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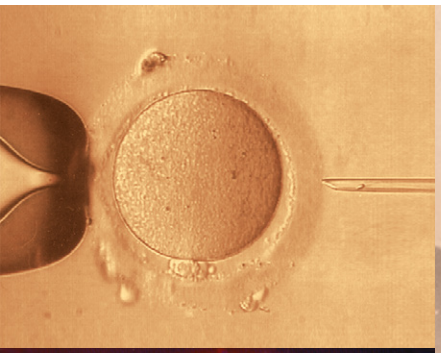

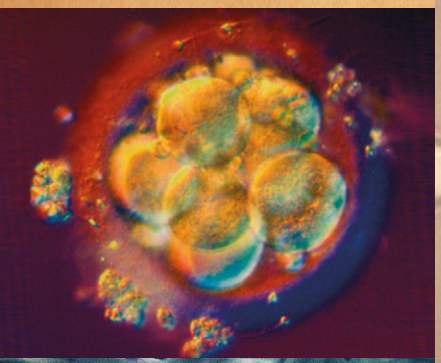

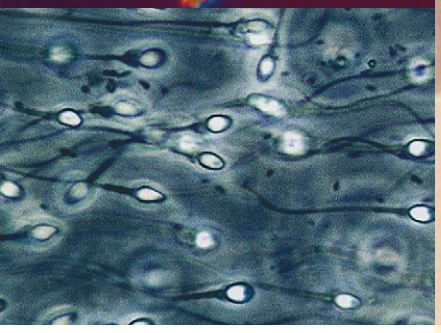

D.I.R-Annual 2009

Bühler K, Bals-Pratsch M, Kupka MS

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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.

Correspondence: D·I·R committee's offices, c/o Chamber of Physicians of Schleswig-Holstein, Bismarckallee 8–12, D-23795 Bad Segeberg, Phone 0049 4551/803-147, Fax 0049 4551/803-231, E-Mail: dir@aeksh.org

Contact: Mirja Wendelken, Wolfgang Dahncke, Dr. Valentin Babaev, www.deutsches-ivf-register.de

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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 avaiable

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)

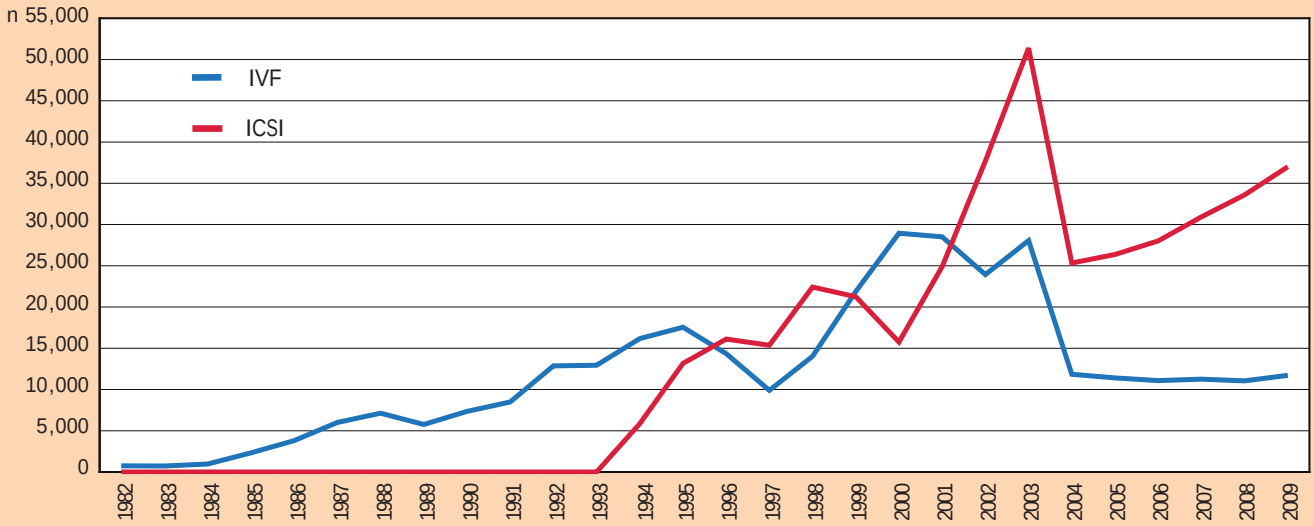
IVF, ICSI, IVF/ICSI, cryo-transfer

	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



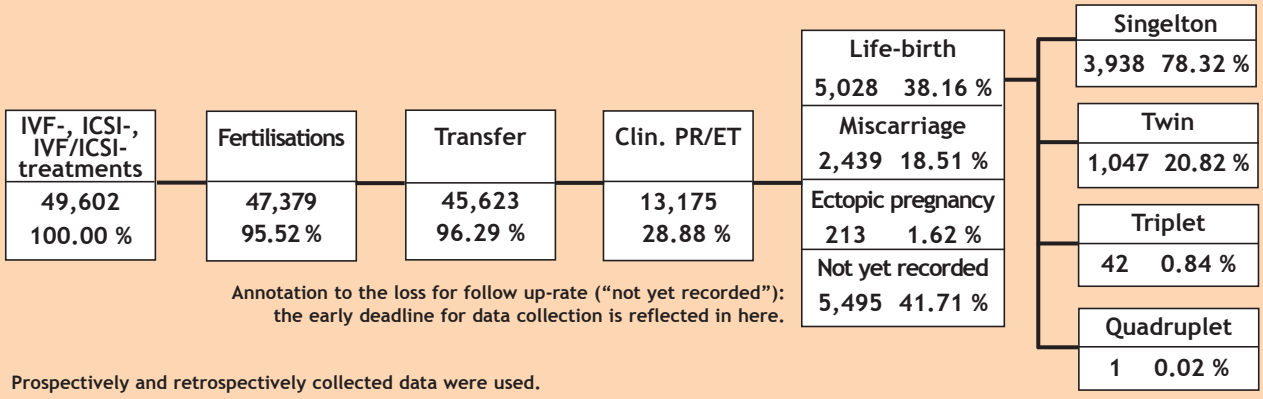
	1982	1986	1990	1994	1996	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
IVF	742	3,806	7,343	16,175	14,344	14,024	21,880	28,945	28,506	23,936	28,058	11,848	11,410	11,082	11,362	11,048	11,715
ICSI				5,856	16,108	22,420	21,244	15,752	24,897	37,692	51,389	25,339	26,370	28,015	31,452	33,591	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



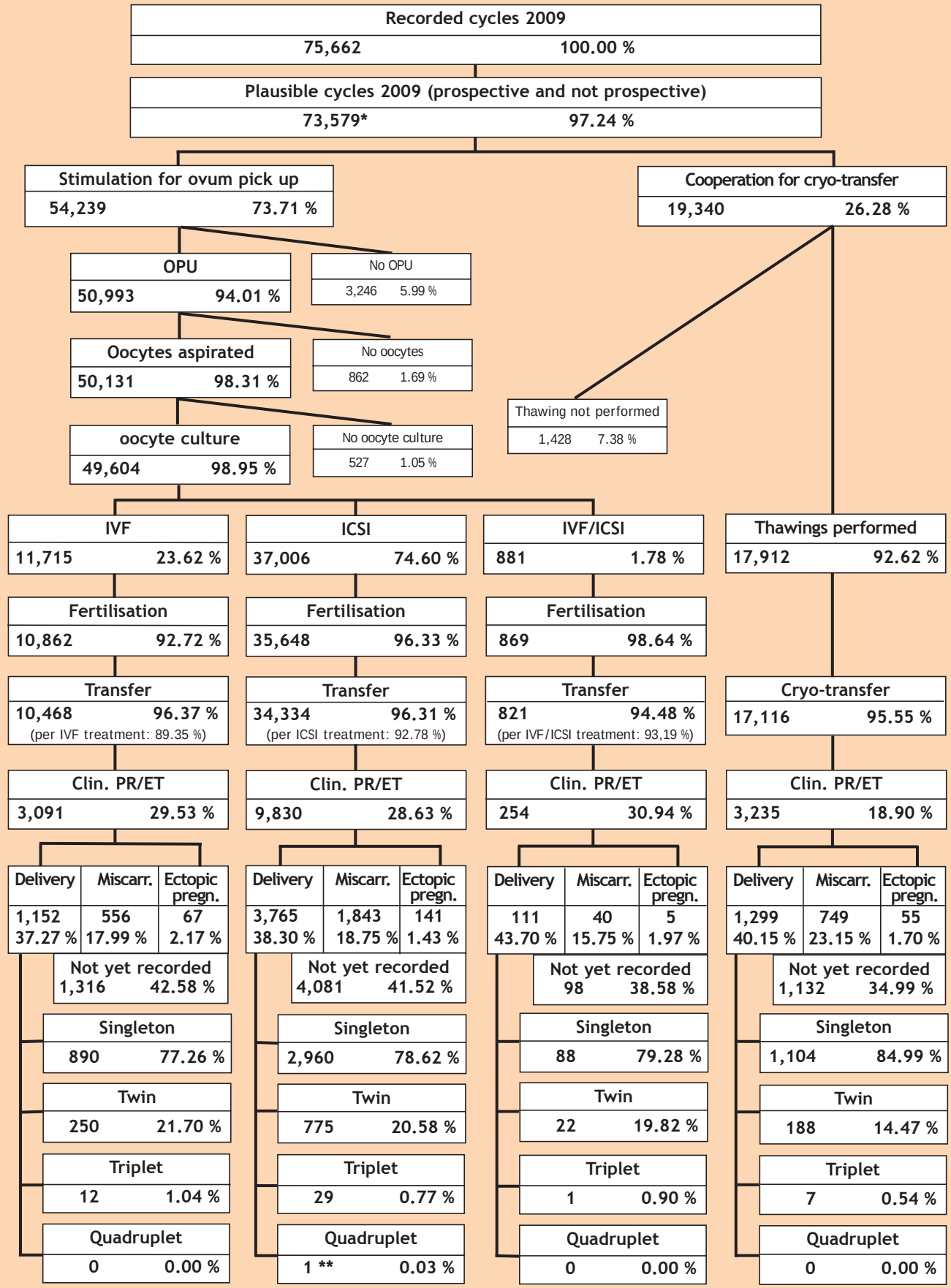
Annotation to the loss for follow up-rate ("not yet recorded"): the early deadline for data collection is reflected in here.

Prospectively and retrospectively collected data were used.

D.I.R. statistics in short 2009

German IVF Registry

status: 19.08.2010



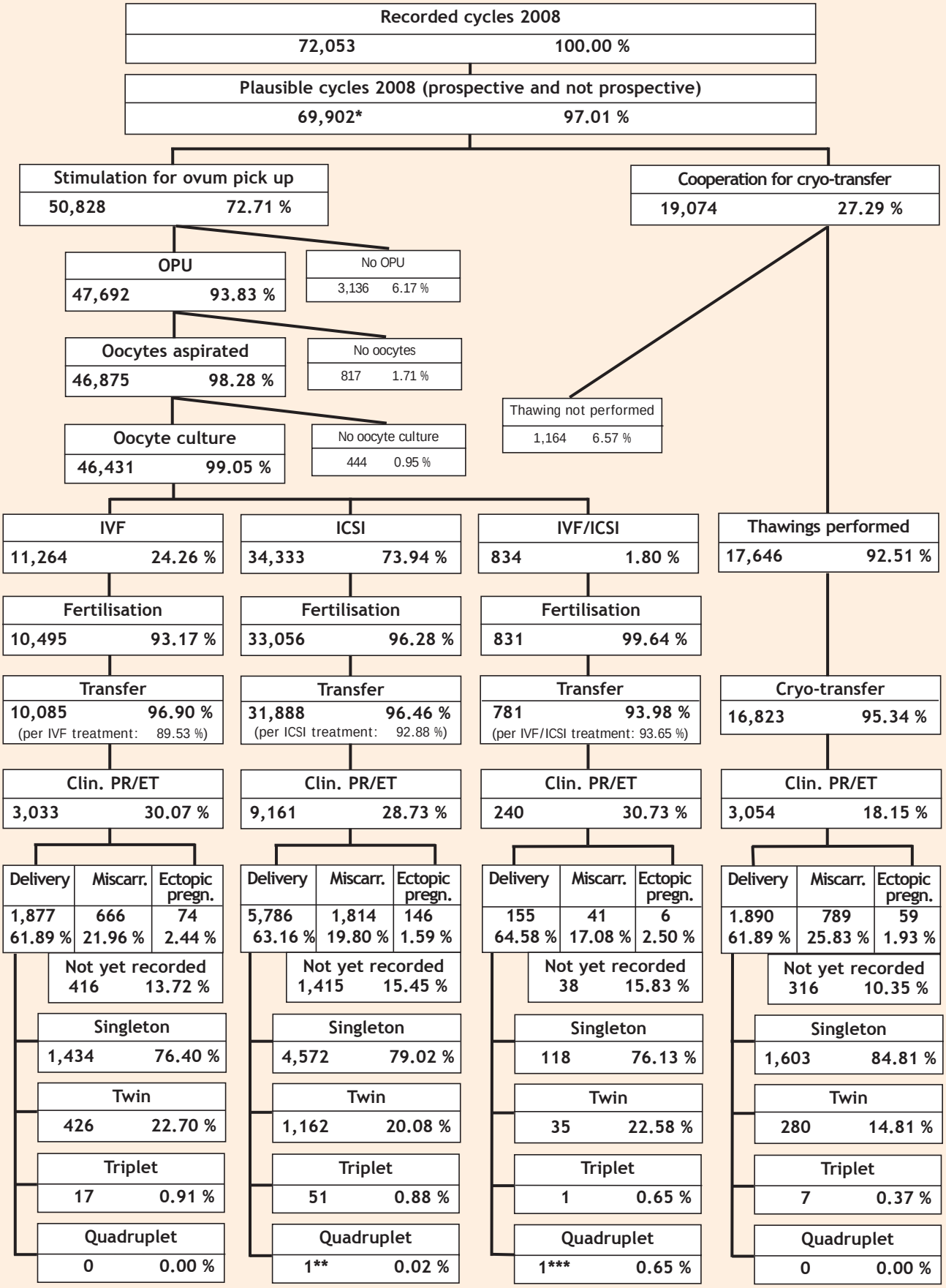
*) 6,063 cases without continued treatment are enclosed

**) 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

Clinical pregnancies, miscarriages, ectopic pregnancies and still births 2008

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

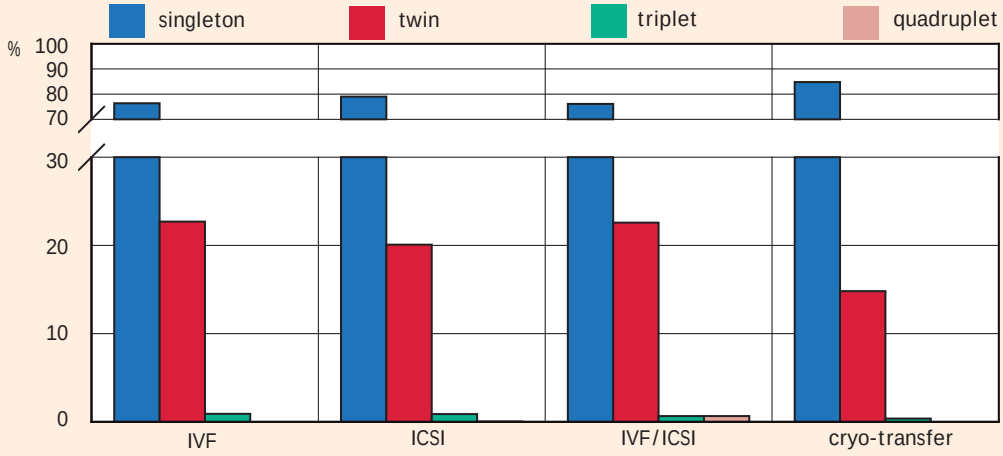
***) Number of deliveries in correlation to the number of treated cycles given in percent

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 2PN 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

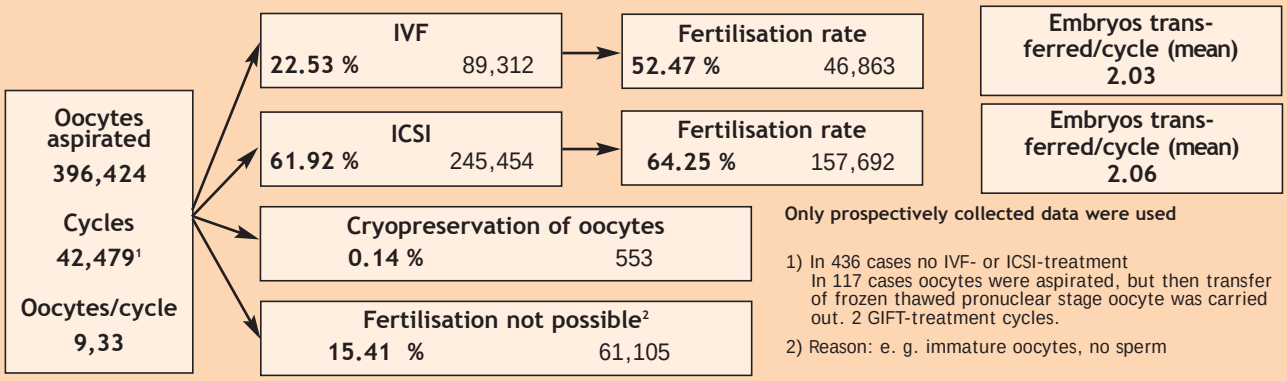
ICSI	Singleton		Twin		Triplet		Quadruplet		Total
	n	%	n	%	n	%	n	%	n
1 embryo	2,339	98.48	36	1.52	0	0.00	0	0.00	2,375
2 embryos	28,459	79.19	7,359	20.48	118	0.33	3	0.01	35,939
3 embryos	9,507	74.22	2,914	22.75	383	2.99	5	0.04	12,809
Total	40,305	78.84	10,309	20.16	501	0.98	8	0,02	51,123

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



Only prospectively collected data were used

1) In 436 cases no IVF- or ICSI-treatment
In 117 cases oocytes were aspirated, but then transfer of frozen thawed pronuclear stage oocyte was carried out. 2 GIFT-treatment cycles.

2) Reason: e. g. immature oocytes, no sperm

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	%	Azoo-spermia	%	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 facotor" 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

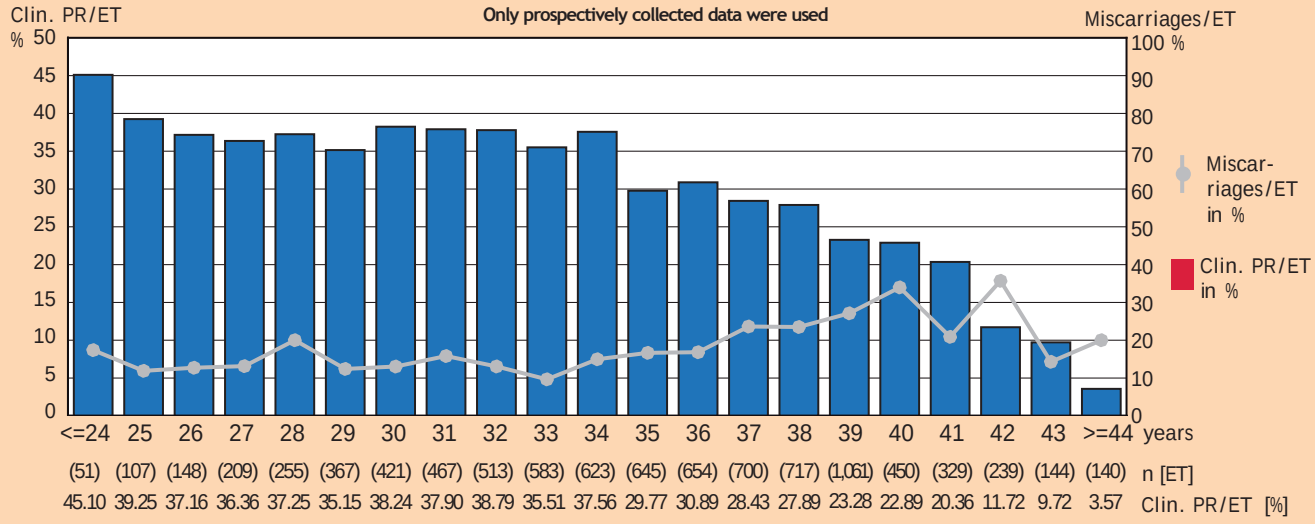
ET from cryo-preserved 2PN 2009

	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

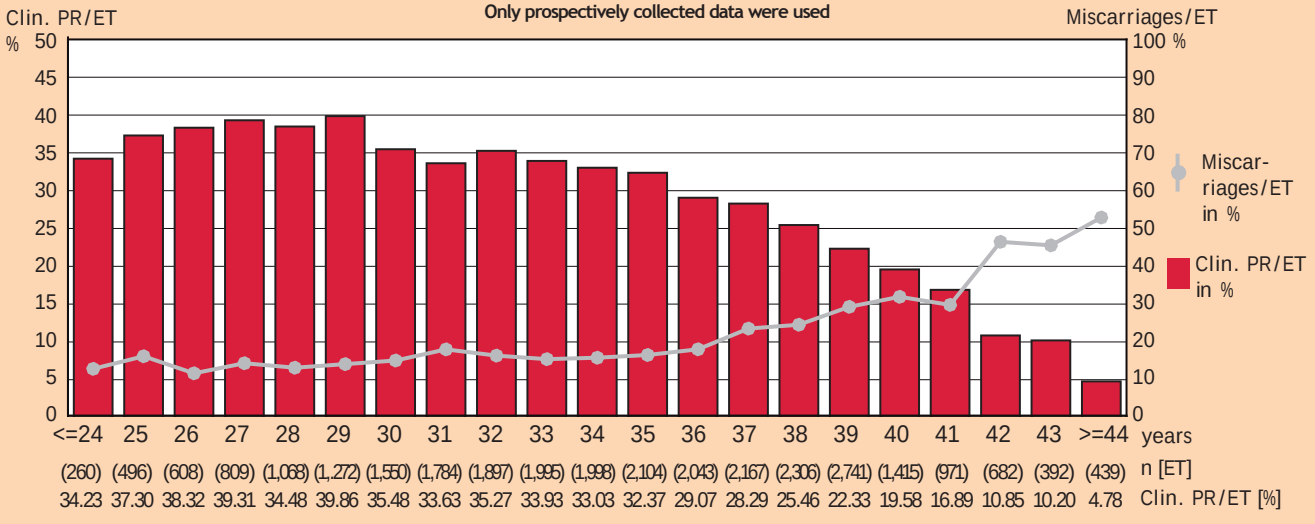


Age in years	OPU	Oocytes (mean)	Insemin. (mean)	ET	ET/OPU %	Transf. Emb. (mean)	Clin. preg.	Clin. PR/ OPU %	Clin. PR/ ET %	Clin. PR/ ET % "ideal" *
<= 29	1,271	10.96	10.70	1,137	89.46	1.95	420	33.04	**36.94**	41.77
30 - 34	2,871	10.03	9.81	2,607	90.80	1.99	978	34.06	**37.51**	41.74
35 - 39	4,251	8.09	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 transfered 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 transfered 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.

Clinical pregnancy rates as a function of the stimulation protocol

IVF, ICSI 2009

- 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 -

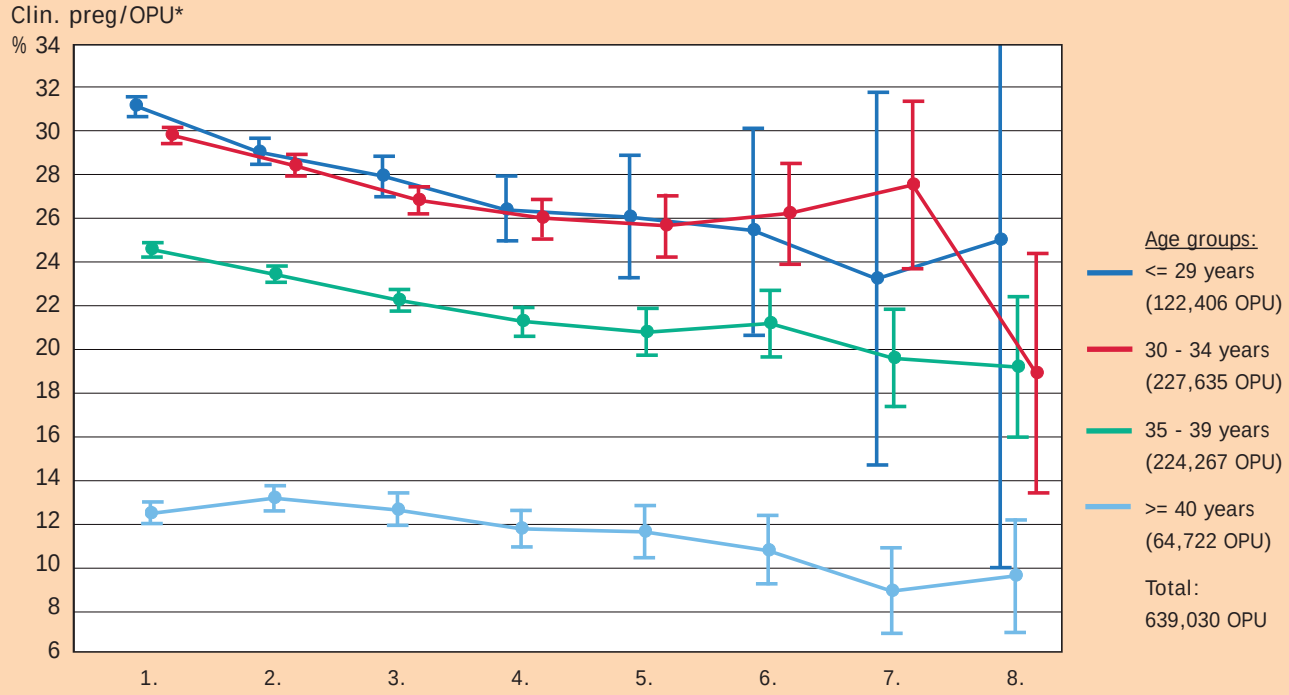
	U-FSH	rec-FSH	hMG only	rec-LH and rec-FSH	rec-FSH and hMG	Other*	n. a.	Total
short GnRH	64	1,091	867	80	274	79	1	2,456
Transfer rate (%)	92.19	94.59	93.54	87.50	91.97	91.14	0.00	93.48
Clin. PR/ET (%)	11.86	25.39	23.18	24.64	17.06	18.06	0.00	23.06
long GnRH	110	8,594	2,707	1,374	2,720	256	20	15,781
Transfer 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



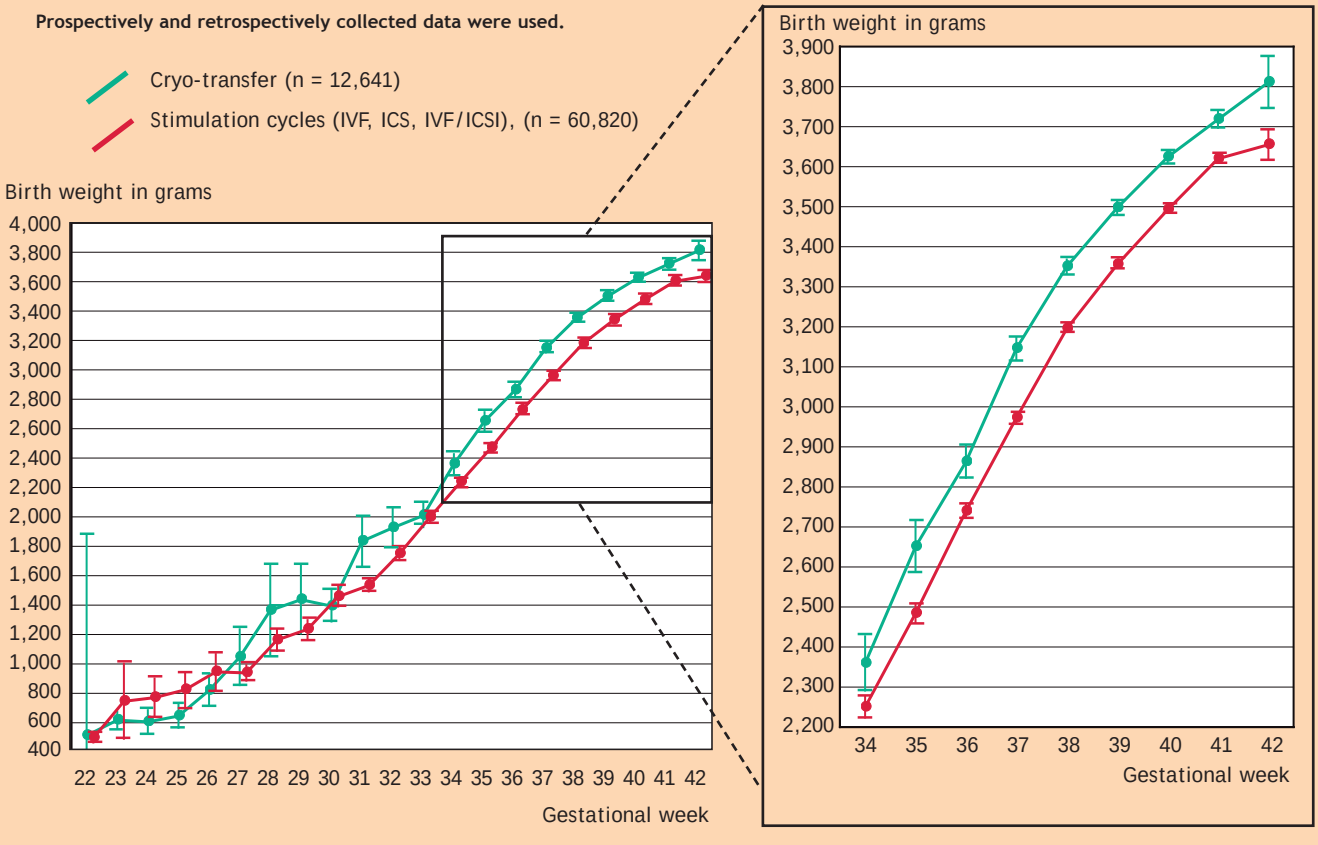
*) Clin. preg. rate/OPU for women in an certain age group at n. OPU (IVF, ICSI, IVF/ICSI). For example: All women between 35 and 39 years old, which did a fifth treatment cycle with OPU, had an average pregnancy rate of 20.7 % per cycle.

Prospectively and retrospectively collected data were used.

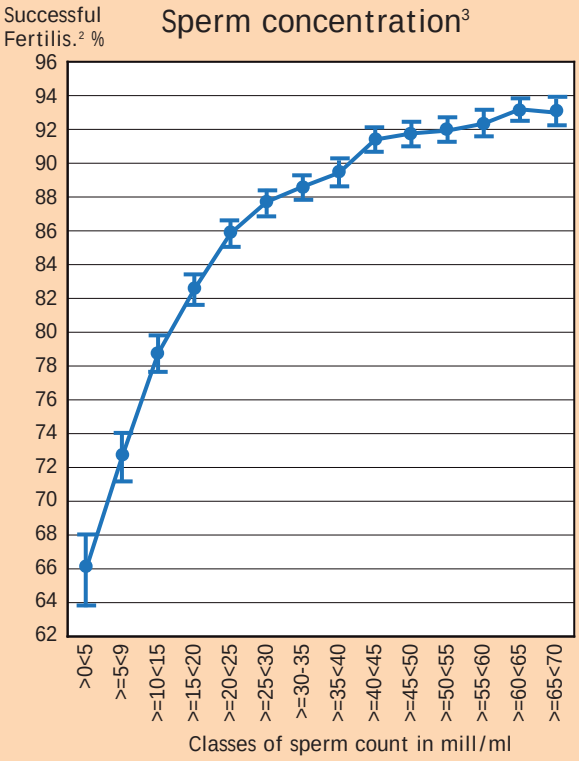
Birth weight of singletons as a function of the kind of treatment

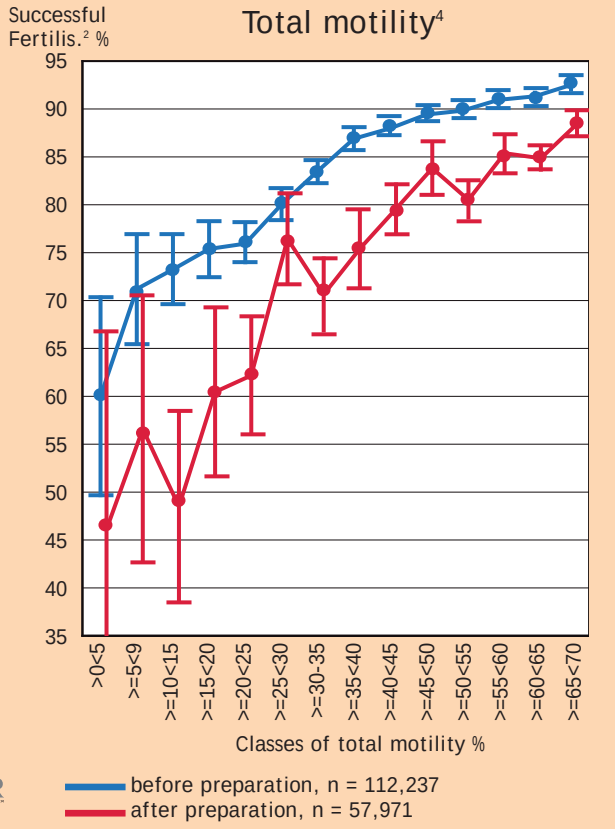
2000 - 2009

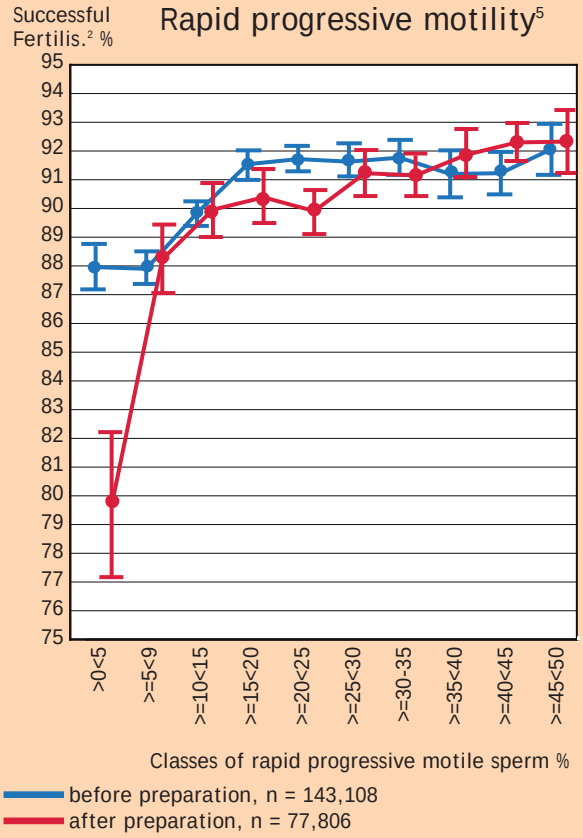
Prospectively and retrospectively collected data were used.

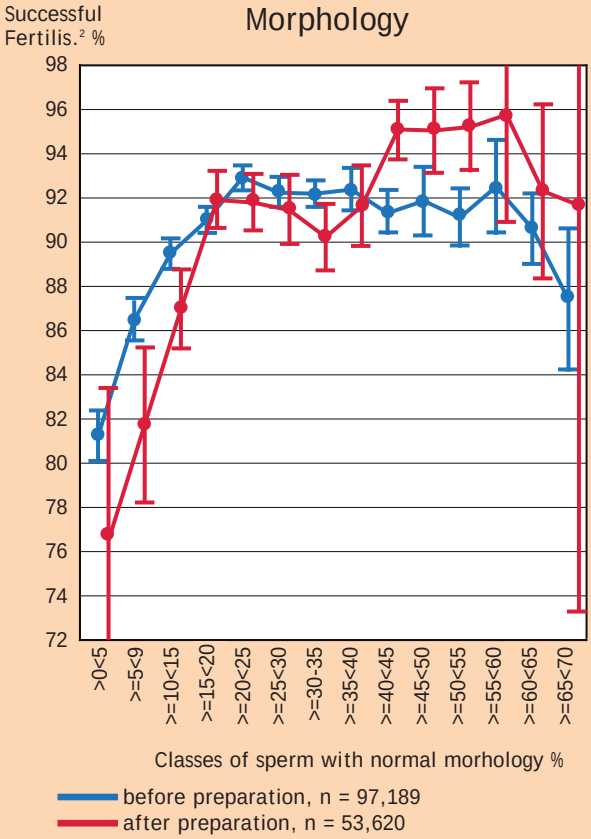


Successful fertilisation per treatment cycle as a function of semen analysis before and after sperm preparation, 2000 - 2009[1]







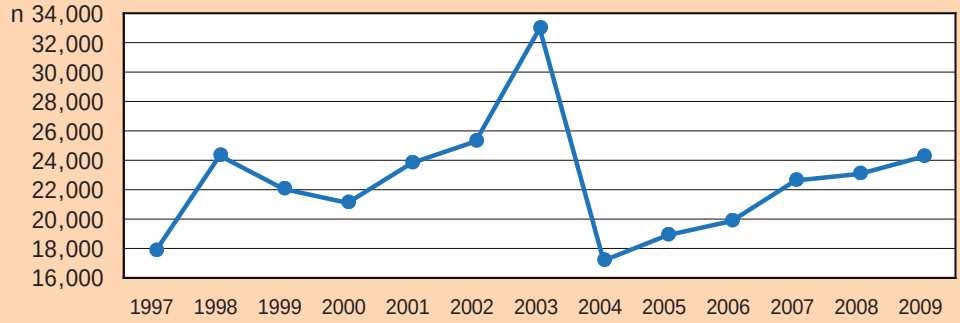


1) total 166,478 treatment cycles
2) Successful fertilisation of at least one oocyte per cycle
3) there are no reference values for sperm count after sperm preparation
4) WHO A,B,C according to WHO Laboratory manual, fourth edition
5) WHO A according to WHO Laboratory manual, fourth edition

Prospectively and retrospectively collected data were used.

Number of initial treatment cycles per year

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



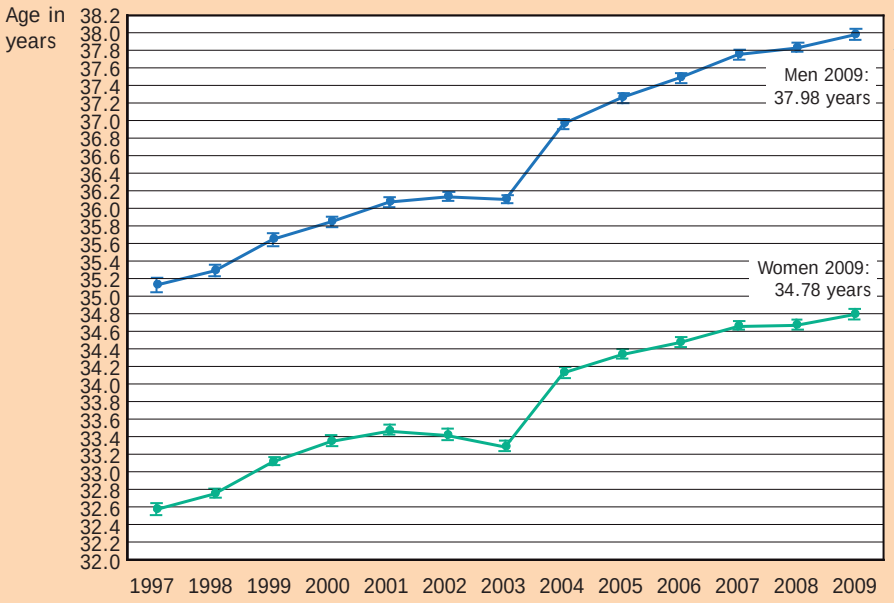
n = Number of women undergoing their treatment cycle in this year

*) 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

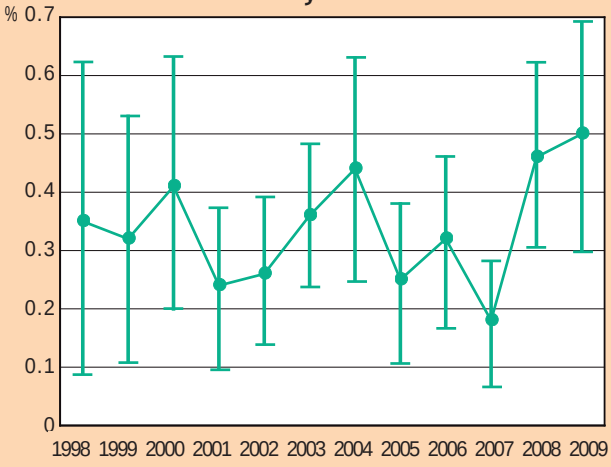
: 95 % confidence interval. (For instance: the CI for women during 1997 describes a probability of 95 % for the mean age of lying between 32.51 and 32.65 years)

Prospectively and retrospectively collected data were used.

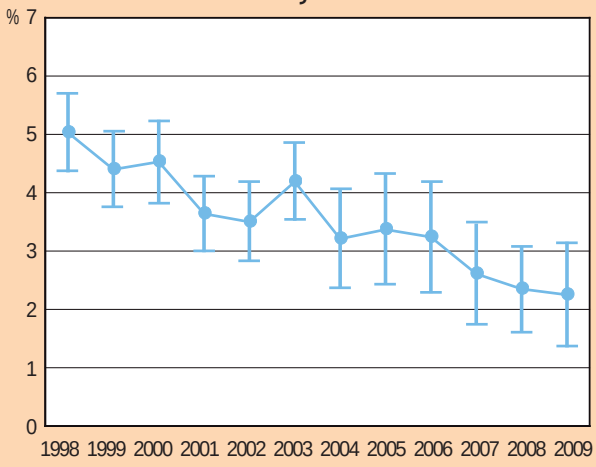
Triplet births: incidence after two and three embryos transferred

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

Triplet births: incidence after 2 embryos transferred



Triplet births: incidence after 3 embryos transferred



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	57.50	1,412	33,64	360	8.58	12	0.29	4,198
*	(2,406)	(57,79)	(1,394)	(33,49)	(351)	(8.43)	(12)	(0.29)	(4,163)
1998	4,892	57.63	2,916	34.35	681	8.02	0	0.00	8,489
*	(4,867)	(57.90)	(2,882)	(34.29)	(657)	(7.82)	(0)	(0.00)	(8,406)
1999	5,472	59.30	3,172	34.38	579	6.28	4	0.04	9,227
*	(5,438)	(59.55)	(3,130)	(34.28)	(560)	(6.13)	(4)	(0.04)	(9,132)
2000	5,418	59.01	3,242	35.31	513	5.59	8	0.09	9,181
*	(5,402)	(59.29)	(3.200)	(35.12)	(502)	(5.51)	(7)	(0.08)	(9,111)
2001	6,798	60.89	3,956	35.43	411	3.68	0	0.00	11,165
*	(6,774)	(61.04)	(3,919)	(35.31)	(405)	(3.65)	(0)	(0.00)	(11,098)
2002	7,746	62.59	4,256	34.39	366	2.96	8	0.06	12,376
*	(7,724)	(62.78)	(4,210)	(34.22)	(362)	(2.94)	(7)	(0.06)	(12,303)
2003	10,723	62.13	5,960	34.53	552	3.20	24	0.14	17,259
*	(10,688)	(62.78)	(5,866)	(34.22)	(533)	(2.94)	(24)	(0.14)	(17,111)
2004	5,368	63.69	2,826	33.53	234	2.78	0	0.00	8,428
*	(5,352)	(62.46)	(2,801)	(34.28)	(223)	(3.11)	(0)	(0.00)	(8,376)
2005	5,527	63.84	2,936	33.91	183	2.11	12	0.14	8,658
*	(5,515)	(63.90)	(2,906)	(33.44)	(179)	(2.66)	(11)	(0.13)	(8,611)
2006	5,906	65.50	2,922	32.41	189	2.10	0	0.00	9,017
*	(5,894)	(64.05)	(2,890)	(33.75)	(174)	(2.08)	(0)	(0.00)	(8,958)
2007	6,611	64.50	3,488	34.03	147	1.43	4	0.04	10,250
*	(6,578)	(64.64)	(3,455)	(33.95)	(140)	(1.38)	(4)	(0.04)	(10,177)
2008	6,359	63.72	3,400	34.07	213	2.13	8	0.08	9,980
*	(6,337)	(63.93)	(3,360)	(33.89)	(208)	(2.10)	(8)	(0.08)	(9,913)
2009	4,075	63.94	2,168	34.02	126	1.98	4	0.06	6,373
*	(4,051)	(64.00)	(2,150)	(33.97)	(125)	(1.97)	(4)	(0.06)	(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)

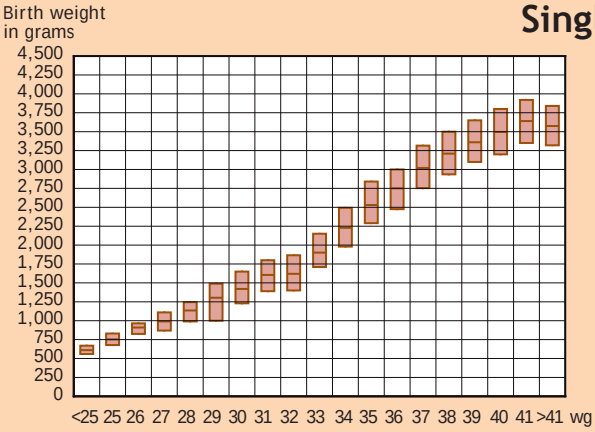
Total (IVF, ICSI, IVF/ICSI, cryo-transfer)

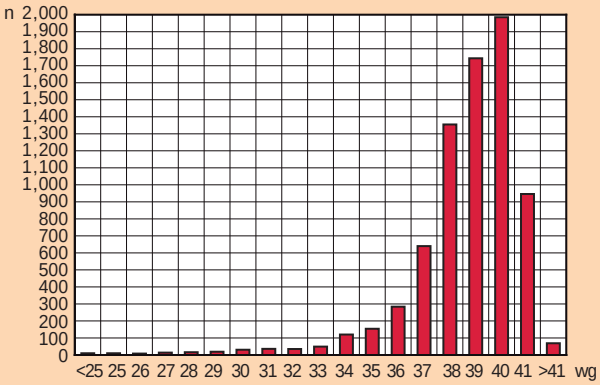
	Singleton		Twin		Triplet		Quadruplet		Total
	n	%	n	%	n	%	n	%	n
1997	2,603	58.57	1,454	32.72	375	8.44	12	0.27	4,444
*	(2,593)	(58.84)	(1,436)	(32.58)	(366)	(8.30)	(12)	(0.27)	(4,407)
1998	5,400	58.68	3,094	33.62	708	7.69	0	0.00	9,202
*	(5,372)	(58.94)	(3,058)	(33.55)	(684)	(7.50)	(0)	(0.00)	(9,114)
1999	6,175	60.55	3,408	33.42	612	6.00	4	0.04	10,199
*	(6,137)	(60.80)	(3,362)	(33.31)	(591)	(5.85)	(4)	(0.04)	(10,094)
2000	6,207	60.46	3,524	34.32	528	5.14	8	0.08	10,267
*	(6.189)	(60.72)	(3,479)	(34.13)	(517)	(5.07)	(7)	(0.07)	(10,192)
2001	7,795	62.20	4,288	34.21	450	3.59	0	0.00	12,533
*	(7,764)	(62.33)	(4,248)	(34.10)	(444)	(3.56)	(0)	(0.00)	(12,456)
2002	8,930	63.84	4,662	33.33	387	2.77	8	0.06	13,987
*	(8,902)	(64.02)	(4,615)	(33.19)	(382)	(2.75)	(7)	(0.05)	(13,906)
2003	11,922	63.16	6,334	33.55	597	3.16	24	0.13	18,877
*	(11,887)	(63.48)	(6,237)	(33.31)	(578)	(3.09)	(24)	(0.13)	(18,726)
2004	6,891	65.63	3,336	31.77	273	2.60	0	0.00	10,500
*	(6,869)	(65.81)	(3,306)	(31.68)	(262)	(2.51)	(0)	(0.00)	(10,437)
2005	7,038	65.76	3,440	32.14	213	1.99	12	0.11	10,703
*	(7,020)	(65.93)	(3,408)	(32.01)	(209)	(1.96)	(11)	(0.10)	(10,648)
2006	7,419	66.87	3,450	31.10	222	2.00	4	0.04	11,095
*	(7,402)	(67.14)	(3,417)	(30.99)	(202)	(1.83)	(4)	(0.04)	(11,025)
2007	8,346	66.30	4,058	32.24	180	1.43	4	0.03	12,588
*	(8,305)	(66.40)	(4,025)	(32.18)	(173)	(1.38)	(4)	(0.03)	(12,507)
2008	8,036	65.47	3,994	32.54	237	1.93	8	0.07	12,275
*	(8,010)	(65.71)	(3.943)	(32.35)	(229)	(1.88)	(8)	(0.07)	(12,190)
2009	5,205	65.77	2,558	32.32	147	1.86	4	0.05	7,914
*	(5,175)	(65.81)	(2,538)	(32.28)	(146)	(1.86)	(4)	(0.05)	(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*

Singleton 2008



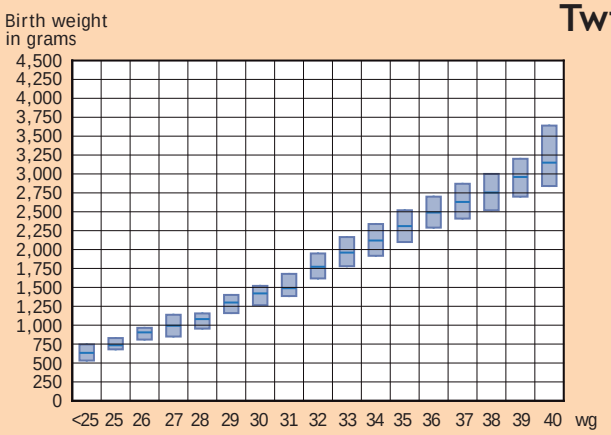


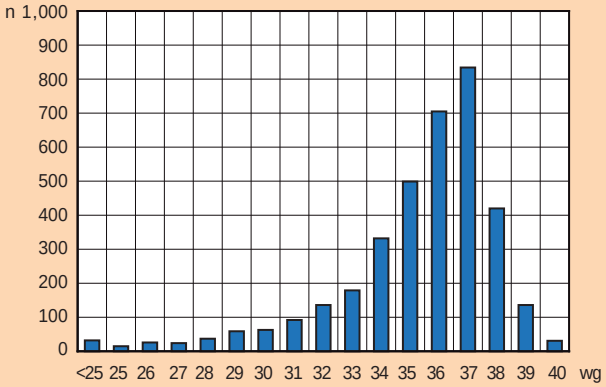
wg	< 25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	> 41	total*
n	10	10	8	14	16	19	31	36	35	49	120	154	284	640	1,355	1,744	1,985	946	69	7,525
bw Q 25	560	678	825	870	990	1,000	1,230	1,390	1,400	1,710	1,980	2,290	2,475	2,753	2,935	3,100	3,200	3,350	3,320	2,980
bw median	610	753	910	990	1,135	1,304	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 %

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

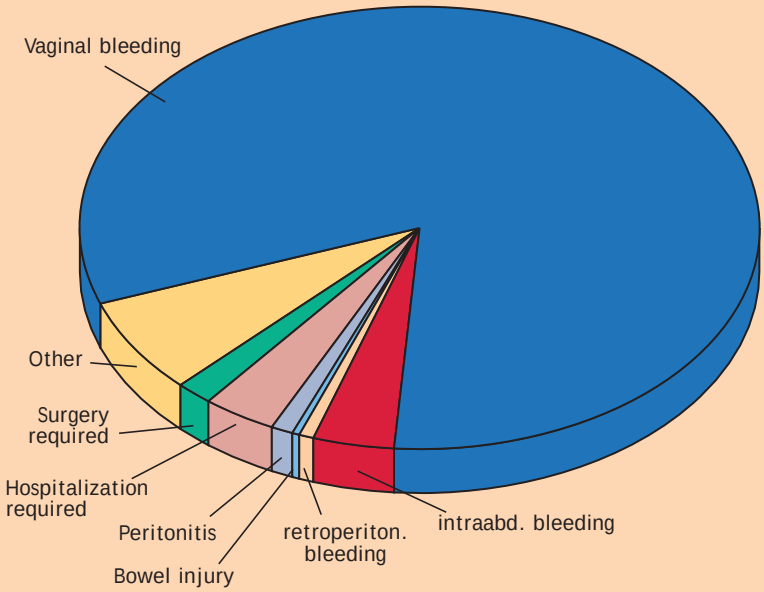
p25 = 30. wg **p50 = 32. wg** **p75 = 34. wg**

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 OPUs	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)

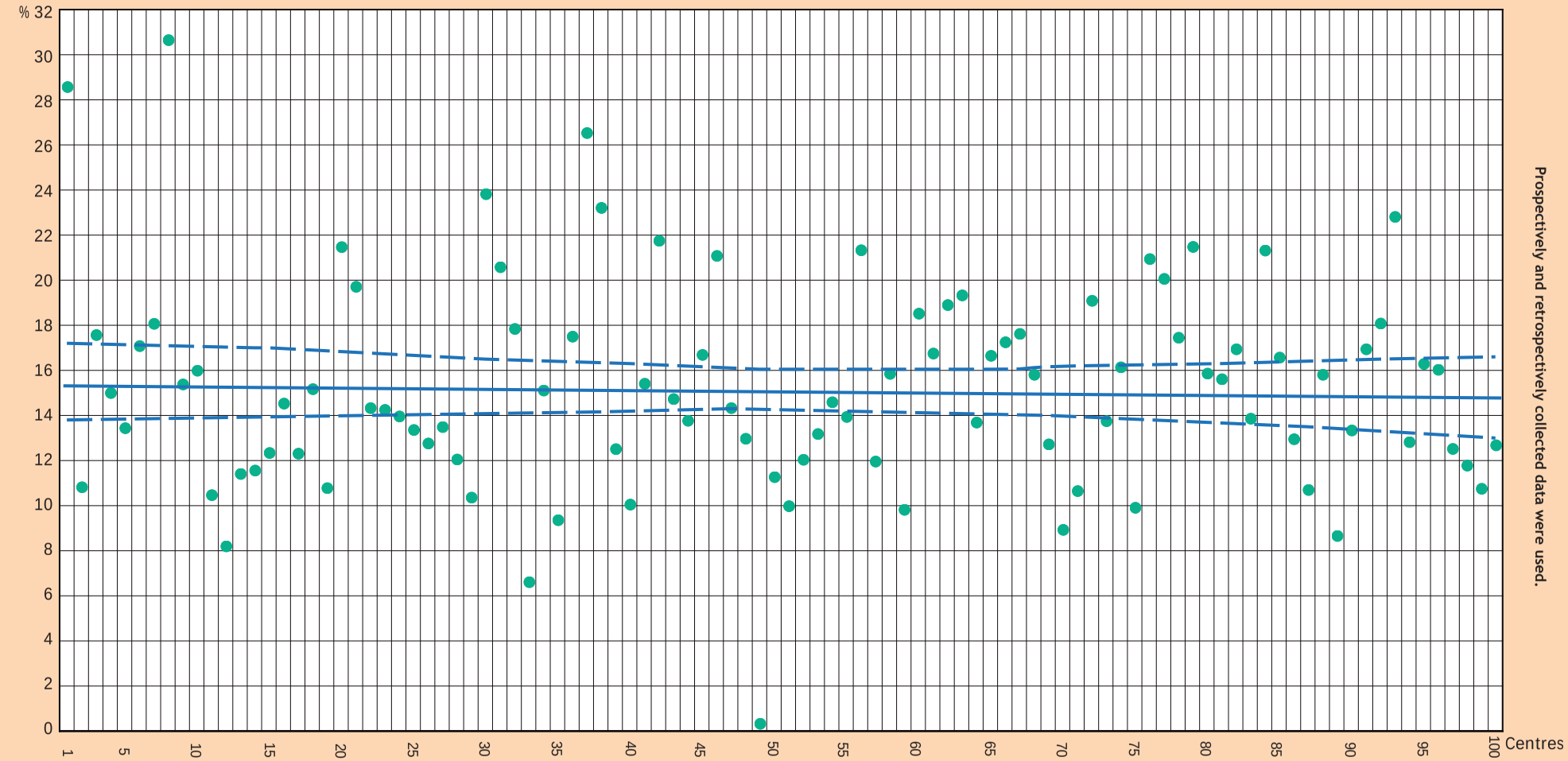
Base: 100 largest centres with at least 1,000 stimulation cycle transfers (IVF, ICSI, IVF/ICSI) in 10 years, arranged from left (1) to right (100) size ascending (= number of stimulation cycle transfers)

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 positionig a best-fitting line in a scatter plot so that the mean square aviation 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.



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)

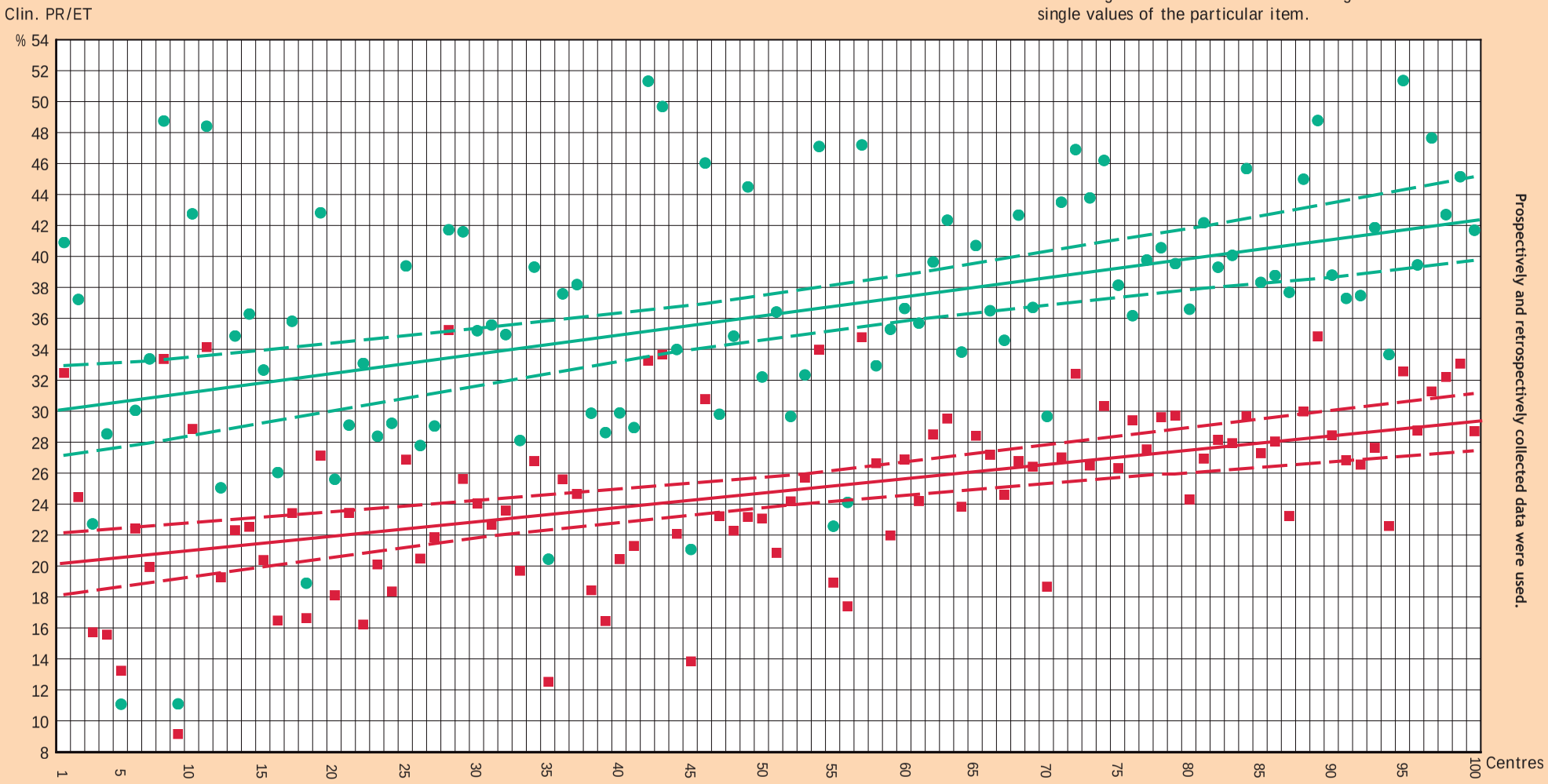
- Women with “ideal prognosis”
- Remaining women

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 positionig a best-fit line in a scatter plot so that the mean square aviation 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.



Centres reporting to the German IVF Registry

in 2009

Praxisklinik
Dr. med. Hans-Jürgen Held
Prager Str. 8a
01069 Dresden
Tel. 0351/501 400 0, Fax -501 400 28
info@ivf-dresden.de
www.ivf-dresden.de

Universitätsklinikum Carl Gustav Carus Dresden - Klinik und Poliklinik für Frauenheilkunde und Geburtshilfe
Prof. Dr. med. W. Distler,
Dr. rer. nat. G. Keck, Dr. med. E. Gruma
Fetscherstr. 74
01307 Dresden
Tel. 0351/458-4587, Fax -458-5351
gyn-LaborIVF@uniklinikum-dresden.de
http://frauen.uniklinikum-dresden.de

Universitätsfrauenklinik, Zentrum für Reproduktionsmedizin, Gynäkologische Endokrinologie und Sexualmedizin
Prof. Dr. med. H. Alexander,
Doz. Dr. med. D. Baier, Dipl.-Biol. W. Weber
Liebigstr. 20 A
04103 leipzig
Tel. 0049-341/97 23 410, Fax -97 23 509
Henry.alexander@medizin.uni-leipzig.de
www.reproduktionsmedizin-leipzig.de

Kinderwunschzentrum Leipzig – Chemnitz
Dres. F. A. Hmeidan, P. Jogschies,
D. Geistert, L. Shugair, A. Lahl
Goldschmidtstr. 30
04103 Leipzig
Tel. 0341/14120-0, Fax -14120-81
info@IVF-Leipzig.de
www.ivf-leipzig.de

Kinderwunschzentrum Praxisklinik City Leipzig, Standort Leipzig, überörtliche Berufsausübungsgemeinschaft
Dr. med. Astrid Gabert,
Dr. med. Katharina Bauer,
Dr. med. Georg Saager,
Dr. rer. nat. Stefanie Breuer (Biologin)
Petersstr. 1
04109 Leipzig
Tel. 0341/215855-0, Fax -215855-17
info@ivf-city-leipzig.de
www.praxisklinik-city-leipzig.de

Zentrum für Reproduktionsmedizin und Andrologie (ZRA)
Universitätsklinikum Halle (Saale)
Univ.-Prof. Dr. med. Hermann M. Behre,
Dr. med. Petra Kaltwaßer,
Dr. rer. nat. Ewald Seliger
Ernst-Grube-Str. 40
06120 Halle (Saale)
Tel. 0345/55747-82 Fax -55747-88
ZRA@medizin.uni-halle.de

Reproduktionsmedizinisches Zentrum Jena
Priv.-Doz. Dr. med. habil. Heidi Fritzsche,
Dipl.-med. Jens-Peter Reiher,
Dr. med. Angela Hoffmann
Markt 4
07743 Jena
Tel. 03641/8296-80, Fax -8296-81
Dr.H.Fritzsche@t-online.de
www.kinderwunschnet.de

Universitätsfrauenklinik Jena
Prof. Dr. med. Jürgen Weiss,
Dr. rer. nat. Ines Hoppe
Bachstr. 18
07743 Jena
Tel. 03641/933 529, Fax -933 191
ines.hoppe@med.uni-jena.de
www.uniklinikum-jena.de

Kinderwunschzentrum Leipzig - Chemnitz
Dres. F. A. Hmeidan, P. Jogschies,
D. Geistert, L. Shugair, A. Lahl
Jakobikirchplatz 4
09111 Chemnitz
Tel. 0371/503 4980, Fax -503 49881
info@ivf-chemnitz.de
www.ivf-chemnitz.de

Kinderwunschzentrum Praxisklinik City Leipzig, Standort Chemnitz, überörtliche Berufsausübungsgemeinschaft
Dr. med. Astrid Gabert,
Dr. med. Katharina Bauer,
Dr. med. Georg Saager
Flemmingstr. 2a
09116 Chemnitz
Tel. 0371/433 130 0, Fax -433 130 17
info@kinderwunschzentrum-chemnitz.de
www.praxisklinik-city-leipzig.de

Dr. med. B. Pfüller, Dr. med. J. Bartley,
Dr. med. I. Scheiber,
Dr. rer. nat. H. Schmiady
Universitätsmedizin Berlin
Charité - Kinderwunschzentrum
Charitéplatz 1
10098 Berlin

Praxisklinik für Fertilität
Dr. med. Peter Sydow/Dr. med. David J. Peet
Dr. med. Carmen Sydow,
Dr. med. Ulrike Bergmann-Hensel
Kronenstr. 55 – 58
10117 Berlin

Kinderwunschzentrum Berlin
Akadem. Lehrpraxis der Charité Universitätsmedizin
Frauenärztliche Gemeinschaftspraxis
Dr. med. Reinhard Hannen,
Dr. med. Christian F. Stoll
Landgrafenstr. 14
10787 Berlin
Tel. 030/263 983 0, Fax -263 983 99
info@kinderwunschzentrum.de
www.kinderwunschzentrum.de

Arbeitsgruppe Endokrinologie & Reproduktionsmedizin im Lützow Center
Dr. med. Detlef H. G. Temme & Kollegen
Wichmannstr. 5
10787 Berlin
Tel. 030/230998-0, Fax -230998-30
dr.temme@ivf-berlin.de
www.ivf-berlin.de

Kinderwunschzentrum an der Gedächtniskirche
Dr. Matthias Bloechle, Dr. Silke Marr
in Praxisgemeinschaft m. d. Gemeinschaftspraxis Dr. Hanadi Awwadeh, Dr. Anja Mutz
in Praxisgemeinschaft mit der Gemeinschaftspraxis Dr. Birgit Roth, Carola Kadgien
Rankestr. 34
10789 Berlin
Tel. 030/219092-0, Fax -219092-99
ivf@Kinderwunsch-berlin.de
www.kinderwunsch-berlin.de

Kinderwunschzentrum FERA im Wenckebach-Klinikum
Dr. Andreas Jantke, Dr. Sofia Spindeldreher,
Dr. Anna Stegelmann, Dr. Manzoor Nowshari
Wenckebachstr. 23
12099 Berlin
Tel. 030/7600 70 130, Fax -7600 70 160
Kinderwunsch@fera-berlin.de
www.kinderwunsch-ivf-berlin.de

Kinderwunschzentrum am Innsbrucker Platz Berlin
Babette Remberg,
Dr. med. Susanne Tewordt-Thyselius,
Gyn. Endokrinologie u. Reproduktionsmedizin
Hauptstr. 65
12159 Berlin
Tel. 030/857 57 930, Fax -857 57 935
praxis@kinderwunsch-berlin.de
www.kinderwunschpraxis-berlin.de

Frauenarztpraxis Kinderwunschzentrum Helle Mitte Berlin
Stendaler Str. 24
12627 Berlin
Tel. 030/9927790, Fax -99277922
info@berliner-kinderwunsch.de

Fertility Center Berlin
Prof. Dr. med. H. Kentenich,
Dr. med. A. Siemann, Dr. med. G. Stief,
Dr. med. A. Tandler-Schneider
Spandauer Damm 130
14050 Berlin
Tel. 030/303 54 937, Fax -303 54 939
info@fertilitycenterberlin.de
www.fertilitycenterberlin.de

Kinderwunschzentrum Neubrandenburg
Prof. Dr. med. Roland Sudik,
Dr. med. Konstanze Kissing-Pahl
S.-Allende-Str. 30
17036 Neubrandenburg
Tel. 0395/775 27 94, Fax -775 27 93
gyn@dbknb.de

Praxiszentrum Frauenheilkunde
PD Dr. med. H. Müller, A. Busecke, A. Bossow
Südring 81
18059 Rostock
Tel. 0381/440120-30, Fax -440120-31
info@ivf-rostock.de
www.ivf-rostock.de

MVZ Fertility Center Hamburg GmbH
Dr. R. Fischer
Speersort 4
20095 Hamburg
Tel. 040/308 045 30
Rfischer@fertility-center-hh.de
www.fertility-center-hh.de

Kinderwunschzentrum Altonaer Straße
GMP Dres. med. Bispink, Horn, Michel u. Partner
Dr. Bispink, Dr. Horn, Dr. Michel,
Dr. Gohmann, Dr. Aytekin, Dr. Acar-Nosit
Altonaer Str. 59
20357 Hamburg
Tel. 040/306836-0, Fax -306836-69
info@ivf-hamburg.de
www.ivf-hamburg.de

Kinderwunschzentrum Fleetinsel Hamburg
Dr. med. Semsettin Kocak,
Dr. med. Peter List, Dr. med. Uwe Weidner,
Admiralitätstr. 4
20459 Hamburg
Tel. 040/386 055 50, Fax -386 055 51
info@Kinderwunschzentrum-hamburg.de
www.kinderwunschzentrum-hamburg.de

Endokrinologikum Hamburg
Zentrum für Hormon- und Stoffwechsel-erkrankungen, Reproduktionsmedizin und Pränatale Medizin
Lornsenstraße 4 - 6
22767 Hamburg
Tel. 040/306 28-200, Fax -306 28-349
michael.ludwig@endokrinologikum.com
www.endokrinologikum.com

UKL-Universitäres Kinderwunschzentrum Lübeck, Zentrum für Reproduktions-medizin und Gynäkologische Endokri-nologie am Universitätsklinikum Schleswig-Holstein, MVZ
Ambulanzzentrum des UK-SH GmbH
Prof. Dr. med. G. Griesinger,
Priv. -Doz. Dr. med. A. Schultze-Mosgau,
Prof. Dr. med. K. Diedrich
Ratzeburger Allee 160
23538 Lübeck
Tel. 0451/500-4418, Fax -500-5764
kinderwunsch@uk-sh.de
www.kinderwunsch-luebeck.de

fertilitycenterkiel
Priv.-Doz. Dr. Sören von Otte,
Dr. Volker Schulz, Dr. Martin Völckers,
Dr. Heike Eckel
Prüner Gang 15
24103 Kiel
Tel. 0431/97413 33, Fax -97413 22
info@fertilitycenter.de
www.fertilitycenter.de

Kinderwunschzentrum am UK-SH, Campus Kiel
Dr. Andreas Schmutzler,
Prof. Dr. Ali Salmassi
Arnold-Heller-Str. 3, Haus 24
24105 Kiel
Tel. 0431/597 20 83, Fax -597 53 52
www.kinderwunschunikiel.de

Kinderwunsch Kiel
Dr. med. K. Brandenburg,
Dr. sc. agr. A. Bonhoff,
Dr. med. A. Carstensen
Im Brauereiviertel 5
24118 Kiel
Tel. 0431/553 433, Fax 0431/519 27 45
info@Kinderwunschkiel.de
www.kinderwunschkiel.de

Team Kinderwunsch Oldenburg
Dr. med. Saif Jibril,
Dr. med. Gerhard Pohlig
Fachärzte für Frauenheilkunde und Geburtshilfe
Wilhelmstr. 5
26121 Oldenburg
Tel 0441/248 9091, Fax - 248 9088
tko@telemed.de
www.teamkinderwunsch.info

Tagesklinik Oldenburg
Zentrum für Kinderwunschbehandlung
Dr. med. Jörg Hennefründ,
Dr. med. Heike Boppert (vormals Ochs-Ring),
Dr. med. Michael Heeder
Achternstr. 21
26122 Oldenburg
Tel. 0441/922 700, Fax -922 7028
info@tagesklinik-oldenburg.de

Zentrum für Fortpflanzungsmedizin Leer
Dr. med. Wolfgang von der Burg
Hafenstr. 6d
26789 Leer
Tel. 0491/4542 50, Fax -4542 510
zff-Leer@t-online.de
www.fortpflanzungsmedizinfriesland.de

Kinderwunsch Bremen
Dr. Achim v. Stutterheim, Tanja Finger,
Dr. Susanne Meyer-Ströh
Emmastr. 220
28213 Bremen
Tel. 0421/2249 10, Fax -2249 122
info@Kinderwunschbremen.de
www.kinderwunschbremen.de

Bremer Zentrum f. Fortpflanzungsmedizin (BZF)
Dr. Olaf Drost,
Prof. Dr. Ernst Heinrich Schmidt,
Gröpelinger Heerstr. 406 - 408
28239 Bremen
Tel. 0421/6102-1212, Fax -6102-1213
Info@icsi.de
www.icsi.de

Team Kinderwunsch Hannover
Dr. Saymé und Kollegen
Werner Hoppenstedt
Brühlstr. 19
30169 Hannover
Tel. 0511/3130 95, Fax -3130 96
info@team-kinderwunsch-hannover.de
www.team-kinderwunsch-hannover.de

IVF – Labor Med. Hochschule Hannover
Fr. Dr. Schippert, Fr. Dr. Baßler
Carl-Neuberg-Str. 1
30625 Hannover
Tel. 0511/532 60 99, Fax -532 60 94
schippert.cordula@mh-hannover.de
www.mh-hannover.de

Kinderwunschzentrum Langenhagen - Wolfsburg
Dr. Martina Müseler-Albers,
Horst Peter Arendt, Dr. Klaus Bühler,
Dr. Thilo Schill
Ostpassage 9
30853 Langenhagen
Sauerbruchstr. 7b (Klinikum Wolfsburg)
38440 Wolfsburg
Tel. 0511/97230-0, Fax -97230-18
praxis@kinderwunsch-langenhagen.de
www.kinderwunsch-langenhagen.de

Zentrum für Reproduktionsmedizin u. Humangenetik Hildesheim
Dres. med. Algermissen, Justus, Wilke, Graf
Zingel 29 – 30
31141 Hildesheim
Tel. 05121/20 67 90, Fax -20 67 911
praxis@Kinderwunsch-hildesheim.de
www.kinderwunsch-hildesheim.de

Bispink, Chandra, Breitbach, Hinrichsen, Peper
Deutsche Klinik Bad Münder
Zetrum für Reproduktionsmedizin
MVZ wagnerstibbe GmbH
Hannoversche Str. 24
31848 Bad Münder
Tel. 05042/940 360, Fax -940 308
info@kinderwunsch.com
www.kinderwunsch.com

Zentrum für Kinderwunschbehandlung u. Pränataldiagnostik Minden
Dr. med. Dipl.-Biochem. Onno Buurman,
Dr. med. Michael Dumschat,
Dr. med. Ralf Menkhaus,
Dr. med. Barbara Heidecker -privat-
Artilleriestr. 9a
32427 Minden
Tel. 0571/972 60 0, Fax -972 60 99
Info@Kinderwunsch-minden.net
www.kinderwunsch.net

Bielefelder Institut für Fortpflanzungs-medizin – BIF
Dr. Beate Harms, Dr. Nabaz Baban
Teutoburgerstr. 50
33604 Bielefeld
Tel. 0521/581 32 77, Fax -581 92 95
beate.harms@Klinikumbielefeld.de
www.klinikumbielefeld.de

Bielefeld Fertility Center
Paul A. Ebert, Dr. Karl Völklein,
Beata Szypajlo
Zentrum für Reproduktionsmedizin und Gynäkologische Endokrinologie
Werther Str. 266
33619 Bielefeld
Tel. 0521/10 10 05, Fax –10 10 79
praxis@kinderwunsch-bielefeld.de
www.kinderwunsch-bielefeld.de

MVZ für Reproduktionsmedizin am Klinikum Kassel
Dr. med. Marc Janos Willi,
Dr. med. Oswald Schmidt, Prof. Dr. med. Miguel Hinrichsen
Mönchebergstr. 41 – 43 (Haus 6 B)
34125 Kassel
Tel. 0561/980 29 80, Fax -980 29 81
info@kinderwunsch-kassel.de
www.ivf-kassel.de

Universitätsklinikum Gießen - Marburg GmbH, Standort Marburg
Klinik für Gynäkologie, gyn. Endokrinologie u. Onkologie
Schwerpunkt gyn. Endokrinologie Reproduktionsmedizin und Osteologie
Prof. Dr. med. Peyman Hadji,
Prof. Dr. med. Uwe Wagner,
Dr. med. Volker Ziller
Baldingerstraße
35043 Marburg
Tel. 06421/5864-400, Fax -5864-403
www.repko-ukgm.de

Kinderwunschzentrum Mittelhessen
Dr. med. A. Hajimohammad, B. Oels
Sportparkstr. 9
35578 Wetzlar
Tel. 06441/200 20 20, Fax -200 202 99
info@Kinderwunschzentrum-mh.de
www.kinderwunschzentrum-mh.de

Kinderwunschpraxis Göttingen
Reproduktionsmedizin/Gynäkologische Endokrinologie
Dr. med. Monica Tobler, Jana Rostek
Waldweg 5
37073 Göttingen
Tel. 0551/41 337, Fax -41 722
info@kinderwunsch-praxis-goettingen.de
www.kinderwunsch-praxis-goettingen.de

Georg-August-Universität Göttingen
Prof. Dr. med. Dr. Bernd Hinney,
Prof. Dr. Hans-Wilhelm Michelmann
Robert-Koch-Str. 40
37075 Göttingen
Tel. 0551/39 81 31, Fax -39 65 28
bhinney@med.uni-goettingen.de

Kinderwunschzentrum Göttingen
Dr. Rüdiger Moltrecht, Dr. Sabine Hübner,
Dr. Thomas Welcker, Dr. Filiz Sakin-Kaindl,
Dr. Stephanie Mittmann, Dr. Peter Schulzeck
Kasseler Landstr. 25 A
37081 Göttingen
Tel. 0551/99888-0, Fax -99888-99
info@Kiwu-goettingen.de
www.kiwu-goettingen.de

Kinderwunschzentrum Magdeburg
Dr. med. Ingrid Nickel,
Dr. med. Evelyn Richter
Ulrichplatz 1
39104 Magdeburg
Tel. 0391/81140 90, Fax -85204 29
info@kiwumed.de
www.kinderwunschzentrum-magdeburg.de

Universitätsklinik für Reproduktionsmedizin u. Gyn. Endokrinologie
Prof. Dr. med. J. Kleinstein,
Dr. med. A. B. Brössner
Gerhart-Hauptmann-Str. 35
39108 Magdeburg
Tel. 0391/671 73 90, Fax -671 73 89
juergen.kleinstein@med.ovgu.de
www.med.uni-magdeburg.de/fme/krge

Zentrum für interdisziplinäre Kinderwunschbehandlung Düsseldorf
Dr. M. Scholtes, Ph. D., Dipl.-med. K. Marx,
Priv.-Doz. Dr. med. S. Kißler,
Dr. med. Martina Behler, Dr. med. S. Pfeiffer,
Dr. med. Petra Hubert, Tanja Emde,
Dr. med. Selma Yildirim-Assaf
Völklinger Str. 4 / RWI 4-Haus
40219 Düsseldorf
Tel. 0211/90 197-0, Fax -90 197-50
info@ivf-duesseldorf.de

UniKiD, Universitäres interdisziplinäres Kinderwunschzentrum Düsseldorf
Frauenklinik der Heinrich-Heine-Universität
Prof. Dr. med. Jan-Steffen Krüssel,
Dr. med. Alexandra Hess,
Dr. med. Barbara Mikat-Drozdzynski,
Dr. med. Andrea Schanz,
Dr. rer. nat. Jens Hirchenhain
Moorenstraße 5
40225 Düsseldorf
Tel. 0211/810 40 60, Fax -811 67 87
info@unikid.de
www.unikid.de

Kinderwunschzentrum Mönchengladbach
Dr. med. Georg Döhmen,
Dr. med. Thomas Schalk
Von-Groote-Str. 175
41066 Mönchengladbach
Tel. 02161/49686-0, Fax -49686-19
info@kindwunsch.de
www.kindwunsch.de

green-ivf: Grevenbroicher Endokrinologikum & IVF-Zentrum
Dr. J. Tigges, Dr. K. Friol, PD Dr. C. Gnoth
Rheydter Str. 143
41515 Grevenbroich
Tel. 02181/4915 13, Fax -4915 34
praxis@green-ivf.de
www.green-ivf.de

Institut für Gynäkologische Endokrinologie und Reproduktionsmedizin Remscheid
Dr. med. J. Luckhaus
mail@kinderwunsch-remscheid.de
www.kinderwunsch-remscheid.de

Kinderwunschzentren Dortmund u. Siegen Gemeinschaftspraxis
Prof. Dr. med. Stefan Dieterle,
Dr. med. Andreas Neuer,
Prof. Dr. med. Robert Greb
Olpe 19
44135 Dortmund
Hermelsbacher Weg 41
57072 Siegen
Tel. 0231/557 54 50, Fax -557 54 599
Tel. 0271/7701-810, Fax -7701-8120
info@ivf-dortmund.de
www.ivf-dortmund.de

VITRO-MED
Kinderwunschzentrum Bochum
Yvonne Giesner
Hellweg 2
44787 Bochum
Tel. 0234/155 24, Fax -685 479
info@vitro-med.de
www.vitro-med.de

NOVUM – Zentrum für Reproduktionsmedizin Essen - Duisburg
Prof. Dr. T. Katzorke, Dr. Dirk Propping, Dr. Susanne Wohlers, Prof. Dr. P. Bielfeld
Akazienallee 8-12
45127 Essen
Tel. 0201/294 290, Fax -294 2914
info@ivfzentrum.de
www.ivfzentrum.de

Reprovita, Kinderwunschzentrum Recklinghausen
Kemnastr. 3a
45657 Recklinghausen
Tel. 02361/904 18 80, Fax -904 18 813
info@reprovita.de
www.reprovita.de

Kinderwunschpraxis Gelsenkirchen
Dr. med. Ute Czeromin,
Dr. med. Ina Walter-Göbel
Dr. med. Kathrin Fißeler
Munscheidstrasse 14
45886 Gelsenkirchen
Tel. 0209/167 1470, Fax -167 1471
info@kinderwunsch-gelsenkirchen.de
www.kinderwunsch-gelsenkirchen.de

Fertility Center Münsterland
Dr. med. Ulrich Hilland
Crispinusstr. 12
46399 Bocholt
Tel. 02871/23 943 43, Fax -23 943 44
praxis@fcm-net.de

Kinderwunschzentrum Münster
Dr. Dr. med. L. Belkien,
Dr. med. C. Niehoff
Fachärzte für Frauenheilkunde u. Geburtshilfe, akademische Lehrpraxis,
Hötteweg 5 - 7
48143 Münster
Tel. 0251/482 67 0, Fax -482 67 77
info@Kinderwunschtherapie.de
www.kinderwunschtherapie.de

Kinderwunschsprechstunde Uniklinik Münster - IVF-Bereich
OA Dr. med. Schüring, Prof. Kiesel,
Martina Kreimer, Prof. Kliesch
Domagkstr. 11
48149 Münster
Tel. 0251/83-52410, Fax -83-56497
andreas.schuering@ukmuenster.de
www.klinikum.uni-muenster.de

Zentrum für Kinderwunschbehandlung Osnabrück
Irene Coordes,
Dr. med. Manfred Schneider
Rheiner Landstr. 93 – 95
49078 Osnabrück
Tel. 0541/40 45 00, Fax -40 45 040
info@Kinderwunsch123.de
www.kinderwunsch123.de

Gemeinschaftspraxis
Dr. med. Dieter Struller,
Dr. med. Christof Etien
Graf-Salm-Strasse 10
50181 Bedburg
Tel. 02272/77 78, Fax -77 73
info@Kinderwunsch-erft.de
www.kinderwunsch-erft.de

PAN Institut für Endokrinologie u. Reproduktionsmedizin
Dr. Stefan Palm, Dr. Irene Pütz,
Dr. Mirko Dannhof,
Prof. Dr. Christoph Keck,
Priv.-Doz. Dolores Foth
Zeppelinstr. 1
50667 Köln
Tel. 0221/277 62 00, Fax -277 62 24
repro@pan-Klinik.de
www.fertilitycenter-koeln.de

Uniklinik Köln
Klinik und Poliklinik für Frauenheilkunde und Geburtshilfe
Dr. G. Rahimi, Dr. C. Moers, I. Orth
Kerpener Str. 34
50931 Köln
Tel. 0221/478 4990, Fax -478 86201
gohar.rahimi@uk-koeln.de
www.frauenklinik.uk-koeln.de

Kinderwunschzentrum-Köln
Praxis und Klinik Schoenhauserstraße
Dr. med. Markus Merzenich
Schoenhauser Str. 3
50968 Köln
Tel. 0221/340 3070
mmerzenich@kinderwunschzentrum-koeln.de
Kinderwunschzentrum Köln
Eva Schwahn
Schoenhauser Str. 3
50968 Köln-Beyenthal
Tel. 0221/340 2280
info@wunschkind-koeln.de

Universitäts-Frauenklinik für Gynäkologische Endokrinologie u. Reproduktionsmedizin
Med. Fakultät der RWTH Aachen
Prof. Dr. med. Joseph Neulen,
Dr. med. Benjamin Rösing,
Dr. rer. nat. Ute Weißenborn
Pauwelsstraße 30
52074 Aachen
Tel. 0241/808 8971, Fax -808 2518
gyn-endokrinologie@ukaachen.de
www.gyn-endokrinologie@vkaachen.de

Frauenarztpraxis mit Schwerpunkt Gynäkologische Endokrinologie und Reproduktionsmedizin
Dr. med. Klaus-Michael Grunwald
Eisenhütte 23
52076 Aachen
Tel. 02408/958 499, Fax -958 477
KMAL54@t-online.de

Abteilung für Gynäkologische Endokrinologie und Reproduktionsmedizin
Universitätsklinikum Bonn
Prof. Dr. med. Hans Van der Ven,
Prof. Dr. med. Katrin Van der Ven,
Dr. med. Ulrike Bohlen,
Prof. Dr. rer. nat. Markus Montag
Sigmund-Freud-Str. 25
53105 Bonn
Tel. 0228/2871-9186, Fax -2871-5795
bettina.sander@ukb.uni-bonn.de
www.kinderwunsch-uni-bonn.de

Praxisklinik für gynäkologische Endokrinologie und Reproduktionsmedizin
Priv.-Doz. Dr. Dr. med. Gernot Prietl
Theaterplatz 18
53177 Bonn-Bad Godesberg
Tel. 0228/3503910, Fax -36 48 92
ivf@careme.de

Praxisklinik Trier
Zentrum für Gynäkologische Endokrinologie & Reproduktionsmedizin
Dr. med. M. Satari,
Prof. Dr. med. J. P. Hanker
Wissenschaftspark (WIP)
Max-Planck-Str. 15
54296 Trier
Tel. 0651/97906-0, Fax -97906-20
info@kinderwunsch-trier.de
www.kinderwunsch-trier.de

Kinderwunschzentrum der Universitätsmedizin Mainz
Univ.-Prof. Dr. Rudolf Seufert M.Sc.,
Fr. Dr. V. Passuello,
Univ. Prof. Dr. Dr. H. Kölbl
Langenbeckstr. 1
55101 Mainz
Tel. 06131/17 3929, Fax -17 6215
seufert@mail.uni-mainz.de
www.wunschkind-mainz.de

Kinderwunsch Zentrum Mainz
Dr. med. Robert Emig,
Dr. med. Silke Mettlin
Rheinstr. 4
Fort Malakoff Park
55116 Mainz
Tel. 06131/60 30 20, Fax -60 30 210
arzt@Kinderwunschzentrum-mainz.de
www.kinderwunschzentrum-mainz.de

Kinderwunschzentrum Mittelrhein
Koblenz u. Neuwied
Dr. Josef Beran, Dr. Birgit Müller
Marktstr. 83
56564 Neuwied
Neustadt 8
56068 Koblenz
Tel. 02631/3968-0, Fax -3968-29
info@Kinderwunsch-mittelrhein.de
www.kinderwunsch-mittelrhein.de

Zentrum für Reproduktionsmedizin
Prof. Dr. Ernst Siebzehnrübl,
Dr. Anja Weidner
Hanauer Landstr. 328 - 330
60314 Frankfurt
Tel. 069/426077-0, Fax -426077-10
anmeldung@ivf-ffm.de
www.ivf-ffm.de

Kinderwunschzentrum Frankfurt a. M.
Am Krankenhaus Nordwest
Prof. Dr. med. E. Merz
Steinbacher Hohl 2 - 26, Haus II, I. OG
60488 Frankfurt a. M.
Tel. 069/7601 3611, Fax -7601 3321
info@kinderwunschzentrum-frankfurt.de
www.kinderwunschzentrumfrankfurt.de

Fertilitätszentrum u. Gyn. Endokrinologie,
Universitätsfrauenklinik Frankfurt am Main
PD Dr. med. Inka Wiegratz
Theodor-Stern-Kai 7
60590 Frankfurt am Main
Tel. 069/630 15 518, Fax -630 14 505
info.ivf@kgu.de
www.kgu.de/zfg

Kinderwunschzentrum am Büsing Park
Dr. med. K. Manolopoulos
Herrnstr. 51
63065 Offenbach
Tel. 069/809 075 71, Fax -809 075 73
info@offenbach-kinderwunsch.de
www.offenbach-kinderwunsch.de

Kinderwunschzentrum Darmstadt
Prof. Dr. med. G. Leyendecker,
Dr. med. A. Bilgicyildirim,
Dr. med. M. Inacker
Bratustraße 9
64293 Darmstadt
Tel. 06151/500 98 0, Fax -500 98 500
info@KWZ-da.de
www.kinderwunschzentrum-da.de

MVZ Kinderwunschzentrum Wiesbaden
Dres. med. M. Schorsch, Th. Hahn,
G. Adasz, K. Schilberz
Mainzer Str. 98 – 102
65189 Wiesbaden
Tel. 0611/97632-0, Fax -97632-10
info@kinderwunschzentrum-wiesbaden.de
www.kinderwunschzentrum-wiesbaden.de

Überregionale Gemeinschaftspraxis
IVF-Saar Saarbrücken-Kaiserslautern
Dres. med. M. Thaele, L. Happel,
A. Giebel, N. Nassar, M. Otte
Europaallee 15
66113 Saarbrücken
Maxstr. 13
67659 Kaiserslautern
Tel. 0681/936 320 Fax -936 3210
Zentrum@ivf-saar.de
www.ivf-saar.de

Kinderwunschzentrum Ludwigshafen
Dr. med. Tobias Schmidt,
Dr. med. Claudia Schmidt,
Dr. rer. nat. Nicole Motzkus
Ludwigstr. 54B
67059 Ludwigshafen
Tel. 0621/592 98 688, Fax -592 98 690
dr.schmidt@kinderwunsch-lu.de
www.kinderwunschzentrum-ludwigshafen.de

Kinderwunschzentrum Mannheim
Klinikdirektor
Prof. Dr. med. M. Sütterlin,
Dr. med. R. Schaffelder,
PD Dr. med. St. Bussen
Dr. med. J. Schüttler, Dr. Gentili
Theodor-Kutzer-Ufer 1-3
68167 Mannheim
Tel. 0621/3833-638, Fax -3833-814
Julia-Schuettler@gyn.ma.uni-heidelberg.de
www.umm.de/64.0.html

Viernheimer Institut für Fertilität
PD. Dr. med. Stefanie Volz-Köster,
Dr. med. Christina Nell,
Dr. sc. hum. Brigitte Hauff
Karl-Marx-Str. 43
68519 Viernheim
Tel. 06204/70 36 00, Fax -70 36 05
info@vif-kinderwunsch.de
www.vif-kinderwunsch.de

Kinderwunschzentrum Heidelberg
Dr. Waltraud Parta-Kehry, Dr. Suat Parta,
Friederike Tesarz,
Dr. Daniela Seehaus, Dr. Christina Thöne
Römerstr. 3
69115 Heidelberg
Tel. 06221/89300-0, Fax -89300-20
info@kwz-hd.de
www.kwz-hd.de

Universitäts-Frauenklinik Heidelberg
Gynäkologische Endokrinologie und Fertilitätsstörungen
Prof. Dr. Thomas Strowitzki,
PD Dr. Bettina Toth
Voßstr. 9
69115 Heidelberg
Tel. 06621/56 79 10, Fax –56 40 99
thomas.strowitzki@med.uni-heidelberg.de
www.uniklinkum-heidelberg.de/gyn-endo-repro

Kinderwunsch-Zentrum-Stuttgart
Praxis Villa Haag
Dr. D. B. Mayer-Eichberger
Herdweg 69
70174 Stuttgart
Tel. 0711/22 10 84, Fax -22 10 85
info@Kinderwunschpraxis.de
www.kinderwunschpraxis.de

Gynäkologie und Reproduktionsmedizin
Dr. med. Fred Maleika,
Dipl. Biol. Dr. rer. nat. Silvia Harrer
Lessingstr. 9
70174 Stuttgart
Tel. 0711/226 13 44, Fax -226 30 48
drmaleika@aol.com

Frauenarztpraxis mit Tagesklinik
Reproduktionsmedizin
Prof. Dr. med. Ute Fuchs
Kornbergstr. 23
70176 Stuttgart
Tel. 0711/22 62 728, Fax -22 62 738
Prof.UteFuchs@t-online.de
www.kinder-wunsch-bw.de

KinderwunschPraxis Dres. Göhring
Dr. med. Ulrich Göhring,
Dr. med. Inés Göhring
Hagellocher Weg 63
72070 Tübingen
Tel. 07071/94663-0, Fax -94663-99
info@Kinderwunschpraxis.com
www.kinderwunschpraxis.com

UFK – Tübingen
IVF – Zentrum
Dr. Barbara Lawrenz,
Dr. Eva Neunhoeffer
Calwerstr. 7
72076 Tübingen
Tel. 07071/298 31 17, Fax -292 250
Barbara.Lawrenz@med.uni-tuebingen.de

Aalener IVF-Zentrum
Dr. Rainer Rau, Dr. Birgit Schröppel,
Dr. Roland Eid (Biologe)
Weidenfelder Str. 1
73430 Aalen
Tel. 07361/620 21, Fax -620 26
rau@kinderwunsch-aalen.de
www.kinderwunsch-aalen.de

IVF-Zentrum Esslingen
Dr. med. J. E. Costea
Marktplatz 5/1
73728 Esslingen
Tel. 0711/31059-160, Fax -31059-161
ivfcostea@t-online.de
www.ivf-praxis.com

Centrum für Kinderwunsch Pforzheim
Verena Peuten
Zerrennerstr. 22 – 24
75172 Pforzheim
Tel. 07231/280 82 80, Fax -280 82 888
info@kinderwunsch-pforzheim.de
www.kinderwunsch-pforzheim.de

Karlsruher IVF-Programm,
AG für Fortpflanzungsmedizin
Frauenarztpraxis H. J. Gräber
H. J. Gräber, Dr. V. Wetzel, Dr. F. Tetens
Laborärzte Dr. M. Linnemann und Kollegen
Humangenetik Dr. G. Schlüter
Kaiserstr. 142 - 144
76133 Karlsruhe
Tel. 0721/82 46 700, Fax -29 527
info@ivf-programm.de
www.ivf-programm.de

Centrum für Gynäkologische Endokrinologie & Reproduktionsmedizin Freiburg (CERF)
Gemeinschaftspraxis
Dr. Weitzell, Dr. Thiemann, PD Dr. Wetzka, Prof. F. Geisthövel
Bismarkallee 7 F
79098 Freiburg
Tel. 0761/ 207 430, Fax -321 11
info@kinderwunsch-hormone.de
www.kinderwunsch-hormone.de

Klinik für Endokrinologie u. Reproduktionsmedizin
Universitäts-Frauenklinik Freiburg
Dr. S. Friebel,
Dr. A. Hanjalic-Beck,
Prof. H. P. Zahradnik
Hugstetter Str. 55
79106 Freiburg
Tel. 0761/2703 187, Fax -2703 037
arzt.ivf.ufk@uniklinik-freiburg.de
www.uniklinik-freiburg.de

Zentrum für Reproduktionsmedizin München
Dr. med. Walter Bollmann,
Dr. Thomas Brückner,
Dr. med. Ulrich Noss
Tal 11
80331 München
Tel. 089/242295-0, Fax -242295-60
info@ivf-bbn.de
www.ivf-bbn.de

Gynäkologische Endokrinologie und Reproduktionsmedizin
der Uni München – Innenstadt
Ludwig-Maximilians-Universität (LMU)
Frauenklinik Innenstadt
PD Dr. med. M. S. Kupka,
Dr. rer. nat. P. Papadopoulos
Maistr. 11
80337 München
Tel. 089/5160-4214, Fax -5160-4918
nachricht@ivf-maistrasse.de
www.ivf-maistrasse.de

Hormon Zentrum München
Dr. med. H. Lacher, Dr. med. J. Puchta,
Dr. med. S. Michna,
PD Dr. med. H.-U. Pauer
Westendstr. 193 – 195
80686 München
Tel. 089/547 041-0, Fax -547 041-34
info@hormonzentrum.de
www.hormonzentrum.de

Kinderwunsch Centrum München-Pasing
Dr. med. Klaus Fiedler,
Dr. med. Irene von Hertwig,
Dr. med. Gottfried Krüsmann,
Prof. Dr. Dr. med. habil Wolfgang Würfel,
Ina Laubert,
Dr. med. Claudia Santjohanser,
Sabine Völker, Osama Meri,
Dr. med. Jan Krüsmann
Lortzingstr. 26
81241 München
Tel. 089/244 144-0, Fax -244 144-42
info@ivf-muenchen.de
www.ivf-muenchen.de

Hormon- und Kinderwunsch-Zentrum der LMU München-Großhadern
Leiter: Prof. Dr. Christian J. Thaler
Leitende Embryologin:
Dr. rer. nat. Viktoria von Schönfeldt
Klinik und Poliklinik der Frauenheilkunde und Geburtshilfe
Direktor: Prof. Dr. med. Klaus Friese
Marchioninistr. 15
81377 München
Tel. 089/7095-6825, Fax -7095-3844
www.kinderwunsch-uni-muenchen.de

A.R.T. Bogenhausen
Prof. Dr. med. Dieter Berg,
Dr. med. Bernd Lesoine
Prinzregentenstr. 69
81675 München
Tel. 089/414 240-0, Fax -414 240-11
info@ivf-muenchen.com
www.ivf-muenchen.com

Kinderwunsch Centrum Chiemsee
Dr. med. Susann Boehm,
Dr. med. Matthias Lehnert
Hochriesstr. 21
83209 Prien am Chiemsee
Tel. 08051/5050, Fax -63499
info@Kinderwunsch-chiemsee.de
www.kinderwunsch-chiemsee.de

IVF-Zentrum Augsburg
Dr. med. K.-F. Hiller, Dr. med. T. H. Bauer,
Dr. H. Kraus
Prinzregentenstr. 25
86150 Augsburg
Tel. 0821/502 780, Fax -502 78 78
info@ivf-augsburg.de
www.ivf-augsburg.de

KWK - KinderWunschKempten
Zentrum für Reproduktionsmedizin
Klinik für Frauenheilkunde und Geburtshilfe - Klinikum – Kempten gGmbH
Prof. Dr. med. Ricardo Felberbaum,
OA Gerhard Allgayer,
Dr. med. Daniela Hiltensberger,
Dipl. Biol. Mohammad Kousehlar
Robert-Weixler Str. 50
87439 Kempten
Tel. 0831/530-3393, Fax -530-3457
Ricardo.Felberbaum@Klinikum-Kempten.de
www.kinderwunsch-kempten.de

Praxisklinik Frauenstraße Ulm
Kinderwunschzentrum Ulm
Prof. Dr. med. K. Sterzik,
Dr. med. E. Strehler
Frauenstr. 51
89073 Ulm
Tel. 0731/96 651-0, Fax -96 651-30
info@kinderwunsch-ulm.de
www.kinderwunsch-ulm.de

Sektion für Gynäkologische Endokrinologie und Reproduktionsmedizin
Universität Ulm
Dr. K. Hancke, Dr. B. Seemann,
Dr. E. Isachenko, Dr. B. Rosenbusch
Prittwitzstr. 43
89075 Ulm
Tel 0731-500-58676, Fax 0731-500-58664
Repromed.UFK@uniklinik-ulm.de
www.uniklinik-ulm.de/ivf

Kinderwunschpraxis Ulm
Praxis Dr. Gagsteiger
Einsteinstr. 59
89077 Ulm
Tel. 0731/15159473
info@kidz-ulm.de
www.kidz-ulm.de

Kinderwunsch- und Frauen-Hormon-Centrum Nürnberg
Dr. Barbara Munzer-Neuwinger,
Dr. Joachim Neuwinger,
Prof. Dr. Peter Licht
Agnesgasse 2-4
90403 Nürnberg
Tel. 0911/235 55 00, Fax -235 55 16
aerzte@kinderwunschcentrum-nuernberg.de
www.kinderwunschcentrum-nuernberg.de

Kinderwunschzentrum Erlangen
Dr. med. J. Van Uem
Michael-Vogel-Str. 1e
91052 Erlangen
Tel. 09131/8095-0, Fax -8095-30
vanuem@web.de
www.vanuem.com

Gemeinschaftspraxis der Frauenärzte
Zentrum für Reproduktonsmedizin
Dr. Miklos Hamori,
Dr. Rolf Behrens,
Dr. Andreas Hammel
Nürnberger Str. 35
91052 Erlangen
Tel. 09131/89 530, Fax -205 410
info@ivf-erlangen.de
www.ivf-erlangen.de

Universitäts-Fortpflanzungszentrum Franken (UFF)
Prof. Dr. med. M. W. Beckmann,
PD Dr. med. Andreas Müller,
Prof. Dr. rer. nat. Ralf Dittrich (Biologe)
Universitätsstr. 21-23
91054 Erlangen
Tel. 09131/85-33553
fk-uff@uk-erlangen.de
www.reproduktionsmedizin.uk-erlangen.de

Kinderwunschzentrum Regensburg
Prof. Dr. med. Bernd Seifert,
Prof. Dr. med. Monika Bals-Pratsch
Hemauer Str. 1
93047 Regensburg
Tel. 0941/59 20 60, Fax -59 20 623
info@kinderwunsch-regensburg.de
www.kinderwunsch-regensburg.de

Kinderwunschzentrum Niederbayern
Dr. med. Hans J. Kroiss,
Dr. med. E. Bernhardt.
Dr. med. Anja Bräuker,
Dipl. Biologin Heike Vornehm,
Edith Wilhelm
Stadtfeldstr. 50
94469 Deggendorf
Tel. 0991/297 99 332, Fax -297 99 331
heike-vornehm@t-online.de
www.ivf-bayern.de

Klinik am Hofgarten
Kinderwunschzentrum Bayreuth
Dr. Dr. Stefan Todorow
Richard-Wagner-Straße 34-36
95444 Bayreuth
Tel. 0921/745 444 0, Fax -745 444 10
info@ivf-bayreuth.de
www.ivf-bayreuth.de

Zentrum für Kinderwunsch, Pränataldiagnostik, Medizinische Genetik
Dr. med. R. Mai,
Dr. med. W. Schmitt,
Frau Dr. med. L. Mulfinger
Juliuspromenade 7
97070 Würzburg
Tel. 0931/32 12 30, Fax -32 12 377
kontakt@drs-mai-schmitt-mulfinger.de
www.drs-mai-schmitt-mulfinger.de

Universitäts-Frauenklinik Würzburg
Kinderwunschzentrum
Dr. med. Torsten Frambach,
Dr. med. Thomas Bernar
Josef-Schneider-Str. 4
97080 Würzburg
Tel. 0931/201 25 619, Fax -201 25 625
kinderwunsch@klinik.uni-wuerzburg.de
www.kinderwunsch-wuerzburg.de

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