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Annual 2009 – German IVF-Registry e. V.

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■ Preface

Presenting data of the year 2009, the German IVF Registry (Deutsches IVF Register, D-I-R.) has already started to publish the annual report in this journal. Since 1996 the structure of this report has combined standard analysis and special charts focusing on new aspects. This year we have included a statistic concerning the so-called „ideal patient“ and the pregnancy rates for each center.

In Germany advertising is not allowed in the medical field. Therefore all data must be published anonymously.

In 2009 the number of centers increased from 119 to 121. The amount of so-called fresh IVF and ICSI cycles also increased by 7% compared to 2008 – including cycles in which IVF and ICSI was performed simultaneously.

This is a positive development after the tremendous decrease in 2004 caused by a dramatic change in the public health reimbursement system.

In 1997, so-called prospective measures were introduced to the dataset. Using one of the three different software tools currently available, the treatment cycle must be recorded within 7 days of controlled ovarian stimulation. This feature is intended to prevent cycle selection and is one of the most powerful quality tools

implemented by the German system. In 2009 84.3% of all IVF and ICSI cycles fit this criterion.

A dynamic link library (DLL) maintained by the registry allows data plausibility to be monitored either online or shortly after data input. In 2009 97.24% of all cycles fit this criterion.

The average pregnancy rate for all 11,715 IVF cycles was 29.5%, compared with a rate of 28.6% for the 9,830 ICSI cycles. A simultaneous treatment of IVF and ICSI (IVF/ICSI) in one cycle was performed in 254 cases, while so-called cryopreserved embryo transfer (CPE, embryos derived from cryo-preserved oocytes in the 2-PN-stage) was performed in 17,116 cases. Here, the pregnancy rate was recorded as being 18.9%.

Because of German legal restrictions, oocytes were only allowed to be frozen in the pronuclear stage. No embryo selection is permitted. The Embryo Protection Act, passed in 1991, permits no more than three embryos to be transferred.

A higher rate of multiple births (twins, triplets or more) was documented for a maximum of 7.8% of all pregnancies. The number of lost for follow-up will be 40.6% due to the early deadline for data export to D-I-R this year. This number

will be updated and republished as part of the next annual report.

Since the registry requests that data for both the current year as well as for past years be sent, this figure generally will drop to less than 15 % the following year.

In order to provide additional information about pregnancy outcomes, the national registry of assisted reproductive treatments expends a great deal of effort in following up on induced pregnancies. As in other European nations, numerous foreign couples are also treated in Germany, making it rather difficult to obtain information related to the outcome of these pregnancies.

For the first time, this publication provides an English version of an annual report. In the past, some papers have already provided details regarding certain special aspects. The huge dataset which is expected to reach one million in 2010 also allows us to research specific aspects such as lifestyle factors (smoking, weight) or reproductive history (former pregnancies, miscarriages etc.).

From our perspective, the greatest advance of the German IVF Registry lies in the decision of nearly every IVF unit to support its work through a prospective data collection and through payments made to maintain the Registry files.

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Outcome of ART 2009

centres for IVF-, ICSI-, GIFT- und cryo-transfer treatments

Participating IVF centres	n = 121
Data received until deadline (19.08.2010)	n = 121
Documented treatment cycles	n = 75,662 (100.00 %)
Plausibel	n = 73,579 (97.24 %)
Prospective (all cycles)	n = 61,748 (83.92 %)
Prospective (IVF, ICSI, IVF/ICSI)	n = 41,924 (84.52 %)
Number of treated women*	n = 46,281
Treatment cycles per women (mean)	1.63

*) Base quantity: all women with specified age; implausible treatment cycles are counted also.

Number of IVF centres 1982 - 2009

for IVF-, ICSI-, GIFT- and cryo-transfer treatments

	1982	1986	1990	1994	1996	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
IVF	5	28	53	66	66	86	92	100	107	112	114	118	117	120	118	117	119
ICSI	0	0	0	32	59	85	92	98	108	112	116	120	117	120	118	120	119
Cryo	0	0	0	19	35	63	75	77	95	97	101	112	109	109	112	112	117
GIFT	0	14	36	23	14	4	8	7	5	6	8	2	1	0	1	1	1
Total*					71	86	92	102	108	112	116	120	117	121	118	120	121

*) for the years before 1997 (implementation of electronic data processing in D.I.R.) no data is available

Number of treatment cycles 1982 - 2009 (plausible cycles)

IVF, ICSI, IVF/ICSI, GIFT, cryo-transfer

	1982	1986	1990	1994	1996	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
IVF	742	3,806	7,343	16,175	14,494	16,763	21,880	28,945	28,506	23,936	28,058	11,848	11,098	11,082	11,362	11,264	11,715
ICSI				5,856	16,233	23,578	21,244	15,752	24,897	37,692	51,389	25,339	25,532	28,015	31,452	34,333	37,006
IVF/ICS						424	962	790	695	678	987	446	590	672	798	834	881
Cryo				499	2,660	4,616	7,661	9,457	12,195	14,923	14,265	16,883	14,471	14,926	16,566	17,646	17,912
GIFT		380	985	829	420	11	41	25	19	13	22	4	2	0	1	0	2
none *						67	6,600	6,562	7,507	9,802	11,133	4,928	4,539	4,600	5,137	5,825	6,063
Total	742	4,201	8,653	23,684	33,993	45,459	58,388	61,531	73,819	87,044	105,854	59,448	56,232	59,295	65,316	69,902	73,579

Since 1999 all started treatment cycles are documented.

*) no treatment: aborted treatments before oocyte culture

Number of treatment cycles 2009 (prospective cycles)

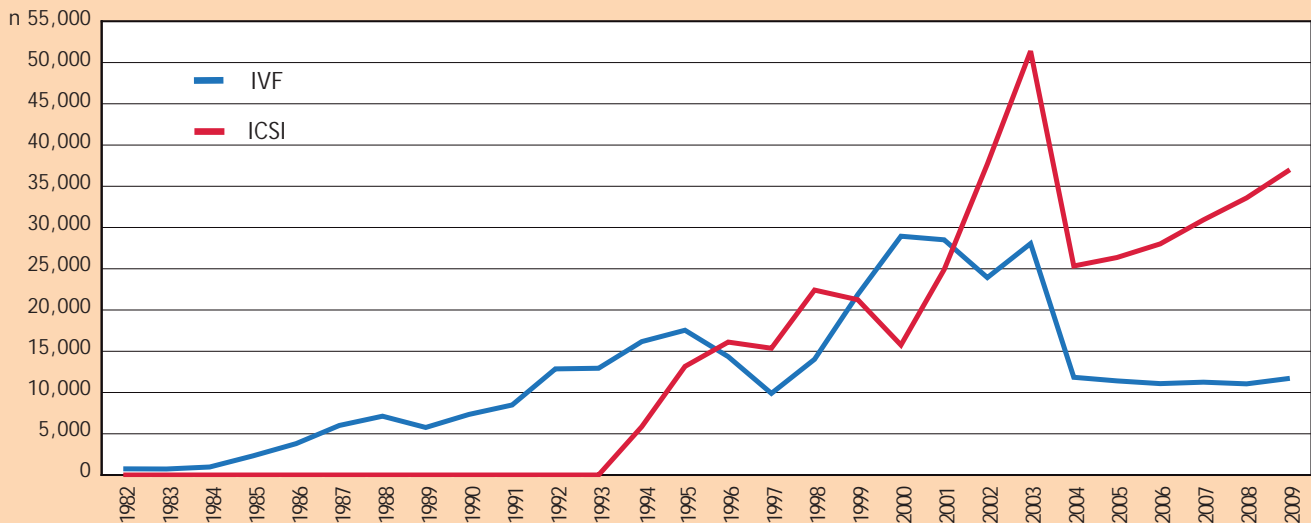
IVF, ICSI, IVF/ICSI, cryo-transfer

	IVF	ICSI	IVF/ICSI	cryo-transfer	no treatment	Summe
Anzahl	9,882	31,289	753	14,476	5,346	61,748*
in %	16.00	50.67	1.22	23.44	8.66	100.00

*) two prospective GIFT-treatments are enclosed

Number of cycles with ovum pick up (OPU) 2009

IVF, ICSI



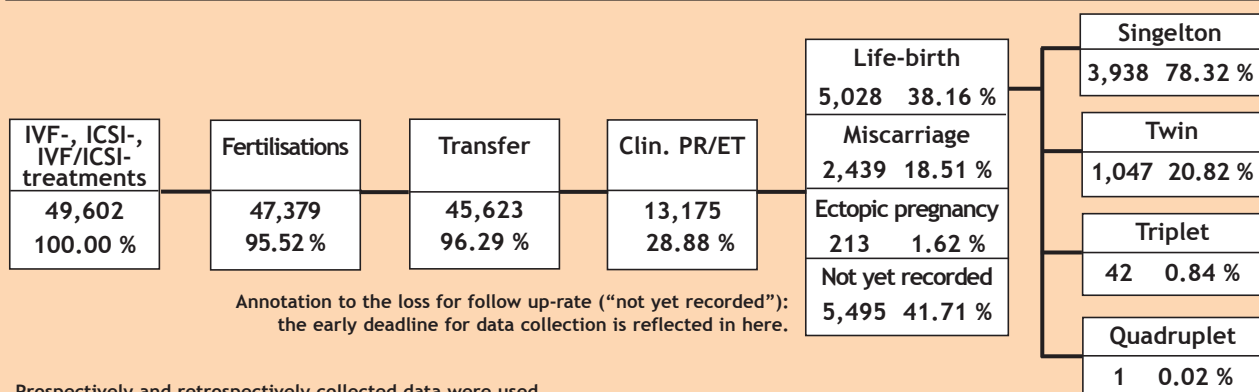
	1982	1986	1990	1994	1996	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
IVF	742	3,806	7,343	16,175	14,344	14,024	21,880	28,945	28,506	23,936	28,058	11,848	11,410	11,082	11,362	11,048	11,715
ICSI				5,856	16,108	22,420	21,244	15,752	24,897	37,692	51,389	25,339	26,370	28,015	31,452	33,591	37,006
Total*	742	3,806	7,343	22,031	30,452	37,933	44,086	45,487	54,098	62,306	80,434	37,633	38,382	39,769	43,612	45,461	49,602

*) the value for IVF/ICSI is enclosed in "total", for instance in 2009: 881 OPU.

Prospectively and retrospectively collected data were used.

Statistics in short 2009 for IVF, ICSI and IVF/ICSI

German IVF Registry, status: 19.08.2010

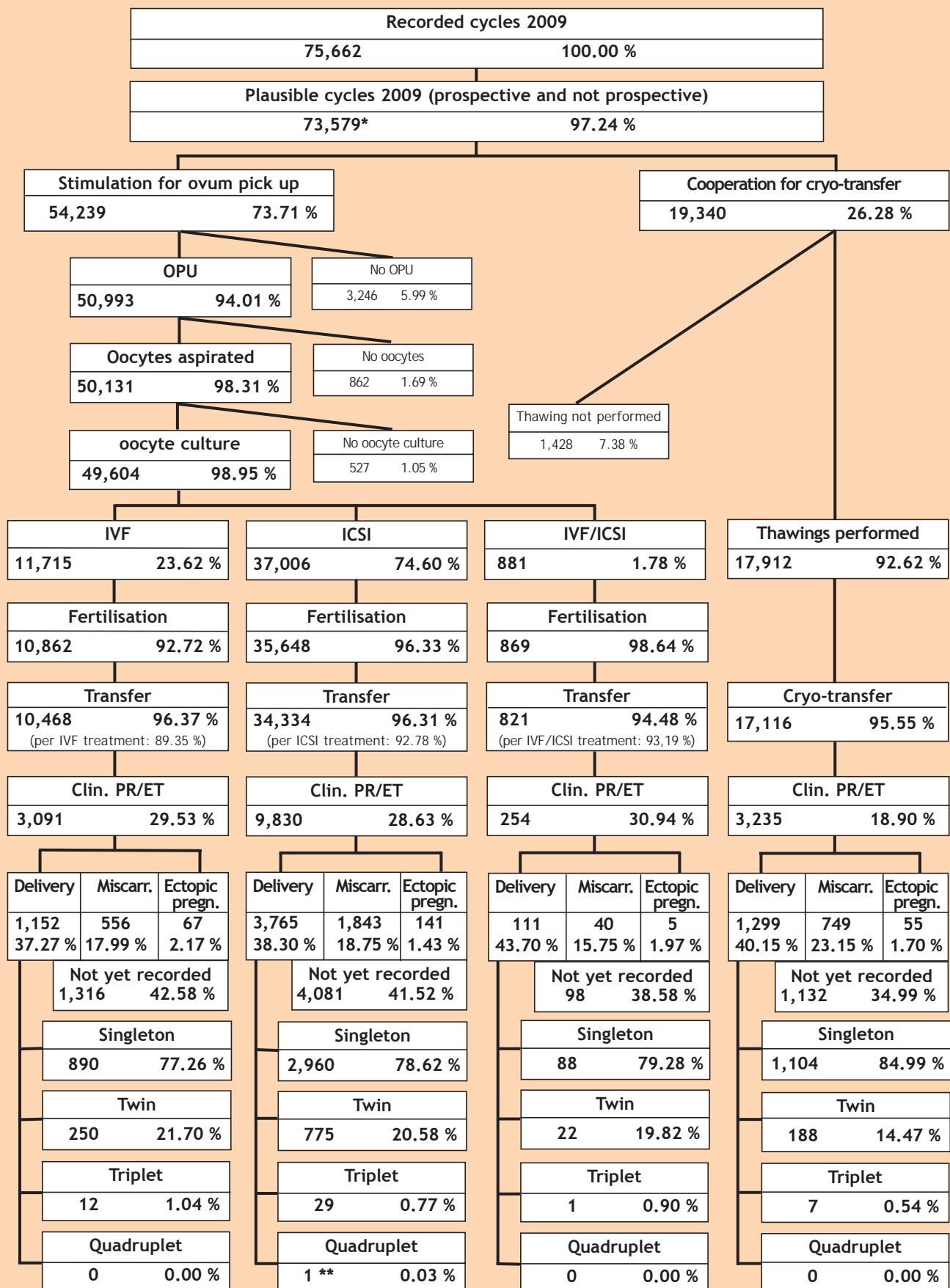


Prospectively and retrospectively collected data were used.

D.I.R. statistics in short 2009

German IVF Registry

status: 19.08.2010



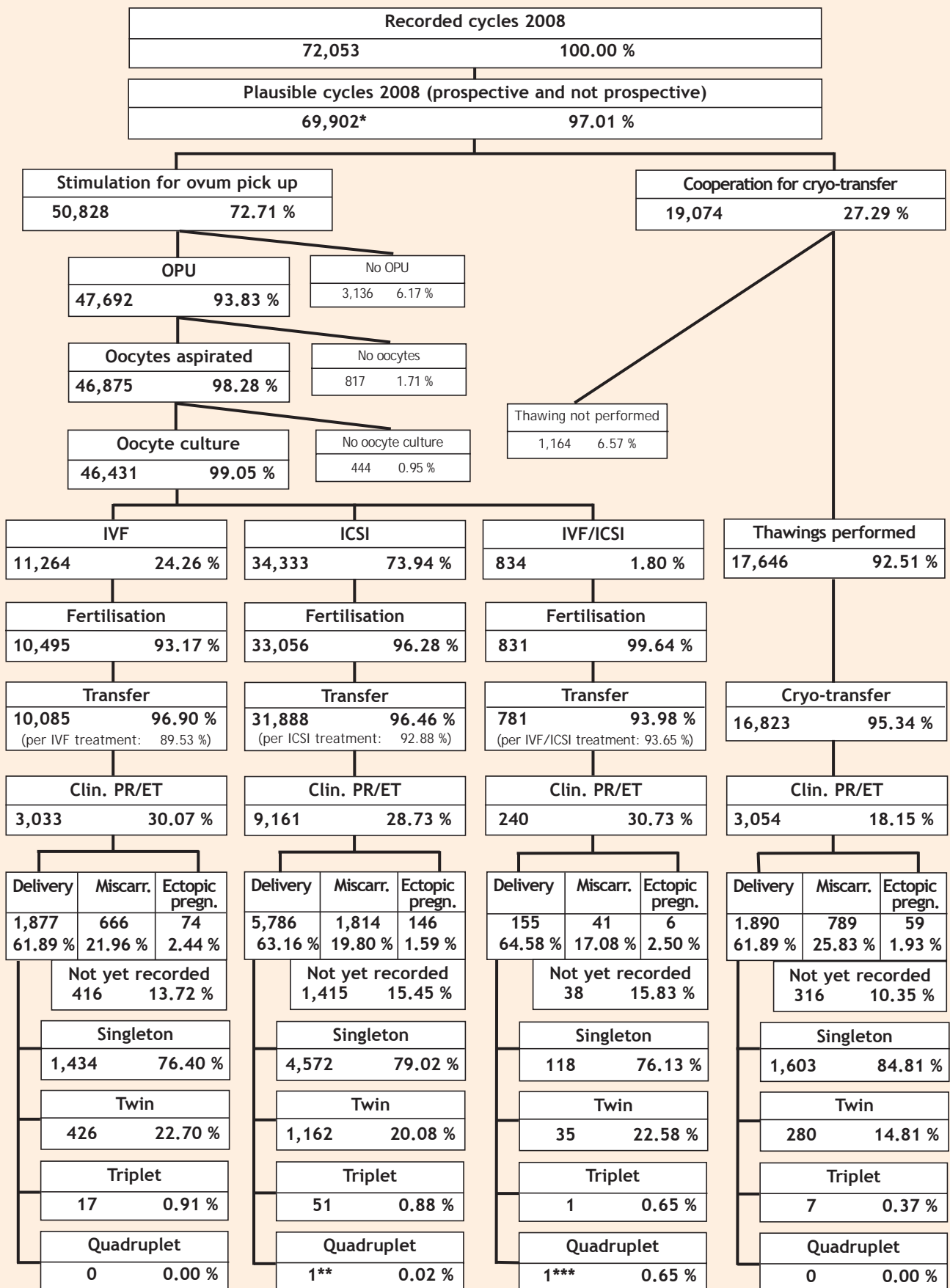
*) 6,063 cases without continued treatment are enclosed

**) Quadruplet: woman 40 years, man 34 years, first treatment cycle, 2 embryos transferred

D.I.R. statistics in short 2008 (update to annual 2008)

German IVF Registry

status: 19.08.2010



*) 5,825 cases without continued treatment are enclosed.

**) Quadruplet: woman 28 years, man 34 years, first treatment cycle, 2 embryos transferred

***) Quadruplet: woman 28 years, man 27 years, first treatment cycle, 2 embryos transferred

2008	IVF		ICSI		IVF/ICSI		cryo-transfer	
	n	%	n	%	n	%	n	%
Treatment cycles	11,264		34,333		834		17,646	
Clin. pregnancies	3,033	100.00	9,161	100.00	240	100.00	3,054	100.00
n. a.	416	13.72	1,415	15.45	38	15.83	316	10.35
Deliveries	1,877	61.89	5,786	63.16	155	64.58	1,890	61.89
Miscarriages	666	21.96	1,814	19.80	41	17.08	789	25.83
Induced abortions and fetal reductions*	48 (49)	1.58	116 (123)	1.27	4 (4)	1.67	27 (34)	0.88
Ectopic pregnancies	74	2.44	146	1.59	6	2.50	59	1.93
Children	2,337		7,053		195		2,184	
Dead newborns **	19	0.81	41	0.58	3	1.54	17	0.78
Malformations	28	1.20	81	1.15	1	0.51	15	0.69
Baby-take-home rate ***		16.66		16.85		18.59		10.71
		17.30 ¹		17.58 ¹		19.47 ¹		10.91 ¹
		18.95 ²		19.46 ²		21.53 ²		11.82 ²

Prospectively and retrospectively collected data were used.

*) Number of cycles, in which an induced abortion/fetal reduction was documented. Detailed data cannot be given. Number of embryos are given in brackets.

**) Number of dead newborns corresponding to the number of children

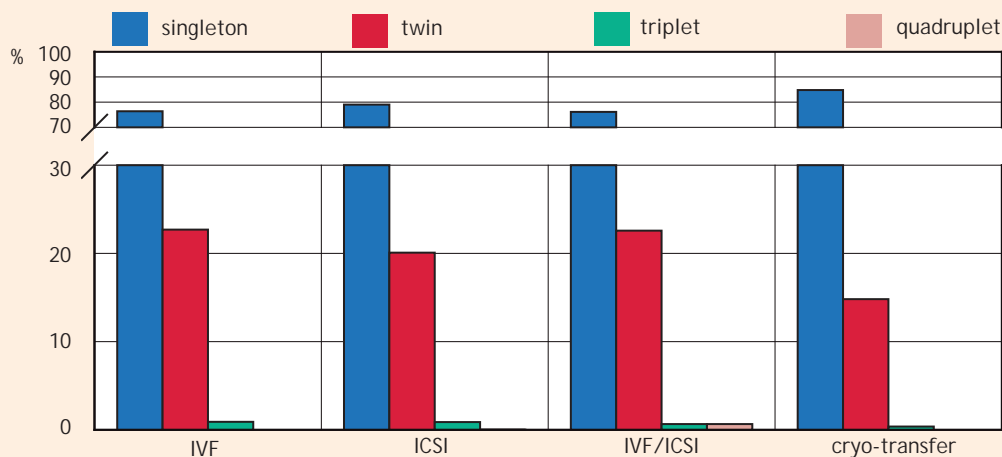
***) Number of deliveries in correlation to the number of treated cycles given in percent

1) Total number of treatment cycles reduced for those cycles with unknown pregnancy outcome

2) For cycles with unknown pregnancy outcome the probable rate for deliveries was calculated (delivery per pregnancy) and added to the reported number of deliveries

Delivery rate/transfer for patients with 2 embryos transferred and at least 2 PPN stages in abundance: IVF 24.52 %, ICSI 24.05 %, IVF/ICSI 25.00 %

Multiple deliveries 2008



Prospectively and retrospectively collected data were used.

	IVF			ICSI			IVF/ICSI			cryo-transfer		
	n	%	%	n	%	%	n	%	%	n	%	%
CLin. PR/ET	3,033	100.00		9,161	100.00		240	100.00		3,054	100.00	
Deliveries	1,877	61.89	100.00	5,786	63.16	100.00	155	64.58	100.00	1,890	61.89	100.00
Singleton	1,434	44.28	76.40	4,572	49.91	79.02	118	49.17	76.13	1,603	52.49	84.81
Twin	426	14.05	22.70	1,162	12.68	20.08	35	14.58	22.58	280	9.17	14.81
Triplet	17	0.56	0.91	51	0.56	0.88	1	0.42	0.65	7	0.23	0.37
Quadruplet	0	0.00	0.00	1	0.01	0.02	1	0.42	0.65	0	0.00	0.00
n. a.	416	13.72		1,415	15.45		38	15.83		316	10.35	
Miscarriages	666	21.96		1,814	19.80		41	17.08		789	25.83	
Ectopic Pregn.	74	2.44		146	1.59		6	2.50		59	1.93	

Deliveries as a function of the number of embryos transferred and age groups 2000 - 2008 - IVF, ICSI, IVF/ICSI, cryo-transfer

age of woman		Singleton		Twin		Triplet		Quadruplet		Total
		n	%	n	%	n	%	n	%	n
up to 24 years	1 embryo	104	100.00	0	0.00	0	0.00	0	0.00	104
	2 embryos	1,376	77.04	403	22.56	7	0.39	0	0.00	1,786
	3 embryos	258	68.07	100	26.39	19	5.01	2	0.53	379
	Total	1,738	76.60	503	22.17	26	1.15	2	0.09	2,269
25 - 29 years	1 embryo	826	98.22	15	1.78	0	0.00	0	0.00	841
	2 embryos	11,082	75.97	3,446	23.62	58	0.40	2	0.01	14,588
	3 embryos	2,293	68.76	855	25.64	184	5.52	3	0.09	3,335
	Total	14,201	75.68	4,316	23.00	242	1.29	5	0.03	18,764
30 - 34 years	1 embryo	1,868	98.16	35	1.84	0	0.00	0	0.00	1,903
	2 embryos	21,978	78.12	6,049	21.50	104	0.37	1	0.00	28,132
	3 embryos	6,339	70.85	2,243	25.07	360	4.02	5	0.06	8,947
	Total	30,185	77.43	8,327	21.36	464	1.19	6	0.02	38,982
35 - 39 years	1 embryo	1,925	98.11	37	1.89	0	0.00	0	0.00	1,962
	2 embryos	15,088	83.60	2,917	16.16	42	0.23	1	0.01	18,048
	3 embryos	8,107	76.65	2,241	21.19	227	2.15	2	0.02	10,577
	Total	25,120	82.13	5,195	16.98	269	0.88	3	0.01	30,587
40 and older	1 embryo	294	99.66	1	0.34	0	0.00	0	0.00	295
	2 embryos	1,411	91.92	122	7.95	1	0.07	1	0.07	1,535
	3 embryos	1,647	86.91	239	12.61	9	0.47	0	0.00	1,895
	Total	3,352	89.99	362	9.72	10	0.27	1	0.03	3,725

Total number of deliveries 2000 - 2008: 94,327

Prospectively and retrospectively collected data were used.

Deliveries as a function of the number of embryos transferred 2000 - 2008 - IVF, ICSI, cryo-transfer

IVF	Singleton		Twin		Triplet		Quadruplet		Total
	n	%	n	%	n	%	n	%	n
1 embryo	1,442	98.36	24	1.64	0	0.00	0	0.00	1,466
2 embryos	13,861	76.70	4,142	22.92	68	0.38	1	0.01	18,072
3 embryos	5,189	70.68	1,813	24.69	334	4.55	6	0.08	7,342
Total	20,492	76.23	5,979	22.24	402	1.50	7	0.03	26,880

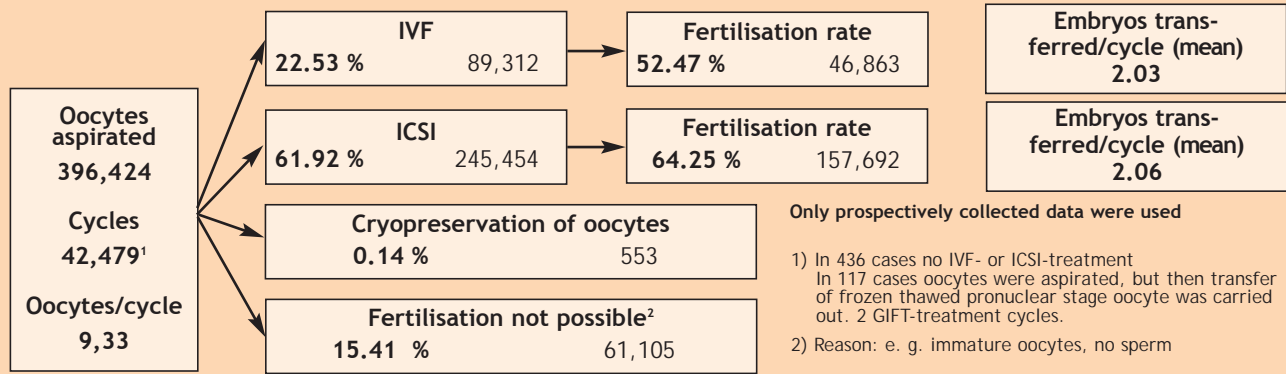
ICSI	Singleton		Twin		Triplet		Quadruplet		Total
	n	%	n	%	n	%	n	%	n
1 embryo	2,339	98.48	36	1.52	0	0.00	0	0.00	2,375
2 embryos	28,459	79.19	7,359	20.48	118	0.33	3	0.01	35,939
3 embryos	9,507	74.22	2,914	22.75	383	2.99	5	0.04	12,809
Total	40,305	78.84	10,309	20.16	501	0.98	8	0.02	51,123

cryo-transfer	Singleton		Twin		Triplet		Quadruplet		Total
	n	%	n	%	n	%	n	%	n
1 embryo	1,190	97.78	27	2.22	0	0.00	0	0.00	1,217
2 embryos	7,844	86.39	1,214	13.37	22	0.24	0	0.00	9,080
3 embryos	3,735	79.45	890	18.93	75	1.60	1	0.02	4,701
Total	12,769	85.14	2,131	14.21	97	0.65	1	0.01	14,998

Total number of deliveries 2000 - 2008 IVF, ICSI, cryo-transfer: 93,001

Prospectively and retrospectively collected data were used.

Fertilisation rate per oocyte IVF and ICSI 2009



Embryos transferred/cycle (mean*) and children IVF, ICSI 1997 - 2009
(prospective and non-prospective data)

		1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
IVF	Embryos transf.	2.49	2.44	2.36	2.29	2.25	2.19	2.17	2.15	2.11	2.08	2.06	2.06	2.03
	Children/transfer	0.21	0.22	0.23	0.23	0.24	0.22	0.23	0.23	0.24	0.25	0.25	0.23	0.14
	Children/delivery	1.31	1.30	1.30	1.28	1.27	1.26	1.26	1.25	1.23	1.23	1.24	1.24	1.24
ICSI	Embryos transf.	2.56	2.49	2.44	2.39	2.30	2.21	2.17	2.15	2.11	2.09	2.08	2.08	2.06
	Children/transfer	0.22	0.22	0.22	0.23	0.24	0.22	0.23	0.23	0.24	0.24	0.24	0.22	0.13
	Children/delivery	1.29	1.29	1.25	1.26	1.23	1.23	1.23	1.22	1.22	1.20	1.21	1.22	1.22
cryo-transfer	Embryos transf.	2.34	2.33	2.31	2.25	2.20	2.14	2.12	2.14	2.10	2.10	2.07	2.07	2.05
	Children/transfer	0.10	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.14	0.14	0.14	0.13	0.09
	Children/delivery	1.14	1.18	1.17	1.16	1.16	1.16	1.16	1.17	1.16	1.16	1.16	1.16	1.16

Distribution of indications for IVF and ICSI 2009

IVF

female factor \ male factor	Normal	%	Reduced semen quality	%	Other**	%	Total	%
Normal	1,079	10.92	803	8.13	355	3.59	2,237	22.64
Tubal infertility	1,922	19.45	791	8.00	408	4.13	3,121	31.58
Endometriosis	532	5.38	289	2.92	120	1.21	941	9.52
Hyperandrogenism	225	2.28	151	1.53	57	0.58	433	4.38
Ovulatory dysfunction	334	3.38	248	2.51	82	0.83	664	6.72
Psychological impact	4	0.04	4	0.04	8	0.08	16	0.16
Other*	560	5.67	704	7.12	675	6.83	1,939	19.62
n. a.	9	0.09	8	0.08	514	5.20	531	5.37
Total	4,665	47.21	2,998	30.34	2,219	22.45	9,882	100.00

ICSI

female factor \ male factor	Normal	%	Red. semen quality	%	Azoospermia	%	Other**	%	Total	%
Normal	843	2.69	10,946	34.98	702	2.24	1,171	3.74	13,662	43.66
Tubal infertility	595	1.90	2,032	6.49	21	0.07	274	0.88	2,922	9.34
Endometriosis	237	0.76	1,355	4.33	52	0.17	162	0.52	1,806	5.77
Hyperandrogenism	122	0.39	1,159	3.70	48	0.15	126	0.40	1,455	4.65
Ovulatory dysfunction	148	0.47	1,758	5.62	83	0.27	161	0.51	2,150	6.87
Psychological impact	2	0.01	20	0.06	0	0.00	8	0.03	30	0.10
Other*	373	1.19	4,980	15.92	171	0.55	1,498	4.79	7,022	22.44
n. a.	14	0.04	112	0.36	10	0.03	2,106	6.73	2,242	7.17
Total	2,334	7.46	22,362	71.47	1,087	3.47	5,506	17.60	31,289	100.00

*) Infertility factors "sperm antibodies" and "cervical factor" are enclosed

**) Infertility factor "impaired sperm function" and "impaired sperm-mucus-interaction" are enclosed

Only prospectively collected data were used

Outcome of IVF, ICSI and FET 2009

prospective cycles

IVF 2009

	n	%	Fertilis. %	Embryo present %	Transfer %	Clin. preg. %
IVF	9,882	100.00				
Successful fertilisation*	9,154	92.63	100.00			
At least one embryo present	8,826	89.31	96.42	100.00		
Performed ET	8,823	89.28	96.38	99.97	100.00	
Clin. pregnancy	2,655	26.87	29.00	30.08	30.09	100.00
Delivery	1,013					38.15
Miscarriage	480					18.08
Ectopic pregnancy	52					1.96
n. a.	1,110					41.81

ICSI 2009

	n	%	Fertilis. %	Embryo present %	Transfer %	Clin. preg. %
ICSI	31,289	100.00				
Successful fertilisation*	30,138	96.32	100.0			
At least one embryo present	29,002	92.69	96.23	100.00		
Performed ET	28,997	92.67	96.21	99.98	100.00	
Clin. pregnancy	8,562	27.36	28.41	29.52	29.53	100.00
Delivery	3,431					40.07
Miscarriage	1,593					18.61
Ectopic pregnancy	124					1.45
n. a.	3,414					39.87

ICSI 2009 - sperm retrieval by TESE or cryo-TESE

	n	%	Fertilis. %	Embryo present %	Transfer %	Clin. preg. %
ICSI	1,862	100.00				
Successful fertilisation*	1,735	93.18	100.00			
At least one embryo present	1,656	88.94	95.45	100.00		
Performed ET	1,656	88.94	95.45	100.00	100.00	
Clin. pregnancy	440	23.63	26.35	26.57	26.57	100.00
Delivery	167					37.95
Miscarriage	110					25.00
Ectopic pregnancy	3					0.68
n. a.	160					36.36

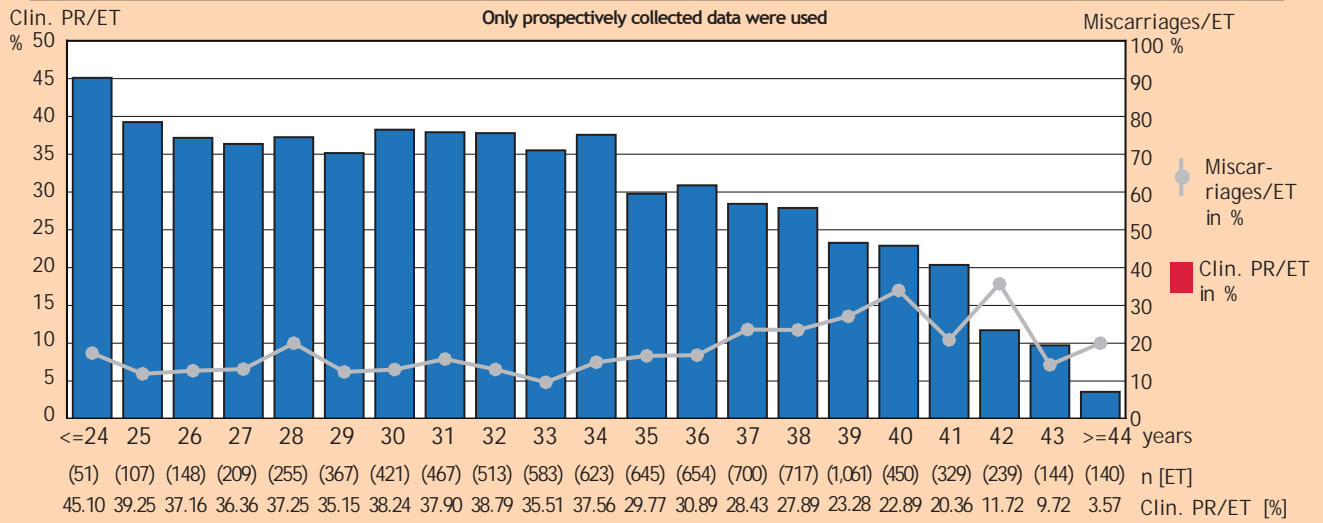
ET from cryo-preserved ZPN 2009

	n	%	PN %	Transfer %	Clin. preg. %
Thawing cycles	14,476	100.00			
Thawed PN present	13,845	95.64	100.00		
Performed ET	13,653	94.31	98.61	100.00	
Clin. pregnancy	2,661	18.38	19.22	19.49	100.00
Delivery	1,129				42.43
Miscarriage	619				23.26
Ectopic pregnancy	48				1.80
n. a.	865				32.51

*) Successful fertilisation of at least one oocyte per cycle

Outcome as a function of woman's age

IVF - 2009

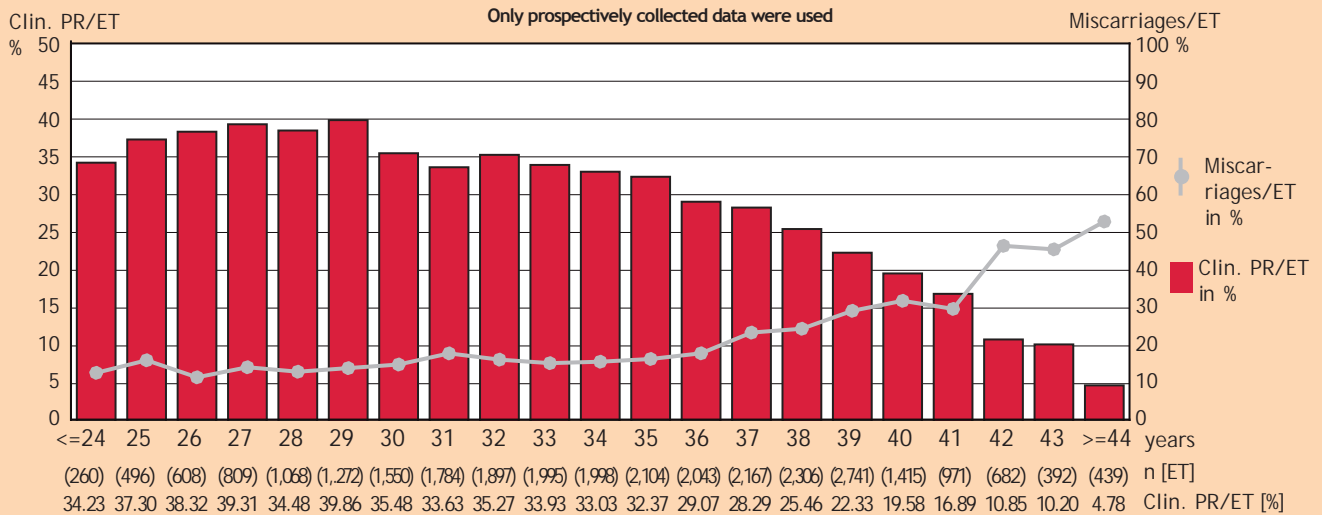


Age in years	OPU	Oocytes (mean)	Insemin. (mean)	ET	ET/OPU %	Transf. Emb. (mean)	Clin. preg.	Clin. PR/OPU %	Clin. PR/ET %	Clin. PR/ET % "ideal" *
<= 29	1,271	10.96	10.70	1,137	89.46	1.95	420	33.04	36.94	41.77
30 - 34	2,871	10.03	9.81	2,607	90.80	1.99	978	34.06	37.51	41.74
35 - 39	4,251	8.09	7.91	3,777	88.85	2.04	1,040	24.46	27.54	33.24
>= 40	1,489	6.22	6.08	1,302	87.44	2.13	217	14.57	16.67	24.53
Total	9,882	8.74	8.55	8,823	89.28	2.03	2,655	26.87	30.09	37.46

*) "ideal": 2 embryos were transferred and at least 2 2PN stages in abundance

Outcome as a function of woman's age

ICSI - 2009



Age in years	OPU	Oocytes (mean)	Injection (mean)	ET	ET/OPU %	Transf. Emb. (mean)	Clin. preg.	Clin. PR/OPU %	Clin. PR/ET %	Clin. PR/ET % "ideal" *
<= 29	4,796	11.93	9.54	4,513	94.10	2.01	1,743	36.34	38.62	42.10
30 - 34	9,812	10.80	8.72	9,224	94.01	2.02	3,156	32.16	34.22	38.55
35 - 39	12,265	8.59	6.98	11,361	92.63	2.09	3,087	25.17	27.17	31.88
>= 40	4,416	6.41	5.25	3,899	88.30	2.12	576	13.04	14.77	18.78
Total	31,289	9.49	7.67	28,997	92.67	2.06	8,562	27.36	29.53	36.16

*) "ideal": 2 embryos were transferred and at least 2 2PN stages in abundance

Clinical pregnancy rate as a function of the number of embryos transferred and age groups 2009

IVF	1 Embryo		2 Embryos		3 Embryos		Total	
	ET	Clin. PR/ET %	ET	Clin. PR/ET %	ET	Clin. PR/ET %	ET	Clin. PR/ET %
up to 24 years	4	25.00	47	46.81	0	-	51	45.10
25 - 29 years	122	22.13	890	38.65	74	35.14	1,086	36.56
30 - 34 years	275	18.91	2,087	39.96	245	37.55	2,607	37.51
35 - 39 years	565	15.04	2,486	29.69	726	29.89	3,777	27.54
40 - 44 years	276	8.33	528	19.32	444	20.27	1,248	17.23
45 years and older	16	0.00	20	5.00	18	5.56	54	3.70
Total	1,258	14.94	6,058	33,69	1,507	28.27	8,823	30.09

ICSI	1 Embryo		2 Embryos		3 Embryos		Total	
	ET	Clin. PR/ET %	ET	Clin. PR/ET %	ET	Clin. PR/ET %	ET	Clin. PR/ET %
up to 24 years	25	12.00	211	38.39	24	20.83	260	34.23
25 - 29 years	334	21.26	3,543	40.81	376	36.44	4,253	38.89
30 - 34 years	857	19.95	7,308	36.12	1,059	32.58	9,224	34.22
35 - 39 years	1,592	13.88	7,166	29.77	2,603	28.16	11,361	27.17
40 - 44 years	859	6.40	1,503	15.70	1,325	21.06	3,687	15.46
45 years and older	71	0.00	73	2.74	68	5.88	212	2.83
Total	3,738	13.94	19,804	33.01	5,455	27.55	28,997	29.53

Cryo-transfer	1 Embryo		2 Embryos		3 Embryos		Total	
	ET	Clin. PR/ET %	ET	Clin. PR/ET %	ET	Clin. PR/ET %	ET	Clin. PR/ET %
up to 24 years	13	23.08	88	18.18	20	30.00	121	20.66
25 - 29 years	262	11.83	1,288	22.36	424	23.35	1,976	21.15
30 - 34 years	698	11.89	3,081	21.84	980	24.90	4,763	21.00
35 - 39 years	839	10.37	3,210	20.56	1,147	23.80	5,205	19.62
40 - 44 years	283	6.71	828	13.04	439	15.95	1,553	12.69
45 years and older	5	0.00	13	0.00	17	0.00	35	0.00
Total	2,100	10.62	8,508	20.51	3,027	22.86	13,653*	19.49

*) Embryos transferred plus 2PN stages; in 18 cases uncalculable

Only prospectively collected data were used.

Clinical pregnancy rate as a function of the embryo quality 2009

IVF, ICSI, IVF/ICSI

Quality		<= 29 years		30 - 34 years		35 - 39 years		>= 40 years		Total	
ideal	non-ideal	ET	Clin. PR/ET %	ET	Clin. PR/ET %	ET	Clin. PR/ET %	ET	Clin. PR/ET %	ET	Clin. PR/ET %
0	1	67	8.96	193	6.74	381	8.40	207	5.31	848	7.31
0	2	287	22.30	655	21.83	679	15.46	179	9.50	1,800	18.28
0	3	24	25.00	79	15.19	177	13.56	102	11.76	382	14.14
1	0	425	22.82	964	22.41	1,813	15.39	1,026	6.53	4,228	15.59
1	1	560	34.46	1,141	26.56	1,369	21.91	364	12.64	3,434	24.52
1	2	32	21.88	93	31.18	264	18.56	150	12.67	539	19.29
2	0	3,919	42.64	7,789	39.62	7,814	32.45	1,629	17.68	21,151	35.84
2	1	76	36.84	240	30.00	593	27.15	323	17.65	1,232	25.81
3	0	346	37.28	904	36.50	2,346	31.42	1,313	22.54	4,909	30.39
Total		5,736	38.37	12,058	34.86	15,436	27.36	5,293	15.36	38,523	29.70

Only prospectively collected data were used.

Clinical pregnancy rate as a function of the embryo quality 2009

FET

Quality		after IVF		after ICSI	
ideal	non-ideal	ET	Clin. PR/ET %	ET	Clin. PR/ET %
0	1	105	1.90	339	7.08
0	2	268	10.82	683	10.40
0	3	80	12.50	205	13.66
1	0	420	10.71	1,157	12.53
1	1	567	15.70	1,228	18.08
1	2	119	15.13	262	21.37
2	0	1,745	23.78	3,707	23.47
2	1	227	25.11	385	25.19
3	0	554	27.98	1,062	24.01
Total*		4,085	20.07	9,028	19.58

*) In 10 cases the previous method of treatment was IVF/ICSI; in 530 cases the previous method of treatment was unknown.

Only prospectively collected data were used.

Miscarriage rates as a function of woman's age and the number of embryos transferred 2009

IVF, ICSI, IVF/ICSI

Age in years	1 Embryo		2 Embryos		3 Embryos		Total	
	Clin. preg.	Miscarriage/ clin. preg. %	Clin. preg.	Miscarriage/ clin. preg. %	Clin. preg.	Miscarriage/ clin. preg. %	Clin. preg.	Miscarriage/ clin. preg. %
<= 24	4	25.00	105	12.38	5	20.00	114	13.16
25 - 29	99	10.10	1,823	13.49	165	13.33	2,087	13.32
30 - 34	227	15.42	3,532	14.33	445	20.45	4,204	15.03
35 - 39	310	22.58	2,942	20.77	971	24.51	4,223	21.76
40 - 44	78	39.74	348	33.91	379	29.82	805	32.55
45 =>	0	-	3	0.00	5	40.00	8	25.00
Total	718	20.47	8,753	17.07	1,970	23.71	11,441	18.42

Cryo-transfer

Age in years	1 Embryo		2 Embryos		3 Embryos		Total	
	Clin. preg.	Miscarriage/ clin. preg. %	Clin. preg.	Miscarriage/ clin. preg. %	Clin. preg.	Miscarriage/ clin. preg. %	Clin. preg.	Miscarriage/ clin. preg. %
<= 24	3	0.00	16	6.25	6	0.00	25	4.00
25 - 29	31	9.68	288	23.96	99	22.22	418	22.49
30 - 34	83	19.28	673	20.36	244	27.05	1,000	21.90
35 - 39	87	25.29	660	21.06	273	24.91	1,021*	22.43
40 - 44	19	47.37	108	38.89	70	35.71	197	38.58
45 =>	0	-	0	-	0	-	0	-
Total	223	22.42	1,745	22.23	692	26.16	2,661	23.26

*) in one case the number of embryos transferred is not known

Only prospectively collected data were used.

- IVF -

	U-FSH	rec-FSH	hMG only	rec-LH and rec-FSH	rec-FSH and hMG	Other*	n. a.	Total
short GnRH	12	409	539	27	94	5	5	1,091
Transfer rate (%)	83.33	92.91	95.92	81.48	82.98	80.00	100.00	93.20
Clin. PR/ET (%)	40.00	33.42	29.21	18.18	14.29	0.00	0.00	29.08
long GnRH	29	2,518	1,076	373	758	114	8	4,876
Transfer rate (%)	96.55	89.63	89.22	87.94	89.31	88.60	100.00	89.39
Clin. PR/ET (%)	28.57	34.03	29.27	32.01	29.54	31.68	25.00	31.98
Without analogues	2	346	193	37	71	93	106	848
Transfer rate (%)	100.00	89.31	91.71	78.38	80.28	80.65	74.53	85.85
Clin. PR/ET (%)	0.00	36.25	29.38	31.03	24.56	20.00	21.52	27.08
Antagonists	37	1,692	639	144	218	328	9	3,067
Transfer rate (%)	94.59	90.31	86.23	83.33	84.86	89.94	88.89	88.75
Clin. PR/ET (%)	17.14	30.10	25.09	25.00	23.24	22.03	12.50	27.22
Total	80	4,965	2,447	581	1,141	540	128	9,882

- ICSI -

	U-FSH	rec-FSH	hMG only	rec-LH and rec-FSH	rec-FSH and hMG	Other*	n. a.	Total
short GnRH	64	1,091	867	80	274	79	1	2,456
Transfer rate (%)	92.19	94.59	93.54	87.50	91.97	91.14	0.00	93.48
Clin. PR/ET (%)	11.86	25.39	23.18	24.64	17.06	18.06	0.00	23.06
long GnRH	110	8,594	2,707	1,374	2,720	256	20	15,781
Transfer rate (%)	93.64	93.47	94.24	91.05	94.71	94.14	100.00	93.63
Clin. PR/ET (%)	28.16	33.30	29.33	33.33	31.34	28.63	25.00	32.13
Without analogues	2	1,349	685	192	386	227	414	3,255
Transfer rate (%)	100.00	94.51	90.80	95.83	91.97	83.70	73.91	90.14
Clin. PR/ET (%)	0.00	31.34	27.33	28.26	25.63	22.63	16.07	25.02
Antagonists	59	5,267	1,780	630	1,174	866	21	9,797
Transfer rate (%)	96.61	93.91	90.73	87.94	91.31	86.26	76.19	91.94
Clin. PR/ET (%)	21.05	31.18	23.74	27.26	22.76	19.44	18.75	27.37
Total	235	16,301	6,039	2,276	4,554	1,428	456	31,289

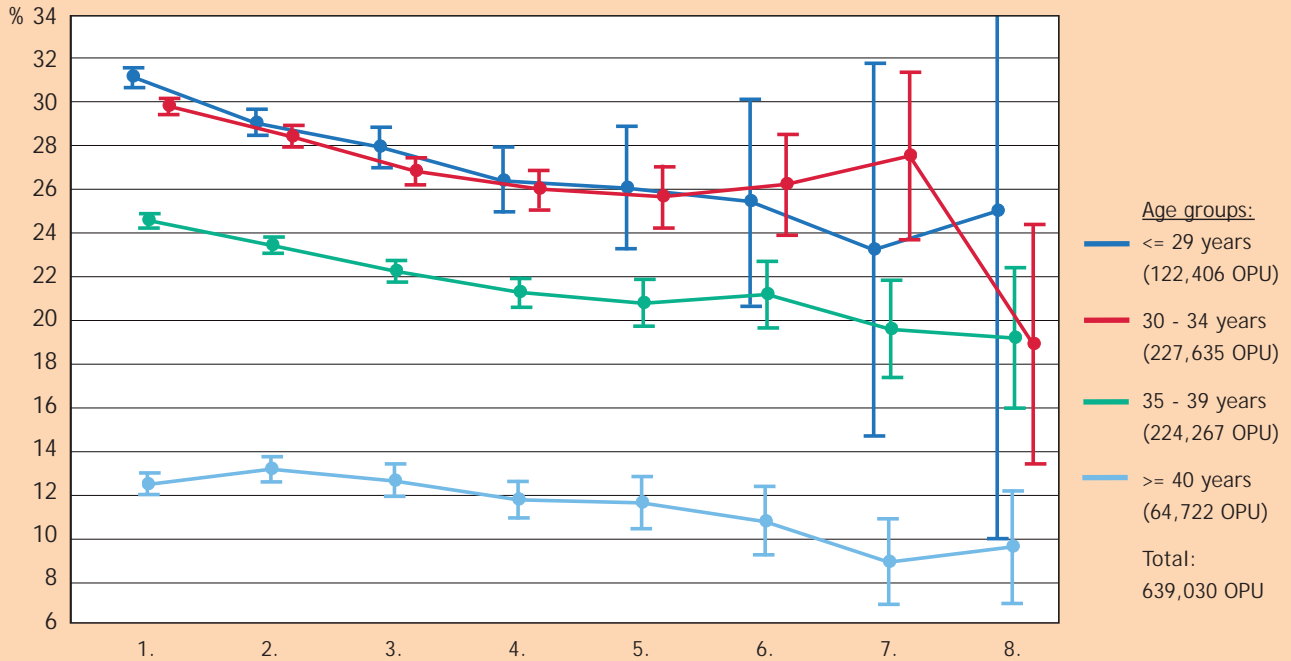
*) e. g. U-FSH and hMG, Clomifen/rec-FSH, Clomifen/hMG etc.

Only prospectively collected data were used.

Preg. rate/ovum pick up (OPU) as a function of the n. OPU and age

2000 - 2009 IVF, ICSI, IVF/ICSI

Clin. preg./OPU*



*) Clin. preg. rate/OPU for women in a certain age group at n. OPU (IVF, ICSI, IVF/ICSI). For example: All women between 35 and 39 years old, which did a fifth treatment cycle with OPU, had an average pregnancy rate of 20.7 % per cycle.

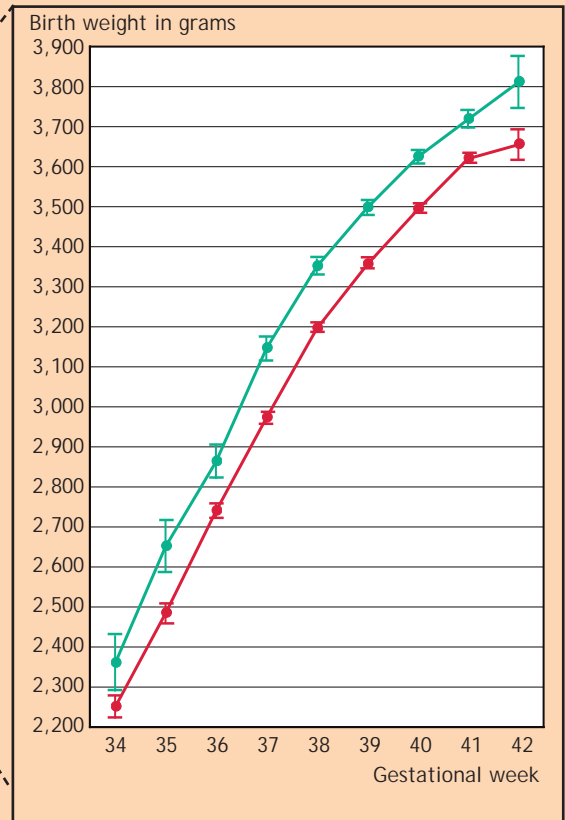
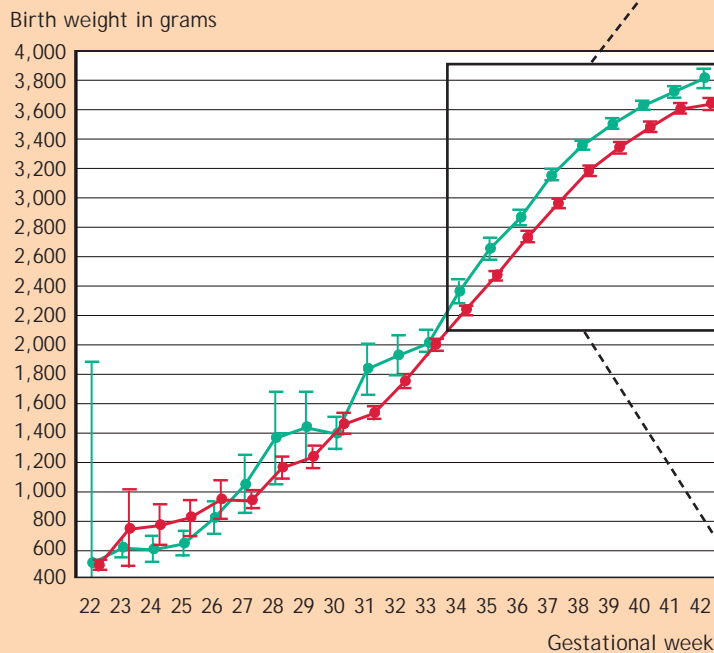
Prospectively and retrospectively collected data were used.

Birth weight of singletons as a function of the kind of treatment

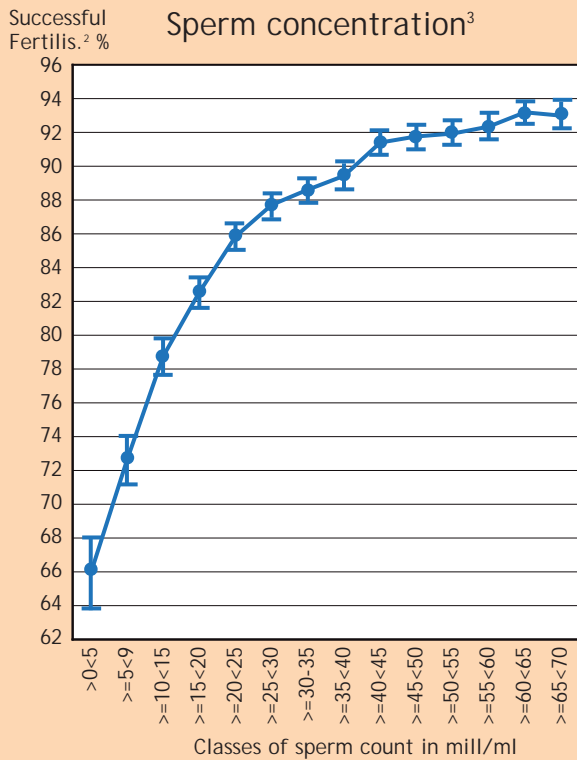
2000 - 2009

Prospectively and retrospectively collected data were used.

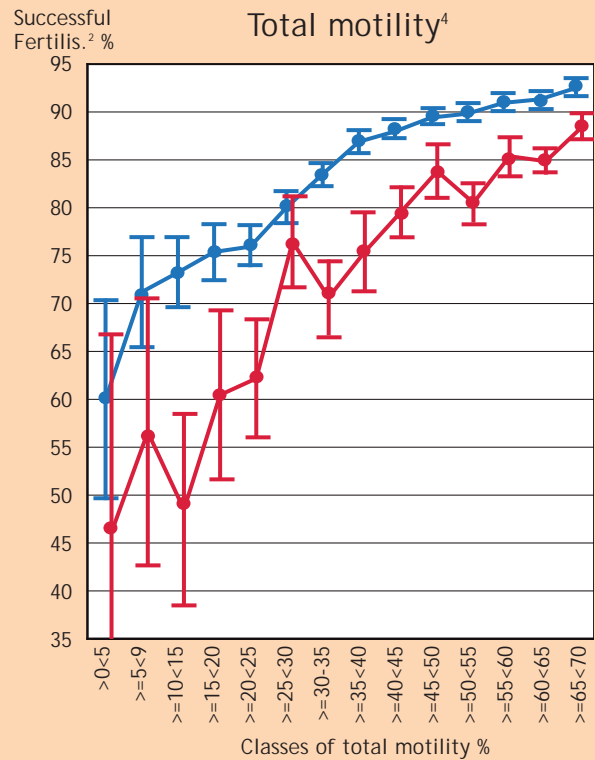
- Cryo-transfer (n = 12,641)
- Stimulation cycles (IVF, ICS, IVF/ICSI), (n = 60,820)



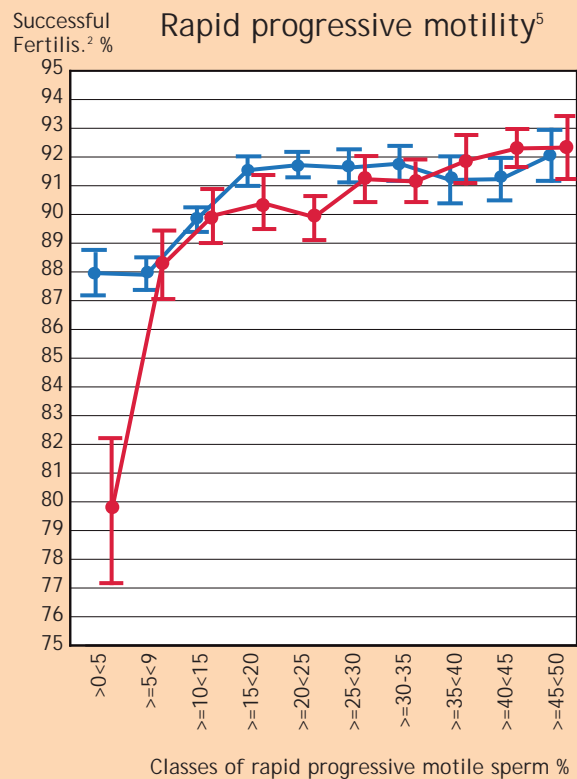
Successful fertilisation per treatment cycle as a function of semen analysis before and after sperm preparation, 2000 - 2009¹



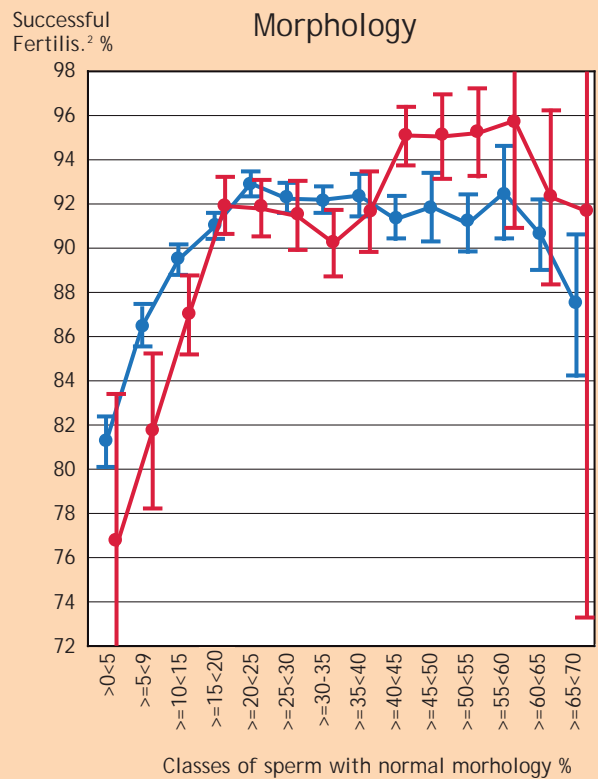
— before preparation, n = 109,108



— before preparation, n = 112,237
— after preparation, n = 57,971



— before preparation, n = 143,108
— after preparation, n = 77,806



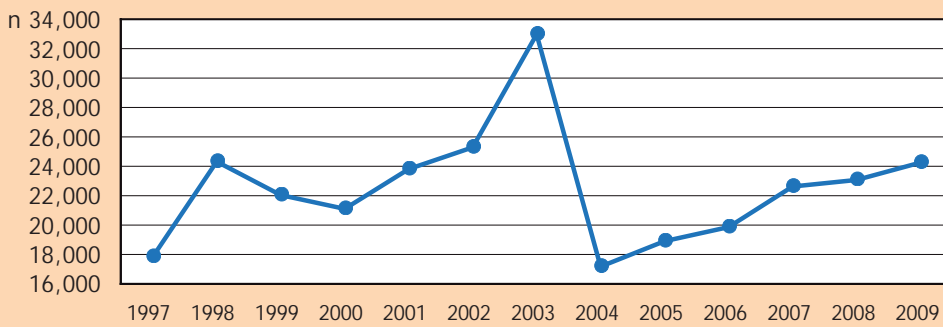
— before preparation, n = 97,189
— after preparation, n = 53,620

1) total 166,478 treatment cycles
2) Successful fertilisation of at least one oocyte per cycle
3) there are no reference values for sperm count after sperm preparation

4) WHO A,B,C according to WHO Laboratory manual, fourth edition
5) WHO A according to WHO Laboratory manual, fourth edition
Prospectively and retrospectively collected data were used.

Number of initial treatment cycles per year

1997 - 2009 - IVF, ICSI, IVF/ICSI *



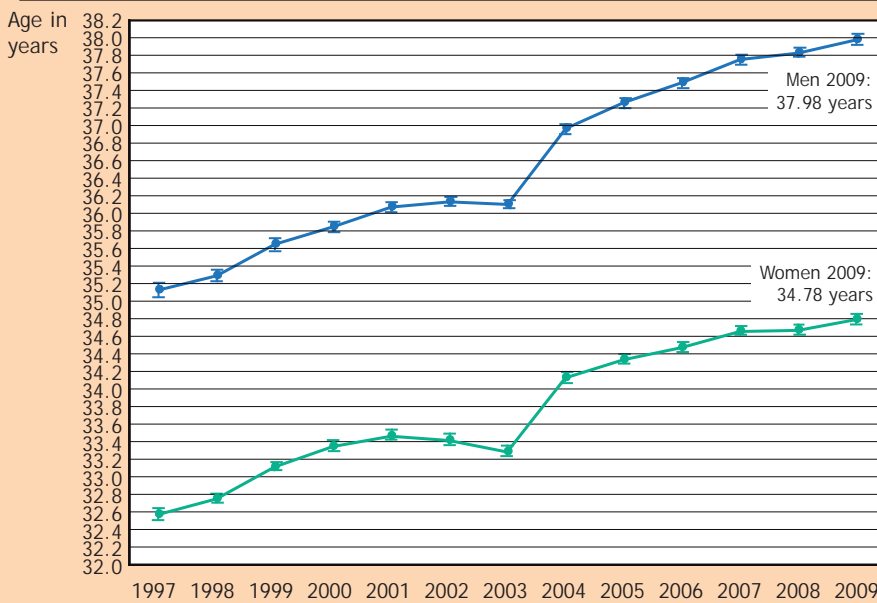
n = Number of women undergoing their treatment cycle in this year

*) cancelled cycles are enclosed

Prospectively and retrospectively collected data were used.

Average age of women and men

1997 - 2009 - IVF, ICSI, IVF/ICSI



Man
Woman

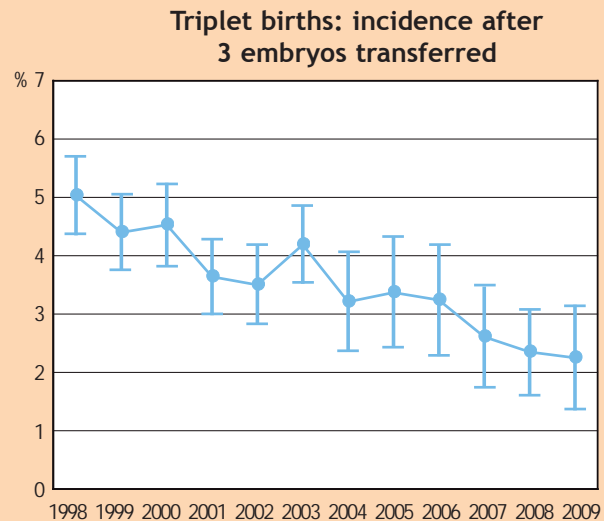
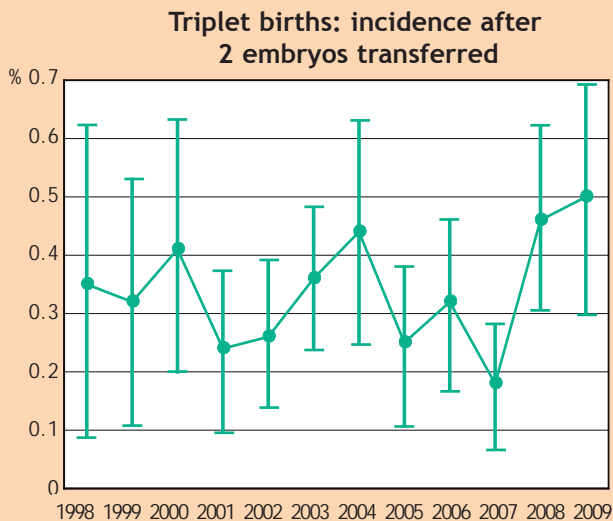
● : Mean

I : 95 % confidence interval. (For instance: the CI for women during 1997 describes a probability of 95 % for the mean age of lying between 32.51 and 32.65 years)

Prospectively and retrospectively collected data were used.

Triplet births: incidence after two and three embryos transferred

1998 - 2009 IVF, ICSI, IVF/ICSI, cryo-transfer



Prospectively and retrospectively collected data were used.

All children 1997 - 2009

prospective und retrospective data

IVF, ICSI, IVF/ICSI

	Singleton		Twin		Triplet		Quadruplet		Total n
	n	%	n	%	n	%	n	%	
1997*	2,414 (2,406)	57.50 (57.79)	1,412 (1,394)	33.64 (33.49)	360 (351)	8.58 (8.43)	12 (12)	0.29 (0.29)	4,198 (4,163)
1998*	4,892 (4,867)	57.63 (57.90)	2,916 (2,882)	34.35 (34.29)	681 (657)	8.02 (7.82)	0 (0)	0.00 (0.00)	8,489 (8,406)
1999*	5,472 (5,438)	59.30 (59.55)	3,172 (3,130)	34.38 (34.28)	579 (560)	6.28 (6.13)	4 (4)	0.04 (0.04)	9,227 (9,132)
2000*	5,418 (5,402)	59.01 (59.29)	3,242 (3,200)	35.31 (35.12)	513 (502)	5.59 (5.51)	8 (7)	0.09 (0.08)	9,181 (9,111)
2001*	6,798 (6,774)	60.89 (61.04)	3,956 (3,919)	35.43 (35.31)	411 (405)	3.68 (3.65)	0 (0)	0.00 (0.00)	11,165 (11,098)
2002*	7,746 (7,724)	62.59 (62.78)	4,256 (4,210)	34.39 (34.22)	366 (362)	2.96 (2.94)	8 (7)	0.06 (0.06)	12,376 (12,303)
2003*	10,723 (10,688)	62.13 (62.78)	5,960 (5,866)	34.53 (34.22)	552 (533)	3.20 (2.94)	24 (24)	0.14 (0.14)	17,259 (17,111)
2004*	5,368 (5,352)	63.69 (62.46)	2,826 (2,801)	33.53 (34.28)	234 (223)	2.78 (3.11)	0 (0)	0.00 (0.00)	8,428 (8,376)
2005*	5,527 (5,515)	63.84 (63.90)	2,936 (2,906)	33.91 (33.44)	183 (179)	2.11 (2.66)	12 (11)	0.14 (0.13)	8,658 (8,611)
2006*	5,906 (5,894)	65.50 (64.05)	2,922 (2,890)	32.41 (33.75)	189 (174)	2.10 (2.08)	0 (0)	0.00 (0.00)	9,017 (8,958)
2007*	6,611 (6,578)	64.50 (64.64)	3,488 (3,455)	34.03 (33.95)	147 (140)	1.43 (1.38)	4 (4)	0.04 (0.04)	10,250 (10,177)
2008*	6,359 (6,337)	63.72 (63.93)	3,400 (3,360)	34.07 (33.89)	213 (208)	2.13 (2.10)	8 (8)	0.08 (0.08)	9,980 (9,913)
2009*	4,075 (4,051)	63.94 (64.00)	2,168 (2,150)	34.02 (33.97)	126 (125)	1.98 (1.97)	4 (4)	0.06 (0.06)	6,373 (6,330)

*) Values in brackets refer to live births. Added values of all years observed revealed the following results: 77,309 singleton (77,026), twin 42,654 (42,163), triplet 4,554 (3,415), quadruplet 84 (81); total: 124,601 (123,689)

Total (IVF, ICSI, IVF/ICSI, cryo-transfer)

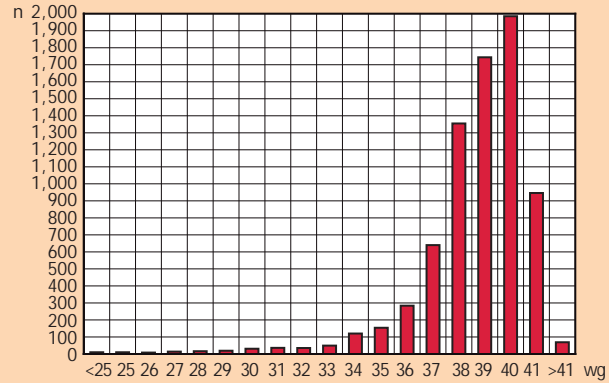
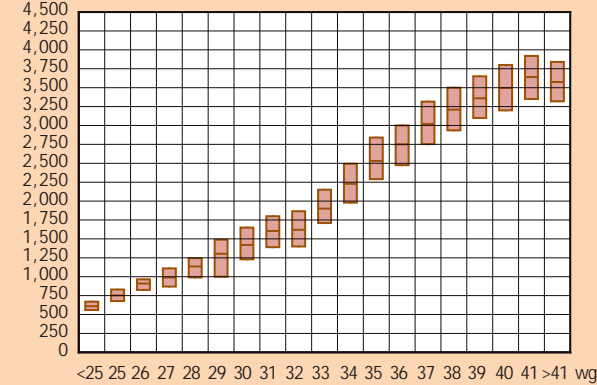
	Singleton		Twin		Triplet		Quadruplet		Total n
	n	%	n	%	n	%	n	%	
1997*	2,603 (2,593)	58.57 (58.84)	1,454 (1,436)	32.72 (32.58)	375 (366)	8.44 (8.30)	12 (12)	0.27 (0.27)	4,444 (4,407)
1998*	5,400 (5,372)	58.68 (58.94)	3,094 (3,058)	33.62 (33.55)	708 (684)	7.69 (7.50)	0 (0)	0.00 (0.00)	9,202 (9,114)
1999*	6,175 (6,137)	60.55 (60.80)	3,408 (3,362)	33.42 (33.31)	612 (591)	6.00 (5.85)	4 (4)	0.04 (0.04)	10,199 (10,094)
2000*	6,207 (6,189)	60.46 (60.72)	3,524 (3,479)	34.32 (34.13)	528 (517)	5.14 (5.07)	8 (7)	0.08 (0.07)	10,267 (10,192)
2001*	7,795 (7,764)	62.20 (62.33)	4,288 (4,248)	34.21 (34.10)	450 (444)	3.59 (3.56)	0 (0)	0.00 (0.00)	12,533 (12,456)
2002*	8,930 (8,902)	63.84 (64.02)	4,662 (4,615)	33.33 (33.19)	387 (382)	2.77 (2.75)	8 (7)	0.06 (0.05)	13,987 (13,906)
2003*	11,922 (11,887)	63.16 (63.48)	6,334 (6,237)	33.55 (33.31)	597 (578)	3.16 (3.09)	24 (24)	0.13 (0.13)	18,877 (18,726)
2004*	6,891 (6,869)	65.63 (65.81)	3,336 (3,306)	31.77 (31.68)	273 (262)	2.60 (2.51)	0 (0)	0.00 (0.00)	10,500 (10,437)
2005*	7,038 (7,020)	65.76 (65.93)	3,440 (3,408)	32.14 (32.01)	213 (209)	1.99 (1.96)	12 (11)	0.11 (0.10)	10,703 (10,648)
2006*	7,419 (7,402)	66.87 (67.14)	3,450 (3,417)	31.10 (30.99)	222 (202)	2.00 (1.83)	4 (4)	0.04 (0.04)	11,095 (11,025)
2007*	8,346 (8,305)	66.30 (66.40)	4,058 (4,025)	32.24 (32.18)	180 (173)	1.43 (1.38)	4 (4)	0.03 (0.03)	12,588 (12,507)
2008*	8,036 (8,010)	65.47 (65.71)	3,994 (3,943)	32.54 (32.35)	237 (229)	1.93 (1.88)	8 (8)	0.07 (0.07)	12,275 (12,190)
2009*	5,205 (5,175)	65.77 (65.81)	2,558 (2,538)	32.32 (32.28)	147 (146)	1.86 (1.86)	4 (4)	0.05 (0.05)	7,914 (7,863)

*) Values in brackets refer to live births. Added values of all years observed revealed the following results: singleton 91,967 (91,625), twin 47,600 (47,072), triplet 4,929 (4,793), quadruplet 88 (85); total: 144,584 (143,565)

Childrens birth weight (bw) and week of gestation (wg) 2008*

Birth weight
in grams

Singleton 2008



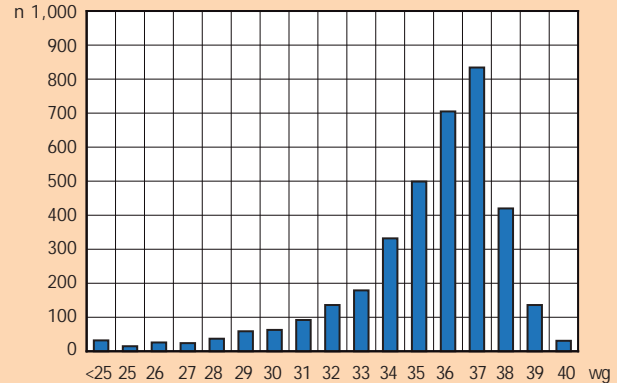
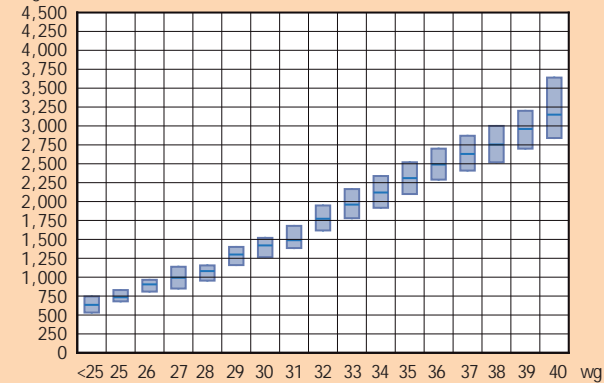
wg	< 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	> 41	total*
n	10	10	8	14	16	19	31	36	35	49	120	154	284	640	1,355	1,744	1,985	946	69	7,525
bw Q 25	560	678	825	870	990	1,000	1,230	1,390	1,400	1,710	1,980	2,290	2,475	2,753	2,935	3,100	3,200	3,350	3,320	2,980
bw median	610	753	910	990	1,135	1,304	1,420	1,605	1,620	1,900	2,228	2,530	2,750	3,020	3,210	3,360	3,496	3,640	3,575	3,320
bw Q 75	670	830	965	1,110	1,245	1,490	1,650	1,800	1,866	2,150	2,493	2,840	3,000	3,315	3,500	3,650	3,800	3,920	3,840	3,665

p25 = 38. wg p50 = 39. wg p75 = 40. wg

Percentage of children born before completion of 37th wg: 18.95 %

Birth weight
in grams

Twin 2008



wg	<25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	total*
n	32	15	26	24	37	59	63	92	136	179	332	499	705	834	420	136	31	3,628
bw Q 25	532	680	810	850	955	1,160	1,265	1,385	1,618	1,780	1,918	2,100	2,290	2,410	2,520	2,700	2,840	2,040
bw median	634	734	905	993	1,080	1,300	1,420	1,489	1,773	1,960	2,120	2,310	2,490	2,630	2,755	2,960	3,150	2,410
bw Q 75	745	830	965	1,138	1,156	1,400	1,520	1,678	1,948	2,165	2,338	2,520	2,700	3,000	3,200	3,640	4,130	2,730

p25 = 34. wg p50 = 36. wg p75 = 37. wg

Percentage of children born before completion of 37th wg: 83.60 %

*) data contain 8 cases wg > 40

Triplet 2008

wg	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	total*
n	2	3	3	15	11	24	21	36	31	33	9	2	3	-	3	196
bw Q 25	740	635	810	930	1,000	1,200	1,325	1,495	1,645	1,770	2,030	2,550	3,040	-	1,410	1,298
bw median	755	798	875	975	1,120	1,418	1,455	1,785	1,825	1,970	2,050	2,575	3,330	-	1,495	1,637
bw Q 75	770	1,074	940	1,100	1,275	1,490	1,550	1,920	1,990	2,110	2,185	2,600	3,850	-	1,730	1,950

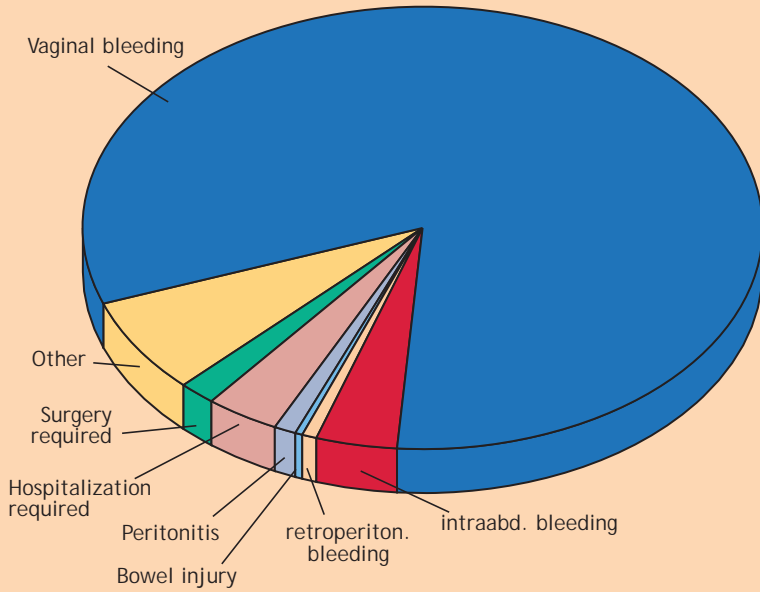
p25 = 30. wg p50 = 32. wg p75 = 34. wg

Percentage of children born before completion of 37th wg: 98.47 %

Prospectively and retrospectively collected data were used.

*) 2008: updated data with lower loss for follow up-rate: Children with plausible birth weight and week of gestation

Complications as a function of ovum pick up 2009



Total OPU's	43,192	100.00 %
n. a.	82	0.19
No complications	42,825	99.15
Complications	285	0.66

Complication	n	%
Vaginal bleeding	233	81.75
Intraabdom. bleeding	11	3.86
Retroperiton. bleeding	2	0.70
Bowel injury	1	0.35
Peritonitis	3	1.05
Hospitalization required	10	3.51
Surgery required	5	1.75
Other	20	7.02
Total	285	100.00

Only prospectively collected data were used.

OHSS as a function of the stimulation protocol

IVF, ICSI, IVF/ICSI 2009

	Stimulation	%	Oocytes retrieved	OHSS III/ST	%
Short GnRH	3,573	8.52	8.01	4	0.11
FSH only	1,591		9.11	3	0.19
hMG only	1,415		7.58	1	0.07
FSH und hMG	439		6.06	0	0.00
Other	122		5.57	0	0.00
n. a.	6		8.67	0	0.00
Long GnRH	21,105	50.34	10.37	71	0.34
FSH only	11,699		11.13	50	0.43
hMG only	3,847		9.11	10	0.26
FSH und hMG	3,646		9.79	11	0.30
Other	1,884		9.37	0	0.00
n. a.	29		11.10	0	0.00
Without analogues	4,158	9.92	8.71	6	0.14
FSH only	1,732		10.60	5	0.29
hMG only	887		8.60	0	0.00
FSH und hMG	492		8.55	0	0.00
Other	525		6.04	0	0.00
n. a.	522		5.50	1	0.19
Antagonists	13,088	31.22	8.34	34	0.26
FSH only	7,254		9.43	27	0.37
hMG only	2,435		7.24	2	0.08
FSH und hMG	1,479		7.22	4	0.27
Other	1,890		6.54	1	0.05
n. a.	30		5.33	0	0.00
Total	41,924	100.00	9.37	115	0.27

Only prospectively collected data were used.

Distribution of patients with "ideal prognosis"* as a function of size of centre

2000 - 2009

*) "ideal prognosis": age of women < 35 years and first stimulation cycle transfer (IVF, ICSI, IVF/ICSI)

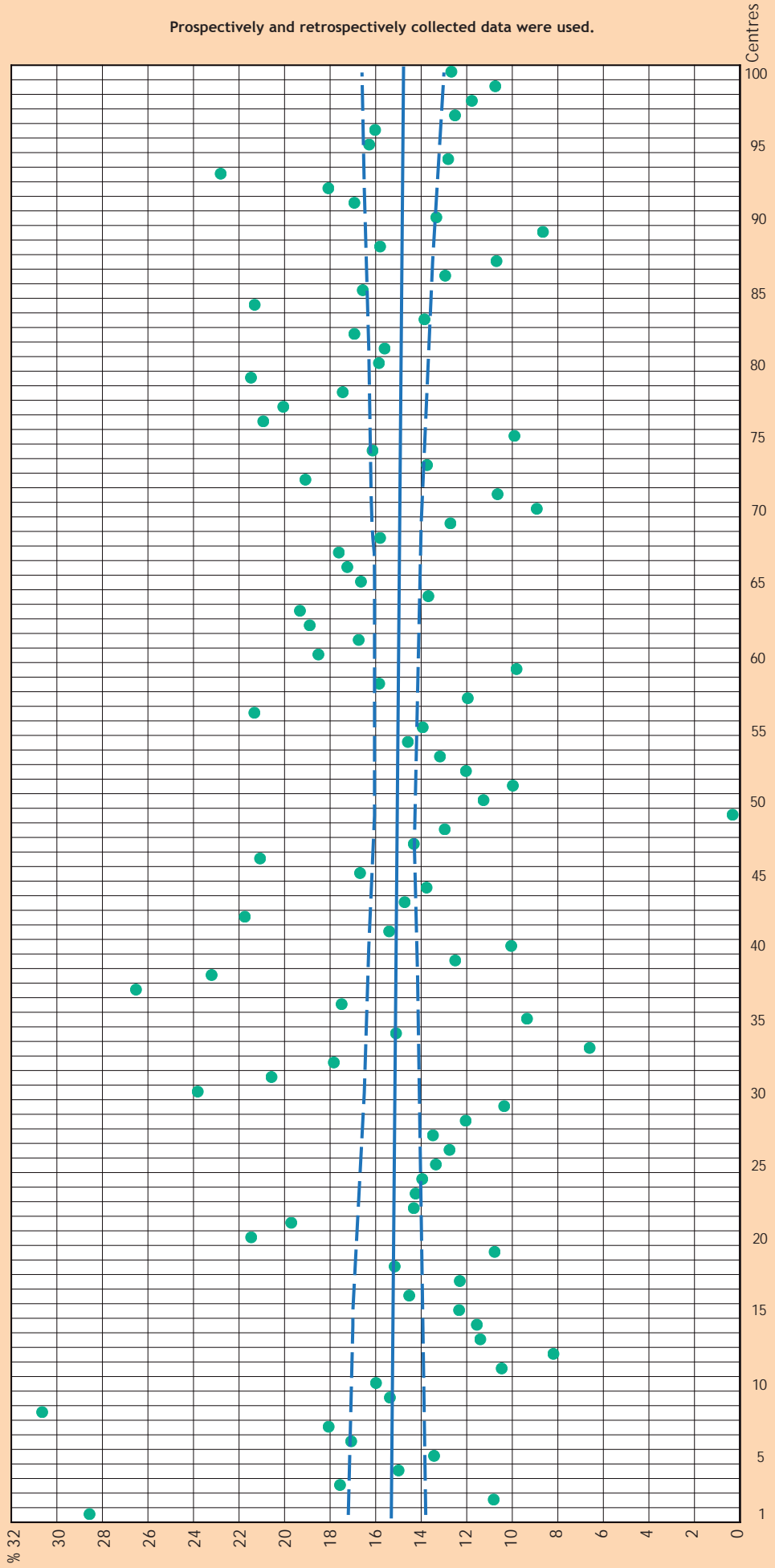
Base: 100 largest centres with at least 1,000 stimulation cycle transfers (IVF, ICSI, IVF/ICSI) in 10 years, arranged from left (1) to right (100) size ascending (= number of stimulation cycle transfers)

Interpretation of results:

The part of women with "ideal prognosis" does not correlate with size of centre (= number of stimulation cycle transfers)

The linear function is a method positioning a best-fitting line in a scatter plot so that the mean square deviation of the data points is minimized by this function.
The straight lines indicates the linear regression function of the single values of the particular item.

Percentage of women with "ideal prognosis" per centre



Pregnancy rate of patients with "ideal prognosis"* and of the remaining patients as a function of size of centre 2000 - 2009

*) "ideal prognosis": age of women < 35 years and first stimulation cycle transfer (IVF, ICSI, IVF/ICSI)

Base: 100 largest centres with at least 1,000 stimulation cycle transfers (IVF, ICSI, IVF/ICSI) in 10 years, arranged from left (1) to right (100) size ascending (= number of stimulation cycle transfers)

● Women with "ideal prognosis"

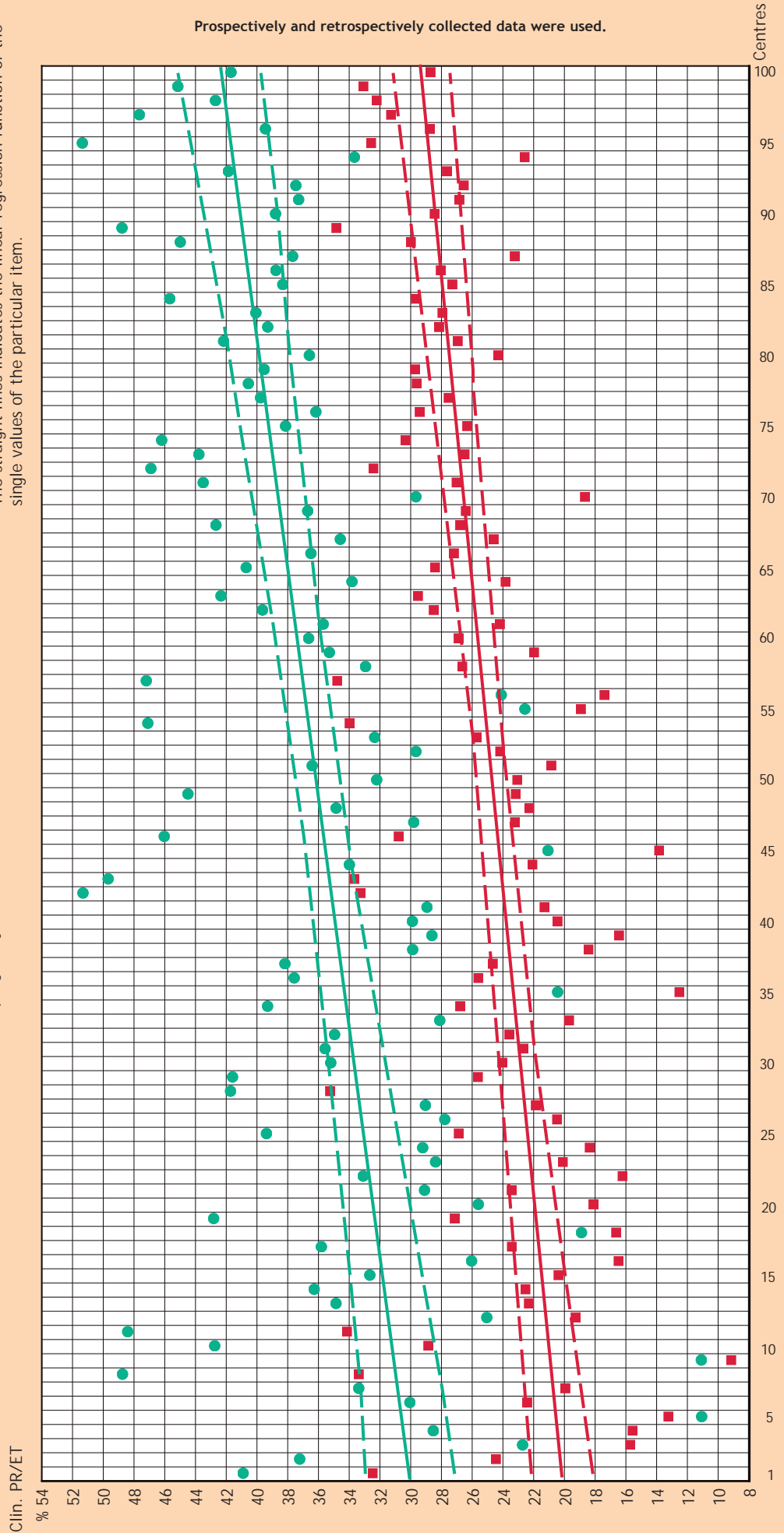
■ Remaining women

Interpretation of results:

For women with "ideal prognosis" and for the remaining women the larger centres offer by trend higher pregnancy rates as the smaller centres.

The linear function is a method positioning a best-fit line in a scatter plot so that the mean square deviation of the data points is minimized by this function.

The straight lines indicate the linear regression function of the single values of the particular item.



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