

Assisted reproductive technology in Australia and New Zealand 2021

Supplementary tables

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Abbreviations and symbols

ART	assisted reproductive technology
DET	double embryo transfer
GIFT	gamete intrafallopian transfer
ICSI	intracytoplasmic sperm injection
IVF	in vitro fertilisation
OPU	oocyte pick-up
PESA	percutaneous epididymal sperm aspiration
PGT	preimplantation genetic testing
SET	single embryo transfer
..	not applicable
%	percentage
n	number

Introductory Notes

This document contains the supplementary on-line tables for the Assisted Reproductive Technology in Australia and New Zealand 2021 report. These supplementary tables should be read in conjunction with the report. A copy of the report can be found at the National Perinatal Epidemiology and Statistics Unit website:

<https://npesu.unsw.edu.au/data-collection/australian-new-zealand-assisted-reproduction-database-anzard>

Treatment cycles undertaken in 2021 and resulting pregnancy and birth outcomes

This supplementary report presents information on assisted reproductive technology (ART) treatment cycles undertaken in fertility clinics in Australia and New Zealand in 2021, along with the resulting pregnancy and birth outcomes.

The data presented in these supplementary tables are for autologous cycles, oocyte donation cycles and oocyte/embryo recipient cycles, and does not include information on donor sperm insemination, gamete intrafallopian transfer or surrogacy arrangements. The data reflects treatment cycles and not patients. Therefore, it is possible for an individual woman or couple to undergo more than one treatment cycle in a year and to experience more than one pregnancy. This means that the information reported about patient characteristics, such as age, parity and cause of infertility, is based on calculations in which individuals may be counted more than once.

The rates of clinical pregnancy and live birth are measured per initiated cycle. However, where the number of initiated cycles is not available or not applicable, for example when reporting outcomes from blastocyst or cleavage stage embryos (e.g. Table S5), rates are reported per embryo transfer cycle. Where applicable, percentages in tables have been calculated including the 'Not stated' category in the denominator. Totals and subtotals may not round to 100.0 due to rounding.

Table S1: Treatment cycles by cause of infertility, treatment type and procedure, Australia and New Zealand, 2021

Cause of infertility	Autologous				Oocyte/embryo recipient	All
	Fresh IVF	Fresh ICSI	Fresh other ^(a)	Thaw		
	n					
Tubal disease only	1,233	462	236	1,635	22	3,588
Endometriosis only	1,601	1,050	368	2,166	63	5,248
Other female factors only	5,303	5,862	2,421	7,667	1,101	22,354
Combined female factors only	1,140	1,120	355	1,927	152	4,694
Combined female-male factors	1,046	5,040	981	4,505	350	11,922
Male factor infertility only	587	6,181	860	5,882	119	13,629
Unexplained infertility	7,914	5,921	1,846	10,994	291	26,966
Not stated	21	12	7	33	4	77
Non-medical infertility	316	863	451	868	42	2,540
All causes	19,161	26,511	7,525	35,677	2,144	91,018
	%					
Tubal disease only	6.4	1.7	3.1	4.6	1.0	3.9
Endometriosis only	8.4	4.0	4.9	6.1	2.9	5.8
Other female factors only	27.7	22.1	32.2	21.5	51.4	24.6
Combined female factors only	5.9	4.2	4.7	5.4	7.1	5.2
Combined female-male factors	5.5	19.0	13.0	12.6	16.3	13.1
Male factor infertility only	3.1	23.3	11.4	16.5	5.6	15.0
Unexplained infertility	41.3	22.3	24.5	30.8	13.6	29.6
Not stated	0.1	0.0	0.1	0.1	0.2	0.1
Non-medical infertility	1.6	3.3	6.0	2.4	2.0	2.8
All causes	100.0	100.0	100.0	100.0	100.0	100.0

(a) Fresh other includes cycles in which oocytes were not retrieved, cycles with oocyte retrieval but no fertilisation and cancelled oocyte pick-up (OPU).

Note: Percentages in the table were calculated including the 'Not stated' category in the denominator. Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S2: Autologous treatment cycles by cause of infertility and source of sperm, Australia and New Zealand, 2021

Cause of infertility	Source of sperm							
	Male intending parent		Donor		Not stated ^(a)		Total	
	n	%	n	%	n	%	n	%
Tubal disease only	3,337	4.2	2	0.1	227	3.2	3,566	4.0
Endometriosis only	4,817	6.0	14	1.0	354	5.0	5,185	5.8
Other female factors only	18,815	23.4	134	9.5	2,304	32.5	21,253	23.9
Combined female factors only	4,188	5.2	16	1.1	338	4.8	4,542	5.1
Combined female-male factors	10,322	12.8	324	22.9	926	13.1	11,572	13.0
Male factor infertility only	11,927	14.8	769	54.3	814	11.5	13,510	15.2
Unexplained infertility	24,870	30.9	136	9.6	1,669	23.6	26,675	30.0
Not stated	64	0.1	2	0.1	7	0.1	73	0.1
Non-medical infertility	2,031	2.5	19	1.3	448	6.3	2,498	2.8
All causes	80,371	100.0	1,416	100.0	7,087	100.0	88,874	100.0

a) Includes cycles that did not progress to fertilisation (e.g., cancelled cycles, failed fertilisation, and freeze-all cycles)

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S3: Outcome of embryo transfer cycles by technique of sperm retrieval, Australia and New Zealand, 2021

Stage/outcome of treatment	Site of sperm extraction				
	Ejaculate	Epididymis ^(a)	Testicular	Other	Not stated
Embryo transfers	62,732	533	2,077	7	2,545
Clinical pregnancies	23,011	185	736	2	971
Live births ^(b)	18,237	148	568	2	787
<i>Clinical pregnancies per embryo transfer cycle (%)</i>	36.7	34.7	35.4	28.6	38.2
<i>Live births per embryo transfer cycle (%)</i>	29.1	27.8	27.3	28.6	30.9

(a) Epididymal sperm is extracted by either open biopsy or percutaneous epididymal sperm aspiration (PESA).

(b) A live birth is the birth of one or more liveborn infants, with the birth of twins or higher order multiples counted as one live birth.

Note: Data should be interpreted with caution due to small numbers in certain cells.

Table S4: Embryo transfer cycles by number of embryos transferred, treatment type and procedure, Australia and New Zealand, 2021

Number of embryos	Autologous			Oocyte/embryo recipient	All
	Fresh IVF	Fresh ICSI	Thaw		
	n				
1	9,929	13,773	36,940	2,874	63,516
2	815	1,547	1,783	182	4,327
≥ 3	10	33	8		51
Total	10,754	15,353	38,731	3,056	67,894
	%				
1	92.3	89.7	95.4	94.0	93.6
2	7.6	10.1	4.6	6.0	6.4
≥ 3	0.1	0.2	0.0	0.0	0.1
Total	100.0	100.0	100.0	100.0	100.0

Note: Data should be interpreted with caution due to small numbers in certain cells.

Table S5: Outcome of embryo transfer cycles by stage of embryo development, Australia and New Zealand, 2021

Stage/outcome of treatment	Fresh		Thaw		
	Cleavage-stage embryos	Blastocysts	Thawed and transferred cleavage-stage embryos	Thawed cleavage and transferred blastocysts	Thawed and transferred blastocysts
Embryo transfers	4,650	22,113	1,113	967	39,051
Clinical pregnancies	953	7,815	235	302	15,599
Live births ^(a)	711	6,119	187	234	12,491
<i>Clinical pregnancies per transfer cycle (%)</i>	20.5	35.3	21.1	31.2	39.9
<i>Live deliveries per transfer cycle (%)</i>	15.3	27.7	16.8	24.2	32.0

(a) A live birth is the birth of one or more liveborn infants, with the birth of twins or higher order multiples counted as one live birth.

Note: Data should be interpreted with caution due to small numbers in certain cells.

Table S6: Clinical pregnancies of less than 20 weeks gestation by cause of infertility and pregnancy outcome, Australia and New Zealand, 2021

Cause of infertility	Pregnancy outcome							
	Miscarriage		Fetal reduction or termination		Ectopic/heterotopic pregnancy		Total	
	n	%	n	%	n	%	n	%
Tubal disease only	139	3.6	8	4.0	10	4.3	157	3.6
Endometriosis only	192	4.9	14	7.0	22	9.4	228	5.3
Other female factors only	980	25.2	46	23.0	59	25.1	1,085	25.1
Combined female factors only	204	5.2	9	4.5	10	4.3	223	5.2
Combined female-male factors	508	13.1	26	13.0	22	9.4	556	12.9
Male factor infertility only	623	16.0	37	18.5	29	12.3	689	15.9
Unexplained infertility	1,170	30.1	49	24.5	75	31.9	1,294	29.9
Not stated	7	0.2	0	0.0	0	0.0	7	0.2
Non-medical infertility	66	1.7	11	5.5	8	3.4	85	2.0
All causes	3,889	100.0	200	100.0	235	100.0	4,324	100.0

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S7: Births by cause of infertility and birth outcome, Australia and New Zealand, 2021

Cause of infertility	Birth outcome					
	Live birth ^(a)		Stillbirth ^(b)		Total ^(c)	
	n	%	n	%	n	%
Tubal disease only	769	98.5	6	0.8	781	100.0
Endometriosis only	1,157	98.8	11	0.9	1,171	100.0
Other female factors only	3,572	98.6	41	1.1	3,623	100.0
Combined female factors only	830	98.5	12	1.4	843	100.0
Combined female-male factors	2,184	98.7	23	1.0	2,212	100.0
Male factor infertility only	3,119	98.9	18	0.6	3,154	100.0
Unexplained infertility	5,625	98.9	39	0.7	5,689	100.0
Not stated	13	100.0	0	0.0	13	100.0
Non-medical infertility	355	99.4	2	0.6	357	100.0
All causes	17,624	98.8	152	0.9	17,843	100.0

(a) A live birth is the birth of one or more liveborn infants, with the birth of twins or higher order multiples counted as one live birth.

(b) A stillbirth is birth of an infant after 20 or more weeks gestation or 400 grams or more birthweight that shows no signs of life. Stillbirths are reported by patients to fertility centre staff. These data are not official vital statistics.

(c) Total includes 67 births where birth outcome was unknown

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S8: Births by gestational age and cause of infertility, Australia and New Zealand, 2021

Gestational age (weeks)	Female factor									
	Tubal disease only	Endometriosis only	Other female factors only	Combined female factors only	Combined female-male factors	Male factor infertility only	Unexplained infertility	Not stated	Non-medical infertility	All causes
<i>Mean (weeks)</i>	37.9	38.0	37.8	37.8	38.0	38.3	38.1	38.3	38.1	38.0
	n									
≤ 27	16	20	77	16	36	28	57	0	3	253
28-31	4	9	47	13	21	23	61	0	2	180
32-36	77	96	354	85	208	275	456	2	38	1,591
< 37 ^(a)	97	125	478	114	265	326	574	2	43	2,024
≥ 37	684	1,046	3,145	729	1,946	2,828	5,114	11	314	15,817
Not stated	0	0	0	0	1	0	1	0	0	2
Total	781	1,171	3,623	843	2,212	3,154	5,689	13	357	17,843
	%									
≤ 27	2.0	1.7	2.1	1.9	1.6	0.9	1.0	0.0	0.8	1.4
28-31	0.5	0.8	1.3	1.5	0.9	0.7	1.1	0.0	0.6	1.0
32-36	9.9	8.2	9.8	10.1	9.4	8.7	8.0	15.4	10.6	8.9
< 37 ^(a)	12.4	10.7	13.2	13.5	12.0	10.3	10.1	15.4	12.0	11.3
≥ 37	87.6	89.3	86.8	86.5	88.0	89.7	89.9	84.6	88.0	88.6
Not stated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) A gestation of less than 37 weeks is defined as a preterm birth.

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S9: Births by gestational age and maternal age, Australia and New Zealand, 2021

Gestational age (weeks)	Age group (years) ^(a)						All
	≤ 24	25-29	30-34	35-39	40-44	≥ 45	
Mean (weeks)	38.4	38.0	38.1	38.1	37.8	37.4	38.0
	n						
≤ 27	1	25	83	113	47	7	276
28-31	0	21	65	81	34	3	204
32-36	7	147	596	720	270	48	1,788
< 37 ^(b)	8	193	744	914	351	58	2,268
≥ 37	91	1,388	5,797	7,301	2,790	334	17,701
Not Stated	0	0	0	0	0	2	2
Total	99	1,581	6,541	8,215	3,141	394	19,971
	%						
≤ 27	1.0	1.6	1.3	1.4	1.5	1.8	1.4
28-31	0.0	1.3	1.0	1.0	1.1	0.8	1.0
32-36	7.1	9.3	9.1	8.8	8.6	12.2	9.0
< 37 ^(b)	8.1	12.2	11.4	11.1	11.2	14.7	11.4
≥ 37	91.9	87.8	88.6	88.9	88.8	84.8	88.6
Not stated	0.0	0.0	0.0	0.0	0.0	0.5	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Age at time of birth

(b) A gestation of less than 37 weeks is defined as a preterm birth.

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S10: Early pregnancy loss by maternal age, Australia and New Zealand, 2021

Pregnancy outcome	Age group (years) ^(a)						All
	≤ 24	25-29	30-34	35-39	40-44	≥ 45	
	n						
Miscarriage	24	295	1,129	1,745	1,099	109	4,401
Termination or fetal reduction	0	17	52	83	65	9	226
Ectopic or heterotopic pregnancy	0	14	89	88	57	2	250
Total	24	326	1,270	1,916	1,221	120	4,877
	%						
Miscarriage	100.0	90.5	88.9	91.1	90.0	90.8	90.2
Termination or fetal reduction	0.0	5.2	4.1	4.3	5.3	7.5	4.6
Ectopic or heterotopic pregnancy	0.0	4.3	7.0	4.6	4.7	1.7	5.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Age at end of pregnancy

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S11: Births by plurality and maternal age, Australia and New Zealand, 2021

Gestation	Age group (years) ^(a)						All
	≤ 24	25-29	30-34	35-39	40-44	≥ 45	
	n						
Singleton	98	1,527	6,335	7,950	3,069	387	19,366
Twin	1	53	200	259	72	7	592
Higher order multiple	0	1	6	6	0	0	13
Total	99	1,581	6,541	8,215	3,141	394	19,971
	%						
Singleton	99.0	96.6	96.9	96.8	97.7	98.2	97.0
Twin	1.0	3.4	3.1	3.2	2.3	1.8	3.0
Higher order multiple	0.0	0.1	0.1	0.1	0.0	0.0	0.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Age at time of birth

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S12: Birth outcomes by maternal age, Australia and New Zealand, 2021

Birth outcome	Age group (years) ^(a)						All
	≤ 24	25-29	30-34	35-39	40-44	≥ 45	
	n						
Live birth ^(b)	96	1,559	6,473	8,127	3,100	387	19,742
Stillbirth ^(c)	2	15	42	66	30	6	161
Not stated	1	7	26	22	11	1	68
Total	99	1,581	6,541	8,215	3,141	394	19,971
	%						
Live birth ^(b)	97.0	98.6	99.0	98.9	98.7	98.2	98.9
Stillbirth ^(c)	2.0	0.9	0.6	0.8	1.0	1.5	0.8
Not stated	1.0	0.4	0.4	0.3	0.4	0.3	0.3
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Age at time of birth

(b) A live birth is the birth of one or more liveborn infants, with the birth of twins or higher order multiples counted as one live birth.

(c) A stillbirth is the birth of an infant after 20 or more weeks gestation or 400 grams or more birthweight that shows no signs of life. Stillbirths are reported by patients to fertility centre staff. These data are not official vital statistics.

Note: Percentages in the table were calculated including the 'Not stated' category in the denominator. Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S13: Early pregnancy loss by number of embryos transferred, Australia and New Zealand, 2021

Pregnancy outcome	Number of embryos transferred			All
	One	Two	Three or more	
	n			
Miscarriage	4,103	297	1	4,401
Fetal reduction or termination	211	15	0	226
Ectopic or heterotopic pregnancy	232	18	0	250
Total	4,546	330	1	4,877
	%			
Miscarriage	90.3	90.0	100.0	90.2
Fetal reduction or termination	4.6	4.5	0.0	4.6
Ectopic or heterotopic pregnancy	5.1	5.5	0.0	5.1
Total	100.0	100.0	100.0	100.0

Note: Percentages in the table were calculated including the 'Not stated' category in the denominator. Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S14: Births by birth outcome and number of embryos transferred, Australia and New Zealand, 2021

Birth outcome	Number of embryos transferred			All
	One	Two	Three or more	
	n			
Live birth ^(a)	18,776	958	8	19,742
Stillbirth ^(b)	150	11	0	161
Not stated	68	0	0	68
Total	18,994	969	8	19,971
	%			
Live birth ^(a)	98.9	98.9	100.0	98.9
Stillbirth ^(b)	0.8	1.1	0.0	0.8
Not stated	0.4	0.0	0.0	0.3
Total	100.0	100.0	100.0	100.0

(a) A live birth is the birth of one or more liveborn infants, with the birth of twins or higher order multiples counted as one live birth.

(b) A stillbirth is the birth of an infant after 20 or more weeks gestation or 400 grams or more birthweight that shows no signs of life. Stillbirths are reported by patients to fertility centre staff. These data are not official vital statistics.

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S15: Births by gestational age and number of embryos transferred, Australia and New Zealand, 2021

Gestational age (weeks)	Number of embryos transferred			All
	One	Two	Three or more	
<i>Mean (weeks)</i>	38.1	37.2	36.3	38.0
	n			
≤27	253	23	0	276
28-31	189	14	1	204
32-36	1,587	199	2	1,788
<37 ^(a)	2,029	236	3	2,268
≥37	16,963	733	5	17,701
Not stated	2	0	0	2
Total	18,994	969	8	19,971
	%			
≤27	1.3	2.4	0.0	1.4
28-31	1.0	1.4	12.5	1.0
32-36	8.4	20.5	25.0	9.0
<37 ^(a)	10.7	24.4	37.5	11.4
≥37	89.3	75.6	62.5	88.6
Not stated	0.0	0.0	0.0	0.0
Total	100.0	100.0	100.0	100.0

(a) A gestation of less than 37 weeks is defined as preterm.

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S16: Births by plurality, treatment type and procedure, Australia and New Zealand, 2021

Gestation	Autologous			Oocyte/embryo recipient	All
	Fresh IVF	Fresh ICSI	Thaw		
	n				
Singleton	2,740	3,715	12,007	904	19,366
Twin	72	140	349	31	592
Higher order multiple	2	4	7	0	13
Total	2,814	3,859	12,363	935	19,971
	%				
Singleton	97.4	96.3	97.1	96.7	97.0
Twin	2.6	3.6	2.8	3.3	3.0
Higher order multiple	0.1	0.1	0.1	0.0	0.1
Total	100.0	100.0	100.0	100.0	100.0

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S17: Gestational age of babies by birth outcomes, Australia and New Zealand, 2021

Gestational age (weeks)	Live birth ^(a)		Stillbirth ^(b)		All ^(c)	
	n	%	n	%	n	%
Mean (weeks)	38.0		26.5		37.9	
≤ 27	176	57.3	127	41.4	307	100.0
28-31	239	97.2	7	2.8	246	100.0
32-36	2,152	98.8	24	1.1	2,179	100.0
< 37 ^(d)	2,567	94.0	158	5.8	2,732	100.0
≥ 37	17,772	99.5	23	0.1	17,855	100.0
Not Stated	1	50.0	0	0.0	2	100.0
Total	20,340	98.8	181	0.9	20,589	100.0

(a) A live birth is the birth of an infant at 20 or more weeks gestation or 400 grams or more birthweight showing signs of life.

(b) A stillbirth is the birth of an infant after 20 or more weeks gestation or 400 grams or more birthweight that shows no signs of life. Stillbirths are reported by patients to fertility centre staff. These data are not official vital statistics.

(c) Includes 68 babies where the birth status was not adequately reported

(d) A gestation of less than 37 weeks is defined as preterm.

.. not applicable

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S18: Birthweight of babies by birth outcomes, Australia and New Zealand, 2021

Birthweight (grams)	Live birth ^(a)		Stillbirth ^(b)		All ^(c)	
	n	%	n	%	n	%
Mean (grams)	3215		1236		3205	
<1500	367	1.8	72	39.8	439	2.1
1500-2499	1,725	8.5	10	5.5	1,735	8.4
2500-3499	11,176	54.9	16	8.8	11,201	54.4
3500 - 4500	6,598	32.4	6	3.3	6,609	32.1
>4500	213	1.0	0	0.0	214	1.0
Not stated	261	1.3	77	42.5	391	1.9
Total	20,340	100.0	181	100.0	20,589	100.0

(a) A live birth is the birth of an infant at 20 or more weeks gestation or 400 grams or more birthweight showing signs of life.

(b) A stillbirth is the birth of an infant after 20 or more weeks gestation or 400 grams or more birthweight that shows no signs of life. Stillbirths are reported by patients to fertility centre staff. These data are not official vital statistics.

(c) Includes 68 babies where the birth status was not adequately reported.

(d) A birthweight of less than 2,500 grams is defined as low birthweight.

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S19: Birthweight of babies by treatment type and procedure, Australia and New Zealand, 2021

Birthweight (grams)	Autologous			Oocyte/embryo recipient	All
	Fresh IVF	Fresh ICSI	Thaw		
<i>Mean (grams)</i>	3109	3128	3257	3130	3205
	n				
<1500	76	106	230	27	439
1500-2499	290	404	937	104	1,735
2500-3499	1,672	2,261	6,726	542	11,201
3500 - 4500	775	1,119	4,449	266	6,609
>4500	18	28	160	8	214
Not stated	59	89	224	19	391
Total	2,890	4,007	12,726	966	20,589
	%				
<1500	2.6	2.6	1.8	2.8	2.1
1500-2499	10.0	10.1	7.4	10.8	8.4
2500-3499	57.9	56.4	52.9	56.1	54.4
3500 - 4500	26.8	27.9	35.0	27.5	32.1
>4500	0.6	0.7	1.3	0.8	1.0
Not stated	2.0	2.2	1.8	2.0	1.9
Total	100.0	100.0	100.0	100.0	100.0

(a) A birthweight of less than 2,500 grams is defined as low birthweight.

Note: Totals and subtotals may not equal 100.0 due to rounding. Data should be interpreted with caution due to small numbers in certain cells.

Table S20: Perinatal mortality of babies by type of death and treatment type and procedure, Australia and New Zealand, 2021

Treatment type	All births	Live births	Stillbirths ^(a)		Neonatal deaths ^(b)		Perinatal deaths ^(a,b)	
			n	Rate ^(c,e)	n	Rate ^(d,f)	n	Rate ^(c,g)
Fresh IVF	2,890	2,861	20	6.9	12	4.2	32	11.1
Fresh ICSI	4,007	3,961	39	9.7	23	5.8	62	15.5
Thaw	12,726	12,566	109	8.6	38	3.0	147	11.6
Oocyte/embryo recipient	966	952	13	13.5	5	5.3	18	18.6
All	20,589	20,340	181	8.8	78	3.8	259	12.6

(a) Stillbirth is reported by patients to fertility centre staff. These data are not official vital statistics.

(b) Neonatal deaths are reported by patients to fertility centre staff. These data are not official vital statistics.

(c) Stillbirth and perinatal mortality rates were calculated using all births (live births and stillbirths) as the denominator.

(d) Neonatal death rate was calculated using live births as the denominator.

(e) Stillbirths per 1,000 births.

(f) Neonatal deaths per 1,000 live births.

(g) Perinatal deaths per 1,000 births.

Note: The birth status was not adequately reported for 68 births.

Table S21: Perinatal mortality of babies by type of death and maternal age, Australia and New Zealand, 2021

Age group (years) ^(a)	All births	Live births	Stillbirths ^(b)		Neonatal deaths ^(c)		Perinatal deaths ^(b,c)	
			n	Rate ^(d,f)	n	Rate ^(e,g)	n	Rate ^(d,h)
≤24	100	97	2	20.0	0	0.0	2	20.0
25-29	1,636	1,612	17	10.4	8	5.0	25	15.3
30-34	6,753	6,679	48	7.1	19	2.8	67	9.9
35-39	8,486	8,390	74	8.7	31	3.7	105	12.4
40-44	3,213	3,168	34	10.6	16	5.1	50	15.6
≥45	401	394	6	15.0	4	10.2	10	24.9
Total	20,589	20,340	181	8.8	78	3.8	259	12.6

(a) Age at time of birth.

(b) Stillbirths are reported by patients to fertility centre staff. These data are not official vital statistics.

(c) Neonatal deaths are reported by patients to fertility centre staff. These data are not official vital statistics.

(d) Stillbirth and perinatal mortality rates were calculated using all births (live births and stillbirths) as the denominator.

(e) Neonatal death rate was calculated using live births as the denominator.

(f) Stillbirths per 1,000 births.

(g) Neonatal deaths per 1,000 live births.

(h) Perinatal deaths per 1,000 births.

Note: The birth status was not reported 68 births.

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