**Supplementary file**

**Methods**

*Induction of labour*

The definitions of three categories for onset of labour identified from the Queensland Perinatal Data Collection were as follows [51]:

* Induced - “Medical and/or surgical procedure performed for the purpose of stimulating and establishing labour in a woman who has not commenced labour spontaneously.”;
* Spontaneous - “Labour commences at the onset of regular uterine contractions, which act to produce progressive cervical dilatation and is distinct from spurious labour or spontaneous pre-labour rupture of membranes.”
* No labour (caesarean section) - “Indicates the absence of labour, as in caesarean section performed before the onset of labour or a failed induction.” Note that this includes events when induction of labour results in labour not being established, and a caesarean being required.

Induction of labour as defined above (‘Induced’) was used in this study. We also included unsuccessful but attempted induction as induction of labour. Unsuccessful induction of labour was identified if the reason for caesarean section was one of the following International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Australian Modification (ICD‑10‑AM) codes: O61.0 (Failed medical induction of labour), O61.1 (Failed instrumental induction of labour), O61.8 (Other failed induction of labour) or O61.9 (Failed induction of labour, unspecified).

*Caesarean section*

The definitions of six categories for mode of birth from the Queensland Perinatal Data Collection were as follows [51]:

* Vaginal non-instrumental - “A birth which is achieved solely by the mother’s expulsive efforts requiring no mechanical or surgical assistance.”
* Forceps - “Where forceps are applied to assists the delivery process, including rotation forceps, lift-out, etc.”
* Vacuum Extractor - “An assisted birth using a suction cap applied to the baby’s head, including rotation vacuum, also known as Ventouse Extractor.”
* LSCS - “Lower segment caesarean section, includes hysterotomy.”
* Classical CS - “Classical caesarean section.”
* Other - “Includes birth methods not classified above.”

For this study, we categorised women who were recorded with ‘LSCS’ or ‘Classical CS’ as birth by caesarean section.

*Risk status of pregnancies*

Women were classified as having high-risk pregnancies if any of the following conditions were identified during pregnancy (either pre-existing conditions or new conditions developed during this pregnancy), based upon the World Health Organization (WHO)’s Maternal Morbidity classification and International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Australian Modification (ICD-10-AM) codes, using Dimension 1 for Direct morbidity [52], which includes presence of circulatory (I00-I99), digestive system (K21, K50-K52, K60, K64, K80), endocrine (E00-E90), genitourinary system (N00-N39, N70-N99), mental and mood disorders (F00-F99), musculoskeletal system (M00-M99), nervous system (G00-G99), oncology (C00-C97) or respiratory (G47.3, I26, J45) conditions, infectious diseases (A00, A15-A19, A51, A56, A63, B00-B01, B15-B24, B51-B54, J09-J18), development of gestational trophoblastic disease (O01), gestational diabetes (O24), pregnancy related hypertension (O10-O16), obstetric haemorrhage (O43-O45), nausea and vomiting of pregnancy (O21), cholestasis of pregnancy (O26) or aspiration pneumonitis (O29).

*Pre-pregnancy body mass index (BMI)*

BMI was calculated based on women’s self-reported weight four to six weeks prior to or at conception and categorized based on the WHO classifications [53].

*Socioeconomic status*

We categorized mothers’ socioeconomic status based on the postcode of usual residence using the Socio-Economic Indexes for Areas (SEIFA) - a classification system developed by the Australian Bureau of Statistics (ABS) that ranks areas in Australia according to relative socioeconomic advantage and disadvantage [54].

**Table S1:** **Characteristics of included women by parity and comparison group**

| **Characteristics**  N (%) | **Nulliparous women** | | | | | | | | | | **Parous women** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index week** | | | | | | | | | | **Index week** | | | | | | | | | |
| **37+0 - 37+6** | | **38+0 - 38+6** | | **39+0 - 39+6** | | **40+0 - 40+6** | | **41+0 - 41+6** | | **37+0 - 37+6** | | **38+0 - 38+6** | | **39+0 - 39+6** | | **40+0 - 40+6** | | **41+0 - 41+6** | |
| **IOL**  3,859 | **EM**  111,372 | **IOL**  8,422 | **EM**  98,595 | **IOL**  9,871 | **EM**  78,000 | **IOL**  10,749 | **EM**  46,494 | **IOL**  11,470 | **EM**  10,022 | **IOL**  4,546 | **EM**  122,202 | **IOL**  11,818 | **EM**  104,968 | **IOL**  10,660 | **EM**  80,201 | **IOL**  7,946 | **EM**  44,843 | **IOL**  7,219 | **EM**  8,804 |
| **Demographic characteristics** | | | | | | | | | | | | | | | | | | | | |
| **Mother’s age** (Years) | | | | | | | | | | | | | | | | | | | | |
| 13 - 19 | 272 (7.05) | 7,233 (6.49) | 421 (5.00) | 6,503 (6.60) | 444 (4.50) | 5,221 (6.69) | 430 (4.00) | 3,270 (7.03) | 694 (6.05) | 667 (6.66) | 48 (1.06) | 1,105 (0.90) | 56 (0.47) | 975 (0.93) | 46 (0.43) | 756 (0.94) | 39 (0.49) | 413 (0.92) | 57 (0.79) | 80 (0.91) |
| 20 - 34 | 3,114 (80.69) | 91,091 (81.79) | 6,670 (79.20) | 80,909 (82.06) | 7,823 (79.25) | 64,387 (82.55) | 8,636 (80.34) | 38,488 (82.78) | 9,390 (81.87) | 8,350 (83.32) | 3,288 (72.33) | 91,203 (74.63) | 8,020 (67.86) | 79,225 (75.48) | 7,005 (65.71) | 61,523 (76.71) | 5,437 (68.42) | 34,983 (78.01) | 5,546 (76.83) | 6,840 (77.69) |
| 35 - 54 | 473 (12.26) | 13,048 (11.72) | 1,331 (15.80) | 11,183 (11.34) | 1,604 (16.25) | 8,392 (10.76) | 1,683 (15.66) | 4,736 (10.19) | 1,386 (12.08) | 1,005 (10.03) | 1,210 (26.62) | 29,894 (24.46) | 3,742 (31.66) | 24,768 (23.60) | 3,609 (33.86) | 17,922 (22.35) | 2,470 (31.08) | 9,447 (21.07) | 1,616 (22.39) | 1,884 (21.40) |
| Chi-square  p-value | *0.1982* | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | 0.0019 | | <0.0001 | | <0.0001 | | <0.0001 | | *0.2455* | |
| Mean (Standard deviation) | 27.90 (5.79) | 27.98 (5.47) | 28.75 (5.72) | 27.92 (5.44) | 29.03 (5.67) | 27.81 (5.38) | 29.13 (5.41) | 27.62 (5.34) | 27.97 (5.40) | 27.71 (5.28) | 30.90 (5.59) | 30.70 (5.28) | 31.84 (5.42) | 30.58 (5.24) | 32.15 (5.48) | 30.41 (5.15) | 31.90 (5.22) | 30.23 (5.06) | 30.46 (5.04) | 30.28 (5.03) |
| t-test p-value | *0.3890* | | <0.0001 | | <0.0001 | | <0.0001 | | 0.0003 | | 0.0177 | | <0.0001 | | <0.0001 | | <0.0001 | | 0.0242 | |
| **Pre-pregnancy BMI** (kg/m2) | | | | | | | | | | | | | | | | | | | | |
| 11.8 - 18.5  (Underweight) | 266 (6.89) | 7,495 (6.73) | 425 (5.05) | 6,689 (6.78) | 549 (5.56) | 5,141 (6.59) | 458 (4.26) | 2,909 (6.26) | 498 (4.34) | 607 (6.06) | 255 (5.61) | 6,544 (5.36) | 508 (4.30) | 5,577 (5.31) | 420 (3.94) | 4,072 (5.08) | 287 (3.61) | 2,008 (4.48) | 249 (3.45) | 369 (4.19) |
| 18.5 - 24.9  (Normal weight) | 1,828 (47.37) | 64,122 (57.57) | 3,836 (45.55) | 57,697 (58.52) | 4,965 (50.30) | 46,153 (59.17) | 5,873 (54.64) | 27,330 (58.78) | 6,057 (52.81) | 5,974 (59.61) | 1,920 (42.23) | 62,171 (50.88) | 4,753 (40.22) | 54,587 (52.00) | 4,993 (46.84) | 41,869 (52.21) | 3,785 (47.63) | 23,096 (51.50) | 3,261 (45.17) | 4,565 (51.85) |
| 25.0 - 29.9  (Overweight) | 861 (22.31) | 23,420 (21.03) | 1,961 (23.28) | 20,601 (20.89) | 2,273 (23.03) | 16,307 (20.91) | 2,467 (22.95) | 9,925 (21.35) | 2,751 (23.98) | 2,161 (21.56) | 1,040 (22.88) | 28,709 (23.49) | 2,884 (24.40) | 24,714 (23.54) | 2,577 (24.17) | 19,134 (23.86) | 1,974 (24.84) | 10,972 (24.47) | 1,890 (26.18) | 2,160 (24.53) |
| 30.0 - 86.6  (Obesity) | 904 (23.43) | 16,335 (14.67) | 2,200 (26.12) | 13,608 (13.80) | 2,084 (21.11) | 10,399 (13.33) | 1,951 (18.15) | 6,330 (13.61) | 2,164 (18.87) | 1,280 (12.77) | 1,331 (29.28) | 24,778 (20.28) | 3,673 (31.08) | 20,090 (19.14) | 2,670 (25.05) | 15,126 (18.86) | 1,900 (23.91) | 8,767 (19.55) | 1,819 (25.20) | 1,710 (19.42) |
| Chi-square  p-value | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | |
| Mean (Standard deviation) | 26.05 (6.85) | 24.55 (5.52) | 26.63 (6.91) | 24.40 (5.37) | 25.79 (6.37) | 24.33 (5.24) | 25.40 (5.93) | 24.39 (5.19) | 25.46 (5.69) | 24.27 (5.00) | 27.11 (7.30) | 25.61 (6.07) | 27.59 (7.17) | 25.41 (5.89) | 26.55 (6.64) | 25.39 (5.79) | 26.40 (6.40) | 25.54 (5.77) | 26.56 (6.16) | 25.53 (5.63) |
| t-test p-value | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | |
| **Mother’s country of birth** (Grouped in regions) | | | | | | | | | | | | | | | | | | | | |
| Australia | 2,856 (74.01) | 79,907 (71.75) | 6,043 (71.75) | 70,757 (71.77) | 6,986 (70.77) | 56,331 (72.22) | 7,825 (72.80) | 34,007 (73.14) | 8,429 (73.49) | 7,452 (74.36) | 3,574 (78.62) | 89,911 (73.58) | 9,107 (77.06) | 76,844 (73.21) | 8,158 (76.53) | 58,853 (73.38) | 6,122 (77.05) | 33,317 (74.30) | 5,556 (76.96) | 6,524 (74.10) |
| Oceania (Excludes Australia) | 192 (4.98) | 6,677 (6.00) | 477 (5.66) | 5,982 (6.07) | 537 (5.44) | 4,836 (6.20) | 572 (5.32) | 2,960 (6.37) | 703 (6.13) | 638 (6.37) | 337 (7.41) | 10,664 (8.73) | 921 (7.79) | 9,299 (8.86) | 805 (7.55) | 7,210 (8.99) | 615 (7.74) | 4,151 (9.26) | 608 (8.42) | 819 (9.30) |
| Asia | 516 (13.37) | 14,572 (13.08) | 1,225 (14.55) | 12,687 (12.87) | 1,476 (14.95) | 9,447 (12.11) | 1,347 (12.53) | 5,003 (10.76) | 1,224 (10.67) | 860 (8.58) | 346 (7.61) | 11,446 (9.37) | 1,009 (8.54) | 9,773 (9.31) | 866 (8.12) | 7,021 (8.75) | 547 (6.88) | 3,255 (7.26) | 439 (6.08) | 497 (5.65) |
| Europe | 165 (4.28) | 5,950 (5.34) | 387 (4.60) | 5,353 (5.43) | 475 (4.81) | 4,380 (5.62) | 557 (5.18) | 2,767 (5.95) | 676 (5.89) | 649 (6.48) | 149 (3.28) | 5,261 (4.31) | 419 (3.55) | 4,677 (4.46) | 449 (4.21) | 3,669 (4.57) | 365 (4.59) | 2,157 (4.81) | 329 (4.56) | 472 (5.36) |
| The Americas | 62 (1.61) | 2,099 (1.88) | 140 (1.66) | 1,871 (1.90) | 205 (2.08) | 1,463 (1.88) | 228 (2.12) | 837 (1.80) | 196 (1.71) | 208 (2.08) | 52 (1.14) | 1,499 (1.23) | 128 (1.08) | 1,311 (1.25) | 141 (1.32) | 1,012 (1.26) | 112 (1.41) | 548 (1.22) | 72 (1.00) | 123 (1.40) |
| Africa | 68 (1.76) | 2,167 (1.95) | 150 (1.78) | 1,945 (1.97) | 192 (1.95) | 1,543 (1.98) | 220 (2.05) | 920 (1.98) | 242 (2.11) | 215 (2.15) | 88 (1.94) | 3,421 (2.80) | 234 (1.98) | 3,064 (2.92) | 241 (2.26) | 2,436 (3.04) | 185 (2.33) | 1,415 (3.16) | 215 (2.98) | 369 (4.19) |
| Chi-square  p-value | 0.0015 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | |
| **Mother’s Indigenous status** (Aboriginal and/or Torres Strait Islander) | | | | | | | | | | | | | | | | | | | | |
| Yes | 243 (6.30) | 5,284 (4.74) | 416 (4.94) | 4,582 (4.65) | 354 (3.59) | 3,597 (4.61) | 340 (3.16) | 2,123 (4.57) | 483 (4.21) | 437 (4.36) | 391 (8.60) | 8,341 (6.83) | 818 (6.92) | 6,960 (6.63) | 505 (4.74) | 5,167 (6.44) | 403 (5.07) | 2,779 (6.20) | 438 (6.07) | 511 (5.80) |
| No | 3,616 (93.70) | 106,088 (95.26) | 8,006 (95.06) | 94,013 (95.35) | 9,517 (96.41) | 74,403 (95.39) | 10,409 (96.84) | 44,371 (95.43) | 10,987 (95.79) | 9,585 (95.64) | 4,155 (91.40) | 113,861 (93.17) | 11,000 (93.08) | 98,008 (93.37) | 10,155 (95.26) | 75,034 (93.56) | 7,543 (94.93) | 42,064 (93.80) | 6,781 (93.93) | 8,293 (94.20) |
| Chi-square  p-value | <0.0001 | | *0.2226* | | <0.0001 | | <0.0001 | | *0.5893* | | <0.0001 | | *0.2289* | | <0.0001 | | 0.0001 | | *0.4826* | |
| **Socioeconomic status (**SEIFA) | | | | | | | | | | | | | | | | | | | | |
| 1st quintile (The most disadvantaged) | 243 (6.30) | 7,098 (6.37) | 493 (5.85) | 6,293 (6.38) | 562 (5.69) | 4,921 (6.31) | 539 (5.01) | 3,001 (6.45) | 741 (6.46) | 584 (5.83) | 352 (7.74) | 9,686 (7.93) | 824 (6.97) | 8,388 (7.99) | 706 (6.62) | 6,516 (8.12) | 601 (7.56) | 3,661 (8.16) | 610 (8.45) | 661 (7.51) |
| 2nd quintile | 162 (4.20) | 4,307 (3.87) | 332 (3.94) | 3,780 (3.83) | 346 (3.51) | 2,965 (3.80) | 343 (3.19) | 1,790 (3.85) | 401 (3.50) | 375 (3.74) | 230 (5.06) | 5,723 (4.68) | 515 (4.36) | 4,928 (4.69) | 449 (4.21) | 3,830 (4.78) | 327 (4.12) | 2,181 (4.86) | 342 (4.74) | 400 (4.54) |
| 3rd quintile | 599 (15.52) | 18,040 (16.20) | 1,392 (16.53) | 15,911 (16.14) | 1,471 (14.90) | 12,582 (16.13) | 1,663 (15.47) | 7,394 (15.90) | 1,790 (15.61) | 1,394 (13.91) | 890 (19.58) | 23,510 (19.24) | 2,233 (18.89) | 20,188 (19.23) | 1,782 (16.72) | 15,422 (19.23) | 1,396 (17.57) | 8,546 (19.06) | 1,365 (18.91) | 1,547 (17.57) |
| 4th quintile | 1,474 (38.20) | 42,429 (38.10) | 3,080 (36.57) | 37,670 (38.21) | 3,586 (36.33) | 30,301 (38.85) | 3,847 (35.79) | 18,730 (40.28) | 4,601 (40.11) | 4,383 (43.73) | 1,811 (39.84) | 46,882 (38.36) | 4,517 (38.22) | 40,334 (38.43) | 4,025 (37.76) | 31,114 (38.80) | 2,839 (35.73) | 18,145 (40.46) | 2,963 (41.04) | 3,863 (43.88) |
| 5th quintile (The most advantaged) | 1,381 (35.79) | 39,498 (35.46) | 3,125 (37.11) | 34,941 (35.44) | 3,906 (39.57) | 27,231 (34.91) | 4,357 (40.53) | 15,579 (33.51) | 3,937 (34.32) | 3,286 (32.79) | 1,263 (27.78) | 36,401 (29.79) | 3,729 (31.55) | 31,130 (29.66) | 3,698 (34.69) | 23,319 (29.08) | 2,783 (35.02) | 12,310 (27.45) | 1,939 (26.86) | 2,333 (26.50) |
| Chi-square  p-value | *0.6885* | | 0.0032 | | <0.0001 | | <0.0001 | | <0.0001 | | 0.0376 | | <0.0001 | | <0.0001 | | <0.0001 | | 0.0026 | |
| **Birthplace** | | | | | | | | | | | | | | | | | | | | |
| Public hospital | 2,470 (64.01) | 71,973 (64.62) | 4,757 (56.48) | 64,457 (65.38) | 5,167 (52.35) | 52,475 (67.28) | 5,300 (49.31) | 33,527 (72.11) | 8,106 (70.67) | 7,858 (78.41) | 3,075 (67.64) | 87,173 (71.34) | 6,943 (58.75) | 76,324 (72.71) | 5,807 (54.47) | 60,297 (75.18) | 4,409 (55.49) | 35,669 (79.54) | 5,761 (79.80) | 7,341 (83.38) |
| Private hospital | 1,389 (35.99) | 39,399 (35.38) | 3,665 (43.52) | 34,138 (34.62) | 4,704 (47.65) | 25,525 (32.72) | 5,449 (50.69) | 12,967 (27.89) | 3,364 (29.33) | 2,164 (21.59) | 1,471 (32.36) | 35,029 (28.66) | 4,875 (41.25) | 28,644 (27.29) | 4,853 (45.53) | 19,904 (24.82) | 3,537 (44.51) | 9,174 (20.46) | 1,458 (20.20) | 1,463 (16.62) |
| Chi-square  p-value | *0.4302* | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | |
| **Obstetric characteristics** | | | | | | | | | | | | | | | | | | | | |
| **Presentation of the fetus at birth** | | | | | | | | | | | | | | | | | | | | |
| Cephalic **(**Includes cephalic, vertex, face or brow presentations**)** | 3,820 (98.99) | 109,332 (98.17) | 8,356 (99.22) | 96,853 (98.23) | 9,795 (99.23) | 76,754 (98.40) | 10,652 (99.10) | 45,824 (98.56) | 11,343 (98.89) | 9,866 (98.44) | 4,488 (98.72) | 120,567 (98.66) | 11,683 (98.86) | 103,647 (98.74) | 10,544 (98.91) | 79,302 (98.88) | 7,859 (98.91) | 44,358 (98.92) | 7,145 (98.97) | 8,720 (99.05) |
| Others | 39 (1.01) | 2,040 (1.83) | 66 (0.78) | 1,742 (1.77) | 76 (0.77) | 1,246 (1.60) | 97 (0.90) | 670 (1.44) | 127 (1.11) | 156 (1.56) | 58 (1.28) | 1,635 (1.34) | 135 (1.14) | 1,321 (1.26) | 116 (1.09) | 899 (1.12) | 87 (1.09) | 485 (1.08) | 74 (1.03) | 84 (0.95) |
| Chi-square  p-value | 0.0002 | | <0.0001 | | <0.0001 | | <0.0001 | | 0.0039 | | *0.7202* | | *0.2806* | | *0.7624* | | *0.9157* | | *0.6511* | |
| **Pharmacological analgesia used during labour** | | | | | | | | | | | | | | | | | | | | |
| Yes | 3,445 (89.27) | 95,916 (86.12) | 7,700 (91.43) | 84,786 (85.99) | 9,102 (92.21) | 67,096 (86.02) | 9,943 (92.50) | 40,046 (86.13) | 10,537 (91.87) | 8,487 (84.68) | 3,551 (78.11) | 78,477 (64.22) | 9,475 (80.17) | 65,791 (62.68) | 8,492 (79.66) | 49,135 (61.26) | 6,162 (77.55) | 27,205 (60.67) | 5,451 (75.51) | 5,064 (57.52) |
| No | 414 (10.73) | 15,456 (13.88) | 722 (8.57) | 13,809 (14.01) | 769 (7.79) | 10,904 (13.98) | 806 (7.50) | 6,448 (13.87) | 933 (8.13) | 1,535 (15.32) | 995 (21.89) | 43,725 (35.78) | 2,343 (19.83) | 39,177 (37.32) | 2,168 (20.34) | 31,066 (38.74) | 1,784 (22.45) | 17,638 (39.33) | 1,768 (24.49) | 3,740 (42.48) |
| Chi-square  p-value | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | |
| **Risk status of pregnancy** | | | | | | | | | | | | | | | | | | | | |
| Low-risk | 1,972 (51.10) | 84,322 (75.71) | 4,490 (53.31) | 76,523 (77.61) | 6,356 (64.39) | 61,788 (79.22) | 7,625 (70.94) | 37,319 (80.27) | 8,856 (77.21) | 7,992 (79.74) | 2,521 (55.46) | 96,241 (78.76) | 7,093 (60.02) | 85,021 (81.00) | 7,475 (70.12) | 66,207 (82.55) | 6,025 (75.82) | 37,371 (83.34) | 5,772 (79.96) | 7,416 (84.23) |
| High-risk | 1,887 (48.90) | 27,050 (24.29) | 3,932 (46.69) | 22,072 (22.39) | 3,515 (35.61) | 16,212(20.78) | 3,124 (29.06) | 9,175 (19.73) | 2,614 (22.79) | 2,030 (20.26) | 2,025 (44.54) | 25,961 (21.24) | 4,725 (39.98) | 19,947 (19.00) | 3,185 (29.88) | 13,994 (17.45) | 1,921 (24.18) | 7,472 (16.66) | 1,447 (20.04) | 1,388 (15.77) |
| Chi-square  p-value | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | |
| **Year of birth event** | | | | | | | | | | | | | | | | | | | | |
| 2012 | 229 (5.93) | 9,579 (8.60) | 458 (5.44) | 8,739 (8.86) | 661 (6.70) | 7,139 (9.15) | 837 (7.79) | 4,459 (9.59) | 1,112 (9.69) | 963 (9.61) | 272 (5.98) | 10,651 (8.72) | 783 (6.63) | 9,375 (8.93) | 723 (6.78) | 7,395 (9.22) | 599 (7.54) | 4,313 (9.62) | 723 (10.02) | 847 (9.62) |
| 2013 | 437 (11.32) | 19,571 (17.57) | 1,067 (12.67) | 17,737 (17.99) | 1,358 (13.76) | 14,466 (18.55) | 1,829 (17.02) | 8,870 (19.08) | 2,164 (18.87) | 1,962 (19.58) | 543 (11.94) | 21,065 (17.24) | 1,530 (12.95) | 18,609 (17.73) | 1,489 (13.97) | 14,693 (18.32) | 1,365 (17.18) | 8,470 (18.89) | 1,385 (19.19) | 1,791 (20.34) |
| 2014 | 538 (13.94) | 19,059 (17.11) | 1,171 (13.90) | 17,149 (17.39) | 1,434 (14.53) | 13,878 (17.79) | 1,799 (16.74) | 8,413 (18.09) | 2,043 (17.81) | 1,832 (18.28) | 629 (13.84) | 21,101 (17.27) | 1,677 (14.19) | 18,480 (17.61) | 1,561 (14.64) | 14,433 (18.00) | 1,333 (16.78) | 8,219 (18.33) | 1,303 (18.05) | 1,625 (18.46) |
| 2015 | 674 (17.47) | 18,398 (16.52) | 1,382 (16.41) | 16,295 (16.53) | 1,523 (15.43) | 13,026 (16.70) | 1,807 (16.81) | 7,813 (16.80) | 1,935 (16.87) | 1,703 (16.99) | 759 (16.70) | 20,260 (16.58) | 1,884 (15.94) | 17,455 (16.63) | 1,687 (15.83) | 13,414 (16.73) | 1,299 (16.35) | 7,556 (16.85) | 1,234 (17.09) | 1,481 (16.82) |
| 2016 | 670 (17.36) | 18,483 (16.60) | 1,605 (19.06) | 16,134 (16.36) | 1,761 (17.84) | 12,567 (16.11) | 1,775 (16.51) | 7,384 (15.88) | 1,790 (15.61) | 1,631 (16.27) | 823 (18.10) | 20,163 (16.50) | 2,127 (18.00) | 17,171 (16.36) | 1,938 (18.18) | 12,913 (16.10) | 1,346 (16.94) | 7,060 (15.74) | 1,129 (15.64) | 1,350 (15.33) |
| 2017 | 865 (22.42) | 17,390 (15.61) | 1,810 (21.49) | 14,920 (15.13) | 2,009 (20.35) | 11,233 (14.40) | 1,761 (16.38) | 6,365 (13.69) | 1,607 (14.01) | 1,322 (13.19) | 1,025 (22.55) | 19,275 (15.77) | 2,499 (21.15) | 15,936 (15.18) | 2,130 (19.98) | 11,638 (14.51) | 1,329 (16.73) | 6,232 (13.90) | 973 (13.48) | 1,165 (13.23) |
| 2018 | 446 (11.56) | 8,892 (7.98) | 929 (11.03) | 7,621 (7.73) | 1,125 (11.40) | 5,691 (7.30) | 941 (8.75) | 3,190 (6.86) | 819 (7.14) | 609 (6.08) | 495 (10.89) | 9,687 (7.93) | 1,318 (11.15) | 7,942 (7.57) | 1,132 (10.62) | 5,715 (7.13) | 675 (8.49) | 2,993 (6.67) | 472 (6.54) | 545 (6.19) |
| Chi-square  p-value | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | 0.0174 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | *0.5411* | |
| **Mode of birth** | | | | | | | | | | | | | | | | | | | | |
| Vaginal birth | 2,801 (72.58) | 84,987 (76.31) | 5,760 (68.39) | 75,691 (76.77) | 6,774 (68.63) | 60,058 (77.00) | 7,128 (66.31) | 35,404 (76.15) | 7,257 (63.27) | 7,587 (75.70) | 4,194 (92.26) | 117,028 (95.77) | 11,034 (93.37) | 100,954 (96.18) | 10,048 (94.26) | 77,439 (96.56) | 7,476 (94.09) | 43,259 (96.47) | 6,711 (92.96) | 8,474 (96.25) |
| Caesarean section | 1,058 (27.42) | 26,385 (23.69) | 2,662 (31.61) | 22,904 (23.23) | 3,097 (31.37) | 17,942 (23.00) | 3,621 (33.69) | 11,090 (23.85) | 4,213 (36.73) | 2,435 (24.30) | 352 (7.74) | 5,174 (4.23) | 784 (6.63) | 4,014 (3.82) | 612 (5.74) | 2,762 (3.44) | 470 (5.91) | 1,584 (3.53) | 508 (7.04) | 330 (3.75) |
| Chi-square  p-value | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | | <0.0001 | |

IOL: Induction of Labour; EM: Expectant Management; BMI: Body Mass Index; SEIFA: Socio-Economic Indexes for Areas.

% is column percentage.

*Italic indicated insignificance at 0.05 level*.

**Figure S1: A trend of the proportion of women who gave birth following labour induction**

**among women who gave birth at pre-term, term and post-term**

**Figure S2: A flow diagram of data selection**

Five sub-datasets were created based on the time of birth following labour induction

**Excluded (n = 111,704, 30.58%)**

* Missing values for weeks’ gestation at birth (n = 96, 0.03%)
* Gave birth before 37+0 weeks’ gestation (n = 25,065, 6.86%)
* Had previous caesarean section

(n = 52,878, 14.48%)

* Had caesarean section without labour (n=24,311, 6.66%)
* Missing values for potential confounders (n = 9,354, 2.56%)

Women with singleton pregnancies

(**n = 353,683**, 96.84%)

Women included in our statistical analyses

(**n = 241,979**, 66.25%)

**Excluded (n = 11,548 births, 3.16%)**

* Women with multiple pregnancies (e.g., twins or triplets)

(n = 11,548 births, 3.16%)

The existing administrative dataset recorded all births occurring in Queensland, Australia between 01/07/2012 and 30/06/2018

(**n = 365,231 births**, 100%)