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Assisted reproduction technology in Australia and New Zealand 2005

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Introductory Notes

The assisted reproduction technology (ART) data presented in this supplement are for autologous cycles and donation/recipient cycles that took place in fertility centres Australia and New Zealand in 2005, and the resulting pregnancies and births. Donor sperm insemination (DI), gamete intrafallopian transfer (GIFT) and surrogacy cycles are not included in this supplement.

Data source

The data presented in this report are supplied by fertility centres in Australia and New Zealand. The data are compiled into Australia and New Zealand Assisted Reproduction Database (ANZARD). ANZARD includes information about the ART treatment procedures of in-vitro fertilisation (IVF), intracytoplasmic sperm injection (ICSI) and GIFT. It also includes information about ART treatment using thawed embryos; treatment involving donated gametes or embryos; the use of techniques such as assisted hatching, preimplantation genetic diagnosis (PGD) and blastocyst culture; and DI cycles. ANZARD also contains information on outcomes in pregnancies and births. This includes method of birth, birth status, birthweight, gestational age, plurality, perinatal mortality and selected information on maternal morbidity. ANZARD does not contain information about artificial insemination if the woman's partner's sperm was used.

Data validation

Most fertility centres have computerised data management systems and are able to provide the National Perinatal Statistics Unit (NPSU) with high-quality data. The NPSU subjects all data to an extensive process of validation. Data queries are followed up with fertility centre staff. In 2005, information relating to pregnancy and birth outcomes was not stated for less than 0.3% of cycles. The Reproductive Technology Accreditation Committee (RTAC) plays a role in ensuring the quality of ANZARD data by validating selected records against clinic files in their triennial inspections.

Data presentation

Data presented are for treatment cycles and not patients. Thus, it is possible that an individual woman can undergo more than one treatment cycle in a year or experience more than one pregnancy. This also means that information reported about patient characteristics, such as age and cause of infertility, are based on calculations in which individuals may be counted more than once.

The success rates of clinical pregnancy and live delivery were measured per initiated cycle. Where the number of initiated cycles was not available, e.g. using blastocysts or cleavage stage embryos, the success rates were measured per embryo transfer cycle.

Where applicable, percentages in tables have been calculated including the 'Not stated' category. Throughout the report, for totals, percentages may not add up to 100.0 and, for

subtotals, they may not add up to the sum of the percentage for the categories. This is due to rounding.

Data limitations

Follow-up of information on pregnancy and on birth outcomes is limited because the ongoing care of pregnant patients is often carried out by non-ART practitioners. The method of follow-up varies by fertility centre and includes follow-up with the patient or clinician or use of routine data sourced from a health department. In a small proportion of cases this information is not available. For pregnancies in which there is successful follow-up, data are limited by the self-reported nature of the information. These data include pregnancy complications, complications of fertility treatment and infant morbidity. Fertility centre staff invest significant effort in validating such information by obtaining medical records from clinicians or hospitals. Data about previous ART treatment and history of pregnancies are, in some cases, reported by patients.

Abbreviations and symbols

ANZARD	Australian and New Zealand Assisted Reproduction Database
ART	Assisted reproduction technology
ET	embryo transfer
GIFT	gamete intrafallopian transfer
g	grams
ICSI	intracytoplasmic sperm injection
IVF	in-vitro fertilisation
LMP	last menstrual period
OPU	oocyte pick-up
PESA	percutaneous epididymal sperm aspiration
..	not applicable
—	null cells

Table W1: Number of embryo transfer cycles by number of embryo transferred, treatment type and procedure, Australia and New Zealand, 2005

Number of embryos	Autologous			Oocytes/ embryos recipient	All
	Fresh IVF	Fresh ICSI	Thaw		
			Number		
1	4,324	5,511	8,271	687	18,793
2	4,655	6,944	6,887	934	19,420
≥ 3	166	349	196	38	749
Total	9,145	12,804	15,354	1,659	38,962
			Per cent		
1	47.3	43.0	53.9	41.4	48.2
2	50.9	54.2	44.9	56.3	49.8
≥ 3	1.8	2.7	1.3	2.3	1.9
Total	100.0	100.0	100.0	100.0	100.0

Table W2: Number of ART treatment cycles by cause of infertility, treatment type and procedure, Australia and New Zealand, 2005

Cause of infertility	Autologous				Oocytes/embryos recipient	All
	Fresh IVF	Fresh ICSI	Fresh other ^(a)	Thaw		
						Number
Male factor only	808	6,341	731	4,708	246	12,834
<i>Female factor</i>	<i>5,529</i>	<i>2,027</i>	<i>1,230</i>	<i>6,055</i>	<i>748</i>	<i>15,589</i>
Tubal disease only	1,485	472	239	1,647	81	3,924
Endometriosis only	1,091	414	198	1,075	73	2,851
Other female factor only	2,258	893	617	2,693	539	7,000
Combined female factor	695	248	176	640	55	1,814
Combined male/female factor	887	3,515	601	2,435	277	7,715
Unexplained	2,729	1,831	597	2,710	298	8,165
Not stated	479	525	165	851	242	2,262
All causes	10,432	14,239	3,324	16,759	1,811	46,565
						Per cent
Male factor only	7.7	44.5	22.0	28.1	13.6	27.6
<i>Female factor</i>	<i>53.0</i>	<i>14.2</i>	<i>37.0</i>	<i>36.1</i>	<i>41.3</i>	<i>33.5</i>
Tubal disease only	14.2	3.3	7.2	9.8	4.5	8.4
Endometriosis only	10.5	2.9	6.0	6.4	4.0	6.1
Other female factor only	21.6	6.3	18.6	16.1	29.8	15.0
Combined female factor	6.7	1.7	5.3	3.8	3.0	3.9
Combined male/female factor	8.5	24.7	18.1	14.5	15.3	16.6
Unexplained	26.2	12.9	18.0	16.2	16.5	17.5
Not stated	4.6	3.7	5.0	5.1	13.4	4.9
All causes	100.0	100.0	100.0	100.0	100.0	100.0

(a) Includes cycles in which oocytes were not retrieved, cycles with oocyte retrieval but no fertilisation and cancelled OPU.

Table W3: Number of autologous ART treatment cycles by cause of infertility and source of sperm, Australia and New Zealand, 2005

Cause of infertility	Husband/partner		Donor		Not stated		Total	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Male factor only	11,233	89.2	676	5.4	679	5.4	12,588	100.0
<i>Female factor</i>	<i>12,955</i>	<i>87.3</i>	<i>586</i>	<i>3.9</i>	<i>1,300</i>	<i>8.8</i>	<i>14,841</i>	<i>100.0</i>
Tubal disease only	3,520	91.6	50	1.3	273	7.1	3,843	100.0
Endometriosis only	2,523	90.8	49	1.8	206	7.4	2,778	100.0
Other female factor only	5,374	83.2	435	6.7	652	10.1	6,461	100.0
Combined female factor	1,538	87.4	52	3.0	169	9.6	1,759	100.0
Combined male/female factor	6,598	88.7	290	3.9	550	7.4	7,438	100.0
Unexplained	6,966	88.5	219	2.8	682	8.7	7,867	100.0
Not stated	1,752	86.7	107	5.3	161	8.0	2,020	100.0
All causes	39,504	88.3	1,878	4.2	3,372	7.5	44,754	100.0

Table W4: Number of embryo transfer cycles by stage/outcome of ART treatment and technique of sperm retrieval, Australia and New Zealand, 2005

Stage/outcome of treatment	Site of sperm extraction				
	Ejaculate	Epididymis ^(a)	Testicular	Other	Not stated
Embryo transfers	35,166	842	1,604	217	1,133
Clinical pregnancies	9,407	243	445	62	293
Live deliveries	7,317	198	347	50	223
<i>Clinical pregnancies per transfer cycle (%)</i>	<i>26.8</i>	<i>28.9</i>	<i>27.7</i>	<i>28.6</i>	<i>25.9</i>
<i>Live deliveries per transfer cycle (%)</i>	<i>20.8</i>	<i>23.5</i>	<i>21.6</i>	<i>23.0</i>	<i>19.7</i>

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

Table W5: Success of embryo transfer cycles by stage/outcome of ART treatment and stage of embryo development, Australia and New Zealand, 2005

Stage/outcome of treatment	Fresh		Thaw		
	Cleavage embryos	Blastocysts	Thawed and transferred cleavage embryos	Thawed cleavage embryos and transferred blastocysts	Thawed and transferred blastocysts
Embryo transfers	17,445	5,220	12,776	738	2,783
Clinical pregnancies	5,078	1,882	2,667	234	589
Live deliveries	4,009	1,500	2,021	183	422
<i>Clinical pregnancies per transfer cycle (%)</i>	<i>29.1</i>	<i>36.1</i>	<i>20.9</i>	<i>31.7</i>	<i>21.2</i>
<i>Live deliveries per transfer cycle (%)</i>	<i>23.0</i>	<i>28.7</i>	<i>15.8</i>	<i>24.8</i>	<i>15.2</i>

Table W6: Success of oocytes/embryos recipient cycles by stage/outcome of treatment and donor's age group, Australia and New Zealand, 2005

Stage/outcome of treatment	Donor's age group (years) ^(a)						Not stated	Total
	≤ 24	25–29	30–34	35–39	≥ 40			
Embryo transfers	87	222	673	553	101	23	1,659	
Clinical pregnancies	17	56	187	131	23	10	424	
Live deliveries	14	44	137	87	19	8	309	
<i>Live deliveries per transfer cycle (%)</i>	<i>16.1</i>	<i>19.8</i>	<i>20.4</i>	<i>15.7</i>	<i>18.8</i>	<i>34.8</i>	<i>18.6</i>	
<i>Live deliveries per clinical pregnancy (%)</i>	<i>82.4</i>	<i>78.6</i>	<i>73.3</i>	<i>66.4</i>	<i>82.6</i>	<i>80.0</i>	<i>72.9</i>	

(a) Age at time of donation.

Table W7: Number of embryo transfer cycles that resulted in a clinical pregnancy of <20 weeks gestation by cause of infertility and pregnancy outcome, Australia and New Zealand, 2005

Cause of infertility	Miscarriage		Fetal reduction or termination		Ectopic/heterotopic pregnancy		Total	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Male factor only	530	92.5	14	2.4	29	5.1	573	100.0
<i>Female factor</i>	<i>585</i>	<i>86.4</i>	<i>27</i>	<i>4.0</i>	<i>65</i>	<i>9.6</i>	<i>677</i>	<i>100.0</i>
Tubal disease only	143	81.3	10	5.7	23	13.1	176	100.0
Endometriosis only	129	86.0	4	2.7	17	11.3	150	100.0
Other female factor only	258	90.8	9	3.2	17	6.0	284	100.0
Combined female factor	55	82.1	4	6.0	8	11.9	67	100.0
Combined male/female factor	343	91.5	10	2.7	22	5.9	375	100.0
Unexplained	331	91.9	5	1.4	24	6.7	360	100.0
Not stated	98	89.9	4	3.7	7	6.4	109	100.0
All causes	1,887	90.1	60	2.9	147	7.0	2,094	100.0

Table W8: Number of embryo transfer cycles that resulted in a delivery by cause of infertility and delivery outcome, Australia and New Zealand, 2005

Cause of infertility	Live birth		Fetal death		Not stated		Total	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Male factor only	2,443	99.1	20	0.8	3	0.1	2,466	100.0
<i>Female factor</i>	<i>2,544</i>	<i>98.9</i>	<i>24</i>	<i>0.9</i>	<i>4</i>	<i>0.2</i>	<i>2,572</i>	<i>100.0</i>
Tubal disease only	635	99.2	3	0.5	2	0.3	640	100.0
Endometriosis only	549	99.1	5	0.9	0	0.0	554	100.0
Other female factor only	1,072	99.1	8	0.7	2	0.2	1,082	100.0
Combined female factor	288	97.3	8	2.7	0	0.0	296	100.0
Combined male/female factor	1,304	99.2	9	0.7	1	0.1	1,314	100.0
Unexplained	1,420	99.0	13	0.9	1	0.1	1,434	100.0
Not stated	424	98.8	5	1.2	0	0.0	429	100.0
All causes	8,135	99.0	71	0.9	9	0.1	8,215	100.0

Table W9: Number of embryo transfer cycles that resulted in a delivery by gestational age and cause of infertility, Australia and New Zealand, 2005

Gestational age (weeks)	Female factor						Un-explained	Not stated	All causes
	Male factor only	Tubal disease only	Endometriosis only	Other female factor only	Combined female factor	Combined male/female factor			
<i>Mean (weeks)</i>	38.0	37.7	37.9	37.7	37.3	37.9	37.8	37.9	37.9
	Number								
20–27	34	16	9	20	12	20	24	5	140
28–31	46	12	9	21	3	23	30	10	154
32–36	315	96	75	158	54	182	210	61	1,151
≥ 37	2,071	516	461	883	227	1,088	1,169	353	6,768
Not stated	0	0	0	0	0	1	1	0	2
Total	2,466	640	554	1,082	296	1,314	1,434	429	8,215
20–36	395	124	93	199	69	225	264	76	1,445
	Per cent								
20–27	1.4	2.5	1.6	1.8	4.1	1.5	1.7	1.2	1.7
28–31	1.9	1.9	1.6	1.9	1.0	1.8	2.1	2.3	1.9
32–36	12.8	15.0	13.5	14.6	18.2	13.9	14.6	14.2	14.0
≥ 37	84.0	80.6	83.2	81.6	76.7	82.8	81.5	82.3	82.4
Not stated	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
20–36	16.0	19.4	16.8	18.4	23.3	17.1	18.4	17.7	17.6

Table W10: Number of embryo transfer cycles that resulted in a clinical pregnancy of < 20 weeks gestation by pregnancy outcome and maternal age group, Australia and New Zealand, 2005

Pregnancy outcome	Age group (years) ^(a)						Total
	≤ 24	25–29	30–34	35–39	40–44	≥ 45	
	Number						
Miscarriage	10	173	515	737	409	43	1,887
Fetal reduction or termination	0	2	19	22	16	1	60
Ectopic or heterotopic pregnancy	2	22	53	58	10	2	147
Total	12	197	587	817	435	46	2,094
	Per cent						
Miscarriage	83.3	87.8	87.7	90.2	94.0	93.5	90.1
Fetal reduction or termination	0.0	1.0	3.2	2.7	3.7	2.2	2.9
Ectopic or heterotopic pregnancy	16.7	11.2	9.0	7.1	2.3	4.3	7.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Age at end of pregnancy

Table W11: Number of embryo transfer cycles that resulted in a delivery by gestation and maternal age group, Australia and New Zealand, 2005

Gestation	Age group (years) ^(a)						Total ^(b)
	≤ 24	25–29	30–34	35–39	40–44	≥ 45	
	Number						
Singleton	55	731	2,585	2,768	821	101	7,061
Twin	11	122	467	417	92	18	1,128
High order multiple	1	5	13	6	1	0	26
Total	67	858	3,065	3,191	914	119	8,215
	Per cent						
Singleton	82.1	85.2	84.3	86.7	89.8	84.9	86.0
Twin	16.4	14.2	15.2	13.1	10.1	15.1	13.7
High order multiple	1.5	0.6	0.4	0.2	0.1	0.0	0.3
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(a) Age at time of delivery.

(b) Includes less than 0.1% of deliveries in which maternal age was unknown.

Table W12: Number of embryo transfer cycles that resulted in a delivery by gestational age and maternal age group, Australia and New Zealand, 2005

Gestational age (weeks)	Age group (years) ^(a)						Total ^(b)
	≤ 24	25–29	30–34	35–39	40–44	≥ 45	
<i>Mean (weeks)</i>	37.0	37.8	37.8	38.0	37.8	37.2	37.9
	Number						
20–27	5	10	50	56	18	1	140
28–31	2	24	66	46	13	3	154
32–36	10	138	439	426	112	26	1,151
≥ 37	50	686	2,510	2,662	771	89	6,768
Not stated	0	0	0	1	0	0	2
Total	67	858	3,065	3,191	914	119	8,215
20–36	17	172	555	528	143	30	1,445
	Per cent						
20–27	7.5	1.2	1.6	1.8	2.0	0.8	1.7
28–31	3.0	2.8	2.2	1.4	1.4	2.5	1.9
32–36	14.9	16.1	14.3	13.4	12.3	21.8	14.0
≥ 37	74.6	80.0	81.9	83.4	84.4	74.8	82.4
Not stated	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
20–36	25.4	20.0	18.1	16.5	15.6	25.2	17.6

(a) Age at time of delivery.

(b) Includes less than 0.1% of deliveries in which maternal age was unknown.

Table W13: Number of embryo transfer cycles that resulted in a delivery by delivery outcome and maternal age group, Australia and New Zealand, 2005

Delivery outcome	Age group (years) ^(a)						Total ^(b)
	≤ 24	25–29	30–34	35–39	40–44	≥ 45	
	Number						
Live birth	65	850	3,041	3,161	899	118	8,135
Fetal death	2	5	21	27	15	1	71
Not stated	0	3	3	3	0	0	9
Total	67	858	3,065	3,191	914	119	8,215
	Per cent						
Live birth	97.0	99.1	99.2	99.1	98.4	99.2	99.0
Fetal death	3.0	0.6	0.7	0.8	1.6	0.8	0.9
Not stated	0.0	0.3	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 delivery.

(b) Includes less than 0.1% of deliveries in which maternal age was unknown.

Table W14: Perinatal mortality of babies by type of death and maternal age group, Australia and New Zealand, 2005

Perinatal deaths ^(a)	Age group (years) ^(b)						Total ^(c)
	≤ 24	25–29	30–34	35–39	40–44	≥ 45	
Fetal death	3	6	29	46	17	1	102
Neonatal death	0	4	15	15	2	0	36
Total	3	10	44	61	19	1	138
<i>Fetal deaths per 1,000 births^(d)</i>	37.5	6.1	8.2	12.7	16.9	7.3	10.9
<i>Neonatal deaths per 1,000 live births^(e)</i>	0.0	4.1	4.3	4.2	2.0	0.0	3.9
<i>Perinatal deaths per 1,000 births^(d)</i>	37.5	10.1	12.4	16.9	18.8	7.3	14.7

(a) Perinatal deaths (neonatal deaths and fetal deaths) are reported by patients to fertility centre staff. These data are not official vital statistics.

(b) Age at time of delivery.

(c) Includes less than 0.1% of babies in which maternal age was unknown.

(d) Fetal deaths and perinatal death rates were calculated using all births (live births and fetal deaths) as the denominator.

(e) Neonatal death rates were calculated using all live births as the denominator.

Table W15: Number of embryo transfer cycles that resulted in a clinical pregnancy of <20 weeks gestation by pregnancy outcome and number of embryos transferred, Australia and New Zealand, 2005

Pregnancy outcome	Number of embryos transferred			All
	1	2	≥ 3	
	Number			
Miscarriage	807	1,033	47	1,887
Fetal reduction or termination	29	30	1	60
Ectopic or heterotopic pregnancy	52	92	3	147
Total	888	1,155	51	2,094
	Per cent			
Miscarriage	90.9	89.4	92.2	90.1
Fetal reduction or termination	3.3	2.6	2.0	2.9
Ectopic or heterotopic pregnancy	5.9	8.0	5.9	7.0
Total	100.0	100.0	100.0	100.0

Table W16: Number of embryo transfer cycles that resulted in a delivery by delivery outcome and number of embryos transferred, Australia and New Zealand, 2005

Delivery outcome	Number of embryos transferred			All
	1	2	≥ 3	
	Number			
Live birth	3,586	4,451	98	8,135
Fetal death	21	50	0	71
Not stated	2	7	0	9
Total	3,609	4,508	98	8,215
	Per cent			
Live birth	99.4	98.7	100.0	99.0
Fetal death	0.6	1.1	0.0	0.9
Not stated	0.1	0.2	0.0	0.1
Total	100.0	100.0	100.0	100.0

Table W17: Number of embryo transfer cycles that resulted in a delivery by gestational age and number of embryos transferred, Australia and New Zealand, 2005

Gestational age (weeks)	Number of embryos transferred			All
	1	2	≥ 3	
<i>Mean (weeks)</i>	38.4	37.5	37.3	37.9
	Number			
20–27	37	102	1	140
28–31	36	116	2	154
32–36	311	819	21	1,151
≥ 37	3,225	3,469	74	6,768
Not stated	0	2	0	2
Total	3,609	4,508	98	8,215
20–36	384	1,037	24	1,445
	Per cent			
20–27	1.0	2.3	1.0	1.7
28–31	1.0	2.6	2.0	1.9
32–36	8.6	18.2	21.4	14.0
≥ 37	89.4	77.0	75.5	82.4
Not stated	0.0	0.0	0.0	0.0
Total	100.0	100.0	100.0	100.0
20–36	10.6	23.0	24.5	17.6

Table W18: Gestational age of babies by birth outcomes, Australia and New Zealand, 2005

Gestational age (weeks)	Live birth	Fetal death ^(a)	Not stated	Total
<i>Mean (weeks)</i>	37.6	25.2	36.2	37.5
		Number		
20–27	129	76	2	207
28–31	242	4	0	246
32–36	1,730	4	0	1,734
≥ 37	7,180	16	8	7,204
Not stated	2	2	0	4
Total	9,283	102	10	9,395
20–36	2,101	84	2	2,187
		Per cent		
20–27	1.4	74.5	20.0	2.2
28–31	2.6	3.9	0.0	2.6
32–36	18.6	3.9	0.0	18.5
≥ 37	77.3	15.7	80.0	76.7
Not stated	0.0	2.0	0.0	0.0
Total	100.0	100.0	100.0	100.0
20–36	22.6	82.4	20.0	23.3

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

Table W19: Birthweight of babies by birth outcomes, Australia and New Zealand, 2005

Birthweight (grams)	Live birth	Fetal death ^(a)	Not stated	Total
<i>Mean (grams)</i>	3,079	1,002	2,735	3,065
	Number			
< 1000	120	46	0	166
1,000–1,499	217	2	0	219
1,500–1,999	428	1	0	429
2,000–2,499	940	0	1	941
2,500–2,999	1,914	3	2	1,919
3,000–3,499	2,821	3	1	2,825
3,500–3,999	2,051	5	0	2,056
≥ 4,000	710	1	0	711
Not stated	82	41	6	129
Total	9,283	102	10	9,395
< 2500	1,705	49	1	1,755
	Per cent			
< 1,000	1.3	45.1	0.0	1.8
1,000–1,499	2.3	2.0	0.0	2.3
1,500–1,999	4.6	1.0	0.0	4.6
2,000–2,499	10.1	0.0	10.0	10.0
2,500–2,999	20.6	2.9	20.0	20.4
3,000–3,499	30.4	2.9	10.0	30.1
3,500–3,999	22.1	4.9	0.0	21.9
≥ 4,000	7.6	1.0	0.0	7.6
Not stated	0.9	40.2	60.0	1.4
Total	100.0	100.0	100.0	100.0
< 2500	18.4	48.0	10.0	18.7

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

Table W20: Number of embryo transfer cycles that resulted in a delivery by gestation, treatment type and procedure, Australia and New Zealand, 2005

Gestation	Autologous			Oocytes/embryos recipient	All
	Fresh IVF	Fresh ICSI	Thaw		
	Number				
Singleton	1,899	2,669	2,236	257	7,061
Twin	357	450	267	54	1,128
Higher order multiple	10	9	7	0	26
Total	2,266	3,128	2,510	311	8,215
	Per cent				
Singleton	83.8	85.3	89.1	82.6	86.0
Twin	15.8	14.4	10.6	17.4	13.7
Higher order multiple	0.4	0.3	0.3	0.0	0.3
Total	100.0	100.0	100.0	100.0	100.0

Table W21: Birthweight of liveborn babies by treatment type and procedure, Australia and New Zealand, 2005

Birthweight (grams)	Autologous			Oocytes/embryos recipient	All
	Fresh IVF	Fresh ICSI	Thaw		
Mean (grams)	3,003	3,020	3,240	2,977	3,079
	Number				
< 1000	51	47	16	6	120
1000–1499	61	98	46	12	217
1500–1999	132	189	91	16	428
2000–2499	306	379	203	52	940
2500–2999	583	776	464	91	1,914
3000–3499	778	1,106	849	88	2,821
3500–3999	519	695	772	65	2,051
≥ 4000	155	225	298	32	710
Not stated	20	36	25	1	82
Total	2,605	3,551	2,764	363	9,283
< 2500	550	713	356	86	1,705
	Per cent				
< 1000	2.0	1.3	0.6	1.7	1.3
1000–1499	2.3	2.8	1.7	3.3	2.3
1500–1999	5.1	5.3	3.3	4.4	4.6
2000–2499	11.7	10.7	7.3	14.3	10.1
2500–2999	22.4	21.9	16.8	25.1	20.6
3000–3499	29.9	31.1	30.7	24.2	30.4
3500–3999	19.9	19.6	27.9	17.9	22.1
≥ 4000	6.0	6.3	10.8	8.8	7.6
Not stated	0.8	1.0	0.9	0.3	0.9
Total	100.0	100.0	100.0	100.0	100.0
< 2500	21.1	20.1	12.9	23.7	18.4

Table W22: Perinatal mortality of babies by type of death and treatment type and procedure, Australia and New Zealand, 2005

Perinatal deaths ^(a)	Autologous			Oocytes/embryos recipient	All
	Fresh IVF	Fresh ICSI	Thaw		
Fetal death	35	43	22	2	102
Neonatal death	13	12	11	0	36
Total	48	55	33	2	138
<i>Fetal deaths per 1,000 births^(b)</i>	13.2	12.0	7.9	5.5	10.9
<i>Neonatal deaths per 1,000 live births^(c)</i>	5.0	3.4	4.0	0.0	3.9
<i>Perinatal deaths per 1,000 births^(b)</i>	18.2	15.3	11.8	5.5	14.7

(a) Perinatal deaths (neonatal deaths and fetal deaths) are reported by patients to fertility centre staff. These data are not official vital statistics.

(b) Fetal deaths and perinatal death rates were calculated using all births (live births and fetal deaths) as the denominator.

(c) Neonatal death rates were calculated using all live births as the denominator.