 | 34.9 | 5932 | 6.1 | 7311 | 7.5 | 19710 | 20.3 | 9673 | 9.9 | 3335 | 3.4 | 16879 | 17.3 | 384 | 0.4 | 135 | 0.1 | 97306 | 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 type

Fifty-five per cent of births were normal vaginal births in 2016, 11.5% were instrumental and 32.9% were by caesarean section (Table 30). The highest rate of normal vaginal birth was 66.5% among residents of the Northern NSW Local Health District, while the highest rate of instrumental birth was 15.7% among residents of the South Eastern Sydney Local Health District. The caesarean section rate varied from 23.5% among mothers resident in the Northern NSW Local Health District to 37.9% in the Nepean Blue Mountains Local Health District.

TABLE 30: TYPE OF BIRTH BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016

| 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. | % | No. | % |
| Sydney | 4128 | 49.5 | 504 | 6.0 | 697 | 8.4 | 17 | 0.2 | 1894 | 22.7 | 1102 | 13.2 | 3 | 0.0 | 8345 | 100.0 |
| South Western Sydney | 8419 | 61.2 | 408 | 3.0 | 897 | 6.5 | 43 | 0.3 | 2547 | 18.5 | 1422 | 10.3 | 14 | 0.1 | 13750 | 100.0 |
| South Eastern Sydney | 5505 | 48.6 | 755 | 6.7 | 1026 | 9.1 | 38 | 0.3 | 2495 | 22.0 | 1498 | 13.2 | 1 | 0.0 | 11318 | 100.0 |
| Illawarra Shoalhaven | 2496 | 55.1 | 187 | 4.1 | 340 | 7.5 | 10 | 0.2 | 899 | 19.8 | 602 | 13.3 | 0 | 0.0 | 4534 | 100.0 |
| Western Sydney | 8303 | 56.6 | 730 | 5.0 | 788 | 5.4 | 89 | 0.6 | 2834 | 19.3 | 1918 | 13.1 | 5 | 0.0 | 14667 | 100.0 |
| Nepean Blue Mountains | 2638 | 52.3 | 116 | 2.3 | 359 | 7.1 | 18 | 0.4 | 1142 | 22.6 | 768 | 15.2 | 1 | 0.0 | 5042 | 100.0 |
| Northern Sydney | 5242 | 48.5 | 732 | 6.8 | 726 | 6.7 | 32 | 0.3 | 2604 | 24.1 | 1468 | 13.6 | 0 | 0.0 | 10804 | 100.0 |
| Central Coast | 2111 | 55.3 | 231 | 6.1 | 239 | 6.3 | 14 | 0.4 | 714 | 18.7 | 507 | 13.3 | 0 | 0.0 | 3816 | 100.0 |
| Hunter New England | 6259 | 58.6 | 402 | 3.8 | 691 | 6.5 | 35 | 0.3 | 1981 | 18.5 | 1320 | 12.3 | 2 | 0.0 | 10690 | 100.0 |
| Northern NSW | 1547 | 66.5 | 95 | 4.1 | 134 | 5.8 | 5 | 0.2 | 286 | 12.3 | 260 | 11.2 | 0 | 0.0 | 2327 | 100.0 |
| Mid North Coast | 1128 | 59.4 | 55 | 2.9 | 90 | 4.7 | 4 | 0.2 | 388 | 20.4 | 234 | 12.3 | 1 | 0.1 | 1900 | 100.0 |
| Southern NSW | 866 | 63.1 | 48 | 3.5 | 91 | 6.6 | 3 | 0.2 | 204 | 14.9 | 160 | 11.7 | 0 | 0.0 | 1372 | 100.0 |
| Murrumbidgee | 1315 | 55.5 | 40 | 1.7 | 168 | 7.1 | 5 | 0.2 | 534 | 22.5 | 308 | 13.0 | 0 | 0.0 | 2370 | 100.0 |
| Western NSW | 2254 | 60.3 | 111 | 3.0 | 225 | 6.0 | 15 | 0.4 | 699 | 18.7 | 436 | 11.7 | 0 | 0.0 | 3740 | 100.0 |
| Far West | 155 | 66.2 | 6 | 2.6 | 5 | 2.1 | 0 | 0.0 | 38 | 16.2 | 29 | 12.4 | 1 | 0.4 | 234 | 100.0 |
| Other-not stated | 1374 | 57.3 | 116 | 4.8 | 173 | 7.2 | 11 | 0.5 | 433 | 18.1 | 289 | 12.1 | 1 | 0.0 | 2397 | 100.0 |
| TOTAL | 53740 | 55.2 | 4536 | 4.7 | 6649 | 6.8 | 339 | 0.3 | 19692 | 20.2 | 12321 | 12.7 | 29 | 0.0 | 97306 | 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 2016, 6.5% 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 5.2% in the 1,500 to 2,499 gram range (Table 31). Rates of low birth weight ranged from 3.0% in the Southern NSW Local Health District to 7.5% in the Western NSW Local Health District.

TABLE 31: BIRTH WEIGHT BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016

| 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 | 30 | 0.4 | 30 | 0.4 | 50 | 0.6 | 106 | 1.3 | 347 | 4.1 | 1574 | 18.6 | 3420 | 40.4 | 2294 | 27.1 | 548 | 6.5 | 65 | 0.8 | 4 | 0.0 | 8468 | 100.0 |
| South Western Sydney | 51 | 0.4 | 68 | 0.5 | 83 | 0.6 | 164 | 1.2 | 582 | 4.2 | 2404 | 17.2 | 5214 | 37.3 | 4106 | 29.4 | 1115 | 8.0 | 158 | 1.1 | 20 | 0.1 | 13965 | 100.0 |
| South Eastern Sydney | 33 | 0.3 | 40 | 0.3 | 47 | 0.4 | 129 | 1.1 | 456 | 4.0 | 1942 | 16.9 | 4634 | 40.3 | 3273 | 28.5 | 824 | 7.2 | 108 | 0.9 | 7 | 0.1 | 11493 | 100.0 |
| Illawarra Shoalhaven | 5 | 0.1 | 14 | 0.3 | 20 | 0.4 | 84 | 1.8 | 173 | 3.8 | 734 | 15.9 | 1638 | 35.6 | 1487 | 32.3 | 393 | 8.5 | 54 | 1.2 | 1 | 0.0 | 4603 | 100.0 |
| Western Sydney | 64 | 0.4 | 76 | 0.5 | 90 | 0.6 | 177 | 1.2 | 604 | 4.1 | 2758 | 18.6 | 5786 | 38.9 | 4074 | 27.4 | 1083 | 7.3 | 145 | 1.0 | 2 | 0.0 | 14859 | 100.0 |
| Nepean Blue Mountains | 19 | 0.4 | 23 | 0.5 | 32 | 0.6 | 66 | 1.3 | 192 | 3.8 | 842 | 16.5 | 1872 | 36.7 | 1537 | 30.1 | 465 | 9.1 | 56 | 1.1 | 3 | 0.1 | 5107 | 100.0 |
| Northern Sydney | 23 | 0.2 | 37 | 0.3 | 57 | 0.5 | 108 | 1.0 | 376 | 3.4 | 1734 | 15.8 | 4448 | 40.6 | 3217 | 29.4 | 843 | 7.7 | 112 | 1.0 | 3 | 0.0 | 10958 | 100.0 |
| Central Coast | 19 | 0.5 | 20 | 0.5 | 18 | 0.5 | 49 | 1.3 | 148 | 3.8 | 515 | 13.3 | 1373 | 35.4 | 1251 | 32.2 | 405 | 10.4 | 77 | 2.0 | 5 | 0.1 | 3880 | 100.0 |
| Hunter New England | 27 | 0.2 | 46 | 0.4 | 71 | 0.7 | 136 | 1.3 | 504 | 4.6 | 1530 | 14.1 | 3717 | 34.2 | 3452 | 31.8 | 1175 | 10.8 | 190 | 1.7 | 16 | 0.1 | 10864 | 100.0 |
| Northern NSW | 3 | 0.1 | 3 | 0.1 | 5 | 0.2 | 25 | 1.1 | 70 | 3.0 | 306 | 13.0 | 841 | 35.8 | 770 | 32.8 | 277 | 11.8 | 45 | 1.9 | 1 | 0.0 | 2346 | 100.0 |
| Mid North Coast | 6 | 0.3 | 6 | 0.3 | 15 | 0.8 | 27 | 1.4 | 81 | 4.2 | 285 | 14.8 | 663 | 34.4 | 604 | 31.4 | 207 | 10.8 | 27 | 1.4 | 4 | 0.2 | 1925 | 100.0 |
| Southern NSW | 3 | 0.2 | 6 | 0.4 | 4 | 0.3 | 11 | 0.8 | 18 | 1.3 | 206 | 14.9 | 489 | 35.4 | 466 | 33.7 | 153 | 11.1 | 25 | 1.8 | 0 | 0.0 | 1381 | 100.0 |
| Murrumbidgee | 9 | 0.4 | 12 | 0.5 | 11 | 0.5 | 33 | 1.4 | 96 | 4.0 | 363 | 15.1 | 889 | 36.9 | 718 | 29.8 | 247 | 10.2 | 33 | 1.4 | 0 | 0.0 | 2411 | 100.0 |
| Western NSW | 19 | 0.5 | 21 | 0.6 | 23 | 0.6 | 52 | 1.4 | 170 | 4.5 | 601 | 15.8 | 1330 | 35.0 | 1139 | 30.0 | 390 | 10.3 | 56 | 1.5 | 2 | 0.1 | 3803 | 100.0 |
| Far West | 0 | 0.0 | 1 | 0.4 | 0 | 0.0 | 1 | 0.4 | 6 | 2.6 | 38 | 16.2 | 78 | 33.2 | 73 | 31.1 | 35 | 14.9 | 2 | 0.9 | 1 | 0.4 | 235 | 100.0 |
| Other-not stated | 15 | 0.6 | 8 | 0.3 | 8 | 0.3 | 23 | 0.9 | 108 | 4.4 | 440 | 18.1 | 898 | 37.0 | 710 | 29.2 | 188 | 7.7 | 29 | 1.2 | 2 | 0.1 | 2429 | 100.0 |
| TOTAL | 326 | 0.3 | 411 | 0.4 | 534 | 0.5 | 1191 | 1.2 | 3931 | 4.0 | 16272 | 16.5 | 37290 | 37.8 | 29171 | 29.5 | 8348 | 8.5 | 1182 | 1.2 | 71 | 0.1 | 98727 | 100.0 |

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

Gestational age

The majority of births (91.4%) were at term, and 1.1% were post-term (42-plus weeks). The 7.3% of preterm births comprised 0.7% born at less than 28 weeks, 0.6% at 28–31 weeks, and 5.9% at 32–36 weeks. The highest rate of preterm birth was 9.1% in the Western NSW Local Health District, while the lowest was 2.6% in the Far West Local Health District (Table 32).

TABLE 32: GESTATIONAL AGE BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016

| Local Health District | Gestational age (weeks) | | | | | | | | | | | | | |
|-----------------------|-------------------------|------------|------------|------------|-------------|------------|--------------|-------------|-------------|------------|------------|------------|--------------|--------------|
| | < 28 | | 28–31 | | 32–36 | | 37–41 | | 42+ | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 55 | 0.6 | 63 | 0.7 | 479 | 5.7 | 7839 | 92.6 | 22 | 0.3 | 10 | 0.1 | 8468 | 100.0 |
| South Western Sydney | 112 | 0.8 | 85 | 0.6 | 930 | 6.7 | 12659 | 90.6 | 31 | 0.2 | 148 | 1.1 | 13965 | 100.0 |
| South Eastern Sydney | 71 | 0.6 | 51 | 0.4 | 630 | 5.5 | 10573 | 92.0 | 148 | 1.3 | 20 | 0.2 | 11493 | 100.0 |
| Illawarra Shoalhaven | 15 | 0.3 | 31 | 0.7 | 319 | 6.9 | 4196 | 91.2 | 40 | 0.9 | 2 | 0.0 | 4603 | 100.0 |
| Western Sydney | 132 | 0.9 | 95 | 0.6 | 773 | 5.2 | 13771 | 92.7 | 79 | 0.5 | 9 | 0.1 | 14859 | 100.0 |
| Nepean Blue Mountains | 35 | 0.7 | 39 | 0.8 | 331 | 6.5 | 4660 | 91.2 | 41 | 0.8 | 1 | 0.0 | 5107 | 100.0 |
| Northern Sydney | 65 | 0.6 | 51 | 0.5 | 577 | 5.3 | 10162 | 92.7 | 98 | 0.9 | 5 | 0.0 | 10958 | 100.0 |
| Central Coast | 32 | 0.8 | 29 | 0.7 | 247 | 6.4 | 3459 | 89.1 | 111 | 2.9 | 2 | 0.1 | 3880 | 100.0 |
| Hunter New England | 74 | 0.7 | 87 | 0.8 | 721 | 6.6 | 9771 | 89.9 | 209 | 1.9 | 2 | 0.0 | 10864 | 100.0 |
| Northern NSW | 5 | 0.2 | 7 | 0.3 | 109 | 4.6 | 2150 | 91.6 | 74 | 3.2 | 1 | 0.0 | 2346 | 100.0 |
| Mid North Coast | 11 | 0.6 | 19 | 1.0 | 131 | 6.8 | 1723 | 89.5 | 39 | 2.0 | 2 | 0.1 | 1925 | 100.0 |
| Southern NSW | 10 | 0.7 | 7 | 0.5 | 36 | 2.6 | 1278 | 92.5 | 50 | 3.6 | 0 | 0.0 | 1381 | 100.0 |
| Murrumbidgee | 19 | 0.8 | 15 | 0.6 | 163 | 6.8 | 2180 | 90.4 | 33 | 1.4 | 1 | 0.0 | 2411 | 100.0 |
| Western NSW | 36 | 0.9 | 30 | 0.8 | 280 | 7.4 | 3410 | 89.7 | 46 | 1.2 | 1 | 0.0 | 3803 | 100.0 |
| Far West | 1 | 0.4 | 0 | 0.0 | 5 | 2.1 | 224 | 95.3 | 4 | 1.7 | 1 | 0.4 | 235 | 100.0 |
| Other-not stated | 23 | 0.9 | 10 | 0.4 | 134 | 5.5 | 2215 | 91.2 | 40 | 1.6 | 7 | 0.3 | 2429 | 100.0 |
| TOTAL | 696 | 0.7 | 619 | 0.6 | 5865 | 5.9 | 90270 | 91.4 | 1065 | 1.1 | 212 | 0.2 | 98727 | 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 97.1% in the Murrumbidgee Local Health District, while the lowest was 80.9% in the Northern NSW Local Health District (Table 33).

TABLE 33: HEPATITIS B DOSE GIVEN TO LIVEBORN BABIES, NSW 2016

| Local Health District | Hepatitis B dose given | | | | | | | |
|-----------------------|------------------------|------------|--------------|-------------|-------------|------------|--------------|--------------|
| | No | | Yes | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % |
| Sydney | 429 | 5.1 | 7928 | 94.1 | 67 | 0.8 | 8424 | 100.0 |
| South Western Sydney | 288 | 2.1 | 12604 | 90.8 | 984 | 7.1 | 13876 | 100.0 |
| South Eastern Sydney | 931 | 8.1 | 10478 | 91.7 | 23 | 0.2 | 11432 | 100.0 |
| Illawarra Shoalhaven | 184 | 4.0 | 4403 | 95.9 | 3 | 0.1 | 4590 | 100.0 |
| Western Sydney | 480 | 3.2 | 14275 | 96.6 | 21 | 0.1 | 14776 | 100.0 |
| Nepean Blue Mountains | 240 | 4.7 | 4815 | 94.8 | 24 | 0.5 | 5079 | 100.0 |
| Northern Sydney | 753 | 6.9 | 10146 | 93.0 | 9 | 0.1 | 10908 | 100.0 |
| Central Coast | 173 | 4.5 | 3672 | 95.4 | 6 | 0.2 | 3851 | 100.0 |
| Hunter New England | 402 | 3.7 | 10398 | 96.2 | 14 | 0.1 | 10814 | 100.0 |
| Northern NSW | 446 | 19.1 | 1888 | 80.9 | 1 | 0.0 | 2335 | 100.0 |
| Mid North Coast | 158 | 8.3 | 1753 | 91.7 | 1 | 0.1 | 1912 | 100.0 |
| Southern NSW | 82 | 6.0 | 1288 | 93.8 | 3 | 0.2 | 1373 | 100.0 |
| Murrumbidgee | 69 | 2.9 | 2329 | 97.1 | 1 | 0.0 | 2399 | 100.0 |
| Western NSW | 121 | 3.2 | 3646 | 96.7 | 4 | 0.1 | 3771 | 100.0 |
| Far West | 9 | 3.8 | 224 | 95.7 | 1 | 0.4 | 234 | 100.0 |
| Other-not stated | 191 | 7.9 | 2166 | 89.9 | 53 | 2.2 | 2410 | 100.0 |
| TOTAL | 4956 | 5.0 | 92013 | 93.7 | 1215 | 1.2 | 98184 | 100.0 |

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

Infant feeding

In 2016, infant feeding on discharge from hospital was reported for 95,006 liveborn babies (Table 34). The majority of babies (74.9%) were reported to be fully breastfed, 8.5% were receiving infant formula only, and a further 13.4% were being partially breastfed. Rates of full breastfeeding varied from 58.5% in the South Western Sydney Local Health District to 86.4% in the Northern NSW Local Health District.

TABLE 34: LIVE BIRTHS BY INFANT FEEDING ON DISCHARGE AND LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016

| Local Health District | Infant feeding | | | | | | | | | |
|-----------------------|--------------------|-------------|-------------------|-------------|---------------------|------------|-------------|------------|--------------|--------------|
| | Full breastfeeding | | Any breastfeeding | | Infant formula only | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 6342 | 75.3 | 1584 | 18.8 | 361 | 4.3 | 137 | 1.6 | 8424 | 100.0 |
| South Western Sydney | 8123 | 58.5 | 2933 | 21.1 | 1620 | 11.7 | 1200 | 8.6 | 13876 | 100.0 |
| South Eastern Sydney | 9046 | 79.1 | 1692 | 14.8 | 520 | 4.5 | 174 | 1.5 | 11432 | 100.0 |
| Illawarra Shoalhaven | 3665 | 79.8 | 256 | 5.6 | 602 | 13.1 | 67 | 1.5 | 4590 | 100.0 |
| Western Sydney | 10874 | 73.6 | 2203 | 14.9 | 1245 | 8.4 | 454 | 3.1 | 14776 | 100.0 |
| Nepean Blue Mountains | 3734 | 73.5 | 511 | 10.1 | 615 | 12.1 | 219 | 4.3 | 5079 | 100.0 |
| Northern Sydney | 8786 | 80.5 | 1628 | 14.9 | 333 | 3.1 | 161 | 1.5 | 10908 | 100.0 |
| Central Coast | 3168 | 82.3 | 306 | 7.9 | 335 | 8.7 | 42 | 1.1 | 3851 | 100.0 |
| Hunter New England | 8270 | 76.5 | 987 | 9.1 | 1213 | 11.2 | 344 | 3.2 | 10814 | 100.0 |
| Northern NSW | 2017 | 86.4 | 105 | 4.5 | 128 | 5.5 | 85 | 3.6 | 2335 | 100.0 |
| Mid North Coast | 1572 | 82.2 | 131 | 6.9 | 171 | 8.9 | 38 | 2.0 | 1912 | 100.0 |
| Southern NSW | 1160 | 84.5 | 60 | 4.4 | 117 | 8.5 | 36 | 2.6 | 1373 | 100.0 |
| Murrumbidgee | 1812 | 75.5 | 178 | 7.4 | 375 | 15.6 | 34 | 1.4 | 2399 | 100.0 |
| Western NSW | 2942 | 78.0 | 241 | 6.4 | 501 | 13.3 | 87 | 2.3 | 3771 | 100.0 |
| Far West | 176 | 75.2 | 11 | 4.7 | 38 | 16.2 | 9 | 3.8 | 234 | 100.0 |
| Other-not stated | 1837 | 76.2 | 351 | 14.6 | 131 | 5.4 | 91 | 3.8 | 2410 | 100.0 |
| TOTAL | 73524 | 74.9 | 13177 | 13.4 | 8305 | 8.5 | 3178 | 3.2 | 98184 | 100.0 |

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

Perinatal outcomes

The perinatal mortality rate in 2016 was 7.5 per 1,000 births. This rate includes all live births, and stillbirths of at least 400 grams birth weight or at least 20 weeks gestation (Table 35). The perinatal mortality rate varied from 4.6 per 1,000 births in the Illawarra Shoalhaven Local Health District to 10.8 per 1,000 births in the Western NSW Local Health District.

TABLE 35: PERINATAL OUTCOMES BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016^a

| Local Health District | Liveborn surviving | | Stillborn | | Neonatal death | | Death—age not stated | | Not stated | | Total births | | Perinatal death rate/1,000 births ^b | |
|-----------------------|--------------------|-------------|------------|------------|----------------|------------|----------------------|------------|------------|------------|--------------|--------------|--|--------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | No. |
| Sydney | 8409 | 99.3 | 44 | 0.5 | 15 | 0.2 | 0 | 0.0 | 0 | 0.0 | 8468 | 100.0 | | 7.0 |
| South Western Sydney | 13847 | 99.2 | 89 | 0.6 | 29 | 0.2 | 0 | 0.0 | 0 | 0.0 | 13965 | 100.0 | | 8.4 |
| South Eastern Sydney | 11413 | 99.3 | 61 | 0.5 | 19 | 0.2 | 0 | 0.0 | 0 | 0.0 | 11493 | 100.0 | | 7.0 |
| Illawarra Shoalhaven | 4582 | 99.5 | 13 | 0.3 | 8 | 0.2 | 0 | 0.0 | 0 | 0.0 | 4603 | 100.0 | | 4.6 |
| Western Sydney | 14734 | 99.2 | 83 | 0.6 | 42 | 0.3 | 0 | 0.0 | 0 | 0.0 | 14859 | 100.0 | | 8.4 |
| Nepean Blue Mountains | 5068 | 99.2 | 28 | 0.5 | 11 | 0.2 | 0 | 0.0 | 0 | 0.0 | 5107 | 100.0 | | 7.6 |
| Northern Sydney | 10896 | 99.4 | 50 | 0.5 | 12 | 0.1 | 0 | 0.0 | 0 | 0.0 | 10958 | 100.0 | | 5.7 |
| Central Coast | 3846 | 99.1 | 29 | 0.7 | 5 | 0.1 | 0 | 0.0 | 0 | 0.0 | 3880 | 100.0 | | 8.8 |
| Hunter New England | 10789 | 99.3 | 50 | 0.5 | 25 | 0.2 | 0 | 0.0 | 0 | 0.0 | 10864 | 100.0 | | 6.9 |
| Northern NSW | 2333 | 99.4 | 11 | 0.5 | 2 | 0.1 | 0 | 0.0 | 0 | 0.0 | 2346 | 100.0 | | 5.5 |
| Mid North Coast | 1910 | 99.2 | 13 | 0.7 | 2 | 0.1 | 0 | 0.0 | 0 | 0.0 | 1925 | 100.0 | | 7.8 |
| Southern NSW | 1367 | 99.0 | 8 | 0.6 | 6 | 0.4 | 0 | 0.0 | 0 | 0.0 | 1381 | 100.0 | | 10.1 |
| Murrumbidgee | 2393 | 99.3 | 12 | 0.5 | 6 | 0.2 | 0 | 0.0 | 0 | 0.0 | 2411 | 100.0 | | 7.5 |
| Western NSW | 3762 | 98.9 | 32 | 0.8 | 9 | 0.2 | 0 | 0.0 | 0 | 0.0 | 3803 | 100.0 | | 10.8 |
| Far West | 233 | 99.1 | 1 | 0.4 | 1 | 0.4 | 0 | 0.0 | 0 | 0.0 | 235 | 100.0 | | 8.5 |
| Other-not stated | 2401 | 98.8 | 19 | 0.8 | 9 | 0.4 | 0 | 0.0 | 0 | 0.0 | 2429 | 100.0 | | 259.6 |
| TOTAL | 97983 | 99.2 | 543 | 0.6 | 201 | 0.2 | 0 | 0.0 | 0 | 0.0 | 98727 | 100.0 | | 7.5 |

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

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

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

Live births by statistical area of residence

TABLE 36: LIVE BIRTHS BY LOCAL HEALTH DISTRICT AND STATISTICAL AREA OF RESIDENCE, NSW 2016^a

| Local Health District–Statistical Area 3 ¹ | No. | % | |
|---|---------------------------------|--------------|--------------|
| Sydney | Bankstown* | 25 | 0.3 |
| | Canada Bay | 1167 | 13.9 |
| | Canterbury* | 2089 | 24.8 |
| | Hurstville* | 139 | 1.7 |
| | Leichhardt | 889 | 10.6 |
| | Marrickville–Sydenham–Petersham | 700 | 8.3 |
| | Strathfield–Burwood–Ashfield | 1802 | 21.4 |
| | Sydney Inner City* | 1611 | 19.1 |
| | TOTAL | 8424 | 100.0 |
| South Western Sydney | Auburn* | 15 | 0.1 |
| | Bankstown* | 2592 | 18.7 |
| | Bringelly–Green Valley | 1773 | 12.8 |
| | Camden | 1033 | 7.4 |
| | Campbelltown | 2489 | 17.9 |
| | Canterbury* | 150 | 1.1 |
| | Fairfield* | 2271 | 16.4 |
| | Liverpool* | 1992 | 14.4 |
| | Merrylands–Guildford* | 462 | 3.3 |
| | Penrith* | 85 | 0.6 |
| | Southern Highlands | 462 | 3.3 |
| | Wollondilly | 542 | 3.9 |
| | TOTAL | 13876 | 100.0 |
| South Eastern Sydney | Botany | 732 | 6.4 |
| | Cronulla–Miranda–Caringbah | 1372 | 12.0 |
| | Eastern Suburbs–North | 1787 | 15.6 |
| | Eastern Suburbs–South | 1896 | 16.6 |
| | Hurstville* | 1518 | 13.3 |
| | Kogarah–Rockdale | 2175 | 19.0 |
| | Liverpool* | 8 | 0.1 |
| | Sutherland–Menai –Heathcote | 1319 | 11.5 |
| | Sydney Inner City* | 613 | 5.4 |
| | TOTAL | 11432 | 100.0 |
| Illawarra Shoalhaven | Dapto–Port Kembla | 982 | 21.4 |
| | Kiama –Shellharbour | 1050 | 22.9 |
| | Shoalhaven | 1025 | 22.3 |
| | South Coast* | 3 | 0.1 |
| | Wollongong | 1527 | 33.3 |
| | TOTAL | 4590 | 100.0 |
| Western Sydney | Auburn* | 1803 | 12.2 |
| | Baulkham Hills* | 1179 | 8.0 |
| | Blacktown | 2275 | 15.4 |
| | Blacktown–North | 1512 | 10.2 |
| | Carlingford* | 655 | 4.4 |
| | Dural–Wisemans Ferry* | 87 | 0.6 |
| | Merrylands–Guildford* | 2303 | 15.6 |
| | Mount Druitt | 2050 | 13.9 |
| | Parramatta | 2476 | 16.8 |
| | Pennant Hills–Epping* | 108 | 0.7 |
| | Rouse Hill–McGraths Hill* | 284 | 1.9 |
| | Ryde–Hunters Hill* | 34 | 0.2 |
| | TOTAL | 14776 | 100.0 |

| Local Health District–Statistical Area 3 ¹ | No. | % | |
|---|----------------------------|--------------|--------------|
| Nepean Blue Mountains | Blue Mountains | 754 | 14.8 |
| | Dural–Wisemans Ferry* | 5 | 0.1 |
| | Fairfield* | 13 | 0.3 |
| | Hawkesbury | 264 | 5.2 |
| | Lithgow–Mudgee* | 237 | 4.7 |
| | Penrith* | 2289 | 45.1 |
| | Richmond–Windsor | 471 | 9.3 |
| | Rouse Hill–McGraths Hill* | 153 | 3.0 |
| | St Marys | 892 | 17.6 |
| | TOTAL | 5079 | 100.0 |
| Northern Sydney | Baulkham Hills* | 158 | 1.4 |
| | Carlingford* | 86 | 0.8 |
| | Chatswood–Lane Cove | 1646 | 15.1 |
| | Dural–Wisemans Ferry* | 134 | 1.2 |
| | Hornsby | 1034 | 9.5 |
| | Ku-ring-gai | 1055 | 9.7 |
| | Manly | 636 | 5.8 |
| | North Sydney–Mosman | 1372 | 12.6 |
| | Pennant Hills–Epping* | 360 | 3.3 |
| | Pittwater | 636 | 5.8 |
| | Ryde–Hunters Hill* | 1750 | 16.0 |
| | Warringah | 2034 | 18.6 |
| | TOTAL | 10908 | 100.0 |
| Central Coast | Gosford | 1914 | 49.7 |
| | Wyong | 1937 | 50.3 |
| | TOTAL | 3851 | 100.0 |
| Hunter New England | Armidaale | 395 | 3.7 |
| | Great Lakes | 256 | 2.4 |
| | Inverell–Tenterfield* | 385 | 3.6 |
| | Kempsey–Nambucca | 1 | 0.0 |
| | Lake Macquarie–East | 1422 | 13.1 |
| | Lake Macquarie–West | 927 | 8.6 |
| | Lower Hunter | 1183 | 10.9 |
| | Maitland | 1086 | 10.0 |
| | Moree–Narrabri | 371 | 3.4 |
| | Newcastle | 2027 | 18.7 |
| | Port Stephens | 698 | 6.5 |
| | Tamworth–Gunnedah | 1077 | 10.0 |
| | Taree–Gloucester | 530 | 4.9 |
| | Upper Hunter | 440 | 4.1 |
| | TOTAL | 10814 | 100.0 |
| Northern NSW | Clarence Valley | 412 | 17.6 |
| | Coffs Harbour* | 3 | 0.1 |
| | Richmond Valley–Coastal | 602 | 25.8 |
| | Richmond Valley–Hinterland | 644 | 27.6 |
| | Tweed Valley | 672 | 28.8 |
| | TOTAL | 2335 | 100.0 |
| Mid North Coast | Coffs Harbour* | 819 | 42.8 |
| | Kempsey–Nambucca | 486 | 25.4 |
| | Port Macquarie | 603 | 31.5 |
| | TOTAL | 1912 | 100.0 |

(Continued on next page)

TABLE 36: (Continued)

| Local Health District–Statistical Area 3 [†] | No. | % |
|---|--------------|--------------|
| Southern NSW | | |
| Goulburn–Yass* | 336 | 24.5 |
| Queanbeyan | 336 | 24.5 |
| Snowy Mountains | 149 | 10.9 |
| South Coast* | 551 | 40.1 |
| TOTAL | 1373 | 100.0 |
| Murrumbidgee | | |
| Albury | 12 | 0.5 |
| Goulburn–Yass* | 169 | 7.0 |
| Griffith–Murrumbidgee (West) | 651 | 27.1 |
| Lachlan Valley* | 58 | 2.4 |
| Lower Murray* | 29 | 1.2 |
| Tumut–Tumbarumba | 143 | 6.0 |
| Upper Murray excluding Albury | 88 | 3.7 |
| Wagga Wagga | 1243 | 51.8 |
| TOTAL | 2399 | 100.0 |
| Western NSW | | |
| Bathurst | 584 | 15.5 |
| Bourke–Cobar–Coonamble | 363 | 9.6 |
| Dubbo | 1036 | 27.5 |
| Lachlan Valley* | 569 | 15.1 |
| Lithgow–Mudgee * | 319 | 8.5 |
| Orange | 886 | 23.5 |
| TOTAL | 3771 | 100.0 |
| Far West | | |
| Broken Hill and Far West | 234 | 100.0 |
| TOTAL | 234 | 100.0 |
| Other-not stated | 2410 | 100.0 |
| TOTAL | 98184 | 100.0 |

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

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

* Geographical boundaries of Statistical Area Level 3 (SA3) occur within two Local Health Districts.

† Totals include live births where Statistical Area was unknown.

6. NSW HOSPITALS

Onset and augmentation of labour

Table 37 shows onset or augmentation of labour for local health districts, and Table 38 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2016.

TABLE 37: ONSET AND AUGMENTATION OF LABOUR BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2016

| Local Health District | Onset and augmentation of labour | | | | | | | | | | | | | | | | | | | |
|-----------------------|----------------------------------|-------------|--------------------------------|------------|---|------------|--------------|-------------|------------------------------------|------------|--------------------|------------|--|-------------|------------------------------|------------|------------|------------|--------------|--------------|
| | Spontaneous | | Spontaneous augmented with ARM | | Spontaneous augmented with oxytocics [†] | | 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 | 2038 | 30.0 | 507 | 7.5 | 825 | 12.1 | 1232 | 18.1 | 1008 | 14.8 | 374 | 5.5 | 790 | 11.6 | 22 | 0.3 | 0 | 0.0 | 6796 | 100.0 |
| South Western Sydney | 4370 | 39.0 | 1012 | 9.0 | 1003 | 9.0 | 1807 | 16.1 | 1476 | 13.2 | 649 | 5.8 | 829 | 7.4 | 46 | 0.4 | 3 | 0.0 | 11195 | 100.0 |
| South Eastern Sydney | 2999 | 37.5 | 526 | 6.6 | 738 | 9.2 | 1152 | 14.4 | 852 | 10.6 | 183 | 2.3 | 1549 | 19.4 | 5 | 0.1 | 0 | 0.0 | 8004 | 100.0 |
| Illawarra Shoalhaven | 1252 | 37.2 | 226 | 6.7 | 211 | 6.3 | 534 | 15.9 | 369 | 11.0 | 64 | 1.9 | 703 | 20.9 | 5 | 0.1 | 1 | 0.0 | 3365 | 100.0 |
| Western Sydney | 3927 | 38.7 | 664 | 6.6 | 812 | 8.0 | 1582 | 15.6 | 896 | 8.8 | 149 | 1.5 | 2072 | 20.4 | 29 | 0.3 | 5 | 0.0 | 10136 | 100.0 |
| Nepean Blue Mountains | 1918 | 36.7 | 276 | 5.3 | 224 | 4.3 | 1071 | 20.5 | 410 | 7.8 | 109 | 2.1 | 1200 | 22.9 | 18 | 0.3 | 3 | 0.1 | 5229 | 100.0 |
| Northern Sydney | 2298 | 38.2 | 315 | 5.2 | 554 | 9.2 | 965 | 16.0 | 701 | 11.7 | 99 | 1.6 | 1076 | 17.9 | 5 | 0.1 | 0 | 0.0 | 6013 | 100.0 |
| Central Coast | 1199 | 41.6 | 143 | 5.0 | 248 | 8.6 | 422 | 14.6 | 315 | 10.9 | 36 | 1.2 | 519 | 18.0 | 0 | 0.0 | 0 | 0.0 | 2882 | 100.0 |
| Hunter New England | 3490 | 39.7 | 363 | 4.1 | 489 | 5.6 | 1368 | 15.6 | 892 | 10.1 | 211 | 2.4 | 1963 | 22.3 | 14 | 0.2 | 6 | 0.1 | 8796 | 100.0 |
| Northern NSW | 1404 | 46.3 | 174 | 5.7 | 213 | 7.0 | 368 | 12.1 | 250 | 8.2 | 78 | 2.6 | 543 | 17.9 | 2 | 0.1 | 0 | 0.0 | 3032 | 100.0 |
| Mid North Coast | 883 | 40.5 | 95 | 4.4 | 113 | 5.2 | 441 | 20.2 | 192 | 8.8 | 47 | 2.2 | 406 | 18.6 | 0 | 0.0 | 5 | 0.2 | 2182 | 100.0 |
| Southern NSW | 697 | 48.4 | 66 | 4.6 | 102 | 7.1 | 213 | 14.8 | 114 | 7.9 | 52 | 3.6 | 192 | 13.3 | 3 | 0.2 | 1 | 0.1 | 1440 | 100.0 |
| Murrumbidgee | 850 | 42.1 | 98 | 4.9 | 115 | 5.7 | 362 | 17.9 | 207 | 10.3 | 61 | 3.0 | 323 | 16.0 | 3 | 0.1 | 0 | 0.0 | 2019 | 100.0 |
| Western NSW | 1331 | 38.4 | 180 | 5.2 | 191 | 5.5 | 597 | 17.2 | 309 | 8.9 | 94 | 2.7 | 754 | 21.8 | 2 | 0.1 | 4 | 0.1 | 3462 | 100.0 |
| Far West | 89 | 38.7 | 19 | 8.3 | 11 | 4.8 | 38 | 16.5 | 19 | 8.3 | 12 | 5.2 | 41 | 17.8 | 0 | 0.0 | 1 | 0.4 | 230 | 100.0 |
| Private Hospitals | 5119 | 22.8 | 1268 | 5.7 | 1462 | 6.5 | 7558 | 33.7 | 1663 | 7.4 | 1117 | 5.0 | 3919 | 17.5 | 230 | 1.0 | 106 | 0.5 | 22442 | 100.0 |
| TOTAL* | 33947 | 34.9 | 5932 | 6.1 | 7311 | 7.5 | 19710 | 20.3 | 9673 | 9.9 | 3335 | 3.4 | 16879 | 17.3 | 384 | 0.4 | 135 | 0.1 | 97306 | 100.0 |

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

ARM: artificial rupture of membranes.

[†] May include artificial rupture of membranes.

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

* Total includes births at home assisted by independent midwives.

TABLE 38: ONSET AND AUGMENTATION OF LABOUR BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2016*

| Maternity service level-hospital | Onset and augmentation of labour | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------------------------|-------------|--------------------------------|------------|---|------------|-------------|-------------|------------------------------------|-------------|--------------------|------------|--|-------------|------------------------------|------------|------------|------------|--------------|--------------|
| | Spontaneous | | Spontaneous augmented with ARM | | Spontaneous augmented with oxytocics [†] | | 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 | 1468 | 29.2 | 357 | 7.1 | 632 | 12.6 | 962 | 19.1 | 711 | 14.1 | 268 | 5.3 | 615 | 12.2 | 18 | 0.4 | 0 | 0.0 | 5031 | 100.0 |
| Royal North Shore | 1010 | 34.2 | 150 | 5.1 | 244 | 8.3 | 574 | 19.5 | 339 | 11.5 | 41 | 1.4 | 591 | 20.0 | 0 | 0.0 | 0 | 0.0 | 2949 | 100.0 |
| Royal Hospital for Women | 1611 | 39.5 | 237 | 5.8 | 307 | 7.5 | 639 | 15.7 | 442 | 10.8 | 103 | 2.5 | 732 | 18.0 | 3 | 0.1 | 0 | 0.0 | 4074 | 100.0 |
| Liverpool | 1232 | 35.9 | 327 | 9.5 | 313 | 9.1 | 627 | 18.3 | 467 | 13.6 | 178 | 5.2 | 265 | 7.7 | 17 | 0.5 | 1 | 0.0 | 3427 | 100.0 |
| Nepean | 1476 | 35.9 | 218 | 5.3 | 188 | 4.6 | 858 | 20.9 | 293 | 7.1 | 86 | 2.1 | 967 | 23.6 | 18 | 0.4 | 2 | 0.0 | 4106 | 100.0 |
| Westmead | 2002 | 36.0 | 377 | 6.8 | 452 | 8.1 | 946 | 17.0 | 525 | 9.4 | 91 | 1.6 | 1155 | 20.8 | 11 | 0.2 | 1 | 0.0 | 5560 | 100.0 |
| John Hunter | 1363 | 34.5 | 139 | 3.5 | 232 | 5.9 | 678 | 17.2 | 450 | 11.4 | 94 | 2.4 | 985 | 24.9 | 7 | 0.2 | 0 | 0.0 | 3948 | 100.0 |
| TOTAL | 10162 | 34.9 | 1805 | 6.2 | 2368 | 8.1 | 5284 | 18.2 | 3227 | 11.1 | 861 | 3.0 | 5310 | 18.3 | 74 | 0.3 | 4 | 0.0 | 29095 | 100.0 |
| Level 5 | | | | | | | | | | | | | | | | | | | | |
| Gosford | 1080 | 39.3 | 126 | 4.6 | 248 | 9.0 | 422 | 15.4 | 315 | 11.5 | 36 | 1.3 | 519 | 18.9 | 0 | 0.0 | 0 | 0.0 | 2746 | 100.0 |
| St. George | 862 | 33.9 | 178 | 7.0 | 252 | 9.9 | 348 | 13.7 | 266 | 10.5 | 53 | 2.1 | 582 | 22.9 | 2 | 0.1 | 0 | 0.0 | 2543 | 100.0 |
| Blacktown | 1327 | 41.2 | 214 | 6.6 | 218 | 6.8 | 486 | 15.1 | 227 | 7.0 | 49 | 1.5 | 688 | 21.4 | 12 | 0.4 | 0 | 0.0 | 3221 | 100.0 |
| Coffs Harbour | 382 | 34.9 | 48 | 4.4 | 58 | 5.3 | 261 | 23.9 | 115 | 10.5 | 25 | 2.3 | 205 | 18.7 | 0 | 0.0 | 0 | 0.0 | 1094 | 100.0 |
| Lismore Base | 522 | 46.0 | 63 | 5.5 | 80 | 7.0 | 133 | 11.7 | 93 | 8.2 | 28 | 2.5 | 216 | 19.0 | 1 | 0.1 | 0 | 0.0 | 1136 | 100.0 |
| Tweed Heads | 487 | 39.7 | 71 | 5.8 | 104 | 8.5 | 164 | 13.4 | 105 | 8.6 | 36 | 2.9 | 261 | 21.3 | 0 | 0.0 | 0 | 0.0 | 1228 | 100.0 |
| Port Macquarie Base | 294 | 38.4 | 28 | 3.7 | 40 | 5.2 | 149 | 19.5 | 64 | 8.4 | 16 | 2.1 | 169 | 22.1 | 0 | 0.0 | 5 | 0.7 | 765 | 100.0 |
| Dubbo Base | 412 | 32.9 | 56 | 4.5 | 62 | 5.0 | 229 | 18.3 | 146 | 11.7 | 34 | 2.7 | 311 | 24.9 | 0 | 0.0 | 1 | 0.1 | 1251 | 100.0 |

(Continued on next page)

TABLE 38: (Continued)

| Maternity service level–hospital | Onset and augmentation of labour | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------------------------|-------------|--------------------------------|------------|---------------------------------------|------------|--------------|-------------|-------------------------------------|-------------|--------------------|------------|---|-------------|------------------|------------|------------|------------|--------------|--------------|-----|---|
| | Spontaneous | | Spontaneous augmented with ARM | | Spontaneous augmented with oxytocics† | | No labour | | Induced - oxytocics/ prostaglandins | | Induced - ARM only | | Induced - ARM + oxytocics/ prostaglandins | | Induced - other‡ | | Not stated | | TOTAL | | | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Wollongong | 941 | 37.9 | 181 | 7.3 | 147 | 5.9 | 386 | 15.6 | 248 | 10.0 | 47 | 1.9 | 527 | 21.2 | 5 | 0.2 | 0 | 0.0 | 2482 | 100.0 | | |
| Wagga Wagga Base | 379 | 37.5 | 38 | 3.8 | 74 | 7.3 | 204 | 20.2 | 103 | 10.2 | 24 | 2.4 | 190 | 18.8 | 0 | 0.0 | 0 | 0.0 | 1012 | 100.0 | | |
| TOTAL | 6686 | 38.3 | 1003 | 5.7 | 1283 | 7.3 | 2782 | 15.9 | 1682 | 9.6 | 348 | 2.0 | 3668 | 21.0 | 20 | 0.1 | 6 | 0.0 | 17478 | 100.0 | | |
| Level 4 | | | | | | | | | | | | | | | | | | | | | | |
| Canterbury | 570 | 32.3 | 150 | 8.5 | 193 | 10.9 | 270 | 15.3 | 297 | 16.8 | 106 | 6.0 | 175 | 9.9 | 4 | 0.2 | 0 | 0.0 | 1765 | 100.0 | | |
| Hornsby | 495 | 40.7 | 92 | 7.6 | 142 | 11.7 | 138 | 11.3 | 154 | 12.7 | 21 | 1.7 | 173 | 14.2 | 2 | 0.2 | 0 | 0.0 | 1217 | 100.0 | | |
| Manly | 342 | 34.8 | 34 | 3.5 | 97 | 9.9 | 143 | 14.6 | 131 | 13.3 | 21 | 2.1 | 213 | 21.7 | 1 | 0.1 | 0 | 0.0 | 982 | 100.0 | | |
| Mona Vale | 358 | 47.0 | 29 | 3.8 | 71 | 9.3 | 110 | 14.4 | 77 | 10.1 | 16 | 2.1 | 99 | 13.0 | 2 | 0.3 | 0 | 0.0 | 762 | 100.0 | | |
| Sutherland | 526 | 37.9 | 111 | 8.0 | 179 | 12.9 | 165 | 11.9 | 144 | 10.4 | 27 | 1.9 | 235 | 16.9 | 0 | 0.0 | 0 | 0.0 | 1387 | 100.0 | | |
| Campbelltown | 1440 | 43.0 | 194 | 5.8 | 261 | 7.8 | 485 | 14.5 | 416 | 12.4 | 275 | 8.2 | 251 | 7.5 | 22 | 0.7 | 2 | 0.1 | 3346 | 100.0 | | |
| Bankstown-Lidcombe | 833 | 38.2 | 192 | 8.8 | 198 | 9.1 | 355 | 16.3 | 328 | 15.0 | 118 | 5.4 | 153 | 7.0 | 5 | 0.2 | 0 | 0.0 | 2182 | 100.0 | | |
| Grafton Base | 190 | 45.1 | 29 | 6.9 | 25 | 5.9 | 66 | 15.7 | 45 | 10.7 | 10 | 2.4 | 55 | 13.1 | 1 | 0.2 | 0 | 0.0 | 421 | 100.0 | | |
| Armidale | 187 | 46.2 | 22 | 5.4 | 25 | 6.2 | 73 | 18.0 | 26 | 6.4 | 19 | 4.7 | 53 | 13.1 | 0 | 0.0 | 0 | 0.0 | 405 | 100.0 | | |
| Tamworth Base | 367 | 36.8 | 50 | 5.0 | 64 | 6.4 | 150 | 15.1 | 91 | 9.1 | 28 | 2.8 | 240 | 24.1 | 2 | 0.2 | 4 | 0.4 | 996 | 100.0 | | |
| Manning Base | 261 | 40.0 | 24 | 3.7 | 37 | 5.7 | 86 | 13.2 | 59 | 9.0 | 17 | 2.6 | 166 | 25.5 | 2 | 0.3 | 0 | 0.0 | 652 | 100.0 | | |
| Orange Base | 339 | 31.8 | 67 | 6.3 | 59 | 5.5 | 216 | 20.3 | 77 | 7.2 | 32 | 3.0 | 273 | 25.6 | 2 | 0.2 | 1 | 0.1 | 1066 | 100.0 | | |
| Maitland | 618 | 42.6 | 43 | 3.0 | 73 | 5.0 | 188 | 13.0 | 158 | 10.9 | 23 | 1.6 | 344 | 23.7 | 3 | 0.2 | 1 | 0.1 | 1451 | 100.0 | | |
| Griffith Base | 221 | 42.2 | 33 | 6.3 | 32 | 6.1 | 89 | 17.0 | 56 | 10.7 | 13 | 2.5 | 77 | 14.7 | 3 | 0.6 | 0 | 0.0 | 524 | 100.0 | | |
| TOTAL | 6747 | 39.3 | 1070 | 6.2 | 1456 | 8.5 | 2534 | 14.8 | 2059 | 12.0 | 726 | 4.5 | 2507 | 14.6 | 49 | 0.3 | 8 | 0.0 | 17156 | 100.0 | | |
| Level 3 | | | | | | | | | | | | | | | | | | | | | | |
| Auburn | 598 | 44.1 | 73 | 5.4 | 142 | 10.5 | 150 | 11.1 | 144 | 10.6 | 9 | 0.7 | 229 | 16.9 | 6 | 0.4 | 4 | 0.3 | 1355 | 100.0 | | |
| Blue Mountains | 134 | 56.8 | 10 | 4.2 | 7 | 3.0 | 43 | 18.2 | 20 | 8.5 | 0 | 0.0 | 22 | 9.3 | 0 | 0.0 | 0 | 0.0 | 236 | 100.0 | | |
| Fairfield | 701 | 39.0 | 237 | 13.2 | 187 | 10.4 | 266 | 14.8 | 215 | 12.0 | 65 | 3.6 | 124 | 6.9 | 2 | 0.1 | 0 | 0.0 | 1797 | 100.0 | | |
| Hawkesbury | 242 | 35.8 | 37 | 5.5 | 22 | 3.3 | 128 | 18.9 | 62 | 9.2 | 19 | 2.8 | 166 | 24.6 | 0 | 0.0 | 0 | 0.0 | 676 | 100.0 | | |
| Kempsey | 166 | 60.6 | 16 | 5.8 | 15 | 5.5 | 29 | 10.6 | 13 | 4.7 | 5 | 1.8 | 30 | 10.9 | 0 | 0.0 | 0 | 0.0 | 274 | 100.0 | | |
| Inverell | 68 | 27.6 | 5 | 2.0 | 24 | 9.8 | 61 | 24.8 | 31 | 12.6 | 3 | 1.2 | 54 | 22.0 | 0 | 0.0 | 0 | 0.0 | 246 | 100.0 | | |
| Mudgee | 126 | 51.0 | 6 | 2.4 | 15 | 6.1 | 35 | 14.2 | 19 | 7.7 | 5 | 2.0 | 40 | 16.2 | 0 | 0.0 | 1 | 0.4 | 247 | 100.0 | | |
| Bathurst Base | 264 | 53.9 | 18 | 3.7 | 28 | 5.7 | 63 | 12.9 | 33 | 6.7 | 12 | 2.4 | 71 | 14.5 | 0 | 0.0 | 1 | 0.2 | 490 | 100.0 | | |
| Lithgow | 66 | 31.3 | 11 | 5.2 | 7 | 3.3 | 42 | 19.9 | 35 | 16.6 | 4 | 1.9 | 45 | 21.3 | 0 | 0.0 | 1 | 0.5 | 211 | 100.0 | | |
| Bega | 121 | 47.3 | 12 | 4.7 | 12 | 4.7 | 33 | 12.9 | 18 | 7.0 | 4 | 1.6 | 55 | 21.5 | 0 | 0.0 | 1 | 0.4 | 256 | 100.0 | | |
| Goulburn Base | 138 | 48.3 | 20 | 7.0 | 29 | 10.1 | 57 | 19.9 | 19 | 6.6 | 4 | 1.4 | 19 | 6.6 | 0 | 0.0 | 0 | 0.0 | 286 | 100.0 | | |
| Moruya | 158 | 52.7 | 12 | 4.0 | 8 | 2.7 | 52 | 17.3 | 27 | 9.0 | 12 | 4.0 | 30 | 10.0 | 1 | 0.3 | 0 | 0.0 | 300 | 100.0 | | |
| Queanbeyan | 201 | 44.7 | 13 | 2.9 | 41 | 9.1 | 60 | 13.3 | 43 | 9.6 | 17 | 3.8 | 74 | 16.4 | 1 | 0.2 | 0 | 0.0 | 450 | 100.0 | | |
| Bowral | 164 | 37.0 | 62 | 14.0 | 44 | 9.9 | 74 | 16.7 | 50 | 11.3 | 13 | 2.9 | 36 | 8.1 | 0 | 0.0 | 0 | 0.0 | 443 | 100.0 | | |
| Shoalhaven | 298 | 34.4 | 41 | 4.7 | 64 | 7.4 | 148 | 17.1 | 121 | 14.0 | 17 | 2.0 | 176 | 20.3 | 0 | 0.0 | 1 | 0.1 | 866 | 100.0 | | |
| Broken Hill Base | 89 | 38.7 | 19 | 8.3 | 11 | 4.8 | 38 | 16.5 | 19 | 8.3 | 12 | 5.2 | 41 | 17.8 | 0 | 0.0 | 1 | 0.4 | 230 | 100.0 | | |
| Other hospitals | 763 | 47.9 | 114 | 7.2 | 66 | 4.1 | 228 | 14.3 | 149 | 9.4 | 54 | 3.4 | 219 | 13.7 | 0 | 0.0 | 0 | 0.0 | 1593 | 100.0 | | |
| TOTAL | 4297 | 43.2 | 706 | 7.1 | 722 | 7.3 | 1507 | 15.1 | 1018 | 10.2 | 255 | 2.6 | 1431 | 14.4 | 10 | 0.1 | 10 | 0.1 | 9956 | 100.0 | | |
| Level 2 | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 839 | 77.9 | 76 | 7.1 | 20 | 1.9 | 45 | 4.2 | 24 | 2.2 | 28 | 2.6 | 43 | 4.0 | 1 | 0.1 | 1 | 0.1 | 1077 | 100.0 | | |
| Private | | | | | | | | | | | | | | | | | | | | | | |
| Mater, North Sydney | 578 | 24.3 | 117 | 4.9 | 254 | 10.7 | 908 | 38.1 | 124 | 5.2 | 73 | 3.1 | 329 | 13.8 | 0 | 0.0 | 0 | 0.0 | 2383 | 100.0 | | |
| North Shore Private | 775 | 30.9 | 0 | 0.0 | 237 | 9.4 | 933 | 37.1 | 152 | 6.1 | 67 | 2.7 | 334 | 13.3 | 14 | 0.6 | 0 | 0.0 | 2512 | 100.0 | | |
| Sydney Adventist | 418 | 20.6 | 255 | 12.5 | 254 | 12.5 | 572 | 28.1 | 108 | 5.3 | 37 | 1.8 | 364 | 17.9 | 25 | 1.2 | 0 | 0.0 | 2033 | 100.0 | | |
| North Gosford Private | 111 | 15.5 | 35 | 4.9 | 72 | 10.1 | 236 | 33.0 | 46 | 6.4 | 18 | 2.5 | 192 | 26.9 | 4 | 0.6 | 1 | 0.1 | 715 | 100.0 | | |
| Hurstville Community | 208 | 25.3 | 75 | 9.1 | 107 | 13.0 | 220 | 26.7 | 57 | 6.9 | 9 | 1.1 | 139 | 16.9 | 2 | 0.2 | 6 | 0.7 | 823 | 100.0 | | |
| Kareena Private | 189 | 24.1 | 0 | 0.0 | 68 | 8.7 | 282 | 36.0 | 52 | 6.6 | 17 | 2.2 | 171 | 21.8 | 4 | 0.5 | 0 | 0.0 | 783 | 100.0 | | |
| St. George Private | 406 | 25.8 | 0 | 0.0 | 153 | 9.7 | 494 | 31.4 | 267 | 17.0 | 106 | 6.7 | 139 | 8.8 | 6 | 0.4 | 0 | 0.0 | 1571 | 100.0 | | |
| Prince of Wales Private | 485 | 22.1 | 187 | 8.5 | 0 | 0.0 | 927 | 42.3 | 138 | 6.3 | 167 | 7.6 | 221 | 10.1 | 43 | 2.0 | 25 | 1.1 | 2193 | 100.0 | | |
| Norwest Private | 389 | 18.9 | 240 | 11.6 | 1 | 0.0 | 546 | 26.5 | 154 | 7.5 | 70 | 3.4 | 626 | 30.4 | 20 | 1.0 | 16 | 0.8 | 2062 | 100.0 | | |
| Sydney Southwest Private | 218 | 21.0 | 130 | 12.5 | 1 | 0.1 | 290 | 27.9 | 129 | 12.4 | 23 | 2.2 | 229 | 22.0 | 4 | 0.4 | 15 | 1.4 | 1039 | 100.0 | | |
| Nepean Private | 106 | 13.4 | 45 | 5.7 | 0 | 0.0 | 265 | 33.4 | 81 | 10.2 | 75 | 9.4 | 197 | 24.8 | 12 | 1.5 | 13 | 1.6 | 794 | 100.0 | | |
| Westmead Private | 569 | 25.4 | 0 | 0.0 | 224 | 10.0 | 772 | 34.4 | 196 | 8.7 | 5 | 0.2 | 469 | 20.9 | 6 | 0.3 | 0 | 0.0 | 2241 | 100.0 | | |
| Wollongong Private | 217 | 24.2 | 0 | 0.0 | 78 | 8.7 | 272 | 30.3 | 30 | 3.3 | 16 | 1.8 | 282 | 31.4 | 2 | 0.2 | 0 | 0.0 | 897 | 100.0 | | |
| Newcastle Private | 369 | 18.6 | 175 | 8.8 | 0 | 0.0 | 642 | 32.4 | 90 | 4.5 | 416 | 21.0 | 174 | 8.8 | 87 | 4.4 | 30 | 1.5 | 1983 | 100.0 | | |
| Calvary, Wagga Wagga | 81 | 20.7 | 9 | 2.3 | 13 | 3.3 | 177 | 45.3 | 39 | 10.0 | 18 | 4.6 | 53 | 13.6 | 1 | 0.3 | 0 | 0.0 | 391 | 100.0 | | |
| Other hospitals | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 22 | 100.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 22 | 100.0 | | |
| TOTAL | 5119 | 22.8 | 1268 | 5.7 | 1462 | 6.5 | 7558 | 33.7 | 1663 | 7.4 | 1117 | 5.0 | 3919 | 17.5 | 230 | 1.0 | 106 | 0.5 | 22442 | 100.0 | | |
| TOTAL NSW* | 33947 | 34.9 | 5932 | 6.1 | 7311 | 7.5 | 19710 | 20.3 | 9673 | 9.9 | 3335 | 3.4 | 16879 | 17.3 | 384 | 0.4 | 135 | 0.1 | 97306 | 100.0 | | |

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

ARM: artificial rupture of membranes.

Hospitals with more than 200 births in 2016 are identified individually. Maternity service levels are described on page 80 in Appendix 2: Explanatory notes.

† May include artificial rupture of membranes.

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

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

Type of birth

Table 39 shows type of birth for local health districts, and Table 40 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2016.

TABLE 39: TYPE OF BIRTH BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2016

| 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 | 3689 | 54.3 | 433 | 6.4 | 537 | 7.9 | 11 | 0.2 | 1232 | 18.1 | 894 | 13.2 | 0 | 0.0 | 6796 | 100.0 |
| South Western Sydney | 7219 | 64.5 | 284 | 2.5 | 696 | 6.2 | 35 | 0.3 | 1798 | 16.1 | 1147 | 10.2 | 16 | 0.1 | 11195 | 100.0 |
| South Eastern Sydney | 4405 | 55.0 | 650 | 8.1 | 617 | 7.7 | 51 | 0.6 | 1152 | 14.4 | 1129 | 14.1 | 0 | 0.0 | 8004 | 100.0 |
| Illawarra Shoalhaven | 2030 | 60.3 | 158 | 4.7 | 191 | 5.7 | 5 | 0.1 | 534 | 15.9 | 447 | 13.3 | 0 | 0.0 | 3365 | 100.0 |
| Western Sydney | 6111 | 60.3 | 533 | 5.3 | 466 | 4.6 | 92 | 0.9 | 1577 | 15.6 | 1352 | 13.3 | 5 | 0.0 | 10136 | 100.0 |
| Nepean Blue Mountains | 2841 | 54.3 | 105 | 2.0 | 326 | 6.2 | 16 | 0.3 | 1070 | 20.5 | 870 | 16.6 | 1 | 0.0 | 5229 | 100.0 |
| Northern Sydney | 3307 | 55.0 | 577 | 9.6 | 295 | 4.9 | 27 | 0.4 | 965 | 16.0 | 842 | 14.0 | 0 | 0.0 | 6013 | 100.0 |
| Central Coast | 1746 | 60.6 | 196 | 6.8 | 153 | 5.3 | 12 | 0.4 | 422 | 14.6 | 353 | 12.2 | 0 | 0.0 | 2882 | 100.0 |
| Hunter New England | 5463 | 62.1 | 378 | 4.3 | 423 | 4.8 | 33 | 0.4 | 1366 | 15.5 | 1131 | 12.9 | 2 | 0.0 | 8796 | 100.0 |
| Northern NSW | 2037 | 67.2 | 119 | 3.9 | 176 | 5.8 | 6 | 0.2 | 368 | 12.1 | 326 | 10.8 | 0 | 0.0 | 3032 | 100.0 |
| Mid North Coast | 1288 | 59.0 | 66 | 3.0 | 107 | 4.9 | 6 | 0.3 | 440 | 20.2 | 273 | 12.5 | 2 | 0.1 | 2182 | 100.0 |
| Southern NSW | 914 | 63.5 | 54 | 3.8 | 96 | 6.7 | 1 | 0.1 | 213 | 14.8 | 162 | 11.3 | 0 | 0.0 | 1440 | 100.0 |
| Murrumbidgee | 1213 | 60.1 | 39 | 1.9 | 136 | 6.7 | 6 | 0.3 | 362 | 17.9 | 263 | 13.0 | 0 | 0.0 | 2019 | 100.0 |
| Western NSW | 2127 | 61.4 | 105 | 3.0 | 213 | 6.2 | 12 | 0.3 | 597 | 17.2 | 408 | 11.8 | 0 | 0.0 | 3462 | 100.0 |
| Far West | 153 | 66.5 | 6 | 2.6 | 4 | 1.7 | 0 | 0.0 | 38 | 16.5 | 28 | 12.2 | 1 | 0.4 | 230 | 100.0 |
| Private Hospitals | 9114 | 40.6 | 833 | 3.7 | 2213 | 9.9 | 26 | 0.1 | 7558 | 33.7 | 2696 | 12.0 | 2 | 0.0 | 22442 | 100.0 |
| TOTAL* | 53740 | 55.2 | 4536 | 4.7 | 6649 | 6.8 | 339 | 0.3 | 19692 | 20.2 | 12321 | 12.7 | 29 | 0.0 | 97306 | 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 40: TYPE OF BIRTH BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2016[#]

| Maternity service level-hospital | Type of birth | | | | | | | | | | | | | | | |
|----------------------------------|----------------|-------------|-------------|------------|-------------------|------------|----------------|------------|----------------------------|-------------|--|-------------|------------|------------|--------------|--------------|
| | Normal vaginal | | Forceps | | Vacuum extraction | | Vaginal breech | | Elective caesarean section | | Emergency caesarean section [†] | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Level 6 | | | | | | | | | | | | | | | | |
| Royal Prince Alfred | 2698 | 53.6 | 354 | 7.0 | 365 | 7.3 | 10 | 0.2 | 962 | 19.1 | 642 | 12.8 | 0 | 0.0 | 5031 | 100.0 |
| Royal North Shore | 1484 | 50.3 | 360 | 12.2 | 103 | 3.5 | 19 | 0.6 | 574 | 19.5 | 409 | 13.9 | 0 | 0.0 | 2949 | 100.0 |
| Royal Hospital for Women | 2107 | 51.7 | 379 | 9.3 | 320 | 7.9 | 43 | 1.1 | 639 | 15.7 | 586 | 14.4 | 0 | 0.0 | 4074 | 100.0 |
| Liverpool | 2093 | 61.1 | 160 | 4.7 | 183 | 5.3 | 20 | 0.6 | 625 | 18.2 | 340 | 9.9 | 6 | 0.2 | 3427 | 100.0 |
| Nepean | 2215 | 53.9 | 95 | 2.3 | 239 | 5.8 | 15 | 0.4 | 858 | 20.9 | 684 | 16.7 | 0 | 0.0 | 4106 | 100.0 |
| Westmead | 3213 | 57.8 | 323 | 5.8 | 261 | 4.7 | 78 | 1.4 | 946 | 17.0 | 739 | 13.3 | 0 | 0.0 | 5560 | 100.0 |
| John Hunter | 2271 | 57.5 | 226 | 5.7 | 195 | 4.9 | 20 | 0.5 | 677 | 17.1 | 558 | 14.1 | 1 | 0.0 | 3948 | 100.0 |
| TOTAL | 16081 | 55.3 | 1897 | 6.5 | 1666 | 5.7 | 205 | 0.7 | 5281 | 18.2 | 3958 | 13.6 | 7 | 0.0 | 29095 | 100.0 |
| Level 5 | | | | | | | | | | | | | | | | |
| Gosford | 1610 | 58.6 | 196 | 7.1 | 153 | 5.6 | 12 | 0.4 | 422 | 15.4 | 353 | 12.9 | 0 | 0.0 | 2746 | 100.0 |
| St. George | 1398 | 55.0 | 173 | 6.8 | 229 | 9.0 | 4 | 0.2 | 348 | 13.7 | 391 | 15.4 | 0 | 0.0 | 2543 | 100.0 |
| Blacktown | 1945 | 60.4 | 164 | 5.1 | 167 | 5.2 | 10 | 0.3 | 486 | 15.1 | 449 | 13.9 | 0 | 0.0 | 3221 | 100.0 |
| Coffs Harbour | 611 | 55.9 | 27 | 2.5 | 60 | 5.5 | 1 | 0.1 | 260 | 23.8 | 134 | 12.2 | 1 | 0.1 | 1094 | 100.0 |
| Lismore Base | 739 | 65.1 | 54 | 4.8 | 72 | 6.3 | 3 | 0.3 | 133 | 11.7 | 135 | 11.9 | 0 | 0.0 | 1136 | 100.0 |
| Tweed Heads | 799 | 65.1 | 48 | 3.9 | 82 | 6.7 | 2 | 0.2 | 164 | 13.4 | 133 | 10.8 | 0 | 0.0 | 1228 | 100.0 |
| Port Macquarie Base | 431 | 56.3 | 37 | 4.8 | 34 | 4.4 | 4 | 0.5 | 149 | 19.5 | 110 | 14.4 | 0 | 0.0 | 765 | 100.0 |
| Dubbo Base | 743 | 59.4 | 52 | 4.2 | 80 | 6.4 | 2 | 0.2 | 229 | 18.3 | 145 | 11.6 | 0 | 0.0 | 1251 | 100.0 |
| Wollongong | 1478 | 59.5 | 117 | 4.7 | 163 | 6.6 | 4 | 0.2 | 386 | 15.6 | 334 | 13.5 | 0 | 0.0 | 2482 | 100.0 |
| Wagga Wagga Base | 580 | 57.3 | 31 | 3.1 | 57 | 5.6 | 3 | 0.3 | 204 | 20.2 | 137 | 13.5 | 0 | 0.0 | 1012 | 100.0 |
| TOTAL | 10334 | 59.1 | 899 | 5.1 | 1097 | 6.3 | 45 | 0.3 | 2781 | 15.9 | 2321 | 13.3 | 1 | 0.0 | 17478 | 100.0 |
| Level 4 | | | | | | | | | | | | | | | | |
| Canterbury | 991 | 56.1 | 79 | 4.5 | 172 | 9.7 | 1 | 0.1 | 270 | 15.3 | 252 | 14.3 | 0 | 0.0 | 1765 | 100.0 |
| Hornsby | 749 | 61.5 | 115 | 9.4 | 46 | 3.8 | 4 | 0.3 | 138 | 11.3 | 165 | 13.6 | 0 | 0.0 | 1217 | 100.0 |
| Manly | 526 | 53.6 | 61 | 6.2 | 95 | 9.7 | 1 | 0.1 | 143 | 14.6 | 156 | 15.9 | 0 | 0.0 | 982 | 100.0 |
| Mona Vale | 445 | 58.4 | 41 | 5.4 | 51 | 6.7 | 3 | 0.4 | 110 | 14.4 | 112 | 14.7 | 0 | 0.0 | 762 | 100.0 |

(Continued on next page)

TABLE 40: (Continued)

| Maternity service level–hospital | Type of birth | | | | | | | | | | | | | | | |
|----------------------------------|----------------|-------------|-------------|------------|-------------------|------------|----------------|------------|----------------------------|-------------|------------------------------|-------------|------------|------------|--------------|--------------|
| | Normal vaginal | | Forceps | | Vacuum extraction | | Vaginal breech | | Elective caesarean section | | Emergency caesarean section† | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sutherland | 900 | 64.9 | 98 | 7.1 | 68 | 4.9 | 4 | 0.3 | 165 | 11.9 | 152 | 11.0 | 0 | 0.0 | 1387 | 100.0 |
| Campbelltown | 2220 | 66.3 | 31 | 0.9 | 292 | 8.7 | 8 | 0.2 | 485 | 14.5 | 308 | 9.2 | 2 | 0.1 | 3346 | 100.0 |
| Bankstown-Lidcombe | 1384 | 63.4 | 51 | 2.3 | 103 | 4.7 | 4 | 0.2 | 348 | 15.9 | 285 | 13.1 | 7 | 0.3 | 2182 | 100.0 |
| Grafton Base | 274 | 65.1 | 13 | 3.1 | 18 | 4.3 | 0 | 0.0 | 66 | 15.7 | 50 | 11.9 | 0 | 0.0 | 421 | 100.0 |
| Armidale | 237 | 58.5 | 15 | 3.7 | 18 | 4.4 | 3 | 0.7 | 73 | 18.0 | 59 | 14.6 | 0 | 0.0 | 405 | 100.0 |
| Tamworth Base | 592 | 59.4 | 56 | 5.6 | 42 | 4.2 | 2 | 0.2 | 149 | 15.0 | 154 | 15.5 | 1 | 0.1 | 996 | 100.0 |
| Manning Base | 429 | 65.8 | 26 | 4.0 | 45 | 6.9 | 1 | 0.2 | 86 | 13.2 | 65 | 10.0 | 0 | 0.0 | 652 | 100.0 |
| Orange Base | 606 | 56.8 | 31 | 2.9 | 66 | 6.2 | 8 | 0.8 | 216 | 20.3 | 139 | 13.0 | 0 | 0.0 | 1066 | 100.0 |
| Maitland | 979 | 67.5 | 36 | 2.5 | 62 | 4.3 | 2 | 0.1 | 188 | 13.0 | 184 | 12.7 | 0 | 0.0 | 1451 | 100.0 |
| Griffith Base | 298 | 56.9 | 3 | 0.6 | 51 | 9.7 | 2 | 0.4 | 89 | 17.0 | 81 | 15.5 | 0 | 0.0 | 524 | 100.0 |
| TOTAL | 10630 | 62.0 | 656 | 3.8 | 1129 | 6.6 | 43 | 0.3 | 2526 | 14.7 | 2162 | 12.6 | 10 | 0.1 | 17156 | 100.0 |
| Level 3 | | | | | | | | | | | | | | | | |
| Auburn | 953 | 70.3 | 46 | 3.4 | 38 | 2.8 | 4 | 0.3 | 145 | 10.7 | 164 | 12.1 | 5 | 0.4 | 1355 | 100.0 |
| Blue Mountains | 134 | 56.8 | 2 | 0.8 | 24 | 10.2 | 0 | 0.0 | 43 | 18.2 | 33 | 14.0 | 0 | 0.0 | 236 | 100.0 |
| Fairfield | 1273 | 70.8 | 9 | 0.5 | 93 | 5.2 | 3 | 0.2 | 266 | 14.8 | 153 | 8.5 | 0 | 0.0 | 1797 | 100.0 |
| Hawkesbury | 354 | 52.4 | 7 | 1.0 | 58 | 8.6 | 1 | 0.1 | 128 | 18.9 | 128 | 18.9 | 0 | 0.0 | 676 | 100.0 |
| Kempsey | 200 | 73.0 | 2 | 0.7 | 13 | 4.7 | 1 | 0.4 | 29 | 10.6 | 29 | 10.6 | 0 | 0.0 | 274 | 100.0 |
| Inverell | 146 | 59.3 | 12 | 4.9 | 6 | 2.4 | 3 | 1.2 | 61 | 24.8 | 18 | 7.3 | 0 | 0.0 | 246 | 100.0 |
| Mudgee | 164 | 66.4 | 4 | 1.6 | 22 | 8.9 | 0 | 0.0 | 35 | 14.2 | 22 | 8.9 | 0 | 0.0 | 247 | 100.0 |
| Bathurst Base | 329 | 67.1 | 15 | 3.1 | 23 | 4.7 | 2 | 0.4 | 63 | 12.9 | 58 | 11.8 | 0 | 0.0 | 490 | 100.0 |
| Lithgow | 138 | 65.4 | 1 | 0.5 | 5 | 2.4 | 0 | 0.0 | 41 | 19.4 | 25 | 11.8 | 1 | 0.5 | 211 | 100.0 |
| Bega | 158 | 61.7 | 9 | 3.5 | 16 | 6.3 | 0 | 0.0 | 33 | 12.9 | 40 | 15.6 | 0 | 0.0 | 256 | 100.0 |
| Goulburn Base | 163 | 57.0 | 17 | 5.9 | 15 | 5.2 | 0 | 0.0 | 57 | 19.9 | 34 | 11.9 | 0 | 0.0 | 286 | 100.0 |
| Moruya | 199 | 66.3 | 10 | 3.3 | 8 | 2.7 | 1 | 0.3 | 52 | 17.3 | 30 | 10.0 | 0 | 0.0 | 300 | 100.0 |
| Queanbeyan | 274 | 60.9 | 18 | 4.0 | 50 | 11.1 | 0 | 0.0 | 60 | 13.3 | 48 | 10.7 | 0 | 0.0 | 450 | 100.0 |
| Bowral | 249 | 56.2 | 33 | 7.4 | 25 | 5.6 | 0 | 0.0 | 74 | 16.7 | 61 | 13.8 | 1 | 0.2 | 443 | 100.0 |
| Shoalhaven | 537 | 62.0 | 41 | 4.7 | 28 | 3.2 | 1 | 0.1 | 148 | 17.1 | 111 | 12.8 | 0 | 0.0 | 866 | 100.0 |
| Broken Hill Base | 153 | 66.5 | 6 | 2.6 | 4 | 1.7 | 0 | 0.0 | 38 | 16.5 | 28 | 12.2 | 1 | 0.4 | 230 | 100.0 |
| Other hospitals | 1084 | 68.0 | 15 | 0.9 | 90 | 5.6 | 3 | 0.2 | 228 | 14.3 | 173 | 10.9 | 0 | 0.0 | 1593 | 100.0 |
| TOTAL | 6508 | 65.4 | 247 | 2.5 | 518 | 5.2 | 19 | 0.2 | 1501 | 15.1 | 1155 | 11.6 | 8 | 0.1 | 9956 | 100.0 |
| Level 2 | | | | | | | | | | | | | | | | |
| TOTAL | 973 | 90.3 | 4 | 0.4 | 26 | 2.4 | 1 | 0.1 | 45 | 4.2 | 27 | 2.5 | 1 | 0.1 | 1077 | 100.0 |
| Private | | | | | | | | | | | | | | | | |
| Mater, North Sydney | 841 | 35.3 | 72 | 3.0 | 227 | 9.5 | 0 | 0.0 | 908 | 38.1 | 335 | 14.1 | 0 | 0.0 | 2383 | 100.0 |
| North Shore Private | 883 | 35.2 | 102 | 4.1 | 229 | 9.1 | 2 | 0.1 | 933 | 37.1 | 363 | 14.5 | 0 | 0.0 | 2512 | 100.0 |
| Sydney Adventist | 960 | 47.2 | 96 | 4.7 | 171 | 8.4 | 5 | 0.2 | 572 | 28.1 | 229 | 11.3 | 0 | 0.0 | 2033 | 100.0 |
| North Gosford Private | 259 | 36.2 | 24 | 3.4 | 76 | 10.6 | 2 | 0.3 | 236 | 33.0 | 118 | 16.5 | 0 | 0.0 | 715 | 100.0 |
| Hurstville Community | 371 | 45.1 | 22 | 2.7 | 99 | 12.0 | 0 | 0.0 | 220 | 26.7 | 109 | 13.2 | 2 | 0.2 | 823 | 100.0 |
| Kareena Private | 291 | 37.2 | 58 | 7.4 | 55 | 7.0 | 1 | 0.1 | 282 | 36.0 | 96 | 12.3 | 0 | 0.0 | 783 | 100.0 |
| St. George Private | 607 | 38.6 | 70 | 4.5 | 184 | 11.7 | 1 | 0.1 | 494 | 31.4 | 215 | 13.7 | 0 | 0.0 | 1571 | 100.0 |
| Prince of Wales Private | 725 | 33.1 | 64 | 2.9 | 239 | 10.9 | 0 | 0.0 | 927 | 42.3 | 238 | 10.9 | 0 | 0.0 | 2193 | 100.0 |
| Norwest Private | 1030 | 50.0 | 96 | 4.7 | 168 | 8.1 | 3 | 0.1 | 546 | 26.5 | 219 | 10.6 | 0 | 0.0 | 2062 | 100.0 |
| Sydney Southwest Private | 505 | 48.6 | 56 | 5.4 | 113 | 10.9 | 0 | 0.0 | 290 | 27.9 | 75 | 7.2 | 0 | 0.0 | 1039 | 100.0 |
| Nepean Private | 353 | 44.5 | 10 | 1.3 | 77 | 9.7 | 2 | 0.3 | 265 | 33.4 | 87 | 11.0 | 0 | 0.0 | 794 | 100.0 |
| Westmead Private | 987 | 44.0 | 120 | 5.4 | 118 | 5.3 | 5 | 0.2 | 772 | 34.4 | 239 | 10.7 | 0 | 0.0 | 2241 | 100.0 |
| Wollongong Private | 334 | 37.2 | 21 | 2.3 | 145 | 16.2 | 2 | 0.2 | 272 | 30.3 | 123 | 13.7 | 0 | 0.0 | 897 | 100.0 |
| Newcastle Private | 835 | 42.1 | 22 | 1.1 | 277 | 14.0 | 3 | 0.2 | 642 | 32.4 | 204 | 10.3 | 0 | 0.0 | 1983 | 100.0 |
| Calvary, Wagga Wagga | 133 | 34.0 | 0 | 0.0 | 35 | 9.0 | 0 | 0.0 | 177 | 45.3 | 46 | 11.8 | 0 | 0.0 | 391 | 100.0 |
| Other hospitals | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 22 | 100.0 | 0 | 0.0 | 0 | 0.0 | 22 | 100.0 |
| TOTAL | 9114 | 40.6 | 833 | 3.7 | 2213 | 9.9 | 26 | 0.1 | 7558 | 33.7 | 2696 | 12.0 | 2 | 0.0 | 22442 | 100.0 |
| TOTAL NSW* | 53740 | 55.2 | 4536 | 4.7 | 6649 | 6.8 | 339 | 0.3 | 19692 | 20.2 | 12321 | 12.7 | 29 | 0.0 | 97306 | 100.0 |

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

Hospitals with more than 200 births in 2016 are identified individually. Maternity service levels are described on page 80 in Appendix 2: Explanatory notes.

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

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

Pain relief

Table 41 shows type of pain relief provided to women during labour or delivery for local health districts, and Table 42 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2016.

In addition to the types of pain relief shown in the tables, in 2016 a further 24,821 (25.5%) women were reported to have received local anaesthetic to the perineum, and 739 (0.8%) received a pudendal block.

TABLE 41: PAIN RELIEF BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2016

| Local Health District | Epidural-spinal [†] | | General anaesthetic | | IM narcotics | | Nitrous oxide | | Nil | | TOTAL [‡] | |
|-----------------------|------------------------------|-------------|---------------------|------------|--------------|-------------|---------------|-------------|-------------|------------|--------------------|--------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 3233 | 47.6 | 294 | 4.3 | 343 | 5.0 | 2989 | 44.0 | 788 | 11.6 | 6796 | 100.0 |
| South Western Sydney | 4031 | 36.0 | 507 | 4.5 | 1931 | 17.2 | 5414 | 48.4 | 1532 | 13.7 | 11195 | 100.0 |
| South Eastern Sydney | 4295 | 53.7 | 173 | 2.2 | 1261 | 15.8 | 3868 | 48.3 | 433 | 5.4 | 8004 | 100.0 |
| Illawarra Shoalhaven | 1551 | 46.1 | 114 | 3.4 | 355 | 10.5 | 1723 | 51.2 | 288 | 8.6 | 3365 | 100.0 |
| Western Sydney | 4885 | 48.2 | 328 | 3.2 | 884 | 8.7 | 4766 | 47.0 | 586 | 5.8 | 10136 | 100.0 |
| Nepean Blue Mountains | 2586 | 49.5 | 272 | 5.2 | 825 | 15.8 | 2543 | 48.6 | 337 | 6.4 | 5229 | 100.0 |
| Northern Sydney | 3085 | 51.3 | 163 | 2.7 | 578 | 9.6 | 2619 | 43.6 | 307 | 5.1 | 6013 | 100.0 |
| Central Coast | 1267 | 44.0 | 111 | 3.9 | 520 | 18.0 | 1277 | 44.3 | 242 | 8.4 | 2882 | 100.0 |
| Hunter New England | 3384 | 38.5 | 477 | 5.4 | 1501 | 17.1 | 4400 | 50.0 | 820 | 9.3 | 8796 | 100.0 |
| Northern NSW | 1168 | 38.5 | 77 | 2.5 | 472 | 15.6 | 1381 | 45.5 | 364 | 12.0 | 3032 | 100.0 |
| Mid North Coast | 958 | 43.9 | 78 | 3.6 | 252 | 11.5 | 929 | 42.6 | 238 | 10.9 | 2182 | 100.0 |
| Southern NSW | 521 | 36.2 | 40 | 2.8 | 193 | 13.4 | 740 | 51.4 | 211 | 14.7 | 1440 | 100.0 |
| Murrumbidgee | 732 | 36.3 | 50 | 2.5 | 469 | 23.2 | 1023 | 50.7 | 273 | 13.5 | 2019 | 100.0 |
| Western NSW | 1353 | 39.1 | 153 | 4.4 | 653 | 18.9 | 1751 | 50.6 | 267 | 7.7 | 3462 | 100.0 |
| Far West | 80 | 34.8 | 5 | 2.2 | 31 | 13.5 | 111 | 48.3 | 40 | 17.4 | 230 | 100.0 |
| Private Hospitals | 17219 | 76.7 | 262 | 1.2 | 1546 | 6.9 | 5999 | 26.7 | 1149 | 5.1 | 22442 | 100.0 |
| TOTAL NSW* | 50348 | 51.7 | 3104 | 3.2 | 11814 | 12.1 | 41535 | 42.7 | 7917 | 8.1 | 97306 | 100.0 |

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

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

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

* Total includes births at home assisted by independent midwives

TABLE 42: PAIN RELIEF BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2016[‡]

| Maternity service level—hospital | Epidural-spinal [†] | | General anaesthetic | | IM narcotics | | Nitrous oxide | | Nil | | TOTAL [‡] | |
|----------------------------------|------------------------------|-------------|---------------------|------------|--------------|-------------|---------------|-------------|-------------|------------|--------------------|--------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Level 6 | | | | | | | | | | | | |
| Royal Prince Alfred | 2471 | 49.1 | 229 | 4.6 | 224 | 4.5 | 2117 | 42.1 | 599 | 11.9 | 5031 | 100.0 |
| Royal North Shore | 1717 | 58.2 | 72 | 2.4 | 280 | 9.5 | 1272 | 43.1 | 101 | 3.4 | 2949 | 100.0 |
| Royal Hospital for Women | 2364 | 58.0 | 71 | 1.7 | 665 | 16.3 | 1754 | 43.1 | 214 | 5.3 | 4074 | 100.0 |
| Liverpool | 1510 | 44.1 | 182 | 5.3 | 607 | 17.7 | 1529 | 44.6 | 282 | 8.2 | 3427 | 100.0 |
| Nepean | 2100 | 51.1 | 230 | 5.6 | 631 | 15.4 | 2016 | 49.1 | 254 | 6.2 | 4106 | 100.0 |
| Westmead | 2930 | 52.7 | 188 | 3.4 | 451 | 8.1 | 2465 | 44.3 | 212 | 3.8 | 5560 | 100.0 |
| John Hunter | 1800 | 45.6 | 281 | 7.1 | 770 | 19.5 | 1954 | 49.5 | 255 | 6.5 | 3948 | 100.0 |
| TOTAL | 14892 | 51.2 | 1253 | 4.3 | 3628 | 12.5 | 13107 | 45.0 | 1917 | 6.6 | 29095 | 100.0 |
| Level 5 | | | | | | | | | | | | |
| Gosford | 1267 | 46.1 | 111 | 4.0 | 518 | 18.9 | 1236 | 45.0 | 228 | 8.3 | 2746 | 100.0 |
| St. George | 1283 | 50.5 | 69 | 2.7 | 474 | 18.6 | 1356 | 53.3 | 117 | 4.6 | 2543 | 100.0 |
| Blacktown | 1463 | 45.4 | 120 | 3.7 | 351 | 10.9 | 1519 | 47.2 | 250 | 7.8 | 3221 | 100.0 |
| Coffs Harbour | 527 | 48.2 | 45 | 4.1 | 142 | 13.0 | 435 | 39.8 | 104 | 9.5 | 1094 | 100.0 |
| Lismore Base | 482 | 42.4 | 23 | 2.0 | 184 | 16.2 | 527 | 46.4 | 149 | 13.1 | 1136 | 100.0 |
| Tweed Heads | 520 | 42.3 | 38 | 3.1 | 195 | 15.9 | 607 | 49.4 | 109 | 8.9 | 1228 | 100.0 |
| Port Macquarie Base | 365 | 47.7 | 23 | 3.0 | 46 | 6.0 | 323 | 42.2 | 79 | 10.3 | 765 | 100.0 |
| Dubbo Base | 505 | 40.4 | 63 | 5.0 | 275 | 22.0 | 605 | 48.4 | 86 | 6.9 | 1251 | 100.0 |
| Wollongong | 1185 | 47.7 | 86 | 3.5 | 175 | 7.1 | 1254 | 50.5 | 207 | 8.3 | 2482 | 100.0 |
| Wagga Wagga Base | 424 | 41.9 | 35 | 3.5 | 224 | 22.1 | 506 | 50.0 | 122 | 12.1 | 1012 | 100.0 |
| TOTAL | 8021 | 45.9 | 613 | 3.5 | 2584 | 14.8 | 8368 | 47.9 | 1451 | 8.3 | 17478 | 100.0 |
| Level 4 | | | | | | | | | | | | |
| Canterbury | 762 | 43.2 | 65 | 3.7 | 119 | 6.7 | 872 | 49.4 | 189 | 10.7 | 1765 | 100.0 |
| Hornsby | 539 | 44.3 | 36 | 3.0 | 113 | 9.3 | 648 | 53.2 | 70 | 5.8 | 1217 | 100.0 |
| Manly | 506 | 51.5 | 25 | 2.5 | 90 | 9.2 | 344 | 35.0 | 60 | 6.1 | 982 | 100.0 |
| Mona Vale | 323 | 42.4 | 30 | 3.9 | 94 | 12.3 | 336 | 44.1 | 60 | 7.9 | 762 | 100.0 |
| Sutherland | 648 | 46.7 | 33 | 2.4 | 122 | 8.8 | 758 | 54.7 | 102 | 7.4 | 1387 | 100.0 |

(Continued on next page)

TABLE 42: (Continued)

| Maternity service level–hospital | Epidural-spinal [†] | | General anaesthetic | | IM narcotics | | Nitrous oxide | | Nil | | TOTAL [‡] | |
|----------------------------------|------------------------------|-------------|---------------------|------------|--------------|-------------|---------------|-------------|-------------|-------------|--------------------|--------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Campbelltown | 1069 | 31.9 | 127 | 3.8 | 508 | 15.2 | 1569 | 46.9 | 672 | 20.1 | 3346 | 100.0 |
| Bankstown-Lidcombe | 861 | 39.5 | 104 | 4.8 | 389 | 17.8 | 1198 | 54.9 | 203 | 9.3 | 2182 | 100.0 |
| Grafton Base | 147 | 34.9 | 13 | 3.1 | 83 | 19.7 | 189 | 44.9 | 57 | 13.5 | 421 | 100.0 |
| Armidale | 158 | 39.0 | 10 | 2.5 | 109 | 26.9 | 203 | 50.1 | 29 | 7.2 | 405 | 100.0 |
| Tamworth Base | 430 | 43.2 | 34 | 3.4 | 154 | 15.5 | 527 | 52.9 | 85 | 8.5 | 996 | 100.0 |
| Manning Base | 218 | 33.4 | 33 | 5.1 | 176 | 27.0 | 357 | 54.8 | 72 | 11.0 | 652 | 100.0 |
| Orange Base | 502 | 47.1 | 60 | 5.6 | 169 | 15.9 | 516 | 48.4 | 77 | 7.2 | 1066 | 100.0 |
| Maitland | 488 | 33.6 | 80 | 5.5 | 118 | 8.1 | 785 | 54.1 | 176 | 12.1 | 1451 | 100.0 |
| Griffith Base | 199 | 38.0 | 13 | 2.5 | 156 | 29.8 | 274 | 52.3 | 66 | 12.6 | 524 | 100.0 |
| TOTAL | 6850 | 39.9 | 663 | 3.9 | 2400 | 14.0 | 8576 | 50.0 | 1918 | 11.2 | 17156 | 100.0 |
| Level 3 | | | | | | | | | | | | |
| Auburn | 492 | 36.3 | 20 | 1.5 | 82 | 6.1 | 782 | 57.7 | 124 | 9.2 | 1355 | 100.0 |
| Blue Mountains | 86 | 36.4 | 6 | 2.5 | 21 | 8.9 | 101 | 42.8 | 14 | 5.9 | 236 | 100.0 |
| Fairfield | 399 | 22.2 | 80 | 4.5 | 266 | 14.8 | 920 | 51.2 | 319 | 17.8 | 1797 | 100.0 |
| Hawkesbury | 311 | 46.0 | 34 | 5.0 | 139 | 20.6 | 323 | 47.8 | 54 | 8.0 | 676 | 100.0 |
| Kempsey | 63 | 23.0 | 10 | 3.6 | 56 | 20.4 | 153 | 55.8 | 41 | 15.0 | 274 | 100.0 |
| Inverell | 74 | 30.1 | 2 | 0.8 | 44 | 17.9 | 102 | 41.5 | 37 | 15.0 | 246 | 100.0 |
| Mudgee | 77 | 31.2 | 5 | 2.0 | 23 | 9.3 | 128 | 51.8 | 29 | 11.7 | 247 | 100.0 |
| Bathurst Base | 157 | 32.0 | 13 | 2.7 | 66 | 13.5 | 268 | 54.7 | 45 | 9.2 | 490 | 100.0 |
| Lithgow | 89 | 42.2 | 2 | 0.9 | 34 | 16.1 | 103 | 48.8 | 15 | 7.1 | 211 | 100.0 |
| Bega | 99 | 38.7 | 6 | 2.3 | 48 | 18.8 | 123 | 48.0 | 42 | 16.4 | 256 | 100.0 |
| Goulburn Base | 107 | 37.4 | 13 | 4.5 | 50 | 17.5 | 178 | 62.2 | 18 | 6.3 | 286 | 100.0 |
| Moruya | 96 | 32.0 | 10 | 3.3 | 29 | 9.7 | 129 | 43.0 | 59 | 19.7 | 300 | 100.0 |
| Queanbeyan | 185 | 41.1 | 8 | 1.8 | 52 | 11.6 | 231 | 51.3 | 59 | 13.1 | 450 | 100.0 |
| Bowral | 192 | 43.3 | 14 | 3.2 | 161 | 36.3 | 198 | 44.7 | 56 | 12.6 | 443 | 100.0 |
| Shoalhaven | 365 | 42.1 | 27 | 3.1 | 179 | 20.7 | 460 | 53.1 | 78 | 9.0 | 866 | 100.0 |
| Broken Hill Base | 80 | 34.8 | 5 | 2.2 | 31 | 13.5 | 111 | 48.3 | 40 | 17.4 | 230 | 100.0 |
| Other hospitals | 389 | 24.4 | 46 | 2.9 | 304 | 19.1 | 830 | 52.1 | 219 | 13.7 | 1593 | 100.0 |
| TOTAL | 3261 | 32.8 | 301 | 3.0 | 1585 | 15.9 | 5140 | 51.6 | 1249 | 12.5 | 9956 | 100.0 |
| Level 2 | | | | | | | | | | | | |
| TOTAL | 104 | 9.7 | 11 | 1.0 | 70 | 6.5 | 333 | 30.9 | 187 | 17.4 | 1077 | 100.0 |
| Private | | | | | | | | | | | | |
| Mater, North Sydney | 1813 | 76.1 | 13 | 0.5 | 105 | 4.4 | 564 | 23.7 | 142 | 6.0 | 2383 | 100.0 |
| North Shore Private | 2010 | 80.0 | 24 | 1.0 | 81 | 3.2 | 675 | 26.9 | 60 | 2.4 | 2512 | 100.0 |
| Sydney Adventist | 1520 | 74.8 | 21 | 1.0 | 228 | 11.2 | 658 | 32.4 | 90 | 4.4 | 2033 | 100.0 |
| North Gosford Private | 537 | 75.1 | 8 | 1.1 | 33 | 4.6 | 200 | 28.0 | 12 | 1.7 | 715 | 100.0 |
| Hurstville Community | 609 | 74.0 | 4 | 0.5 | 44 | 5.3 | 234 | 28.4 | 24 | 2.9 | 823 | 100.0 |
| Kareena Private | 662 | 84.5 | 9 | 1.1 | 8 | 1.0 | 114 | 14.6 | 38 | 4.9 | 783 | 100.0 |
| St. George Private | 1273 | 81.0 | 26 | 1.7 | 49 | 3.1 | 304 | 19.4 | 69 | 4.4 | 1571 | 100.0 |
| Prince of Wales Private | 1864 | 85.0 | 27 | 1.2 | 116 | 5.3 | 525 | 23.9 | 99 | 4.5 | 2193 | 100.0 |
| Norwest Private | 1510 | 73.2 | 33 | 1.6 | 155 | 7.5 | 569 | 27.6 | 181 | 8.8 | 2062 | 100.0 |
| Sydney Southwest Private | 677 | 65.2 | 10 | 1.0 | 257 | 24.7 | 250 | 24.1 | 99 | 9.5 | 1039 | 100.0 |
| Nepean Private | 525 | 66.1 | 18 | 2.3 | 152 | 19.1 | 279 | 35.1 | 51 | 6.4 | 794 | 100.0 |
| Westmead Private | 1731 | 77.2 | 28 | 1.2 | 91 | 4.1 | 587 | 26.2 | 43 | 1.9 | 2241 | 100.0 |
| Wollongong Private | 737 | 82.2 | 18 | 2.0 | 1 | 0.1 | 295 | 32.9 | 31 | 3.5 | 897 | 100.0 |
| Newcastle Private | 1461 | 73.7 | 19 | 1.0 | 194 | 9.8 | 642 | 32.4 | 161 | 8.1 | 1983 | 100.0 |
| Calvary, Wagga Wagga | 269 | 68.8 | 3 | 0.8 | 32 | 8.2 | 103 | 26.3 | 49 | 12.5 | 391 | 100.0 |
| Other hospitals | 21 | 95.5 | 1 | 4.5 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 22 | 100.0 |
| TOTAL | 17219 | 76.7 | 262 | 1.2 | 1546 | 6.9 | 5999 | 26.7 | 1149 | 5.1 | 22442 | 100.0 |
| TOTAL NSW* | 50348 | 51.7 | 3104 | 3.2 | 11814 | 12.1 | 41535 | 42.7 | 7917 | 8.1 | 97306 | 100.0 |

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

Hospitals with more than 200 births in 2016 are identified individually. Maternity service levels are described on page 80 in Appendix 2: Explanatory notes.

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

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

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

Perineal status

Table 43 shows the perineal status in vaginal births for local health districts, and Table 44 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2016.

In 2016, there were 1,896 cases of third degree tear and 96 cases of fourth degree tear reported among women who gave birth vaginally, including tears associated with an episiotomy.

TABLE 43: PERINEAL STATUS AMONG VAGINAL BIRTHS BY LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2016

| Local Health District | Perineal status | | | | | | | | | | | | | | TOTAL | | | |
|-----------------------|-----------------|-------------|---------------------------|-------------|-----------------|-------------|---------------------------|------------|--------------|-------------|---------------------------------|------------|-------------|------------|------------|------------|--------------|--------------|
| | Intact | | 1st degree tear/ graze | | 2nd degree tear | | 3rd or 4th degree tear | | Episiotomy | | Combined tear and episiotomy | | Other | | | | Not stated | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 642 | 13.7 | 932 | 20.0 | 1719 | 36.8 | 185 | 4.0 | 857 | 18.4 | 215 | 4.6 | 120 | 2.6 | 0 | 0.0 | 4670 | 100.0 |
| South Western Sydney | 1879 | 22.8 | 1908 | 23.2 | 2413 | 29.3 | 242 | 2.9 | 1314 | 16.0 | 163 | 2.0 | 296 | 3.6 | 19 | 0.2 | 8234 | 100.0 |
| South Eastern Sydney | 722 | 12.6 | 1491 | 26.1 | 1905 | 33.3 | 147 | 2.6 | 937 | 16.4 | 471 | 8.2 | 50 | 0.9 | 0 | 0.0 | 5723 | 100.0 |
| Illawarra Shoalhaven | 548 | 23.0 | 767 | 32.2 | 642 | 26.9 | 45 | 1.9 | 273 | 11.5 | 95 | 4.0 | 12 | 0.5 | 2 | 0.1 | 2384 | 100.0 |
| Western Sydney | 891 | 12.4 | 1871 | 26.0 | 2078 | 28.9 | 106 | 1.5 | 1480 | 20.5 | 721 | 10.0 | 42 | 0.6 | 13 | 0.2 | 7202 | 100.0 |
| Nepean Blue Mountains | 497 | 15.1 | 1184 | 36.0 | 912 | 27.7 | 73 | 2.2 | 349 | 10.6 | 237 | 7.2 | 30 | 0.9 | 6 | 0.2 | 3288 | 100.0 |
| Northern Sydney | 439 | 10.4 | 1071 | 25.5 | 1582 | 37.6 | 139 | 3.3 | 582 | 13.8 | 371 | 8.8 | 22 | 0.5 | 0 | 0.0 | 4206 | 100.0 |
| Central Coast | 304 | 14.4 | 771 | 36.6 | 662 | 31.4 | 47 | 2.2 | 179 | 8.5 | 116 | 5.5 | 28 | 1.3 | 0 | 0.0 | 2107 | 100.0 |
| Hunter New England | 1280 | 20.3 | 2261 | 35.9 | 1675 | 26.6 | 138 | 2.2 | 577 | 9.2 | 294 | 4.7 | 61 | 1.0 | 11 | 0.2 | 6297 | 100.0 |
| Northern NSW | 450 | 19.2 | 882 | 37.7 | 667 | 28.5 | 34 | 1.5 | 200 | 8.6 | 70 | 3.0 | 31 | 1.3 | 4 | 0.2 | 2338 | 100.0 |
| Mid North Coast | 333 | 22.7 | 532 | 36.3 | 357 | 24.3 | 26 | 1.8 | 148 | 10.1 | 49 | 3.3 | 22 | 1.5 | 0 | 0.0 | 1467 | 100.0 |
| Southern NSW | 247 | 23.2 | 367 | 34.5 | 273 | 25.6 | 33 | 3.1 | 106 | 10.0 | 29 | 2.7 | 10 | 0.9 | 0 | 0.0 | 1065 | 100.0 |
| Murrumbidgee | 324 | 23.2 | 526 | 37.7 | 314 | 22.5 | 16 | 1.1 | 146 | 10.5 | 60 | 4.3 | 7 | 0.5 | 1 | 0.1 | 1394 | 100.0 |
| Western NSW | 460 | 18.7 | 978 | 39.8 | 568 | 23.1 | 51 | 2.1 | 258 | 10.5 | 120 | 4.9 | 19 | 0.8 | 3 | 0.1 | 2457 | 100.0 |
| Far West | 55 | 33.7 | 69 | 42.3 | 32 | 19.6 | 2 | 1.2 | 3 | 1.8 | 2 | 1.2 | 0 | 0.0 | 0 | 0.0 | 163 | 100.0 |
| Private Hospitals | 1848 | 15.2 | 2024 | 16.6 | 3948 | 32.4 | 107 | 0.9 | 3151 | 25.9 | 268 | 2.2 | 775 | 6.4 | 65 | 0.5 | 12186 | 100.0 |
| TOTAL* | 10962 | 16.8 | 17644 | 27.0 | 19773 | 30.3 | 1392 | 2.1 | 10561 | 16.2 | 3281 | 5.0 | 1526 | 2.3 | 125 | 0.2 | 65264 | 100.0 |

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

* Total includes births at home assisted by independent midwives.

TABLE 44: PERINEAL STATUS AMONG VAGINAL BIRTHS BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2016*

| Maternity service level-hospital | Perineal status | | | | | | | | | | | | | | TOTAL | | | |
|-------------------------------------|-----------------|-------------|---------------------------|-------------|-----------------|-------------|---------------------------|------------|-------------|-------------|---------------------------------|------------|------------|------------|-----------|------------|--------------|--------------|
| | Intact | | 1st degree tear/ graze | | 2nd degree tear | | 3rd or 4th degree tear | | Episiotomy | | Combined tear and episiotomy | | Other | | | | Not stated | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Level 6 | | | | | | | | | | | | | | | | | | |
| Royal Prince Alfred | 430 | 12.5 | 677 | 19.8 | 1359 | 39.7 | 145 | 4.2 | 582 | 17.0 | 159 | 4.6 | 75 | 2.2 | 0 | 0.0 | 3427 | 100.0 |
| Royal North Shore | 156 | 7.9 | 447 | 22.7 | 753 | 38.3 | 54 | 2.7 | 328 | 16.7 | 215 | 10.9 | 13 | 0.7 | 0 | 0.0 | 1966 | 100.0 |
| Royal Hospital for Women | 320 | 11.2 | 809 | 28.4 | 971 | 34.1 | 84 | 2.9 | 402 | 14.1 | 234 | 8.2 | 29 | 1.0 | 0 | 0.0 | 2849 | 100.0 |
| Liverpool | 506 | 20.6 | 572 | 23.3 | 739 | 30.1 | 101 | 4.1 | 383 | 15.6 | 61 | 2.5 | 91 | 3.7 | 3 | 0.1 | 2456 | 100.0 |
| Nepean | 377 | 14.7 | 905 | 35.3 | 711 | 27.7 | 55 | 2.1 | 284 | 11.1 | 206 | 8.0 | 26 | 1.0 | 0 | 0.0 | 2564 | 100.0 |
| Westmead | 460 | 11.9 | 902 | 23.3 | 1092 | 28.2 | 46 | 1.2 | 920 | 23.7 | 424 | 10.9 | 28 | 0.7 | 3 | 0.1 | 3875 | 100.0 |
| John Hunter | 446 | 16.4 | 938 | 34.6 | 795 | 29.3 | 76 | 2.8 | 263 | 9.7 | 169 | 6.2 | 20 | 0.7 | 5 | 0.2 | 2712 | 100.0 |
| TOTAL | 2695 | 13.6 | 5250 | 26.4 | 6420 | 32.3 | 561 | 2.8 | 3162 | 15.9 | 1468 | 7.4 | 282 | 1.4 | 11 | 0.1 | 19849 | 100.0 |
| Level 5 | | | | | | | | | | | | | | | | | | |
| Gosford | 281 | 14.3 | 694 | 35.2 | 630 | 32.0 | 46 | 2.3 | 178 | 9.0 | 115 | 5.8 | 27 | 1.4 | 0 | 0.0 | 1971 | 100.0 |
| St. George | 252 | 14.0 | 390 | 21.6 | 611 | 33.9 | 49 | 2.7 | 330 | 18.3 | 160 | 8.9 | 12 | 0.7 | 0 | 0.0 | 1804 | 100.0 |
| Blacktown | 258 | 11.3 | 657 | 28.7 | 688 | 30.1 | 46 | 2.0 | 412 | 18.0 | 216 | 9.4 | 9 | 0.4 | 0 | 0.0 | 2286 | 100.0 |
| Coffs Harbour | 157 | 22.5 | 244 | 34.9 | 173 | 24.7 | 12 | 1.7 | 81 | 11.6 | 23 | 3.3 | 9 | 1.3 | 0 | 0.0 | 699 | 100.0 |
| Lismore Base | 132 | 15.2 | 332 | 38.2 | 240 | 27.6 | 9 | 1.0 | 106 | 12.2 | 33 | 3.8 | 14 | 1.6 | 2 | 0.2 | 868 | 100.0 |
| Tweed Heads | 184 | 19.8 | 310 | 33.3 | 297 | 31.9 | 21 | 2.3 | 77 | 8.3 | 29 | 3.1 | 12 | 1.3 | 1 | 0.1 | 931 | 100.0 |
| Port Macquarie Base | 107 | 21.1 | 167 | 33.0 | 133 | 26.3 | 9 | 1.8 | 61 | 12.1 | 20 | 4.0 | 9 | 1.8 | 0 | 0.0 | 506 | 100.0 |
| Dubbo Base | 186 | 21.2 | 338 | 38.5 | 189 | 21.6 | 14 | 1.6 | 113 | 12.9 | 31 | 3.5 | 6 | 0.7 | 0 | 0.0 | 877 | 100.0 |
| Wollongong | 353 | 20.0 | 572 | 32.5 | 502 | 28.5 | 32 | 1.8 | 210 | 11.9 | 84 | 4.8 | 9 | 0.5 | 0 | 0.0 | 1762 | 100.0 |
| Wagga Wagga Base | 126 | 18.8 | 267 | 39.8 | 153 | 22.8 | 9 | 1.3 | 81 | 12.1 | 31 | 4.6 | 4 | 0.6 | 0 | 0.0 | 671 | 100.0 |
| TOTAL | 2036 | 16.5 | 3971 | 32.1 | 3616 | 29.2 | 247 | 2.0 | 1649 | 13.3 | 742 | 6.0 | 111 | 0.9 | 3 | 0.0 | 12375 | 100.0 |
| Level 4 | | | | | | | | | | | | | | | | | | |
| Canterbury | 212 | 17.1 | 255 | 20.5 | 360 | 29.0 | 40 | 3.2 | 275 | 22.1 | 56 | 4.5 | 45 | 3.6 | 0 | 0.0 | 1243 | 100.0 |
| Hornsby | 106 | 11.6 | 250 | 27.4 | 354 | 38.7 | 36 | 3.9 | 90 | 9.8 | 73 | 8.0 | 5 | 0.5 | 0 | 0.0 | 914 | 100.0 |
| Manly | 63 | 9.2 | 167 | 24.5 | 263 | 38.5 | 21 | 3.1 | 107 | 15.7 | 60 | 8.8 | 2 | 0.3 | 0 | 0.0 | 683 | 100.0 |
| Mona Vale | 91 | 16.9 | 161 | 29.8 | 180 | 33.3 | 28 | 5.2 | 56 | 10.4 | 22 | 4.1 | 2 | 0.4 | 0 | 0.0 | 540 | 100.0 |
| Sutherland | 150 | 14.0 | 292 | 27.3 | 323 | 30.2 | 14 | 1.3 | 205 | 19.2 | 77 | 7.2 | 9 | 0.8 | 0 | 0.0 | 1070 | 100.0 |

(Continued on next page)

TABLE 44: (Continued)

| Maternity service level-hospital | Perineal status | | | | | | | | | | | | | | | | | |
|----------------------------------|-----------------|-------------|------------------------|-------------|-----------------|-------------|------------------------|------------|--------------|-------------|------------------------------|------------|-------------|------------|------------|------------|--------------|--------------|
| | Intact | | 1st degree tear/ graze | | 2nd degree tear | | 3rd or 4th degree tear | | Episiotomy | | Combined tear and episiotomy | | Other | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Campbelltown | 573 | 22.5 | 627 | 24.6 | 789 | 30.9 | 62 | 2.4 | 367 | 14.4 | 25 | 1.0 | 99 | 3.9 | 9 | 0.4 | 2551 | 100.0 |
| Bankstown-Lidcombe | 342 | 22.2 | 332 | 21.5 | 420 | 27.2 | 26 | 1.7 | 307 | 19.9 | 51 | 3.3 | 57 | 3.7 | 7 | 0.5 | 1542 | 100.0 |
| Grafton Base | 87 | 28.5 | 126 | 41.3 | 66 | 21.6 | 4 | 1.3 | 13 | 4.3 | 6 | 2.0 | 3 | 1.0 | 0 | 0.0 | 305 | 100.0 |
| Armidale | 52 | 19.0 | 113 | 41.4 | 61 | 22.3 | 3 | 1.1 | 29 | 10.6 | 13 | 4.8 | 2 | 0.7 | 0 | 0.0 | 273 | 100.0 |
| Tamworth Base | 145 | 21.0 | 245 | 35.4 | 166 | 24.0 | 8 | 1.2 | 85 | 12.3 | 34 | 4.9 | 7 | 1.0 | 2 | 0.3 | 692 | 100.0 |
| Manning Base | 88 | 17.6 | 205 | 40.9 | 135 | 26.9 | 7 | 1.4 | 34 | 6.8 | 20 | 4.0 | 12 | 2.4 | 0 | 0.0 | 501 | 100.0 |
| Orange Base | 114 | 16.0 | 266 | 37.4 | 177 | 24.9 | 14 | 2.0 | 75 | 10.5 | 58 | 8.2 | 5 | 0.7 | 2 | 0.3 | 711 | 100.0 |
| Maitland | 230 | 21.3 | 399 | 37.0 | 301 | 27.9 | 33 | 3.1 | 74 | 6.9 | 32 | 3.0 | 9 | 0.8 | 1 | 0.1 | 1079 | 100.0 |
| Griffith Base | 88 | 24.9 | 131 | 37.0 | 82 | 23.2 | 3 | 0.8 | 36 | 10.2 | 13 | 3.7 | 1 | 0.3 | 0 | 0.0 | 354 | 100.0 |
| TOTAL | 2341 | 18.8 | 3569 | 28.6 | 3677 | 29.5 | 299 | 2.4 | 1753 | 14.1 | 540 | 4.3 | 258 | 2.1 | 21 | 0.2 | 12458 | 100.0 |
| Level 3 | | | | | | | | | | | | | | | | | | |
| Auburn | 173 | 16.6 | 312 | 30.0 | 298 | 28.6 | 14 | 1.3 | 148 | 14.2 | 81 | 7.8 | 5 | 0.5 | 10 | 1.0 | 1041 | 100.0 |
| Blue Mountains | 16 | 10.0 | 64 | 40.0 | 62 | 38.8 | 4 | 2.5 | 7 | 4.4 | 6 | 3.8 | 0 | 0.0 | 1 | 0.6 | 160 | 100.0 |
| Fairfield | 385 | 27.9 | 293 | 21.3 | 389 | 28.2 | 50 | 3.6 | 203 | 14.7 | 24 | 1.7 | 34 | 2.5 | 0 | 0.0 | 1378 | 100.0 |
| Hawkesbury | 80 | 19.0 | 145 | 34.5 | 109 | 26.0 | 14 | 3.3 | 45 | 10.7 | 19 | 4.5 | 3 | 0.7 | 5 | 1.2 | 420 | 100.0 |
| Kempsey | 55 | 25.5 | 96 | 44.4 | 45 | 20.8 | 5 | 2.3 | 6 | 2.8 | 6 | 2.8 | 3 | 1.4 | 0 | 0.0 | 216 | 100.0 |
| Inverell | 48 | 28.7 | 58 | 34.7 | 21 | 12.6 | 0 | 0.0 | 37 | 22.2 | 2 | 1.2 | 1 | 0.6 | 0 | 0.0 | 167 | 100.0 |
| Mudgee | 41 | 21.6 | 90 | 47.4 | 37 | 19.5 | 2 | 1.1 | 17 | 8.9 | 2 | 1.1 | 0 | 0.0 | 1 | 0.5 | 190 | 100.0 |
| Bathurst Base | 54 | 14.6 | 157 | 42.5 | 99 | 26.8 | 13 | 3.5 | 27 | 7.3 | 14 | 3.8 | 5 | 1.4 | 0 | 0.0 | 369 | 100.0 |
| Lithgow | 24 | 16.7 | 70 | 48.6 | 30 | 20.8 | 0 | 0.0 | 13 | 9.0 | 6 | 4.2 | 1 | 0.7 | 0 | 0.0 | 144 | 100.0 |
| Bega | 44 | 24.0 | 62 | 33.9 | 48 | 26.2 | 3 | 1.6 | 19 | 10.4 | 2 | 1.1 | 5 | 2.7 | 0 | 0.0 | 183 | 100.0 |
| Goulburn Base | 50 | 25.6 | 37 | 19.0 | 62 | 31.8 | 10 | 5.1 | 32 | 16.4 | 4 | 2.1 | 0 | 0.0 | 0 | 0.0 | 195 | 100.0 |
| Moruya | 61 | 28.0 | 84 | 38.5 | 45 | 20.6 | 8 | 3.7 | 16 | 7.3 | 2 | 0.9 | 2 | 0.9 | 0 | 0.0 | 218 | 100.0 |
| Queanbeyan | 53 | 15.5 | 133 | 38.9 | 86 | 25.1 | 12 | 3.5 | 35 | 10.2 | 20 | 5.8 | 3 | 0.9 | 0 | 0.0 | 342 | 100.0 |
| Bowral | 73 | 23.8 | 84 | 27.4 | 76 | 24.8 | 3 | 1.0 | 54 | 17.6 | 2 | 0.7 | 15 | 4.9 | 0 | 0.0 | 307 | 100.0 |
| Shoalhaven | 190 | 31.3 | 186 | 30.6 | 139 | 22.9 | 13 | 2.1 | 63 | 10.4 | 11 | 1.8 | 3 | 0.5 | 2 | 0.3 | 607 | 100.0 |
| Broken Hill Base | 55 | 33.7 | 69 | 42.3 | 32 | 19.6 | 2 | 1.2 | 3 | 1.8 | 2 | 1.2 | 0 | 0.0 | 0 | 0.0 | 163 | 100.0 |
| Other hospitals | 309 | 25.9 | 441 | 37.0 | 259 | 21.7 | 17 | 1.4 | 97 | 8.1 | 52 | 4.4 | 14 | 1.2 | 3 | 0.3 | 1192 | 100.0 |
| TOTAL | 1711 | 23.5 | 2381 | 32.7 | 1837 | 25.2 | 170 | 2.3 | 822 | 11.3 | 255 | 3.5 | 94 | 1.3 | 22 | 0.3 | 7292 | 100.0 |
| Level 2 | | | | | | | | | | | | | | | | | | |
| TOTAL | 283 | 28.2 | 428 | 42.6 | 248 | 24.7 | 7 | 0.7 | 23 | 2.3 | 8 | 0.8 | 5 | 0.5 | 2 | 0.2 | 1004 | 100.0 |
| Private | | | | | | | | | | | | | | | | | | |
| Mater, North Sydney | 164 | 14.4 | 250 | 21.9 | 383 | 33.6 | 7 | 0.6 | 321 | 28.2 | 10 | 0.9 | 5 | 0.4 | 0 | 0.0 | 1140 | 100.0 |
| North Shore Private | 147 | 12.1 | 244 | 20.1 | 403 | 33.1 | 19 | 1.6 | 321 | 26.4 | 10 | 0.8 | 41 | 3.4 | 31 | 2.5 | 1216 | 100.0 |
| Sydney Adventist | 221 | 17.9 | 267 | 21.7 | 382 | 31.0 | 2 | 0.2 | 321 | 26.1 | 0 | 0.0 | 39 | 3.2 | 0 | 0.0 | 1232 | 100.0 |
| North Gosford Private | 74 | 20.5 | 72 | 19.9 | 106 | 29.4 | 0 | 0.0 | 72 | 19.9 | 14 | 3.9 | 22 | 6.1 | 1 | 0.3 | 361 | 100.0 |
| Hurstville Community | 87 | 17.7 | 120 | 24.4 | 156 | 31.7 | 3 | 0.6 | 113 | 23.0 | 5 | 1.0 | 5 | 1.0 | 3 | 0.6 | 492 | 100.0 |
| Kareena Private | 52 | 12.8 | 90 | 22.2 | 153 | 37.8 | 2 | 0.5 | 91 | 22.5 | 2 | 0.5 | 8 | 2.0 | 7 | 1.7 | 405 | 100.0 |
| St. George Private | 173 | 20.1 | 143 | 16.6 | 374 | 43.4 | 11 | 1.3 | 131 | 15.2 | 3 | 0.3 | 22 | 2.6 | 5 | 0.6 | 862 | 100.0 |
| Prince of Wales Private | 147 | 14.3 | 129 | 12.5 | 302 | 29.4 | 5 | 0.5 | 267 | 26.0 | 63 | 6.1 | 115 | 11.2 | 0 | 0.0 | 1028 | 100.0 |
| Norwest Private | 222 | 17.1 | 175 | 13.5 | 417 | 32.2 | 4 | 0.3 | 280 | 21.6 | 46 | 3.5 | 153 | 11.8 | 0 | 0.0 | 1297 | 100.0 |
| Sydney Southwest Private | 106 | 15.7 | 78 | 11.6 | 173 | 25.7 | 6 | 0.9 | 215 | 31.9 | 28 | 4.2 | 68 | 10.1 | 0 | 0.0 | 674 | 100.0 |
| Nepean Private | 44 | 10.0 | 43 | 9.7 | 128 | 29.0 | 6 | 1.4 | 155 | 35.1 | 22 | 5.0 | 44 | 10.0 | 0 | 0.0 | 442 | 100.0 |
| Westmead Private | 154 | 12.5 | 175 | 14.2 | 307 | 25.0 | 6 | 0.5 | 521 | 42.4 | 5 | 0.4 | 47 | 3.8 | 15 | 1.2 | 1230 | 100.0 |
| Wollongong Private | 56 | 11.2 | 76 | 15.1 | 159 | 31.7 | 3 | 0.6 | 192 | 38.2 | 0 | 0.0 | 16 | 3.2 | 0 | 0.0 | 502 | 100.0 |
| Newcastle Private | 167 | 14.7 | 123 | 10.8 | 456 | 40.1 | 33 | 2.9 | 116 | 10.2 | 60 | 5.3 | 182 | 16.0 | 0 | 0.0 | 1137 | 100.0 |
| Calvary, Wagga Wagga | 34 | 20.2 | 39 | 23.2 | 49 | 29.2 | 0 | 0.0 | 35 | 20.8 | 0 | 0.0 | 8 | 4.8 | 3 | 1.8 | 168 | 100.0 |
| TOTAL | 1848 | 15.2 | 2024 | 16.6 | 3948 | 32.4 | 107 | 0.9 | 3151 | 25.9 | 268 | 2.2 | 775 | 6.4 | 65 | 0.5 | 12186 | 100.0 |
| TOTAL NSW* | 10962 | 16.8 | 17644 | 27.0 | 19773 | 30.3 | 1392 | 2.1 | 10561 | 16.2 | 3281 | 5.0 | 1526 | 2.3 | 125 | 0.2 | 65264 | 100.0 |

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.
 # Hospitals with more than 200 births in 2016 are identified individually. Maternity service levels are described on page 80 in Appendix 2: Explanatory notes.
 * Total NSW includes births at home assisted by independent midwives and births at level 1 hospitals.

Birth weight

Table 45 shows the birth weight of babies for local health districts, and Table 46 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2016.

TABLE 45: BIRTHS BY BIRTH WEIGHT AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2016

| 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 | 63 | 0.9 | 55 | 0.8 | 398 | 5.8 | 6376 | 92.5 | 4 | 0.1 | 6896 | 100.0 |
| South Western Sydney | 108 | 1.0 | 59 | 0.5 | 620 | 5.5 | 10546 | 92.9 | 21 | 0.2 | 11354 | 100.0 |
| South Eastern Sydney | 92 | 1.1 | 57 | 0.7 | 497 | 6.1 | 7493 | 92.1 | 1 | 0.0 | 8140 | 100.0 |
| Illawarra Shoalhaven | 7 | 0.2 | 11 | 0.3 | 207 | 6.1 | 3192 | 93.4 | 0 | 0.0 | 3417 | 100.0 |
| Western Sydney | 123 | 1.2 | 85 | 0.8 | 586 | 5.7 | 9496 | 92.3 | 1 | 0.0 | 10291 | 100.0 |
| Nepean Blue Mountains | 61 | 1.1 | 61 | 1.1 | 342 | 6.4 | 4844 | 91.2 | 3 | 0.1 | 5311 | 100.0 |
| Northern Sydney | 65 | 1.1 | 58 | 1.0 | 283 | 4.6 | 5688 | 93.3 | 0 | 0.0 | 6094 | 100.0 |
| Central Coast | 21 | 0.7 | 3 | 0.1 | 140 | 4.8 | 2754 | 94.3 | 3 | 0.1 | 2921 | 100.0 |
| Hunter New England | 90 | 1.0 | 92 | 1.0 | 590 | 6.6 | 8177 | 91.4 | 1 | 0.0 | 8950 | 100.0 |
| Northern NSW | 9 | 0.3 | 4 | 0.1 | 128 | 4.2 | 2916 | 95.4 | 1 | 0.0 | 3058 | 100.0 |
| Mid North Coast | 11 | 0.5 | 3 | 0.1 | 105 | 4.8 | 2081 | 94.4 | 4 | 0.2 | 2204 | 100.0 |
| Southern NSW | 4 | 0.3 | 3 | 0.2 | 27 | 1.9 | 1410 | 97.6 | 0 | 0.0 | 1444 | 100.0 |
| Murrumbidgee | 12 | 0.6 | 10 | 0.5 | 108 | 5.3 | 1919 | 93.7 | 0 | 0.0 | 2049 | 100.0 |
| Western NSW | 24 | 0.7 | 9 | 0.3 | 181 | 5.2 | 3293 | 93.8 | 2 | 0.1 | 3509 | 100.0 |
| Far West | 1 | 0.4 | 0 | 0.0 | 7 | 3.0 | 222 | 96.1 | 1 | 0.4 | 231 | 100.0 |
| Private Hospitals | 46 | 0.2 | 24 | 0.1 | 903 | 4.0 | 21774 | 95.6 | 28 | 0.1 | 22775 | 100.0 |
| TOTAL* | 737 | 0.7 | 534 | 0.5 | 5122 | 5.2 | 92263 | 93.5 | 71 | 0.1 | 98727 | 100.0 |

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

* Total includes births at home assisted by independent midwives.

TABLE 46: BIRTHS BY BIRTH WEIGHT, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2016*

| 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 | 60 | 1.2 | 55 | 1.1 | 321 | 6.3 | 4686 | 91.4 | 3 | 0.1 | 5125 | 100.0 |
| Royal North Shore | 53 | 1.8 | 56 | 1.9 | 201 | 6.7 | 2699 | 89.7 | 0 | 0.0 | 3009 | 100.0 |
| Royal Hospital for Women | 77 | 1.8 | 55 | 1.3 | 278 | 6.7 | 3759 | 90.1 | 1 | 0.0 | 4170 | 100.0 |
| Liverpool | 77 | 2.2 | 54 | 1.5 | 279 | 7.9 | 3107 | 88.3 | 3 | 0.1 | 3520 | 100.0 |
| Nepean | 59 | 1.4 | 61 | 1.5 | 317 | 7.6 | 3749 | 89.6 | 0 | 0.0 | 4186 | 100.0 |
| Westmead | 91 | 1.6 | 80 | 1.4 | 369 | 6.5 | 5137 | 90.5 | 0 | 0.0 | 5677 | 100.0 |
| John Hunter | 80 | 2.0 | 81 | 2.0 | 375 | 9.3 | 3515 | 86.8 | 0 | 0.0 | 4051 | 100.0 |
| TOTAL | 497 | 1.7 | 442 | 1.5 | 2140 | 7.2 | 26652 | 89.6 | 7 | 0.0 | 29738 | 100.0 |
| Level 5 | | | | | | | | | | | | |
| Gosford | 21 | 0.8 | 3 | 0.1 | 140 | 5.0 | 2619 | 94.0 | 2 | 0.1 | 2785 | 100.0 |
| St. George | 10 | 0.4 | 1 | 0.0 | 188 | 7.3 | 2384 | 92.3 | 0 | 0.0 | 2583 | 100.0 |
| Blacktown | 26 | 0.8 | 4 | 0.1 | 172 | 5.3 | 3054 | 93.8 | 0 | 0.0 | 3256 | 100.0 |
| Coffs Harbour | 3 | 0.3 | 2 | 0.2 | 57 | 5.1 | 1045 | 94.3 | 1 | 0.1 | 1108 | 100.0 |
| Lismore Base | 3 | 0.3 | 1 | 0.1 | 51 | 4.4 | 1092 | 95.1 | 1 | 0.1 | 1148 | 100.0 |
| Tweed Heads | 4 | 0.3 | 2 | 0.2 | 47 | 3.8 | 1184 | 95.7 | 0 | 0.0 | 1237 | 100.0 |
| Port Macquarie Base | 8 | 1.0 | 1 | 0.1 | 42 | 5.4 | 719 | 93.0 | 3 | 0.4 | 773 | 100.0 |
| Dubbo Base | 8 | 0.6 | 4 | 0.3 | 75 | 5.9 | 1182 | 93.1 | 1 | 0.1 | 1270 | 100.0 |
| Wollongong | 6 | 0.2 | 11 | 0.4 | 181 | 7.1 | 2334 | 92.2 | 0 | 0.0 | 2532 | 100.0 |
| Wagga Wagga Base | 8 | 0.8 | 6 | 0.6 | 64 | 6.2 | 950 | 92.4 | 0 | 0.0 | 1028 | 100.0 |
| TOTAL | 97 | 0.5 | 35 | 0.2 | 1017 | 5.7 | 16563 | 93.5 | 8 | 0.0 | 17720 | 100.0 |
| Level 4 | | | | | | | | | | | | |
| Canterbury | 3 | 0.2 | 0 | 0.0 | 77 | 4.3 | 1690 | 95.4 | 1 | 0.1 | 1771 | 100.0 |
| Hornsby | 4 | 0.3 | 2 | 0.2 | 31 | 2.5 | 1188 | 97.0 | 0 | 0.0 | 1225 | 100.0 |
| Manly | 2 | 0.2 | 0 | 0.0 | 34 | 3.4 | 956 | 96.4 | 0 | 0.0 | 992 | 100.0 |
| Mona Vale | 6 | 0.8 | 0 | 0.0 | 17 | 2.2 | 742 | 97.0 | 0 | 0.0 | 765 | 100.0 |
| Sutherland | 5 | 0.4 | 1 | 0.1 | 31 | 2.2 | 1350 | 97.3 | 0 | 0.0 | 1387 | 100.0 |
| Campbelltown | 15 | 0.4 | 3 | 0.1 | 179 | 5.3 | 3181 | 93.9 | 11 | 0.3 | 3389 | 100.0 |
| Bankstown-Lidcombe | 10 | 0.5 | 1 | 0.0 | 92 | 4.2 | 2091 | 95.3 | 1 | 0.0 | 2195 | 100.0 |
| Grafton Base | 1 | 0.2 | 1 | 0.2 | 24 | 5.6 | 400 | 93.9 | 0 | 0.0 | 426 | 100.0 |
| Armidale | 1 | 0.2 | 1 | 0.2 | 32 | 7.8 | 377 | 91.7 | 0 | 0.0 | 411 | 100.0 |

(Continued on next page)

TABLE 46: (Continued)

| Maternity service level–hospital | Birth weight | | | | | | | | | | | |
|----------------------------------|-----------------|------------|-------------|------------|-------------|------------|--------------|-------------|------------|------------|--------------|--------------|
| | Less than 1,000 | | 1,000–1,499 | | 1,500–2,499 | | 2,500+ | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Tamworth Base | 5 | 0.5 | 5 | 0.5 | 53 | 5.3 | 946 | 93.8 | 0 | 0.0 | 1009 | 100.0 |
| Manning Base | 1 | 0.2 | 0 | 0.0 | 32 | 4.8 | 629 | 95.0 | 0 | 0.0 | 662 | 100.0 |
| Orange Base | 14 | 1.3 | 3 | 0.3 | 67 | 6.2 | 999 | 92.2 | 1 | 0.1 | 1084 | 100.0 |
| Maitland | 2 | 0.1 | 2 | 0.1 | 69 | 4.7 | 1395 | 95.0 | 0 | 0.0 | 1468 | 100.0 |
| Griffith Base | 2 | 0.4 | 4 | 0.7 | 34 | 6.3 | 498 | 92.6 | 0 | 0.0 | 538 | 100.0 |
| TOTAL | 71 | 0.4 | 23 | 0.1 | 772 | 4.5 | 16442 | 94.9 | 14 | 0.1 | 17322 | 100.0 |
| Level 3 | | | | | | | | | | | | |
| Auburn | 6 | 0.4 | 1 | 0.1 | 45 | 3.3 | 1305 | 96.1 | 1 | 0.1 | 1358 | 100.0 |
| Blue Mountains | 0 | 0.0 | 0 | 0.0 | 2 | 0.8 | 232 | 98.3 | 2 | 0.8 | 236 | 100.0 |
| Fairfield | 6 | 0.3 | 1 | 0.1 | 61 | 3.4 | 1731 | 96.0 | 5 | 0.3 | 1804 | 100.0 |
| Hawkesbury | 2 | 0.3 | 0 | 0.0 | 16 | 2.4 | 660 | 97.3 | 0 | 0.0 | 678 | 100.0 |
| Kempsey | 0 | 0.0 | 0 | 0.0 | 6 | 2.2 | 268 | 97.8 | 0 | 0.0 | 274 | 100.0 |
| Inverell | 1 | 0.4 | 0 | 0.0 | 10 | 4.0 | 239 | 95.6 | 0 | 0.0 | 250 | 100.0 |
| Mudgee | 0 | 0.0 | 1 | 0.4 | 5 | 2.0 | 241 | 97.6 | 0 | 0.0 | 247 | 100.0 |
| Bathurst Base | 2 | 0.4 | 0 | 0.0 | 24 | 4.8 | 472 | 94.8 | 0 | 0.0 | 498 | 100.0 |
| Lithgow | 0 | 0.0 | 0 | 0.0 | 7 | 3.3 | 203 | 96.2 | 1 | 0.5 | 211 | 100.0 |
| Bega | 0 | 0.0 | 0 | 0.0 | 6 | 2.3 | 251 | 97.7 | 0 | 0.0 | 257 | 100.0 |
| Goulburn Base | 0 | 0.0 | 2 | 0.7 | 6 | 2.1 | 279 | 97.2 | 0 | 0.0 | 287 | 100.0 |
| Moruya | 3 | 1.0 | 1 | 0.3 | 7 | 2.3 | 291 | 96.4 | 0 | 0.0 | 302 | 100.0 |
| Queanbeyan | 0 | 0.0 | 0 | 0.0 | 6 | 1.3 | 444 | 98.7 | 0 | 0.0 | 450 | 100.0 |
| Bowral | 0 | 0.0 | 0 | 0.0 | 9 | 2.0 | 436 | 97.8 | 1 | 0.2 | 446 | 100.0 |
| Shoalhaven | 1 | 0.1 | 0 | 0.0 | 26 | 3.0 | 841 | 96.9 | 0 | 0.0 | 868 | 100.0 |
| Broken Hill Base | 1 | 0.4 | 0 | 0.0 | 7 | 3.0 | 222 | 96.1 | 1 | 0.4 | 231 | 100.0 |
| Other hospitals | 2 | 0.1 | 4 | 0.3 | 34 | 2.1 | 1556 | 97.5 | 0 | 0.0 | 1596 | 100.0 |
| TOTAL | 24 | 0.2 | 10 | 0.1 | 277 | 2.8 | 9671 | 96.8 | 11 | 0.1 | 9993 | 100.0 |
| Level 2 | | | | | | | | | | | | |
| TOTAL | 2 | 0.2 | 0 | 0.0 | 13 | 1.2 | 1060 | 98.4 | 2 | 0.2 | 1077 | 100.0 |
| Private | | | | | | | | | | | | |
| Mater, North Sydney | 2 | 0.1 | 0 | 0.0 | 105 | 4.4 | 2302 | 95.6 | 0 | 0.0 | 2409 | 100.0 |
| North Shore Private | 6 | 0.2 | 9 | 0.4 | 115 | 4.5 | 2428 | 94.9 | 1 | 0.0 | 2559 | 100.0 |
| Sydney Adventist | 6 | 0.3 | 4 | 0.2 | 70 | 3.4 | 1987 | 96.1 | 0 | 0.0 | 2067 | 100.0 |
| North Gosford Private | 6 | 0.8 | 0 | 0.0 | 26 | 3.6 | 692 | 95.3 | 2 | 0.3 | 726 | 100.0 |
| Hurstville Community | 0 | 0.0 | 1 | 0.1 | 25 | 3.0 | 801 | 96.4 | 4 | 0.5 | 831 | 100.0 |
| Kareena Private | 1 | 0.1 | 0 | 0.0 | 20 | 2.5 | 774 | 97.4 | 0 | 0.0 | 795 | 100.0 |
| St. George Private | 1 | 0.1 | 1 | 0.1 | 78 | 4.9 | 1527 | 95.0 | 0 | 0.0 | 1607 | 100.0 |
| Prince of Wales Private | 2 | 0.1 | 1 | 0.0 | 74 | 3.3 | 2138 | 96.3 | 5 | 0.2 | 2220 | 100.0 |
| Norwest Private | 5 | 0.2 | 0 | 0.0 | 94 | 4.5 | 1988 | 95.3 | 0 | 0.0 | 2087 | 100.0 |
| Sydney Southwest Private | 2 | 0.2 | 0 | 0.0 | 43 | 4.1 | 1010 | 95.7 | 0 | 0.0 | 1055 | 100.0 |
| Nepean Private | 1 | 0.1 | 1 | 0.1 | 33 | 4.1 | 771 | 95.7 | 0 | 0.0 | 806 | 100.0 |
| Westmead Private | 10 | 0.4 | 4 | 0.2 | 95 | 4.2 | 2153 | 95.1 | 1 | 0.0 | 2263 | 100.0 |
| Wollongong Private | 1 | 0.1 | 2 | 0.2 | 26 | 2.9 | 880 | 96.8 | 0 | 0.0 | 909 | 100.0 |
| Newcastle Private | 2 | 0.1 | 1 | 0.0 | 79 | 3.9 | 1923 | 95.2 | 15 | 0.7 | 2020 | 100.0 |
| Calvary, Wagga Wagga | 1 | 0.3 | 0 | 0.0 | 20 | 5.0 | 378 | 94.7 | 0 | 0.0 | 399 | 100.0 |
| Other hospitals | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 22 | 100.0 | 0 | 0.0 | 22 | 100.0 |
| TOTAL | 46 | 0.2 | 24 | 0.1 | 903 | 4.0 | 21774 | 95.6 | 28 | 0.1 | 22775 | 100.0 |
| TOTAL NSW* | 737 | 0.7 | 534 | 0.5 | 5122 | 5.2 | 92263 | 93.5 | 71 | 0.1 | 98727 | 100.0 |

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

Hospitals with more than 200 births in 2016 are identified individually. Maternity service levels are described on page 80 in Appendix 2: Explanatory notes.

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

Gestational age

Table 47 shows the gestational age of babies for local health districts, and Table 48 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2016.

TABLE 47: BIRTHS BY GESTATIONAL AGE AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2016

| Local Health District | Gestational age | | | | | | | | | | | |
|-----------------------|-----------------|------------|------------|------------|-------------|------------|--------------|-------------|------------|------------|--------------|--------------|
| | <32 | | 32–33 | | 34–36 | | 37+ | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 125 | 1.8 | 55 | 0.8 | 401 | 5.8 | 6310 | 91.5 | 5 | 0.1 | 6896 | 100.0 |
| South Western Sydney | 171 | 1.5 | 104 | 0.9 | 633 | 5.6 | 10290 | 90.6 | 156 | 1.4 | 11354 | 100.0 |
| South Eastern Sydney | 162 | 2.0 | 69 | 0.8 | 355 | 4.4 | 7550 | 92.8 | 4 | 0.0 | 8140 | 100.0 |
| Illawarra Shoalhaven | 15 | 0.4 | 37 | 1.1 | 219 | 6.4 | 3146 | 92.1 | 0 | 0.0 | 3417 | 100.0 |
| Western Sydney | 198 | 1.9 | 96 | 0.9 | 408 | 4.0 | 9587 | 93.2 | 2 | 0.0 | 10291 | 100.0 |
| Nepean Blue Mountains | 131 | 2.5 | 88 | 1.7 | 309 | 5.8 | 4782 | 90.0 | 1 | 0.0 | 5311 | 100.0 |
| Northern Sydney | 124 | 2.0 | 56 | 0.9 | 221 | 3.6 | 5691 | 93.4 | 2 | 0.0 | 6094 | 100.0 |
| Central Coast | 22 | 0.8 | 21 | 0.7 | 138 | 4.7 | 2739 | 93.8 | 1 | 0.0 | 2921 | 100.0 |
| Hunter New England | 203 | 2.3 | 107 | 1.2 | 490 | 5.5 | 8148 | 91.0 | 2 | 0.0 | 8950 | 100.0 |
| Northern NSW | 15 | 0.5 | 15 | 0.5 | 116 | 3.8 | 2909 | 95.1 | 3 | 0.1 | 3058 | 100.0 |
| Mid North Coast | 15 | 0.7 | 5 | 0.2 | 131 | 5.9 | 2050 | 93.0 | 3 | 0.1 | 2204 | 100.0 |
| Southern NSW | 10 | 0.7 | 4 | 0.3 | 26 | 1.8 | 1404 | 97.2 | 0 | 0.0 | 1444 | 100.0 |
| Murrumbidgee | 24 | 1.2 | 11 | 0.5 | 102 | 5.0 | 1912 | 93.3 | 0 | 0.0 | 2049 | 100.0 |
| Western NSW | 33 | 0.9 | 18 | 0.5 | 209 | 6.0 | 3249 | 92.6 | 0 | 0.0 | 3509 | 100.0 |
| Far West | 1 | 0.4 | 0 | 0.0 | 5 | 2.2 | 224 | 97.0 | 1 | 0.4 | 231 | 100.0 |
| Private Hospitals | 66 | 0.3 | 77 | 0.3 | 1339 | 5.9 | 21262 | 93.4 | 31 | 0.1 | 22775 | 100.0 |
| TOTAL* | 1315 | 1.3 | 763 | 0.8 | 5102 | 5.2 | 91335 | 92.5 | 212 | 0.2 | 98727 | 100.0 |

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

* Total includes births at home assisted by independent midwives.

TABLE 48: BIRTHS BY GESTATIONAL AGE, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2016*

| 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 | 122 | 2.4 | 49 | 1.0 | 326 | 6.4 | 4623 | 90.2 | 5 | 0.1 | 5125 | 100.0 |
| Royal North Shore | 109 | 3.6 | 52 | 1.7 | 123 | 4.1 | 2725 | 90.6 | 0 | 0.0 | 3009 | 100.0 |
| Royal Hospital for Women | 140 | 3.4 | 47 | 1.1 | 199 | 4.8 | 3783 | 90.7 | 1 | 0.0 | 4170 | 100.0 |
| Liverpool | 133 | 3.8 | 83 | 2.4 | 260 | 7.4 | 3020 | 85.8 | 24 | 0.7 | 3520 | 100.0 |
| Nepean | 128 | 3.1 | 84 | 2.0 | 277 | 6.6 | 3696 | 88.3 | 1 | 0.0 | 4186 | 100.0 |
| Westmead | 161 | 2.8 | 77 | 1.4 | 247 | 4.4 | 5192 | 91.5 | 0 | 0.0 | 5677 | 100.0 |
| John Hunter | 181 | 4.5 | 100 | 2.5 | 280 | 6.9 | 3490 | 86.2 | 0 | 0.0 | 4051 | 100.0 |
| TOTAL | 974 | 3.3 | 492 | 1.7 | 1712 | 5.8 | 26529 | 89.2 | 31 | 0.1 | 29738 | 100.0 |
| Level 5 | | | | | | | | | | | | |
| Gosford | 22 | 0.8 | 21 | 0.8 | 138 | 5.0 | 2603 | 93.5 | 1 | 0.0 | 2785 | 100.0 |
| St. George | 14 | 0.5 | 21 | 0.8 | 121 | 4.7 | 2426 | 93.9 | 1 | 0.0 | 2583 | 100.0 |
| Blacktown | 30 | 0.9 | 16 | 0.5 | 131 | 4.0 | 3079 | 94.6 | 0 | 0.0 | 3256 | 100.0 |
| Coffs Harbour | 6 | 0.5 | 2 | 0.2 | 74 | 6.7 | 1025 | 92.5 | 1 | 0.1 | 1108 | 100.0 |
| Lismore Base | 4 | 0.3 | 11 | 1.0 | 48 | 4.2 | 1083 | 94.3 | 2 | 0.2 | 1148 | 100.0 |
| Tweed Heads | 8 | 0.6 | 3 | 0.2 | 49 | 4.0 | 1176 | 95.1 | 1 | 0.1 | 1237 | 100.0 |
| Port Macquarie Base | 9 | 1.2 | 3 | 0.4 | 49 | 6.3 | 711 | 92.0 | 1 | 0.1 | 773 | 100.0 |
| Dubbo Base | 12 | 0.9 | 13 | 1.0 | 101 | 8.0 | 1144 | 90.1 | 0 | 0.0 | 1270 | 100.0 |
| Wollongong | 14 | 0.6 | 34 | 1.3 | 185 | 7.3 | 2299 | 90.8 | 0 | 0.0 | 2532 | 100.0 |
| Wagga Wagga Base | 17 | 1.7 | 9 | 0.9 | 60 | 5.8 | 942 | 91.6 | 0 | 0.0 | 1028 | 100.0 |
| TOTAL | 136 | 0.8 | 133 | 0.8 | 956 | 5.4 | 16488 | 93.0 | 7 | 0.0 | 17720 | 100.0 |
| Level 4 | | | | | | | | | | | | |
| Canterbury | 3 | 0.2 | 6 | 0.3 | 75 | 4.2 | 1687 | 95.3 | 0 | 0.0 | 1771 | 100.0 |
| Hornsby | 5 | 0.4 | 2 | 0.2 | 41 | 3.3 | 1176 | 96.0 | 1 | 0.1 | 1225 | 100.0 |
| Manly | 4 | 0.4 | 1 | 0.1 | 41 | 4.1 | 945 | 95.3 | 1 | 0.1 | 992 | 100.0 |
| Mona Vale | 6 | 0.8 | 1 | 0.1 | 16 | 2.1 | 742 | 97.0 | 0 | 0.0 | 765 | 100.0 |
| Sutherland | 8 | 0.6 | 1 | 0.1 | 35 | 2.5 | 1341 | 96.7 | 2 | 0.1 | 1387 | 100.0 |
| Campbelltown | 17 | 0.5 | 12 | 0.4 | 200 | 5.9 | 3089 | 91.1 | 71 | 2.1 | 3389 | 100.0 |
| Bankstown-Lidcombe | 13 | 0.6 | 3 | 0.1 | 80 | 3.6 | 2054 | 93.6 | 45 | 2.1 | 2195 | 100.0 |
| Grafton Base | 2 | 0.5 | 1 | 0.2 | 16 | 3.8 | 407 | 95.5 | 0 | 0.0 | 426 | 100.0 |
| Armidale | 1 | 0.2 | 1 | 0.2 | 27 | 6.6 | 381 | 92.7 | 1 | 0.2 | 411 | 100.0 |

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TABLE 48: (Continued)

| Maternity service level–hospital | Gestational age | | | | | | | | | | | |
|----------------------------------|-----------------|------------|------------|------------|-------------|------------|--------------|-------------|------------|------------|--------------|--------------|
| | <32 | | 32–33 | | 34–36 | | 37+ | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Tamworth Base | 12 | 1.2 | 1 | 0.1 | 54 | 5.4 | 942 | 93.4 | 0 | 0.0 | 1009 | 100.0 |
| Manning Base | 1 | 0.2 | 1 | 0.2 | 33 | 5.0 | 627 | 94.7 | 0 | 0.0 | 662 | 100.0 |
| Orange Base | 16 | 1.5 | 2 | 0.2 | 75 | 6.9 | 991 | 91.4 | 0 | 0.0 | 1084 | 100.0 |
| Maitland | 3 | 0.2 | 2 | 0.1 | 70 | 4.8 | 1393 | 94.9 | 0 | 0.0 | 1468 | 100.0 |
| Griffith Base | 6 | 1.1 | 2 | 0.4 | 32 | 5.9 | 498 | 92.6 | 0 | 0.0 | 538 | 100.0 |
| TOTAL | 97 | 0.6 | 36 | 0.2 | 795 | 4.6 | 16273 | 93.9 | 121 | 0.7 | 17322 | 100.0 |
| Level 3 | | | | | | | | | | | | |
| Auburn | 7 | 0.5 | 3 | 0.2 | 30 | 2.2 | 1316 | 96.9 | 2 | 0.1 | 1358 | 100.0 |
| Blue Mountains | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 236 | 100.0 | 0 | 0.0 | 236 | 100.0 |
| Fairfield | 8 | 0.4 | 6 | 0.3 | 76 | 4.2 | 1704 | 94.5 | 10 | 0.6 | 1804 | 100.0 |
| Hawkesbury | 3 | 0.4 | 2 | 0.3 | 26 | 3.8 | 647 | 95.4 | 0 | 0.0 | 678 | 100.0 |
| Kempsey | 0 | 0.0 | 0 | 0.0 | 8 | 2.9 | 266 | 97.1 | 0 | 0.0 | 274 | 100.0 |
| Inverell | 1 | 0.4 | 0 | 0.0 | 17 | 6.8 | 232 | 92.8 | 0 | 0.0 | 250 | 100.0 |
| Mudgee | 1 | 0.4 | 0 | 0.0 | 2 | 0.8 | 244 | 98.8 | 0 | 0.0 | 247 | 100.0 |
| Bathurst Base | 2 | 0.4 | 2 | 0.4 | 28 | 5.6 | 466 | 93.6 | 0 | 0.0 | 498 | 100.0 |
| Lithgow | 0 | 0.0 | 2 | 0.9 | 6 | 2.8 | 203 | 96.2 | 0 | 0.0 | 211 | 100.0 |
| Bega | 0 | 0.0 | 1 | 0.4 | 7 | 2.7 | 249 | 96.9 | 0 | 0.0 | 257 | 100.0 |
| Goulburn Base | 3 | 1.0 | 0 | 0.0 | 7 | 2.4 | 277 | 96.5 | 0 | 0.0 | 287 | 100.0 |
| Moruya | 7 | 2.3 | 0 | 0.0 | 9 | 3.0 | 286 | 94.7 | 0 | 0.0 | 302 | 100.0 |
| Queanbeyan | 0 | 0.0 | 3 | 0.7 | 2 | 0.4 | 445 | 98.9 | 0 | 0.0 | 450 | 100.0 |
| Bowral | 0 | 0.0 | 0 | 0.0 | 17 | 3.8 | 423 | 94.8 | 6 | 1.3 | 446 | 100.0 |
| Shoalhaven | 1 | 0.1 | 3 | 0.3 | 31 | 3.6 | 833 | 96.0 | 0 | 0.0 | 868 | 100.0 |
| Broken Hill Base | 1 | 0.4 | 0 | 0.0 | 5 | 2.2 | 224 | 97.0 | 1 | 0.4 | 231 | 100.0 |
| Other hospitals | 7 | 0.4 | 3 | 0.2 | 20 | 1.3 | 1565 | 98.1 | 1 | 0.1 | 1596 | 100.0 |
| TOTAL | 41 | 0.4 | 25 | 0.3 | 291 | 2.9 | 9616 | 96.2 | 20 | 0.2 | 9993 | 100.0 |
| Level 2 | | | | | | | | | | | | |
| TOTAL | 1 | 0.1 | 0 | 0.0 | 6 | 0.6 | 1069 | 99.3 | 1 | 0.1 | 1077 | 100.0 |
| Private | | | | | | | | | | | | |
| Mater, North Sydney | 1 | 0.0 | 16 | 0.7 | 114 | 4.7 | 2276 | 94.5 | 2 | 0.1 | 2409 | 100.0 |
| North Shore Private | 11 | 0.4 | 25 | 1.0 | 147 | 5.7 | 2376 | 92.8 | 0 | 0.0 | 2559 | 100.0 |
| Sydney Adventist | 10 | 0.5 | 9 | 0.4 | 102 | 4.9 | 1946 | 94.1 | 0 | 0.0 | 2067 | 100.0 |
| North Gosford Private | 6 | 0.8 | 1 | 0.1 | 57 | 7.9 | 661 | 91.0 | 1 | 0.1 | 726 | 100.0 |
| Hurstville Community | 2 | 0.2 | 2 | 0.2 | 26 | 3.1 | 774 | 93.1 | 27 | 3.2 | 831 | 100.0 |
| Kareena Private | 1 | 0.1 | 3 | 0.4 | 53 | 6.7 | 738 | 92.8 | 0 | 0.0 | 795 | 100.0 |
| St. George Private | 2 | 0.1 | 3 | 0.2 | 118 | 7.3 | 1484 | 92.3 | 0 | 0.0 | 1607 | 100.0 |
| Prince of Wales Private | 2 | 0.1 | 6 | 0.3 | 111 | 5.0 | 2101 | 94.6 | 0 | 0.0 | 2220 | 100.0 |
| Norwest Private | 6 | 0.3 | 4 | 0.2 | 119 | 5.7 | 1958 | 93.8 | 0 | 0.0 | 2087 | 100.0 |
| Sydney Southwest Private | 2 | 0.2 | 0 | 0.0 | 57 | 5.4 | 996 | 94.4 | 0 | 0.0 | 1055 | 100.0 |
| Nepean Private | 3 | 0.4 | 0 | 0.0 | 65 | 8.1 | 738 | 91.6 | 0 | 0.0 | 806 | 100.0 |
| Westmead Private | 13 | 0.6 | 4 | 0.2 | 123 | 5.4 | 2123 | 93.8 | 0 | 0.0 | 2263 | 100.0 |
| Wollongong Private | 3 | 0.3 | 0 | 0.0 | 44 | 4.8 | 862 | 94.8 | 0 | 0.0 | 909 | 100.0 |
| Newcastle Private | 3 | 0.1 | 1 | 0.0 | 159 | 7.9 | 1857 | 91.9 | 0 | 0.0 | 2020 | 100.0 |
| Calvary, Wagga Wagga | 1 | 0.3 | 3 | 0.8 | 44 | 11.0 | 351 | 88.0 | 0 | 0.0 | 399 | 100.0 |
| Other hospitals | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 21 | 95.5 | 1 | 4.5 | 22 | 100.0 |
| TOTAL | 66 | 0.3 | 77 | 0.3 | 1339 | 5.9 | 21262 | 93.4 | 31 | 0.1 | 22775 | 100.0 |
| TOTAL NSW* | 1315 | 1.3 | 763 | 0.8 | 5102 | 5.2 | 91335 | 92.5 | 212 | 0.2 | 98727 | 100.0 |

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

Hospitals with more than 200 births in 2016 are identified individually. Maternity service levels are described on page 80 in Appendix 2: Explanatory notes.

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

Neonatal resuscitation

Table 49 shows the type of neonatal resuscitation for local health districts, and Table 50 for individual hospitals by maternity service level where at least 200 mothers gave birth in 2016.

TABLE 49: BIRTHS BY TYPE OF RESUSCITATION AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2016

| Local Health District | Resuscitation of baby | | | | | | | | | | | | | | | |
|-----------------------|-----------------------|-------------|-------------|------------|-------------|------------|--------------|------------|---------------------|------------|--|------------|------------------|------------|--------------|--------------|
| | None/Minimal | | Suction | | O2 Therapy | | IPPR by mask | | Intubation and IPPR | | External cardiac massage and ventilation | | CPAP ventilation | | TOTAL† | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 5722 | 83.0 | 159 | 2.3 | 221 | 3.2 | 614 | 8.9 | 48 | 0.7 | 31 | 0.4 | 98 | 1.4 | 6896 | 100.0 |
| South Western Sydney | 9990 | 88.0 | 233 | 2.1 | 276 | 2.4 | 615 | 5.4 | 19 | 0.2 | 57 | 0.5 | 145 | 1.3 | 11354 | 100.0 |
| South Eastern Sydney | 6499 | 79.8 | 459 | 5.6 | 193 | 2.4 | 284 | 3.5 | 74 | 0.9 | 42 | 0.5 | 589 | 7.2 | 8140 | 100.0 |
| Illawarra Shoalhaven | 2975 | 87.1 | 93 | 2.7 | 90 | 2.6 | 127 | 3.7 | 2 | 0.1 | 11 | 0.3 | 119 | 3.5 | 3417 | 100.0 |
| Western Sydney | 7891 | 76.7 | 1057 | 10.3 | 162 | 1.6 | 241 | 2.3 | 104 | 1.0 | 38 | 0.4 | 796 | 7.7 | 10291 | 100.0 |
| Nepean Blue Mountains | 4195 | 79.0 | 320 | 6.0 | 174 | 3.3 | 156 | 2.9 | 33 | 0.6 | 17 | 0.3 | 416 | 7.8 | 5311 | 100.0 |
| Northern Sydney | 4926 | 80.8 | 274 | 4.5 | 105 | 1.7 | 175 | 2.9 | 45 | 0.7 | 18 | 0.3 | 551 | 9.0 | 6094 | 100.0 |
| Central Coast | 2364 | 80.9 | 121 | 4.1 | 46 | 1.6 | 207 | 7.1 | 1 | 0.0 | 11 | 0.4 | 171 | 5.9 | 2921 | 100.0 |
| Hunter New England | 7143 | 79.8 | 200 | 2.2 | 86 | 1.0 | 361 | 4.0 | 30 | 0.3 | 40 | 0.4 | 1086 | 12.1 | 8950 | 100.0 |
| Northern NSW | 2498 | 81.7 | 103 | 3.4 | 25 | 0.8 | 103 | 3.4 | 3 | 0.1 | 6 | 0.2 | 320 | 10.5 | 3058 | 100.0 |
| Mid North Coast | 1855 | 84.2 | 34 | 1.5 | 17 | 0.8 | 84 | 3.8 | 0 | 0.0 | 8 | 0.4 | 206 | 9.3 | 2204 | 100.0 |
| Southern NSW | 1247 | 86.4 | 16 | 1.1 | 17 | 1.2 | 56 | 3.9 | 3 | 0.2 | 6 | 0.4 | 99 | 6.9 | 1444 | 100.0 |
| Murrumbidgee | 1756 | 85.7 | 45 | 2.2 | 46 | 2.2 | 103 | 5.0 | 3 | 0.1 | 8 | 0.4 | 88 | 4.3 | 2049 | 100.0 |
| Western NSW | 2965 | 84.5 | 87 | 2.5 | 91 | 2.6 | 177 | 5.0 | 5 | 0.1 | 20 | 0.6 | 164 | 4.7 | 3509 | 100.0 |
| Far West | 201 | 87.0 | 9 | 3.9 | 2 | 0.9 | 13 | 5.6 | 1 | 0.4 | 2 | 0.9 | 2 | 0.9 | 231 | 100.0 |
| Private Hospitals | 20549 | 90.2 | 536 | 2.4 | 770 | 3.4 | 736 | 3.2 | 17 | 0.1 | 30 | 0.1 | 31 | 0.1 | 22775 | 100.0 |
| TOTAL† | 82849 | 83.9 | 3746 | 3.8 | 2324 | 2.4 | 4052 | 4.1 | 388 | 0.4 | 345 | 0.3 | 4881 | 4.9 | 98727 | 100.0 |

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.
 IPPR: Intermittent positive pressure respiration. CPAP: Continuous positive airway pressure.
 † Total includes births where resuscitation type was not stated.
 * Total includes births at home assisted by independent midwives.

TABLE 50: BIRTHS BY TYPE OF RESUSCITATION, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2016†

| Maternity service level-hospital | Resuscitation of baby | | | | | | | | | | | | | | | | | | |
|----------------------------------|-----------------------|-------------|-------------|------------|------------|------------|--------------|------------|---------------------|------------|--|------------|------------------|------------|------------|------------|--------------|--------------|--|
| | None/Minimal | | Suction | | O2 Therapy | | IPPR by mask | | Intubation and IPPR | | External cardiac massage and ventilation | | CPAP ventilation | | Not stated | | TOTAL† | | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | |
| Level 6 | | | | | | | | | | | | | | | | | | | |
| Royal Prince Alfred | 4205 | 82.0 | 86 | 1.7 | 148 | 2.9 | 520 | 10.1 | 48 | 0.9 | 27 | 0.5 | 89 | 1.7 | 2 | 0.0 | 5125 | 100.0 | |
| Royal North Shore | 2329 | 77.4 | 145 | 4.8 | 43 | 1.4 | 75 | 2.5 | 41 | 1.4 | 9 | 0.3 | 367 | 12.2 | 0 | 0.0 | 3009 | 100.0 | |
| Royal Hospital for Women | 3105 | 74.5 | 350 | 8.4 | 109 | 2.6 | 175 | 4.2 | 71 | 1.7 | 15 | 0.4 | 345 | 8.3 | 0 | 0.0 | 4170 | 100.0 | |
| Liverpool | 2934 | 83.4 | 119 | 3.4 | 94 | 2.7 | 304 | 8.6 | 14 | 0.4 | 13 | 0.4 | 39 | 1.1 | 3 | 0.1 | 3520 | 100.0 | |
| Nepean | 3249 | 77.6 | 251 | 6.0 | 111 | 2.7 | 133 | 3.2 | 32 | 0.8 | 14 | 0.3 | 396 | 9.5 | 0 | 0.0 | 4186 | 100.0 | |
| Westmead | 4371 | 77.0 | 438 | 7.7 | 54 | 1.0 | 161 | 2.8 | 96 | 1.7 | 22 | 0.4 | 533 | 9.4 | 2 | 0.0 | 5677 | 100.0 | |
| John Hunter | 3035 | 74.9 | 84 | 2.1 | 17 | 0.4 | 156 | 3.9 | 23 | 0.6 | 12 | 0.3 | 724 | 17.9 | 0 | 0.0 | 4051 | 100.0 | |
| TOTAL | 23228 | 78.1 | 1473 | 5.0 | 576 | 1.9 | 1524 | 5.1 | 325 | 1.1 | 112 | 0.4 | 2493 | 8.4 | 7 | 0.0 | 29738 | 100.0 | |
| Level 5 | | | | | | | | | | | | | | | | | | | |
| Gosford | 2238 | 80.4 | 117 | 4.2 | 45 | 1.6 | 202 | 7.3 | 1 | 0.0 | 11 | 0.4 | 171 | 6.1 | 0 | 0.0 | 2785 | 100.0 | |
| St. George | 2164 | 83.8 | 76 | 2.9 | 60 | 2.3 | 83 | 3.2 | 2 | 0.1 | 21 | 0.8 | 177 | 6.9 | 0 | 0.0 | 2583 | 100.0 | |
| Blacktown | 2303 | 70.7 | 570 | 17.5 | 54 | 1.7 | 51 | 1.6 | 8 | 0.2 | 11 | 0.3 | 259 | 8.0 | 0 | 0.0 | 3256 | 100.0 | |
| Coffs Harbour | 941 | 84.9 | 19 | 1.7 | 12 | 1.1 | 42 | 3.8 | 0 | 0.0 | 2 | 0.2 | 92 | 8.3 | 0 | 0.0 | 1108 | 100.0 | |
| Lismore Base | 908 | 79.1 | 51 | 4.4 | 15 | 1.3 | 50 | 4.4 | 1 | 0.1 | 1 | 0.1 | 122 | 10.6 | 0 | 0.0 | 1148 | 100.0 | |
| Tweed Heads | 1025 | 82.9 | 37 | 3.0 | 5 | 0.4 | 35 | 2.8 | 2 | 0.2 | 4 | 0.3 | 129 | 10.4 | 0 | 0.0 | 1237 | 100.0 | |
| Port Macquarie Base | 636 | 82.3 | 13 | 1.7 | 5 | 0.6 | 26 | 3.4 | 0 | 0.0 | 4 | 0.5 | 89 | 11.5 | 0 | 0.0 | 773 | 100.0 | |
| Dubbo Base | 1018 | 80.2 | 61 | 4.8 | 19 | 1.5 | 59 | 4.6 | 2 | 0.2 | 7 | 0.6 | 104 | 8.2 | 0 | 0.0 | 1270 | 100.0 | |
| Wollongong | 2192 | 86.6 | 74 | 2.9 | 72 | 2.8 | 90 | 3.6 | 2 | 0.1 | 9 | 0.4 | 93 | 3.7 | 0 | 0.0 | 2532 | 100.0 | |
| Wagga Wagga Base | 847 | 82.4 | 31 | 3.0 | 7 | 0.7 | 65 | 6.3 | 2 | 0.2 | 7 | 0.7 | 69 | 6.7 | 0 | 0.0 | 1028 | 100.0 | |
| TOTAL | 14272 | 80.5 | 1049 | 5.9 | 294 | 1.7 | 703 | 4.0 | 20 | 0.1 | 77 | 0.4 | 1305 | 7.4 | 0 | 0.0 | 17720 | 100.0 | |
| Level 4 | | | | | | | | | | | | | | | | | | | |
| Canterbury | 1517 | 85.7 | 73 | 4.1 | 73 | 4.1 | 94 | 5.3 | 0 | 0.0 | 4 | 0.2 | 9 | 0.5 | 1 | 0.1 | 1771 | 100.0 | |
| Hornsby | 1009 | 82.4 | 64 | 5.2 | 24 | 2.0 | 26 | 2.1 | 2 | 0.2 | 4 | 0.3 | 96 | 7.8 | 0 | 0.0 | 1225 | 100.0 | |
| Manly | 825 | 83.2 | 50 | 5.0 | 27 | 2.7 | 43 | 4.3 | 0 | 0.0 | 4 | 0.4 | 43 | 4.3 | 0 | 0.0 | 992 | 100.0 | |
| Mona Vale | 671 | 87.7 | 15 | 2.0 | 5 | 0.7 | 26 | 3.4 | 2 | 0.3 | 1 | 0.1 | 45 | 5.9 | 0 | 0.0 | 765 | 100.0 | |
| Sutherland | 1230 | 88.7 | 33 | 2.4 | 24 | 1.7 | 26 | 1.9 | 1 | 0.1 | 6 | 0.4 | 67 | 4.8 | 0 | 0.0 | 1387 | 100.0 | |
| Campbelltown | 3100 | 91.5 | 17 | 0.5 | 44 | 1.3 | 138 | 4.1 | 3 | 0.1 | 21 | 0.6 | 56 | 1.7 | 10 | 0.3 | 3389 | 100.0 | |

(Continued on next page)

TABLE 50: (Continued)

| Maternity service level—hospital | Resuscitation of baby | | | | | | | | | | | | | | TOTAL† | | | |
|----------------------------------|-----------------------|-------------|-------------|------------|-------------|------------|--------------|------------|---------------------|------------|--|------------|------------------|------------|------------|------------|--------------|--------------|
| | None/Minimal | | Suction | | O2 Therapy | | IPPR by mask | | Intubation and IPPR | | External cardiac massage and ventilation | | CPAP ventilation | | Not stated | | No. | % |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Bankstown-Lidcombe | 1975 | 90.0 | 43 | 2.0 | 41 | 1.9 | 93 | 4.2 | 2 | 0.1 | 17 | 0.8 | 23 | 1.0 | 1 | 0.0 | 2195 | 100.0 |
| Grafton Base | 352 | 82.6 | 11 | 2.6 | 2 | 0.5 | 15 | 3.5 | 0 | 0.0 | 1 | 0.2 | 45 | 10.6 | 0 | 0.0 | 426 | 100.0 |
| Armidale | 325 | 79.1 | 6 | 1.5 | 23 | 5.6 | 15 | 3.6 | 0 | 0.0 | 1 | 0.2 | 41 | 10.0 | 0 | 0.0 | 411 | 100.0 |
| Tamworth Base | 792 | 78.5 | 37 | 3.7 | 13 | 1.3 | 61 | 6.0 | 6 | 0.6 | 5 | 0.5 | 95 | 9.4 | 0 | 0.0 | 1009 | 100.0 |
| Manning Base | 569 | 86.0 | 9 | 1.4 | 5 | 0.8 | 31 | 4.7 | 0 | 0.0 | 4 | 0.6 | 44 | 6.6 | 0 | 0.0 | 662 | 100.0 |
| Orange Base | 949 | 87.5 | 11 | 1.0 | 35 | 3.2 | 64 | 5.9 | 0 | 0.0 | 8 | 0.7 | 17 | 1.6 | 0 | 0.0 | 1084 | 100.0 |
| Maitland | 1269 | 86.4 | 23 | 1.6 | 5 | 0.3 | 37 | 2.5 | 0 | 0.0 | 11 | 0.7 | 123 | 8.4 | 0 | 0.0 | 1468 | 100.0 |
| Griffith Base | 466 | 86.6 | 4 | 0.7 | 28 | 5.2 | 29 | 5.4 | 0 | 0.0 | 0 | 0.0 | 11 | 2.0 | 0 | 0.0 | 538 | 100.0 |
| TOTAL | 15049 | 86.9 | 396 | 2.3 | 349 | 2.0 | 698 | 4.0 | 16 | 0.1 | 87 | 0.5 | 715 | 4.1 | 12 | 0.1 | 17322 | 100.0 |
| Level 3 | | | | | | | | | | | | | | | | | | |
| Auburn | 1217 | 89.6 | 49 | 3.6 | 54 | 4.0 | 29 | 2.1 | 0 | 0.0 | 5 | 0.4 | 4 | 0.3 | 0 | 0.0 | 1358 | 100.0 |
| Blue Mountains | 200 | 84.7 | 14 | 5.9 | 8 | 3.4 | 4 | 1.7 | 1 | 0.4 | 0 | 0.0 | 9 | 3.8 | 0 | 0.0 | 236 | 100.0 |
| Fairfield | 1598 | 88.6 | 51 | 2.8 | 80 | 4.4 | 48 | 2.7 | 0 | 0.0 | 4 | 0.2 | 19 | 1.1 | 4 | 0.2 | 1804 | 100.0 |
| Hawkesbury | 563 | 83.0 | 50 | 7.4 | 47 | 6.9 | 9 | 1.3 | 0 | 0.0 | 2 | 0.3 | 7 | 1.0 | 0 | 0.0 | 678 | 100.0 |
| Kempsey | 230 | 83.9 | 2 | 0.7 | 0 | 0.0 | 16 | 5.8 | 0 | 0.0 | 2 | 0.7 | 24 | 8.8 | 0 | 0.0 | 274 | 100.0 |
| Inverell | 178 | 71.2 | 24 | 9.6 | 9 | 3.6 | 32 | 12.8 | 0 | 0.0 | 0 | 0.0 | 7 | 2.8 | 0 | 0.0 | 250 | 100.0 |
| Mudgee | 230 | 93.1 | 0 | 0.0 | 2 | 0.8 | 12 | 4.9 | 0 | 0.0 | 1 | 0.4 | 2 | 0.8 | 0 | 0.0 | 247 | 100.0 |
| Bathurst Base | 408 | 81.9 | 13 | 2.6 | 13 | 2.6 | 31 | 6.2 | 2 | 0.4 | 0 | 0.0 | 31 | 6.2 | 0 | 0.0 | 498 | 100.0 |
| Lithgow | 183 | 86.7 | 5 | 2.4 | 8 | 3.8 | 10 | 4.7 | 0 | 0.0 | 1 | 0.5 | 4 | 1.9 | 0 | 0.0 | 211 | 100.0 |
| Bega | 222 | 86.4 | 1 | 0.4 | 6 | 2.3 | 12 | 4.7 | 0 | 0.0 | 1 | 0.4 | 15 | 5.8 | 0 | 0.0 | 257 | 100.0 |
| Goulburn Base | 231 | 80.5 | 13 | 4.5 | 4 | 1.4 | 8 | 2.8 | 1 | 0.3 | 2 | 0.7 | 28 | 9.8 | 0 | 0.0 | 287 | 100.0 |
| Moruya | 277 | 91.7 | 0 | 0.0 | 6 | 2.0 | 12 | 4.0 | 2 | 0.7 | 0 | 0.0 | 5 | 1.7 | 0 | 0.0 | 302 | 100.0 |
| Queanbeyan | 382 | 84.9 | 2 | 0.4 | 1 | 0.2 | 15 | 3.3 | 0 | 0.0 | 0 | 0.0 | 50 | 11.1 | 0 | 0.0 | 450 | 100.0 |
| Bowral | 383 | 85.9 | 3 | 0.7 | 17 | 3.8 | 32 | 7.2 | 0 | 0.0 | 2 | 0.4 | 8 | 1.8 | 1 | 0.2 | 446 | 100.0 |
| Shoalhaven | 766 | 88.2 | 19 | 2.2 | 18 | 2.1 | 37 | 4.3 | 0 | 0.0 | 2 | 0.2 | 26 | 3.0 | 0 | 0.0 | 868 | 100.0 |
| Broken Hill Base | 201 | 87.0 | 9 | 3.9 | 2 | 0.9 | 13 | 5.6 | 1 | 0.4 | 2 | 0.9 | 2 | 0.9 | 1 | 0.4 | 231 | 100.0 |
| Other hospitals | 1407 | 88.2 | 25 | 1.6 | 44 | 2.8 | 46 | 2.9 | 3 | 0.2 | 11 | 0.7 | 56 | 3.5 | 4 | 0.3 | 1596 | 100.0 |
| TOTAL | 8676 | 86.8 | 280 | 2.8 | 319 | 3.2 | 366 | 3.7 | 10 | 0.1 | 35 | 0.4 | 297 | 3.0 | 10 | 0.1 | 9993 | 100.0 |
| Level 2 | | | | | | | | | | | | | | | | | | |
| TOTAL | 983 | 91.3 | 12 | 1.1 | 13 | 1.2 | 25 | 2.3 | 0 | 0.0 | 4 | 0.4 | 40 | 3.7 | 0 | 0.0 | 1077 | 100.0 |
| Private | | | | | | | | | | | | | | | | | | |
| Mater, North Sydney | 2157 | 89.5 | 56 | 2.3 | 108 | 4.5 | 81 | 3.4 | 0 | 0.0 | 5 | 0.2 | 0 | 0.0 | 2 | 0.1 | 2409 | 100.0 |
| North Shore Private | 2293 | 89.6 | 108 | 4.2 | 89 | 3.5 | 41 | 1.6 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 26 | 1.0 | 2559 | 100.0 |
| Sydney Adventist | 1890 | 91.4 | 17 | 0.8 | 78 | 3.8 | 78 | 3.8 | 0 | 0.0 | 4 | 0.2 | 0 | 0.0 | 0 | 0.0 | 2067 | 100.0 |
| North Gosford Private | 621 | 85.5 | 19 | 2.6 | 29 | 4.0 | 49 | 6.7 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 8 | 1.1 | 726 | 100.0 |
| Hurstville Community | 752 | 90.5 | 24 | 2.9 | 36 | 4.3 | 7 | 0.8 | 0 | 0.0 | 1 | 0.1 | 0 | 0.0 | 11 | 1.3 | 831 | 100.0 |
| Kareena Private | 679 | 85.4 | 33 | 4.2 | 34 | 4.3 | 40 | 5.0 | 0 | 0.0 | 0 | 0.0 | 3 | 0.4 | 6 | 0.8 | 795 | 100.0 |
| St. George Private | 1274 | 79.3 | 86 | 5.4 | 191 | 11.9 | 36 | 2.2 | 2 | 0.1 | 1 | 0.1 | 4 | 0.2 | 13 | 0.8 | 1607 | 100.0 |
| Prince of Wales Private | 2087 | 94.0 | 19 | 0.9 | 23 | 1.0 | 76 | 3.4 | 6 | 0.3 | 2 | 0.1 | 7 | 0.3 | 0 | 0.0 | 2220 | 100.0 |
| Norwest Private | 1990 | 95.4 | 4 | 0.2 | 25 | 1.2 | 62 | 3.0 | 1 | 0.0 | 2 | 0.1 | 3 | 0.1 | 0 | 0.0 | 2087 | 100.0 |
| Sydney Southwest Private | 1035 | 98.1 | 2 | 0.2 | 6 | 0.6 | 11 | 1.0 | 0 | 0.0 | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 1055 | 100.0 |
| Nepean Private | 759 | 94.2 | 3 | 0.4 | 20 | 2.5 | 20 | 2.5 | 1 | 0.1 | 3 | 0.4 | 0 | 0.0 | 0 | 0.0 | 806 | 100.0 |
| Westmead Private | 1987 | 87.8 | 95 | 4.2 | 82 | 3.6 | 54 | 2.4 | 2 | 0.1 | 4 | 0.2 | 1 | 0.0 | 38 | 1.7 | 2263 | 100.0 |
| Wollongong Private | 795 | 87.5 | 52 | 5.7 | 39 | 4.3 | 20 | 2.2 | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 2 | 0.2 | 909 | 100.0 |
| Newcastle Private | 1849 | 91.5 | 9 | 0.4 | 6 | 0.3 | 135 | 6.7 | 3 | 0.1 | 6 | 0.3 | 12 | 0.6 | 0 | 0.0 | 2020 | 100.0 |
| Calvary, Wagga Wagga | 360 | 90.2 | 9 | 2.3 | 4 | 1.0 | 25 | 6.3 | 1 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 399 | 100.0 |
| Other hospitals | 21 | 95.5 | 0 | 0.0 | 0 | 0.0 | 1 | 4.5 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 22 | 100.0 |
| TOTAL | 20549 | 90.2 | 536 | 2.4 | 770 | 3.4 | 736 | 3.2 | 17 | 0.1 | 30 | 0.1 | 31 | 0.1 | 106 | 0.5 | 22775 | 100.0 |
| TOTAL NSW* | 82849 | 83.9 | 3746 | 3.8 | 2324 | 2.4 | 4052 | 4.1 | 388 | 0.4 | 345 | 0.3 | 4881 | 4.9 | 142 | 0.1 | 98727 | 100.0 |

Source: NSW Perinatal Data Collection (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health.
 IPPR: Intermittent positive pressure respiration. CPAP: Continuous positive airway pressure.
 # Hospitals with more than 200 births in 2016 are identified individually. Maternity service levels are described on page 80 in *Appendix 2: Explanatory notes*.
 † Total includes births where resuscitation type was not stated.
 * 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 2016.

TABLE 51: LIVE BIRTHS BY TYPE OF INFANT FEEDING AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2016

| Local Health District | Infant feeding | | | | | | | | | |
|-----------------------|--------------------|-------------|-------------------|-------------|---------------------|------------|-------------|------------|--------------|--------------|
| | Full breastfeeding | | Any breastfeeding | | Infant formula only | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 5278 | 77.0 | 1178 | 17.2 | 306 | 4.5 | 92 | 1.3 | 6854 | 100.0 |
| South Western Sydney | 6418 | 56.9 | 2360 | 20.9 | 1445 | 12.8 | 1055 | 9.4 | 11278 | 100.0 |
| South Eastern Sydney | 6717 | 83.1 | 904 | 11.2 | 390 | 4.8 | 73 | 0.9 | 8084 | 100.0 |
| Illawarra Shoalhaven | 2735 | 80.3 | 148 | 4.3 | 478 | 14.0 | 47 | 1.4 | 3408 | 100.0 |
| Western Sydney | 7818 | 76.5 | 1280 | 12.5 | 883 | 8.6 | 240 | 2.3 | 10221 | 100.0 |
| Nepean Blue Mountains | 3751 | 71.1 | 501 | 9.5 | 901 | 17.1 | 126 | 2.4 | 5279 | 100.0 |
| Northern Sydney | 5303 | 87.6 | 515 | 8.5 | 176 | 2.9 | 59 | 1.0 | 6053 | 100.0 |
| Central Coast | 2405 | 82.8 | 194 | 6.7 | 277 | 9.5 | 28 | 1.0 | 2904 | 100.0 |
| Hunter New England | 6784 | 76.2 | 717 | 8.1 | 1235 | 13.9 | 162 | 1.8 | 8898 | 100.0 |
| Northern NSW | 2635 | 86.6 | 143 | 4.7 | 161 | 5.3 | 102 | 3.4 | 3041 | 100.0 |
| Mid North Coast | 1806 | 82.4 | 135 | 6.2 | 204 | 9.3 | 47 | 2.1 | 2192 | 100.0 |
| Southern NSW | 1230 | 85.7 | 58 | 4.0 | 112 | 7.8 | 35 | 2.4 | 1435 | 100.0 |
| Murrumbidgee | 1503 | 73.7 | 135 | 6.6 | 373 | 18.3 | 29 | 1.4 | 2040 | 100.0 |
| Western NSW | 2751 | 79.0 | 198 | 5.7 | 459 | 13.2 | 74 | 2.1 | 3482 | 100.0 |
| Far West | 172 | 74.8 | 11 | 4.8 | 38 | 16.5 | 9 | 3.9 | 230 | 100.0 |
| Private Hospitals | 16142 | 71.1 | 4699 | 20.7 | 867 | 3.8 | 994 | 4.4 | 22702 | 100.0 |
| TOTAL* | 73524 | 74.9 | 13177 | 13.4 | 8305 | 8.5 | 3178 | 3.2 | 98184 | 100.0 |

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

* Total includes births at home assisted by independent midwives.

TABLE 52: LIVE BIRTHS BY TYPE OF INFANT FEEDING, HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2016[#]

| Maternity service level-hospital | Infant feeding | | | | | | | | | |
|----------------------------------|--------------------|-------------|-------------------|-------------|---------------------|-------------|------------|------------|--------------|--------------|
| | Full breastfeeding | | Any breastfeeding | | Infant formula only | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Level 6 | | | | | | | | | | |
| Royal Prince Alfred | 3975 | 78.2 | 858 | 16.9 | 201 | 4.0 | 52 | 1.0 | 5086 | 100.0 |
| Royal North Shore | 2587 | 86.8 | 288 | 9.7 | 86 | 2.9 | 20 | 0.7 | 2981 | 100.0 |
| Royal Hospital for Women | 3452 | 83.6 | 479 | 11.6 | 171 | 4.1 | 29 | 0.7 | 4131 | 100.0 |
| Liverpool | 1923 | 55.3 | 631 | 18.1 | 408 | 11.7 | 518 | 14.9 | 3480 | 100.0 |
| Nepean | 2843 | 68.4 | 455 | 10.9 | 755 | 18.2 | 106 | 2.5 | 4159 | 100.0 |
| Westmead | 4418 | 78.5 | 602 | 10.7 | 459 | 8.2 | 151 | 2.7 | 5630 | 100.0 |
| John Hunter | 3001 | 74.8 | 407 | 10.1 | 575 | 14.3 | 27 | 0.7 | 4010 | 100.0 |
| TOTAL | 22199 | 75.3 | 3720 | 12.6 | 2655 | 9.0 | 903 | 3.1 | 29477 | 100.0 |
| Level 5 | | | | | | | | | | |
| Gosford | 2275 | 82.2 | 193 | 7.0 | 273 | 9.9 | 27 | 1.0 | 2768 | 100.0 |
| St. George | 2066 | 80.4 | 341 | 13.3 | 148 | 5.8 | 15 | 0.6 | 2570 | 100.0 |
| Blacktown | 2510 | 77.4 | 348 | 10.7 | 331 | 10.2 | 52 | 1.6 | 3241 | 100.0 |
| Coffs Harbour | 924 | 83.8 | 84 | 7.6 | 79 | 7.2 | 16 | 1.5 | 1103 | 100.0 |
| Lismore Base | 963 | 84.3 | 65 | 5.7 | 51 | 4.5 | 64 | 5.6 | 1143 | 100.0 |
| Tweed Heads | 1118 | 90.9 | 44 | 3.6 | 57 | 4.6 | 11 | 0.9 | 1230 | 100.0 |
| Port Macquarie Base | 617 | 80.4 | 44 | 5.7 | 80 | 10.4 | 26 | 3.4 | 767 | 100.0 |
| Dubbo Base | 963 | 76.4 | 74 | 5.9 | 210 | 16.7 | 14 | 1.1 | 1261 | 100.0 |
| Wollongong | 1991 | 78.8 | 117 | 4.6 | 397 | 15.7 | 21 | 0.8 | 2526 | 100.0 |
| Wagga Wagga Base | 738 | 72.2 | 72 | 7.0 | 196 | 19.2 | 16 | 1.6 | 1022 | 100.0 |
| TOTAL | 14165 | 80.3 | 1382 | 7.8 | 1822 | 10.3 | 262 | 1.5 | 17631 | 100.0 |
| Level 4 | | | | | | | | | | |
| Canterbury | 1303 | 73.7 | 320 | 18.1 | 105 | 5.9 | 40 | 2.3 | 1768 | 100.0 |
| Hornsby | 1059 | 86.8 | 107 | 8.8 | 38 | 3.1 | 16 | 1.3 | 1220 | 100.0 |
| Manly | 876 | 88.6 | 82 | 8.3 | 20 | 2.0 | 11 | 1.1 | 989 | 100.0 |
| Mona Vale | 682 | 89.7 | 38 | 5.0 | 31 | 4.1 | 9 | 1.2 | 760 | 100.0 |
| Sutherland | 1199 | 86.7 | 84 | 6.1 | 71 | 5.1 | 29 | 2.1 | 1383 | 100.0 |
| Campbelltown | 2055 | 60.9 | 432 | 12.8 | 511 | 15.1 | 375 | 11.1 | 3373 | 100.0 |
| Bankstown-Lidcombe | 1395 | 64.0 | 485 | 22.2 | 241 | 11.0 | 60 | 2.8 | 2181 | 100.0 |
| Grafton Base | 337 | 79.9 | 31 | 7.3 | 47 | 11.1 | 7 | 1.7 | 422 | 100.0 |
| Armidale | 342 | 83.2 | 31 | 7.5 | 35 | 8.5 | 3 | 0.7 | 411 | 100.0 |
| Tamworth Base | 722 | 72.0 | 74 | 7.4 | 152 | 15.2 | 55 | 5.5 | 1003 | 100.0 |

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TABLE 52: (Continued)

| Maternity service level-hospital | Infant feeding | | | | | | | | | |
|----------------------------------|--------------------|-------------|-------------------|-------------|---------------------|-------------|-------------|------------|--------------|--------------|
| | Full breastfeeding | | Any breastfeeding | | Infant formula only | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Manning Base | 508 | 76.9 | 45 | 6.8 | 84 | 12.7 | 24 | 3.6 | 661 | 100.0 |
| Orange Base | 834 | 77.9 | 87 | 8.1 | 110 | 10.3 | 40 | 3.7 | 1071 | 100.0 |
| Maitland | 1114 | 76.0 | 81 | 5.5 | 246 | 16.8 | 24 | 1.6 | 1465 | 100.0 |
| Griffith Base | 369 | 69.0 | 51 | 9.5 | 108 | 20.2 | 7 | 1.3 | 535 | 100.0 |
| TOTAL | 12795 | 74.2 | 1948 | 11.3 | 1799 | 10.4 | 700 | 4.1 | 17242 | 100.0 |
| Level 3 | | | | | | | | | | |
| Auburn | 890 | 65.9 | 330 | 24.4 | 93 | 6.9 | 37 | 2.7 | 1350 | 100.0 |
| Blue Mountains | 204 | 86.4 | 8 | 3.4 | 14 | 5.9 | 10 | 4.2 | 236 | 100.0 |
| Fairfield | 704 | 39.1 | 780 | 43.3 | 248 | 13.8 | 68 | 3.8 | 1800 | 100.0 |
| Hawkesbury | 557 | 82.5 | 27 | 4.0 | 86 | 12.7 | 5 | 0.7 | 675 | 100.0 |
| Kempsey | 223 | 81.7 | 6 | 2.2 | 41 | 15.0 | 3 | 1.1 | 273 | 100.0 |
| Inverell | 180 | 72.0 | 24 | 9.6 | 40 | 16.0 | 6 | 2.4 | 250 | 100.0 |
| Mudgee | 204 | 82.6 | 5 | 2.0 | 35 | 14.2 | 3 | 1.2 | 247 | 100.0 |
| Bathurst Base | 417 | 84.1 | 17 | 3.4 | 52 | 10.5 | 10 | 2.0 | 496 | 100.0 |
| Lithgow | 147 | 70.3 | 11 | 5.3 | 46 | 22.0 | 5 | 2.4 | 209 | 100.0 |
| Bega | 217 | 84.4 | 13 | 5.1 | 22 | 8.6 | 5 | 1.9 | 257 | 100.0 |
| Goulburn Base | 228 | 80.0 | 13 | 4.6 | 38 | 13.3 | 6 | 2.1 | 285 | 100.0 |
| Moruya | 259 | 86.9 | 10 | 3.4 | 20 | 6.7 | 9 | 3.0 | 298 | 100.0 |
| Queanbeyan | 403 | 90.2 | 20 | 4.5 | 16 | 3.6 | 8 | 1.8 | 447 | 100.0 |
| Bowral | 341 | 76.8 | 32 | 7.2 | 37 | 8.3 | 34 | 7.7 | 444 | 100.0 |
| Shoalhaven | 728 | 84.2 | 31 | 3.6 | 81 | 9.4 | 25 | 2.9 | 865 | 100.0 |
| Broken Hill Base | 172 | 74.8 | 11 | 4.8 | 38 | 16.5 | 9 | 3.9 | 230 | 100.0 |
| Other hospitals | 1295 | 81.3 | 75 | 4.7 | 196 | 12.3 | 27 | 1.7 | 1593 | 100.0 |
| TOTAL | 7169 | 72.0 | 1413 | 14.2 | 1103 | 11.1 | 270 | 2.7 | 9955 | 100.0 |
| Level 2 | | | | | | | | | | |
| TOTAL | 961 | 89.4 | 14 | 1.3 | 59 | 5.5 | 41 | 3.8 | 1075 | 100.0 |
| Private | | | | | | | | | | |
| Mater, North Sydney | 1627 | 67.6 | 664 | 27.6 | 97 | 4.0 | 19 | 0.8 | 2407 | 100.0 |
| North Shore Private | 1820 | 71.4 | 624 | 24.5 | 94 | 3.7 | 10 | 0.4 | 2548 | 100.0 |
| Sydney Adventist | 1538 | 74.7 | 360 | 17.5 | 51 | 2.5 | 110 | 5.3 | 2059 | 100.0 |
| North Gosford Private | 606 | 84.4 | 65 | 9.1 | 45 | 6.3 | 2 | 0.3 | 718 | 100.0 |
| Hurstville Community | 523 | 63.1 | 218 | 26.3 | 70 | 8.4 | 18 | 2.2 | 829 | 100.0 |
| Kareena Private | 640 | 80.6 | 72 | 9.1 | 76 | 9.6 | 6 | 0.8 | 794 | 100.0 |
| St. George Private | 997 | 62.2 | 474 | 29.6 | 124 | 7.7 | 7 | 0.4 | 1602 | 100.0 |
| Prince of Wales Private | 1698 | 76.7 | 404 | 18.2 | 0 | 0.0 | 113 | 5.1 | 2215 | 100.0 |
| Norwest Private | 1481 | 71.2 | 361 | 17.4 | 0 | 0.0 | 238 | 11.4 | 2080 | 100.0 |
| Sydney Southwest Private | 592 | 56.2 | 299 | 28.4 | 0 | 0.0 | 162 | 15.4 | 1053 | 100.0 |
| Nepean Private | 554 | 69.1 | 149 | 18.6 | 0 | 0.0 | 99 | 12.3 | 802 | 100.0 |
| Westmead Private | 1485 | 65.9 | 557 | 24.7 | 191 | 8.5 | 19 | 0.8 | 2252 | 100.0 |
| Wollongong Private | 720 | 79.4 | 75 | 8.3 | 105 | 11.6 | 7 | 0.8 | 907 | 100.0 |
| Newcastle Private | 1505 | 74.7 | 327 | 16.2 | 0 | 0.0 | 184 | 9.1 | 2016 | 100.0 |
| Calvary, Wagga Wagga | 339 | 85.2 | 49 | 12.3 | 10 | 2.5 | 0 | 0.0 | 398 | 100.0 |
| Other hospitals | 17 | 77.3 | 1 | 4.5 | 4 | 18.2 | 0 | 0.0 | 22 | 100.0 |
| TOTAL | 16142 | 71.1 | 4699 | 20.7 | 867 | 3.8 | 994 | 4.4 | 22702 | 100.0 |
| TOTAL NSW* | 73524 | 74.9 | 13177 | 13.4 | 8305 | 8.5 | 3178 | 3.2 | 98184 | 100.0 |

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

Hospitals with more than 200 births in 2016 are identified individually. Maternity service levels are described on page 80 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 2016.

TABLE 53: BABY DISCHARGE STATUS BY HOSPITAL AND LOCAL HEALTH DISTRICT OF HOSPITAL, NSW 2016

| Local Health District | Baby discharge status | | | | | | | | | | | |
|-----------------------|-----------------------|-------------|------------|------------|----------------|------------|-------------|------------|------------|------------|--------------|--------------|
| | Discharged | | Stillborn | | Neonatal death | | Transferred | | Not Stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 6666 | 96.7 | 42 | 0.6 | 14 | 0.2 | 166 | 2.4 | 8 | 0.1 | 6896 | 100.0 |
| South Western Sydney | 10903 | 96.0 | 76 | 0.7 | 30 | 0.3 | 319 | 2.8 | 26 | 0.2 | 11354 | 100.0 |
| South Eastern Sydney | 7867 | 96.6 | 56 | 0.7 | 30 | 0.4 | 170 | 2.1 | 17 | 0.2 | 8140 | 100.0 |
| Illawarra Shoalhaven | 3298 | 96.5 | 9 | 0.3 | 4 | 0.1 | 86 | 2.5 | 20 | 0.6 | 3417 | 100.0 |
| Western Sydney | 9723 | 94.5 | 70 | 0.7 | 40 | 0.4 | 361 | 3.5 | 97 | 0.9 | 10291 | 100.0 |
| Nepean Blue Mountains | 4964 | 93.5 | 32 | 0.6 | 16 | 0.3 | 210 | 4.0 | 89 | 1.7 | 5311 | 100.0 |
| Northern Sydney | 5881 | 96.5 | 41 | 0.7 | 12 | 0.2 | 159 | 2.6 | 1 | 0.0 | 6094 | 100.0 |
| Central Coast | 2858 | 97.8 | 17 | 0.6 | 5 | 0.2 | 39 | 1.3 | 2 | 0.1 | 2921 | 100.0 |
| Hunter New England | 8342 | 93.2 | 52 | 0.6 | 29 | 0.3 | 443 | 4.9 | 84 | 0.9 | 8950 | 100.0 |
| Northern NSW | 2919 | 95.5 | 17 | 0.6 | 2 | 0.1 | 50 | 1.6 | 70 | 2.3 | 3058 | 100.0 |
| Mid North Coast | 2049 | 93.0 | 12 | 0.5 | 3 | 0.1 | 113 | 5.1 | 27 | 1.2 | 2204 | 100.0 |
| Southern NSW | 1382 | 95.7 | 9 | 0.6 | 4 | 0.3 | 46 | 3.2 | 3 | 0.2 | 1444 | 100.0 |
| Murrumbidgee | 1896 | 92.5 | 9 | 0.4 | 5 | 0.2 | 136 | 6.6 | 3 | 0.1 | 2049 | 100.0 |
| Western NSW | 3235 | 92.2 | 27 | 0.8 | 7 | 0.2 | 211 | 6.0 | 29 | 0.8 | 3509 | 100.0 |
| Far West | 221 | 95.7 | 1 | 0.4 | 1 | 0.4 | 2 | 0.9 | 6 | 2.6 | 231 | 100.0 |
| Private Hospitals | 22518 | 98.9 | 73 | 0.3 | 7 | 0.0 | 174 | 0.8 | 3 | 0.0 | 22775 | 100.0 |
| TOTAL* | 94802 | 96.0 | 543 | 0.6 | 209 | 0.2 | 2686 | 2.7 | 487 | 0.5 | 98727 | 100.0 |

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

* Total includes births at home assisted by independent midwives.

TABLE 54: BABY DISCHARGE STATUS BY HOSPITAL AND MATERNITY SERVICE LEVEL, NSW 2016*

| Maternity service level-hospital | Baby discharge status | | | | | | | | | | | |
|----------------------------------|-----------------------|-------------|------------|------------|----------------|------------|-------------|------------|------------|------------|--------------|--------------|
| | Discharged | | Stillborn | | Neonatal death | | Transferred | | Not Stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Level 6 | | | | | | | | | | | | |
| Royal Prince Alfred | 4942 | 96.4 | 39 | 0.8 | 13 | 0.3 | 127 | 2.5 | 4 | 0.1 | 5125 | 100.0 |
| Royal North Shore | 2861 | 95.1 | 28 | 0.9 | 11 | 0.4 | 109 | 3.6 | 0 | 0.0 | 3009 | 100.0 |
| Royal Hospital for Women | 3986 | 95.6 | 39 | 0.9 | 21 | 0.5 | 124 | 3.0 | 0 | 0.0 | 4170 | 100.0 |
| Liverpool | 3244 | 92.2 | 40 | 1.1 | 22 | 0.6 | 207 | 5.9 | 7 | 0.2 | 3520 | 100.0 |
| Nepean | 3869 | 92.4 | 27 | 0.6 | 16 | 0.4 | 196 | 4.7 | 78 | 1.9 | 4186 | 100.0 |
| Westmead | 5232 | 92.2 | 47 | 0.8 | 24 | 0.4 | 298 | 5.2 | 76 | 1.3 | 5677 | 100.0 |
| John Hunter | 3747 | 92.5 | 41 | 1.0 | 24 | 0.6 | 239 | 5.9 | 0 | 0.0 | 4051 | 100.0 |
| TOTAL | 27881 | 93.8 | 261 | 0.9 | 131 | 0.4 | 1300 | 4.4 | 165 | 0.6 | 29738 | 100.0 |
| Level 5 | | | | | | | | | | | | |
| Gosford | 2737 | 98.3 | 17 | 0.6 | 5 | 0.2 | 24 | 0.9 | 2 | 0.1 | 2785 | 100.0 |
| St. George | 2529 | 97.9 | 13 | 0.5 | 5 | 0.2 | 35 | 1.4 | 1 | 0.0 | 2583 | 100.0 |
| Blacktown | 3182 | 97.7 | 15 | 0.5 | 15 | 0.5 | 44 | 1.4 | 0 | 0.0 | 3256 | 100.0 |
| Coffs Harbour | 1036 | 93.5 | 5 | 0.5 | 0 | 0.0 | 62 | 5.6 | 5 | 0.5 | 1108 | 100.0 |
| Lismore Base | 1076 | 93.7 | 5 | 0.4 | 1 | 0.1 | 16 | 1.4 | 50 | 4.4 | 1148 | 100.0 |
| Tweed Heads | 1215 | 98.2 | 7 | 0.6 | 1 | 0.1 | 9 | 0.7 | 5 | 0.4 | 1237 | 100.0 |
| Port Macquarie Base | 711 | 92.0 | 6 | 0.8 | 3 | 0.4 | 33 | 4.3 | 20 | 2.6 | 773 | 100.0 |
| Dubbo Base | 1144 | 90.1 | 9 | 0.7 | 3 | 0.2 | 111 | 8.7 | 3 | 0.2 | 1270 | 100.0 |
| Wollongong | 2453 | 96.9 | 6 | 0.2 | 4 | 0.2 | 67 | 2.6 | 2 | 0.1 | 2532 | 100.0 |
| Wagga Wagga Base | 938 | 91.2 | 6 | 0.6 | 5 | 0.5 | 78 | 7.6 | 1 | 0.1 | 1028 | 100.0 |
| TOTAL | 17021 | 96.1 | 89 | 0.5 | 42 | 0.2 | 479 | 2.7 | 89 | 0.5 | 17720 | 100.0 |
| Level 4 | | | | | | | | | | | | |
| Canterbury | 1724 | 97.3 | 3 | 0.2 | 1 | 0.1 | 39 | 2.2 | 4 | 0.2 | 1771 | 100.0 |
| Hornsby | 1203 | 98.2 | 5 | 0.4 | 0 | 0.0 | 17 | 1.4 | 0 | 0.0 | 1225 | 100.0 |
| Manly | 974 | 98.2 | 3 | 0.3 | 0 | 0.0 | 14 | 1.4 | 1 | 0.1 | 992 | 100.0 |
| Mona Vale | 746 | 97.5 | 5 | 0.7 | 1 | 0.1 | 13 | 1.7 | 0 | 0.0 | 765 | 100.0 |
| Sutherland | 1352 | 97.5 | 4 | 0.3 | 4 | 0.3 | 11 | 0.8 | 16 | 1.2 | 1387 | 100.0 |
| Campbelltown | 3303 | 97.5 | 16 | 0.5 | 3 | 0.1 | 53 | 1.6 | 14 | 0.4 | 3389 | 100.0 |
| Bankstown-Lidcombe | 2146 | 97.8 | 14 | 0.6 | 3 | 0.1 | 31 | 1.4 | 1 | 0.0 | 2195 | 100.0 |
| Grafton Base | 412 | 96.7 | 4 | 0.9 | 0 | 0.0 | 10 | 2.3 | 0 | 0.0 | 426 | 100.0 |
| Armidale | 399 | 97.1 | 0 | 0.0 | 1 | 0.2 | 11 | 2.7 | 0 | 0.0 | 411 | 100.0 |
| Tamworth Base | 906 | 89.8 | 6 | 0.6 | 2 | 0.2 | 55 | 5.5 | 40 | 4.0 | 1009 | 100.0 |

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TABLE 54: (Continued)

| Maternity service level–hospital | Baby discharge status | | | | | | | | | | | |
|----------------------------------|-----------------------|-------------|------------|------------|----------------|------------|-------------|------------|------------|------------|--------------|--------------|
| | Discharged | | Stillborn | | Neonatal death | | Transferred | | Not Stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| Manning Base | 631 | 95.3 | 1 | 0.2 | 0 | 0.0 | 14 | 2.1 | 16 | 2.4 | 662 | 100.0 |
| Orange Base | 981 | 90.5 | 13 | 1.2 | 3 | 0.3 | 67 | 6.2 | 20 | 1.8 | 1084 | 100.0 |
| Maitland | 1378 | 93.9 | 3 | 0.2 | 1 | 0.1 | 69 | 4.7 | 17 | 1.2 | 1468 | 100.0 |
| Griffith Base | 495 | 92.0 | 3 | 0.6 | 0 | 0.0 | 40 | 7.4 | 0 | 0.0 | 538 | 100.0 |
| TOTAL | 16650 | 96.1 | 80 | 0.5 | 19 | 0.1 | 444 | 2.6 | 129 | 0.7 | 17322 | 100.0 |
| Level 3 | | | | | | | | | | | | |
| Auburn | 1309 | 96.4 | 8 | 0.6 | 1 | 0.1 | 19 | 1.4 | 21 | 1.5 | 1358 | 100.0 |
| Blue Mountains | 222 | 94.1 | 0 | 0.0 | 0 | 0.0 | 5 | 2.1 | 9 | 3.8 | 236 | 100.0 |
| Fairfield | 1778 | 98.6 | 4 | 0.2 | 2 | 0.1 | 17 | 0.9 | 3 | 0.2 | 1804 | 100.0 |
| Hawkesbury | 671 | 99.0 | 3 | 0.4 | 0 | 0.0 | 3 | 0.4 | 1 | 0.1 | 678 | 100.0 |
| Kempsey | 255 | 93.1 | 1 | 0.4 | 0 | 0.0 | 17 | 6.2 | 1 | 0.4 | 274 | 100.0 |
| Inverell | 244 | 97.6 | 0 | 0.0 | 1 | 0.4 | 5 | 2.0 | 0 | 0.0 | 250 | 100.0 |
| Mudgee | 241 | 97.6 | 0 | 0.0 | 0 | 0.0 | 6 | 2.4 | 0 | 0.0 | 247 | 100.0 |
| Bathurst Base | 483 | 97.0 | 2 | 0.4 | 1 | 0.2 | 8 | 1.6 | 4 | 0.8 | 498 | 100.0 |
| Lithgow | 202 | 95.7 | 2 | 0.9 | 0 | 0.0 | 6 | 2.8 | 1 | 0.5 | 211 | 100.0 |
| Bega | 250 | 97.3 | 0 | 0.0 | 0 | 0.0 | 6 | 2.3 | 1 | 0.4 | 257 | 100.0 |
| Goulburn Base | 279 | 97.2 | 2 | 0.7 | 0 | 0.0 | 6 | 2.1 | 0 | 0.0 | 287 | 100.0 |
| Moruya | 283 | 93.7 | 4 | 1.3 | 2 | 0.7 | 13 | 4.3 | 0 | 0.0 | 302 | 100.0 |
| Queanbeyan | 429 | 95.3 | 3 | 0.7 | 0 | 0.0 | 17 | 3.8 | 1 | 0.2 | 450 | 100.0 |
| Bowral | 432 | 96.9 | 2 | 0.4 | 0 | 0.0 | 11 | 2.5 | 1 | 0.2 | 446 | 100.0 |
| Shoalhaven | 831 | 95.7 | 3 | 0.3 | 0 | 0.0 | 17 | 2.0 | 17 | 2.0 | 868 | 100.0 |
| Broken Hill Base | 221 | 95.7 | 1 | 0.4 | 1 | 0.4 | 2 | 0.9 | 6 | 2.6 | 231 | 100.0 |
| Other hospitals | 1518 | 95.1 | 3 | 0.2 | 0 | 0.0 | 67 | 4.2 | 8 | 0.5 | 1596 | 100.0 |
| TOTAL | 9648 | 96.5 | 38 | 0.4 | 8 | 0.1 | 225 | 2.3 | 74 | 0.7 | 9993 | 100.0 |
| Level 2 | | | | | | | | | | | | |
| TOTAL | 989 | 91.8 | 2 | 0.2 | 2 | 0.2 | 61 | 5.7 | 23 | 2.1 | 1077 | 100.0 |
| Private | | | | | | | | | | | | |
| Mater, North Sydney | 2385 | 99.0 | 2 | 0.1 | 1 | 0.0 | 21 | 0.9 | 0 | 0.0 | 2409 | 100.0 |
| North Shore Private | 2535 | 99.1 | 11 | 0.4 | 1 | 0.0 | 12 | 0.5 | 0 | 0.0 | 2559 | 100.0 |
| Sydney Adventist | 2051 | 99.2 | 8 | 0.4 | 2 | 0.1 | 6 | 0.3 | 0 | 0.0 | 2067 | 100.0 |
| North Gosford Private | 708 | 97.5 | 8 | 1.1 | 0 | 0.0 | 8 | 1.1 | 2 | 0.3 | 726 | 100.0 |
| Hurstville Community | 825 | 99.3 | 2 | 0.2 | 0 | 0.0 | 4 | 0.5 | 0 | 0.0 | 831 | 100.0 |
| Kareena Private | 787 | 99.0 | 1 | 0.1 | 0 | 0.0 | 7 | 0.9 | 0 | 0.0 | 795 | 100.0 |
| St. George Private | 1589 | 98.9 | 5 | 0.3 | 0 | 0.0 | 13 | 0.8 | 0 | 0.0 | 1607 | 100.0 |
| Prince of Wales Private | 2212 | 99.6 | 5 | 0.2 | 0 | 0.0 | 3 | 0.1 | 0 | 0.0 | 2220 | 100.0 |
| Norwest Private | 2061 | 98.8 | 7 | 0.3 | 0 | 0.0 | 18 | 0.9 | 1 | 0.0 | 2087 | 100.0 |
| Sydney Southwest Private | 1046 | 99.1 | 2 | 0.2 | 0 | 0.0 | 7 | 0.7 | 0 | 0.0 | 1055 | 100.0 |
| Nepean Private | 795 | 98.6 | 4 | 0.5 | 0 | 0.0 | 7 | 0.9 | 0 | 0.0 | 806 | 100.0 |
| Westmead Private | 2221 | 98.1 | 11 | 0.5 | 2 | 0.1 | 29 | 1.3 | 0 | 0.0 | 2263 | 100.0 |
| Wollongong Private | 894 | 98.3 | 2 | 0.2 | 1 | 0.1 | 12 | 1.3 | 0 | 0.0 | 909 | 100.0 |
| Newcastle Private | 1996 | 98.8 | 4 | 0.2 | 0 | 0.0 | 20 | 1.0 | 0 | 0.0 | 2020 | 100.0 |
| Calvary, Wagga Wagga | 394 | 98.7 | 1 | 0.3 | 0 | 0.0 | 4 | 1.0 | 0 | 0.0 | 399 | 100.0 |
| Other hospitals | 19 | 86.4 | 0 | 0.0 | 0 | 0.0 | 3 | 13.6 | 0 | 0.0 | 22 | 100.0 |
| TOTAL | 22518 | 98.9 | 73 | 0.3 | 7 | 0.0 | 174 | 0.8 | 3 | 0.0 | 22775 | 100.0 |
| TOTAL NSW* | 94802 | 96.0 | 543 | 0.6 | 209 | 0.2 | 2686 | 2.7 | 487 | 0.5 | 98727 | 100.0 |

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

Hospitals with more than 200 births in 2016 are identified individually. Maternity service levels are described on page 80 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 2016.

TABLE 55: AVERAGE MATERNAL POSTNATAL LENGTH OF STAY IN HOSPITAL OF BIRTH, NSW 2012–2016[#]

| Local Health District–Hospital | | Average postnatal length of stay (days) | | | | |
|--------------------------------|--------------------------|---|------------|------------|------------|------------|
| | | 2012 | 2013 | 2014 | 2015 | 2016 |
| Sydney | Canterbury | 2.8 | 2.6 | 2.6 | 2.7 | 2.6 |
| | Royal Prince Alfred | 3.2 | 3.1 | 3.1 | 3.1 | 3.2 |
| | TOTAL | 3.1 | 3.0 | 3.0 | 3.0 | 3.0 |
| South Western Sydney | Fairfield | 2.3 | 2.3 | 2.3 | 2.5 | 2.5 |
| | Liverpool | 2.9 | 2.9 | 2.9 | 2.7 | 2.6 |
| | Campbelltown | 2.3 | 2.3 | 2.3 | 2.3 | 2.1 |
| | Bankstown-Lidcombe | 2.4 | 2.6 | 2.4 | 2.4 | 2.4 |
| | Bowral | 2.7 | 2.8 | 2.8 | 2.8 | 2.7 |
| TOTAL | 2.5 | 2.6 | 2.5 | 2.5 | 2.4 | |
| South Eastern Sydney | St. George | 2.8 | 2.8 | 2.5 | 2.4 | 2.2 |
| | Sutherland | 2.7 | 2.6 | 2.6 | 2.2 | 2.0 |
| | Royal Hospital for Women | 3.1 | 3.0 | 2.9 | 2.9 | 3.0 |
| | Other hospitals | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | 2.9 | 2.9 | 2.7 | 2.7 | 2.6 | |
| Illawarra Shoalhaven | Shoalhaven | 2.6 | 2.2 | 2.0 | 2.2 | 2.3 |
| | Wollongong | 2.5 | 2.5 | 2.5 | 2.4 | 2.4 |
| | Other hospitals | 2.3 | 2.2 | 1.7 | 1.7 | 1.4 |
| | TOTAL | 2.5 | 2.4 | 2.3 | 2.3 | 2.3 |
| Western Sydney | Auburn | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 |
| | Blacktown | 2.4 | 2.2 | 2.2 | 2.2 | 2.1 |
| | Westmead | 2.2 | 2.1 | 2.0 | 2.1 | 2.1 |
| | TOTAL | 2.2 | 2.1 | 2.0 | 2.1 | 2.1 |
| Nepean Blue Mountains | Blue Mountains | 2.6 | 2.2 | 2.0 | 2.2 | 2.5 |
| | Nepean | 2.0 | 2.0 | 2.0 | 2.2 | 2.0 |
| | Hawkesbury | 3.1 | 3.0 | 3.0 | 3.0 | 2.9 |
| | Lithgow | 2.7 | 3.0 | 2.8 | 2.8 | 2.7 |
| | TOTAL | 2.2 | 2.2 | 2.2 | 2.3 | 2.2 |
| Northern Sydney | Hornsby | 2.2 | 2.0 | 2.0 | 2.0 | 2.1 |
| | Manly | 2.3 | 2.4 | 2.2 | 2.4 | 2.4 |
| | Mona Vale | 2.4 | 2.5 | 2.5 | 2.4 | 2.3 |
| | Royal North Shore | 2.7 | 2.8 | 2.7 | 2.9 | 2.8 |
| | Other hospitals | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| | TOTAL | 2.4 | 2.5 | 2.4 | 2.5 | 2.5 |
| Central Coast | Gosford | 2.1 | 2.2 | 2.1 | 2.1 | 2.1 |
| | Other hospitals | 0.9 | 0.4 | 0.2 | 0.1 | 0.2 |
| | TOTAL | 2.1 | 2.1 | 2.0 | 2.0 | 2.0 |
| Hunter New England | Armidale | 3.0 | 2.4 | 2.4 | 2.4 | 2.5 |
| | Inverell | 2.9 | 2.8 | 3.3 | 2.8 | 2.9 |
| | Tamworth Base | 2.7 | 2.7 | 2.3 | 2.5 | 2.4 |
| | Manning Base | 3.0 | 2.7 | 2.6 | 2.7 | 2.7 |
| | Maitland | 2.4 | 2.1 | 2.2 | 2.0 | 2.0 |
| | John Hunter | 2.6 | 2.6 | 2.5 | 2.4 | 2.4 |
| | Other hospitals | 2.4 | 2.3 | 2.3 | 2.3 | 2.3 |
| | TOTAL | 2.6 | 2.5 | 2.4 | 2.4 | 2.4 |
| Northern NSW | Grafton Base | 3.4 | 3.1 | 3.3 | 3.0 | 3.0 |
| | Lismore Base | 2.8 | 2.8 | 2.6 | 2.3 | 2.3 |
| | Tweed Heads | 2.4 | 2.6 | 2.6 | 2.5 | 2.5 |
| | Other hospitals | 2.1 | 2.8 | 3.2 | 1.8 | 1.8 |
| | TOTAL | 2.6 | 2.7 | 2.7 | 2.5 | 2.4 |

| Local Health District–Hospital | | Average postnatal length of stay (days) | | | | |
|--------------------------------|--------------------------|---|------------|------------|------------|------------|
| | | 2012 | 2013 | 2014 | 2015 | 2016 |
| Mid North Coast | Coffs Harbour | 3.1 | 2.8 | 2.5 | 2.6 | 2.7 |
| | Kempsey | 3.0 | 2.6 | 2.5 | 2.3 | 2.4 |
| | Port Macquarie Base | 3.5 | 2.8 | 2.6 | 2.6 | 2.4 |
| | Other hospitals | 2.8 | 2.7 | 2.6 | 2.0 | 2.3 |
| | TOTAL | 3.2 | 2.8 | 2.6 | 2.6 | 2.6 |
| Southern NSW | Bega | 2.4 | 2.1 | 2.3 | 2.4 | 2.3 |
| | Goulburn Base | 3.0 | 2.8 | 2.6 | 2.5 | 2.4 |
| | Moruya | 2.4 | 2.4 | 2.2 | 2.2 | 2.2 |
| | Queanbeyan | 2.8 | 2.7 | 2.8 | 2.8 | 2.8 |
| | Other hospitals | 3.3 | 3.3 | 3.3 | 3.6 | 2.9 |
| | TOTAL | 2.7 | 2.6 | 2.6 | 2.6 | 2.5 |
| Murrumbidgee | Griffith Base | 2.9 | 2.8 | 2.9 | 2.8 | 2.9 |
| | Wagga Wagga Base | 2.6 | 2.6 | 2.5 | 2.5 | 2.4 |
| | Other hospitals | 3.1 | 3.0 | 3.0 | 2.7 | 2.8 |
| | TOTAL | 2.8 | 2.8 | 2.8 | 2.6 | 2.6 |
| Western NSW | Dubbo Base | 2.5 | 2.5 | 2.2 | 2.2 | 2.2 |
| | Mudgee | 2.8 | 3.0 | 2.8 | 2.5 | 2.4 |
| | Bathurst Base | 2.9 | 2.6 | 2.5 | 2.7 | 2.3 |
| | Orange Base | 2.6 | 2.5 | 2.5 | 2.3 | 2.5 |
| | Other hospitals | 2.8 | 2.9 | 2.6 | 2.6 | 3.0 |
| | TOTAL | 2.7 | 2.6 | 2.4 | 2.4 | 2.4 |
| | Far West | Broken Hill Base | 3.0 | 2.5 | 2.8 | 2.3 |
| TOTAL | | 3.0 | 2.5 | 2.8 | 2.3 | 2.1 |
| Private Hospitals | Mater, North Sydney | 4.4 | 4.6 | 4.7 | 4.4 | 4.5 |
| | North Shore Private | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | Sydney Adventist | 4.7 | 4.6 | 4.7 | 4.7 | 4.7 |
| | North Gosford Private | 4.4 | 4.8 | 4.9 | 4.3 | 4.3 |
| | Hurstville Community | 4.4 | 4.3 | 4.4 | 4.2 | 4.5 |
| | Kareena Private | 4.5 | 4.3 | 4.4 | 4.4 | 4.4 |
| | St. George Private | 4.4 | 4.4 | 4.4 | 4.4 | 4.3 |
| | Prince of Wales Private | 4.5 | 4.6 | 4.6 | 4.5 | 4.5 |
| | Norwest Private | 4.3 | 4.4 | 4.5 | 4.3 | 4.2 |
| | Sydney Southwest Private | 4.4 | 4.4 | 4.2 | 4.0 | 3.8 |
| | Nepean Private | 4.6 | 4.5 | 4.3 | 4.1 | 4.2 |
| | Westmead Private | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 |
| | Wollongong Private | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 |
| | Newcastle Private | 4.1 | 4.3 | 4.3 | 4.2 | 4.3 |
| | Calvary, Wagga Wagga | 5.0 | 4.5 | 4.8 | 4.6 | 4.5 |
| | Other hospitals | 5.1 | 5.2 | 5.2 | 5.2 | 4.5 |
| | TOTAL | 4.5 | 4.5 | 4.5 | 4.4 | 4.4 |
| TOTAL NSW* | 3.1 | 3.0 | 3.0 | 2.9 | 2.9 | |

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

[#] Hospitals with more than 200 births in 2016 are identified individually.

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

7. CLINICAL INDICATORS

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

Outcome of selected primipara

Indicator 1.1

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

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

Table 56 shows information for hospitals where at least 200 mothers gave birth in 2016, 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 2012–2016^a

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 52.6 | 54.4 | 51.7 | 49.7 | 42.6 |
| | Royal Prince Alfred | 54.1 | 52.9 | 52.4 | 52.2 | 51.4 |
| | TOTAL | 53.8 | 53.3 | 52.2 | 51.5 | 49.5 |
| South Western Sydney | Fairfield | 79.2 | 79.9 | 76.4 | 69.6 | 64.1 |
| | Liverpool | 62.7 | 63.2 | 58.8 | 59.9 | 56.0 |
| | Campbelltown | 65.4 | 65.7 | 62.1 | 61.5 | 56.4 |
| | Bankstown-Lidcombe | 61.9 | 64.0 | 64.4 | 59.6 | 48.6 |
| | Bowral | 57.7 | 57.1 | 45.3 | 48.4 | 39.8 |
| TOTAL | 66.3 | 66.7 | 63.2 | 61.3 | 55.5 | |
| South Eastern Sydney | St. George | 53.0 | 52.6 | 50.7 | 46.3 | 44.9 |
| | Sutherland | 58.8 | 57.9 | 57.9 | 52.9 | 56.4 |
| | Royal Hospital for Women | 53.0 | 50.5 | 48.7 | 47.4 | 49.9 |
| TOTAL | 53.9 | 52.5 | 50.9 | 48.0 | 49.4 | |
| Illawarra Shoalhaven | Shoalhaven | 57.7 | 52.6 | 57.8 | 49.1 | 52.9 |
| | Wollongong | 61.9 | 52.0 | 50.6 | 52.2 | 52.6 |
| | Other hospitals | 50.0 | 50.0 | 88.2 | 100.0 | 0.0 |
| TOTAL | 60.3 | 52.1 | 53.2 | 51.5 | 52.6 | |
| Western Sydney | Auburn | 71.2 | 64.2 | 66.0 | 61.7 | 63.5 |
| | Blacktown | 48.2 | 48.3 | 48.9 | 50.8 | 51.4 |
| | Westmead | 51.8 | 50.0 | 52.6 | 52.4 | 53.9 |
| TOTAL | 53.8 | 51.6 | 53.5 | 53.3 | 54.5 | |
| Nepean Blue Mountains | Blue Mountains | 73.7 | 46.7 | 75.8 | 52.9 | 52.0 |
| | Nepean | 45.3 | 44.9 | 45.7 | 43.1 | 46.2 |
| | Hawkesbury | 43.5 | 43.4 | 44.2 | 43.4 | 47.8 |
| | Lithgow | 65.9 | 61.0 | 55.3 | 55.6 | 62.0 |
| TOTAL | 47.1 | 45.5 | 47.3 | 44.3 | 47.2 | |
| Northern Sydney | Hornsby | 58.9 | 61.5 | 59.7 | 54.2 | 50.6 |
| | Manly | 51.9 | 53.2 | 48.9 | 48.9 | 45.6 |
| | Mona Vale | 43.4 | 43.4 | 53.4 | 59.9 | 52.2 |
| | Royal North Shore | 50.7 | 45.7 | 49.3 | 52.9 | 47.8 |
| | Other hospitals | 100.0 | 100.0 | 97.3 | 100.0 | 100.0 |
| TOTAL | 53.7 | 50.9 | 52.6 | 54.2 | 49.2 | |
| Central Coast | Gosford | 44.6 | 44.0 | 44.1 | 51.2 | 49.7 |
| | Other hospitals | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| TOTAL | 47.4 | 47.6 | 46.1 | 53.1 | 51.9 | |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|---------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Hunter New England | Armidale | 57.4 | 62.6 | 39.2 | 44.6 | 51.6 |
| | Inverell | 46.7 | 35.6 | 46.9 | 43.3 | 50.9 |
| | Tamworth Base | 56.9 | 50.8 | 57.1 | 50.8 | 51.1 |
| | Manning Base | 56.4 | 56.6 | 54.8 | 48.4 | 54.7 |
| | Maitland | 56.2 | 56.3 | 61.3 | 58.4 | 62.3 |
| | John Hunter | 51.9 | 54.2 | 54.2 | 53.9 | 51.1 |
| | Other hospitals | 67.9 | 66.0 | 67.5 | 65.5 | 71.0 |
| | TOTAL | 55.8 | 55.6 | 56.4 | 54.5 | 55.6 |
| Northern NSW | Grafton Base | 63.0 | 52.4 | 60.3 | 53.4 | 58.3 |
| | Lismore Base | 63.3 | 56.0 | 59.1 | 64.3 | 54.2 |
| | Tweed Heads | 65.1 | 61.6 | 53.8 | 61.6 | 63.0 |
| | Other hospitals | 90.1 | 96.5 | 98.4 | 98.2 | 84.5 |
| TOTAL | 66.9 | 60.8 | 59.8 | 64.1 | 61.3 | |
| Mid North Coast | Coffs Harbour | 51.9 | 54.3 | 54.6 | 56.2 | 48.0 |
| | Kempsey | 63.0 | 70.5 | 60.3 | 58.6 | 64.4 |
| | Port Macquarie Base | 55.9 | 57.0 | 50.0 | 49.7 | 52.1 |
| | Other hospitals | 91.7 | 66.7 | 63.6 | 100.0 | 100.0 |
| TOTAL | 55.1 | 56.9 | 53.9 | 55.1 | 51.7 | |
| Southern NSW | Bega | 53.8 | 49.2 | 54.2 | 54.0 | 54.4 |
| | Goulburn Base | 45.6 | 48.8 | 48.5 | 42.1 | 40.0 |
| | Moruya | 56.4 | 65.1 | 62.7 | 51.5 | 59.4 |
| | Queanbeyan | 55.0 | 52.0 | 44.6 | 49.3 | 51.9 |
| | Other hospitals | 56.8 | 57.5 | 73.2 | 83.0 | 78.3 |
| TOTAL | 53.5 | 53.5 | 53.4 | 53.4 | 54.4 | |
| Murrumbidgee | Griffith Base | 43.0 | 52.1 | 44.4 | 49.1 | 49.0 |
| | Wagga Wagga Base | 48.3 | 53.0 | 52.3 | 43.2 | 49.8 |
| | Other hospitals | 66.1 | 65.2 | 62.7 | 66.1 | 53.8 |
| TOTAL | 51.0 | 56.4 | 53.8 | 50.5 | 50.5 | |
| Western NSW | Dubbo Base | 62.2 | 51.7 | 48.8 | 52.1 | 51.3 |
| | Mudgee | 73.1 | 73.2 | 59.0 | 56.2 | 56.5 |
| | Bathurst Base | 57.7 | 57.0 | 50.7 | 65.5 | 57.6 |
| | Orange Base | 52.6 | 46.7 | 48.7 | 52.8 | 49.6 |
| | Other hospitals | 57.0 | 58.3 | 56.9 | 68.3 | 66.7 |
| | TOTAL | 58.8 | 53.7 | 50.9 | 56.7 | 54.1 |

(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 | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Far West | Broken Hill Base | 56.0 | 46.5 | 65.0 | 67.7 | 63.3 |
| | TOTAL | 56.0 | 46.5 | 65.0 | 67.7 | 63.3 |
| Private Hospitals | Mater, North Sydney | 33.4 | 35.4 | 35.8 | 34.5 | 28.1 |
| | North Shore Private | 31.7 | 36.0 | 31.3 | 30.3 | 31.2 |
| | Sydney Adventist | 51.2 | 51.9 | 51.2 | 52.4 | 45.3 |
| | North Gosford Private | 36.7 | 35.3 | 27.6 | 33.5 | 28.6 |
| | Hurstville Community | 43.5 | 38.3 | 36.6 | 46.4 | 46.4 |
| | Kareena Private | 31.0 | 34.9 | 27.9 | 34.2 | 28.9 |
| | St. George Private | 31.1 | 33.0 | 27.8 | 32.8 | 33.2 |
| | Prince of Wales Private | 30.4 | 28.6 | 29.7 | 30.9 | 30.7 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| | Norwest Private | 43.3 | 40.4 | 46.4 | 39.9 | 42.8 |
| | Sydney Southwest Private | 42.8 | 47.7 | 46.3 | 36.2 | 39.4 |
| | Nepean Private | 41.7 | 31.6 | 40.8 | 42.2 | 37.9 |
| | Westmead Private | 32.3 | 36.4 | 35.4 | 37.2 | 40.2 |
| | Wollongong Private | 0.0 | 0.0 | 0.0 | 0.0 | 32.0 |
| | Newcastle Private | 41.3 | 42.9 | 38.8 | 40.8 | 34.9 |
| | Calvary, Wagga Wagga | 35.5 | 23.5 | 23.0 | 25.5 | 35.8 |
| | Other hospitals | 33.8 | 35.2 | 33.4 | 33.6 | 0.0 |
| | TOTAL | 36.9 | 37.4 | 36.6 | 36.9 | 35.7 |
| TOTAL NSW* | | 51.4 | 50.6 | 50.0 | 49.8 | 48.5 |

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

Hospitals with more than 200 births in 2016 are identified individually

* Total NSW includes births at home assisted by independent midwives

Indicator 1.2

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

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

Table 57 shows information for hospitals where at least 200 mothers gave birth in 2016, 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 2012–2016*

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|--------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 37.8 | 39.7 | 44.8 | 47.6 | 46.5 |
| | Royal Prince Alfred | 34.3 | 34.6 | 36.3 | 38.2 | 38.4 |
| | TOTAL | 35.1 | 35.7 | 38.4 | 40.5 | 40.2 |
| South Western Sydney | Fairfield | 24.6 | 25.9 | 30.4 | 28.9 | 30.8 |
| | Liverpool | 30.8 | 33.0 | 33.2 | 34.3 | 39.8 |
| | Campbelltown | 34.5 | 40.9 | 36.2 | 37.8 | 38.3 |
| | Bankstown-Lidcombe | 32.0 | 34.0 | 33.6 | 39.6 | 41.1 |
| | Bowral | 30.1 | 38.8 | 33.3 | 27.0 | 31.4 |
| | TOTAL | 30.9 | 34.6 | 33.7 | 35.4 | 37.7 |
| South Eastern Sydney | St. George | 40.5 | 44.9 | 47.2 | 49.1 | 46.7 |
| | Sutherland | 35.1 | 36.5 | 38.7 | 39.7 | 41.2 |
| | Royal Hospital for Women | 34.5 | 41.9 | 40.5 | 37.7 | 38.4 |
| | TOTAL | 36.7 | 41.9 | 42.4 | 41.7 | 41.6 |
| Illawarra Shoalhaven | Shoalhaven | 34.6 | 47.0 | 41.3 | 43.1 | 47.6 |
| | Wollongong | 36.3 | 38.2 | 46.4 | 44.2 | 44.2 |
| | Other hospitals | 21.9 | 18.8 | 11.8 | 0.0 | 0.0 |
| | TOTAL | 35.3 | 39.7 | 44.4 | 43.7 | 45.1 |
| Western Sydney | Auburn | 31.8 | 34.1 | 38.8 | 43.0 | 40.4 |
| | Blacktown | 45.0 | 46.0 | 43.9 | 45.8 | 45.9 |
| | Westmead | 40.0 | 45.2 | 48.2 | 46.3 | 48.3 |
| | TOTAL | 40.1 | 43.8 | 45.7 | 45.6 | 46.4 |
| Nepean Blue Mountains | Blue Mountains | 26.3 | 35.0 | 27.3 | 36.8 | 18.7 |
| | Nepean | 43.6 | 45.5 | 48.4 | 48.1 | 45.6 |
| | Hawkesbury | 32.5 | 47.3 | 47.0 | 44.3 | 51.1 |
| | Lithgow | 34.1 | 59.3 | 53.2 | 61.9 | 54.0 |
| | TOTAL | 40.5 | 46.0 | 47.3 | 47.5 | 45.2 |
| Northern Sydney | Hornsby | 34.2 | 31.6 | 37.8 | 33.0 | 37.9 |
| | Manly | 43.0 | 43.6 | 42.3 | 48.0 | 42.2 |
| | Mona Vale | 34.0 | 37.4 | 30.8 | 36.0 | 31.0 |
| | Royal North Shore | 41.5 | 45.2 | 45.1 | 44.2 | 45.1 |
| | Other hospitals | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | TOTAL | 39.1 | 40.5 | 40.6 | 40.9 | 40.9 |
| Central Coast | Gosford | 44.2 | 45.5 | 42.7 | 43.8 | 42.7 |
| | Other hospitals | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | TOTAL | 41.9 | 42.5 | 41.2 | 42.1 | 40.8 |
| Hunter New England | Armidale | 37.5 | 39.6 | 32.0 | 29.8 | 28.4 |
| | Inverell | 53.3 | 28.8 | 39.1 | 35.0 | 41.8 |
| | Tamworth Base | 44.6 | 48.8 | 45.6 | 46.6 | 45.6 |
| | Manning Base | 34.6 | 42.8 | 40.1 | 43.4 | 52.7 |
| | Maitland | 42.1 | 48.0 | 43.9 | 45.6 | 49.1 |
| | John Hunter | 43.0 | 43.1 | 46.0 | 47.1 | 51.0 |
| | Other hospitals | 21.9 | 25.2 | 25.7 | 24.9 | 27.6 |
| | TOTAL | 39.4 | 42.0 | 42.2 | 42.9 | 46.1 |
| | Northern NSW | Grafton Base | 32.0 | 41.9 | 39.7 | 42.0 |
| Lismore Base | | 31.0 | 34.0 | 33.0 | 34.5 | 40.7 |
| Tweed Heads | | 26.2 | 33.4 | 39.8 | 44.5 | 38.2 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Other hospitals | | 0.0 | 1.8 | 0.0 | 0.0 | 16.9 |
| TOTAL | | 25.5 | 32.7 | 34.6 | 37.9 | 37.2 |
| Mid North Coast | Coffs Harbour | 31.2 | 37.4 | 34.3 | 36.0 | 44.4 |
| | Kempsey | 17.4 | 36.4 | 27.6 | 34.5 | 22.0 |
| | Port Macquarie Base | 37.7 | 39.6 | 41.5 | 45.0 | 47.4 |
| | Other hospitals | 0.0 | 16.7 | 0.0 | 0.0 | 0.0 |
| | TOTAL | 31.8 | 38.0 | 35.2 | 38.2 | 42.7 |
| Southern NSW | Bega | 30.8 | 23.0 | 30.6 | 27.0 | 47.1 |
| | Goulburn Base | 27.8 | 30.5 | 31.8 | 30.3 | 28.0 |
| | Moruya | 29.5 | 30.2 | 27.1 | 30.3 | 31.9 |
| | Queanbeyan | 18.1 | 23.7 | 30.6 | 30.0 | 39.0 |
| | Other hospitals | 22.7 | 27.5 | 28.6 | 30.2 | 17.4 |
| TOTAL | 24.4 | 26.4 | 30.0 | 29.7 | 34.7 | |
| Murrumbidgee | Griffith Base | 35.2 | 30.7 | 41.0 | 45.5 | 37.1 |
| | Wagga Wagga Base | 40.5 | 43.5 | 44.8 | 49.4 | 45.7 |
| | Other hospitals | 26.8 | 30.3 | 28.0 | 27.4 | 27.4 |
| | TOTAL | 35.5 | 35.5 | 38.7 | 42.7 | 39.3 |
| Western NSW | Dubbo Base | 48.1 | 43.8 | 51.2 | 53.4 | 52.5 |
| | Mudgee | 35.9 | 40.8 | 32.8 | 32.9 | 34.8 |
| | Bathurst Base | 32.4 | 30.3 | 38.2 | 28.2 | 41.7 |
| | Orange Base | 41.5 | 48.3 | 45.8 | 48.0 | 48.8 |
| | Other hospitals | 27.3 | 23.3 | 33.0 | 28.7 | 30.6 |
| | TOTAL | 39.2 | 40.2 | 43.7 | 43.0 | 45.7 |
| Far West | Broken Hill Base | 30.0 | 25.6 | 46.7 | 30.6 | 40.0 |
| | TOTAL | 30.0 | 25.6 | 46.7 | 30.6 | 40.0 |
| Private Hospitals | Mater, North Sydney | 26.4 | 29.1 | 32.0 | 27.8 | 28.2 |
| | North Shore Private | 26.2 | 27.3 | 29.9 | 29.1 | 26.1 |
| | Sydney Adventist | 27.3 | 31.3 | 28.1 | 30.5 | 29.4 |
| | North Gosford Private | 44.5 | 45.4 | 44.8 | 47.7 | 45.2 |
| | Hurstville Community | 26.5 | 41.1 | 29.6 | 34.0 | 26.8 |
| | Kareena Private | 26.7 | 33.6 | 31.4 | 30.4 | 35.1 |
| | St. George Private | 32.4 | 33.3 | 35.4 | 42.7 | 37.8 |
| | Prince of Wales Private | 25.2 | 26.5 | 27.5 | 31.9 | 33.3 |
| | Norwest Private | 46.3 | 49.8 | 49.2 | 51.8 | 55.5 |
| | Sydney Southwest Private | 34.3 | 48.0 | 38.7 | 48.6 | 46.6 |
| | Nepean Private | 47.4 | 45.3 | 53.8 | 57.8 | 62.5 |
| | Westmead Private | 38.0 | 37.0 | 38.0 | 41.9 | 40.8 |
| | Wollongong Private | 0.0 | 0.0 | 0.0 | 0.0 | 45.7 |
| | Newcastle Private | 37.3 | 39.4 | 41.7 | 46.3 | 50.2 |
| | Calvary, Wagga Wagga | 50.4 | 47.0 | 37.2 | 40.9 | 41.1 |
| | Other hospitals | 46.6 | 47.3 | 49.3 | 49.8 | 0.0 |
| TOTAL | 33.9 | 36.4 | 36.7 | 39.4 | 38.8 | |
| TOTAL NSW* | | 35.6 | 38.6 | 39.5 | 40.8 | 41.3 |

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
 # Hospitals with more than 200 births in 2016 are identified individually
 * Total NSW includes births at home assisted by independent midwives

Indicator 1.3

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

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

Table 58 shows information for hospitals where at least 200 mothers gave birth in 2016, 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 2012–2016*

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|--------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 19.1 | 19.9 | 22.8 | 24.6 | 27.6 |
| | Royal Prince Alfred | 25.9 | 24.6 | 25.6 | 25.8 | 21.9 |
| | TOTAL | 24.4 | 23.5 | 24.9 | 25.5 | 23.2 |
| South Western Sydney | Fairfield | 8.8 | 7.6 | 8.4 | 10.5 | 14.4 |
| | Liverpool | 19.1 | 19.1 | 22.4 | 21.8 | 21.9 |
| | Campbelltown | 13.8 | 13.4 | 14.3 | 17.2 | 21.4 |
| | Bankstown-Lidcombe | 18.8 | 14.9 | 14.9 | 20.6 | 17.4 |
| | Bowral | 25.2 | 19.7 | 22.6 | 25.4 | 24.6 |
| | TOTAL | 15.8 | 14.6 | 16.2 | 18.5 | 19.7 |
| South Eastern Sydney | St. George | 26.8 | 24.7 | 26.8 | 27.2 | 29.7 |
| | Sutherland | 24.9 | 23.2 | 23.9 | 25.8 | 23.8 |
| | Royal Hospital for Women | 30.3 | 30.6 | 31.7 | 30.5 | 27.6 |
| | TOTAL | 28.3 | 27.4 | 28.8 | 28.6 | 27.6 |
| Illawarra Shoalhaven | Shoalhaven | 20.5 | 22.8 | 15.7 | 15.4 | 17.8 |
| | Wollongong | 17.8 | 21.0 | 21.0 | 21.7 | 24.5 |
| | Other hospitals | 25.0 | 25.0 | 0.0 | 0.0 | 0.0 |
| | TOTAL | 18.8 | 21.6 | 19.2 | 19.9 | 22.9 |
| Western Sydney | Auburn | 15.0 | 17.5 | 13.4 | 15.0 | 14.0 |
| | Blacktown | 25.7 | 22.1 | 21.2 | 21.6 | 22.9 |
| | Westmead | 23.0 | 26.9 | 23.2 | 21.2 | 22.6 |
| | TOTAL | 22.5 | 24.1 | 21.2 | 20.4 | 21.5 |
| Nepean Blue Mountains | Blue Mountains | 12.3 | 18.3 | 9.1 | 19.1 | 25.3 |
| | Nepean | 19.9 | 22.4 | 21.0 | 21.3 | 19.0 |
| | Hawkesbury | 19.0 | 19.0 | 18.6 | 22.6 | 18.3 |
| | Lithgow | 12.2 | 6.8 | 6.4 | 11.1 | 10.0 |
| | TOTAL | 19.1 | 20.8 | 19.5 | 20.9 | 19.0 |
| Northern Sydney | Hornsby | 20.4 | 18.4 | 22.2 | 28.2 | 24.4 |
| | Manly | 32.9 | 25.3 | 26.3 | 27.7 | 27.5 |
| | Mona Vale | 26.4 | 32.3 | 27.3 | 17.6 | 24.3 |
| | Royal North Shore | 22.3 | 26.0 | 29.0 | 25.3 | 27.3 |
| | Other hospitals | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 |
| | TOTAL | 23.9 | 24.6 | 26.6 | 24.9 | 26.1 |
| Central Coast | Gosford | 28.4 | 30.8 | 29.0 | 26.7 | 26.4 |
| | Other hospitals | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | TOTAL | 27.0 | 28.8 | 27.9 | 25.7 | 25.3 |
| Hunter New England | Armidale | 15.4 | 13.2 | 23.7 | 16.5 | 15.8 |
| | Inverell | 18.3 | 11.9 | 10.9 | 23.3 | 21.8 |
| | Tamworth Base | 17.8 | 25.6 | 26.7 | 21.1 | 21.3 |
| | Manning Base | 24.0 | 26.4 | 30.6 | 28.3 | 26.0 |
| | Maitland | 17.0 | 17.2 | 15.3 | 20.0 | 17.5 |
| | John Hunter | 24.0 | 19.9 | 21.7 | 22.7 | 23.3 |
| | Other hospitals | 14.7 | 16.7 | 13.7 | 14.9 | 14.0 |
| | TOTAL | 20.3 | 19.6 | 20.5 | 21.2 | 20.8 |
| | Northern NSW | Grafton Base | 13.0 | 15.2 | 16.4 | 20.5 |
| Lismore Base | | 17.3 | 23.6 | 18.3 | 16.9 | 23.6 |
| Tweed Heads | | 20.9 | 18.4 | 21.2 | 20.9 | 18.8 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Other hospitals | | 8.9 | 1.8 | 0.0 | 0.0 | 7.0 |
| | TOTAL | 17.8 | 18.8 | 18.0 | 18.1 | 19.9 |
| Mid North Coast | Coffs Harbour | 19.3 | 16.5 | 17.5 | 18.4 | 22.0 |
| | Kempsey | 15.2 | 11.4 | 15.5 | 8.6 | 16.9 |
| | Port Macquarie Base | 19.1 | 24.6 | 23.3 | 23.8 | 17.2 |
| | Other hospitals | 8.3 | 33.3 | 36.4 | 0.0 | 0.0 |
| | TOTAL | 18.7 | 19.6 | 19.6 | 18.8 | 19.5 |
| Southern NSW | Bega | 17.3 | 24.6 | 18.1 | 17.5 | 16.2 |
| | Goulburn Base | 38.0 | 28.0 | 27.3 | 32.9 | 20.0 |
| | Moruya | 24.4 | 12.7 | 15.3 | 21.2 | 15.9 |
| | Queanbeyan | 23.5 | 29.6 | 29.3 | 22.0 | 29.9 |
| | Other hospitals | 13.6 | 10.0 | 8.9 | 3.8 | 10.9 |
| TOTAL | 24.6 | 23.9 | 22.2 | 20.8 | 21.4 | |
| Murrumbidgee | Griffith Base | 32.4 | 25.7 | 23.9 | 21.8 | 23.8 |
| | Wagga Wagga Base | 17.6 | 20.8 | 15.4 | 20.3 | 20.8 |
| | Other hospitals | 13.4 | 13.6 | 15.5 | 19.4 | 20.5 |
| | TOTAL | 21.1 | 20.2 | 17.3 | 20.4 | 21.6 |
| Western NSW | Dubbo Base | 9.1 | 21.7 | 23.0 | 20.9 | 25.8 |
| | Mudgee | 14.1 | 11.3 | 19.7 | 19.2 | 26.1 |
| | Bathurst Base | 15.5 | 12.7 | 20.1 | 16.2 | 20.9 |
| | Orange Base | 26.1 | 23.4 | 23.9 | 26.6 | 18.1 |
| | Other hospitals | 14.1 | 12.6 | 16.5 | 6.9 | 14.4 |
| | TOTAL | 16.5 | 18.7 | 21.7 | 20.0 | 21.4 |
| Far West | Broken Hill Base | 14.0 | 30.2 | 23.3 | 14.5 | 10.0 |
| | TOTAL | 14.0 | 30.2 | 23.3 | 14.5 | 10.0 |
| Private Hospitals | Mater, North Sydney | 25.9 | 24.7 | 23.7 | 23.8 | 25.0 |
| | North Shore Private | 29.0 | 26.1 | 24.7 | 26.4 | 22.7 |
| | Sydney Adventist | 15.1 | 16.2 | 16.4 | 15.3 | 23.6 |
| | North Gosford Private | 18.8 | 25.2 | 27.1 | 27.2 | 25.8 |
| | Hurstville Community | 21.9 | 28.0 | 25.4 | 19.6 | 23.8 |
| | Kareena Private | 28.7 | 26.2 | 32.8 | 24.5 | 26.9 |
| | St. George Private | 25.9 | 29.6 | 29.3 | 28.9 | 28.0 |
| | Prince of Wales Private | 25.1 | 26.0 | 22.0 | 24.2 | 24.7 |
| | Norwest Private | 29.9 | 31.2 | 27.1 | 26.4 | 27.1 |
| | Sydney Southwest Private | 24.3 | 28.1 | 24.8 | 35.6 | 33.4 |
| | Nepean Private | 19.8 | 25.9 | 26.5 | 18.9 | 23.3 |
| | Westmead Private | 27.6 | 25.3 | 24.1 | 25.6 | 22.1 |
| | Wollongong Private | 0.0 | 0.0 | 0.0 | 0.0 | 36.0 |
| | Newcastle Private | 26.1 | 29.0 | 26.7 | 25.4 | 30.1 |
| | Calvary, Wagga Wagga | 24.8 | 17.4 | 23.0 | 24.8 | 22.1 |
| | Other hospitals | 34.0 | 30.5 | 24.7 | 25.4 | 0.0 |
| TOTAL | 25.6 | 26.2 | 24.7 | 24.8 | 25.9 | |
| TOTAL NSW* | | 22.6 | 22.9 | 22.7 | 22.8 | 23.3 |

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

Hospitals with more than 200 births in 2016 are identified individually

* Total NSW includes births at home assisted by independent midwives

Indicator 1.4

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

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

Table 59 shows information for hospitals where at least 200 mothers gave birth in 2016, 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 2012–2016*

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|--------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 28.2 | 25.4 | 25.5 | 25.8 | 29.8 |
| | Royal Prince Alfred | 20.0 | 22.5 | 22.0 | 22.0 | 26.6 |
| | TOTAL | 21.8 | 23.1 | 22.8 | 23.0 | 27.3 |
| South Western Sydney | Fairfield | 12.0 | 12.5 | 15.2 | 20.0 | 21.3 |
| | Liverpool | 18.2 | 17.7 | 18.8 | 18.3 | 22.0 |
| | Campbelltown | 20.8 | 20.9 | 23.6 | 21.3 | 22.2 |
| | Bankstown-Lidcombe | 19.3 | 21.1 | 20.7 | 19.9 | 33.9 |
| | Bowral | 17.1 | 23.1 | 32.1 | 26.2 | 34.7 |
| | TOTAL | 17.9 | 18.7 | 20.6 | 20.1 | 24.6 |
| South Eastern Sydney | St. George | 20.2 | 22.7 | 22.5 | 26.5 | 25.5 |
| | Sutherland | 16.3 | 18.9 | 18.2 | 21.4 | 19.8 |
| | Royal Hospital for Women | 16.7 | 18.9 | 19.6 | 22.1 | 22.5 |
| | TOTAL | 17.8 | 20.1 | 20.3 | 23.4 | 23.0 |
| Illawarra Shoalhaven | Shoalhaven | 21.8 | 24.7 | 26.5 | 35.6 | 29.3 |
| | Wollongong | 20.4 | 27.0 | 28.4 | 26.0 | 22.9 |
| | Other hospitals | 25.0 | 25.0 | 11.8 | 0.0 | 0.0 |
| | TOTAL | 20.9 | 26.3 | 27.6 | 28.5 | 24.5 |
| Western Sydney | Auburn | 13.8 | 18.3 | 20.6 | 23.3 | 22.2 |
| | Blacktown | 26.1 | 29.7 | 29.9 | 27.7 | 25.7 |
| | Westmead | 25.1 | 23.1 | 24.2 | 26.4 | 23.5 |
| | TOTAL | 23.6 | 24.3 | 25.3 | 26.3 | 24.0 |
| Nepean Blue Mountains | Blue Mountains | 14.0 | 35.0 | 15.2 | 27.9 | 22.7 |
| | Nepean | 34.8 | 32.7 | 33.3 | 35.6 | 34.8 |
| | Hawkesbury | 37.5 | 37.6 | 37.2 | 33.9 | 33.9 |
| | TOTAL | 33.8 | 33.7 | 33.2 | 34.8 | 33.8 |
| Northern Sydney | Hornsby | 20.7 | 20.1 | 18.1 | 17.6 | 24.9 |
| | Manly | 15.1 | 21.5 | 24.9 | 23.4 | 26.9 |
| | Mona Vale | 30.2 | 24.2 | 19.4 | 22.5 | 23.5 |
| | Royal North Shore | 27.1 | 28.2 | 21.6 | 21.8 | 24.9 |
| | Other hospitals | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | TOTAL | 22.4 | 24.5 | 20.9 | 20.9 | 24.7 |
| Central Coast | Gosford | 27.0 | 25.2 | 26.9 | 22.0 | 23.9 |
| | Other hospitals | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | TOTAL | 25.6 | 23.6 | 26.0 | 21.2 | 22.9 |
| Hunter New England | Armidale | 27.2 | 24.2 | 37.1 | 38.8 | 32.6 |
| | Inverell | 35.0 | 52.5 | 42.2 | 33.3 | 27.3 |
| | Tamworth Base | 25.2 | 23.6 | 16.1 | 28.2 | 27.6 |
| | Manning Base | 19.6 | 17.0 | 14.6 | 23.3 | 19.3 |
| | Maitland | 26.8 | 26.5 | 23.4 | 21.6 | 20.2 |
| | John Hunter | 24.1 | 25.9 | 24.1 | 23.4 | 25.6 |
| | Other hospitals | 17.4 | 17.4 | 18.9 | 19.5 | 15.0 |
| | TOTAL | 23.9 | 24.7 | 23.0 | 24.2 | 23.6 |
| | Northern NSW | Grafton Base | 24.0 | 32.4 | 23.3 | 26.1 |
| Lismore Base | | 19.4 | 20.4 | 22.6 | 18.8 | 22.2 |
| Tweed Heads | | 14.0 | 20.0 | 24.9 | 17.6 | 18.2 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Other hospitals | | 1.0 | 1.8 | 1.6 | 1.8 | 8.5 |
| | TOTAL | 15.3 | 20.4 | 22.2 | 17.8 | 18.8 |
| Mid North Coast | Coffs Harbour | 28.8 | 29.1 | 27.9 | 25.5 | 29.6 |
| | Kempsey | 21.7 | 18.2 | 24.1 | 32.8 | 18.6 |
| | Port Macquarie Base | 25.0 | 18.4 | 26.7 | 26.5 | 30.7 |
| | Other hospitals | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | TOTAL | 26.2 | 23.5 | 26.5 | 26.0 | 28.6 |
| Southern NSW | Bega | 28.8 | 26.2 | 27.8 | 28.6 | 29.4 |
| | Goulburn Base | 16.5 | 23.2 | 24.2 | 25.0 | 40.0 |
| | Moruya | 19.2 | 22.2 | 22.0 | 27.3 | 24.6 |
| | Queanbeyan | 21.5 | 18.4 | 26.1 | 28.7 | 18.2 |
| | TOTAL | 21.9 | 22.6 | 24.4 | 25.7 | 24.3 |
| Murrumbidgee | Griffith Base | 24.6 | 22.1 | 31.6 | 29.1 | 27.3 |
| | Wagga Wagga Base | 34.1 | 26.2 | 32.4 | 36.5 | 29.4 |
| | Other hospitals | 19.6 | 21.2 | 21.7 | 14.5 | 25.6 |
| | TOTAL | 27.7 | 23.4 | 28.9 | 29.1 | 28.0 |
| Western NSW | Dubbo Base | 28.6 | 26.6 | 28.2 | 27.1 | 22.9 |
| | Mudgee | 12.8 | 15.5 | 21.3 | 24.7 | 17.4 |
| | Bathurst Base | 26.8 | 30.3 | 29.2 | 18.3 | 21.6 |
| | Orange Base | 21.3 | 29.9 | 27.3 | 20.6 | 32.3 |
| | Other hospitals | 28.9 | 29.1 | 26.6 | 24.8 | 18.9 |
| | TOTAL | 24.7 | 27.6 | 27.4 | 23.3 | 24.5 |
| Far West | Broken Hill Base | 30.0 | 23.3 | 11.7 | 17.7 | 26.7 |
| | TOTAL | 30.0 | 23.3 | 11.7 | 17.7 | 26.7 |
| Private Hospitals | Mater, North Sydney | 40.5 | 39.5 | 40.1 | 41.6 | 47.0 |
| | North Shore Private | 39.2 | 37.9 | 44.0 | 43.2 | 46.1 |
| | Sydney Adventist | 33.3 | 31.9 | 32.4 | 32.3 | 30.9 |
| | North Gosford Private | 44.1 | 38.5 | 45.2 | 39.3 | 45.6 |
| | Hurstville Community | 34.6 | 33.6 | 38.0 | 34.0 | 29.8 |
| | Kareena Private | 39.9 | 38.4 | 39.3 | 41.4 | 44.2 |
| | St. George Private | 43.0 | 37.4 | 42.9 | 38.3 | 38.9 |
| | Prince of Wales Private | 44.2 | 45.2 | 48.2 | 44.9 | 44.6 |
| | Norwest Private | 26.6 | 28.1 | 26.2 | 33.7 | 30.1 |
| | Sydney Southwest Private | 32.6 | 23.8 | 28.9 | 28.2 | 27.1 |
| | Nepean Private | 38.5 | 42.5 | 32.8 | 39.0 | 38.7 |
| | Westmead Private | 40.1 | 38.3 | 40.5 | 37.0 | 37.8 |
| | Wollongong Private | 0.0 | 0.0 | 0.0 | 0.0 | 32.0 |
| | Newcastle Private | 32.6 | 28.0 | 33.9 | 33.8 | 34.9 |
| | Calvary, Wagga Wagga | 39.0 | 59.1 | 53.4 | 49.6 | 42.1 |
| | Other hospitals | 32.2 | 34.3 | 41.9 | 41.0 | 100.0 |
| TOTAL | 37.4 | 36.3 | 38.5 | 38.2 | 38.4 | |
| TOTAL NSW* | 25.9 | 26.5 | 27.3 | 27.4 | 28.2 | |

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

Hospitals with more than 200 births in 2016 are identified individually

* Total NSW includes births at home assisted by independent midwives

Vaginal birth following caesarean section

Indicator 2.1

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

Table 60 shows information for hospitals where at least 200 mothers gave birth in 2016, 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 2012–2016*

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 7.4 | 8.2 | 10.9 | 12.2 | 22.4 |
| | Royal Prince Alfred | 12.7 | 15.4 | 11.3 | 13.9 | 12.0 |
| | TOTAL | 11.5 | 13.5 | 11.2 | 13.5 | 15.7 |
| South Western Sydney | Fairfield | 1.6 | 1.9 | 4.6 | 1.8 | 0.0 |
| | Liverpool | 24.4 | 13.8 | 14.8 | 8.9 | 20.7 |
| | Campbelltown | 25.2 | 20.1 | 20.6 | 19.0 | 22.4 |
| | Bankstown-Lidcombe | 18.5 | 15.6 | 18.9 | 13.0 | 19.7 |
| | Bowral | 10.5 | 5.4 | 15.2 | 4.2 | 10.3 |
| | TOTAL | 19.7 | 14.2 | 16.0 | 11.7 | 18.1 |
| South Eastern Sydney | St. George | 18.3 | 14.6 | 17.9 | 13.3 | 13.3 |
| | Sutherland | 0.0 | 0.0 | 3.4 | 1.2 | 1.3 |
| | Royal Hospital for Women | 10.4 | 12.0 | 9.7 | 10.5 | 10.4 |
| | TOTAL | 12.2 | 11.6 | 11.9 | 10.4 | 10.4 |
| Illawarra Shoalhaven | Shoalhaven | 14.3 | 16.1 | 19.8 | 6.8 | 7.4 |
| | Wollongong | 15.6 | 12.3 | 13.6 | 10.2 | 14.9 |
| | TOTAL | 14.9 | 13.5 | 15.5 | 9.3 | 13.1 |
| Western Sydney | Auburn | 1.2 | 2.8 | 1.2 | 2.6 | 4.9 |
| | Blacktown | 11.8 | 13.0 | 11.0 | 9.9 | 12.4 |
| | Westmead | 14.3 | 15.9 | 15.1 | 15.0 | 12.4 |
| | TOTAL | 12.4 | 14.0 | 12.7 | 12.5 | 11.9 |
| Nepean Blue Mountains | Blue Mountains | 0.0 | 12.5 | 6.5 | 0.0 | 0.0 |
| | Nepean | 10.3 | 12.0 | 9.3 | 12.7 | 12.1 |
| | Hawkesbury | 12.0 | 10.7 | 5.1 | 14.4 | 14.4 |
| | TOTAL | 10.0 | 11.6 | 8.5 | 11.9 | 11.4 |
| Northern Sydney | Hornsby | 12.5 | 12.9 | 14.4 | 13.0 | 15.4 |
| | Manly | 16.9 | 16.0 | 8.4 | 7.3 | 14.0 |
| | Mona Vale | 7.7 | 5.6 | 4.1 | 11.1 | 16.2 |
| | Royal North Shore | 12.5 | 10.0 | 12.1 | 8.8 | 12.3 |
| | TOTAL | 13.4 | 11.3 | 11.1 | 9.7 | 13.6 |
| Central Coast | Gosford | 9.0 | 14.2 | 11.9 | 12.9 | 13.4 |
| TOTAL | 9.0 | 14.2 | 11.9 | 12.9 | 13.4 | |
| Hunter New England | Armidale | 7.8 | 18.2 | 7.1 | 22.9 | 8.9 |
| | Inverell | 13.3 | 11.1 | 11.4 | 12.0 | 14.0 |
| | Tamworth Base | 14.8 | 18.9 | 4.3 | 10.0 | 15.6 |
| | Manning Base | 20.5 | 22.6 | 14.5 | 20.6 | 21.9 |
| | Maitland | 13.6 | 17.1 | 20.1 | 21.3 | 11.5 |
| | John Hunter | 18.1 | 19.4 | 17.8 | 14.3 | 14.8 |
| | Other hospitals | 23.1 | 11.5 | 12.0 | 10.0 | 3.7 |
| | TOTAL | 16.9 | 18.0 | 15.3 | 15.4 | 13.5 |
| Northern NSW | Grafton Base | 7.1 | 16.3 | 11.8 | 16.7 | 13.0 |
| | Lismore Base | 18.9 | 16.2 | 20.6 | 20.4 | 26.8 |
| | Tweed Heads | 16.4 | 21.1 | 35.2 | 11.1 | 18.9 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Other hospitals | | 0.0 | 0.0 | 0.0 | 0.0 | 25.0 |
| | TOTAL | 14.2 | 16.6 | 22.8 | 15.2 | 21.5 |
| Mid North Coast | Coffs Harbour | 14.3 | 5.9 | 5.8 | 6.7 | 6.3 |
| | Kempsey | 27.8 | 30.0 | 27.3 | 22.2 | 21.7 |
| | Port Macquarie Base | 18.2 | 15.9 | 17.9 | 11.0 | 12.5 |
| | TOTAL | 16.9 | 11.9 | 12.2 | 10.1 | 9.8 |
| Southern NSW | Bega | 15.4 | 5.3 | 18.8 | 8.7 | 13.3 |
| | Goulburn Base | 13.2 | 15.6 | 32.5 | 22.2 | 13.8 |
| | Moruya | 20.0 | 10.3 | 8.6 | 20.0 | 10.3 |
| | Queanbeyan | 6.7 | 3.2 | 11.8 | 0.0 | 7.3 |
| | TOTAL | 14.1 | 9.0 | 18.3 | 13.2 | 14.3 |
| Murrumbidgee | Griffith Base | 9.8 | 20.5 | 20.8 | 10.7 | 15.3 |
| | Wagga Wagga Base | 21.3 | 6.9 | 5.3 | 8.1 | 11.4 |
| | Other hospitals | 1.6 | 7.5 | 10.2 | 14.3 | 16.7 |
| | TOTAL | 11.9 | 10.1 | 10.4 | 10.5 | 13.4 |
| Western NSW | Dubbo Base | 13.3 | 17.8 | 9.7 | 13.8 | 11.2 |
| | Mudgee | 8.7 | 3.7 | 4.3 | 4.8 | 7.7 |
| | Bathurst Base | 18.5 | 12.0 | 8.8 | 19.0 | 11.1 |
| | Orange Base | 9.5 | 13.2 | 14.5 | 12.3 | 18.5 |
| | TOTAL | 14.3 | 12.8 | 13.3 | 14.1 | 14.4 |
| Far West | Broken Hill Base | 8.3 | 16.0 | 6.7 | 15.8 | 8.7 |
| | TOTAL | 8.3 | 16.0 | 6.7 | 15.8 | 8.7 |
| Private Hospitals | Mater, North Sydney | 5.3 | 5.7 | 1.9 | 4.1 | 4.4 |
| | North Shore Private | 5.9 | 5.1 | 4.5 | 6.0 | 2.8 |
| | Sydney Adventist | 7.5 | 8.8 | 7.3 | 5.3 | 5.7 |
| | North Gosford Private | 5.9 | 7.9 | 7.7 | 5.5 | 5.1 |
| | Hurstville Community | 3.5 | 5.2 | 5.6 | 4.7 | 5.6 |
| | Kareena Private | 3.2 | 7.9 | 4.7 | 3.1 | 7.1 |
| | St. George Private | 3.9 | 4.7 | 3.5 | 4.3 | 3.7 |
| | Prince of Wales Private | 1.9 | 2.8 | 2.5 | 2.8 | 1.5 |
| | Norwest Private | 7.4 | 5.0 | 5.9 | 5.6 | 5.6 |
| | Sydney Southwest Private | 1.8 | 0.8 | 1.4 | 0.0 | 0.9 |
| | Nepean Private | 5.6 | 5.2 | 6.0 | 4.7 | 7.1 |
| | Westmead Private | 6.0 | 5.0 | 3.8 | 5.4 | 3.4 |
| | Wollongong Private | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 |
| | Newcastle Private | 10.9 | 5.6 | 6.5 | 3.3 | 6.3 |
| | Calvary, Wagga Wagga | 8.3 | 5.7 | 0.0 | 3.3 | 1.1 |
| | TOTAL | 5.6 | 5.2 | 4.3 | 4.4 | 4.1 |
| TOTAL NSW* | 11.0 | 10.8 | 10.2 | 9.6 | 10.5 | |

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

Hospitals with more than 200 births in 2016 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 (other than superficial grazes) while giving birth vaginally as a percentage of the total number of selected primipara delivering vaginally.

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

Table 61 shows information for hospitals where at least 200 mothers gave birth in 2016, 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 2012–2016*

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 9.5 | 10.5 | 6.2 | 7.0 | 5.4 |
| | Royal Prince Alfred | 12.0 | 9.6 | 8.8 | 8.0 | 7.8 |
| | TOTAL | 11.5 | 9.8 | 8.2 | 7.7 | 7.3 |
| South Western Sydney | Fairfield | 23.4 | 24.6 | 21.0 | 19.3 | 13.1 |
| | Liverpool | 13.0 | 11.4 | 15.4 | 12.1 | 10.8 |
| | Campbelltown | 22.0 | 23.6 | 20.4 | 20.0 | 10.7 |
| | Bankstown-Lidcombe | 13.2 | 14.9 | 14.7 | 14.0 | 7.5 |
| | Bowral | 20.6 | 28.3 | 21.3 | 18.9 | 17.1 |
| | TOTAL | 17.9 | 18.8 | 17.9 | 16.2 | 10.8 |
| South Eastern Sydney | St. George | 12.2 | 9.9 | 8.3 | 8.0 | 5.0 |
| | Sutherland | 21.7 | 13.0 | 11.9 | 10.2 | 5.2 |
| | Royal Hospital for Women | 12.6 | 11.4 | 9.6 | 11.9 | 10.3 |
| | TOTAL | 13.9 | 11.2 | 9.6 | 10.4 | 7.6 |
| Illawarra Shoalhaven | Shoalhaven | 35.5 | 40.1 | 38.4 | 43.0 | 21.4 |
| | Wollongong | 12.7 | 13.7 | 10.1 | 12.6 | 8.0 |
| | Other hospitals | 20.8 | 25.0 | 40.0 | 33.3 | 0.0 |
| | TOTAL | 19.0 | 20.7 | 18.1 | 20.1 | 11.1 |
| Western Sydney | Auburn | 15.3 | 16.2 | 10.3 | 11.3 | 5.6 |
| | Blacktown | 10.0 | 6.8 | 6.3 | 9.1 | 4.4 |
| | Westmead | 9.0 | 7.3 | 7.7 | 6.5 | 5.2 |
| | TOTAL | 10.4 | 8.6 | 7.7 | 8.0 | 5.0 |
| Nepean Blue Mountains | Blue Mountains | 36.7 | 15.4 | 19.6 | 24.5 | 10.3 |
| | Nepean | 15.0 | 12.1 | 10.5 | 11.9 | 7.5 |
| | Hawkesbury | 26.4 | 25.5 | 28.1 | 23.3 | 21.1 |
| | TOTAL | 18.2 | 14.8 | 14.3 | 14.4 | 9.4 |
| Northern Sydney | Hornsby | 14.4 | 15.4 | 11.4 | 9.5 | 5.6 |
| | Manly | 17.6 | 11.0 | 15.6 | 12.7 | 9.4 |
| | Mona Vale | 27.0 | 15.3 | 22.1 | 23.8 | 15.9 |
| | Royal North Shore | 9.5 | 9.3 | 7.2 | 9.2 | 6.2 |
| | Other hospitals | 35.9 | 51.6 | 48.6 | 34.3 | 46.2 |
| | TOTAL | 13.9 | 12.5 | 12.3 | 12.2 | 8.5 |
| Central Coast | Gosford | 16.8 | 9.6 | 11.7 | 12.1 | 8.6 |
| | Other hospitals | 51.4 | 49.0 | 44.8 | 28.1 | 25.7 |
| | TOTAL | 19.1 | 13.0 | 13.3 | 12.8 | 9.6 |
| Hunter New England | Armidale | 24.2 | 24.6 | 16.4 | 28.4 | 18.8 |
| | Inverell | 23.1 | 42.9 | 37.8 | 32.5 | 40.0 |
| | Tamworth Base | 17.2 | 21.1 | 18.1 | 14.1 | 13.7 |
| | Manning Base | 26.4 | 30.3 | 20.1 | 21.3 | 19.0 |
| | Maitland | 20.2 | 24.3 | 22.4 | 19.2 | 13.9 |
| | John Hunter | 14.4 | 12.6 | 11.8 | 13.1 | 9.9 |
| | Other hospitals | 32.4 | 28.8 | 26.2 | 27.1 | 27.6 |
| | TOTAL | 19.9 | 19.9 | 17.4 | 17.6 | 15.1 |
| Northern NSW | Grafton Base | 43.4 | 39.4 | 39.3 | 35.4 | 35.9 |
| | Lismore Base | 20.7 | 25.7 | 27.8 | 27.5 | 15.4 |
| | Tweed Heads | 24.5 | 25.5 | 17.3 | 11.0 | 15.7 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Other hospitals | | 34.0 | 42.9 | 46.7 | 50.9 | 32.3 |
| | TOTAL | 26.3 | 28.0 | 26.5 | 22.0 | 19.7 |
| Mid North Coast | Coffs Harbour | 16.2 | 14.4 | 15.3 | 15.6 | 16.5 |
| | Kempsey | 30.6 | 36.1 | 31.8 | 25.6 | 27.1 |
| | Port Macquarie Base | 15.7 | 20.1 | 8.5 | 12.2 | 10.5 |
| | Other hospitals | 33.3 | 33.3 | 36.4 | 25.0 | 50.0 |
| | TOTAL | 17.8 | 19.2 | 15.5 | 15.7 | 16.1 |
| Southern NSW | Bega | 27.0 | 37.8 | 28.8 | 24.4 | 16.7 |
| | Goulburn Base | 12.1 | 14.3 | 12.0 | 12.3 | 11.1 |
| | Moruya | 34.9 | 32.7 | 32.6 | 35.4 | 21.2 |
| | Queanbeyan | 33.3 | 29.8 | 35.3 | 29.9 | 26.2 |
| | TOTAL | 29.0 | 29.9 | 31.6 | 31.0 | 26.0 |
| Murrumbidgee | Griffith Base | 28.0 | 34.9 | 28.8 | 32.1 | 24.0 |
| | Wagga Wagga Base | 23.0 | 25.8 | 25.8 | 20.3 | 17.4 |
| | Other hospitals | 32.6 | 43.3 | 37.3 | 31.1 | 32.2 |
| | TOTAL | 27.2 | 34.1 | 30.4 | 26.4 | 22.6 |
| Western NSW | Dubbo Base | 33.1 | 23.5 | 25.7 | 23.5 | 17.8 |
| | Mudgee | 22.1 | 21.7 | 25.0 | 23.6 | 21.1 |
| | Bathurst Base | 26.0 | 23.2 | 17.6 | 23.3 | 11.9 |
| | Orange Base | 19.6 | 14.2 | 12.1 | 16.5 | 10.8 |
| | Other hospitals | 37.4 | 27.4 | 28.8 | 39.5 | 20.0 |
| | TOTAL | 27.1 | 20.9 | 20.9 | 23.2 | 15.6 |
| Far West | Broken Hill Base | 31.4 | 21.2 | 45.3 | 47.1 | 45.5 |
| | TOTAL | 31.4 | 21.2 | 45.3 | 47.1 | 45.5 |
| Private Hospitals | Mater, North Sydney | 11.7 | 15.1 | 13.9 | 11.1 | 7.0 |
| | North Shore Private | 12.2 | 12.4 | 12.5 | 10.0 | 5.2 |
| | Sydney Adventist | 11.9 | 14.2 | 10.7 | 12.5 | 10.3 |
| | North Gosford Private | 19.5 | 11.9 | 11.3 | 11.0 | 9.3 |
| | Hurstville Community | 9.7 | 11.3 | 12.1 | 10.2 | 15.8 |
| | Kareena Private | 11.6 | 7.8 | 7.2 | 9.4 | 6.7 |
| | St. George Private | 12.4 | 8.9 | 8.2 | 10.4 | 7.3 |
| | Prince of Wales Private | 10.8 | 12.3 | 11.0 | 11.0 | 6.4 |
| | Norwest Private | 7.9 | 12.3 | 12.0 | 12.7 | 5.5 |
| | Sydney Southwest Private | 12.2 | 10.0 | 12.8 | 6.9 | 5.9 |
| | Nepean Private | 9.9 | 6.3 | 3.8 | 5.9 | 1.3 |
| | Westmead Private | 6.2 | 3.0 | 4.7 | 6.1 | 2.3 |
| | Wollongong Private | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 |
| | Newcastle Private | 17.7 | 13.8 | 17.2 | 8.7 | 4.9 |
| | Calvary, Wagga Wagga | 4.7 | 11.1 | 14.5 | 15.9 | 12.7 |
| | Other hospitals | 9.3 | 4.8 | 5.2 | 6.3 | 0.0 |
| | TOTAL | 11.2 | 10.7 | 10.7 | 9.8 | 6.2 |
| TOTAL NSW* | | 15.6 | 14.7 | 13.7 | 13.4 | 9.7 |

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

Hospitals with more than 200 births in 2016 are identified individually

* Total NSW includes births at home assisted by independent midwives

Indicator 3.2

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

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

Table 62 shows information for hospitals where at least 200 mothers gave birth in 2016, 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 2012–2016^a

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 24.5 | 28.9 | 36.4 | 39.9 | 43.2 |
| | Royal Prince Alfred | 20.3 | 23.5 | 27.1 | 25.0 | 24.4 |
| | TOTAL | 21.2 | 24.7 | 29.3 | 28.6 | 28.4 |
| South Western Sydney | Fairfield | 25.0 | 24.6 | 30.7 | 31.1 | 31.6 |
| | Liverpool | 30.7 | 33.2 | 30.4 | 32.4 | 28.1 |
| | Campbelltown | 21.3 | 19.1 | 24.1 | 27.2 | 31.3 |
| | Bankstown-Lidcombe | 31.5 | 31.5 | 31.8 | 30.5 | 41.0 |
| | Bowral | 24.5 | 17.7 | 33.3 | 32.2 | 34.2 |
| | TOTAL | 26.9 | 26.5 | 29.1 | 30.2 | 32.0 |
| South Eastern Sydney | St. George | 19.4 | 25.1 | 31.2 | 32.4 | 32.9 |
| | Sutherland | 21.1 | 23.5 | 32.0 | 36.8 | 32.3 |
| | Royal Hospital for Women | 28.5 | 27.8 | 32.1 | 27.9 | 20.7 |
| | TOTAL | 24.3 | 26.2 | 31.8 | 30.8 | 26.7 |
| Illawarra Shoalhaven | Shoalhaven | 24.6 | 27.8 | 18.9 | 22.7 | 25.2 |
| | Wollongong | 16.0 | 20.6 | 26.3 | 25.6 | 25.0 |
| | Other hospitals | 4.2 | 4.2 | 0.0 | 33.3 | 0.0 |
| | TOTAL | 17.8 | 21.8 | 23.7 | 24.9 | 25.0 |
| Western Sydney | Auburn | 21.3 | 27.7 | 26.3 | 32.0 | 27.9 |
| | Blacktown | 37.8 | 32.8 | 39.1 | 40.4 | 33.0 |
| | Westmead | 36.0 | 37.9 | 42.7 | 43.5 | 38.8 |
| | TOTAL | 33.9 | 34.9 | 39.3 | 40.8 | 35.5 |
| Nepean Blue Mountains | Blue Mountains | 4.1 | 2.6 | 8.9 | 8.2 | 10.3 |
| | Nepean | 24.7 | 28.1 | 22.5 | 30.0 | 22.9 |
| | Hawkesbury | 26.4 | 26.2 | 23.0 | 32.9 | 18.7 |
| | Lithgow | 18.8 | 32.5 | 17.2 | 35.7 | 11.1 |
| | TOTAL | 23.5 | 26.8 | 21.5 | 29.5 | 21.2 |
| Northern Sydney | Hornsby | 16.8 | 14.0 | 17.7 | 22.4 | 15.9 |
| | Manly | 22.9 | 22.0 | 19.8 | 24.6 | 24.4 |
| | Mona Vale | 13.5 | 20.0 | 12.7 | 11.0 | 19.0 |
| | Royal North Shore | 25.2 | 25.9 | 27.2 | 25.1 | 24.9 |
| | Other hospitals | 2.6 | 3.2 | 2.7 | 0.0 | 0.0 |
| | TOTAL | 21.7 | 21.5 | 21.7 | 22.2 | 21.9 |
| Central Coast | Gosford | 15.6 | 23.2 | 21.5 | 22.4 | 18.0 |
| | Other hospitals | 0.0 | 0.0 | 3.4 | 0.0 | 2.9 |
| | TOTAL | 14.5 | 21.3 | 20.6 | 21.3 | 17.1 |
| Hunter New England | Armidale | 25.3 | 17.4 | 42.6 | 31.1 | 18.8 |
| | Inverell | 51.3 | 28.6 | 37.8 | 50.0 | 40.0 |
| | Tamworth Base | 17.9 | 26.3 | 27.5 | 27.7 | 26.4 |
| | Manning Base | 12.5 | 15.9 | 9.0 | 18.0 | 15.7 |
| | Maitland | 17.6 | 12.3 | 11.5 | 15.0 | 17.2 |
| | John Hunter | 18.7 | 23.1 | 22.0 | 19.5 | 18.3 |
| | Other hospitals | 16.0 | 16.3 | 17.3 | 13.3 | 14.0 |
| | TOTAL | 18.6 | 19.9 | 20.2 | 19.9 | 18.8 |
| Northern NSW | Grafton Base | 18.4 | 15.5 | 10.1 | 7.7 | 15.4 |
| | Lismore Base | 17.3 | 23.7 | 19.4 | 17.4 | 24.3 |
| | Tweed Heads | 16.0 | 13.1 | 17.7 | 20.1 | 14.6 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Other hospitals | | 3.0 | 1.8 | 1.7 | 0.0 | 6.2 |
| TOTAL | | 15.1 | 15.9 | 15.7 | 16.3 | 17.1 |
| Mid North Coast | Coffs Harbour | 17.1 | 18.3 | 20.8 | 18.6 | 29.4 |
| | Kempsey | 5.6 | 8.3 | 9.1 | 12.8 | 6.3 |
| | Port Macquarie Base | 13.7 | 17.8 | 20.9 | 27.3 | 21.8 |
| | Other hospitals | 8.3 | 16.7 | 0.0 | 0.0 | 0.0 |
| TOTAL | | 14.6 | 17.1 | 18.9 | 20.6 | 23.5 |
| Southern NSW | Bega | 10.8 | 17.8 | 13.5 | 8.9 | 18.8 |
| | Goulburn Base | 59.1 | 52.4 | 40.0 | 45.6 | 40.0 |
| | Moruya | 12.7 | 14.3 | 15.2 | 14.6 | 19.2 |
| | Queanbeyan | 12.0 | 12.1 | 17.2 | 15.0 | 20.6 |
| | Other hospitals | 16.1 | 7.4 | 10.9 | 2.2 | 4.9 |
| TOTAL | | 22.3 | 21.1 | 19.0 | 17.8 | 20.8 |
| Murrumbidgee | Griffith Base | 29.0 | 18.3 | 26.3 | 17.9 | 22.1 |
| | Wagga Wagga Base | 16.3 | 13.7 | 18.4 | 27.5 | 24.2 |
| | Other hospitals | 23.6 | 12.5 | 11.1 | 19.8 | 18.4 |
| | TOTAL | 22.4 | 14.8 | 17.6 | 22.8 | 22.3 |
| Western NSW | Dubbo Base | 24.4 | 28.1 | 33.0 | 30.5 | 24.4 |
| | Mudgee | 14.7 | 16.7 | 20.8 | 23.6 | 24.6 |
| | Bathurst Base | 10.6 | 11.1 | 25.5 | 17.2 | 16.5 |
| | Orange Base | 19.1 | 18.6 | 25.4 | 22.5 | 22.2 |
| | Other hospitals | 15.4 | 17.8 | 13.8 | 11.8 | 17.8 |
| | TOTAL | 18.1 | 20.1 | 26.1 | 23.0 | 21.7 |
| Far West | Broken Hill Base | 14.3 | 30.3 | 22.6 | 15.7 | 4.5 |
| | TOTAL | 14.3 | 30.3 | 22.6 | 15.7 | 4.5 |
| Private Hospitals | Mater, North Sydney | 42.5 | 37.9 | 37.9 | 39.4 | 45.6 |
| | North Shore Private | 40.1 | 32.0 | 36.8 | 31.9 | 34.8 |
| | Sydney Adventist | 31.8 | 32.7 | 38.4 | 30.4 | 42.6 |
| | North Gosford Private | 35.9 | 46.3 | 52.2 | 35.2 | 35.6 |
| | Hurstville Community | 39.5 | 42.3 | 38.6 | 34.4 | 29.1 |
| | Kareena Private | 29.7 | 31.2 | 31.7 | 26.6 | 34.1 |
| | St. George Private | 27.4 | 27.2 | 25.8 | 30.2 | 23.8 |
| | Prince of Wales Private | 31.6 | 41.7 | 45.2 | 40.5 | 34.6 |
| | Norwest Private | 30.3 | 36.4 | 35.5 | 42.7 | 33.5 |
| | Sydney Southwest Private | 52.2 | 51.3 | 49.7 | 54.3 | 49.0 |
| | Nepean Private | 53.9 | 57.0 | 60.0 | 53.3 | 52.3 |
| | Westmead Private | 66.8 | 63.5 | 64.6 | 66.3 | 63.7 |
| | Wollongong Private | 0.0 | 0.0 | 0.0 | 0.0 | 57.4 |
| | Newcastle Private | 25.2 | 13.4 | 15.3 | 12.5 | 15.3 |
| | Calvary, Wagga Wagga | 42.4 | 44.4 | 36.2 | 29.0 | 32.7 |
| | Other hospitals | 48.3 | 54.1 | 49.4 | 52.9 | 0.0 |
| | TOTAL | | 39.2 | 39.0 | 40.4 | 38.9 |
| TOTAL NSW^b | | 26.7 | 27.7 | 29.8 | 30.0 | 28.7 |

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

^a Hospitals with more than 200 births in 2016 are identified individually

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

Indicator 3.3

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

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

Table 63 shows information for hospitals where at least 200 mothers gave birth in 2016, 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 2012–2016^a

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 58.6 | 59.2 | 51.4 | 48.1 | 42.4 |
| | Royal Prince Alfred | 65.5 | 60.9 | 56.9 | 61.7 | 63.2 |
| | TOTAL | 64.1 | 60.5 | 55.6 | 58.4 | 58.8 |
| South Western Sydney | Fairfield | 58.0 | 54.2 | 50.8 | 53.6 | 53.9 |
| | Liverpool | 54.8 | 53.9 | 53.0 | 51.0 | 59.8 |
| | Campbelltown | 63.6 | 63.7 | 61.5 | 57.2 | 58.5 |
| | Bankstown-Lidcombe | 51.4 | 47.8 | 47.6 | 49.9 | 43.3 |
| | Bowral | 58.8 | 58.4 | 43.5 | 50.0 | 56.6 |
| | TOTAL | 57.2 | 55.8 | 53.5 | 53.1 | 55.5 |
| South Eastern Sydney | St. George | 55.8 | 56.1 | 51.0 | 52.6 | 48.2 |
| | Sutherland | 58.9 | 57.8 | 49.9 | 47.8 | 50.9 |
| | Royal Hospital for Women | 55.2 | 57.5 | 53.7 | 55.7 | 62.2 |
| | TOTAL | 56.0 | 57.1 | 52.2 | 53.4 | 55.6 |
| Illawarra Shoalhaven | Shoalhaven | 60.1 | 56.2 | 63.4 | 51.7 | 62.9 |
| | Wollongong | 72.0 | 61.8 | 61.9 | 59.1 | 61.9 |
| | Other hospitals | 75.0 | 75.0 | 80.0 | 33.3 | 0.0 |
| | TOTAL | 69.0 | 60.9 | 62.7 | 57.2 | 62.2 |
| Western Sydney | Auburn | 64.5 | 57.7 | 60.9 | 51.9 | 52.9 |
| | Blacktown | 46.6 | 50.7 | 44.6 | 44.4 | 44.3 |
| | Westmead | 47.6 | 43.5 | 35.9 | 39.4 | 38.6 |
| | TOTAL | 50.3 | 47.7 | 42.0 | 42.8 | 42.4 |
| Nepean Blue Mountains | Blue Mountains | 73.5 | 87.2 | 69.6 | 73.5 | 77.6 |
| | Nepean | 59.2 | 56.0 | 62.5 | 54.1 | 57.4 |
| | Hawkesbury | 56.8 | 56.7 | 61.5 | 50.0 | 63.4 |
| | Lithgow | 53.1 | 52.5 | 62.1 | 54.8 | 75.0 |
| | TOTAL | 59.5 | 57.5 | 62.8 | 54.5 | 60.1 |
| Northern Sydney | Hornsby | 65.0 | 69.6 | 70.9 | 58.3 | 63.8 |
| | Manly | 57.5 | 59.6 | 58.9 | 53.6 | 58.5 |
| | Mona Vale | 67.6 | 66.0 | 69.6 | 70.3 | 64.1 |
| | Royal North Shore | 57.7 | 55.6 | 55.1 | 57.3 | 55.1 |
| | Other hospitals | 82.1 | 96.8 | 81.1 | 88.6 | 88.5 |
| | TOTAL | 60.3 | 61.4 | 61.2 | 59.2 | 59.0 |
| Central Coast | Gosford | 64.9 | 57.4 | 59.9 | 60.6 | 65.8 |
| | Other hospitals | 73.0 | 86.3 | 86.2 | 87.5 | 94.3 |
| | TOTAL | 65.4 | 59.8 | 61.1 | 61.9 | 67.4 |
| Hunter New England | Armidale | 53.5 | 65.2 | 41.0 | 52.7 | 68.8 |
| | Inverell | 30.8 | 57.1 | 45.9 | 35.0 | 50.0 |
| | Tamworth Base | 62.3 | 59.3 | 54.9 | 57.6 | 55.8 |
| | Manning Base | 69.4 | 66.7 | 72.4 | 63.9 | 66.9 |
| | Maitland | 67.4 | 70.8 | 70.7 | 69.4 | 71.4 |
| | John Hunter | 65.6 | 61.9 | 63.0 | 65.1 | 65.6 |
| | Other hospitals | 62.9 | 60.1 | 64.4 | 65.2 | 67.9 |
| | TOTAL | 64.2 | 63.4 | 63.3 | 63.9 | 65.6 |
| Northern NSW | Grafton Base | 56.6 | 56.3 | 73.0 | 73.8 | 69.2 |
| | Lismore Base | 67.9 | 59.3 | 69.0 | 69.1 | 61.2 |
| | Tweed Heads | 67.7 | 69.9 | 62.5 | 67.1 | 71.8 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Other hospitals | | 81.0 | 78.6 | 91.7 | 80.0 | 86.2 |
| | TOTAL | 68.3 | 65.9 | 68.8 | 69.5 | 69.4 |
| Mid North Coast | Coffs Harbour | 63.3 | 65.0 | 67.3 | 68.3 | 57.2 |
| | Kempsey | 77.8 | 69.4 | 77.3 | 69.2 | 77.1 |
| | Port Macquarie Base | 63.4 | 63.9 | 65.9 | 49.6 | 69.2 |
| | Other hospitals | 75.0 | 66.7 | 100.0 | 83.3 | 100.0 |
| | TOTAL | 65.0 | 65.0 | 68.9 | 62.2 | 64.4 |
| Southern NSW | Bega | 78.4 | 60.0 | 57.7 | 68.9 | 64.6 |
| | Goulburn Base | 24.2 | 30.2 | 46.0 | 42.1 | 46.7 |
| | Moruya | 49.2 | 69.4 | 71.7 | 62.5 | 75.0 |
| | Queanbeyan | 70.1 | 67.7 | 50.9 | 74.8 | 63.5 |
| | Other hospitals | 54.8 | 63.0 | 60.9 | 71.7 | 63.4 |
| TOTAL | 55.7 | 58.8 | 55.8 | 65.3 | 63.1 | |
| Murrumbidgee | Griffith Base | 52.3 | 65.1 | 56.3 | 66.7 | 60.6 |
| | Wagga Wagga Base | 63.7 | 67.7 | 61.3 | 55.6 | 58.9 |
| | Other hospitals | 46.1 | 55.8 | 59.5 | 55.7 | 58.6 |
| | TOTAL | 55.3 | 63.2 | 59.6 | 58.2 | 59.3 |
| Western NSW | Dubbo Base | 51.7 | 49.5 | 44.7 | 54.5 | 62.0 |
| | Mudgee | 67.6 | 75.0 | 58.3 | 65.5 | 64.9 |
| | Bathurst Base | 72.1 | 76.8 | 63.7 | 66.4 | 66.1 |
| | Orange Base | 57.3 | 61.7 | 57.2 | 58.0 | 54.5 |
| | Other hospitals | 61.5 | 61.6 | 58.8 | 67.1 | 62.2 |
| | TOTAL | 59.9 | 61.5 | 54.4 | 60.0 | 61.0 |
| Far West | Broken Hill Base | 71.4 | 51.5 | 66.0 | 76.5 | 81.8 |
| | TOTAL | 71.4 | 51.5 | 66.0 | 76.5 | 81.8 |
| Private Hospitals | Mater, North Sydney | 34.8 | 38.8 | 38.6 | 42.6 | 47.4 |
| | North Shore Private | 46.1 | 53.5 | 45.2 | 56.2 | 50.6 |
| | Sydney Adventist | 57.0 | 51.9 | 48.9 | 55.4 | 47.1 |
| | North Gosford Private | 37.5 | 35.8 | 28.7 | 40.7 | 39.8 |
| | Hurstville Community | 47.6 | 43.7 | 44.7 | 50.8 | 57.6 |
| | Kareena Private | 58.1 | 56.0 | 56.1 | 63.3 | 52.6 |
| | St. George Private | 60.2 | 62.1 | 64.6 | 59.4 | 65.7 |
| | Prince of Wales Private | 50.4 | 40.3 | 35.9 | 36.7 | 39.6 |
| | Norwest Private | 53.7 | 43.9 | 40.1 | 35.0 | 39.9 |
| | Sydney Southwest Private | 32.2 | 37.0 | 27.2 | 28.0 | 30.2 |
| | Nepean Private | 28.3 | 28.2 | 25.0 | 26.3 | 27.1 |
| | Westmead Private | 24.9 | 28.5 | 25.9 | 23.1 | 27.8 |
| | Wollongong Private | 0.0 | 0.0 | 0.0 | 0.0 | 35.3 |
| | Newcastle Private | 59.7 | 62.4 | 50.2 | 55.8 | 52.9 |
| | Calvary, Wagga Wagga | 42.4 | 37.0 | 46.4 | 46.4 | 49.1 |
| | Other hospitals | 40.9 | 38.6 | 43.6 | 38.5 | 0.0 |
| | TOTAL | 46.0 | 45.2 | 41.4 | 43.6 | 44.2 |
| TOTAL NSW^a | 56.6 | 55.4 | 53.0 | 53.5 | 54.8 | |

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
^a Hospitals with more than 200 births in 2016 are identified individually
^{*} Total NSW includes births at home assisted by independent midwives

Indicator 3.4

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

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

Table 64 shows information for hospitals where at least 200 mothers gave birth in 2016, 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 2012–2016*

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 6.43 | 4.53 | 6.87 | 6.57 | 9.82 |
| | Royal Prince Alfred | 6.38 | 8.68 | 9.83 | 8.20 | 6.61 |
| | TOTAL | 6.39 | 7.77 | 9.14 | 7.80 | 7.30 |
| South Western Sydney | Fairfield | 1.92 | 3.63 | 2.47 | 2.96 | 4.04 |
| | Liverpool | 5.60 | 4.53 | 4.43 | 5.52 | 4.43 |
| | Campbelltown | 1.94 | 3.16 | 1.77 | 1.68 | 2.20 |
| | Bankstown-Lidcombe | 8.09 | 7.91 | 6.51 | 8.75 | 7.73 |
| | Bowral | 0.98 | 1.77 | 1.85 | 2.22 | 2.63 |
| | TOTAL | 4.22 | 4.55 | 3.67 | 4.48 | 4.11 |
| South Eastern Sydney | St. George | 15.99 | 13.30 | 13.76 | 9.72 | 16.64 |
| | Sutherland | 7.78 | 10.23 | 10.85 | 8.33 | 13.58 |
| | Royal Hospital for Women | 8.53 | 7.76 | 9.14 | 9.08 | 12.21 |
| | TOTAL | 10.88 | 9.93 | 10.91 | 9.15 | 13.88 |
| Illawarra Shoalhaven | Shoalhaven | 2.19 | 1.23 | 1.83 | 4.65 | 5.03 |
| | Wollongong | 5.11 | 7.94 | 5.03 | 6.03 | 9.28 |
| | Other hospitals | 8.33 | 4.17 | 0.00 | 0.00 | 0.00 |
| | TOTAL | 4.45 | 6.13 | 4.09 | 5.67 | 8.30 |
| Western Sydney | Auburn | 7.55 | 8.09 | 7.43 | 9.94 | 16.43 |
| | Blacktown | 7.77 | 13.00 | 12.01 | 10.14 | 21.36 |
| | Westmead | 10.67 | 13.98 | 16.10 | 13.25 | 20.23 |
| | TOTAL | 9.34 | 12.76 | 13.71 | 11.85 | 20.00 |
| Nepean Blue Mountains | Blue Mountains | 2.04 | 5.13 | 1.79 | 8.16 | 6.90 |
| | Nepean | 9.06 | 8.10 | 10.39 | 9.47 | 17.74 |
| | Hawkesbury | 6.40 | 3.55 | 2.22 | 4.11 | 10.57 |
| | Lithgow | 12.50 | 10.00 | 6.90 | 9.52 | 11.11 |
| | TOTAL | 8.33 | 7.25 | 8.44 | 8.49 | 15.89 |
| Northern Sydney | Hornsby | 10.18 | 8.03 | 4.01 | 12.20 | 18.27 |
| | Manly | 10.20 | 12.65 | 12.55 | 13.49 | 14.96 |
| | Mona Vale | 5.41 | 6.67 | 7.84 | 6.98 | 8.72 |
| | Royal North Shore | 11.66 | 14.97 | 14.06 | 13.56 | 17.75 |
| | Other hospitals | 2.56 | 0.00 | 2.70 | 0.00 | 3.85 |
| | TOTAL | 10.53 | 11.80 | 10.84 | 12.16 | 16.03 |
| Central Coast | Gosford | 10.18 | 13.79 | 12.39 | 10.63 | 12.61 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 3.13 | 2.86 |
| | TOTAL | 9.48 | 12.62 | 11.79 | 10.27 | 12.05 |
| Hunter New England | Armidale | 8.08 | 10.14 | 11.48 | 5.41 | 6.25 |
| | Inverell | 5.13 | 3.57 | 2.70 | 2.50 | 5.00 |
| | Tamworth Base | 8.61 | 4.64 | 8.24 | 6.81 | 12.18 |
| | Manning Base | 4.17 | 2.27 | 4.48 | 4.92 | 9.09 |
| | Maitland | 4.11 | 7.69 | 7.48 | 9.31 | 8.06 |
| | John Hunter | 9.54 | 9.04 | 9.87 | 9.82 | 13.57 |
| | Other hospitals | 5.09 | 8.15 | 3.96 | 8.57 | 5.35 |
| | TOTAL | 7.25 | 7.67 | 8.08 | 8.59 | 10.61 |
| | Northern NSW | Grafton Base | 1.32 | 2.82 | 3.37 | 3.08 |
| Lismore Base | | 5.91 | 6.32 | 3.70 | 6.28 | 6.07 |
| Tweed Heads | | 5.66 | 6.80 | 10.25 | 5.79 | 6.27 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|--------------|
| | | % | % | % | % | % |
| Other hospitals | | 3.00 | 0.00 | 0.00 | 1.82 | 0.00 |
| TOTAL | | 5.02 | 5.81 | 6.17 | 5.34 | 5.28 |
| Mid North Coast | Coffs Harbour | 10.00 | 6.67 | 6.44 | 7.54 | 7.22 |
| | Kempsey | 2.78 | 0.00 | 0.00 | 5.13 | 10.42 |
| | Port Macquarie Base | 11.11 | 10.06 | 8.53 | 12.95 | 7.52 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TOTAL | 9.49 | 7.42 | 6.22 | 9.00 | 7.65 |
| Southern NSW | Bega | 5.41 | 2.22 | 7.69 | 13.33 | 4.17 |
| | Goulburn Base | 4.55 | 7.94 | 6.00 | 1.75 | 2.22 |
| | Moruya | 3.17 | 0.00 | 8.70 | 8.33 | 0.00 |
| | Queanbeyan | 5.13 | 3.23 | 8.62 | 4.67 | 11.11 |
| | Other hospitals | 9.68 | 7.41 | 2.17 | 2.17 | 2.44 |
| TOTAL | 5.10 | 3.90 | 7.10 | 5.61 | 5.77 | |
| Murrumbidgee | Griffith Base | 5.61 | 1.83 | 7.50 | 3.85 | 8.65 |
| | Wagga Wagga Base | 5.93 | 5.65 | 6.75 | 11.11 | 13.16 |
| | Other hospitals | 4.49 | 5.77 | 6.35 | 7.55 | 9.20 |
| | TOTAL | 5.44 | 4.45 | 6.78 | 8.31 | 11.02 |
| Western NSW | Dubbo Base | 2.33 | 7.14 | 4.85 | 4.69 | 8.26 |
| | Mudgee | 4.41 | 3.33 | 6.25 | 3.64 | 1.75 |
| | Bathurst Base | 7.69 | 4.04 | 2.94 | 6.03 | 11.01 |
| | Orange Base | 14.57 | 15.30 | 13.29 | 11.50 | 17.61 |
| | Other hospitals | 3.30 | 6.85 | 6.25 | 6.58 | 10.00 |
| | TOTAL | 7.41 | 8.67 | 7.22 | 7.12 | 10.83 |
| Far West | Broken Hill Base | 5.71 | 9.09 | 1.89 | 1.96 | 4.55 |
| | TOTAL | 5.71 | 9.09 | 1.89 | 1.96 | 4.55 |
| Private Hospitals | Mater, North Sydney | 7.01 | 3.88 | 6.47 | 5.29 | 1.17 |
| | North Shore Private | 0.92 | 0.72 | 1.66 | 0.71 | 1.93 |
| | Sydney Adventist | 0.47 | 1.44 | 1.60 | 1.47 | 0.00 |
| | North Gosford Private | 3.13 | 2.24 | 3.48 | 9.66 | 6.78 |
| | Hurstville Community | 4.32 | 2.11 | 2.27 | 4.69 | 1.82 |
| | Kareena Private | 1.29 | 0.71 | 0.72 | 0.00 | 0.74 |
| | St. George Private | 0.59 | 0.26 | 0.80 | 0.00 | 0.29 |
| | Prince of Wales Private | 7.08 | 4.72 | 5.37 | 5.13 | 8.86 |
| | Norwest Private | 4.44 | 4.57 | 4.99 | 3.84 | 7.10 |
| | Sydney Southwest Private | 2.61 | 1.74 | 2.01 | 5.17 | 6.27 |
| | Nepean Private | 3.29 | 4.23 | 5.63 | 6.58 | 11.61 |
| | Westmead Private | 1.01 | 0.74 | 0.78 | 0.82 | 0.64 |
| | Wollongong Private | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Newcastle Private | 0.00 | 2.45 | 14.29 | 9.69 | 10.23 |
| | Calvary, Wagga Wagga | 2.35 | 1.85 | 4.35 | 2.90 | 0.00 |
| Other hospitals | 1.93 | 0.00 | 0.00 | 0.00 | 0.00 | |
| TOTAL | 2.73 | 2.22 | 3.93 | 3.60 | 3.85 | |
| TOTAL NSW* | | 6.56 | 7.09 | 7.68 | 7.38 | 9.93 |

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
 # Hospitals with more than 200 births in 2016 are identified individually
 * Total NSW includes births at home assisted by independent midwives

Indicator 3.5

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

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

Table 65 shows information for hospitals where at least 200 mothers gave birth in 2016, 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 2012–2016*

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 6.90 | 10.26 | 5.54 | 10.09 | 7.75 |
| | Royal Prince Alfred | 7.63 | 6.17 | 8.08 | 8.87 | 8.51 |
| | TOTAL | 7.48 | 7.08 | 7.49 | 9.17 | 8.35 |
| South Western Sydney | Fairfield | 7.69 | 8.87 | 6.79 | 5.93 | 8.08 |
| | Liverpool | 6.58 | 5.96 | 6.77 | 5.64 | 9.27 |
| | Campbelltown | 5.26 | 2.65 | 5.58 | 3.36 | 5.43 |
| | Bankstown-Lidcombe | 5.23 | 4.68 | 5.31 | 8.38 | 5.67 |
| | Bowral | 5.88 | 4.42 | 2.78 | 3.33 | 1.32 |
| | TOTAL | 6.14 | 5.21 | 5.97 | 5.45 | 6.97 |
| South Eastern Sydney | St. George | 11.01 | 9.12 | 11.80 | 6.94 | 10.24 |
| | Sutherland | 8.61 | 8.95 | 7.75 | 11.02 | 3.95 |
| | Royal Hospital for Women | 5.66 | 5.57 | 4.92 | 7.36 | 7.62 |
| | TOTAL | 7.89 | 7.29 | 7.60 | 7.87 | 7.78 |
| Illawarra Shoalhaven | Shoalhaven | 2.19 | 1.85 | 3.66 | 5.81 | 3.77 |
| | Wollongong | 7.57 | 3.43 | 4.60 | 3.58 | 5.30 |
| | Other hospitals | 0.00 | 4.17 | 0.00 | 0.00 | 0.00 |
| TOTAL | 5.89 | 3.07 | 4.25 | 4.11 | 4.95 | |
| Western Sydney | Auburn | 5.03 | 4.44 | 5.43 | 6.35 | 4.18 |
| | Blacktown | 4.93 | 8.72 | 4.93 | 5.53 | 5.52 |
| | Westmead | 5.92 | 6.99 | 4.80 | 6.04 | 4.38 |
| | TOTAL | 5.50 | 7.04 | 4.93 | 5.95 | 4.68 |
| Nepean Blue Mountains | Blue Mountains | 10.20 | 7.69 | 12.50 | 8.16 | 6.90 |
| | Nepean | 6.62 | 6.03 | 6.36 | 3.85 | 6.14 |
| | Hawkesbury | 6.40 | 4.96 | 4.44 | 1.37 | 7.32 |
| | Lithgow | 0.00 | 0.00 | 3.45 | 0.00 | 0.00 |
| | TOTAL | 6.54 | 5.63 | 6.36 | 3.49 | 6.11 |
| Northern Sydney | Hornsby | 7.49 | 5.02 | 8.36 | 9.15 | 6.31 |
| | Manly | 1.98 | 8.57 | 6.84 | 11.51 | 9.83 |
| | Mona Vale | 2.70 | 6.00 | 8.33 | 12.79 | 8.72 |
| | Royal North Shore | 9.51 | 11.73 | 10.84 | 8.08 | 8.29 |
| | Other hospitals | 2.56 | 0.00 | 2.70 | 0.00 | 0.00 |
| | TOTAL | 6.78 | 8.81 | 9.19 | 9.26 | 8.05 |
| Central Coast | Gosford | 7.19 | 9.62 | 6.98 | 7.30 | 4.84 |
| | Other hospitals | 0.00 | 5.88 | 6.90 | 3.13 | 0.00 |
| | TOTAL | 6.69 | 9.30 | 6.98 | 7.10 | 4.56 |
| Hunter New England | Armidale | 2.02 | 4.35 | 3.28 | 2.70 | 4.69 |
| | Inverell | 2.56 | 0.00 | 2.70 | 0.00 | 2.50 |
| | Tamworth Base | 3.97 | 5.15 | 5.49 | 4.19 | 4.06 |
| | Manning Base | 6.25 | 2.27 | 3.73 | 8.20 | 3.31 |
| | Maitland | 7.33 | 7.69 | 6.23 | 8.71 | 7.33 |
| | John Hunter | 8.09 | 8.06 | 10.11 | 8.62 | 9.05 |
| | Other hospitals | 4.73 | 3.86 | 4.46 | 3.81 | 4.12 |
| | TOTAL | 6.55 | 6.44 | 7.39 | 7.15 | 6.81 |
| Northern NSW | Grafton Base | 2.63 | 0.00 | 0.00 | 0.00 | 2.56 |
| | Lismore Base | 2.95 | 2.37 | 5.09 | 5.80 | 2.34 |
| | Tweed Heads | 4.25 | 5.58 | 5.65 | 5.49 | 5.23 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| | Other hospitals | 2.00 | 3.57 | 0.00 | 0.00 | 0.00 |
| | TOTAL | 3.46 | 3.91 | 4.17 | 4.58 | 3.42 |
| Mid North Coast | Coffs Harbour | 6.19 | 6.11 | 5.94 | 3.52 | 4.64 |
| | Kempsey | 0.00 | 5.56 | 4.55 | 5.13 | 10.42 |
| | Port Macquarie Base | 9.80 | 12.43 | 9.30 | 5.04 | 7.52 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TOTAL | 6.81 | 8.70 | 6.74 | 4.11 | 6.33 |
| Southern NSW | Bega | 5.41 | 4.44 | 5.77 | 4.44 | 2.08 |
| | Goulburn Base | 1.52 | 1.59 | 4.00 | 3.51 | 4.44 |
| | Moruya | 12.70 | 8.16 | 10.87 | 12.50 | 9.62 |
| | Queanbeyan | 0.00 | 3.23 | 4.31 | 3.74 | 7.94 |
| | Other hospitals | 6.45 | 7.41 | 4.35 | 4.35 | 0.00 |
| TOTAL | 4.14 | 4.22 | 5.48 | 5.28 | 5.77 | |
| Murrumbidgee | Griffith Base | 2.80 | 1.83 | 2.50 | 2.56 | 6.73 |
| | Wagga Wagga Base | 8.89 | 8.06 | 7.36 | 6.54 | 5.26 |
| | Other hospitals | 4.49 | 3.85 | 4.76 | 9.43 | 2.30 |
| | TOTAL | 5.74 | 4.75 | 5.42 | 6.53 | 4.99 |
| Western NSW | Dubbo Base | 4.65 | 2.04 | 3.40 | 4.23 | 3.72 |
| | Mudgee | 1.47 | 0.00 | 6.25 | 1.82 | 3.51 |
| | Bathurst Base | 9.62 | 4.04 | 5.88 | 6.90 | 6.42 |
| | Orange Base | 10.55 | 9.29 | 10.40 | 8.50 | 7.39 |
| | Other hospitals | 5.49 | 4.11 | 8.75 | 6.58 | 7.78 |
| | TOTAL | 7.10 | 4.58 | 6.73 | 6.06 | 5.64 |
| Far West | Broken Hill Base | 0.00 | 3.03 | 0.00 | 1.96 | 2.27 |
| | TOTAL | 0.00 | 3.03 | 0.00 | 1.96 | 2.27 |
| Private Hospitals | Mater, North Sydney | 2.34 | 1.83 | 2.16 | 4.50 | 1.46 |
| | North Shore Private | 1.15 | 1.91 | 1.11 | 2.38 | 2.79 |
| | Sydney Adventist | 0.47 | 0.72 | 0.91 | 1.96 | 0.00 |
| | North Gosford Private | 2.34 | 2.99 | 0.00 | 4.14 | 1.69 |
| | Hurstville Community | 2.16 | 1.41 | 2.27 | 1.56 | 1.21 |
| | Kareena Private | 1.29 | 3.55 | 2.16 | 1.44 | 2.22 |
| | St. George Private | 2.65 | 3.39 | 2.93 | 1.89 | 2.93 |
| | Prince of Wales Private | 0.88 | 2.36 | 0.85 | 2.05 | 2.49 |
| | Norwest Private | 2.22 | 2.91 | 3.39 | 2.16 | 3.10 |
| | Sydney Southwest Private | 3.04 | 2.61 | 2.01 | 3.45 | 1.96 |
| | Nepean Private | 1.97 | 2.82 | 0.63 | 3.95 | 5.81 |
| | Westmead Private | 0.40 | 0.93 | 0.58 | 0.82 | 0.85 |
| | Wollongong Private | 0.00 | 0.00 | 0.00 | 0.00 | 0.98 |
| | Newcastle Private | 3.10 | 5.12 | 5.67 | 5.67 | 7.42 |
| | Calvary, Wagga Wagga | 5.88 | 0.00 | 4.35 | 0.00 | 0.00 |
| | Other hospitals | 1.16 | 0.97 | 0.58 | 0.00 | 0.00 |
| TOTAL | 1.78 | 2.33 | 2.04 | 2.57 | 2.47 | |
| TOTAL NSW* | | 5.43 | 5.53 | 5.64 | 5.78 | 5.65 |

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

Hospitals with more than 200 births in 2016 are identified individually

* Total NSW includes births at home assisted by independent midwives

Indicator 3.6

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

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

Table 66 shows information for hospitals where at least 200 mothers gave birth in 2016, 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 2012–2016^a

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 0.24 | 0.95 | 0.22 | 0.00 | 0.52 |
| | Royal Prince Alfred | 0.50 | 0.34 | 0.34 | 0.30 | 0.14 |
| | TOTAL | 0.45 | 0.48 | 0.31 | 0.23 | 0.22 |
| South Western Sydney | Fairfield | 0.70 | 0.00 | 0.21 | 0.00 | 0.24 |
| | Liverpool | 0.42 | 0.26 | 0.12 | 0.12 | 0.55 |
| | Campbelltown | 0.28 | 0.25 | 0.25 | 0.36 | 0.00 |
| | Bankstown-Lidcombe | 0.51 | 0.36 | 0.34 | 0.00 | 0.52 |
| | Bowral | 0.00 | 0.00 | 0.93 | 0.00 | 0.00 |
| | TOTAL | 0.44 | 0.22 | 0.25 | 0.15 | 0.29 |
| South Eastern Sydney | St. George | 0.39 | 0.15 | 0.28 | 0.46 | 0.43 |
| | Sutherland | 0.28 | 0.26 | 0.00 | 0.81 | 0.00 |
| | Royal Hospital for Women | 0.84 | 0.46 | 0.35 | 0.73 | 0.18 |
| | TOTAL | 0.61 | 0.32 | 0.27 | 0.66 | 0.23 |
| Illawarra Shoalhaven | Shoalhaven | 1.09 | 0.62 | 0.00 | 0.00 | 0.63 |
| | Wollongong | 0.20 | 0.43 | 0.00 | 0.75 | 0.19 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.43 | 0.46 | 0.00 | 0.57 | 0.29 | |
| Western Sydney | Auburn | 0.23 | 0.26 | 0.57 | 0.28 | 0.00 |
| | Blacktown | 0.45 | 1.27 | 1.15 | 0.46 | 0.14 |
| | Westmead | 0.22 | 0.45 | 0.44 | 0.23 | 0.37 |
| | TOTAL | 0.28 | 0.64 | 0.65 | 0.30 | 0.25 |
| Nepean Blue Mountains | Blue Mountains | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Nepean | 0.87 | 0.52 | 0.62 | 0.48 | 0.27 |
| | Hawkesbury | 0.00 | 0.00 | 0.00 | 0.68 | 0.00 |
| | Lithgow | 0.00 | 2.50 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.64 | 0.50 | 0.46 | 0.47 | 0.21 | |
| Northern Sydney | Hornsby | 0.90 | 0.00 | 0.67 | 0.34 | 1.00 |
| | Manly | 0.28 | 0.00 | 0.38 | 0.00 | 0.00 |
| | Mona Vale | 0.00 | 0.67 | 0.00 | 0.00 | 0.00 |
| | Royal North Shore | 0.77 | 0.00 | 0.65 | 0.43 | 0.65 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TOTAL | 0.64 | 0.07 | 0.51 | 0.28 | 0.52 |
| Central Coast | Gosford | 0.80 | 0.18 | 1.05 | 0.63 | 0.35 |
| | Other hospitals | 0.00 | 3.92 | 0.00 | 0.00 | 0.00 |
| | TOTAL | 0.74 | 0.50 | 1.00 | 0.60 | 0.33 |
| Hunter New England | Armidale | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Inverell | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Tamworth Base | 0.00 | 0.52 | 1.10 | 0.00 | 1.02 |
| | Manning Base | 0.00 | 0.00 | 0.75 | 0.00 | 0.83 |
| | Maitland | 0.29 | 0.62 | 1.25 | 0.60 | 0.73 |
| | John Hunter | 0.36 | 0.61 | 0.61 | 0.72 | 0.25 |
| | Other hospitals | 0.00 | 0.43 | 0.99 | 0.00 | 0.41 |
| | TOTAL | 0.21 | 0.50 | 0.80 | 0.44 | 0.46 |
| Northern NSW | Grafton Base | 0.00 | 0.00 | 1.12 | 1.54 | 1.28 |
| | Lismore Base | 0.00 | 0.00 | 0.93 | 0.48 | 0.00 |
| | Tweed Heads | 0.24 | 0.49 | 0.35 | 0.30 | 0.35 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Other hospitals | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | | 0.12 | 0.25 | 0.62 | 0.46 | 0.31 |
| Mid North Coast | Coffs Harbour | 0.48 | 0.00 | 0.50 | 0.50 | 0.00 |
| | Kempsey | 0.00 | 0.00 | 0.00 | 0.00 | 4.17 |
| | Port Macquarie Base | 0.65 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TOTAL | 0.49 | 0.00 | 0.26 | 0.26 | 0.53 |
| Southern NSW | Bega | 0.00 | 2.22 | 1.92 | 0.00 | 0.00 |
| | Goulburn Base | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Moruya | 0.00 | 0.00 | 0.00 | 2.08 | 0.00 |
| | Queanbeyan | 0.85 | 0.00 | 0.86 | 0.00 | 0.00 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.32 | 0.32 | 0.65 | 0.33 | 0.00 | |
| Murrumbidgee | Griffith Base | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Wagga Wagga Base | 0.74 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Other hospitals | 1.12 | 0.00 | 1.59 | 0.00 | 1.15 |
| | TOTAL | 0.60 | 0.00 | 0.54 | 0.00 | 0.26 |
| Western NSW | Dubbo Base | 0.00 | 0.00 | 0.00 | 0.94 | 0.41 |
| | Mudgee | 1.47 | 0.00 | 0.00 | 1.82 | 0.00 |
| | Bathurst Base | 0.96 | 0.00 | 0.00 | 1.72 | 0.00 |
| | Orange Base | 0.00 | 0.00 | 0.00 | 0.50 | 0.00 |
| | Other hospitals | 1.10 | 4.11 | 0.00 | 1.32 | 0.00 |
| | TOTAL | 0.47 | 0.49 | 0.00 | 1.06 | 0.15 |
| 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 | 0.00 | 0.24 | 0.00 | 0.29 |
| | North Shore Private | 0.00 | 0.00 | 0.28 | 0.00 | 0.43 |
| | Sydney Adventist | 0.23 | 0.48 | 0.00 | 0.25 | 0.23 |
| | North Gosford Private | 0.00 | 0.75 | 0.00 | 0.69 | 0.00 |
| | Hurstville Community | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Kareena Private | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | St. George Private | 0.00 | 0.78 | 0.00 | 0.00 | 0.00 |
| | Prince of Wales Private | 0.22 | 0.00 | 0.28 | 0.00 | 0.00 |
| | Norwest Private | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 |
| | Sydney Southwest Private | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 |
| | Nepean Private | 0.66 | 0.00 | 0.63 | 0.00 | 0.65 |
| | Westmead Private | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Wollongong Private | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Newcastle Private | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Calvary, Wagga Wagga | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Other hospitals | 0.00 | 0.00 | 0.58 | 0.00 | 0.00 |
| TOTAL | 0.15 | 0.15 | 0.11 | 0.05 | 0.14 | |
| TOTAL NSW^a | | 0.38 | 0.33 | 0.37 | 0.32 | 0.27 |

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

^a Hospitals with more than 200 births in 2016 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 2016, 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 2012–2016[#]

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 11.86 | 13.47 | 10.52 | 10.61 | 8.62 |
| | Royal Prince Alfred | 10.43 | 10.08 | 10.09 | 11.13 | 10.54 |
| | TOTAL | 10.77 | 10.87 | 10.19 | 11.00 | 10.07 |
| South Western Sydney | Fairfield | 21.91 | 14.48 | 11.82 | 12.43 | 12.65 |
| | Liverpool | 18.06 | 14.68 | 15.08 | 13.67 | 15.54 |
| | Campbelltown | 11.25 | 9.39 | 10.73 | 13.14 | 12.74 |
| | Bankstown-Lidcombe | 17.69 | 12.72 | 10.26 | 10.68 | 13.27 |
| | Bowral | 10.20 | 11.90 | 10.56 | 10.53 | 8.89 |
| TOTAL | 16.43 | 12.61 | 12.26 | 12.62 | 13.58 | |
| South Eastern Sydney | St. George | 8.87 | 9.91 | 7.01 | 7.47 | 6.22 |
| | Sutherland | 11.58 | 8.94 | 10.94 | 9.69 | 6.62 |
| | Royal Hospital for Women | 4.42 | 4.51 | 4.15 | 3.88 | 4.49 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 6.83 | 6.85 | 6.03 | 5.88 | 5.35 | |
| Illawarra Shoalhaven | Shoalhaven | 6.10 | 6.51 | 7.87 | 5.90 | 6.18 |
| | Wollongong | 8.26 | 9.12 | 9.54 | 7.26 | 9.72 |
| | Other hospitals | 3.85 | 11.76 | 20.00 | 0.00 | 50.00 |
| TOTAL | 7.50 | 8.42 | 9.15 | 6.81 | 8.87 | |
| Western Sydney | Auburn | 10.57 | 5.64 | 7.74 | 8.33 | 4.53 |
| | Blacktown | 10.43 | 12.77 | 12.73 | 11.89 | 10.27 |
| | Westmead | 11.40 | 9.30 | 9.95 | 8.40 | 8.96 |
| TOTAL | 11.00 | 10.07 | 10.67 | 9.53 | 8.91 | |
| Nepean Blue Mountains | Blue Mountains | 9.62 | 8.33 | 6.58 | 3.53 | 6.58 |
| | Nepean | 18.36 | 16.19 | 15.25 | 13.90 | 12.00 |
| | Hawkesbury | 8.49 | 7.48 | 7.94 | 8.49 | 8.20 |
| | Lithgow | 4.08 | 3.28 | 6.15 | 4.69 | 1.52 |
| TOTAL | 16.00 | 13.91 | 13.45 | 12.34 | 10.93 | |
| Northern Sydney | Hornsby | 5.88 | 6.40 | 5.50 | 6.92 | 7.92 |
| | Manly | 4.21 | 4.20 | 7.43 | 7.43 | 6.69 |
| | Mona Vale | 0.00 | 6.08 | 8.42 | 8.25 | 9.01 |
| | Royal North Shore | 5.14 | 5.16 | 5.16 | 5.62 | 5.29 |
| | Other hospitals | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 5.03 | 5.32 | 5.97 | 6.46 | 6.42 | |
| Central Coast | Gosford | 7.78 | 7.74 | 6.54 | 6.33 | 10.97 |
| | TOTAL | 7.78 | 7.74 | 6.54 | 6.33 | 10.97 |
| Hunter New England | Armidale | 9.33 | 5.38 | 4.84 | 5.84 | 5.30 |
| | Inverell | 3.37 | 2.13 | 3.09 | 1.27 | 2.53 |
| | Tamworth Base | 10.37 | 9.82 | 13.50 | 14.78 | 9.24 |
| | Manning Base | 15.66 | 13.64 | 11.88 | 11.11 | 14.57 |
| | Maitland | 13.46 | 9.79 | 10.74 | 6.78 | 14.25 |
| | John Hunter | 16.55 | 18.25 | 15.36 | 12.49 | 16.28 |
| | Other hospitals | 20.00 | 20.36 | 24.00 | 15.00 | 11.11 |
| TOTAL | 14.74 | 14.48 | 13.92 | 11.30 | 13.54 | |
| Northern NSW | Grafton Base | 10.61 | 9.23 | 8.49 | 11.40 | 6.90 |
| | Lismore Base | 5.33 | 6.55 | 6.44 | 4.92 | 6.72 |
| | Tweed Heads | 12.11 | 7.23 | 12.01 | 7.82 | 7.07 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|--------------|--------------|--------------|--------------|-------------|
| | | % | % | % | % | % |
| Other hospitals | | 1.30 | 0.00 | 2.17 | 0.00 | 15.38 |
| | TOTAL | 8.49 | 6.73 | 8.63 | 6.93 | 7.06 |
| Mid North Coast | Coffs Harbour | 10.06 | 8.22 | 7.67 | 7.87 | 7.61 |
| | Kempsey | 3.33 | 1.92 | 15.38 | 0.00 | 15.52 |
| | Port Macquarie Base | 6.79 | 9.05 | 10.17 | 11.11 | 7.34 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 8.27 | 7.97 | 9.19 | 8.42 | 8.13 | |
| Southern NSW | Bega | 9.09 | 15.38 | 3.17 | 5.88 | 4.11 |
| | Goulburn Base | 12.50 | 2.74 | 2.94 | 7.78 | 7.69 |
| | Moruya | 5.68 | 8.96 | 6.25 | 4.05 | 6.10 |
| | Queanbeyan | 8.91 | 12.04 | 5.05 | 3.39 | 2.78 |
| Other hospitals | 8.00 | 2.22 | 18.18 | 11.76 | 4.76 | |
| TOTAL | 8.83 | 8.70 | 5.83 | 5.73 | 5.07 | |
| Murrumbidgee | Griffith Base | 10.12 | 6.02 | 10.53 | 5.96 | 7.06 |
| | Wagga Wagga Base | 11.57 | 6.84 | 8.33 | 12.72 | 7.62 |
| | Other hospitals | 5.77 | 7.69 | 4.40 | 3.54 | 1.75 |
| TOTAL | 9.54 | 6.86 | 7.85 | 9.30 | 6.40 | |
| Western NSW | Dubbo Base | 17.91 | 18.42 | 21.36 | 17.11 | 15.51 |
| | Mudgee | 5.08 | 7.94 | 1.61 | 8.57 | 3.51 |
| | Bathurst Base | 9.47 | 13.51 | 5.71 | 10.67 | 5.79 |
| | Orange Base | 16.78 | 11.21 | 11.05 | 5.98 | 11.83 |
| | Other hospitals | 19.01 | 10.00 | 0.93 | 7.45 | 7.14 |
| TOTAL | 15.46 | 13.43 | 11.89 | 11.01 | 11.54 | |
| Far West | Broken Hill Base | 12.50 | 14.52 | 8.33 | 8.00 | 7.58 |
| | TOTAL | 12.50 | 14.52 | 8.33 | 8.00 | 7.58 |
| Private Hospitals | Mater, North Sydney | 2.44 | 2.25 | 2.60 | 1.62 | 1.05 |
| | North Shore Private | 1.89 | 1.28 | 1.80 | 1.62 | 1.62 |
| | Sydney Adventist | 3.71 | 6.34 | 3.75 | 3.87 | 2.37 |
| | North Gosford Private | 2.17 | 3.95 | 2.61 | 2.85 | 2.26 |
| | Hurstville Community | 3.92 | 4.22 | 2.24 | 4.36 | 1.22 |
| | Kareena Private | 2.76 | 1.76 | 2.62 | 3.63 | 2.38 |
| | St. George Private | 4.07 | 3.23 | 4.04 | 3.42 | 3.53 |
| | Prince of Wales Private | 1.00 | 0.67 | 2.12 | 2.01 | 2.32 |
| | Norwest Private | 6.73 | 6.92 | 4.50 | 6.09 | 4.31 |
| | Sydney Southwest Private | 3.80 | 4.26 | 4.11 | 3.67 | 2.47 |
| | Nepean Private | 7.46 | 5.12 | 4.33 | 4.60 | 5.11 |
| | Westmead Private | 2.03 | 3.24 | 3.70 | 2.84 | 2.67 |
| | Wollongong Private | 0.00 | 0.00 | 0.00 | 0.00 | 4.56 |
| Newcastle Private | 1.48 | 2.07 | 1.78 | 2.59 | 2.25 | |
| Calvary, Wagga Wagga | 2.95 | 4.02 | 3.94 | 1.04 | 1.35 | |
| Other hospitals | 4.45 | 3.78 | 3.46 | 4.02 | 4.55 | |
| TOTAL | 2.97 | 3.10 | 3.03 | 2.98 | 2.48 | |
| TOTAL NSW* | 8.45 | 7.97 | 7.86 | 7.40 | 7.42 | |

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

[#] Hospitals with more than 200 births in 2016 are identified individually

* Total NSW includes births at home assisted by independent midwives

Postpartum haemorrhage and blood transfusion after vaginal birth

Indicator 7.1

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

Table 68 shows information for hospitals where at least 200 mothers gave birth in 2016, 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 2012–2016*

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 1.23 | 1.68 | 1.52 | 0.99 | 1.13 |
| | Royal Prince Alfred | 0.79 | 1.10 | 0.93 | 0.96 | 1.69 |
| | TOTAL | 0.90 | 1.26 | 1.09 | 0.97 | 1.54 |
| South Western Sydney | Fairfield | 0.43 | 0.48 | 0.61 | 0.85 | 1.16 |
| | Liverpool | 0.78 | 0.69 | 0.82 | 0.48 | 0.65 |
| | Campbelltown | 0.71 | 1.00 | 1.01 | 1.07 | 0.94 |
| | Bankstown-Lidcombe | 0.86 | 1.10 | 1.35 | 0.84 | 0.78 |
| | Bowral | 0.55 | 0.00 | 0.61 | 1.39 | 0.00 |
| | TOTAL | 0.70 | 0.79 | 0.94 | 0.82 | 0.83 |
| South Eastern Sydney | St. George | 1.64 | 1.54 | 1.73 | 1.83 | 1.11 |
| | Sutherland | 0.89 | 2.13 | 1.46 | 1.75 | 1.12 |
| | Royal Hospital for Women | 1.83 | 1.54 | 1.53 | 1.24 | 0.81 |
| | TOTAL | 1.61 | 1.65 | 1.58 | 1.52 | 0.96 |
| Illawarra Shoalhaven | Shoalhaven | 1.98 | 1.95 | 1.46 | 1.58 | 1.32 |
| | Wollongong | 0.98 | 1.86 | 1.50 | 1.53 | 1.31 |
| | Other hospitals | 2.11 | 1.27 | 0.00 | 0.00 | 0.00 |
| | TOTAL | 1.27 | 1.86 | 1.45 | 1.53 | 1.30 |
| Western Sydney | Auburn | 0.68 | 0.76 | 1.43 | 0.81 | 1.34 |
| | Blacktown | 1.13 | 0.74 | 1.13 | 1.17 | 1.49 |
| | Westmead | 1.64 | 2.20 | 1.88 | 1.49 | 1.24 |
| | TOTAL | 1.32 | 1.53 | 1.59 | 1.30 | 1.33 |
| Nepean Blue Mountains | Blue Mountains | 1.20 | 3.01 | 2.81 | 2.35 | 0.63 |
| | Nepean | 1.32 | 1.65 | 2.18 | 1.49 | 1.13 |
| | Hawkesbury | 1.01 | 0.98 | 1.05 | 2.71 | 1.43 |
| | TOTAL | 1.47 | 1.62 | 1.95 | 1.64 | 1.09 |
| Northern Sydney | Hornsby | 1.19 | 0.86 | 0.89 | 1.14 | 0.88 |
| | Manly | 1.03 | 1.98 | 1.34 | 1.59 | 1.17 |
| | Mona Vale | 0.92 | 2.04 | 0.86 | 2.52 | 0.74 |
| | Royal North Shore | 0.98 | 1.27 | 1.17 | 1.03 | 1.68 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.81 | 0.97 |
| | TOTAL | 1.01 | 1.36 | 1.07 | 1.33 | 1.28 |
| Central Coast | Gosford | 0.93 | 1.01 | 1.08 | 1.36 | 0.96 |
| | Other hospitals | 0.57 | 1.19 | 0.70 | 0.00 | 0.00 |
| | TOTAL | 0.89 | 1.02 | 1.05 | 1.26 | 0.90 |
| Hunter New England | Armidale | 1.60 | 0.32 | 1.40 | 1.78 | 1.10 |
| | Inverell | 1.16 | 2.59 | 0.56 | 2.01 | 1.80 |
| | Tamworth Base | 1.39 | 1.44 | 2.54 | 2.17 | 0.43 |
| | Manning Base | 1.36 | 2.54 | 2.20 | 3.61 | 1.20 |
| | Maitland | 2.12 | 1.71 | 1.72 | 1.78 | 1.67 |
| | John Hunter | 1.82 | 2.23 | 1.87 | 2.77 | 0.85 |
| | Other hospitals | 1.16 | 0.95 | 1.08 | 1.73 | 0.34 |
| | TOTAL | 1.66 | 1.82 | 1.78 | 2.39 | 0.94 |
| Northern NSW | Grafton Base | 0.96 | 1.54 | 1.85 | 1.02 | 0.33 |
| | Lismore Base | 0.98 | 1.66 | 2.19 | 1.89 | 0.69 |
| | Tweed Heads | 1.39 | 1.69 | 2.45 | 1.96 | 1.61 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Other hospitals | | 0.91 | 1.15 | 1.68 | 0.54 | 0.00 |
| | TOTAL | 1.15 | 1.61 | 2.20 | 1.71 | 0.94 |
| Mid North Coast | Coffs Harbour | 2.09 | 0.69 | 0.72 | 0.85 | 1.57 |
| | Kempsey | 2.97 | 2.50 | 1.92 | 3.50 | 0.00 |
| | Port Macquarie Base | 2.60 | 1.33 | 1.33 | 2.62 | 1.58 |
| | Other hospitals | 1.64 | 0.00 | 0.00 | 1.85 | 0.00 |
| | TOTAL | 2.38 | 1.14 | 1.08 | 1.87 | 1.30 |
| Southern NSW | Bega | 1.80 | 1.23 | 2.70 | 2.65 | 1.09 |
| | Goulburn Base | 0.80 | 0.00 | 1.97 | 1.38 | 0.00 |
| | Moruya | 3.32 | 1.31 | 1.01 | 2.20 | 3.21 |
| | Queanbeyan | 3.36 | 4.04 | 5.63 | 0.34 | 1.46 |
| | TOTAL | 2.44 | 1.72 | 3.02 | 1.27 | 1.41 |
| Murrumbidgee | Griffith Base | 0.85 | 2.58 | 3.29 | 1.19 | 1.41 |
| | Wagga Wagga Base | 1.22 | 2.04 | 1.68 | 1.91 | 2.38 |
| | Other hospitals | 5.34 | 1.32 | 1.68 | 2.04 | 1.36 |
| | TOTAL | 2.60 | 1.94 | 2.08 | 1.77 | 1.87 |
| Western NSW | Dubbo Base | 1.33 | 1.91 | 1.61 | 1.58 | 1.82 |
| | Mudgee | 1.98 | 0.00 | 1.10 | 2.27 | 1.58 |
| | Bathurst Base | 2.80 | 1.92 | 1.80 | 1.34 | 1.36 |
| | Orange Base | 2.03 | 1.65 | 1.64 | 0.85 | 0.70 |
| | Other hospitals | 2.69 | 0.84 | 0.55 | 1.73 | 1.61 |
| | TOTAL | 2.00 | 1.55 | 1.45 | 1.40 | 1.38 |
| Far West | Broken Hill Base | 2.87 | 3.73 | 2.92 | 1.78 | 0.61 |
| | TOTAL | 2.87 | 3.73 | 2.92 | 1.78 | 0.61 |
| Private Hospitals | Mater, North Sydney | 2.04 | 2.32 | 1.43 | 0.91 | 0.26 |
| | North Shore Private | 0.55 | 0.41 | 0.10 | 0.51 | 0.58 |
| | Sydney Adventist | 1.71 | 2.80 | 3.14 | 2.94 | 0.49 |
| | North Gosford Private | 3.48 | 2.10 | 3.86 | 1.09 | 0.83 |
| | Hurstville Community | 2.00 | 1.68 | 1.20 | 0.98 | 0.20 |
| | Kareena Private | 0.24 | 0.23 | 0.49 | 0.26 | 0.49 |
| | St. George Private | 0.32 | 0.21 | 0.44 | 0.46 | 0.35 |
| | Prince of Wales Private | 1.73 | 2.21 | 1.82 | 0.27 | 0.19 |
| | Norwest Private | 2.21 | 1.74 | 1.28 | 0.71 | 0.54 |
| | Sydney Southwest Private | 1.60 | 2.45 | 0.00 | 0.17 | 0.30 |
| | Nepean Private | 2.15 | 2.48 | 2.54 | 0.00 | 0.23 |
| | Westmead Private | 0.39 | 0.39 | 0.78 | 0.88 | 1.06 |
| | Wollongong Private | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 |
| | Newcastle Private | 0.24 | 0.86 | 1.81 | 0.34 | 0.35 |
| | Calvary, Wagga Wagga | 0.70 | 2.35 | 2.02 | 0.98 | 0.00 |
| | Other hospitals | 0.15 | 0.00 | 0.21 | 0.38 | 0.00 |
| | TOTAL | 1.25 | 1.44 | 1.38 | 0.80 | 0.47 |
| TOTAL NSW* | | 1.33 | 1.45 | 1.45 | 1.32 | 1.02 |

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
 # Hospitals with more than 200 births in 2016 are identified individually
 * Total NSW includes births at home assisted by independent midwives

Postpartum haemorrhage and blood transfusion after caesarean section

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 2016, 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 2012–2016*

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 1.02 | 1.89 | 1.24 | 1.02 | 1.15 |
| | Royal Prince Alfred | 0.83 | 1.47 | 0.81 | 0.73 | 1.18 |
| | TOTAL | 0.88 | 1.57 | 0.91 | 0.80 | 1.18 |
| South Western Sydney | Fairfield | 0.77 | 1.61 | 0.99 | 1.35 | 0.72 |
| | Liverpool | 1.16 | 0.62 | 1.66 | 0.43 | 0.73 |
| | Campbelltown | 0.76 | 0.41 | 0.54 | 1.24 | 0.88 |
| | Bankstown-Lidcombe | 0.80 | 1.16 | 1.21 | 0.89 | 1.42 |
| | Bowral | 0.00 | 0.00 | 0.70 | 0.00 | 1.48 |
| | TOTAL | 0.87 | 0.79 | 1.12 | 0.86 | 0.95 |
| South Eastern Sydney | St. George | 0.72 | 2.94 | 1.96 | 2.35 | 0.95 |
| | Sutherland | 1.40 | 1.66 | 2.19 | 0.94 | 0.32 |
| | Royal Hospital for Women | 1.90 | 2.16 | 2.41 | 1.77 | 0.90 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 1.45 | 2.33 | 2.24 | 1.84 | 0.83 | |
| Illawarra Shoalhaven | Shoalhaven | 3.25 | 3.83 | 3.15 | 2.80 | 2.32 |
| | Wollongong | 1.55 | 2.99 | 1.88 | 2.22 | 1.11 |
| | Other hospitals | 0.00 | 5.88 | 20.00 | 0.00 | 0.00 |
| TOTAL | 1.99 | 3.28 | 2.31 | 2.40 | 1.43 | |
| Western Sydney | Auburn | 3.40 | 3.01 | 1.35 | 1.92 | 0.97 |
| | Blacktown | 1.47 | 0.91 | 1.02 | 1.26 | 1.28 |
| | Westmead | 2.82 | 2.54 | 1.98 | 2.30 | 1.54 |
| | TOTAL | 2.44 | 2.05 | 1.59 | 1.92 | 1.40 |
| Nepean Blue Mountains | Blue Mountains | 1.92 | 3.33 | 1.32 | 1.18 | 0.00 |
| | Nepean | 2.23 | 3.41 | 2.57 | 2.88 | 1.17 |
| | Hawkesbury | 2.58 | 1.36 | 1.08 | 0.74 | 1.17 |
| | Lithgow | 2.04 | 3.28 | 1.54 | 1.56 | 1.52 |
| TOTAL | 2.28 | 3.04 | 2.25 | 2.45 | 1.13 | |
| Northern Sydney | Hornsby | 1.68 | 2.02 | 2.27 | 0.38 | 1.32 |
| | Manly | 0.70 | 2.29 | 1.12 | 1.12 | 3.34 |
| | Mona Vale | 1.92 | 0.00 | 0.53 | 0.52 | 0.90 |
| | Royal North Shore | 1.71 | 1.68 | 1.12 | 1.49 | 1.53 |
| | Other hospitals | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 1.59 | 1.69 | 1.27 | 1.13 | 1.72 | |
| Central Coast | Gosford | 1.98 | 1.11 | 1.15 | 1.01 | 0.90 |
| | TOTAL | 1.98 | 1.11 | 1.15 | 1.01 | 0.90 |
| Hunter New England | Armidale | 0.67 | 0.77 | 0.81 | 2.92 | 0.76 |
| | Inverell | 5.62 | 4.26 | 2.06 | 2.53 | 0.00 |
| | Tamworth Base | 2.49 | 2.46 | 2.55 | 2.06 | 1.32 |
| | Manning Base | 1.20 | 1.30 | 2.50 | 3.17 | 1.32 |
| | Maitland | 2.90 | 3.73 | 2.39 | 1.41 | 1.61 |
| | John Hunter | 4.20 | 4.58 | 3.75 | 3.43 | 1.62 |
| | Other hospitals | 3.56 | 0.90 | 3.11 | 2.27 | 1.33 |
| | TOTAL | 3.38 | 3.46 | 3.04 | 2.78 | 1.44 |
| Northern NSW | Grafton Base | 6.82 | 2.31 | 0.94 | 1.75 | 2.59 |
| | Lismore Base | 0.94 | 2.98 | 2.03 | 0.38 | 1.49 |
| | Tweed Heads | 1.41 | 2.71 | 2.47 | 1.63 | 1.01 |

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Other hospitals | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TOTAL | 1.93 | 2.55 | 1.92 | 1.11 | 1.44 |
| Mid North Coast | Coffs Harbour | 0.86 | 0.57 | 1.92 | 0.87 | 0.25 |
| | Kempsey | 5.00 | 5.77 | 1.92 | 1.64 | 3.45 |
| | Port Macquarie Base | 1.36 | 3.33 | 2.12 | 1.15 | 1.54 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TOTAL | 1.43 | 1.95 | 1.99 | 1.05 | 0.98 |
| Southern NSW | Bega | 4.55 | 1.92 | 0.00 | 2.94 | 0.00 |
| | Goulburn Base | 3.75 | 0.00 | 0.00 | 1.11 | 3.30 |
| | Moruya | 5.68 | 1.49 | 3.75 | 0.00 | 1.22 |
| | Queanbeyan | 5.94 | 8.33 | 2.02 | 0.00 | 0.93 |
| Other hospitals | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| TOTAL | 4.68 | 3.19 | 1.46 | 0.78 | 1.33 | |
| Murrumbidgee | Griffith Base | 2.38 | 0.75 | 1.32 | 0.66 | 0.59 |
| | Wagga Wagga Base | 0.83 | 3.85 | 1.74 | 2.66 | 1.17 |
| | Other hospitals | 5.13 | 4.90 | 5.66 | 5.31 | 1.75 |
| TOTAL | 2.47 | 3.33 | 2.67 | 2.66 | 1.12 | |
| Western NSW | Dubbo Base | 4.18 | 2.30 | 2.08 | 2.06 | 2.67 |
| | Mudgee | 0.00 | 1.59 | 1.61 | 2.86 | 0.00 |
| | Bathurst Base | 4.14 | 1.35 | 1.71 | 1.33 | 0.00 |
| | Orange Base | 1.75 | 1.15 | 0.58 | 1.66 | 0.85 |
| | Other hospitals | 2.48 | 2.50 | 0.00 | 1.06 | 0.00 |
| TOTAL | 2.99 | 1.73 | 1.27 | 1.78 | 1.29 | |
| Far West | Broken Hill Base | 3.75 | 0.00 | 0.00 | 2.00 | 0.00 |
| | TOTAL | 3.75 | 0.00 | 0.00 | 2.00 | 0.00 |
| Private Hospitals | Mater, North Sydney | 0.93 | 0.87 | 0.93 | 0.45 | 0.88 |
| | North Shore Private | 0.00 | 0.18 | 0.28 | 0.00 | 0.23 |
| | Sydney Adventist | 0.37 | 0.43 | 0.25 | 0.40 | 0.37 |
| | North Gosford Private | 1.63 | 1.13 | 0.58 | 0.32 | 0.85 |
| | Hurstville Community | 1.31 | 0.90 | 1.60 | 0.67 | 0.61 |
| | Kareena Private | 0.83 | 0.00 | 0.00 | 0.00 | 0.53 |
| | St. George Private | 0.38 | 0.26 | 0.48 | 0.71 | 0.71 |
| | Prince of Wales Private | 1.28 | 2.07 | 1.46 | 0.42 | 0.43 |
| | Norwest Private | 1.02 | 0.85 | 0.82 | 0.25 | 0.92 |
| | Sydney Southwest Private | 1.36 | 0.00 | 0.51 | 0.52 | 0.00 |
| | Nepean Private | 1.10 | 2.70 | 0.31 | 0.00 | 0.28 |
| | Westmead Private | 0.21 | 0.31 | 0.40 | 0.55 | 0.59 |
| | Wollongong Private | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 |
| | Newcastle Private | 0.12 | 0.83 | 0.63 | 0.13 | 0.35 |
| Calvary, Wagga Wagga | 0.84 | 0.40 | 0.39 | 0.35 | 0.00 | |
| Other hospitals | 1.35 | 0.24 | 0.92 | 0.67 | 0.00 | |
| TOTAL | 0.74 | 0.80 | 0.68 | 0.35 | 0.51 | |
| TOTAL NSW* | 1.58 | 1.72 | 1.43 | 1.25 | 0.99 | |

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

Hospitals with more than 200 births in 2016 are identified individually

* Total NSW includes births at home assisted by independent midwives

Intrauterine growth restriction

Indicator 8.1

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

Table 70 shows information for hospitals where at least 200 babies were born in 2016, 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 2012–2016*

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 1.86 | 1.38 | 1.89 | 2.57 | 0.97 |
| | Royal Prince Alfred | 1.39 | 1.36 | 1.55 | 1.14 | 1.68 |
| | TOTAL | 1.50 | 1.36 | 1.63 | 1.47 | 1.51 |
| South Western Sydney | Fairfield | 1.82 | 2.45 | 3.04 | 1.92 | 2.52 |
| | Liverpool | 2.57 | 1.99 | 2.31 | 2.73 | 2.20 |
| | Campbelltown | 1.15 | 1.46 | 1.28 | 1.99 | 0.84 |
| | Bankstown-Lidcombe | 2.41 | 1.17 | 2.16 | 1.74 | 2.33 |
| | Bowral | 1.40 | 0.51 | 1.44 | 0.57 | 1.03 |
| | TOTAL | 1.95 | 1.67 | 2.08 | 2.08 | 1.80 |
| South Eastern Sydney | St. George | 2.75 | 2.12 | 2.04 | 2.16 | 1.80 |
| | Sutherland | 2.62 | 0.88 | 0.67 | 0.17 | 1.93 |
| | Royal Hospital for Women | 1.23 | 1.20 | 1.62 | 1.78 | 2.04 |
| | TOTAL | 1.97 | 1.42 | 1.57 | 1.58 | 1.95 |
| Illawarra Shoalhaven | Shoalhaven | 1.58 | 1.52 | 0.29 | 2.02 | 1.75 |
| | Wollongong | 0.83 | 1.16 | 0.74 | 0.94 | 1.00 |
| | Other hospitals | 0.00 | 0.00 | 2.86 | 0.00 | 0.00 |
| | TOTAL | 1.01 | 1.23 | 0.67 | 1.25 | 1.19 |
| Western Sydney | Auburn | 2.09 | 2.10 | 2.76 | 2.08 | 1.91 |
| | Blacktown | 1.60 | 1.52 | 1.72 | 1.70 | 2.98 |
| | Westmead | 2.51 | 2.53 | 2.44 | 2.12 | 3.46 |
| | TOTAL | 2.14 | 2.15 | 2.26 | 1.99 | 3.08 |
| Nepean Blue Mountains | Blue Mountains | 0.00 | 0.83 | 1.71 | 0.00 | 0.69 |
| | Nepean | 0.66 | 1.53 | 1.87 | 2.11 | 1.61 |
| | Hawkesbury | 1.02 | 0.96 | 0.69 | 2.27 | 1.45 |
| | TOTAL | 0.77 | 1.49 | 1.70 | 1.97 | 1.77 |
| Northern Sydney | Hornsby | 2.08 | 1.04 | 1.97 | 1.05 | 1.46 |
| | Manly | 1.17 | 0.90 | 1.57 | 1.18 | 1.02 |
| | Mona Vale | 2.30 | 1.02 | 1.48 | 0.60 | 0.66 |
| | Royal North Shore | 2.14 | 1.92 | 1.59 | 1.37 | 2.73 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 1.61 |
| | TOTAL | 1.82 | 1.35 | 1.61 | 1.10 | 1.83 |
| Central Coast | Gosford | 1.15 | 1.58 | 1.86 | 1.15 | 0.71 |
| | Other hospitals | 0.00 | 0.00 | 1.64 | 0.00 | 0.00 |
| | TOTAL | 1.06 | 1.47 | 1.85 | 1.07 | 0.66 |
| Hunter New England | Armidale | 3.19 | 1.65 | 3.01 | 1.31 | 2.43 |
| | Inverell | 1.52 | 1.10 | 1.12 | 1.25 | 0.00 |
| | Tamworth Base | 3.09 | 2.56 | 0.93 | 3.12 | 1.37 |
| | Manning Base | 1.27 | 1.88 | 1.08 | 1.46 | 3.91 |
| | Maitland | 1.85 | 1.47 | 1.48 | 1.47 | 1.36 |
| | John Hunter | 1.86 | 1.74 | 1.31 | 1.17 | 1.51 |
| | Other hospitals | 2.13 | 1.61 | 1.49 | 1.61 | 1.44 |
| | TOTAL | 2.02 | 1.74 | 1.38 | 1.53 | 1.64 |
| Northern NSW | Grafton Base | 1.04 | 1.49 | 2.04 | 0.66 | 1.43 |
| | Lismore Base | 0.99 | 1.28 | 1.26 | 2.14 | 1.72 |
| | Tweed Heads | 1.56 | 0.79 | 0.52 | 0.50 | 1.08 |
| Other hospitals | | 0.46 | 1.27 | 0.69 | 1.61 | 2.29 |
| | TOTAL | 1.18 | 1.08 | 1.01 | 1.19 | 1.48 |
| Mid North Coast | Coffs Harbour | 1.34 | 2.55 | 1.30 | 0.00 | 0.86 |
| | Kempsey | 1.87 | 0.97 | 1.82 | 0.87 | 2.04 |
| | Port Macquarie Base | 1.24 | 1.61 | 0.65 | 1.70 | 1.22 |
| | Other hospitals | 0.00 | 0.00 | 3.57 | 4.35 | 0.00 |
| | TOTAL | 1.32 | 1.91 | 1.21 | 0.88 | 1.13 |
| Southern NSW | Bega | 1.01 | 0.00 | 1.54 | 0.00 | 3.25 |
| | Goulburn Base | 1.71 | 2.61 | 0.71 | 1.85 | 3.23 |
| | Moruya | 2.78 | 2.01 | 0.85 | 0.00 | 1.34 |
| | Queanbeyan | 0.43 | 2.37 | 1.33 | 1.81 | 0.40 |
| | TOTAL | 1.29 | 2.23 | 1.17 | 1.16 | 1.97 |
| Murrumbidgee | Griffith Base | 1.93 | 1.55 | 1.19 | 0.00 | 2.07 |
| | Wagga Wagga Base | 2.16 | 2.41 | 2.61 | 1.01 | 2.05 |
| | Other hospitals | 2.04 | 1.67 | 0.00 | 4.78 | 1.53 |
| | TOTAL | 2.05 | 1.89 | 1.32 | 1.99 | 1.91 |
| Western NSW | Dubbo Base | 2.95 | 2.57 | 2.49 | 2.20 | 2.92 |
| | Mudgee | 0.74 | 1.75 | 1.77 | 0.00 | 1.69 |
| | Bathurst Base | 2.58 | 1.76 | 1.15 | 0.81 | 2.14 |
| | Orange Base | 3.26 | 1.49 | 0.99 | 1.02 | 1.32 |
| | TOTAL | 2.57 | 1.78 | 1.55 | 1.11 | 2.24 |
| Far West | Broken Hill Base | 1.15 | 5.26 | 3.26 | 4.88 | 0.82 |
| | TOTAL | 1.15 | 5.26 | 3.26 | 4.88 | 0.82 |
| Private Hospitals | Mater, North Sydney | 1.68 | 2.15 | 2.02 | 1.21 | 1.16 |
| | North Shore Private | 1.39 | 1.62 | 1.54 | 0.93 | 1.22 |
| | Sydney Adventist | 1.67 | 1.79 | 1.39 | 2.17 | 1.23 |
| | North Gosford Private | 0.00 | 0.49 | 0.53 | 0.98 | 1.31 |
| | Hurstville Community | 1.01 | 0.89 | 1.30 | 1.52 | 0.94 |
| | Kareena Private | 0.62 | 2.20 | 0.00 | 0.58 | 1.13 |
| | St. George Private | 0.62 | 2.11 | 2.43 | 2.96 | 1.42 |
| | Prince of Wales Private | 1.62 | 1.79 | 0.86 | 1.86 | 1.73 |
| | Norwest Private | 1.45 | 1.50 | 1.13 | 1.44 | 2.46 |
| | Sydney Southwest Private | 1.14 | 3.00 | 1.63 | 0.35 | 0.72 |
| | Nepean Private | 0.41 | 0.44 | 0.50 | 0.00 | 0.00 |
| | Westmead Private | 1.49 | 2.03 | 1.56 | 2.60 | 1.75 |
| | Wollongong Private | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 |
| | Newcastle Private | 3.18 | 1.06 | 0.81 | 0.96 | 0.41 |
| | Calvary, Wagga Wagga | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Other hospitals | 1.40 | 0.00 | 3.73 | 2.37 | 0.00 |
| | TOTAL | 1.52 | 1.62 | 1.39 | 1.53 | 1.31 |
| TOTAL NSW* | 1.69 | 1.62 | 1.60 | 1.58 | 1.78 | |

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

Hospitals with more than 200 births in 2016 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 2016, 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 2012–2016*

| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| | | % | % | % | % | % |
| Sydney | Canterbury | 0.92 | 1.51 | 1.43 | 1.40 | 1.42 |
| | Royal Prince Alfred | 1.68 | 2.01 | 2.08 | 1.94 | 1.15 |
| | TOTAL | 1.49 | 1.88 | 1.91 | 1.79 | 1.22 |
| South Western Sydney | Fairfield | 0.99 | 0.96 | 0.72 | 1.26 | 0.88 |
| | Liverpool | 1.54 | 1.48 | 1.38 | 1.12 | 0.90 |
| | Campbelltown | 1.63 | 1.69 | 1.41 | 1.32 | 1.46 |
| | Bankstown-Lidcombe | 0.65 | 0.53 | 0.73 | 0.93 | 1.02 |
| | Bowral | 0.45 | 1.31 | 1.54 | 0.26 | 1.43 |
| | TOTAL | 1.22 | 1.24 | 1.14 | 1.13 | 1.11 |
| South Eastern Sydney | St. George | 1.25 | 1.69 | 1.82 | 2.26 | 1.61 |
| | Sutherland | 1.38 | 2.75 | 0.93 | 0.88 | 1.64 |
| | Royal Hospital for Women | 2.04 | 1.88 | 1.98 | 1.63 | 1.88 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TOTAL | 1.67 | 1.97 | 1.74 | 1.71 | 1.75 |
| Illawarra Shoalhaven | Shoalhaven | 1.35 | 1.08 | 1.55 | 1.17 | 1.92 |
| | Wollongong | 1.51 | 1.88 | 1.21 | 1.03 | 1.00 |
| | Other hospitals | 0.00 | 1.08 | 0.00 | 0.00 | 0.00 |
| TOTAL | 1.41 | 1.64 | 1.28 | 1.06 | 1.24 | |
| Western Sydney | Auburn | 0.50 | 1.10 | 0.54 | 0.40 | 0.46 |
| | Blacktown | 0.71 | 0.69 | 0.82 | 0.62 | 1.01 |
| | Westmead | 0.83 | 0.95 | 0.97 | 1.51 | 1.29 |
| | TOTAL | 0.74 | 0.89 | 0.86 | 1.08 | 1.09 |
| Nepean Blue Mountains | Blue Mountains | 0.95 | 0.45 | 0.00 | 1.61 | 1.69 |
| | Nepean | 0.74 | 0.64 | 0.92 | 1.19 | 1.22 |
| | Hawkesbury | 1.38 | 0.79 | 0.83 | 0.28 | 0.77 |
| | Lithgow | 1.16 | 2.31 | 2.05 | 3.21 | 1.98 |
| TOTAL | 0.87 | 0.74 | 0.90 | 1.17 | 1.21 | |
| Northern Sydney | Hornsby | 1.70 | 1.41 | 1.64 | 1.56 | 2.13 |
| | Manly | 0.82 | 1.38 | 1.76 | 0.76 | 1.90 |
| | Mona Vale | 0.63 | 1.14 | 1.72 | 1.24 | 0.81 |
| | Royal North Shore | 0.80 | 1.53 | 1.58 | 1.39 | 1.95 |
| | Other hospitals | 0.74 | 0.78 | 0.00 | 0.81 | 0.00 |
| TOTAL | 1.02 | 1.41 | 1.61 | 1.28 | 1.79 | |
| Central Coast | Gosford | 2.42 | 2.34 | 1.57 | 1.76 | 2.19 |
| | Other hospitals | 0.57 | 1.20 | 0.00 | 0.00 | 1.47 |
| TOTAL | 2.29 | 2.27 | 1.49 | 1.67 | 2.16 | |
| Hunter New England | Armidale | 1.16 | 1.67 | 1.57 | 1.06 | 1.84 |
| | Inverell | 0.00 | 0.38 | 0.40 | 0.00 | 1.72 |
| | Tamworth Base | 1.85 | 2.37 | 2.25 | 2.83 | 2.44 |
| | Manning Base | 2.45 | 2.60 | 1.82 | 2.59 | 1.59 |
| | Maitland | 1.48 | 1.60 | 2.40 | 2.16 | 1.79 |
| | John Hunter | 2.28 | 2.15 | 2.67 | 1.83 | 2.24 |
| | Other hospitals | 1.87 | 0.79 | 0.98 | 0.98 | 1.02 |
| | TOTAL | 1.93 | 1.84 | 2.16 | 1.87 | 1.94 |
| Northern NSW | Grafton Base | 1.70 | 2.66 | 1.44 | 1.06 | 1.97 |
| | Lismore Base | 1.57 | 1.65 | 1.21 | 1.82 | 2.03 |
| | Tweed Heads | 1.90 | 1.81 | 1.68 | 1.36 | 1.62 |
| | | | | | | |
| Local Health District–Hospital | | 2012 | 2013 | 2014 | 2015 | 2016 |
| | | % | % | % | % | % |
| Other hospitals | | 0.25 | 0.31 | 0.35 | 0.00 | 0.41 |
| TOTAL | | 1.57 | 1.71 | 1.35 | 1.38 | 1.72 |
| Mid North Coast | Coffs Harbour | 1.70 | 1.75 | 1.81 | 1.74 | 1.08 |
| | Kempsey | 1.60 | 1.27 | 4.82 | 3.64 | 3.02 |
| | Port Macquarie Base | 1.72 | 1.59 | 1.82 | 1.48 | 1.27 |
| | Other hospitals | 0.00 | 0.00 | 0.00 | 0.00 | 2.08 |
| | TOTAL | 1.65 | 1.58 | 2.14 | 1.84 | 1.42 |
| Southern NSW | Bega | 1.82 | 1.46 | 0.84 | 0.94 | 1.61 |
| | Goulburn Base | 1.88 | 1.09 | 2.32 | 2.41 | 0.73 |
| | Moruya | 1.57 | 0.70 | 0.76 | 1.05 | 0.00 |
| | Queanbeyan | 0.24 | 0.94 | 1.21 | 1.74 | 1.13 |
| | Other hospitals | 1.19 | 1.97 | 1.40 | 2.56 | 2.04 |
| TOTAL | 1.25 | 1.12 | 1.29 | 1.70 | 1.00 | |
| Murrumbidgee | Griffith Base | 0.86 | 1.77 | 2.23 | 1.57 | 1.81 |
| | Wagga Wagga Base | 1.91 | 2.74 | 3.02 | 2.05 | 1.80 |
| | Other hospitals | 0.82 | 0.87 | 0.97 | 1.48 | 0.42 |
| | TOTAL | 1.25 | 1.86 | 2.13 | 1.75 | 1.46 |
| Western NSW | Dubbo Base | 1.15 | 1.66 | 1.46 | 1.23 | 2.01 |
| | Mudgee | 0.40 | 1.27 | 1.26 | 2.07 | 1.23 |
| | Bathurst Base | 1.67 | 1.63 | 1.85 | 2.00 | 1.08 |
| | Orange Base | 1.12 | 1.30 | 1.49 | 1.94 | 0.81 |
| | Other hospitals | 1.37 | 0.22 | 1.78 | 1.20 | 1.00 |
| TOTAL | 1.20 | 1.32 | 1.56 | 1.62 | 1.33 | |
| Far West | Broken Hill Base | 1.64 | 3.24 | 2.24 | 1.42 | 1.79 |
| | TOTAL | 1.64 | 3.24 | 2.24 | 1.42 | 1.79 |
| Private Hospitals | Mater, North Sydney | 0.39 | 0.30 | 0.32 | 0.38 | 0.18 |
| | North Shore Private | 0.61 | 0.46 | 0.57 | 0.66 | 0.25 |
| | Sydney Adventist | 0.94 | 0.93 | 1.19 | 1.07 | 4.94 |
| | North Gosford Private | 0.66 | 0.40 | 0.14 | 0.93 | 1.52 |
| | Hurstville Community | 0.67 | 0.99 | 1.01 | 1.19 | 1.16 |
| | Kareena Private | 1.24 | 0.41 | 1.15 | 1.25 | 1.22 |
| | St. George Private | 0.87 | 1.29 | 0.54 | 0.75 | 1.01 |
| | Prince of Wales Private | 0.50 | 0.61 | 0.54 | 0.36 | 0.48 |
| | Norwest Private | 0.37 | 0.57 | 0.25 | 0.36 | 0.36 |
| | Sydney Southwest Private | 1.05 | 0.62 | 0.42 | 0.53 | 0.60 |
| | Nepean Private | 0.00 | 0.39 | 0.13 | 0.40 | 0.68 |
| | Westmead Private | 0.70 | 0.65 | 0.78 | 0.77 | 0.33 |
| | Wollongong Private | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 |
| | Newcastle Private | 0.55 | 0.56 | 0.39 | 0.71 | 0.70 |
| | Calvary, Wagga Wagga | 1.02 | 0.92 | 0.65 | 0.90 | 0.85 |
| | Other hospitals | 0.85 | 0.53 | 0.80 | 0.22 | 0.00 |
| | TOTAL | 0.65 | 0.63 | 0.58 | 0.65 | 0.96 |
| TOTAL NSW* | 1.19 | 1.29 | 1.28 | 1.26 | 1.33 | |

Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.
 # Hospitals with more than 200 births in 2016 are identified individually
 * Total NSW includes births at home assisted by independent midwives

8. ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS AND BABIES

Reporting of Aboriginality

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

The estimated percentage of Aboriginal or Torres Strait Islander mothers in NSW that were reported to the Perinatal Data Collection was 83.2% in 2014, 85.7% in 2015 and 90.5% in 2016. In 2016, reporting varied between Local Health Districts, ranging from 83.8% in the Western Sydney Local Health District to 96.6% in the Central Coast Local Health District, with reporting generally better in rural compared to urban areas (Figure 2, Table 72).

Figure 2: Estimated level of reporting of births to Aboriginal or Torres Strait Islander mothers by year of birth and Local Health District of residence, NSW 2016



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

TABLE 72: ABORIGINAL OR TORRES STRAIT ISLANDER MOTHERS AND ESTIMATED LEVEL OF REPORTING BY YEAR OF BIRTH AND LOCAL HEALTH DISTRICT OF RESIDENCE 2014–2016

| Year of birth–Local Health District | | PDC mothers | Estimated Aboriginal mothers | Level of reporting |
|-------------------------------------|-----------------------|-------------|------------------------------|--------------------|
| | | No. | No. | % |
| 2014 | Sydney | 120 | 135 | 88.9 |
| | South Western Sydney | 235 | 343 | 68.5 |
| | South Eastern Sydney | 99 | 126 | 78.6 |
| | Illawarra Shoalhaven | 212 | 260 | 81.5 |
| | Western Sydney | 301 | 390 | 77.2 |
| | Nepean Blue Mountains | 196 | 243 | 80.7 |
| | Northern Sydney | 29 | 45 | 64.4 |
| | Central Coast | 217 | 237 | 91.6 |
| | Hunter New England | 932 | 1106 | 84.3 |
| | Northern NSW | 235 | 266 | 88.3 |
| | Mid North Coast | 251 | 284 | 88.4 |
| | Southern NSW | 86 | 101 | 85.1 |
| | Murrumbidgee | 190 | 229 | 83.0 |
| | Western NSW | 583 | 667 | 87.4 |
| | Far West | 46 | 51 | 90.2 |
| | Other–not stated | 23 | 28 | 82.1 |
| | NSW | 3756 | 4512 | 83.2 |
| 2015 | Sydney | 111 | 134 | 82.8 |
| | South Western Sydney | 237 | 309 | 76.7 |
| | South Eastern Sydney | 110 | 139 | 79.1 |
| | Illawarra Shoalhaven | 220 | 261 | 84.3 |
| | Western Sydney | 246 | 324 | 75.9 |
| | Nepean Blue Mountains | 243 | 289 | 84.1 |
| | Northern Sydney | 32 | 42 | 76.2 |
| | Central Coast | 222 | 242 | 91.7 |
| | Hunter New England | 975 | 1095 | 89.0 |
| | Northern NSW | 241 | 268 | 89.9 |
| | Mid North Coast | 248 | 277 | 89.5 |
| | Southern NSW | 93 | 108 | 86.1 |
| | Murrumbidgee | 172 | 202 | 85.1 |
| | Western NSW | 610 | 701 | 87.0 |
| | Far West | 43 | 48 | 89.6 |
| | Other–not stated | 19 | 20 | 95.0 |
| | NSW | 3823 | 4460 | 85.7 |
| 2016 | Sydney | 86 | 92 | 93.5 |
| | South Western Sydney | 318 | 363 | 87.6 |
| | South Eastern Sydney | 112 | 132 | 84.8 |
| | Illawarra Shoalhaven | 241 | 267 | 90.3 |
| | Western Sydney | 258 | 308 | 83.8 |
| | Nepean Blue Mountains | 232 | 261 | 88.9 |
| | Northern Sydney | 40 | 46 | 87.0 |
| | Central Coast | 226 | 234 | 96.6 |
| | Hunter New England | 1052 | 1148 | 91.6 |
| | Northern NSW | 225 | 242 | 93.0 |
| | Mid North Coast | 234 | 261 | 89.7 |
| | Southern NSW | 96 | 108 | 88.9 |
| | Murrumbidgee | 215 | 246 | 87.4 |
| | Western NSW | 630 | 672 | 93.8 |
| | Far West | 42 | 44 | 95.5 |
| | Other–not stated | 35 | 39 | 89.7 |
| | NSW | 4118 | 4552 | 90.5 |

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

Table 73 shows the number of babies born to Aboriginal or Torres Strait Islander mothers as reported to the Perinatal Data Collection and the number of Aboriginal or Torres Strait Islander babies born in NSW according to Enhanced Reporting of Aboriginality information on the Maternal and Child Health Register (see Methods). The estimated percentage of Aboriginal or Torres Strait Islander babies born in NSW that were reported to the Perinatal Data Collection was 70.3% in 2016. Reporting ranged from 62.7% in the Hunter New England Local Health District to 85.7% in the Far West Local Health District. There are therefore a substantial number of Aboriginal babies with non-Aboriginal or Torres Strait Islander mothers who are not represented in the numbers reported in this chapter.

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

TABLE 73: ABORIGINAL OR TORRES STRAIT ISLANDER BABIES AND ESTIMATED LEVEL OF REPORTING BY YEAR OF BIRTH AND LOCAL HEALTH DISTRICT OF RESIDENCE 2014–2016*

| Year of birth–Local Health District | | PDC babies [#] | Estimated Aboriginal babies [#] | Level of reporting |
|-------------------------------------|-----------------------|-------------------------|--|--------------------|
| | | No. | No. | % |
| 2014 | Sydney | 122 | 169 | 72.2 |
| | South Western Sydney | 238 | 414 | 57.5 |
| | South Eastern Sydney | 99 | 179 | 55.3 |
| | Illawarra Shoalhaven | 213 | 418 | 51.0 |
| | Western Sydney | 305 | 422 | 72.3 |
| | Nepean Blue Mountains | 199 | 320 | 62.2 |
| | Northern Sydney | 30 | 64 | 46.9 |
| | Central Coast | 217 | 321 | 67.6 |
| | Hunter New England | 948 | 1586 | 59.8 |
| | Northern NSW | 238 | 308 | 77.3 |
| | Mid North Coast | 256 | 363 | 70.5 |
| | Southern NSW | 87 | 133 | 65.4 |
| | Murrumbidgee | 193 | 285 | 67.7 |
| | Western NSW | 592 | 815 | 72.6 |
| | Far West | 46 | 53 | 86.8 |
| | Other-not stated | 24 | 38 | 63.2 |
| NSW | 3808 | 5890 | 64.7 | |
| 2015 | Sydney | 111 | 155 | 71.6 |
| | South Western Sydney | 246 | 428 | 57.5 |
| | South Eastern Sydney | 110 | 187 | 58.8 |
| | Illawarra Shoalhaven | 223 | 377 | 59.2 |
| | Western Sydney | 252 | 388 | 64.9 |
| | Nepean Blue Mountains | 246 | 371 | 66.3 |
| | Northern Sydney | 32 | 62 | 51.6 |
| | Central Coast | 223 | 360 | 61.9 |
| | Hunter New England | 990 | 1593 | 62.1 |
| | Northern NSW | 242 | 304 | 79.6 |
| | Mid North Coast | 254 | 356 | 71.3 |
| | Southern NSW | 94 | 138 | 68.1 |
| | Murrumbidgee | 174 | 262 | 66.4 |
| | Western NSW | 612 | 810 | 75.6 |
| | Far West | 43 | 50 | 86.0 |
| | Other-not stated | 19 | 30 | 63.3 |
| NSW | 3872 | 5872 | 65.9 | |
| 2016 | Sydney | 86 | 113 | 76.1 |
| | South Western Sydney | 325 | 471 | 69.0 |
| | South Eastern Sydney | 113 | 175 | 64.6 |
| | Illawarra Shoalhaven | 247 | 352 | 70.2 |
| | Western Sydney | 263 | 359 | 73.3 |
| | Nepean Blue Mountains | 232 | 324 | 71.6 |
| | Northern Sydney | 41 | 65 | 63.1 |
| | Central Coast | 232 | 350 | 66.3 |
| | Hunter New England | 1062 | 1695 | 62.7 |
| | Northern NSW | 226 | 304 | 74.3 |
| | Mid North Coast | 237 | 312 | 76.0 |
| | Southern NSW | 97 | 139 | 69.8 |
| | Murrumbidgee | 218 | 282 | 77.3 |
| | Western NSW | 640 | 801 | 79.9 |
| | Far West | 42 | 49 | 85.7 |
| | Other-not stated | 36 | 48 | 75.0 |
| NSW | 4174 | 5935 | 70.3 | |

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

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

Trends in births

Between 2012 and 2016, the number of reported births to Aboriginal or Torres Strait Islander mothers rose from 3,399 to 4,174, representing 3.4% and 4.2% respectively of all babies born in NSW. In 2016, 3,990 babies were born to Aboriginal mothers, 51 babies were born to Torres Strait Islander mothers and 133 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 2012–2016[#]

| Aboriginal and Torres Strait Islander | Year | | | | | | | | | | |
|--|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|--|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | |
| Confinements | | | | | | | | | | | |
| Aboriginal but not Torres Strait Islander | 3218 | 96.1 | 3359 | 96.2 | 3596 | 95.7 | 3686 | 96.4 | 3938 | 95.6 | |
| Torres Strait Islander but not Aboriginal | 49 | 1.5 | 53 | 1.5 | 51 | 1.4 | 43 | 1.1 | 50 | 1.2 | |
| Both Aboriginal and Torres Strait Islander | 81 | 2.4 | 80 | 2.3 | 109 | 2.9 | 94 | 2.5 | 130 | 3.2 | |
| TOTAL | 3348 | 100.0 | 3492 | 100.0 | 3756 | 100.0 | 3823 | 100.0 | 4118 | 100.0 | |
| Births | | | | | | | | | | | |
| Aboriginal but not Torres Strait Islander | 3269 | 96.2 | 3406 | 96.2 | 3647 | 95.8 | 3735 | 96.5 | 3990 | 95.6 | |
| Torres Strait Islander but not Aboriginal | 49 | 1.4 | 55 | 1.6 | 51 | 1.3 | 43 | 1.1 | 51 | 1.2 | |
| Both Aboriginal and Torres Strait Islander | 81 | 2.4 | 81 | 2.3 | 110 | 2.9 | 94 | 2.4 | 133 | 3.2 | |
| TOTAL | 3399 | 100.0 | 3542 | 100.0 | 3808 | 100.0 | 3872 | 100.0 | 4174 | 100.0 | |

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

Plurality

Between 2012 and 2016, multiple pregnancies (twins, triplets etc.) were reported for about 1.4% of all pregnancies. In 2016, 2.7% 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 2012–2016[#]

| Plurality | Year | | | | | | | | | | |
|---------------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|--|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | | |
| | No. | % | No. | % | No. | % | No. | % | No. | % | |
| Confinements | | | | | | | | | | | |
| Singleton | 3298 | 98.5 | 3442 | 98.6 | 3705 | 98.6 | 3774 | 98.7 | 4062 | 98.6 | |
| Twins | 49 | 1.5 | 50 | 1.4 | 50 | 1.3 | 49 | 1.3 | 56 | 1.4 | |
| Triplets | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| TOTAL | 3348 | 100.0 | 3492 | 100.0 | 3756 | 100.0 | 3823 | 100.0 | 4118 | 100.0 | |
| Births | | | | | | | | | | | |
| Singleton | 3298 | 97.0 | 3442 | 97.2 | 3705 | 97.3 | 3774 | 97.5 | 4062 | 97.3 | |
| Twins | 98 | 2.9 | 100 | 2.8 | 100 | 2.6 | 98 | 2.5 | 112 | 2.7 | |
| Triplets | 3 | 0.1 | 0 | 0.0 | 3 | 0.1 | 0 | 0.0 | 0 | 0.0 | |
| TOTAL | 3399 | 100.0 | 3542 | 100.0 | 3808 | 100.0 | 3872 | 100.0 | 4174 | 100.0 | |

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

Previous pregnancies

In 2016, just over one-third of Aboriginal or Torres Strait Islander mothers gave birth for the first time, 59.3% of mothers reported between 1 and 4 previous births and 6.3% of mothers had previously given birth to 5 or more babies (Table 76). Between 2012 and 2016, the percentage of mothers who had previously given birth to 5 or more babies fluctuated between 6.3% and 6.8%.

TABLE 76: PREVIOUS PREGNANCIES AMONG ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2012–2016[#]

| No. previous pregnancies (>20 weeks gestation) | Year | | | | | | | | | |
|--|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| 0 | 1156 | 34.5 | 1235 | 35.4 | 1241 | 33.0 | 1322 | 34.6 | 1412 | 34.3 |
| 1–4 | 1981 | 59.2 | 2019 | 57.8 | 2262 | 60.2 | 2251 | 58.9 | 2441 | 59.3 |
| 5+ | 211 | 6.3 | 237 | 6.8 | 252 | 6.7 | 248 | 6.5 | 259 | 6.3 |
| Not stated | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 2 | 0.1 | 6 | 0.1 |
| TOTAL | 3348 | 100.0 | 3492 | 100.0 | 3756 | 100.0 | 3823 | 100.0 | 4118 | 100.0 |

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

Maternal age

The percentage of Aboriginal or Torres Strait Islander mothers who were teenagers fell substantially from 18.6% in 2012 to 12.8% in 2016. The percentage of Aboriginal or Torres Strait Islander mothers giving birth at 35 years of age or more has increased from 8.1% in 2012 to 9.5% in 2016 (Table 77).

TABLE 77: AGE OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2012–2016^a

| Maternal age (years) | Year | | | | | | | | | |
|----------------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| 12-19 | 623 | 18.6 | 615 | 17.6 | 592 | 15.8 | 587 | 15.4 | 526 | 12.8 |
| 20-34 | 2451 | 73.2 | 2546 | 72.9 | 2850 | 75.9 | 2905 | 76.0 | 3198 | 77.7 |
| 35+ | 272 | 8.1 | 331 | 9.5 | 314 | 8.4 | 331 | 8.7 | 393 | 9.5 |
| Not stated | 2 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.0 |
| TOTAL | 3348 | 100.0 | 3492 | 100.0 | 3756 | 100.0 | 3823 | 100.0 | 4118 | 100.0 |

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

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

Local Health District of residence

The reported number of Aboriginal or Torres Strait Islander mothers who gave birth in 2016 ranged from 40 in the Northern Sydney Local Health District to 1,052 in the Hunter New England Local Health District (Table 78). The proportion of Aboriginal or Torres Strait Islander mothers who were teenagers varied from 7.1% in the South Eastern Sydney Local Health District to 19.8% in the Southern NSW Local Health District (Table 79).

TABLE 78: LOCAL HEALTH DISTRICT OF RESIDENCE OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2012–2016^a

| Local Health District | Year | | | | | | | | | |
|-----------------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 109 | 3.3 | 90 | 2.6 | 120 | 3.2 | 111 | 2.9 | 86 | 2.1 |
| South Western Sydney | 208 | 6.2 | 199 | 5.7 | 235 | 6.3 | 237 | 6.2 | 318 | 7.7 |
| South Eastern Sydney | 70 | 2.1 | 92 | 2.6 | 99 | 2.6 | 110 | 2.9 | 112 | 2.7 |
| Illawarra Shoalhaven | 213 | 6.4 | 227 | 6.5 | 212 | 5.6 | 220 | 5.8 | 241 | 5.9 |
| Western Sydney | 226 | 6.8 | 256 | 7.3 | 301 | 8.0 | 246 | 6.4 | 258 | 6.3 |
| Nepean Blue Mountains | 141 | 4.2 | 193 | 5.5 | 196 | 5.2 | 243 | 6.4 | 232 | 5.6 |
| Northern Sydney | 23 | 0.7 | 28 | 0.8 | 29 | 0.8 | 32 | 0.8 | 40 | 1.0 |
| Central Coast | 148 | 4.4 | 188 | 5.4 | 217 | 5.8 | 222 | 5.8 | 226 | 5.5 |
| Hunter New England | 867 | 25.9 | 893 | 25.6 | 932 | 24.8 | 975 | 25.5 | 1052 | 25.5 |
| Northern NSW | 222 | 6.6 | 257 | 7.4 | 235 | 6.3 | 241 | 6.3 | 225 | 5.5 |
| Mid North Coast | 224 | 6.7 | 228 | 6.5 | 251 | 6.7 | 248 | 6.5 | 234 | 5.7 |
| Southern NSW | 88 | 2.6 | 64 | 1.8 | 86 | 2.3 | 93 | 2.4 | 96 | 2.3 |
| Murrumbidgee | 149 | 4.5 | 160 | 4.6 | 190 | 5.1 | 172 | 4.5 | 215 | 5.2 |
| Western NSW | 592 | 17.7 | 548 | 15.7 | 583 | 15.5 | 610 | 16.0 | 630 | 15.3 |
| Far West | 46 | 1.4 | 46 | 1.3 | 46 | 1.2 | 43 | 1.1 | 42 | 1.0 |
| Other-not stated | 22 | 0.7 | 23 | 0.7 | 24 | 0.6 | 20 | 0.5 | 111 | 2.7 |
| TOTAL | 3348 | 100.0 | 3492 | 100.0 | 3756 | 100.0 | 3823 | 100.0 | 4118 | 100.0 |

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

Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown. The level of under-reporting varies between Local Health Districts (Table 72).

TABLE 79: LOCAL HEALTH DISTRICT OF RESIDENCE OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY AGE, NSW 2016[#]

| Local Health District | Maternal age (Years) | | | | | |
|-----------------------|----------------------|-------------|-------------|-------------|-------------|--------------|
| | Under 20 | | 20-plus | | TOTAL | |
| | No. | % | No. | % | No. | % |
| Sydney | 7 | 8.1 | 79 | 91.9 | 86 | 100.0 |
| South Western Sydney | 32 | 10.1 | 286 | 89.9 | 318 | 100.0 |
| South Eastern Sydney | 8 | 7.1 | 104 | 92.9 | 112 | 100.0 |
| Illawarra Shoalhaven | 29 | 12.0 | 212 | 88.0 | 241 | 100.0 |
| Western Sydney | 25 | 9.7 | 232 | 89.9 | 258 | 100.0 |
| Nepean Blue Mountains | 22 | 9.5 | 210 | 90.5 | 232 | 100.0 |
| Northern Sydney | - | - | - | - | 40 | 100.0 |
| Central Coast | 27 | 11.9 | 199 | 88.1 | 226 | 100.0 |
| Hunter New England | 155 | 14.7 | 897 | 85.3 | 1052 | 100.0 |
| Northern NSW | 32 | 14.2 | 193 | 85.8 | 225 | 100.0 |
| Mid North Coast | 36 | 15.4 | 198 | 84.6 | 234 | 100.0 |
| Southern NSW | 19 | 19.8 | 77 | 80.2 | 96 | 100.0 |
| Murrumbidgee | 31 | 14.4 | 184 | 85.6 | 215 | 100.0 |
| Western NSW | 83 | 13.2 | 547 | 86.8 | 630 | 100.0 |
| Far West | - | - | - | - | 42 | 100.0 |
| Other-not stated | 15 | 13.5 | 96 | 86.5 | 111 | 100.0 |
| TOTAL | 526 | 12.8 | 3591 | 87.2 | 4118 | 100.0 |

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

[#] Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown. The level of under-reporting varies between Local Health Districts (Table 72). Data not shown for cell counts less than five. Total includes one case where age was not stated.

Duration of pregnancy at first antenatal visit

Between 2012 and 2016, the proportion of Aboriginal or Torres Strait Islander mothers who commenced antenatal care at less than 14 weeks gestation increased from 51.0% to 64.6%, and the proportion that commenced antenatal care at less than 20 weeks gestation increased from 72.0% to 81.7% (Table 80). In contrast, 67.9% of non-Aboriginal or Torres Strait Islander mothers commenced antenatal care at less than 14 weeks gestation in 2016. Eighty-nine per cent of non-Aboriginal or Torres Strait Islander mothers commenced antenatal care at less than 20 weeks gestation. In 2016, the proportion of Aboriginal or Torres Strait Islander mothers who commenced antenatal care at less than 14 weeks gestation varied from 38.8% in the Western Sydney Local Health District to 81.1% in the Hunter New England Local Health District (Table 81).

TABLE 80: DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT AMONG ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2012–2016[#]

| Duration of pregnancy (weeks) | Year | | | | | | | | | |
|-------------------------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| 0–13 | 1707 | 51.0 | 1740 | 49.8 | 2044 | 54.4 | 2124 | 55.6 | 2662 | 64.6 |
| 14–19 | 703 | 21.0 | 798 | 22.9 | 788 | 21.0 | 781 | 20.4 | 704 | 17.1 |
| 20+ | 879 | 26.3 | 915 | 26.2 | 860 | 22.9 | 850 | 22.2 | 654 | 15.9 |
| Not stated | 59 | 1.8 | 39 | 1.1 | 64 | 1.7 | 68 | 1.8 | 98 | 2.4 |
| TOTAL | 3348 | 100.0 | 3492 | 100.0 | 3756 | 100.0 | 3823 | 100.0 | 4118 | 100.0 |

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

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

TABLE 81: DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT AMONG ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016*

| Local Health District | Duration of pregnancy at first antenatal visit (weeks) | | | | | | | | TOTAL | |
|-----------------------|--|-------------|------------|-------------|------------|-------------|------------|------------|-------------|--------------|
| | 0–13 | | 14–19 | | 20+ | | Not stated | | | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 66 | 76.7 | 11 | 12.8 | 6 | 7.0 | 3 | 3.5 | 86 | 100.0 |
| South Western Sydney | 193 | 60.7 | 57 | 17.9 | 47 | 14.8 | 21 | 6.6 | 318 | 100.0 |
| South Eastern Sydney | 56 | 50.0 | 34 | 30.4 | 21 | 18.8 | 1 | 0.9 | 112 | 100.0 |
| Illawarra Shoalhaven | 128 | 53.1 | 55 | 22.8 | 55 | 22.8 | 3 | 1.2 | 241 | 100.0 |
| Western Sydney | 100 | 38.8 | 83 | 32.2 | 63 | 24.4 | 12 | 4.7 | 258 | 100.0 |
| Nepean Blue Mountains | 114 | 49.1 | 65 | 28.0 | 49 | 21.1 | 4 | 1.7 | 232 | 100.0 |
| Northern Sydney | 28 | 70.0 | 10 | 25.0 | - | - | - | - | 40 | 100.0 |
| Central Coast | 98 | 43.4 | 65 | 28.8 | 63 | 27.9 | 0 | 0.0 | 226 | 100.0 |
| Hunter New England | 853 | 81.1 | 82 | 7.8 | 95 | 9.0 | 22 | 2.1 | 1052 | 100.0 |
| Northern NSW | 173 | 76.9 | 21 | 9.3 | 24 | 10.7 | 7 | 3.1 | 225 | 100.0 |
| Mid North Coast | 179 | 76.5 | 25 | 10.7 | 27 | 11.5 | 3 | 1.3 | 234 | 100.0 |
| Southern NSW | 46 | 47.9 | 25 | 26.0 | 24 | 25.0 | 1 | 1.0 | 96 | 100.0 |
| Murrumbidgee | 130 | 60.5 | 42 | 19.5 | 40 | 18.6 | 3 | 1.4 | 215 | 100.0 |
| Western NSW | 391 | 62.1 | 116 | 18.4 | 111 | 17.6 | 12 | 1.9 | 630 | 100.0 |
| Far West | 31 | 73.8 | 6 | 14.3 | 5 | 11.9 | 0 | 0.0 | 42 | 100.0 |
| Other-not stated | 76 | 68.5 | 7 | 6.3 | - | - | - | - | 111 | 100.0 |
| TOTAL | 2662 | 64.6 | 704 | 17.1 | 654 | 15.9 | 98 | 2.4 | 4118 | 100.0 |

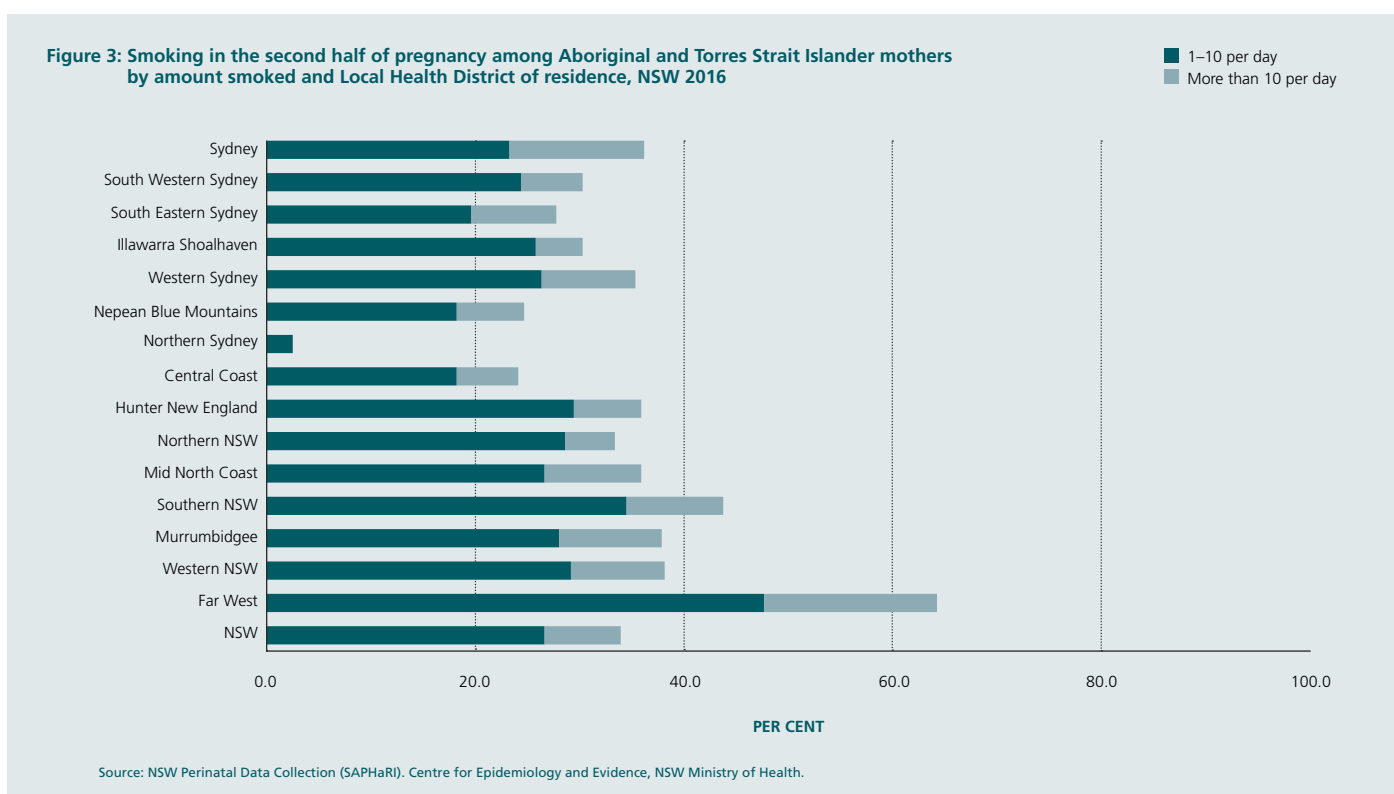
Source: NSW Perinatal Data Collection (SAPHaRI). Centre for Epidemiology and Evidence, NSW Ministry of Health.

Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown. The level of under-reporting varies between Local Health Districts (Table 72). Data not shown for cell counts less than five.

Smoking in pregnancy

In 2016, 41.3% of Aboriginal or Torres Strait Islander mothers reported smoking at some time during pregnancy, compared to 49.9% in 2012. This compares with 6.9% of non-Aboriginal or Torres Strait Islander mothers who reported smoking at some time during pregnancy in 2016.

Smoking in the second half of pregnancy poses the greatest risk to the health of both mother and baby. In 2016, 36.0% of Aboriginal or Torres Strait Islander mothers reported smoking in the second half of pregnancy. This percentage varied from 2.5% in the Northern Sydney Local Health District to 64.3% in the Far West Local Health District (Figure 3).



Medical conditions and obstetric complications

In 2016, there were similar rates of diabetes mellitus and chronic hypertension reported among Aboriginal or Torres Strait Islander mothers compared with non-Aboriginal or Torres Strait Islander mothers. However, the rate of gestational diabetes was lower among Aboriginal or Torres Strait Islander mothers (10.7%) than non-Aboriginal or Torres Strait Islander mothers (12.7%). Overall, the rate of hypertension in pregnancy was higher in Aboriginal or Torres Strait Islander mothers (6.8%) compared with non-Aboriginal or Torres Strait Islander mothers (5.2%) (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 2016^a

| Condition | Aboriginal or Torres Strait Islander | | Non-Aboriginal or Torres Strait Islander | | Not stated | | TOTAL | |
|--------------------------|--------------------------------------|--------------|--|--------------|------------|--------------|--------------|--------------|
| | No. | % | No. | % | No. | % | No. | % |
| Diabetes mellitus | 51 | 1.2 | 832 | 0.9 | 3 | 0.5 | 886 | 0.9 |
| Gestational diabetes | 441 | 10.7 | 11733 | 12.7 | 86 | 15.2 | 12260 | 12.6 |
| Chronic hypertension | 39 | 0.9 | 676 | 0.7 | 1 | 0.2 | 716 | 0.7 |
| Pre-eclampsia | 94 | 2.3 | 1454 | 1.6 | 9 | 1.6 | 1557 | 1.6 |
| Gestational hypertension | 147 | 3.6 | 2690 | 2.9 | 23 | 4.1 | 2860 | 2.9 |
| TOTAL | 4118 | 100.0 | 92623 | 100.0 | 565 | 100.0 | 97306 | 100.0 |

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

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

Labour and birth

The rate of spontaneous onset of labour among Aboriginal or Torres Strait Islander mothers fell from 59.3% in 2012 to 52.4% in 2016, while the rate of induction of labour increased from 26.6% to 31.2% (Table 83). The rate of spontaneous onset of labour was slightly higher among Aboriginal or Torres Strait Islander mothers compared to the rate of 48.3% reported among non-Aboriginal or Torres Strait Islander mothers in 2016.

Between 2012 and 2016, the rate of normal vaginal birth fell from 67.4% to 64.2%. The caesarean section rate rose from 25.2% to 28.3% (Table 84). The rate of instrumental delivery increased slightly from 6.7% to 7.0%, and there was also a slight drop in the rate of vaginal breech births from 0.7% to 0.5%.

TABLE 83: LABOUR ONSET FOR ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2012–2016^a

| Labour Onset | Year | | | | | | | | | |
|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Spontaneous | 1984 | 59.3 | 1993 | 57.1 | 2028 | 54.0 | 2038 | 53.3 | 2157 | 52.4 |
| Induced | 891 | 26.6 | 996 | 28.5 | 1152 | 30.7 | 1202 | 31.4 | 1284 | 31.2 |
| No labour* | 472 | 14.1 | 503 | 14.4 | 575 | 15.3 | 583 | 15.2 | 671 | 16.3 |
| Not stated | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 0 | 0.0 | 6 | 0.1 |
| TOTAL | 3348 | 100.0 | 3492 | 100.0 | 3756 | 100.0 | 3823 | 100.0 | 4118 | 100.0 |

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

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

* No labour indicates elective caesarean section.

TABLE 84: TYPE OF BIRTH AMONG ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2012–2016^a

| Type of birth | Year | | | | | | | | | |
|------------------------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Normal vaginal | 2256 | 67.4 | 2332 | 66.8 | 2456 | 65.4 | 2519 | 65.9 | 2642 | 64.2 |
| Forceps | 82 | 2.4 | 102 | 2.9 | 99 | 2.6 | 94 | 2.5 | 111 | 2.7 |
| Vacuum extraction | 143 | 4.3 | 143 | 4.1 | 145 | 3.9 | 160 | 4.2 | 178 | 4.3 |
| Vaginal breech | 22 | 0.7 | 26 | 0.7 | 16 | 0.4 | 16 | 0.4 | 19 | 0.5 |
| Elective caesarean section | 472 | 14.1 | 503 | 14.4 | 575 | 15.3 | 583 | 15.2 | 671 | 16.3 |
| Emergency caesarean section* | 372 | 11.1 | 386 | 11.1 | 464 | 12.4 | 451 | 11.8 | 496 | 12.0 |
| Not stated | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 |
| TOTAL | 3348 | 100.0 | 3492 | 100.0 | 3756 | 100.0 | 3823 | 100.0 | 4118 | 100.0 |

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

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

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

Birth weight

Since 2012, the rate of low birth weight (less than 2,500 grams) in Aboriginal or Torres Strait Islander babies has been 10% or greater and was 10.8% in 2016 (Table 85). This is higher than the rate for babies born to non-Aboriginal or Torres Strait Islander mothers, which was 6.3% in 2016. In 2016, 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 STRAIT ISLANDER MOTHERS, NSW 2012–2016[#]

| Birth weight (grams) | Year | | | | | | | | | |
|----------------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Less than 1,000 | 45 | 1.3 | 33 | 0.9 | 42 | 1.1 | 29 | 0.7 | 54 | 1.3 |
| 1,000–1,499 | 24 | 0.7 | 36 | 1.0 | 37 | 1.0 | 45 | 1.2 | 39 | 0.9 |
| 1,500–2,499 | 305 | 9.0 | 334 | 9.4 | 350 | 9.2 | 363 | 9.4 | 357 | 8.6 |
| 2,500+ | 3022 | 88.9 | 3136 | 88.5 | 3374 | 88.6 | 3431 | 88.6 | 3722 | 89.2 |
| Not stated | 3 | 0.1 | 3 | 0.1 | 5 | 0.1 | 4 | 0.1 | 2 | 0.0 |
| TOTAL | 3399 | 100.0 | 3542 | 100.0 | 3808 | 100.0 | 3872 | 100.0 | 4174 | 100.0 |

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

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

TABLE 86: WEIGHT OF BABIES BORN TO ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016[#]

| Local Health District | Birth Weight (grams) | | | | | | | |
|-----------------------|----------------------|-------------|-------------|-------------|------------|------------|-------------|--------------|
| | < 2,500 | | 2,500+ | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % |
| Sydney | 11 | 12.8 | 75 | 87.2 | 0 | 0.0 | 86 | 100.0 |
| South Western Sydney | 41 | 12.6 | 284 | 87.4 | 0 | 0.0 | 325 | 100.0 |
| South Eastern Sydney | 7 | 6.2 | 106 | 93.8 | 0 | 0.0 | 113 | 100.0 |
| Illawarra Shoalhaven | 25 | 10.1 | 222 | 89.9 | 0 | 0.0 | 247 | 100.0 |
| Western Sydney | 29 | 11.0 | 234 | 89.0 | 0 | 0.0 | 263 | 100.0 |
| Nepean Blue Mountains | 16 | 6.9 | 216 | 93.1 | 0 | 0.0 | 232 | 100.0 |
| Northern Sydney | – | – | 38 | 92.7 | 0 | 0.0 | 41 | 100.0 |
| Central Coast | 22 | 9.5 | 210 | 90.5 | 0 | 0.0 | 232 | 100.0 |
| Hunter New England | 118 | 11.1 | 944 | 88.9 | 0 | 0.0 | 1062 | 100.0 |
| Northern NSW | 18 | 8.0 | 207 | 91.6 | 1 | 0.4 | 226 | 100.0 |
| Mid North Coast | 27 | 11.4 | 209 | 88.2 | 1 | 0.4 | 237 | 100.0 |
| Southern NSW | 9 | 9.3 | 88 | 90.7 | 0 | 0.0 | 97 | 100.0 |
| Murrumbidgee | 32 | 14.7 | 186 | 85.3 | 0 | 0.0 | 218 | 100.0 |
| Western NSW | 74 | 11.6 | 566 | 88.4 | 0 | 0.0 | 640 | 100.0 |
| Far West | – | – | 38 | 90.5 | 0 | 0.0 | 42 | 100.0 |
| Other-not stated | 14 | 12.4 | 99 | 87.6 | 0 | 0.0 | 113 | 100.0 |
| TOTAL | 450 | 10.8 | 3722 | 89.2 | 2 | 0.0 | 4174 | 100.0 |

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

[#] Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of babies are higher than shown. The level of under-reporting varies between Local Health Districts (Table 72). Data not shown for cell counts less than five.

Gestational age

Since 2012, over 11% of Aboriginal or Torres Strait Islander babies have been premature (less than 37 weeks gestation) (Table 87). The rate of prematurity was 11.2% in 2016, compared with a rate of 7.1% for babies born to non-Aboriginal or Torres Strait Islander mothers. In 2016, the largest number of premature babies was in the Hunter New England Local Health District (Table 88).

TABLE 87: GESTATIONAL AGE OF BABIES BORN TO ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2012–2016[#]

| Gestational age (weeks) | Year | | | | | | | | | |
|-------------------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| < 28 | 45 | 1.3 | 35 | 1.0 | 39 | 1.0 | 36 | 0.9 | 49 | 1.2 |
| 28–31 | 38 | 1.1 | 44 | 1.2 | 54 | 1.4 | 60 | 1.5 | 53 | 1.3 |
| 32–36 | 367 | 10.8 | 369 | 10.4 | 400 | 10.5 | 396 | 10.2 | 364 | 8.7 |
| 37–41 | 2927 | 86.1 | 3076 | 86.8 | 3299 | 86.6 | 3361 | 86.8 | 3651 | 87.5 |
| 42+ | 21 | 0.6 | 17 | 0.5 | 15 | 0.4 | 17 | 0.4 | 49 | 1.2 |
| Not stated | 1 | 0.0 | 1 | 0.0 | 1 | 0.0 | 2 | 0.1 | 8 | 0.2 |
| TOTAL | 3399 | 100.0 | 3542 | 100.0 | 3808 | 100.0 | 3872 | 100.0 | 4174 | 100.0 |

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

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

TABLE 88: GESTATIONAL AGE OF BABIES BORN TO ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016[#]

| Local Health District | Gestational age (weeks) | | | | | | | |
|-----------------------|-------------------------|-------------|-------------|-------------|------------|------------|-------------|--------------|
| | Less than 37 | | 37+ | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % |
| Sydney | 13 | 15.1 | 72 | 83.7 | 1 | 1.2 | 86 | 100.0 |
| South Western Sydney | 42 | 12.9 | 277 | 85.2 | 6 | 1.8 | 325 | 100.0 |
| South Eastern Sydney | 11 | 9.7 | 101 | 89.4 | 1 | 0.9 | 113 | 100.0 |
| Illawarra Shoalhaven | 27 | 10.9 | 220 | 89.1 | 0 | 0.0 | 247 | 100.0 |
| Western Sydney | 36 | 13.7 | 227 | 86.3 | 0 | 0.0 | 263 | 100.0 |
| Nepean Blue Mountains | 18 | 7.8 | 214 | 92.2 | 0 | 0.0 | 232 | 100.0 |
| Northern Sydney | 6 | 14.6 | 35 | 85.4 | 0 | 0.0 | 41 | 100.0 |
| Central Coast | 25 | 10.8 | 207 | 89.2 | 0 | 0.0 | 232 | 100.0 |
| Hunter New England | 102 | 9.6 | 960 | 90.4 | 0 | 0.0 | 1062 | 100.0 |
| Northern NSW | 22 | 9.7 | 204 | 90.3 | 0 | 0.0 | 226 | 100.0 |
| Mid North Coast | 25 | 10.5 | 212 | 89.5 | 0 | 0.0 | 237 | 100.0 |
| Southern NSW | 12 | 12.4 | 85 | 87.6 | 0 | 0.0 | 97 | 100.0 |
| Murrumbidgee | 29 | 13.3 | 189 | 86.7 | 0 | 0.0 | 218 | 100.0 |
| Western NSW | 83 | 13.0 | 557 | 87.0 | 0 | 0.0 | 640 | 100.0 |
| Far West | – | – | 40 | 95.2 | 0 | 0.0 | 42 | 100.0 |
| Other-not stated | 13 | 11.5 | 100 | 88.5 | 0 | 0.0 | 113 | 100.0 |
| TOTAL | 466 | 11.2 | 3700 | 88.6 | 8 | 0.2 | 4174 | 100.0 |

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

[#] Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of babies are higher than shown. The level of under-reporting varies between Local Health Districts (Table 72). Data not shown for cell counts less than five.

Apgar score

In 2016, 3.5% of Aboriginal or Torres Strait Islander babies had an Apgar score less than 7 at 5 minutes (Table 89), which is higher than the rate of 2.2% for babies born to non-Aboriginal or Torres Strait Islander mothers.

TABLE 89: APGAR SCORE OF BABIES BORN TO ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2012–2016[#]

| Apgar score at 5 minutes | Year | | | | | | | | | |
|--------------------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| 0-4 | 50 | 1.5 | 58 | 1.6 | 61 | 1.6 | 58 | 1.5 | 63 | 1.5 |
| 5-6 | 59 | 1.7 | 46 | 1.3 | 75 | 2.0 | 75 | 1.9 | 82 | 2.0 |
| 7+ | 3270 | 96.2 | 3434 | 97.0 | 3657 | 96.0 | 3720 | 96.1 | 3977 | 95.3 |
| Not stated | 20 | 0.6 | 4 | 0.1 | 15 | 0.4 | 19 | 0.5 | 52 | 1.2 |
| TOTAL | 3399 | 100.0 | 3542 | 100.0 | 3808 | 100.0 | 3872 | 100.0 | 4174 | 100.0 |

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

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

Infant feeding

In 2016, 62.8% of babies born to Aboriginal or Torres Strait Islander mothers were fully breastfed at discharge from hospital, 8.0% were partially breastfed and 25.2% received infant formula only (Table 90). This compares with 75.4% of babies born to non-Aboriginal or Torres Strait Islander mothers who were fully breastfed in 2016. Rates of full breastfeeding ranged from 45.7% in the South Western Sydney Local Health District to 76.9% in the Northern NSW Local Health District.

TABLE 90: INFANT FEEDING AMONG LIVEBORN BABIES OF ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS BY LOCAL HEALTH DISTRICT OF RESIDENCE, NSW 2016[#]

| Local Health District | Infant feeding | | | | | | | | | |
|-----------------------|--------------------|-------------|-------------------|------------|---------------------|-------------|------------|------------|-------------|--------------|
| | Full breastfeeding | | Any breastfeeding | | Infant formula only | | Not stated | | TOTAL | |
| | No. | % | No. | % | No. | % | No. | % | No. | % |
| Sydney | 48 | 56.5 | 14 | 16.5 | 22 | 25.9 | 1 | 1.2 | 85 | 100.0 |
| South Western Sydney | 148 | 45.7 | 35 | 10.8 | 81 | 25.0 | 60 | 18.5 | 324 | 100.0 |
| South Eastern Sydney | 74 | 66.1 | 20 | 17.9 | 16 | 14.3 | 2 | 1.8 | 112 | 100.0 |
| Illawarra Shoalhaven | 149 | 60.6 | 15 | 6.1 | 79 | 32.1 | 3 | 1.2 | 246 | 100.0 |
| Western Sydney | 133 | 50.8 | 23 | 8.8 | 95 | 36.3 | 11 | 4.2 | 262 | 100.0 |
| Nepean Blue Mountains | 145 | 63.9 | 18 | 7.9 | 59 | 26.0 | 5 | 2.2 | 227 | 100.0 |
| Northern Sydney | 31 | 75.6 | 5 | 12.2 | 5 | 12.2 | 0 | 0.0 | 41 | 100.0 |
| Central Coast | 171 | 74.3 | 17 | 7.4 | 39 | 17.0 | 3 | 1.3 | 230 | 100.0 |
| Hunter New England | 691 | 65.5 | 74 | 7.0 | 259 | 24.5 | 31 | 2.9 | 1055 | 100.0 |
| Northern NSW | 173 | 76.9 | 15 | 6.7 | 28 | 12.4 | 9 | 4.0 | 225 | 100.0 |
| Mid North Coast | 170 | 72.3 | 17 | 7.2 | 39 | 16.6 | 9 | 3.8 | 235 | 100.0 |
| Southern NSW | 72 | 75.0 | 8 | 8.3 | 14 | 14.6 | 2 | 2.1 | 96 | 100.0 |
| Murrumbidgee | 128 | 59.0 | 7 | 3.2 | 76 | 35.0 | 6 | 2.8 | 217 | 100.0 |
| Western NSW | 371 | 59.0 | 47 | 7.5 | 196 | 31.2 | 15 | 2.4 | 629 | 100.0 |
| Far West | 23 | 54.8 | - | - | 13 | 31.0 | 2 | 4.8 | 42 | 100.0 |
| Other-not stated | 73 | 65.2 | 11 | 9.8 | 21 | 18.8 | 7 | 6.3 | 112 | 100.0 |
| TOTAL | 2600 | 62.8 | 330 | 8.0 | 1042 | 25.2 | 166 | 4.0 | 4138 | 100.0 |

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

[#] Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of babies are higher than shown. The level of under-reporting varies between Local Health Districts (Table 72). Data not shown for cell counts less than five.

Perinatal mortality

Between 2012 and 2016, the perinatal mortality rate among Aboriginal or Torres Strait Islander babies has varied between 9.6 and 12.3 per 1,000 births (Table 91). The rate of 12.2 per 1,000 births in Aboriginal or Torres Strait Islander mothers in 2016 is higher than the rate of 7.3 per 1,000 births experienced among babies born to non-Aboriginal or Torres Strait Islander mothers.

TABLE 91: PERINATAL DEATHS AMONG BABIES BORN TO ABORIGINAL AND TORRES STRAIT ISLANDER MOTHERS, NSW 2012–2016[#]

| Perinatal deaths | Year | | | | | | | | | |
|------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | |
| | No. | Rate/ 1,000 | No. | Rate/ 1,000 | No. | Rate/ 1,000 | No. | Rate/ 1,000 | No. | Rate/ 1,000 |
| Stillborn | 28 | 8.2 | 26 | 7.3 | 33 | 8.7 | 34 | 8.8 | 36 | 8.6 |
| Neonatal death | 13 | 3.8 | 13 | 3.7 | 14 | 3.7 | 3 | 0.8 | 15 | 3.6 |
| TOTAL | 41 | 12.1 | 39 | 11.0 | 47 | 12.3 | 37 | 9.6 | 51 | 12.2 |

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

[#] Perinatal deaths include deaths reported to the PDC only. As the PDC form is completed at discharge or transfer of the baby, deaths occurring after this time may not be reported to the PDC. Due to under-reporting of Aboriginal mothers to the PDC, it is likely that the true numbers of mothers are higher than shown (Table 74).

9. APPENDICES

Appendix 1: Glossary of terms

Aboriginal and Torres Strait Islander

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

Apgar score

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

Augmentation

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

Birth weight

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

Caesarean section

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

Confinement

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

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

Breastfeeding

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

Place of residence of mother

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

Labour

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

Maternity service level

The maternity service levels for 2016 have been applied to the data in this report. These are explained in the *NSW Health Guide to the Role Delineation of Clinical Services (2016)*, which provides a consistent language for describing clinical services delivered by public hospitals and health services. This guide delineates the level of clinical services, not hospitals or health facilities as a whole.

The *NSW Maternity and Neonatal Service Capability Framework (GL2016_018)* is used to guide services by identifying the scope of planned activity for each service capability level. It provides a mechanism for Local Health Districts to assess the planned service capability of their facilities.

For further information on role delineation levels for individual sites, please contact the relevant Local Health District.

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 notification 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 overall ascertainment of perinatal deaths for calculation of rates.

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

| | | | | | |
|--|--|-------------------------------|---------------------------------------|----------------------------------|-----------------------------------|
| English speaking | Southern Europe | Georgia | Madagascar | North East Asia | Honduras |
| Australia | Albania | Hungary | Malawi | China (excludes SARs and Taiwan) | Jamaica |
| Australian External Territories, NEC* | Andorra | Kazakhstan | Mali | Hong Kong (SAR of China) | Martinique |
| Bermuda | Bosnia and Herzegovina | Kyrgyzstan | Mauritania | Japan | Mexico |
| Canada | Bulgaria | Latvia | Mauritius | Korea, Democratic | Montserrat |
| England | Croatia | Lithuania | Mayotte | People's Republic of (North) | Nicaragua |
| Guernsey | Cyprus | Poland | Morocco | Korea, Republic of (South) | Panama |
| Ireland | Former Yugoslav Republic of Macedonia (FYROM) | Russian Federation (not USSR) | Mozambique | Macau (SAR of China) | Paraguay |
| Isle of Man | Gibraltar | Slovakia | Namibia | Mongolia | Peru |
| Jersey | Greece | Tajikistan | Niger | Taiwan | Puerto Rico |
| New Zealand | Holy See | Turkmenistan | Nigeria | | Sint Maarten (Dutch part) |
| Norfolk Island | Italy | Ukraine | Oman | | South America, NEC* |
| Northern Ireland | Kosovo | Uzbekistan | Qatar | | St Barthelemy |
| Scotland | Malta | Middle East and Africa | Reunion | | St Kitts and Nevis |
| South Africa | Moldova | Algeria | Rwanda | Southern Asia | St Lucia |
| St Pierre and Miquelon | Montenegro | Angola | Sao Tome and Principe | Bangladesh | St Martin (French part) |
| United States of America | Portugal | Bahrain | Saudi Arabia | Bhutan | St Vincent and the Grenadines |
| Wales | Romania | Benin | Senegal | India | Suriname |
| | San Marino | Botswana | Seychelles | Maldives | Trinidad and Tobago |
| Melanesia, Micronesia & Polynesia | Serbia | Burkina Faso | Sierra Leone | Nepal | Turks and Caicos Islands |
| Cook Islands | Slovenia | Burundi | Somalia | Pakistan | Uruguay |
| Fiji | Spain | Cameroon | South Sudan | Sri Lanka | Venezuela, Bolivarian Republic of |
| French Polynesia | Western and Northern Europe | Cape Verde | Southern and East Africa, NEC* | | Virgin Islands, British |
| Guam | Aland Islands | Central African Republic | Spanish North Africa | Central and South America | Virgin Islands, United States |
| Kiribati | Austria | Chad | St Helena | Anguilla | |
| Marshall Islands | Belgium | Comoros | Sudan | Antigua and Barbuda | |
| Micronesia, Federated States of | Denmark | Congo, Democratic Republic of | Swaziland | Argentina | |
| Nauru | Faroe Islands | Congo, Republic of | Syria | Aruba | |
| New Caledonia | Finland | Cote d'Ivoire | Tanzania | Bahamas | |
| Niue | France | Djibouti | Togo | Barbados | |
| Northern Mariana Islands | Germany | Egypt | Tunisia | Belize | |
| Palau | Greenland | Equatorial Guinea | Turkey | Bolivia, Plurinational State of | |
| Papua New Guinea | Iceland | Eritrea | Uganda | Bonaire, Sint Eustatius and Saba | |
| Pitcairn Islands | Liechtenstein | Ethiopia | United Arab Emirates | Brazil | |
| Polynesia (excludes Hawaii), NEC* | Luxembourg | Gabon | Western Sahara | Cayman Islands | |
| Samoa | Monaco | Gambia, Republic of | Yemen | Chile | |
| Samoa, American | Netherlands | Gaza Strip and West Bank | Zambia | Colombia | |
| Solomon Islands | Norway | Ghana | Zimbabwe | Costa Rica | |
| Tokelau | Sweden | Guinea | | Cuba | |
| Tonga | Switzerland | Guinea-Bissau | South East Asia | Curacao | |
| Tuvalu | Eastern Europe, Russia and Central Asian States | Iran | Brunei Darussalam | Dominica | |
| Vanuatu | Afghanistan | Iraq | Cambodia | Dominican Republic | |
| Wallis and Futuna | Armenia | Israel | Indonesia | Ecuador | |
| | Azerbaijan | Jordan | Laos | El Salvador | |
| | Belarus | Kenya | Malaysia | Falkland Islands | |
| | Czech Republic | Kuwait | Myanmar, The Republic of the Union of | French Guiana | |
| | Estonia | Lebanon | Philippines | Grenada | |
| | | Lesotho | Singapore | Guadeloupe | |
| | | Liberia | Thailand | Guatemala | |
| | | Libya | Timor-Leste | Guyana | |
| | | | Vietnam | Haiti | |

* NEC = Not elsewhere classified.

