



Appendix 2

**This appendix was part of the submitted manuscript and has been peer reviewed.
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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 2. Demographic and treatment characteristics for women in Australia and New Zealand commencing assisted reproductive technology treatment during 2009–2012 and followed up until 2014 or the first treatment-dependent live birth

Characteristics	
Total number of women*	56 652
Number of women achieving first live birth (%)	30 854 (54.5%)
Age at start of first ovarian stimulation cycle (years), median (IQR)	35 (31–39)
Cause of infertility, as diagnosed before the first cycle	
Male factors only	8093 (14.3%)
Female factors only	17 107 (30.2%)
Combined male and female factors	12 577 (22.2%)
Unexplained	14 175 (25.0%)
Not stated	4700 (8.3%)
Total number of initiated single cycles [†] (average number per woman)	171 967 (3.0)
Total number of complete cycles [‡] (average number per woman)	120 930 (2.1)
Proportion of completed cycles resulting in first live birth	25.5%
Number of women undergoing complete cycles, [‡] by number of cycles	
1	28 296 (49.9%)
2	13 414 (23.7%)
3	6630 (11.7%)
≥ 4	8312 (14.7%)
Fresh cycles	
Total number of fresh embryo transfer cycles (average number per woman)	91 233 (1.6)
First live births in fresh embryo transfer cycles (% of events)	20 893 (22.9%)
Number of women having number of fresh embryo transfer cycles [§]	
0	6041 (10.7%)
1	29 436 (52.0%)
2	11 630 (20.5%)
3	4853 (8.6%)
≥ 4	4692 (8.3%)
Number of fresh embryos transferred per embryo transfer event	
1 embryo (% of fresh embryo events)	64 193 (70.4%)
≥ 2 embryos (% of fresh embryo events)	27 040 (29.6%)
Fresh embryo transfer events using ICSI embryos (% of events)	59 481 (65.2%)
Fresh embryo transfer events using blastocysts (% of events)	45 013 (49.3%)
Frozen/thaw cycles	
Total number of thaw embryo transfer cycles (average number per woman)	47 698 (0.8)
First live births in frozen/thaw embryo transfer cycles (% of events)	9961 (20.9%)
Number of frozen/thaw embryo transfer cycles [¶]	
0	32 852 (58.0%)
1	12 070 (21.3%)
2	5808 (10.3%)
3	2861 (5.1%)
≥ 4	3061 (5.4%)
Number of frozen/thaw embryos transferred per embryo transfer procedure	
1 embryo (% of frozen/thaw embryo transfer events)	37 801 (79.3%)
≥ 2 embryos (% of frozen/thaw embryo transfer events)	9898 (20.7%)
Frozen/thaw embryo transfer events using ICSI embryos (% of events)	27 791 (58.3%)
Frozen/thaw embryo transfer events using blastocysts (% of events)	30 264 (63.4%)

ICSI = intracytoplasmic sperm injection.

* Number of women who started their first initiated fresh ovarian stimulation cycle treatment during 2009–2012.

† Either an initiated fresh ovarian stimulation cycle or an initiated frozen/thaw cycle.

‡ A complete cycle represents all fresh and frozen/thaw cycles originating from the one fresh ovarian stimulation cycle.

§ A cycle in which a fresh embryo was transferred into a woman's uterus. Fresh cycles cancelled before transfer are not included.

¶ A cycle in which a frozen/thaw embryo is transferred into a woman's uterus. Frozen/thaw that were cancelled before embryo transfer (eg, a failed thaw) are not included.