: 1997

Current Status of
Assisted Reproductive Technology
in Korea, 1997

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Fig. 1. Location of certified ART clinics in Korea, 1999

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Name of IVF centre()		
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from those treatment cycl some items, write NA.	es. Please complete as Sestational age (duration of	many data items as portion of pregnancy) should be	r year, 1997, and to any clinical pregnancies resulting ossible (n = number). If data are not available for calculated by adding 14 days (2 weeks) to the number ne date of completion of the pregnancy
In the following tables	::		
laboratory and fresh		to the uterus or fallop	tilization occurred, or was intended to occur, in the pian tubes. This heading excludes : (1) frozen/thaweo
	treatment cycles and preg rcles after both ICSI and		ansfer of fresh embryos after intracytoplasmic sperm recorded separatedly.
· · · · · · · · · · · · · · · · · · ·		_	(oocytes and sperm) were transferred to the fallopian should be recorded in IVF category).
	n frozen/thawed embryos er of thawed embryos sh		ld be excluded from Tables, 1, 2 and 3. Pregnancy n Tables 4, 5, 8 and 9.
. Oocyte donation cycl embryos were transfe		d be included in Tables	es 3, 4, 5, 8 and 9, and in Table 10 if frozen/thawer
. Maternal age refers t	to age at the start of the	treatment cycle.	
If you did not perform	n IVF practice in 1997, o	check here.	□ Not done
If you performed IVF	practice in 1997, please	fill out tables below.	

Table 1. Treatment cycles and pregnancies, 1997

Treatment cycles/pregnancies*	IVF	ICSI	GIFT
Treatment cycles pregnancies	IVF	ICSI	GIFT
	n	n	n
Cycles initiated (started)			
Cycles with attempted oocyte retrieval (aspiration)			
Cycles with embryo transfer			
Clinical pregnancies			
Pregnancies with one or more live births			

products of conception from curettage. Biochemical pregnancies in which there are only elevated levels of -hCG should

This table excludes cycles in which frozen/thawed embryos were transferred.

not be counted.

^{*} The number of cycles started should include both stimulated and natural cycles.

Clinical pregnancies include those with clinical signs of pregnancy, sonographic visualization of a gestational sac, or

Table 2. Number of oocyte retrieval cycles and clinical pregnancies by maternal age, cause of infertility, and type of ovulation induction, 1997

Characteristics	IVF		ICSI		GIFT	
	Oocyte retrieval cycles attempted	Clinical Pregnancies	Occyte retrieval cycles attempted	Clinical pregnancies	Oocyte retrieval cycles attempted	Clinical pregnancies
_	n	n	n	n	n	n
Maternal age at start of treatment . less than 25 years						
. 25 - 29						
. 30 - 34						
. 35 - 39						
. 40 and over						
Cause(s) of infertility . tubal only						
. other female only						
. male factors only						
. multiple causes						
. unexplained						
Ovulation induction . GnRH analogues+other	·					
. No GnRH analogues . clomiphene + any o	ther					
. other drugs						
. natural cycles						

This table excludes cycles using frozen/thawed embryos or microinsemination.

^{*} The groups in the sections on cause of infertility and ovulation induction are mutually exclusive so each treatment cycle or pregnancy should be included in only one group.

Table 3. Embryos or oocytes transferred, 1997

Number of embryos/ oocytes transferred	IV	/F	IC	SI	GIF	Т
	Transfer cycles	Clinical Pregnancies	Transfer cycles	Clinical pregnancies	Transfer cycles	Clinical pregnancies
. One . Two	n	n	n	n	n	n
. Three						
. Four						
. Five						
. Six or more						

This table excludes cycles in which frozen/thawed embryos were transferred and also those cycles for other types of microinsemination (eg SUZI)

Table 4. Outcome of clinical pregnancies, 1997

Outcome of clinical pregnancies*	IVF	ICSI	GIFT
	n	n	n
Spontaneous abortion (less than 20 completed weeks' gestation)			
Ectopic pregnancy			
Induced abortion (less than 20 completed weeks' gestation)			
Stillbirth: 20-27 weeks			
Stillbirth: 28 or more weeks			
Live birth			
Total			

^{*} Include each multiple pregnancy of 20 or more weeks' gestation only once in the table. If both live births and stillbirths occur in the same pregnancy, include it in the figures for live birth. For combined intrauterine and extrauterine pregnancies, count as ectopic pregnancy if intrauterine pregnancy terminates at less than 20 weeks and as stillbirth or live birth if pregnancy is completed at 20 or more weeks. The total number of pregnancies should be the same as in Table 1.

This table excludes pregnancies resulting from transfer of thawed embryos or other microinsemination techniques.

Table 5. Live births, stillbirths, and early neonatal deaths* by plurality, 1997

Plurality/Births		IVF	ICSIGIFT
	n	n	n
Singletons			
· live births			
· stillbirths: 20-27 weeks` gestation			
· stillbirths: 28 weeks` or more			
· early neonatal deaths			
Twins			
· live births			
· stillbirths: 20-27 weeks` gestation			
· stillbirths: 28 weeks` or more			
· early neonatal deaths			<u> </u>
Triplets			
· live births			
· stillbirths: 20-27 weeks` gestation			
· stillbirths: 28 weeks` or more			_
· early neonatal deaths			
Quadruplets and higher order multiple births live births			
· stillbirths: 20-27 weeks` gestation			
· stillbirths: 28 weeks` or more			
· early neonatal deaths			_
		·	

This table excludes pregnancies resulting from transfer of thawed embryos or from other microinsemination techniques.

In this table, n=number of babies, not the number of pregnancies.

^{*} Early neonatal deaths are liveborn infants dying in the first 7 days. They should be included in the numbers both of live births and of early neonatal deaths.

Table 6. Oocyte retrieval cycles, transfer cycles and pregnancies using special techniques of sperm collection and/or assisted hatching, 1997

Selected techniques	Oocyte retrieval cycles attempted	Transfer cycles	Clinical pregnancies	Pregnancies with live births
	n	n	n	n
. Microepididymal sperm aspiration (MESA)				
. Testicular sperm extraction (TESE)				
Other and unspecified techniques				
. Assisted hatching				

Table 7. Transfer cycles and pregnancies after oocyte donation, 1997

Outcome of clinical pregnancies*	IVF	ICSI	GIFT
	n	n	n
Oocyte donation: IVF (without embryo freezing)			
Oocyte donation and frozen/thawed embryos: IVF			
Oocyte donation: GIFT			
Donor embryos			

This table excludes pregnancies resulting from transfer of thawed embryos or other microinsemination techniques.

Table 8. Gestational age of pregnancies* of 20 or more weeks by plurality, 1997

Gestational age (Completed weeks)	Singletons	Twins	Triplets	Quadruplets or more
	n	n	n	n
IVF : 20 - 27				
28 - 31				
32 - 36				
37 - 41				
42 or more				
Not known				
Total				
ICSI : 20 - 27				
28 - 31				
32 - 36				
37 - 41				
42 or more				
Not known				
Total				
GIFT: 20 - 27				
28 - 31				
32 - 36		- -	· ·	
37 - 41				
42 or more				
Not known				
Total				

This table excludes pregnancies resulting from transfer of thawed embryos or from other microinsemination techniques(eg SUZI).

^{*} Count each pregnancy only once for multiple births: include those pregnancies resulting both in live births and stillbirths. If the births in a multiple pregnancy occur in different gestational age groups, include that pregnancy in the shortest gestational age group.

Table 9. Birth weight of liveborn and stillborn infants of 20 or more weeks' gestation, 1997

Birth weight*	Singletons	Twins	Triplets	Quadruplets or more
	n	n	n	n
IVF				
Less than 2500g				
2500g or more				-
Birth weight not stated				
Total				
ICSI				
Less than 2500g				
2500g or more				
Birth weight not stated				
Total				
GIFT				
Less than 2500g				
2500g or more				
				-
Birth weight not stated	=			

This table excludes pregnancies resulting from transfer of thawed embryos or from other microinsemination techniques (eg. SUZI).

^{*} Include both live births and stillbirths of 20 or more weeks' gestation. In this table, n = number of babies, not the number of pregnancies.

Table 10. Pregnancy outcome after transfer of frozen/thawed embryos (including all techniques of oocyte retrieval but excluding ICSI), 1997

R.51j, 1577				
Cycles and outcome of clinical pregnancies*				Number
Transfer cycles				
Clinical pregnancies				
Spontaneous abortion (less than 20 completed weeks' gestation)				
Ectopic pregnancy				
Induced abortion (less than 20 completed weeks' gestation)				
Pregnancies of 20 weeks '	Singletons	Twins	Triplets	Quadruplets or more
	n	n	n	n
Gestational age (pregnancies) . 20 - 27 weeks (p)				
. 28 - 31 weeks (p)				
. 32 - 36 weeks (p)				
. 37 - 41 weeks (p)				
. 42 weeks or more (p)				
. Not known (p)				
Live births (n)				
Stillbirth: 20-27 weeks (n)				
Stillbirth: 28 or more weeks (n)				
Early neonatal deaths (n)				
Birth weight (babies) . Less than 2500g (n)				
. 2500g or more (n)				
. Not known (n)				
	<u> </u>			

^{*} For live births, stillbirths, early neonatal deaths and birth weight, the numbers of births (n), not pregnancies should be given. For gestational age, the number of pregnancies (p), not births, should be given. For combined intrauterine and extrauterine pregnancies, count as ectopic pregnancy if intrauterine pregnancy terminates at less than 20 weeks and as stillbirth or live birth if pregnancy is completed at 20 or more weeks.

Table 11. Pregnancy outcome after combined ICSI and transfer of frozen/thawed embryos, 1997

Cycles and outcome of clinical pregnancies*				Number
Transfer cycles				
Clinical pregnancies				
Spontaneous abortion (less than 20 completed weeks' gestation)				
Ectopic pregnancy				
induced abortion (less than 20 completed weeks' gestation)				
Pregnancies of 20 weeks '	Singletons	Twins	Triplets	Quadruplets or more
	n	n	n	n
Live births				
Stillbirth: 20-27 weeks				
Stillbirth: 28 or more weeks				
Early neonatal deaths				
Gestational age (pregnancies) . 20 - 27 weeks				
. 28 - 31 weeks				
. 32 - 36 weeks				
. 37 - 41 weeks				
. 42 weeks or more				
. Not known				
pirth weight (babies) Less than 2500g				
2500g or more				
Not known				

^{*} For live births, stillbirths, early neonatal deaths and birth weight, the numbers of births (n), not pregnancies should be given. For gestational age, the number of pregnancies (p), not births, should be given. For combined intrauterine and extrauterine pregnancies, count as ectopic pregnancy if intrauterine pregnancy terminates at less than 20 weeks and as stillbirth or live birth if pregnancy is completed at 20 or more weeks.

Table 12. Embryo freezing, 1997

Have you ever performed embryo freezing in 1997	Yes	No
Number of oocyte pick-up(OPU) cycles that resulted in embryo freezing in 1997		
Number of embryos that were frozen in 1997		
Total number of embryos in frozen storage at 31 December 1997		

Table 13. Major congenital malformations and chromosomal abnormalities, 1997

Technique of assisted conception	Total number of births and induced abortions	Number of malformed fetuses and infants*
IVF: fresh embryos		
IVF: frozen embryos		
ICSI: fresh embryos		
ICSI: frozen embryos		
Other microinsemination techniques		
Assisted hatching		
Oocyte donation		
		

^{*} Do not include minor birthmarks of the skin, postural talipes, or clicky hips.

IVF-ET ICSI . (zygote

intrafallopian transfer: ZIFT) . ,

Table 1. Number of IVF centers according to size (total number of treatment cycles in the year)

Number of treatment cycles started in year*	Number of IVF centers
Less than 50	21
50-99	13
100-199	4
200-499	4
500-999	3
1,000 or more	3
Total number of IVF centers	92
Number of IVF centers providing data for this report	48

^{*} The total number of treatment cycles is based on all IVF, GIFT, and microinsemination cycles started and those cycles in which there was transfer of frozen/thawed embryos

Table 2. Treatment cycles and pregnancies according to type of ART procedures

Treatment cycles / pregnancies	IVF	ICSI	GIFT
Cycles initiated(started)	10416	4158	181
Cycles with oocyte retrieval	9928	4073	176
Cycles with embryo transfer	9493	39 10	174
Clinical pregnancies	2898	1116	79
(CP per transfer, %)	(27.8)	(26.8)	(43.7)
Pregnancies with one or more live births	2 125	794	49
(LB per transfer, %)	(20.6)	(19.1)	(27.1)

This table excludes cycles in which frozen/thawed embryos were transferred

ART: assisted reproductive technology

CP: clinical pregnancies LB: live births

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. : 1997 1997 48 16,622 (Table 1,2). 1996 35 8,694 フト フト 35 48 フト

, 16,622 IVF-ET(ICSI) 10,416 (62.7%), ICSI 4,158 (25.0%) IVF-ET ICSI 14,574 (87.7%) IVF-ET

intrafallopian transfer: GIFT) 181 (1.1%) cryopreserved embryo transfer: cryopreserved ET) 1,531 (9.2%) 7 \dagger

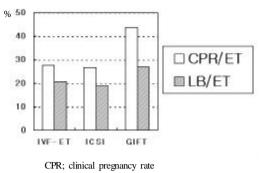
(Fig. 2).
(microsurgical epididymasl sperm aspiration: MESA)
(testicular sperm extraction: TESE)

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(assisted hatching) 2,379 . (oocyte donation) 336 7 .

IVF 27.8%, ICSI 26.8%, GIFT

Fig. 2. Types of ART procedures



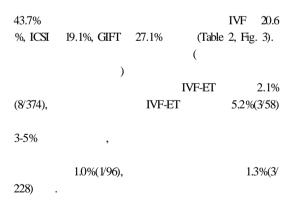
CPR; clinical pregnancy rat ET; embryo transfer LB; live birth

Fig. 3. Success rates for different types of ART

Table 3. Major congenital malformations and chromosomal abnormalities

Technique of assisted	Total number of births and induced	Number of
conception	abortions	and infants*(%)
IVF: fresh embryos	374	8(2.1)
IVF: frozen embryos	58	3(5.2)
ICSI: fresh embryos	154	0
ICSI: frozen embryos	96	1(1.0)
Other microinsemination	22	0
techniques		
Assisted hatching	228	3(1.3)
Oocyte donation	20	0

^{*} Do not include minor birthmarks of the skin, postural talipes, or clicky hips



(Table 3), 가 가

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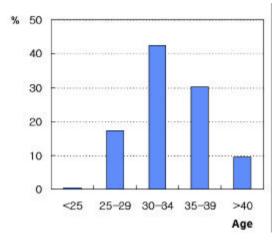


Fig. 4. Percentage of ART users, by ages

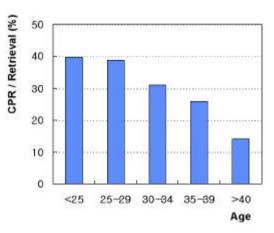


Fig. 5. Clinical pregnancy rates per oocyte retrieval by age of woman

25 0.5%, 25-29 가 17.3%, 30-34 42.4%, 30-39 가 35-39 30.3%, 40 9.5% 72.7% (Table 4, 25 Fig. 4). 39.7 %, 25-29 가 38.7%, 30-34 31.0%, 35-39 25.9%, 40 14.1% 가 (Fig. 5).

2)

Table 4. Number of oocyte retrieval cycles and clinical pregnancies by maternal age

Maternal age at start of treatment	IVI	IVF		ICSI		GIFT	
	OR cycles	СР	OR cycles	СР	OR cycles	СР	
Less than 25 years	41	15	27	12	0	0	
25 - 29	1556	601	798	304	66	33	
30 - 34	4232	1358	1610	440	104	45	
35 - 39	2981	802	1235	287	39	14	
40 and over	933	124	397	62	7	2	

This table excludes cycles in which frozen/thawed embryos were transferred

Table 5. Number of oocyte retrieval cycles and clinical pregnancies by cause of infertility

Course of infantility	IVF	7	ICS	ICSI GIFT		Т
Cause of infertility	OR cycles	CP	OR cycles	СР	OR cycles	CP
Tubal only	4805	1456	314	60	8	3
Other female only	1688	487	910	305	57	25
Male factor only	480	111	1602	471	12	5
Multiple causes	898	194	632	116	57	24
Unexplained	1814	583	551	146	79	37

This table excludes cycles in which frozen/thawed embryos were transferred

OR: oocyte retrieval

CP: clinical pregnancies

Table 6. Number of oocyte retrieval cycles and clinical pregnancies by type of ovulation induction

Ovulation induction	IVI	.	ICS	ICSI GIFT		Т
Ovulation induction	OR cycles	СР	OR cycles	СР	OR cycles	СР
GnRH analogues + other No GnRH analogues	9173	2696	2688	728	215	95
Clomiphene+any other	156	23	77	10	1	0
Other drugs	543	145	243	60	0	0
Natural cycles	96	5	64	5	0	0

This table excludes cycles in which frozen/thawed embryos were transferred

OR: oocyte retrieval

CP: clinical pregnancies

Table 7. Number of transfer cycles and clinical pregnancies by number of embryos/oocyte transferred

Number of	IVF		ICSI		GIFT	
embryos/oocytes transferred	transfer cycles	СР	transfer cycles	СР	transfer cycles	СР
One	7 17	61	387	29	4	1
Two	1468	488	526	72	9	2
Three	2188	808	653	188	22	11
Four	2748	709	1136	384	29	12
Five	1449	481	665	239	34	17
Six or more	998	366	546	193	115	52

This table excludes cycles in which frozen/thawed embryos were transferred

CP: clinical pregnancies

Fig. 6. Primary diagnoses for ART procedures

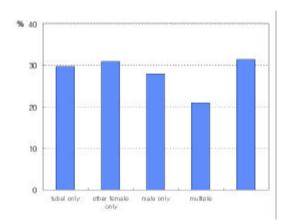


Fig. 7. Clinical pregnancy rates per oocyte retrieval by cause of infertility

3) GnRH agonist(GnRHa) (製剤) フト 91.1% GnRHaアト , clomiphene フト 1.8%, フト 1.2% 5.9%アト (Table 6). GnRHa フト

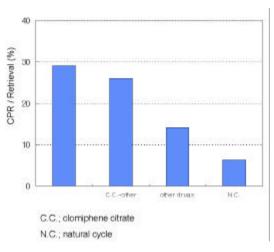


Fig. 8. Clinical pregnancy rates per oocyte retrieval by type of ovulation induction

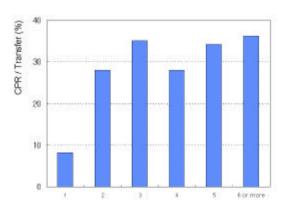


Fig. 9. Clinical pregnancy rates per transfer by number of embryos/oocytes transferred

Table 8. Outcome of clinical pregnancies

Outcome of clinical pregnancies	IVF	ICSI	GIFT
Spontaneous abortion	451	179	11
Ectopic pregnancy	93	16	3
Induced abortion	10	0	2
Stillbirth:20-27wks	73	23	1
Stillbirth:28wks or more	11	4	0
Live birth	2158	804	63

This table excludes cycles in which frozen/thawed embryos were transferred

Table 9. Live births, stillbirths, and early neonatal deaths* by plurality

	Singletons	Twins	Triplets	Quadruplets or more
IVF				
Live births	1487	759	88	4
Stillbirths:20-27wks	42	29	5	0
Stillbirths:28wks or more	13	7	0	0
Early neonatal deaths	25	1	1	0
ICSI				
Live births	535	378	35	7
Stillbirths:20-27wks	7	20	0	0
Stillbirths:28wks or more	3	2	0	0
Early neonatal deaths	5	0	0	0
GIFT				
Live births	47	34	0	0
Stillbirths:20-27wks	0	1	0	0
Stillbirths:28wks or more	0	0	0	0
Early neonatal deaths	1	0	0	0

^{*} Early neonatal deaths are liveborn infants dying in the first 7 days. They should be included in the numbers both of live births and of early neonatal deaths.

Table 10. Gestational age of pregnancies of 20 or more weeks by plurality

Gestational age (completed weeks)	Singletons	Twins	Triplets	Quadruplets or more
IVF				
20-27	17	13	4	0
28-31	24	22	5	1
32-36	66	75	10	1
37-41	404	139	18	2
42 or more	9	5	2	0
Not known	83	37	2	0
Total	603	291	41	4
ICSI				
20-27	4	10	1	1
28-31	2	1	1	0
32-36	31	47	5	3
37-41	286	74	8	1
42 or more	2	3	0	0
Not known	62	34	3	0
Total	387	169	18	5
GIFT				
20-27	0	1	0	0
28-31	1	0	0	0
32-36	4	7	0	0
37-41	26	6	0	0
42 or more	0	0	0	0
Not known	12	4	0	0
Total	43	18	0	0

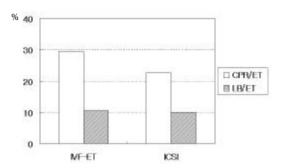


Fig. 10. Outcomes of clinical pregnancies resulting from ART

CPR; clinical pregnancy rate

ET; embryo transfer

LB; live birth

Fig. 12. Success rates of ART with frozen embryos and fresh embryos

Fig. 11. Pluralities among live births

7) (special techniques of sperm collection and/or assisted hatching)

5) 77.5% 가 , 16.4%가 20 , 2.9%フト , 0.3%가 2.9%가 (Table 8, Fig. 10). 6) (live birth) 61.3%가 34.7%, 3.6%, 0.3% 38.6% 가 0.4-5.4% (Fig. 11). 20 20 95.6%, 95.1%, 95.3가 (Table 9). 37 70.4%,

47.4%

36.8%,

47.5%

14.4%,

(Table 10).

. 37

2,500gm

44.1%

(MESA) 가 94, (TESE) 가 471 MESA 47.0%, TESE 36.6% MESA 17.1%, TESE 23.9% 2,378 26.6%, 21.8% (Table 12).

(oocyte donation) 336 가 219 116 39.3%, 36.2% 32.0%, 31.0% (Table 13).

3. (transfer of cryopreserved embryo) 1,601 1997 , 1997 3,284 . 1997 14,178 1997 12 31 25 6,744

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Table 11. Birthweight of livebom and stillborn infants of 20 or more weeks' gestation

Birthweight	Singletons	Twins	Triplets	Quadruplets or more
IVF				
Less than 2500g	35	148	17	9
2500g or more	488	283	32	104
Birthweight not stated	50	36	4	14
Total	573	467	53	127
ICSI				
Less than 2500g	66	66	9	4
2500g or more	249	108	15	4
Birthweight not stated	56	27	6	1
Total	37 1	201	30	9
GIFT				
Less than 2500g	4	15	0	0
2500g or more	43	19	0	0
Birthweight not stated	0	0	0	0
Total	47	34	0	0

Table 12. Outcomes of special techniques of sperm collection and assisted hatching

	MESA	TESE	Assisted hatching	Other and unspecified techniques
Cycles with oocyte retrieval	94	471	2379	211
Cycles with embryo transfer	181	539	2339	232
Clinical pregnancies	85	197	622	80
(CPR per transfer, %)	(47.0)	(36.6)	(26.6)	(34.5)
Pregnancies with live births	31	129	509	62
(LB per transfer, %)	(17.1)	(23.9)	(21.8)	(26.7)

MESA: microsurgical epididymal sperm aspiration

TESE: testicular sperm extraction

Table 13. Transfer cycles and pregnancies after oocyte donation

	OD : IVF without freezing	OD: IVF with frozen/thawed embryos	OD : GIFT	Donor embryos
Transfer cycles	219	116	1	0
Clinical pregnancies	86	42	1	0
(CPR per transfer, %)	(39.3)	(36.2)	(100.0)	
Pregnancies with live births	70	36	1	0
(LB per transfer, %)	(32.0)	(31.0)	(100.0)	

OD: oocyte donation

Table 14. Outcomes of transfer of frozen/thawed embryos

	Combined ICSI	All techniques of OR excluding ICSI
Transfer cycles	297	1304
Clinical pregnancies	67	384
(CPR per transfer, %)	(22.6)	(29.5)
Outcome of clinical pregnancies		
Spontaneous abortion	10	49
Ectopic pregnancy	0	11
Induced abortion	1	2
Stillbirth:20-27weeks	0	3
Stillbirth:28 or more weeks	0	0
Early neonatal deaths	0	0
Live birth(LB per transfer, %)	28(10.1)	138(10.6)

Table 15. Live births, stillbirths, and early neonatal deaths by plurality after transfer of frozen/thawed embryos

	Singletons	Twins	Triplets	Quadruplets or more
Combined ICSI				
Live births	20	8	0	0
Stillbirths:20-27wks	0	0	0	0
Stillbirths:28wks or more	0	0	0	0
Early neonatal deaths	0	0	0	0
All techniques of oocyte retrieval exc	cluding ICSI			
Live births	83	39	14	2
Stillbirths:20-27wks	1	1	1	0
Stillbirths:28wks or more	0	0	0	0
Early neonatal deaths	0	0	0	0

LB: live births

Table 16. Gestational age of pregnancies of 20 or more weeks by plurality after transfer of frozen/thawed embryos

Gestational age(completed weeks)	Singletons	Twins	Triplets	Quadruplets or more
Combined ICSI				
20-27	0	0	0	0
28-31	0	0	0	0
32-36	1	2	0	0
37-41	16	2	0	0
42 or more	0	0	0	0
Not known	3	0	0	0
Total	20	4	0	0
All techniques of oocyte retrieval exclud	ling ICSI			
20-27	1	1	7	0
28-31	1	1	0	0
32-36	7	8	3	0
37-41	59	15	6	1
42 or more	1	0	0	0
Not known	5	2	0	0
Total	74	27	16	1

Table 17. Birthweight of liveborn & stillborn infants of 20 or more weeks' gestation after transfer of frozen/thawed embryos

Birthweight	Singletons	Twins	Triplets	Quadruplets or more
Combined ICSI				
less than 2500g	1	4	0	0
2500g or more	4	8	0	0
birthweight not stated	5	0	0	0
total	20	12	0	0
All techniques of oocyte retrieval of	excluding ICSI			
less than 2500g	10	13	7	0
2500g or more	60	16	7	2
birthweight not stated	11	10	0	0
total	81	39	14	2

 1,601
 ICSI
 10.6%
 (Fig. 12).

 297
 ICSI
 Table 14, 15, 16, 17

 1,304
 .

 22.6%
 29.5%
 10.1%