

|  |
| --- |
| Births in Victoria |
| Victoria’s Mothers, Babies and Children 2016 |

# 4. Births in Victoria

Table of Contents

[4. Births in Victoria 1](#_Toc505009265)

[Table 4.1: Total births in Victoria, 2016 3](#_Toc505009266)

[Table 4.2: Crude birth rate, Victoria 2016 4](#_Toc505009267)

[Table 4.3: Trends in births, confinements and livebirths per 1,000 ERFPa aged 15-44 years, Victoria 1985 to 2016 5](#_Toc505009268)

[Table 4.4 : Maternal age group, adjusted confinements 2016 6](#_Toc505009269)

[Table 4.5: Trends in maternal age group, % of adjusted confinements 1985 to 2016 7](#_Toc505009270)

[Figure 4.1: Trends in maternal age group, adjusted confinements 1985 to 2016 (%) 8](#_Toc505009271)

[Table 4.6: Trends in maternal place of residence, adjusted confinements, Department of Health regions, 1990 to 2016 9](#_Toc505009272)

[Table 4.7: Trends in marital status, adjusted confinements 1990 to 2016 (%) 10](#_Toc505009273)

[Table 4.8: Maternal place of birtha, adjusted confinements 2016 11](#_Toc505009274)

[Table 4.9: Ten most common countries of birth, for women born in non-English speaking countries, adjusted confinements in 1990, 2000, 2010, 2015 and 2016 12](#_Toc505009275)

[Table 4.10: Maternal BMI, adjusted confinements 2016 13](#_Toc505009276)

[Table 4.11: Proportion of women reporting any smoking during first 20 weeks of pregnancy, adjusted confinements, Victoria 2016 14](#_Toc505009277)

[Table 4.12: IRSD quintile and maternal age, adjusted confinements 2016 (%) 15](#_Toc505009278)

[Table 4.13: IRSD quintile and place of residence, adjusted confinements 2016 (%) 16](#_Toc505009279)

[Table 4.14: Admission status, adjusted confinements 2016 17](#_Toc505009280)

[Table 4.15: Age of women planning public or private home confinements, 2016 18](#_Toc505009281)

[Table 4.16: Actual place of birth for planned home confinements, 2016 19](#_Toc505009282)

[Table 4.17: Time of change in plan for women who planned public or private home confinements and gave birth in hospital, 2016 20](#_Toc505009283)

[Table 4.18: Trends in admission status, adjusted confinements 2000 to 2016 (%) 21](#_Toc505009284)

[Figure 4.2: Admission for the birth as a public patient by maternal age group, adjusted confinements 2016 (%) 22](#_Toc505009285)

[Table 4.19: Actual place of birth, adjusted confinements 2016 23](#_Toc505009286)

[Table 4.20: Trend in number of women achieving planned home confinements, 1990 to 2016 24](#_Toc505009287)

[Table 4.21: Trends in parity, adjusted confinements, 1990 to 2016 25](#_Toc505009288)

[Table 4.22: Number of previous caesarean sections, of women who had one or more prior births, 2000 to 2016 26](#_Toc505009289)

[Table 4.23: Trends in gestation, adjusted confinements 1990 to 2016 (%) 27](#_Toc505009290)

[Table 4.24: Onset of labour, adjusted confinements 2016 28](#_Toc505009291)

[Figure 4.3: Trends in onset of labour, adjusted confinements 1990 to 2016 (%) 29](#_Toc505009292)

[Figure 4.4: Onset of labour by admission status, adjusted confinements 2016 (%) 30](#_Toc505009293)

[Table 4.25: Fetal monitoring in labour (of women who experienced labour), 2016 31](#_Toc505009294)

[Table 4.26: Method of birth, adjusted confinements, 2016 32](#_Toc505009295)

[Figure 4.5: Trends in method of birth, adjusted confinements, 1985 to 2016 (%) 33](#_Toc505009296)

[Table 4.27: Method of birth by onset of labour, adjusted confinements 2016 34](#_Toc505009297)

[Table 4.28: Method of birth by admission status, adjusted confinements 2016 35](#_Toc505009298)

[Figure 4.6: Method of birth by admission status, adjusted confinements 2016 35](#_Toc505009299)

[Table 4.29: Method of birth by presentation, adjusted confinements 2016 36](#_Toc505009300)

[Table 4.30: Epidural analgesia for women who experienced labour, adjusted confinements 2016 37](#_Toc505009301)

[Table 4.31: Type of anaesthesia for operative vaginal birth, adjusted confinements 2016 38](#_Toc505009302)

[Table 4.32: Type of anaesthesia for caesarean birth, adjusted confinements 2016 39](#_Toc505009303)

[Table 5433: 3rd and 4th degree lacerations following vaginal birth by admission type and parity, adjusted confinements 2016 40](#_Toc505009304)

[Table 4.34: Episiotomy for vaginal birth by admission type and parity, adjusted confinements 2016 41](#_Toc505009305)

[Table 4.35: Estimated blood loss and blood transfusion by parity, adjusted confinements 2016 42](#_Toc505009306)

[Table 4.36: Women given prophylactic oxytocics in the third stage of labour, adjusted confinements, 2016 43](#_Toc505009307)

[Table 4.37 : Initiation of breastfeeding (women with a live birth), 2016 44](#_Toc505009308)

[Table 4.38: Term, live-born babies whose mothers initiated breastfeeding given formula in hospital, 2016 45](#_Toc505009309)

[Table 4.39: Term, live-born babies whose mothers initiated breastfeeding having their last feed before discharge entirely and directly from the breast, 2016 46](#_Toc505009310)

[Table 4.40: Gestation in completed weeks for adjusted total births, 2016 47](#_Toc505009311)

[Table 4.41 : Neonatal capability level\* of maternity service for birth at various gestations (completed weeks) 2016 48](#_Toc505009312)

[Table 4.42 : Birth weight categories, adjusted total births 2016 49](#_Toc505009313)

[Figure 4.8 Trends in low birth weight (<1,500g, <2,500 g) and birth weight ≥ 4500 g, adjusted total births, 1985-2016 50](#_Toc505009314)

[Table 4.43 Apgar score at five minutes, 2016 (adjusted live births) 50](#_Toc505009315)

[Table 4.44 : Method of resuscitation used, 2016 (adjusted live births only) 51](#_Toc505009316)

[Table 4.45 : Multiple births, adjusted total births, 2016 52](#_Toc505009317)

[Table 4.46: Trends in multiple births, adjusted total births, 1990 to 2016 52](#_Toc505009318)

[Table 4.47: Multiple birth by maternal age group, adjusted confinements 2016 (% of mothers in each age group) 53](#_Toc505009319)

[Table 4.48: Gestation by plurality, adjusted confinements 2016 54](#_Toc505009320)

[Table 4.49: Method of birth for singleton and multiple births, adjusted confinements 2016\* 55](#_Toc505009321)

[Table 4.50: Trends in adjusted total births and adjusted confinements to Aboriginal women, 1985 to 2015 56](#_Toc505009322)

[Figure 4.9 : Trends in percentage of all adjusted confinements to Aboriginal women 2000 – 2016 58](#_Toc505009323)

[Table 4.51: Maternal age by Aboriginal status, adjusted confinements 2016 60](#_Toc505009324)

[Table 4.52: Birth weight by maternal Aboriginal status, adjusted total births 2016 61](#_Toc505009325)

[Table 4.53: Birth weight by maternal and baby Aboriginal status, adjusted total births 2016 61](#_Toc505009326)

[Table 4.54: Proportion of women smoked at all during pregnancy by Aboriginal status, adjusted confinements, Victoria 2016 62](#_Toc505009327)

[Table 4.55: Maternal Body Mass Index by Aboriginal status, adjusted confinements 2016 63](#_Toc505009328)

[Table 4.56: Gestation by maternal Aboriginal status, adjusted total births 2016 64](#_Toc505009329)

[Table 4.57: Gestation by maternal and/or baby Aboriginal status, adjusted total births 2016 64](#_Toc505009330)

## Table 4.1: Total births in Victoria, 2016

|  |  |
| --- | --- |
|   | 2016 |
| Births |
| Total births (Q)a | 80,859 |
| Total stillbirths (G) | 626 |
| Total live births (C) | 80,233 |
| Terminations of pregnancy – TOP (Riii)b | 310 |
| **Adjusted birthsc** |
| Adjusted total births (E + I)c | 80,549 |
| Adjusted live births (E)c | 80,200 |
| Adjusted stillbirths (I)c | 349 |
| **Confinements** |
| Total confinements | 79,621 |
| Adjusted confinementsc | 79,319 |
| **Crude birth rated** | 61.4 |
| Births excluded from CCOPMM reporte (P) | 59 |

1. Letters in parentheses refer to numbers or formulae in Appendix 3.
2. Terminations of pregnancy at 20 or more weeks' gestation for congenital anomalies or maternal psychosocial indications.
3. Adjusted figures exclude terminations of pregnancy for congenital anomalies or for maternal psychosocial indications.
4. Based on estimated female resident population (EFRP) at 30 June 2016 - ABS 2017, Estimated Resident Population By Single Year Of Age, Victoria, cat. No. 3101.0 Australian Demographic Statistics. Births to women younger than 15 years are included in the 15-19 age group and women aged 45 or older are included in the 40-44 age group.
5. Cases excluded from the report were known to have died before 20 weeks' gestation or had a birthweight <150g.

## Table 4.2: Crude birth rate, Victoria 2016

|  |  |
| --- | --- |
|  | 2016 |
| Adjusted live births | 80,200 |
| Estimated female resident population aged 15–44 years a | 1,306,020 |
| Crude birth rate per 1,000 EFRPb | 61.4 |

1. Based on estimated female resident population (ERFP) at 30 June 2016 - ABS 2017, Estimated Resident Population By Single Year Of Age, Victoria, cat. No. 3101.0 Australian Demographic Statistics.
2. Births to women younger than 15 years are included in the 15-19 age group and women aged 45 or older are included in the 40-44 age group.
3. Note: Adjusted live births total is (E) in Appendix 3. See also Table 4.1

## Table 4.3: Trends in births, confinements and livebirths per 1,000 ERFPa aged 15-44 years, Victoria 1985 to 2016

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2016 |
| Adjusted total births | 61,189 | 66,878 | 64,717 | 62,555 | 66,340 | 74,,127 | 78,961 | 80,549 |
| Adjusted live births | 60,784 | 66,374 | 63,247 | 62,148 | 65,993 | 73,731 | 78,606 | 80,200 |
| Adjusted confinements | 60,468 | 66,004 | 62,734 | 61,562 | 65,115 | 72,914 | 77,752 | 79,319 |
| EFRPa | 974,347 | 1,044,969 | 1,033,818 | 1,053,114 | 1,082,355 | 1,170,211 | 1,259,172 | 1,306,020 |
| Live births per 1,000 EFRPb | 62.4 | 63.5 | 61.2 | 59.0 | 61.0 | 63.0 | 62.4 | 61.4 |

1. Based on estimated female resident population (ERFP) at 30 June 2016 - ABS 2017, Estimated Resident Population By Single Year Of Age, Victoria, cat. No. 3101.0 Australian Demographic Statistics.
2. Births to women younger than 15 years are included in the 15-19 age group and women aged 45 or older are included in the 40-44 age group.

Note: For 2016 adjusted total births is (T) [T=E + I) and adjusted live births total is (E) in Appendix 3. See also Table 4.1.

## Table 4.4 : Maternal age group, adjusted confinements 2016

|  |  |
| --- | --- |
| Maternal age group | 2016 |
| n | % |
| Younger than 20 years |  1,169 | *1.5* |
| 20–24 years |  7,594  | *9.6* |
| 25–29 years |  20,353  | *25.7* |
| 30–34 years |  30,093  | *37.9* |
| 35–39 years |  16,286  | *20.5* |
| 40-44 |  3,546  | *4.5* |
| 45+ years |  271  | *0.3* |
| Unknown |  7  | *0.0* |
| Total |  79,319  | *100.0* |

Note: Adjusted confinements - see Table 4.1

## Table 4.5: Trends in maternal age group, % of adjusted confinements 1985 to 2016

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Maternal age group | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2016 |
| Younger than 20 years | 4.5 | 4.3 | 3.5 | 3.3 | 2.7 | 2.4 | 1.6 | 1.5 |
| 20–24 years | 23.1 | 18.3 | 15.6 | 12.4 | 11.3 | 11.2 | 10.1 | 9.6 |
| 25–29 years | 40.2 | 37.6 | 33.5 | 30.7 | 25.4 | 26.4 | 26.0 | 25.7 |
| 30–34 years | 24.4 | 29 | 32.8 | 34.6 | 37 | 33.9 | 37.3 | 37.9 |
| 35–39 years | 6.9 | 9.3 | 12.5 | 16.2 | 19.9 | 21.3 | 20.3 | 20.5 |
| 40+ years | 0.9 | 1.4 | 2.1 | 2.9 | 3.7 | 4.7 | 4.7 | 4.8 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Median age – overall (years) | 27 | 28 | 29 | 30 | 31 | 31 | 31 | 31.0 |
| Median age – primiparae (years) | 25 | 26 | 27 | 28 | 29 | 29 | 30 | 30.0 |
| Mean age – overall (years) | 27.5 | 28.2 | 29.1 | 29.9 | 30.6 | 31.3 | 31.0 | 31.1 |
| Mean age – primiparae (years) | 25.4 | 26.2 | 27.2 | 28.2 | 29.1 | 29.6 | 29.6 | 29.7 |

## Figure 4.1: Trends in maternal age group, adjusted confinements 1985 to 2016 (%)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Younger than 20 years | 4.4 | 4.3 | 3.5 | 3.3 | 2.7 | 2.4 | 2.3 | 2.2 | 2.0 | 1.6 |  1.5 |
| 35+ years | 7.8 | 10.6 | 14.6 | 19.1 | 23.6 | 26.0 | 25.1 | 25.1 | 24.4 | 25.0 |  25.3 |

## Table 4.6: Trends in maternal place of residence, adjusted confinements, Department of Health regions, 1990 to 2016

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Department of Health regions | 1990 | 2000 | 2010 | 2015 | 2016 |
|   | n | % | n | % | n | % | n | % | n | % |
| Barwon-South West | 4,780 | 7.2 | 4,001 | 6.5 | 4,353 | 6 | 4,563 | 5.7 | 4,540 | 5.7 |
| Grampians | n/a | n/a | 2,838 | 4.6 | 2,630 | 3.6 | 2,797 | 3.3 | 2,674 | 3.3 |
| Loddon Mallee | 3,897 | 5.9 | 3,484 | 5.7 | 3,757 | 5.2 | 3,606 | 4.7 | 3,730 | 4.7 |
| Hume | n/a | n/a | 3,116 | 5.1 | 3,196 | 4.4 | 3,281 | 4.1 | 3,256 | 4.1 |
| Gippsland | 3,582 | 5.4 | 2,683 | 4.4 | 2,980 | 4.1 | 3,069 | 3.9 | 3,104 | 3.9 |
| *Total rural* | *18,388* | *27.9* | *16,122* | *26.2* | *16,916* | *23.3* | *17,316* | *21.7* | *17,304* | *21.7* |
| Western Metropolitan | 12,767 | 19.3 | 8,643 | 14 |  n/a | n/a |  | n/a |  |  |
| Northern Metropolitan | n/a | n/a | 10,219 | 16.6 | 25,204 | 34.6 | 28,723 | 37.1 | 29,424 | 37.1 |
| Eastern Metropolitan | 19,197 | 29.1 | 11,334 | 18.4 | 11,403 | 15.6 | 11,232 | 14.4 | 11,454 | 14.4 |
| Southern Metropolitan | 15,146 | 22.9 | 13,989 | 22.7 | 17,813 | 24.4 | 18,900 | 24.6 | 19,534 | 24.6 |
| *Total metropolitan* | *47,110* | *71.3* | *44,185* | *71.8* | *54,420* | *74.6* | *58,855* | *76.2* | *60,681* | *76.1* |
| *Other (non-Victorian)* | *506* | *0.8* | *1,262* | *2* | *1,564* | *2.1* | *1,581* | *2.1* | *1,428* | *1.8* |
| Total confinements | 66,003 | 100 | 61,569 | 100 | 72,900 | 100 | 77,752 | 100 | 79,319 | 100 |

## Table 4.7: Trends in marital status, adjusted confinements 1990 to 2016 (%)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|   | 1990 | 2000 | 2010 | 2015 | 2016 |
| Married | 83.3 | 75.3 | 69.7 | 69.6 | 69.7 |
| De facto | 6.2 | 11.8 | 15.8 | 17.9 | 18.0 |
| Single | 9.2 | 11.7 | 11.0 | 10.9 | 10.7 |
| Separated/widowed/divorced | 1.2 | 1.1 | 0.7 | 0.6 | 0.7 |
| Not stated | 0.1 |  | 2.8 | 0.9 | 0.9 |
| Total | **100** | **100** | **100** | **100** | **100** |

## Table 4.8: Maternal place of birtha, adjusted confinements 2016

|  |  |
| --- | --- |
| Place of birth | 2016 |
| n | % |
| Australia | 48,819 | 61.5 |
| Southern And Central Asia | 8,676 | 10.9 |
| South-East Asia | 5,104 | 6.4 |
| North-East Asia | 4,539 | 5.7 |
| North Africa And The Middle East | 2,823 | 3.6 |
| North-West Europe | 2,326 | 2.9 |
| Oceania And Antarctica (Excl Australia) | 2,213 | 2.8 |
| Sub-Saharan Africa | 1,795 | 2.3 |
| Southern And Eastern Europe | 1,446 | 1.8 |
| Americas | 1,070 | 1.3 |
| Unknown | 508 | 0.6 |
| Total | 79,319 | 100 |

a  Standard Australian Classification of Countries (SACC) 2011,

 [http://www.abs.gov.au/ausstats/abs@.nsf/mf/1269.0](http://www.abs.gov.au/ausstats/abs%40.nsf/mf/1269.0)

 Note: Adjusted confinements - see Table 4.1

## Table 4.9: Ten most common countries of birth, for women born in non-English speaking countries, adjusted confinements in 1990, 2000, 2010, 2015 and 2016

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1990 | 2000 | 2010 | 2015 | 2016 |
| Country of birth  | Number of confinements | Country of birth  | Number of confinements | Country of birth  | Number of confinements | Country of birth  | Number of confinements | Country of birth  | Number of confinements |
| Vietnam | 1,068 | Vietnam | 1,905 | India | 3,508 | India | 4,888 | India | 5,510 |
| Former Yugoslavia | 971 | China | 883 | China  | 1,573 | China | 2,645 | China | 3,426 |
| Lebanon | 721 | Former Yugoslavia | 579 | Vietnam | 1,452 | Viet Nam | 1,599 | Viet Nam | 1,532 |
| Italy | 712 | Philippines | 567 | Sri Lanka | 776 | Sri Lanka | 1,028 | Sri Lanka | 1,039 |
| Philippines | 609 | Lebanon | 548 | Phillipines | 727 | Philippines | 918 | Philippines | 1,028 |
| Turkey | 584 | India | 519 | Malaysia | 522 | Pakistan | 704 | Pakistan | 787 |
| Malaysia | 502 | Sri Lanka | 457 | Sudan | 493 | Malaysia | 696 | Malaysia | 769 |
| Greece | 489 | Other Africa | 411 | Iraq | 441 | Sudan | 608 | Afghanistan | 703 |
| India | 385 | Turkey | 403 | Indonesia | 427 | Afghanistan | 594 | Sudan | 584 |
| Sri Lanka | 346 | Malaysia | 322 | Lebanon | 417 | Iraq | 538 | Iraq | 552 |

## Table 4.10: Maternal BMI, adjusted confinements 2016

|  |  |
| --- | --- |
| BMI | 2016 |
| n | % |
| < 18.5 | 2,548 | *3.2* |
| 18.5 to < 25 | 39,795 | *50.2* |
| 25 to < 30 | 20,410 | *25.7* |
| 30 to < 35 | 9,071 | *11.4* |
| 35 to < 40 | 3,777 | *4.8* |
| 40 to <50 | 2,034 | *2.6* |
| 50 to <60 | 193 | *0.2* |
| ≥60 | 42 | *0.1* |
| Unknown | 1,449 | *1.8* |
| **Total** | **79,319** | **100** |

Note: Adjusted confinements - see Table 4.1

## Table 4.11: Proportion of women reporting any smoking during first 20 weeks of pregnancy, adjusted confinements, Victoria 2016

|  |  |
| --- | --- |
| Reported smoking | 2016 |
| n | % |
| No smoking < 20 weeks of pregnancy | 71,418 | *90.0* |
| Quit smoking < 20 weeks of pregnancy | 1,491 | *1.9* |
| Continued smoking until at least 20 weeks of pregnancy | 5,364 | *6.8* |
| Not stated | 1,046 | *1.3* |
| **Total** | 79,319 | *100* |

Note: Adjusted confinements - see Table 4.1

## Table 4.12: IRSD quintile and maternal age, adjusted confinements 2016 (%)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Maternal age group | 1 Most deprived | 2 | 3 | 4 | 5 Least deprived | Total |
| % | % | % | % | % | % |
| < 20 years | 44.7 | 25.2 | 13.6 | 10.3 | 6.2 | **100** |
| 20–24 years | 36.8 | 25.1 | 17.4 | 12.7 | 8.0 | **100** |
| 25–29 years | 24.0 | 22.3 | 20.9 | 18.2 | 14.6 | **100** |
| 30–34 years | 16.0 | 19.2 | 20.7 | 21.5 | 22.5 | **100** |
| 35–39 years | 13.8 | 17.0 | 19.2 | 23.1 | 26.9 | **100** |
| 40 + years | 15.8 | 16.7 | 18.7 | 21.8 | 27.1 | **100** |

This table excludes missing data (N=111 adjusted confinements).

## Table 4.13: IRSD quintile and place of residence, adjusted confinements 2016 (%)

|  |  |
| --- | --- |
|   | 2016 |
| Place of residence | 1 Most deprived | 2 | 3 | 4 | 5 Least deprived | Total |
|   | % | % | % | % | % | % |
| Metropolitan | 17.9 | 18.2 | 19.4 | 21.7 | 22.8 | 100 |
| Rural | 26.7 | 26.1 | 21.9 | 14.8 | 10.5 | 100 |

This table excludes missing data (N=111 adjusted confinements).

## Table 4.14: Admission status, adjusted confinements 2016

|  |  |
| --- | --- |
| Admission status |  Actual 2016 |
|  n | % |
| Public in public hospital |  58,313  | *73.5* |
| Public hospital home birth program |  77  | *0.1* |
| ***Subtotal Public*** |  ***58,390***  | ***73.6*** |
| Private in public hospital |  1,793  | *2.3* |
| Private in private hospital |  18,911  | *23.8* |
| Private – planned home birth |  204  | *0.3* |
| ***Subtotal Private*** |  ***20,908***  | ***26.4*** |
| Unknown |  21  | *0.0* |
| **Total** |  **79,319**  | ***100*** |

Note: Adjusted confinements - see Table 4.1

## Table 4.15: Age of women planning public or private home confinements, 2016

|  |  |
| --- | --- |
| Maternal age group | 2016 |
|  | Public | Private |
|   | n | % | n | % |
| Younger than 20 years | 0 | *0.0* | 2 | *0.7* |
| 20–24 years | 7 | *7.0* | 9 | *3.3* |
| 25–29 years | 26 | *26.0* | 72 | *26.8* |
| 30–34 years | 40 | *40.0* | 97 | *36.1* |
| 35–39 years | 24 | *24.0* | 71 | *26.4* |
| 40 + years | 3 | *3.0* | 12 | *4.5* |
| Unknown | 0 | *0.0* | 6 | *2.2* |
| **Total** | **100** | ***100*** | **269** | ***100*** |

## Table 4.16: Actual place of birth for planned home confinements, 2016

|  |  |
| --- | --- |
|  | 2016 |
| Place of birth | Home | Hospital | Unplanned out-of-hospital (e.g. in transit) | Total |
|   | n | % | n | % | n | % | n | % |
| Planned public homebirth | 77 | *77.0* | 22 | *22.0* | 1 | *1.0* | **100** | ***100*** |
| Planned private homebirth | 204 | *75.8* | 65 | *24.2* | 0 | *0.0* | **269** | ***100*** |

## Table 4.17: Time of change in plan for women who planned public or private home confinements and gave birth in hospital, 2016

|  |  |
| --- | --- |
| Time of change | 2016 |
|  | Public | Private |
|  | n | % | n | % |
| Before onset of labour | 12 | *52.2* | 17 | *26.2* |
| During labour | 11 | *47.8* | 48 | *73.8* |
| **Total** | **23** | ***100*** | **65** | ***100*** |

## Table 4.18: Trends in admission status, adjusted confinements 2000 to 2016 (%)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Admission status | 2000 | 2005 | 2010 | 2015 | 2016 |
| Public | 69.6 | 63.5 | 68.7 | 73.4 | 73.6 |
| Private | 30.4 | 36.5 | 31.3 | 26.6 | 26.4 |
| ***Total*** | ***100*** | ***100*** | ***100*** | ***100*** | ***100*** |

## Figure 4.2: Admission for the birth as a public patient by maternal age group, adjusted confinements 2016 (%)

|  |  |  |
| --- | --- | --- |
|   | Public | Private |
| Younger than 20 years | 97.6% | 2.3% |
| 20 - 24 years | 94.6% | 5.3% |
| 25 - 29 years | 83.4% | 16.6% |
| 30 - 34 years | 68.9% | 31.1% |
| 35 - 39 years | 62.0% | 38.0% |
| 40 - 44 years | 59.8% | 40.2% |
| 45 years +  | 52.8% | 47.2% |

## Table 4.19: Actual place of birth, adjusted confinements 2016

|  |  |
| --- | --- |
| Place of birth | 2016 |
|  | n | % |
| Hospital - public | 59,813 | *75.4* |
| Hospital- private | 18,882 | *23.8* |
| ***Total Hospital*** | **78,695** | ***99.2*** |
| Planned home births-private midwife | 204 | *0.3* |
| Planned home births - public hospital program | 77 | *0.1* |
| ***Total planned home births*** | **281** | ***0.4*** |
| Unplanned out-of-hospital births | 341 | *0.4* |
| Inadequately described | 2 | *0.0* |
| **Total** | **79,319** | ***100*** |

See also Tables 4.1 and Table 4.14

Note that these numbers differ to Table 4.14 which relates to admission status rather than actual place of birth, as unplanned out-of-hospital births sit within the admission status groups.

## Table 4.20: Trend in number of women achieving planned home confinements, 1990 to 2016

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 1990 | 2000 | 2010 | 2015 | 2016 |
| Public (n) | N/A | N/A | 45 | 74 | 77 |
| % of all confinements | *N/A* | *N/A* | *0.1* | *0.1* | *0.1* |
| Private (n) | 181 | 114 | 262 | 250 | 204 |
| % of all confinements | *0.3* | *0.2* | *0.4* | *0.3* | *0.3* |

N/A - not applicable

## Table 4.21: Trends in parity, adjusted confinements, 1990 to 2016

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Parity | 1990 | 2000 | 2010 | 2012 | 2013 | 2014 | 2015 | 2016 |
|  | % | % | % | % | % |  |  |  |
| None | 40.8 | 41.7 | 43.7 | 44.5 | 45 | 45.1 | 43.8 | 44.0 |
| One | 33.3 | 34.6 | 34.5 | 34.8 | 34.5 | 34.7 | 36.0 | 36.1 |
| Two | 17.0 | 15.7 | 14.2 | 13.7 | 13.3 | 13.1 | 13.2 | 13.0 |
| Three | 5.9 | 5.2 | 4.7 | 4.3 | 4.4 | 4.2 | 4.2 | 4.2 |
| Four | 1.9 | 1.7 | 1.6 | 1.5 | 1.4 | 1.6 | 1.5 | 1.5 |
| Five or more | 1.1 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 |
| **Total** | **100** | **100** | **100** | **100** | **100** | **100** | **100** | **100** |

## Table 4.22: Number of previous caesarean sections, of women who had one or more prior births, 2000 to 2016

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Number of previous caesarean sections | 2000 | 2005 | 2010 | 2015 | 2016 |
|  | n | % | n | % | n | % | n | % | n | % |
| None | 28,806 | *80.3* | 27,653 | *74.4* | 29,419 | *72* | 29,959 | *69.7* | 30,086 | *67.8* |
| One | 5,572 | *15.5* | 7,488 | *20.2* | 8,996 | *22* | 10,165 | *23.6* | 10,729 | *24.2* |
| Two | 1,241 | *3.5* | 1,678 | *4.5* | 2,104 | *5.1* | 2,341 | *5.4* | 2,269 | *5.1* |
| Three | 231 | *0.6* | 276 | *0.7* | 414 | *1* | 439 | *1.0* | 491 | *1.1* |
| Four | 32 | *0.1* | 47 | *0.1* | 60 | *0.1* | 83 | *0.2* | 80 | *0.2* |
| Five or more | 9 | *0* | 10 | *0* | 8 | *0* | 14 | *0.0* | 21 | *0.0* |
| Not reported |  |  |  |  |  |  |  |  | 704 | *1.6* |
| **Total** | **35,891** | ***100*** | **37,152** | ***100*** | **41,001** | ***100*** | **43,001** | ***100*** | **44,380** | ***100*** |

## Table 4.23: Trends in gestation, adjusted confinements 1990 to 2016 (%)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Gestation | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2016 |
|  | n = 66,004 | n = 62,734 | n = 61,562 | n = 65,115 | n = 72,864 | n=77,752 | n=79,319  |
| 20–27 weeks | 0.6 | 0.4 | 0.7 | 0.6 | 0.6 | 0.5 | 0.6 |
| 28–31 weeks | 0.6 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.6 |
| 32–36 weeks | 5 | 5.1 | 5.5 | 5.5 | 5.8 | 6.4 | 6.2 |
| 37–41 weeks | 88.1 | 90.1 | 91.8 | 91.9 | 91.6 | 92.0 | 92.2 |
| 42 + weeks | 4.5 | 3.0 | 1.3 | 1.3 | 1.2 | 0.5 | 0.4 |
| Not reported | 1.1 | 0.7 | 0 | 0 | 0.1 | 0.0 | 0 |
| **Total** | **100** | **100** | **100** | **100** | **100** | **100** | **100** |

## Table 4.24: Onset of labour, adjusted confinements 2016

|  |  |
| --- | --- |
| Onset of labour |  2016 |
| n | % |
| Spontaneous (not augmented) | 25,917 | *32.7* |
| Spontaneous and augmented | 12,017 | *15.2* |
| Induced | 24,398 | *30.8* |
| ***Subtotal - women who experienced labour*** | ***62,332*** | ***78.6*** |
| **No labour** | **16,985** | ***21.4*** |
| Inadequately described/not reported | 2 | *0.0* |
| **Total** | **79,319** | ***100*** |

Note: Adjusted confinements - see Table 4.1

## Figure 4.3: Trends in onset of labour, adjusted confinements 1990 to 2016 (%)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   | 1990 | 1995 | 2000 | ‘05 | ‘10 | ‘12 | ‘13 | ‘14 | ‘15 | ‘16 |
| No labour | 9.2 | 11.0 | 13.2 | 17.6 | 18.9 | 19.6 | 20.2 | 20.7 | 21.1 | 21.4 |
| Induced | 19.2 | 22.7 | 27.3 | 25.6 | 24.1  | 24.9 | 26.1 | 27.5 | 28.8 | 30.8 |
| Spontaneous and augmented | 15.1 | 12.3 | 19.1 | 19.9 | 19.7 | 18.4 | 18.1 | 17.0 | 15.8 | 15.2 |
| Spontaneous  | 56.4 | 54.1 | 40.4 | 36.9 | 37.4 | 37.1 | 35.6 | 34.8 | 34.4 | 32.7 |

## Figure 4.4: Onset of labour by admission status, adjusted confinements 2016 (%)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Spontaneous (not augmented) | Spontaneous and augmented | Induced | No labour |
| Public | 35.4% | 15.0% | 31.4% | 18.2% |
| Private | 25.0% | 15.7% | 29.0% | 30.3% |

## Table 4.25: Fetal monitoring in labour (of women who experienced labour), 2016

|  |  |
| --- | --- |
| Type of monitoring |  2016 |
| n | % |
| None | 1,112 | *1.8* |
| Intermittent auscultation | 7,290 | *11.7* |
| Admission CTG/Intermittent CTG | 8,956 | *14.4* |
| Continuous external CTG | 32,824 | *52.7* |
| Internal CTG (scalp electrode) | 11,606 | *18.6* |
| Fetal blood sampling | 451 | *0.7* |
| Other/Not adequately described | 93 | *0.1* |
| **Total** | **62,332** | ***100.0*** |

Note: Fetal monitoring in labour is reported in a hierarchical manner e.g. a woman who had intermittent auscultation followed by continuous external CTG monitoring is reported as ‘continuous external CTG monitoring’.

## Table 4.26: Method of birth, adjusted confinements, 2016

|  |  |
| --- | --- |
| Method of birth |  2016 |
|  |  n | *%* |
| Unassisted vaginal |  40,057  | *50.5* |
| Total operative vaginal |  12,313  | *15.5* |
|  *- Vacuum* |  *5,609*  | *7.1* |
|  *- Forceps* |  *6,704*  | *8.5* |
| Total caesarean |  26,938  | *34.0* |
| *– planned* |  *13,796*  | *17.4* |
| *– unplanned* |  *13,142*  | *16.6* |
| Inadequately described/unknown |  11  | *0.0* |
| **Total** |  **79,319**  | ***100.0*** |

Notes:

Unassisted vaginal means without instruments.

Operative vaginal birth is the total of vacuum and forceps (5609 + 6704) births.

Adjusted confinements - see Table 4.1

## Figure 4.5: Trends in method of birth, adjusted confinements, 1985 to 2016 (%)

\*vaginal breech included in Unassisted vaginal or Forceps since 2009

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2016 |
| Caesarean | 15.3 | 16.7 | 19.1 | 23.4 | 30.4 | 31.6 | 33.4 | 34.0 |
| Forceps | 15.8 | 12.3 | 10.9 | 6.9 | 6 | 5.7 | 7.9 | 8.5 |
| Vacuum | 0.5 | 1.1 | 1.5 | 5.9 | 7.1 | 8.3 | 7.2 | 7.1 |
| Vaginal breech | 1.4 | 1.3 | 1 | 0.6 | 0.3 | n/a | n/a | n/a |
| Unassisted vaginal | 67 | 68.6 | 67.5 | 63.2 | 56.1 | 54.3 | 51.5 | 50.5 |

## Table 4.27: Method of birth by onset of labour, adjusted confinements 2016

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Method of birth | Unassisted vaginal | Vacuum | Forceps | Caesarean | Unknown | Total |
|  | n | *%* | n | *%* | n | *%* | n | *%* | n | *%* | n | *%* |
| Spontaneous (not augmented) | 19,636 | *75.8* | 1,610 | *6.2* | 1,545 | *6.0* | 3,120 | *12.0* | 6 | *0.0* | 25,917 | *100* |
| Augmented | 6,340 | *52.8* | 1,578 | *13.1* | 2,105 | *17.5* | 1,992 | *16.6* | 2 | *0.0* | 12,017 | *100* |
| Induced | 14,080 | *57.7* | 2,421 | *9.9* | 3,054 | *12.5* | 4,842 | *19.8* | 1 | *0.0* | 24,398 | *100* |
| No laboura | 0 | *0.0* | 0 | *0.0* | 0 | *0.0* | 16,983 | *100.0* | 2 | *0.0* | 16,985 | *100* |
| Inadequately reported | 1 | *50.0* | 0 | *0.0* | 0 | *0.0* | 1 | *50.0* | 0 | *0.0* | 2 | *100* |
| **Total** | **40,057** | ***50.5*** | **5,609** | ***7.1*** | **6,704** | ***8.5*** | **26,938** | ***34.0*** | **11** | ***0.0*** | **79,319** | ***100*** |

a No labour includes those experiencing failed induction.

 Note: Adjusted confinements - see Table 4.1

## Table 4.28: Method of birth by admission status, adjusted confinements 2016

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Admission status |  | Unassisted vaginal | Vacuum | Forceps | Caesarean | Unknown | Total |
| Public patient | n | 32,089 | 3,416 | 4,992 | 17,888 | 5 | 58,390 |
|  | *%* | *55.0* | *5.9* | *8.5* | *30.6* | *0.0* | *100* |
| Private patient | n | 7,958 | 2,192 | 1711 | 9,042 | 5 | 20,908 |
|  | *%* | *38.1* | *10.5* | *8.2* | *43.2* | *0.0* | *100* |
| Not stated | n | 10 | 1 | 1 | 8 | 1 | 21 |
|  | *%* | *47.6* | *4.8* | *4.8* | *38.1* | *4.8* | *100* |
| Total | n | 40,057 | 5,609 | 6,704 | 26,938 | 11 | 79,319 |
|  | *%* | *50.5* | *7.1* | *8.5* | *34.0* | *0.0* | *100* |

## Figure 4.6: Method of birth by admission status, adjusted confinements 2016

## Table 4.29: Method of birth by presentation, adjusted confinements 2016

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Unassisted | Vacuum | Forceps | Caesarean | Unknown | Total |
| Vertex | n | 39,228 | 5,560 | 6,637 | 23,752 | 4 | **75,181** |
|  | *%* | *52.2* | *7.4* | *8.8* | *31.6* | *0.0* | ***100*** |
| Breech | n | 237 | 2 | 17 | 2810 | 0 | **3,066** |
|  | *%* | *7.7* | *0.1* | *0.6* | *91.7* | *0.0* | ***100*** |
| Other | n | 560 | 46 | 49 | 308 | 1 | **964** |
|  | *%* | *58.1* | *4.8* | *5.1* | *32.0* | *0.1* | ***100*** |
| Not reported | n | 32 | 1 | 1 | 68 | 6 | **108** |
|  | *%* | *29.6* | *0.9* | *0.9* | *63.0* | *5.6* | ***100*** |
| **Total** |  **n** | **40,057** | **5,609** | **6,704** | **26,938** | **11** | **79,319** |
|  | *%* | *50.5* | *7.1* | *8.5* | *34.0* | *0.0* | ***100*** |

Note: ‘Other’ includes all presentations other than vertex or breech, for example face, brow, compound, shoulder, etc.

Unassisted vaginal means without instruments.

Note: Adjusted confinements - see Table 4.1

## Table 4.30: Epidural analgesia for women who experienced labour, adjusted confinements 2016

|  |  |
| --- | --- |
|  |  2016 |
|  | n | % |
| Used epidural analgesia (all parities) | 21,090 | *33.8* |
|  *- First births* | *14,242* | *47.6* |
|  *- Subsequent births* | *6,848* | *21.1* |
| **Total women who experienced labour**  | **62,332** | ***100*** |

## Table 4.31: Type of anaesthesia for operative vaginal birth, adjusted confinements 2016

|  |  |
| --- | --- |
| Type of anaesthesia |  2016 |
|  | n | *%* |
| None | 1,160 | *9.4* |
| Local anaesthesia/Pudendal block | 3,116 | *25.3* |
| Regional only | 7,936 | *64.5* |
| GA and Epidural | 1 | *0.0* |
| General anaesthesia only | 9 | *0.1* |
| Other  | 91 | *0.7* |
| **Total** | **12,313** | ***100.0*** |

Notes:

Operative vaginal birth is the total of vacuum and forceps (5609 + 6704) births. See Table 4.26

GA - general anaesthesia

## Table 4.32: Type of anaesthesia for caesarean birth, adjusted confinements 2016

|  |  |
| --- | --- |
| Type of anaesthesia |  2016 |
|  | n | % |
| Regional only | 25,472 | *94.6* |
| General anaesthesia only | 1,158 | *4.3* |
| General anaesthesia and regional | 292 | *1.1* |
| Not known/Inadequately reported | 16 | *0.1* |
| **Total** | **26,938** | ***100.0*** |

Note: The total number of women who had caesarean birth was 26938. See table 4.26

## Table 5433: 3rd and 4th degree lacerations following vaginal birth by admission type and parity, adjusted confinements 2016

|  |  |  |
| --- | --- | --- |
| 3rd and 4th degree lacerations |  2016 | 2016 |
| Public admission | Primiparous women | n | 1,045 |
|  |  | *%* | *6.0%* |
|  | Multiparous women | n | 390 |
|  |  | *%* | *1.7%* |
| Private admission | Primiparous women | n | 125 |
|  |  | *%* | *2.3%* |
|  | Multiparous women | n | 36 |
|  |  | *%* | *0.6%* |

This table excludes 11 cases with missing data.

## Table 4.34: Episiotomy for vaginal birth by admission type and parity, adjusted confinements 2016

|  |  |  |  |
| --- | --- | --- | --- |
| Episiotomy |   |   2016 | 2016 |
| Public admission | Primiparous women | n | 8,333 |
|   |  | *%* | *47.9* |
|   | Multiparous women | n | 2,764 |
|   |  | *%* | *12.0* |
| Private admission | Primiparous women | n | 2,950 |
|   |  | *%* | *53.2* |
|   | Multiparous women | n | 1,043 |
|   |  | *%* | *16.5* |

This table excludes 11 cases with missing data.

## Table 4.35: Estimated blood loss and blood transfusion by parity, adjusted confinements 2016

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parity | < 500 mL | 500–1,499 mL | 1,500 mL or more | Not reported | Total |
|  | n | % | n | % | n | % | n | % | n | % |
| Primiparae | 24,687 | *70.7* | 9,123 | *26.1* | 816 | *2.3* | 313 | *0.9* | 34,939 | *100* |
| *transfused\** | *103* | *0.4* | *302* | *3.3* | *338* | *41.4* | *5* | *1.6* | *748* |  |
| Multiparae | 34,656 | *78.1* | 8,586 | *19.3* | 758 | *1.7* | 378 | *0.9* | 44,378 | *100* |
| *transfused\** | *98* | *0.3* | *189* | *2.2* | *311* | *41.0* | *3* | *0.8* | *601* |  |
| All women | 59,344 | *74.8* | 17,710 | *22.3* | 1,574 | *2.0* | 691 | *0.9* | 79,319 | *100* |
| *transfused\** | *201* | *0.3* | *491* | *2.8* | *649* | *41.2* | *8* | *0.0* | *1,349* |  |

\* % transfused within each blood loss category.

Parity unknown for 2 women - included in 'all women' total.

Note: Adjusted confinements - see Table 4.1

## Table 4.36: Women given prophylactic oxytocics in the third stage of labour, adjusted confinements, 2016

|  |  |
| --- | --- |
| Prophylactic oxytocic  |  2016 |
|   | n | *%* |
| Prophylactic oxytocic given | 78,389 | *98.8* |
| Prophylactic oxytocic not given | 865 | *1.1* |
| Not reported | 65 | *0.1* |
| **Total** | **79,319** | ***100.0*** |

Note: Adjusted confinements - see Table 4.1

## Table 4.37 : Initiation of breastfeeding (women with a live birth), 2016

|  |  |
| --- | --- |
| Initiation of breastfeeding |  2016 |
|  | n | % |
| Attempted to breastfeed or express breastmilk | 74,892 | *94.8* |
| Did not attempt to breastfeed or express | 3,874 | *4.9* |
| Not fed at birth hospital | 2 | *0* |
| Unknown | 230 | *0.3* |
| **Total** | **78,998** | **100.0** |

## Table 4.38: Term, live-born babies whose mothers initiated breastfeeding given formula in hospital, 2016

|  |  |  |  |
| --- | --- | --- | --- |
| Infant formula | Overall | Public hospitals | Private hospitals |
|  | n | *%* | n | *%* | n | *%* |
| Infant formula given | 19,674 | *27.9* | 13,167 | *25.1* | 6,507 | *38.4* |
| Infant formula not given | 49,944 | *70.9* | 39,285 | *74.8* | 10,456 | *61.6* |
| Unknown | 789 | *1.1* | 56 | *0.1* | 0 | *0.0* |
| **Total** | **70,407** | ***100.0*** | **52,508** | ***100.0*** | **16,963** | ***100.0*** |

Babies not fed in the birth hospital (n=56), and those born at home under private midwife care (n=203) are excluded.

## Table 4.39: Term, live-born babies whose mothers initiated breastfeeding having their last feed before discharge entirely and directly from the breast, 2016

|  |  |  |  |
| --- | --- | --- | --- |
| Breastfeeding status | Overall | Public hospitals | Private hospitals |
|  | n | *%* | n | % | n | % |
| Exclusively breast fed | 53,944 | *76.6* | 41,481 | *78.0* | 12,257 | *72.0* |
| Not exclusively breast fed | 16,188 | *23.0* | 11,471 | *21.6* | 4,715 | *27.7* |
| Unknown | 275 | *0.4* | 200 | *0.4* | 52 | *0.3* |
| **Total** | **70,407** | ***100.0*** | **53,152** | ***100.0*** | **17,024** | ***100.0*** |

Babies born at home under private midwife care and those whose hospital type was not reported are excluded (n=231).

## Table 4.40: Gestation in completed weeks for adjusted total births, 2016

|  |  |  |
| --- | --- | --- |
| Gestation | n | % |
| 20 | 54 | 0.1 |
| 21 | 60 | 0.1 |
| 22 | 48 | 0.1 |
| 23 | 49 | 0.1 |
| 24 | 53 | 0.1 |
| 25 | 71 | 0.1 |
| 26 | 90 | 0.1 |
| 27 | 97 | 0.1 |
| 28 | 94 | 0.1 |
| 29 | 93 | 0.1 |
| 30 | 177 | 0.2 |
| 31 | 201 | 0.2 |
| 32 | 358 | 0.4 |
| 33 | 478 | 0.6 |
| 34 | 818 | 1.0 |
| 35 | 1,182 | 1.5 |
| 36 | 2,745 | 3.4 |
| ***Subtotal preterm*** | ***6,668*** | ***8.3*** |
| 37 | 7,216 | 9.0 |
| 38 | 17,839 | 22.1 |
| 39 | 22,025 | 27.3 |
| 40 | 18,865 | 23.4 |
| 41 | 7,648 | 9.5 |
| ***Subtotal term*** | ***73,593*** | ***91.4*** |
| 42 | 266 | 0.3 |
| ≥43  | 22 | 0.0 |
| ***Subtotal post term*** | ***288*** | ***0.4*** |
| **Total** | **80,549** | **100** |

Note: Adjusted total births total is (T) [T=E + I] in Appendix 3

## Table 4.41 : Neonatal capability level\* of maternity service for birth at various gestations (completed weeks) 2016

|  |  |  |
| --- | --- | --- |
| Gestation | Neonatal capability level of maternity service |  |
|   |   | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Not stated | Total |
| 20–27 | n | 0 | 8 | 40 | 50 | 58 | 295 | 0 | 451 |
|   | *%* | *0.0* | *1.8* | *8.9* | *11.1* | *12.9* | *65.4* | *0.0* | *100.0* |
| 28–31 | n | 0 | 1 | 13 | 35 | 26 | 400 | 3 | 478 |
|   | *%* | *0.0* | *0.2* | *2.7* | *7.3* | *5.4* | *83.7* | *0.6* | *100.0* |
| 32–36 | n | 0 | 78 | 533 | 1,199 | 817 | 1,519 | 1 | 4,147 |
|   | *%* | *0.0* | *1.9* | *12.9* | *28.9* | *19.7* | *36.6* | *0.0* | *100.0* |
| 37–41 | n | 2 | 3,092 | 9,422 | 16,929 | 10,576 | 15,716 | 4 | 5,5741 |
|   | *%* | *0.0* | *5.5* | *16.9* | *30.4* | *19.0* | *28.2* | *0.0* | *100.0* |
| 42 + | n | 0 | 10 | 39 | 32 | 30 | 106 | 1 | 218 |
|   | *%* | *0.0* | *4.6* | *17.9* | *14.7* | *13.8* | *48.6* | *0.5* | *100.0* |
| **Total** | **n** | **2** | **3,189** | **10,047** | **18,245** | **11,507** | **18,036** | **9** | **61,035** |
|  | **%** | ***0.0*** | ***5.2*** | ***16.5*** | ***29.9*** | ***18.9*** | ***29.6*** | ***0.0*** | ***100.0*** |

\* Neonatal capability level is defined only for public maternity services.

## Table 4.42 : Birth weight categories, adjusted total births 2016

|  |  |
| --- | --- |
| Birthweight (grams) |  2016 |
|  | n | % |
| < 500 g | 185 | *0.2* |
| 500–999 g | 346 | *0.4* |
| 1,000–1,499 g | 485 | *0.6* |
| 1,500–1,999 g | 1,061 | *1.3* |
| 2,000–2,499 g | 3,431 | *4.3* |
| 2,500–2,999 g | 13,035 | *16.2* |
| 3,000–3,499 g | 30,126 | *37.4* |
| 3,500–3,999 g | 23,732 | *29.5* |
| 4,000–4,499 g | 7,048 | *8.7* |
| 4,500 + | 1,067 | *1.3* |
| Not known | 33 | *0.0* |
| **Total** | **80,549** | ***100*** |

Note: Adjusted total births total is (T) [T=E + I] in Appendix 3

## Figure 4.8 Trends in low birth weight (<1,500g, <2,500 g) and birth weight ≥ 4500 g, adjusted total births, 1985-2016

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1985 | 1990 | 1995 | 2000 | 2005 | 2010 | 2015 | 2016 |
| <1,500 g | 1 | 1.2 | 1.4 | 1.4 | 1.3 | 1.4 | 1.2 | 1.3 |
| <2,500 g | 5.5 | 6 | 6.5 | 6.6 | 6.7 | 6.6 | 6.7 | 6.8 |
| 4,500 g + | 1.6 | 1.7 | 1.8 | 1.9 | 1.8 | 1.9 | 1.5 | 1.3 |

## Table 4.43 Apgar score at five minutes, 2016 (adjusted live births)

|  |  |
| --- | --- |
| Apgar |  2016 |
|  |  n | *%* |
| < 4 |  272 | *0.3* |
| 4 to 6 |  1,330 | *1.7* |
| 7 to 10  |  78,471 | *97.8* |
| Unknown |  127 | *0.2* |
| Total |  80,200 | *100.0* |

Note: Adjusted live births number is (E) in Appendix 3

## Table 4.44 : Method of resuscitation used, 2016 (adjusted live births only)

|  |  |
| --- | --- |
| Type of resuscitation |  2016 |
|  | n | *%* |
| None | 61,607 | *76.8* |
| Suction and or oxygen | 2,745 | *3.4* |
| Intermittent positive pressure respiration bag and mask with air | 1,166 | *1.5* |
| Intermittent positive pressure respiration bag and mask with oxygen | 611 | *0.8* |
| Continuous positive airway pressure with air | 3,518 | *4.4* |
| Continuous positive airway pressure with oxygen | 3,372 | *4.2* |
| Endotracheal intubation and IPPR with air | 91 | *0.1* |
| Endotracheal intubation and IPPR with oxygen | 342 | *0.4* |
| External cardiac massage and ventilation | 208 | *0.3* |
| Other | 6,085 | *7.6* |
| Not reported | 455 | *0.6* |
| **Total** | **80200** | ***100.0*** |

Note: Adjusted live births number is (E) in Appendix 3

## Table 4.45 : Multiple births, adjusted total births, 2016

|  |  |  |
| --- | --- | --- |
|  | n | % of all adjusted total births |
| Twins | 2,221 | *2.8* |
| Triplets | 77 | *0.1* |
| Quadruplets | 0 | *0.0* |
| Quintuplets | 0 | *0.0* |
| Not stated | 57 | *0.1* |
| **Total** | **2,298** | ***2.9*** |

## Table 4.46: Trends in multiple births, adjusted total births, 1990 to 2016

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Year | Twins | % of all adjusted total births | Triplets  | % of all adjusted total births | Quads or higher order | % of all adjusted total births |
| 1990 | 1,649 | *2.50* | 69 | *0.10* | 4 | *0.00* |
| 1995 | 1,850 | *2.90* | 87 | *0.10* | 0 | *0.00* |
| 2000 | 1,903 | *3.00* | 63 | *0.10* | 0 | *0.00* |
| 2005 | 2,388 | *3.60* | 48 | *0.10* | 0 | *0.00* |
| 2010 | 2,339 | *3.20* | 56 | *0.10* | 6 | *0.00* |
| 2015 | 2,226 | *2.82* | 63 | *0.08* | 0 | *0.00* |
| 2016 | 2,221 | *2.76* | 77 | *0.10* | 0 | *0.00* |

Note that the figures in these tables differ from tables in the Perinatal Deaths section (Tables 6.11 and 6.12) as the data in these tables refer to births adjusted for all TOP, whereas tables showing births in the perinatal section are adjusted only for TOP for MPI.

## Table 4.47: Multiple birth by maternal age group, adjusted confinements 2016 (% of mothers in each age group)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Maternal age  | Sets of twins | % of all adjusted confinements in this age group | Sets of triplets | % of all adjusted confinements in this age group |
| Younger than 20 years | 7 | *0.6* | 0 | *0.0* |
| 20–24 years | 75 | *1.0* | 0 | *0.0* |
| 25–29 years | 235 | *1.2* | 4 | *0.0* |
| 30–34 years | 429 | *1.4* | 12 | *0.0* |
| 35–39 years | 266 | *1.6* | 7 | *0.0* |
| 40–44 years | 77 | *2.2* | 2 | *0.1* |
| 45 years or older | 22 | *8.1* | 1 | *0.4* |
| **Total** | **1,111** |  | **26** |  |

## Table 4.48: Gestation by plurality, adjusted confinements 2016

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Gestation at birth (completed weeks) | Singletons | *%*  | Sets of twins | *%*  | Sets of triplets | *%*  | Total |
| 20–27 | 391 | *0.5* | 62 | *5.6* | 2 | *7.7* | **455** | ***0.6*** |
| 28–31 | 389 | *0.5* | 79 | *7.1* | 6 | *23.1* | **474** | ***0.6*** |
| 32–36 | 4,332 | *5.5* | 594 | *53.5* | 17 | *65.4* | **4,943** | ***6.2*** |
| 37–41 | 72,778 | *93.1* | 376 | *33.8* | 1 | *3.8* | **73,155** | ***92.2*** |
| 42 + | 292 | *0.4* | 0 | *0.0* | 0 | *0.0* | **292** | ***0.4*** |
| **Total** | **78,182** | ***100*** | **1111** | ***100*** | **26** | ***100*** | **79,319** | ***100*** |

Note: Adjusted confinements - see Table 4.1

## Table 4.49: Method of birth for singleton and multiple births, adjusted confinements 2016\*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Method of birth | Singleton pregnancy | Twin pregnancy | Triplet pregnancy | Total |
|  | n | *%* | n | *%* | n | *%* | n | *%* |
| Unassisted vaginal birth | 39,844 | *51.0* | 212 | *19.1* | 1 | *3.8* | 40,057 | *50.5* |
| Vacuum | 5,574 | *7.1* | 35 | *3.2* | 0 | *0.0* | 5,609 | *7.1* |
| Forceps | 6,635 | *8.5* | 69 | *6.2* | 0 | *0.0* | 6,704 | *8.5* |
| Total caesarean | 26,118 | *33.4* | 795 | *71.6* | 25 | *96.2* | 26,938 | *34.0* |
| *– planned* | 13,334 | *17.1* | 448 | *40.3* | 14 | *53.8* | 13,796 | *17.4* |
| *– unplanned* | 12,784 | *16.4* | 347 | *31.2* | 11 | *42.3* | 13,142 | *16.6* |
| Not reported/inadequately described | 11 | *0.0* | 0 | *0.0* | 0 | *0.0* | 11 | *0.0* |
| **Total** | **78,182** | ***100.0*** | **1,111** | ***100.0*** | **26** | ***100.0*** | **79,319** | ***100.0*** |

\* Method of birth for first born in a multiple birth.

 Note: Adjusted confinements - see Table 4.1

## Table 4.50: Trends in adjusted total births and adjusted confinements to Aboriginal women, 1985 to 2015

|  |  |  |
| --- | --- | --- |
| Year | Births | Adjusted confinements |
|  | n | *% of all adjusted total births* | n | *% of all adjusted confinements* |
| 1985 | 323 | *0.5* | 321 | *0.5* |
| 1990 | 436 | *0.7* | 429 | *0.6* |
| 1995 | 423 | *0.7* | 417 | *0.7* |
| 2000 | 380 | *0.6* | 376 | *0.6* |
| 2001 | 419 | *0.7* | 414 | *0.7* |
| 2002 | 421 | *0.7* | 416 | *0.7* |
| 2003 | 372 | *0.6* | 364 | *0.6* |
| 2004 | 435 | *0.7* | 431 | *0.7* |
| 2005 | 534 | *0.8* | 525 | *0.8* |
| 2006 | 568 | *0.8* | 561 | *0.8* |
| 2007 | 698 | *1.0* | 688 | *1.0* |
| 2008 | 727 | *1.0* | 720 | *1.0* |
| 2009 | 835 | *1.2* | 825 | *1.2* |
| 2010 | 874 | *1.2* | 868 | *1.2* |
| 2011 | 932 | *1.3* | 912 | *1.3* |
| 2012 | 965 | *1.2* | 955 | *1.2* |
| 2013 | 1,014 | *1.3* | 1,000 | *1.3* |
| 2014 | 1,037 | *1.3* | 1,020 | *1.3* |
| 2015 | 1,171 | *1.5* | 1,156 | *1.5* |
| 2016 | 1,117 | *1.4* | 1,107 | *1.4* |

Note that the figures in this table may differ from tables in the perinatal section as the data in this table refers to births adjusted for all TOP, whereas tables showing births in the perinatal section are adjusted only for TOP for MPI

## Figure 4.9 : Trends in percentage of all adjusted confinements to Aboriginal women 2000 – 2016

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 2000 | ‘01 | ‘02 | ‘03 | ‘04 | ‘05 | ‘06 | ‘07 | ‘08 | ‘09 | ‘10 | ‘11 | ‘12 |  ‘13 | ‘14 | ‘15 | ‘16 |
| % of all adjusted confinements | 0.6 | 0.7 | 0.7 | 0.6 |  0.7 | 0.8 |  0.8 | 1.0 |  1.0 | 1.2 |  1.2 | 1.3 |  1.2 |  1.3 |  1.3 |  1.5 |  1.4 |

## Table 4.51: Maternal age by Aboriginal status, adjusted confinements 2016

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Maternal age | Aboriginal | Non-Aboriginal | Unknown | Total |
|  | n | *%* | n | *%* | n | *%* | n | *%* |
| Younger than 20 years | 122 | *11.0* | 1,042 | *1.3* | 5 | *1.9* | 1,169 | *1.5* |
| 20–34 years | 844 | *76.2* | 57,013 | *73.1* | 183 | *70.4* | 58,040 | *73.2* |
| 35 years or older | 141 | *12.7* | 19,893 | *25.5* | 69 | *26.5* | 20,103 | *25.3* |
| Not stated | 0 | *0.0* | 4 | *0.0* | 3 | *1.2* | 7 | *0.0* |
| **Total** | **1,107** | ***100.0*** | **77,952** | ***100.0*** | **260** | ***100.0*** | **79,319** | ***100.0*** |

Note: Adjusted confinements - see Table 4.1

## Table 4.52: Birth weight by maternal Aboriginal status, adjusted total births 2016

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grams | Mother Aboriginal | Mother non-Aboriginal | Unknown | Total |
|  | n | *%* | n | *%* | n | *%* | n | *%* |
| < 1,500 g | 20 | *1.8* | 991 | *1.3* | 5 | *1.8* | 1,016 | *1.3* |
| 1,500–2,499 g | 89 | *8.0* | 4,384 | *5.5* | 19 | *7.0* | 4,492 | *5.6* |
| 2,500–4,499 g | 987 | *88.4* | 72,712 | *91.9* | 242 | *89.3* | 73,941 | *91.8* |
| 4,500 g+ | 21 | *1.9* | 1,043 | *1.3* | 3 | *1.1* | 1,067 | *1.3* |
| Unknown | 0 | *0.0* | 31 | *0.0* | 2 | *0.7* | 33 | *0.0* |
| **Total** | **1,117** | ***100.0*** | **79,161** | ***100.0*** | **271** | ***100.0*** | **80,549** | ***100.0*** |

Note: Adjusted total births total is (T) [T=E + I] in Appendix 3

## Table 4.53: Birth weight by maternal and baby Aboriginal status, adjusted total births 2016

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grams | Mother and/or baby Aboriginal | Neither mother nor baby Aboriginal | Unknown | Total |
|  | n | *%* | n | *%* | n | *%* | n | *%* |
| < 1,500 g | 26 | *1.5* | 809 | *1.0* | 181 | *20.7* | 1,016 | *1.3* |
| 1,500–2,499 g | 120 | *7.1* | 4,267 | *5.5* | 105 | *12.0* | 4,492 | *5.6* |
| 2,500–4,499 g | 1,529 | *89.8* | 71,836 | *92.1* | 576 | *66.0* | 73,941 | *91.8* |
| 4,500 g+ | 27 | *1.6* | 1,034 | *1.3* | 6 | *0.7* | 1,067 | *1.3* |
| Unknown | 0 | *0.0* | 28 | *0.0* | 5 | *0.6* | 33 | *0.0* |
| **Total** | **1,702** | ***100.0*** | **77,974** | ***100.0*** | **873** | ***100.0*** | **80,549** | ***100.0*** |

Note: Adjusted total births total is (T) [T=E + I] in Appendix 3

## Table 4.54: Proportion of women smoked at all during pregnancy by Aboriginal status, adjusted confinements, Victoria 2016

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Reported smoking | Aboriginal | Non -Aboriginal | Not stated/ Inadequately described | Total |
|  | n | *%* | n | *%* | n | *%* | n | *%* |
| No smoking during pregnancy | 643 | *58.1* | 67,907 | *87.1* | 210 | *80.8* | 68,760 | *86.7* |
| Continued smoking during pregnancy | 422 | *38.1* | 6,605 | *8.5* | 30 | *11.5* | 7,057 | *8.9* |
| Not known | 42 | *3.8* | 3,440 | *4.4* | 20 | *7.7* | 3,502 | *4.4* |
| **Total** | **1,107** | ***100.0*** | **77,952** | ***100.0*** | **260** | ***100.0*** | **79,319** | ***100.0*** |

Note: Adjusted confinements - see Table 4.1

## Table 4.55: Maternal Body Mass Index by Aboriginal status, adjusted confinements 2016

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BMI | Indigenous | Non Indigenous | Not stated / Inadequately described | Total |
|  | n | *%* | n | *%* | n | *%* | n | *%* |
| < 18.5 | 41 | *3.7* | 2,501 | *3.2* | 6 | *2.3* | 2,548 | *3.2* |
| 18.5 to < 25 | 420 | *37.9* | 39,248 | *50.3* | 127 | *48.8* | 39,795 | *50.2* |
| 25 to < 30 | 249 | *22.5* | 20,115 | *25.8* | 46 | *17.7* | 20,410 | *25.7* |
| 30 to < 35 | 194 | *17.5* | 8,850 | *11.4* | 27 | *10.4* | 9,071 | *11.4* |
| 35 to < 40 | 92 | *8.3* | 3,673 | *4.7* | 12 | *4.6* | 3,777 | *4.8* |
| 40 to <50 | 66 | *6.0* | 1,961 | *2.5* | 7 | *2.7* | 2,034 | *2.6* |
| 50 to <60 | 6 | *0.5* | 185 | *0.2* | 2 | *0.8* | 193 | *0.2* |
| ≥60 | 1 | *0.1* | 41 | *0.1* | 0 | *0.0* | 42 | *0.1* |
| Unknown | 38 | *3.4* | 1378 | *1.8* | 33 | *12.7* | 1,449 | *1.8* |
| **Total** | **1,107** | ***100.0*** | **77,952** | ***100.0*** | **260** | ***100.0*** | **79,319** | ***100.0*** |

Note: Adjusted confinements - see Table 4.1

## Table 4.56: Gestation by maternal Aboriginal status, adjusted total births 2016

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gestation | Mother Aboriginal | Mother non-Aboriginal | Unknown | Total |
|  | n | *%* | n | *%* | n | *%* | n | *%* |
| 20–27 weeks | 6 | *0.5* | 516 | *0.7* | 2 | *0.7* | 524 | *0.7* |
| 28–31 weeks | 8 | *0.7* | 551 | *0.7* | 5 | *1.8* | 564 | *0.7* |
| 32–36 weeks | 133 | *11.9* | 5411 | *6.8* | 27 | *10.0* | 5,571 | *6.9* |
| ***Subtotal preterm*** | ***147*** | ***13.2*** | ***6,478*** | ***8.2*** | ***34*** | ***12.5*** | ***6,659*** | ***8.3*** |
| 37–41 weeks | 969 | *86.8* | 72,388 | *91.4* | 236 | *87.1* | 73,593 | *91.4* |
| 42 weeks + | 1 | *0.1* | 295 | *0.4* | 1 | *0.4* | 297 | *0.4* |
| **Total** | **1,117** | ***100.0*** | **79,161** | ***100.0*** | **271** | ***100.0*** | **80,549** | ***100.0*** |

Note: Adjusted total births total is (T) [T=E + I] in Appendix 3

## Table 4.57: Gestation by maternal and/or baby Aboriginal status, adjusted total births 2016

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Gestation | Mother and/or baby Aboriginal | Neither mother nor baby Aboriginal | Unknown\* | Total |
|  | n | *%* | n | *%* | n | *%* | n | *%* |
| 20–27 weeks | 10 | *0.6* | 372 | *0.5* | 142 | *16.3* | 524 | *0.7* |
| 28–31 weeks | 10 | *0.6* | 512 | *0.7* | 42 | *4.8* | 564 | *0.7* |
| 32–36 weeks | 175 | *10.3* | 5,270 | *6.8* | 126 | *14.4* | 5,571 | *6.9* |
| ***Subtotal preterm*** | ***195*** | ***11.5*** | ***6,154*** | ***7.9*** | ***310*** | ***35.5*** | ***6,659*** | ***8.3*** |
| 37–41 weeks | 1,502 | *88.2* | 71,533 | *91.7* | 558 | *63.9* | 73,593 | *91.4* |
| 42 weeks + | 5 | *0.3* | 287 | *0.4* | 5 | *0.6* | 297 | *0.4* |
| **Total** | **1,702** | ***100.0*** | **77,974** | ***100.0*** | **873** | ***100.0*** | **80,549** | ***100.0*** |

Note: Adjusted total births total is (T) [T=E + I] in Appendix 3

\* The 873 babies with unknown Aboriginal status are cases where the baby's Aboriginality was not

 reported and the mother's Aboriginal status is non-Aboriginal or not known.

|  |
| --- |
| To receive this publication in an accessible format phone 03 9096 0380, using the National Relay Service 13 36 77 if required, or email consultative.councils@safercare.vic.gov.auAuthorised and published by the Victorian Government, 1 Treasury Place, Melbourne.© State of Victoria, Department of Health and Human Services February, 2018.Where the term ‘Aboriginal’ is used it refers to both Aboriginal and Torres Strait Islander people. Indigenous is retained when it is part of the title of a report, program or quotation.Available at https://www2.health.vic.gov.au/hospitals-and-health-services/quality-safety-service/consultative-councils/council-obstetric-paediatric-mortality/mothers-babies-children-report |