



Appendix 3

**This appendix was part of the submitted manuscript and has been peer reviewed.
It is posted as supplied by the authors.**

Appendix to: Chambers GM, Paul R, Harris K, et al. Assisted reproductive technology in Australia and New Zealand: cumulative live birth rates as measures of success. *Med J Aust* 2017; 207: 114-118. doi: 10.5694/mja16.01435.

Appendix 3. Cycle-specific and cumulative live birth rates for women in Australia and New Zealand commencing assisted reproductive technology (ART) treatment during 2009–2012 and followed until 2014 or the first treatment-dependent live birth

| Cycle number | Number of women starting cycle | Number of live births | ART discontinuation rate | Cycle-specific live birth rate (95% CI) | Conservative live birth rate (95% CI) | Optimal live birth rate (95% CI) |
|--------------|--------------------------------|-----------------------|--------------------------|---|---------------------------------------|----------------------------------|
| All women | | | | | | |
| 1 | 56 652 | 18 506 | 25.7% | 32.7% (32.2–33.1%) | 32.7% (32.2–33.1%) | 32.7% (32.3–33.1%) |
| 2 | 28 356 | 6940 | 30.2% | 24.5% (23.9–25.1%) | 44.9% (44.5–45.3%) | 49.1% (48.7–49.6%) |
| 3 | 14 942 | 2826 | 31.4% | 18.9% (18.2–19.6%) | 49.9% (49.5–50.3%) | 58.8% (58.3–59.2%) |
| 4 | 8312 | 1269 | 30.5% | 15.3% (14.4–19.6%) | 52.1% (51.7–52.6%) | 65.1% (64.5–65.6%) |
| 5 | 4892 | 614 | 30.6% | 12.6% (11.6–13.4%) | 53.2% (52.8–53.6%) | 69.4% (68.9–70.0%) |
| 6 | 2971 | 360 | 32.1% | 12.1% (10.9–13.4%) | 53.9% (53.5–54.3%) | 73.1% (72.5–73.7%) |
| 7 | 1772 | 158 | 31.9% | 8.9% (7.6–10.4%) | 54.1% (53.7–54.6%) | 75.5% (74.9–76.2%) |
| 8 | 1099 | 76 | 32.7% | 6.9% (5.5–8.7%) | 54.3% (53.9–54.7%) | 77.2% (76.5–77.9%) |
| < 30 years | | | | | | |
| 1 | 8774 | 3832 | 27.5% | 43.7% (42.3–45.1%) | 43.7% (42.6–44.7%) | 43.7% (42.6–44.7%) |
| 2 | 3585 | 1396 | 31.1% | 38.9% (36.9–41.0%) | 59.6% (58.5–60.6%) | 65.6% (64.5–66.7%) |
| 3 | 1509 | 526 | 34.0% | 34.9% (32.0–37.9%) | 65.6% (64.6–66.6%) | 77.6% (76.5–78.7%) |
| 4 | 649 | 178 | 33.1% | 27.4% (23.7–31.8%) | 67.6% (66.6–68.6%) | 83.7% (82.6–84.8%) |
| 5 | 315 | 74 | 30.3% | 23.5% (18.7–29.5%) | 68.5% (67.5–69.4%) | 87.6% (86.4–88.7%) |
| 6 | 168 | 46 | 28.7% | 27.4% (20.5–36.6%) | 69.0% (68.0–69.9%) | 91.0% (89.7–92.1%) |
| 7 | 87 | 18 | 37.7% | 20.7% (13.0–32.8%) | 69.2% (68.2–70.1%) | 92.8% (91.6–94.0%) |
| 30–34 years | | | | | | |
| 1 | 17 426 | 7562 | 23.0% | 43.4% (42.4–44.4%) | 43.4% (42.7–44.1%) | 43.4% (42.7–44.1%) |
| 2 | 7594 | 2677 | 27.0% | 35.3% (33.9–36.6%) | 58.8% (58.0–59.5%) | 63.3% (62.6–64.1%) |
| 3 | 3589 | 1006 | 29.0% | 28.0% (26.3–29.8%) | 64.5% (63.8–65.2%) | 73.6% (72.8–74.4%) |
| 4 | 1833 | 453 | 28.3% | 24.7% (22.5–27.1%) | 67.1% (66.4–67.8%) | 80.1% (79.4–80.9%) |
| 5 | 989 | 207 | 29.3% | 20.9% (18.3–24.0%) | 68.3% (67.6–69.0%) | 84.3% (83.5–85.1%) |
| 6 | 553 | 120 | 33.0% | 21.7% (18.0–25.8%) | 69.0% (68.3–69.7%) | 87.7% (86.8–88.5%) |
| 7 | 290 | 45 | 28.2% | 15.5% (11.6–20.8%) | 69.3% (68.6–69.9%) | 89.6% (88.7–90.4%) |
| 8 | 176 | 23 | 32.7% | 13.1% (8.7–19.7%) | 69.4% (68.7–70.1%) | 91.0% (90.0–91.8%) |
| 35–39 years | | | | | | |
| 1 | 19 728 | 6022 | 23.5% | 30.5% (29.8–31.3%) | 30.5% (29.9–31.2%) | 30.5% (29.9–31.2%) |
| 2 | 10 483 | 2370 | 28.8% | 22.6% (21.7–23.5%) | 42.5% (41.8–43.2%) | 46.2% (45.5–47.0%) |
| 3 | 5775 | 1040 | 29.5% | 18.0% (16.9–19.1%) | 47.8% (47.1–48.5%) | 55.9% (55.1–56.7%) |
| 4 | 3,336 | 497 | 29.3% | 14.9% (13.6–16.3%) | 50.3% (49.6–51.0%) | 62.5% (61.6–63.4%) |
| 5 | 2008 | 254 | 30.8% | 12.6% (11.2–14.3%) | 51.6% (50.9–52.3%) | 67.2% (66.3–68.2%) |
| 6 | 1214 | 154 | 29.5% | 12.7% (10.8–14.9%) | 52.4% (51.7–53.1%) | 71.4% (70.4–72.4%) |
| 7 | 747 | 75 | 33.6% | 10.0% (8.0–12.6%) | 52.8% (52.1–53.5%) | 74.3% (73.2–75.4%) |
| 8 | 446 | 36 | 32.2% | 8.1% (5.8–11.2%) | 53.0% (52.2–53.7%) | 76.3% (75.1–77.5%) |

40–44 years

| | | | | | | |
|---|--------|------|-------|--------------------|--------------------|--------------------|
| 1 | 10 102 | 1080 | 29.3% | 10.7% (10.1–11.3%) | 10.7% (10.1–11.3%) | 10.7% (10.1–11.3%) |
| 2 | 6382 | 495 | 33.6% | 7.8% (7.1–8.5%) | 15.6% (14.9–16.3%) | 17.6% (16.8–18.4%) |
| 3 | 3909 | 254 | 34.3% | 6.5% (5.7–7.3%) | 18.1% (17.3–18.9%) | 23.0% (22.0–24.0%) |
| 4 | 2401 | 141 | 32.5% | 5.9% (5.0–6.9%) | 19.5% (18.7–20.3%) | 27.5% (26.3–28.7%) |
| 5 | 1525 | 78 | 30.8% | 5.1% (4.0–6.3%) | 20.3% (19.4–21.1%) | 31.2% (29.8–32.6%) |
| 6 | 1001 | 40 | 34.7% | 4.0% (2.9–5.4%) | 20.7% (19.9–21.5%) | 34.0% (32.4–35.5%) |
| 7 | 628 | 20 | 30.9% | 3.2% (2.1–4.9%) | 20.9% (21.1–21.7%) | 36.1% (34.3–37.8%) |
| 8 | 420 | 12 | 32.6% | 2.9% (1.6–5.0%) | 21.0% (20.2–21.8%) | 37.9% (35.9–39.9%) |

> 44 years

| | | | | | | |
|---|-----|---|-------|------------------|-----------------|-----------------|
| 1 | 622 | 9 | 49.1% | 1.4% (0.8–2.8%) | 1.4% (0.6–2.7%) | 1.4% (0.8–2.8%) |
| 2 | 312 | 2 | 48.4% | 0.6% (0.2–2.6%) | 1.8% (0.8–3.1%) | 2.1% (1.1–3.8%) |
| 3 | 160 | 0 | 41.9% | — | 1.8% (0.8–3.1%) | 2.1% (1.1–3.8%) |
| 4 | 93 | 0 | 40.9% | — | 1.8% (0.8–3.1%) | 2.1% (1.1–3.8%) |
| 5 | 55 | 1 | 35.2% | 1.8% (0.3–12.9%) | 1.9% (1.0–3.3%) | 3.9% (1.5–9.9%) |