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Gynäkologie • Kontrazeption • Psychosomatik • Reproduktionsmedizin • Urologie



D.I.R.-Annual 2018

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Preface

D-I-R Annual 2018 – The German IVF-Registry

V. Blumenauer, U. Czeromin, D. Fehr, K. Fiedler, C. Gnoth, J.-S. Krüssel, M.S. Kupka, A. Ott, A. Tandler-Schneider

Once again it is our great pleasure to present the annual report of the data collected by the German IVF-Registry (D-I-R). The 2018 Registry looks back onto more than 30 years of diligent data collection, extraction, and evaluation.

Since 1996, the German IVF-Registry has been electronically collecting data for each initiated treatment cycle. Meanwhile, nearly 2.0 million ART cycles (ART: Assisted Reproduction Technology) since 1982 and nearly 300,000 children born since 1997 have been documented in the database. The prospective documentation as well as the cycle-by-cycle data collection are of particular value and make the German IVF-Registry unique world-wide.

This Yearbook 2018 is like the Yearbook 2017 a yearbook of change and of organizational efforts undertaken by all authors and contributors. After years of data control and reconciliation, administrative work and programming, the implementation of a new data system has been rolled out to the IVF-clinics. This is still a major change and required huge modifications within the existing, heterogeneous IT environments of those pioneering centers. We want to express our thanks to everyone contributing to this process: the software companies, the D-I-R data management group, the D-I-R office, and particularly the associates within those centers.

The 2018 yearbook is based on exploitable exports from 131 centers, for which a number of 105,421 plausible cycles

was documented. A total of 61,114 women were treated in 2018, resulting in an average of 1.7 cycles per woman. We are happy to note that the pregnancy rate per transfer in fresh cycles was 32.1%, whereas the pregnancy rate per transfer in cryo cycles was 29.1%. In the previous year, 2017, the documented birth rate per embryo transfer was 23.6% in fresh cycles and 18.4% in cryo cycles, with a still very good general pregnancy outcome documentation of 91.5%.

Remarkably, 69.8% of the pregnancies led to a birth. A birth rate of 21.9% per embryo transfer was achieved. For comparison, the probability for a 25 year old woman to become pregnant WITHOUT any medical assistance averages at 23%. For a 35 year old woman this probability decreases to 16%, according to the Bundesgesundheitsblatt [BGBI 2013; 56: 1633–41].

In the last years particular attention was placed on the known problems of multiple pregnancies within ART cycles. In 2017, the rate of twin births was 21.3% in fresh cycles and 15.0% in cryo cycles. This rate is still too high! In this year particular attention is placed upon cryo cycles.

The data presented in this yearbook demonstrate the high quality of reproductive medicine in Germany, leading to impressive results even under the restrictive legislation: in accordance with the “Embryo Protection Act” of 1990, the elective single embryo transfer (eSET) is still unlawful in Germany. Egg donation is forbid-

den as well. Cryopreservation is allowed for usually 2-PN stage oocytes only. The regulation that only a maximum of three embryos may be transferred has certainly led to positive effects. Due to the increasing quality of stimulation, improvements in oocyte and embryo treatment, and changes in transfer technology, the average number of transferred embryos has decreased by more than 25% in fresh cycles since 1997. Nevertheless on average 1.80 embryos after IVF and ICSI were transferred.

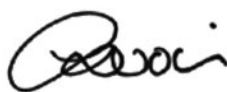
Good and diligent documentation is proof of a highly organized and efficient workflow. The prospective cycle-by-cycle data collection is another quality feature of the German IVF-Registry, a feature that sets the German IVF-Registry apart from any other registry in the world. The results of the comprehensive data collection in the German IVF-Registry and its reports have been cited in numerous scientific publications, nationally as well as internationally, lending support and impetus to scientific research.

Furthermore, the data have contributed to the continuous improvement of quality within the German centers for reproductive medicine. Physicians, biologists, and patients alike have benefited from the tedious work necessary to collect, export, and evaluate as well as publish the data. Therefore, we express our gratitude to all those involved.

Thank you and keep up the good work!



Prof. Dr. med. Jan-Steffen Krüssel



Dr. med. Ute Czeromin
President of the Board



Dr. med. Andreas Tandler-Schneider

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D-I-R Annual 2018 – Tables

Number of Treatments in 2018

Centers for IVF-, ICSI-, and Cryo Transfer Treatments



Members of the German IVF-Registry 2018

n=135

Registry Participants 2018*	n=131	
Data Received by Deadline Sep 8th 2019*	n=127	
Documented Treatment Cycles	n=106,890	(100.0%)
Plausible	n=105,421 of 106,890	(98.6%)
Prospective (all Cycles)	n=95,069 of 105,421	(90.2%)
Prospective (IVF, ICSI, IVF/ICSI)	n=60,148 of 64,441	(93.3%)
Number of Women Treated**	n=61,114	

Mean Number of Treatment Cycles per Woman 1.7

Number of Treatments 1982–2018

IVF, ICSI, IVF/ICSI, Cryo Transfer – Prospective and Retrospective Data



	1982	1986	1990	[...]	2002	2003	2004	[...]	2014	2015	2016	2017	2018	Prospectivity 2018 in %
IVF	742	3,806	7,343	For values from 1991 to 2001 see www. deutsches- ivf-register.de	23,936	28,058	11,848	For values from 2005 to 2013 see www. deutsches- ivf-register.de	13,675	15,164	15,879	15,606	16,923	92.5
ICSI					37,692	51,389	25,339		44,427	48,674	48,690	47,471	46,084	93.6
IVF/ICSI					678	987	446		1,178	1,223	1,203	1,170	1,434	94.3
Freeze all												1,864	2,570	41.2
Cryo					14,923	14,265	16,883		21,893	23,571	25,008	27,234	28,650	92.5
Mixed Fresh and Cryo Cycles												235	255	87.4
None ¹					9,802	11,133	4,928		7,210	7,492	9,974	8,907	9,505	73.1
Total plausible cycles²	742	4,201	8,653		87,044	105,854	59,448		88,383	96,124	100,754	102,487	105,421	90.2
Registry Parti- cipants	5	28	53		112	116	120		128	130	128	131	131	

*) Four centers could not be part of the national analyses. Eight centers did not export in time with regard to due day.
133 centers used the interface ARTbox®.

**) Base quantity: Total number of women, including implausible treatment cycles

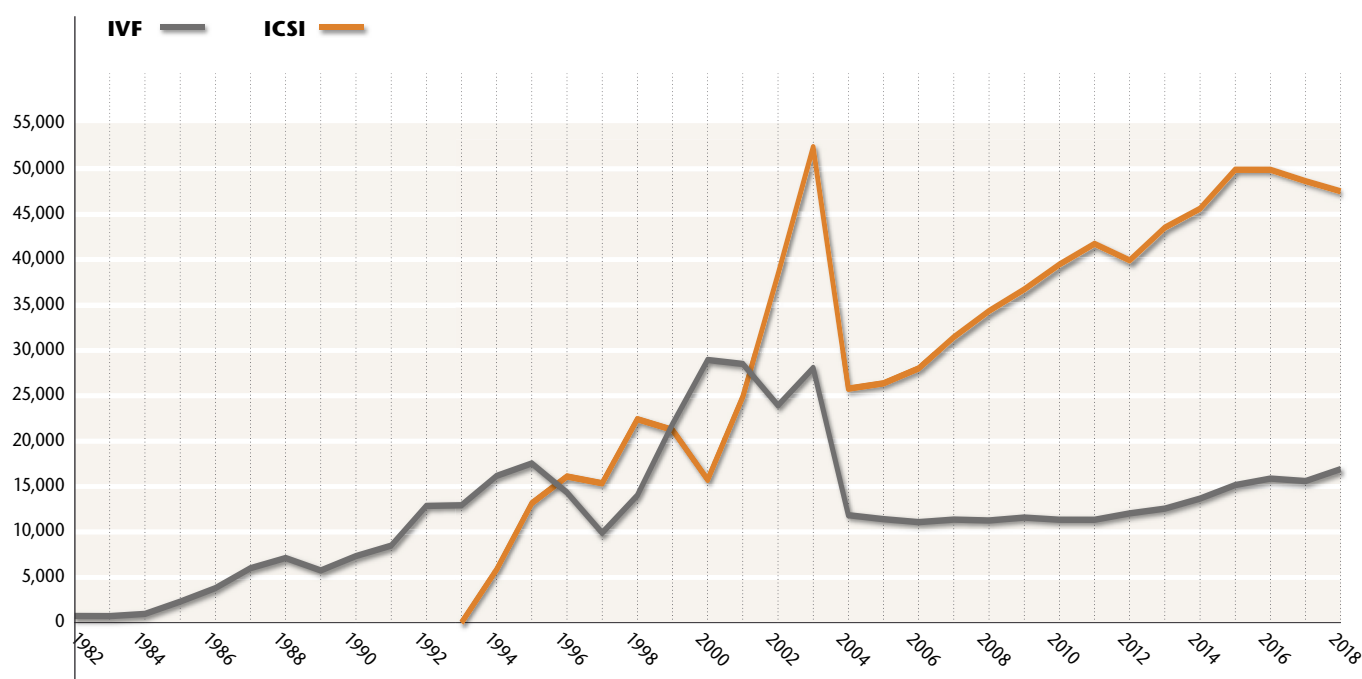
From 1999 on each initiated cycle is documented.

1) "None": treatments aborted prior to oocyte culture respectively before cryo-thawing.

2) "Total" may contain GIFT cases. Documentation has been neglected since 2005 due to lack of statistical relevance

Number of Ovum Pick-Up Cycles (OPU) 1982–2018

IVF, ICSI* – Prospective and Retrospective Data



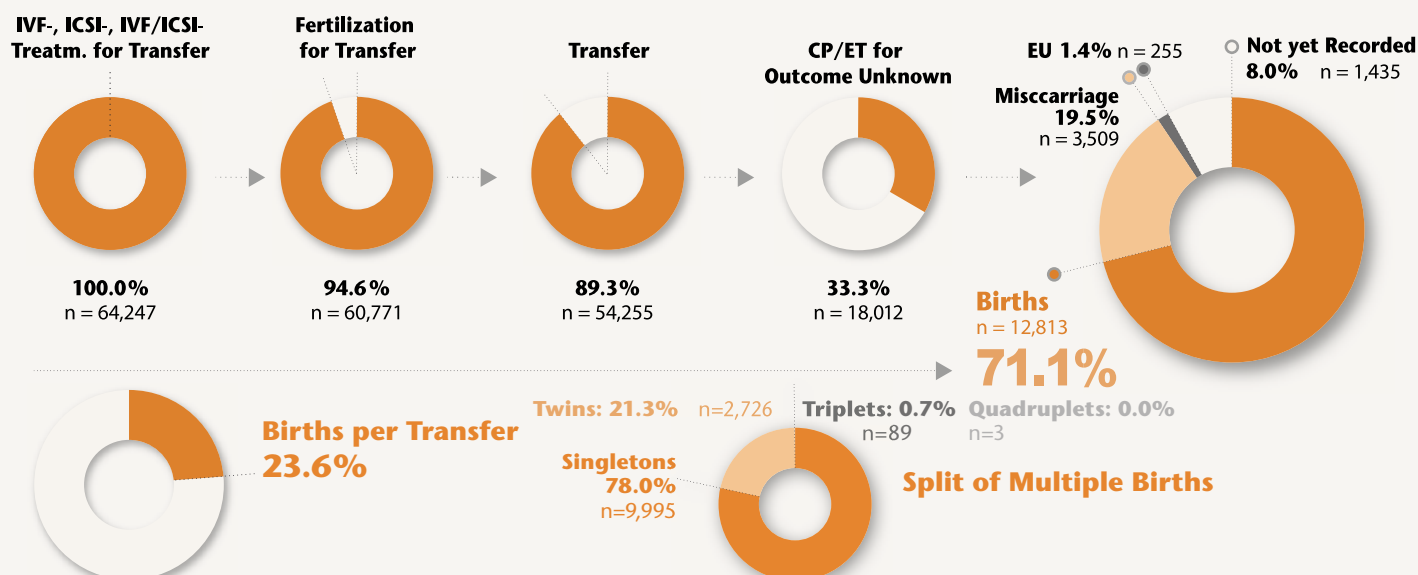
	1982	1986	1990	[...]	2002	2003	2004	[...]	2014	2015	2016	2017	2018
IVF	742	3,806	7,343	For values from 1991 to 2001 see www.deutsches-ivf-register.de	23,936	28,058	11,848	For values from 2005 to 2013 see www.deutsches-ivf-register.de	13,675	15,164	15,879	15,606	16,923
ICSI					38,370	52,376	25,785		45,605	49,897	49,893	48,641	47,518
Total	742	3,806	7,343		62,306	80,434	37,633		59,280	65,061	65,772	64,247	64,441

*) OPUs leading to an IVF- and/or ICSI oocyte treatment

Where IVF/ICSI is not explicitly mentioned, the treatments were added to ICSI.

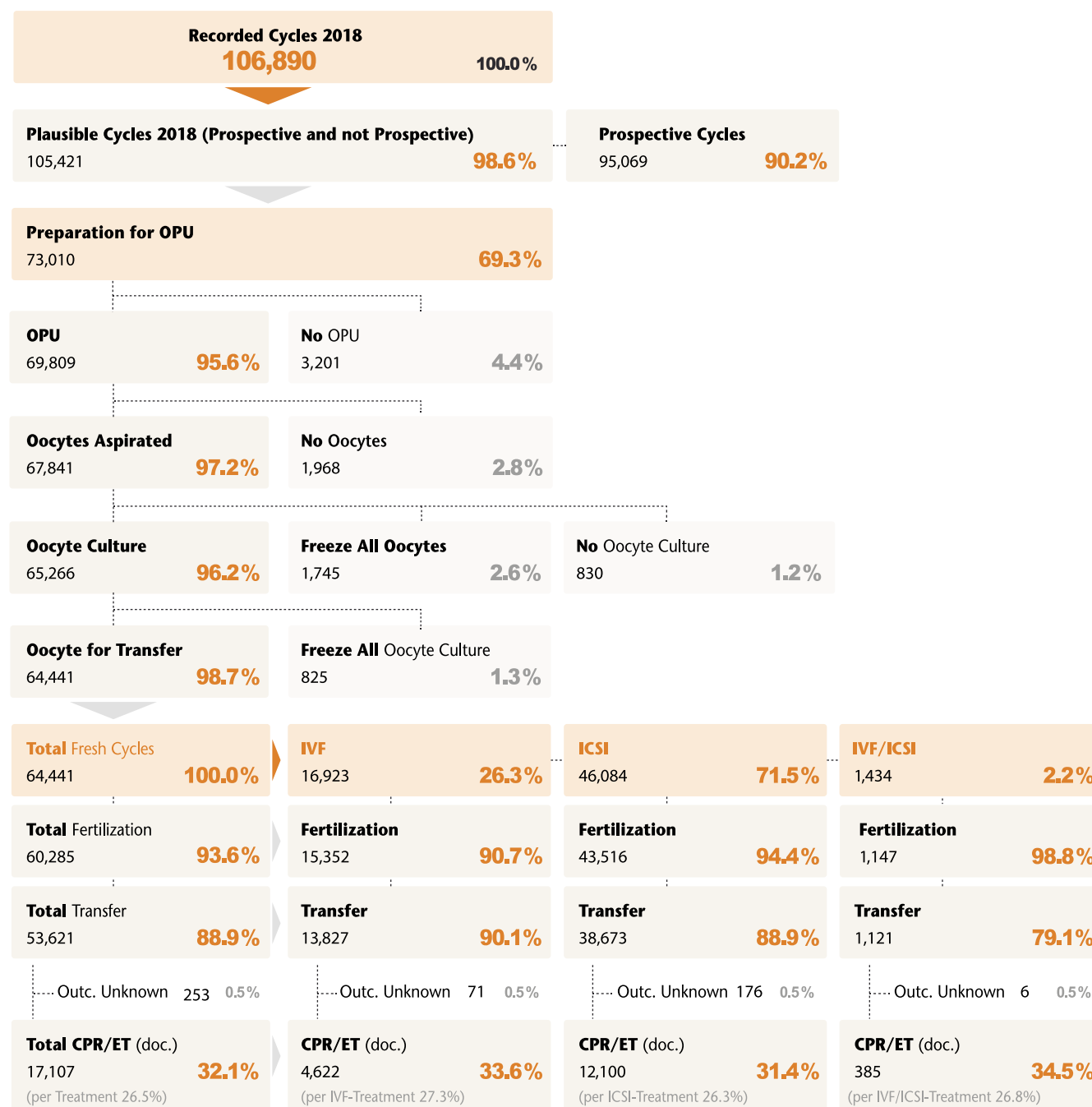
Summary of Statistics in Brief 2017 – CoD Sep 8th 2019

IVF, ICSI and IVF/ICSI – Prospective and Retrospective Data



D-I-R Statistics in Brief – Fresh Cycles 2018 (CoD Sep 8th 2019)

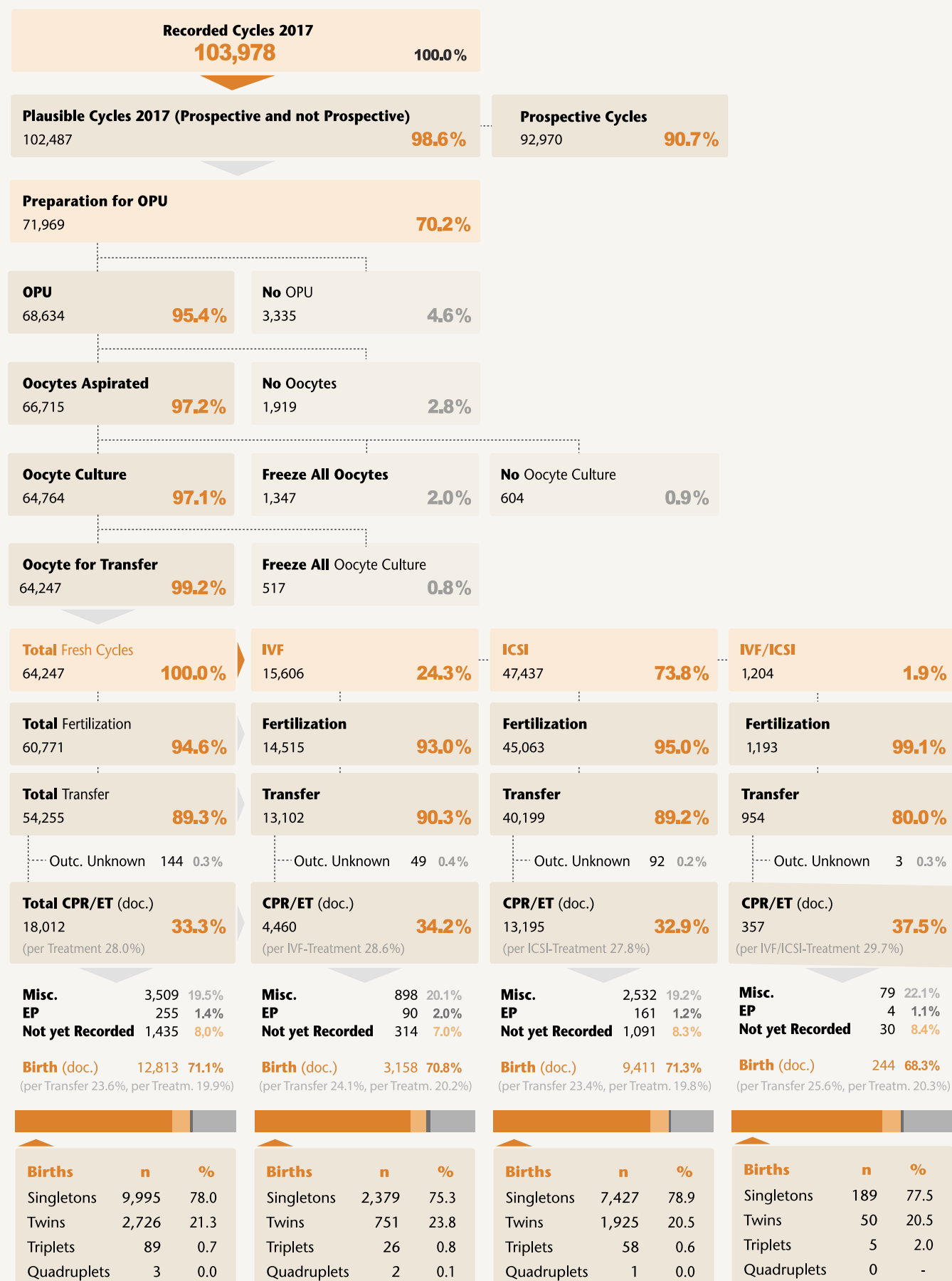
German IVF Registry – Prospective and Retrospective Data



D-I-R Statistics in Brief – Fresh Cycles 2017 (CoD Sep 8th 2019)

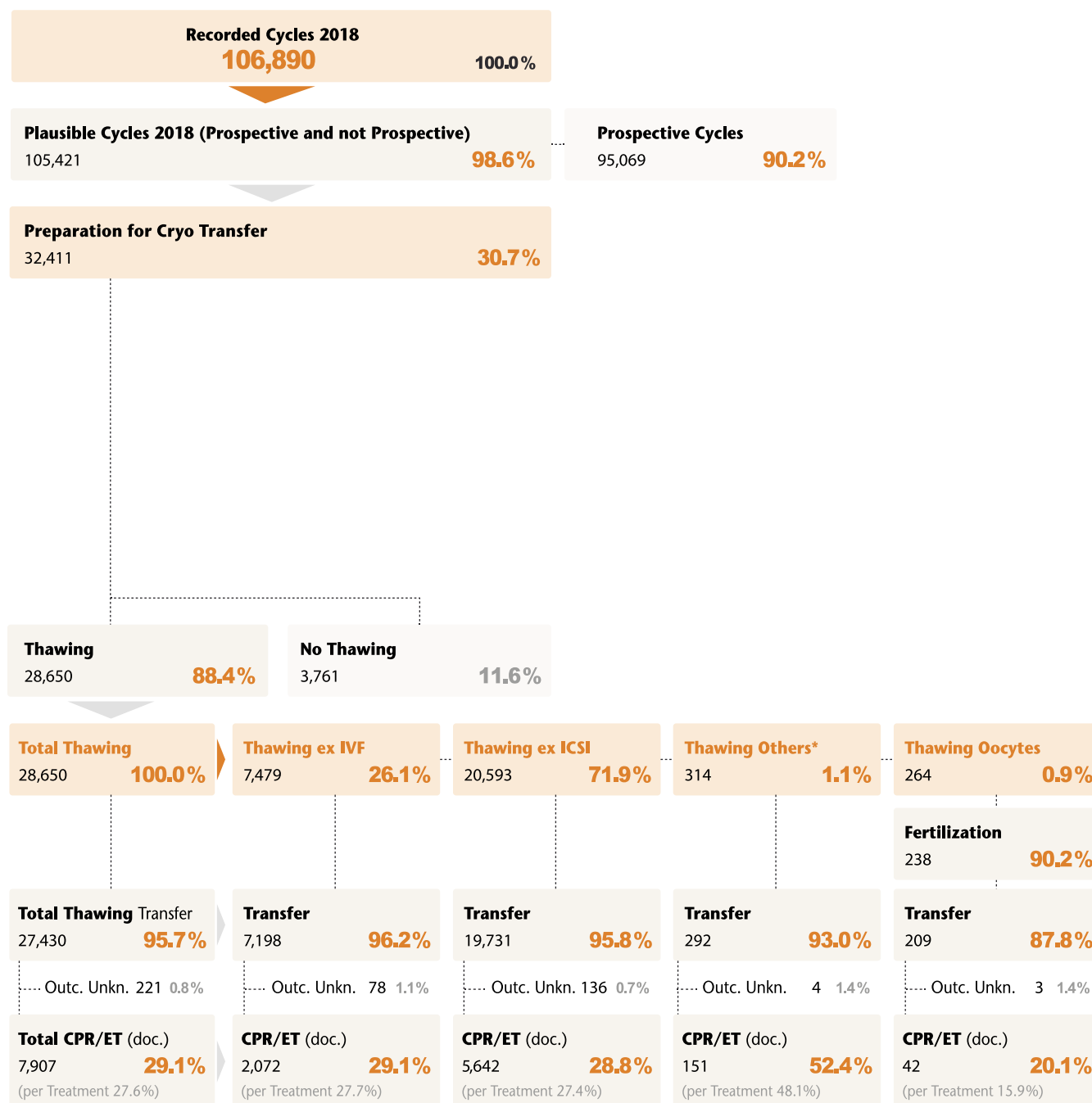


German IVF Registry – Prospective and Retrospective Data



D·I·R Statistics in Brief – Cryo Cycles 2018 (CoD Sep 8th 2019)

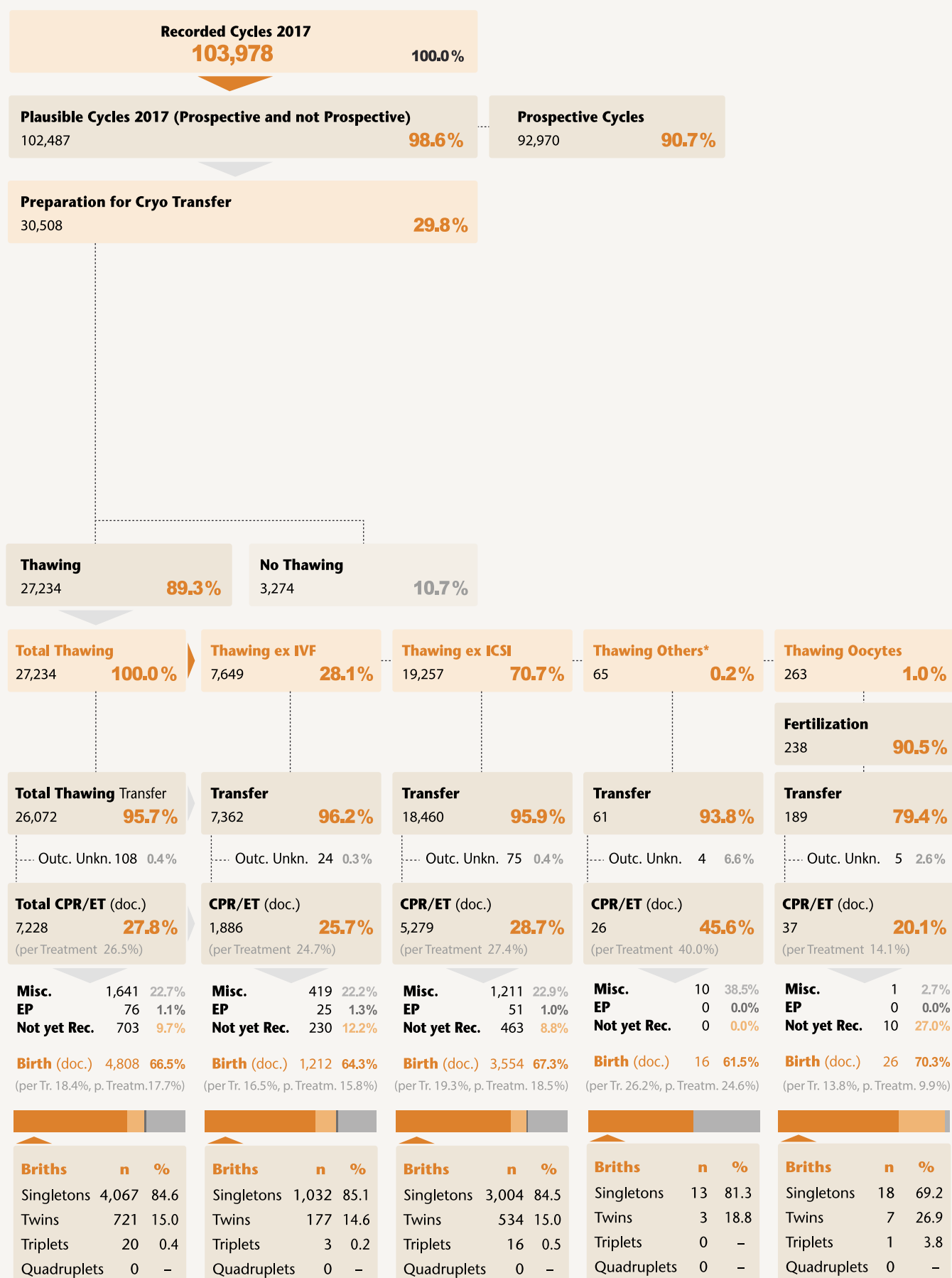
German IVF Registry – Prospective and Retrospective Data



*) Thawing others means cycles with unknown previous treatment, previous treatment not documented or previous treatment has partly been IVF and ICSI.

D-I-R Statistics in Brief – Cryo Cycles 2017 (CoD Sep 8th 2019)

German IVF Registry – Prospective and Retrospective Data



*) Thawing others means cycles with unknown previous treatment, previous treatment not documented or previous treatment has partly been IVF and ICSI.

Clinical Pregnancies (CP), Miscarriages (MISC), Ectopic Pregnancies (EP), Birth Rate and Children 2017

Prospective and Retrospective Data

Birth Rate/Transfer for patients with two embryos transferred and a surplus of at least two 2-PN-stage embryos:
IVF 24.8%, ICSI 23.9%, IVF/ICSI 26.3%

	IVF		ICSI		IVF/ICSI		Cryo Transfers	
	n	%	n	%	n	%	n	%
Treatment Cycles	15,606		47,437		1,204		27,234	
Treatments with Documented Pregnancy Outcome	15,292		46,346		1,174		26,531	
Transfers	13,102		40,199		954		26,072	
Clinical Pregnancies	4,460	100.0	13,195	100.0	357	100.0	7,228	100.0
No Information on Pregnancy Outcome	314	7.0	1,091	8.3	30	8.4	703	9.7
Live Births	3,158	70.8	9,411	71.3	244	68.3	4,808	66.5
Miscarriages	898	20.1	2,532	19.2	79	22.1	1,641	22.7
Included Above: Induced Abortions and Fetal Reduction*	39 (51)		128 (175)		4 (5)		52 (61)	
Ectopic Pregnancies	90	2.0	161	1.2	4	1.1	76	1.1
Children	3,967		11,455		304		5,569	
Still Births**	32	0.7	131	1.0	5	1.4	45	0.6
Malformations	34	0.8	146	1.1	8	2.2	61	0.8
Baby-Take-Home-Rate per Transfer***		24.1		23.4		25.6		18.4
Baby-Take-Home-Rate per Treatm.***		20.2		19.8		20.3		17.7
		20.4 ¹		20.2 ¹		20.6 ¹		18.1 ¹
		22.1 ²		22.0 ²		22.5 ²		19.9 ²

*) Number of cycles in which an induced abortion was documented. A more detailed differentiation cannot be supplied at this time.

The brackets contain the number of embryos

**) Number of still births in relation to the number of children born

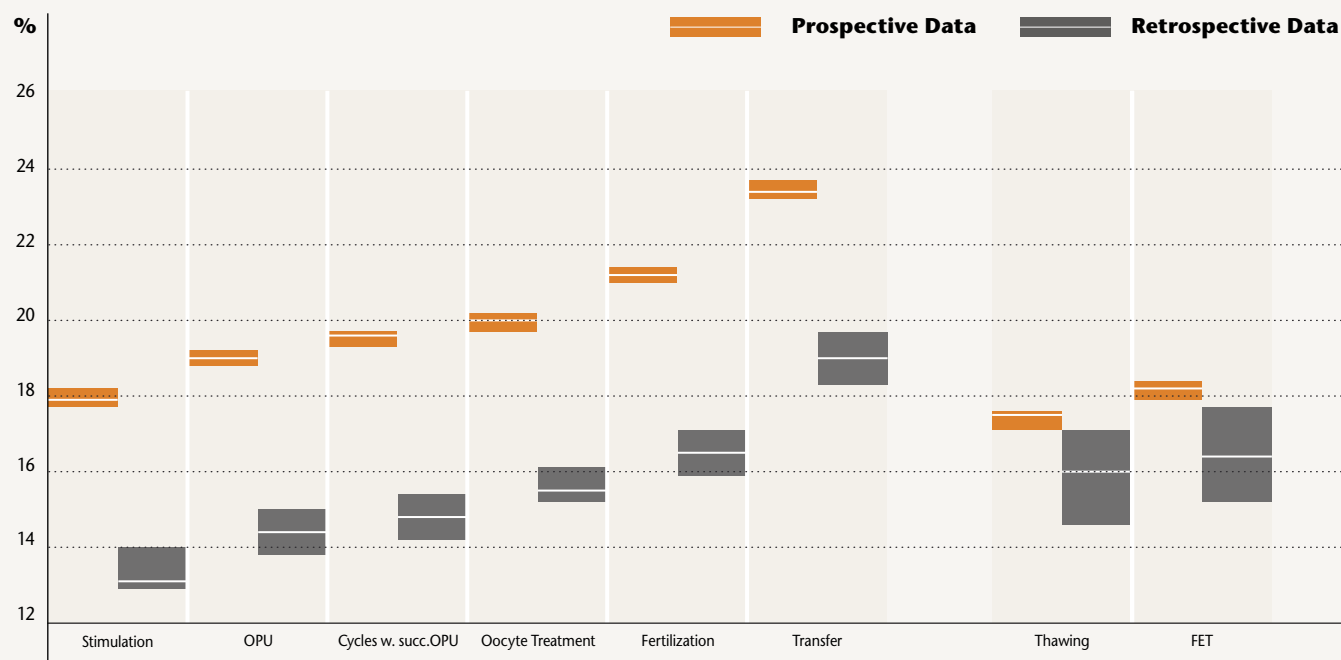
***) Percentage of births per number of treatments

¹) Cycles with unknown pregnancy outcome were subtracted from the base quantity (see „Treatments with documented pregnancy outcome“)

²) For cycles with unknown pregnancy outcome, the probable birth rate (births/pregnancy) was calculated and added to the number of known births

Birth Rate per Treatment Level in Fresh and Cryo Treatment Cycles 2016 and 2017

Prospective and Retrospective Data



	Stimulation	OPU	Cycles with Successful OPU	Oocyte Treatment	Fertilization	Transfer	Thawing	FET
Prospective Numbers	131,718	123,959	120,611	118,286	111,270	100,692	49,746	47,852
Birth	23,605	23,605	23,605	23,605	23,605	23,605	8,688	8,688
Upper Confid. Limit*	18.2	19.2	19.7	20.2	21.4	23.7	17.6	18.4
Birth/Treatm. %	17.9	19.0	19.6	20.0	21.2	23.4	17.5	18.2
Lower Confid. Limit*	17.7	18.8	19.3	19.7	21.0	23.2	17.1	17.9
Retrospective Numbers	14,442	13,144	12,766	12,250	11,482	9,976	2,888	2,827
Birth	1,893	1,893	1,893	1,893	1,893	1,893	463	463
Upper Confid. Limit*	14.0	15.0	15.4	16.1	17.1	19.7	17.1	17.7
Birth/Treatm. %	13.1	14.4	14.8	15.5	16.5	19.0	16.0	16.4
Lower Confid. Limit*	12.9	13.8	14.2	15.2	15.9	18.3	14.6	15.2

* With a 95%-probability, the true mean lies within the defined confidence interval.

Births as a Function of Number of Embryos Transferred and Age Groups 2000 – 2017

IVF, ICSI, IVF/ICSI, Cryo Transfer – Prospective and Retrospective Data

Woman's Age in Years		Singletons		Twins		Triplets		Quadruplets		Total
		n	%	n	%	n	%	n	%	n
<= 24	1 Embryo	227	97.8	5	2.2	0	–	0	–	232
	2 Embryos	1,833	76.0	569	23.6	10	0.4	0	–	2,412
	3 Embryos	278	67.6	111	27.0	20	4.9	2	0.5	411
	Total	2,338	76.5	685	22.4	30	1.0	2	0.1	3,055
25 – 29	1 Embryo	2,888	95.7	121	4.0	9	0.3	0	–	3,018
	2 Embryos	21,849	74.5	7,322	25.0	154	0.5	5	0.0	29,330
	3 Embryos	3,004	69.6	1,076	24.9	231	5.4	3	0.1	4,314
	Total	27,741	75.7	8,519	23.2	394	1.1	8	0.0	36,662
30 – 34	1 Embryo	8,359	96.9	255	3.0	12	0.1	0	–	8,626
	2 Embryos	51,398	75.8	16,151	23.8	303	0.4	4	0.0	67,856
	3 Embryos	8,590	71.0	3,014	24.9	487	4.0	7	0.1	12,098
	Total	68,347	77.2	19,420	21.9	802	0.9	11	0.0	88,580
35 – 39	1 Embryo	8,541	97.4	218	2.5	8	0.1	0	–	8,767
	2 Embryos	41,781	80.9	9,662	18.7	200	0.4	4	0.0	51,647
	3 Embryos	12,355	77.2	3,283	20.5	362	2.3	2	0.0	16,002
	Total	62,677	82.1	13,163	17.2	570	0.7	6	0.0	76,416
>= 40	1 Embryo	2,186	96.4	80	3.5	2	0.1	0	–	2,268
	2 Embryos	7,407	88.1	980	11.7	17	0.2	1	0.0	8,405
	3 Embryos	3,760	87.0	528	12.2	35	0.8	0	–	4,323
	Total	13,353	89.0	1,588	10.6	54	0.4	1	0.0	14,996

Total number of births 2000 – 2017: 219,709

Births as a Function of Number of Embryos Transferred and Treatment Method 2000 – 2017

Prospective and Retrospective Data

IVF

	Singletons		Twins		Triplets		Quadruplets		Total
	n	%	n	%	n	%	n	%	
1 Embryo	4,328	98.3	70	1.6	4	0.1	0	-	4,402
2 Embryos	27,828	76.1	8,578	23.5	165	0.5	3	0.0	36,574
3 Embryos	6,480	68.8	2,545	27.0	390	4.1	6	0.1	9,421
Total	38,636	76.7	11,193	22.2	559	1.1	9	0.0	50,397

ICSI

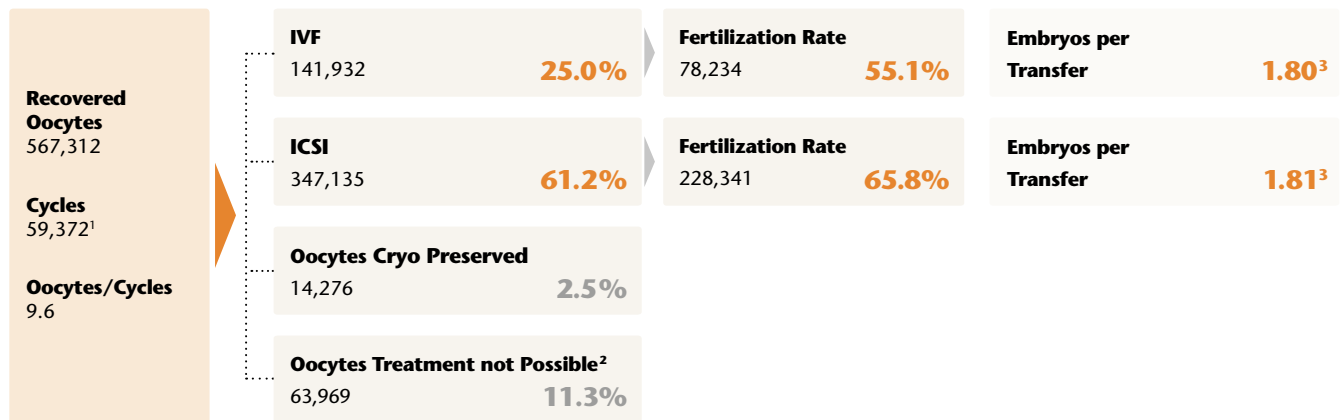
	Singletons		Twins		Triplets		Quadruplets		Total
	n	%	n	%	n	%	n	%	
1 Embryo	11,810	98.1	216	1.8	12	0.1	0	-	12,038
2 Embryos	72,539	77.4	20,800	22.2	332	0.4	7	0.0	93,678
3 Embryos	16,135	75.8	4,498	21.1	636	3.0	6	0.0	21,275
Total	100,484	79.1	25,514	20.1	980	0.8	13	0.0	126,991

Cryo Transfer

	Singletons		Twins		Triplets		Quadruplets		Total
	n	%	n	%	n	%	n	%	
1 Embryo	6,213	97.2	152	2.6	11	0.2	0	-	6,389
2 Embryos	23,180	83.7	4,187	15.9	102	0.4	1	0.0	27,691
3 Embryos	7,475	73.5	1,990	24.6	173	1.9	1	0.0	10,166
Total	36,868	83.3	6,329	15.9	286	0.7	2	0.0	44,246

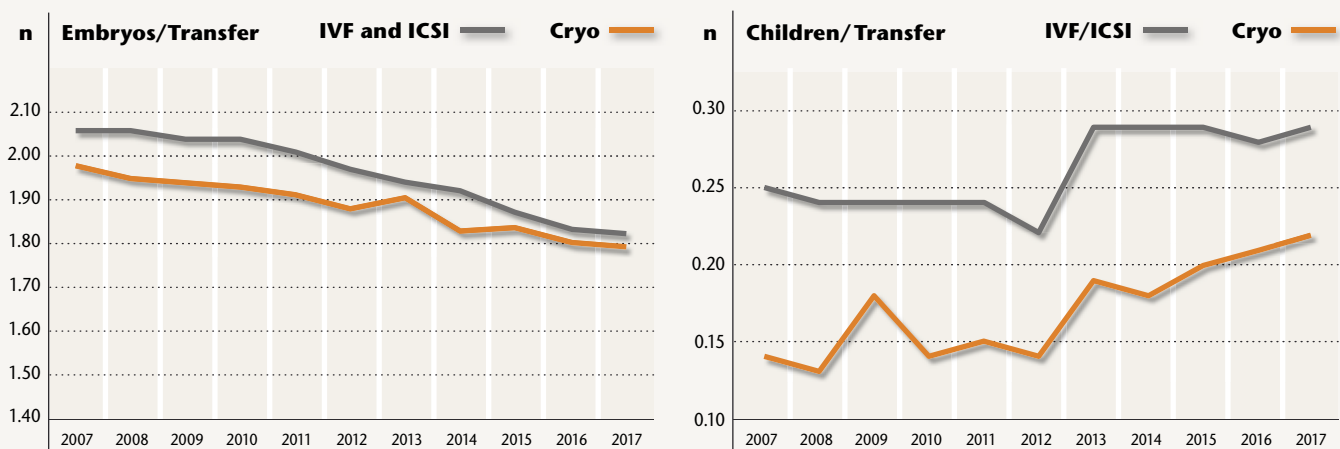
Fertilization Rate 2018

IVF and ICSI – Prospective Data



Embryos and Children per Transfer³ after IVF, ICSI and Frozen Embryo Transfer 1997–2017

Prospective and Retrospective Data



		1997	[...]	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
IVF	Embryos Transf.	2.49	For values from 1998 to 2006 see www.deutsches-ivf-register.de	2.08	2.06	2.03	2.01	1.95	1.88	1.86	1.75	1.80	1.82	1.80
	Children/Transf.	0.21		0.25	0.24	0.24	0.22	0.17	0.26	0.32	0.30	0.30	0.29	0.31
	Children/Deliv.	1.31		1.24	1.24	1.22	1.24	1.26	1.22	1.08	1.25	1.24	1.23	1.26
ICSI	Embryos Transf.	2.56		2.08	2.08	2.06	2.05	1.98	1.91	1.88	1.88	1.90	1.83	1.82
	Children/Transf.	0.22		0.24	0.23	0.23	0.22	0.16	0.25	0.28	0.29	0.29	0.28	0.29
	Children/Deliv.	1.29		1.21	1.22	1.21	1.21	1.22	1.21	1.22	1.22	1.22	1.22	1.22
Cryo Transfer	Embryos Transf.	2.34		2.07	2.07	2.05	2.04	1.91	1.88	1.90	1.83	1.84	1.80	1.79
	Children/Transf.	0.10		0.14	0.14	0.14	0.14	0.11	0.16	0.19	0.18	0.20	0.21	0.22
	Children/Deliv.	1.14		1.16	1.15	1.16	1.16	1.18	1.16	1.16	1.16	1.17	1.16	1.16

1) In 396 cases no IVF- or ICSI treatment was performed. 134 are cases in which oocytes were recovered but nevertheless a cryo transfer was performed

2) Reason: e.g. immature oocytes or no sperm available

3) Mean

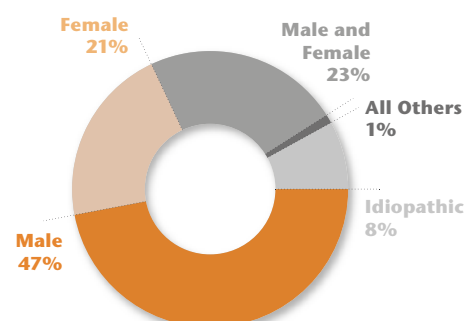
Distribution of Indications 2018

IVF and ICSI – Prospective Data



	Treatments		Transfers		Clin. Preg.	
	n		n	%	n	%
No Information	57		47	82.5	8	17.0
Idiopathic	5,043		4,010	79.5	1,343	33.5
Male	28,414		23,869	84.0	7,868	33.0
Female	12,746		10,439	81.9	3,274	31.4
Male and Female	13,492		11,041	81.8	3,338	30.2
Missing Male Partner	146		114	78.1	37	32.5
Homosexuality	250		216	86.4	78	36.1
Total	60,148		49,736	82.7	15,946	32.1

Shares of Indications (Cycles) 2018



IVF

Male Factor ▶	Normal		Red. Semen Quality		Unknown		Other**		Total	
Female Factor ▼	n	%	n	%	n	%	n	%	n	%
Normal	1,896	11.1	815	4.8	4	0.0	378	2.2	3,093	18.0
Tubal Pathology	2,065	12.0	564	3.3	64	0.4	446	2.6	3,139	18.3
Endometriosis	1,103	6.4	277	1.6	57	0.3	357	2.1	1,794	10.5
Hyperandrog./PCO	411	2.4	149	0.9	35	0.2	104	0.6	699	4.1
Ovulatory Dysf.	559	3.3	258	1.5	27	0.2	154	0.9	998	5.8
Psychogen. Factors	6	0.0	15	0.1	2	0.0	10	0.1	33	0.2
Age	544	3.2	79	0.5	240	1.4	117	0.7	980	5.7
Other*	1,497	8.7	940	5.5	123	0.7	726	4.2	3,286	19.2
No Information	1,844	10.8	632	3.7	98	0.6	544	3.2	3,118	18.2
Total	9,925	57.9	3,729	21.8	650	3.8	2,836	16.5	17,140	100.0

ICSI

Male Factor ▶	Normal		Red. Semen Quality		Azoospermia		Unknown		Other**		Total	
Female Factor ▼	n	%	n	%	n	%	n	%	n	%	n	%
Normal	1,082	2.2	10,113	21.0	1,207	2.5	264	0.5	3,551	7.4	16,217	33.7
Tubal Pathology	1,196	2.5	1,977	4.1	261	0.5	159	0.3	4,011	8.3	7,604	15.8
Endometriosis	536	1.1	1,719	3.6	90	0.2	56	0.1	571	1.2	2,972	6.2
Hyperandrog./PCO	394	0.8	1,032	2.1	74	0.2	58	0.1	606	1.3	2,164	4.5
Ovulatory Dysf.	146	0.3	1,834	3.8	111	0.2	35	0.1	334	0.7	2,460	5.1
Psychogen. Factors	249	0.5	34	0.1	0	0.0	97	0.2	567	1.2	947	2.0
Age	196	0.4	834	1.7	106	0.2	56	0.1	12	0.0	1,204	2.5
Other*	196	0.4	5,964	12.4	712	1.5	50	0.1	3,487	7.2	10,409	21.6
No Information	790	1.6	36	0.1	15	0.0	211	0.4	3,097	6.4	4,149	8.6
Total	4,785	9.9	23,543	48.9	2,576	5.4	986	2.0	16,236	33.7	48,126	100.0

*) The indications "sperm antibodies" and "cervical factor" are included here

**) The indication "pathological function test" is included here

IVF and ICSI 2017

Prospective Data



IVF 2017

	n	%	Fertilization %	Embryo %	Transfer %	Clin. Preg. %
Performed IVF Treatm.	14,503	100.0				
Successful Fertilization*	13,293	91.7	100.0			
Minimum 1 Embryo	12,804	88.3	96.3	100.0		
ET Performed	12,153	83.8	91.4	94.9	100.0	
Clin. Pregnancy	4,168	28.7	31.4	32.6	34.3	100.0
Birth	2,965	20.4	22.3	23.2	24.4	71.1
Miscarriage	843					20.3
Ectopic Pregnancy	87					2.1
Not Yet Recorded	273					6.5

ICSI 2017

	n	%	Fertilization %	Embryo %	Transfer %	Clin. Preg. %
Performed ICSI Treatm.	45,004	100.0				
Successful Fertilization*	42,560	94.6	100.0			
Minimum 1 Embryo	39,253	87.2	92.2	100.0		
ET Performed	38,146	84.8	89.6	97.2	100.0	
Clin. Pregnancy	12,588	28.0	29.6	32.1	33.0	100.0
Birth	9,063	20.1	21.3	23.1	23.8	72.0
Miscarriage	2,441					19.4
Ectopic Pregnancy	150					1.2
Not Yet Recorded	934					7.4

*) Successful fertilization of at least one oocyte per cycle

Testicular Sperm Extraction (TESE) and Cryo Transfer 2017

Prospective Data

ICSI/TESE 2017

	n	%	Fertilization %	Embryo %	Transfer %	Clin. Preg. %
ICSI	2,435	100.0				
Successful Fertilization*	2,289	94.0	100.0			
Minimum 1 Embryo	2,245	92.2	98.1	100.0		
ET Performed	2,074	85.2	90.6	92.4	100.0	
Clin. Pregnancy	635	26.1	27.7	28.3	30.6	100.0
Birth	464	19.1	20.3	20.7	22.4	73.1
Miscarriage	131					20.6
Ectopic Pregnancy	16					2.5
Not Yet Recorded	24					3.8

Cryo Transfer 2017

	n	%	PN %	Transfer %	Clin. Preg. %
Cryo Transfer Cycles	25,669	100.0			
Thawed PN	24,854	96.8	100.0		
ET Performed	24,566	95.7	98.8	100.0	
Clin. Pregnancy	6,771	26.4	27.2	27.6	100.0
Birth	4,585	17.9	18.4	18.7	67.7
Miscarriage	1,581				23.3
Ectopic Pregnancy	73				1.1
Not Yet Recorded	532				7.9

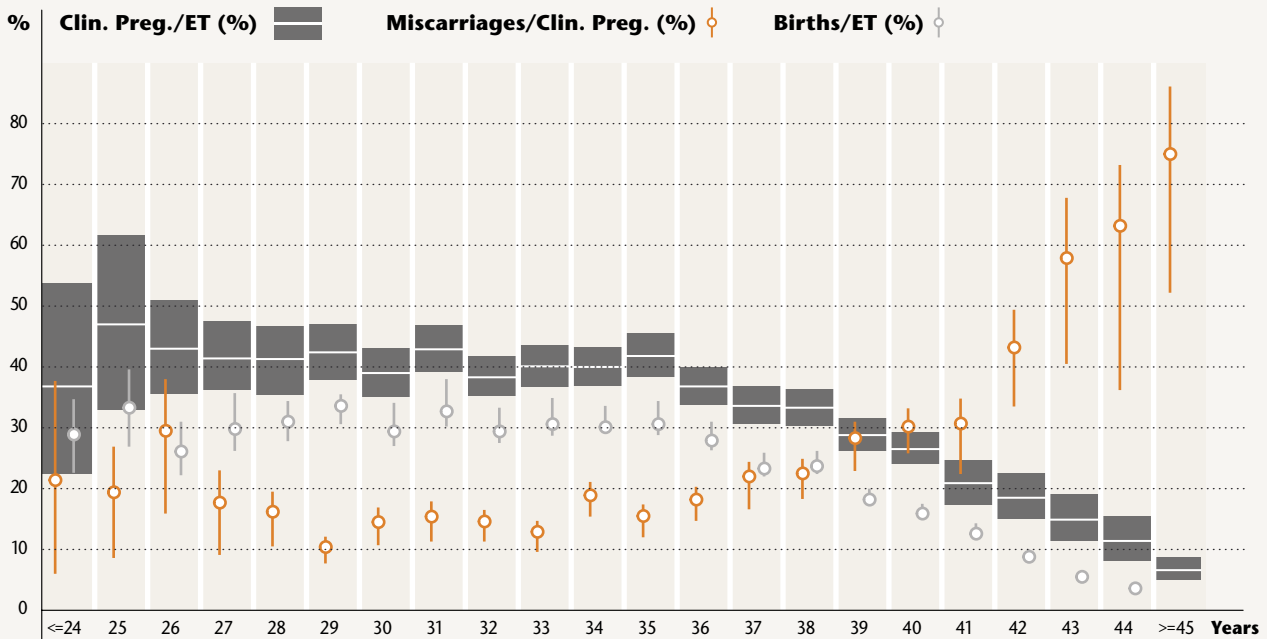
*) Successful fertilization of at least one oocyte per cycle

Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2017



Prospective Data

IVF 2017



n	38	66	142	191	329	429	582	652	751	833	886	960	1,000	892	896	1,006	1,074	484	400	255	166	121	ET
%	36.8	47.0	43.0	41.4	41.3	42.4	39.0	42.9	38.3	40.1	40.0	41.8	36.8	33.6	33.3	28.8	26.5	20.9	18.5	14.9	11.4	6.6	CP/ET
n	11	22	37	57	102	144	171	213	221	255	267	294	279	208	212	183	171	61	35	14	6	2	Birth

Age in Years	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Total
OPU	1,612	4,834	6,140	1,404	628	536	361	219	183	15,917
Oocytes ¹	11.7	10.5	8.5	7.3	6.3	6.2	5.6	5.2	4.8	9.0
Insemination ¹	11.5	10.2	8.3	7.1	6.1	6.1	5.5	5.2	4.7	8.8
ET	1,195	3,704	4,754	1,074	484	400	255	166	121	12,153
ET/OPU %	74.1	76.6	77.4	76.5	77.1	74.6	70.6	75.8	66.1	76.4
Trans. Embr. ¹	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.7	1.7	1.8
CP	503	1,483	1,657	285	101	74	38	19	8	4,168
CP/OPU %	31.2	30.7	27.0	20.3	16.1	13.8	10.5	8.7	4.4	26.2
CP/ET Upper Conf. Limit*%	45.8	43.0	36.1	29.3	24.7	22.5	19.1	15.5	8.7	35.7
CP/ET %	42.1	40.0	34.9	26.5	20.9	18.5	14.9	11.4	6.6	34.3
CP/ET Lower Conf. Limit*%	40.2	39.8	33.5	24.0	17.5	15.1	11.5	8.3	5.0	33.8
CP/ET %: 2 Embr. Transf. + min. 2 2-PN Surplus	44.3	43.3	38.7	30.4	23.7	19.5	16.8	15.0	7.3	37.9
Misc./CP Upper Conf. Limit*%	18.1	18.3	21.5	33.2	34.8	49.4	67.8	73.2	86.1	21.5
Misc./CP %	16.3	15.4	20.8	30.2	30.7	43.2	57.9	63.2	75.0	20.2
Misc./CP Lower Conf. Limit*%	12.0	14.6	17.3	25.8	22.4	33.5	40.5	36.2	52.2	19.1
Births/ET Upper Conf. Limit*%	34.1	31.5	25.0	17.5	14.3	10.0	6.4	4.2	1.9	24.8
Births/ET %	31.2	30.4	24.7	15.9	12.6	8.8	5.5	3.6	1.7	24.4
Births/ET Lower Conf. Limit*%	29.0	28.7	22.5	15.1	11.8	8.1	5.0	3.2	1.4	23.5

1) Mean

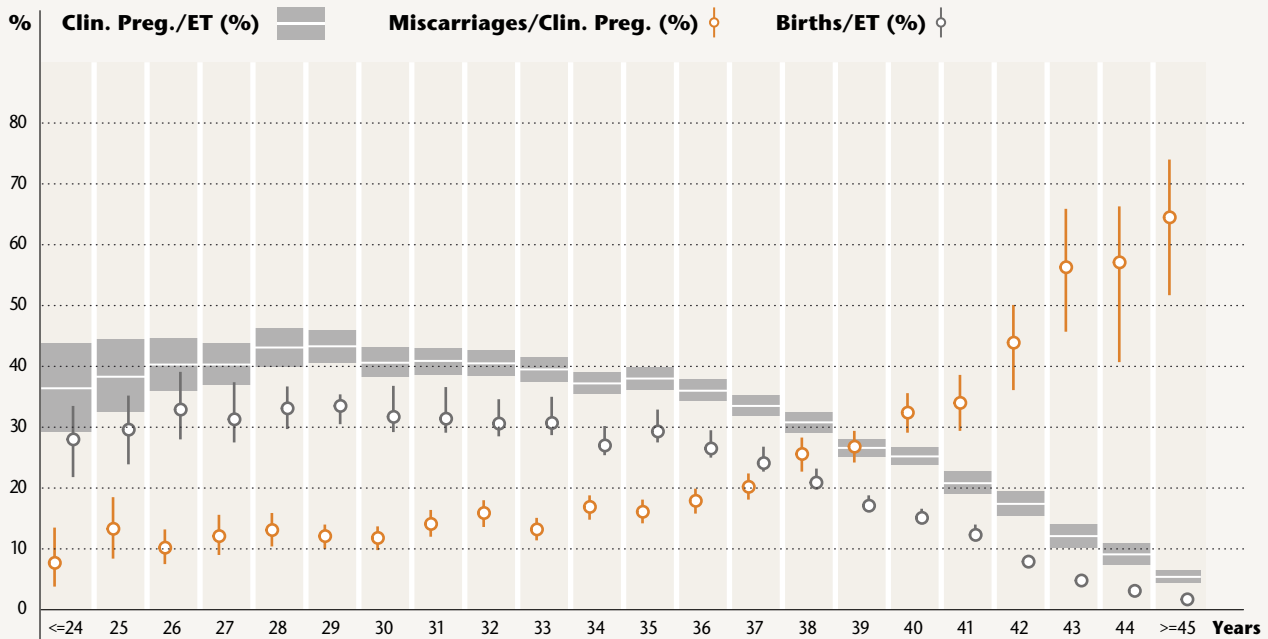
* With a 95%-probability, the true mean lies within the defined confidence interval.

Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2017



Prospective Data

ICSI 2017



	<=24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	>=45	ET
n	143	196	462	761	1,042	1,455	1,816	2,070	2,336	2,476	2,651	2,844	3,035	2,946	2,894	3,198	3,197	1,473	1,179	853	541	578	ET
%	36.4	38.3	40.3	40.3	43.1	43.3	40.6	40.9	40.5	39.5	37.2	38.0	36.0	33.5	30.8	26.6	25.2	20.8	17.4	12.1	9.1	5.4	CP/ET
n	40	58	152	238	345	487	576	651	714	759	717	833	804	710	606	548	483	181	93	41	17	10	Birth

Age in Years	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Total
OPU	4,846	13,370	17,665	3,858	1,860	1,504	1,118	743	842	45,806
Oocytes ¹	12.4	11.1	9.1	7.5	6.8	6.0	6.1	5.6	4.2	9.5
Insemination ¹	9.5	8.6	7.1	5.9	5.3	4.9	4.8	4.4	3.5	7.4
ET	4,059	11,349	14,917	3,197	1,473	1,179	853	541	578	38,146
ET/OPU %	83.8	84.9	84.4	82.9	79.2	78.4	76.3	72.8	68.6	83.3
Trans. Embr. ¹	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8
CP	1,699	4,491	4,899	805	306	205	103	49	31	12,588
CP/OPU %	35.1	33.6	27.7	20.9	16.5	13.6	9.2	6.6	3.7	27.5
CP/ET Upper Conf. Limit* %	43.4	40.5	33.6	26.7	22.7	19.4	14.1	11.0	6.5	33.5
CP/ET %	41.9	39.6	32.8	25.2	20.8	17.4	12.1	9.1	5.4	33.0
CP/ET Lower Conf. Limit* %	40.3	38.6	32.1	23.8	19.0	15.4	10.3	7.4	4.4	32.5
CP/ET %: 2 Embr. Transf. + min. 2 2-PN Surplus	43.4	42.4	36.2	28.8	24.5	19.7	14.4	12.2	13.1	36.6
Misc./CP Upper Conf. Limit* %	13.5	15.5	22.0	35.6	38.6	50.1	65.9	66.3	74.0	20.1
Misc./CP %	12.1	14.5	20.9	32.4	34.0	43.9	56.3	57.1	64.5	19.4
Misc./CP Lower Conf. Limit* %	10.8	14.2	19.9	29.1	29.4	36.1	45.7	40.7	51.7	18.7
Births/ET Upper Conf. Limit* %	34.0	30.8	24.2	16.6	14.0	9.0	5.6	3.6	2.0	24.2
Births/ET %	32.5	30.1	23.5	15.1	12.3	7.9	4.8	3.1	1.7	23.8
Births/ET Lower Conf. Limit* %	31.0	29.2	22.8	14.4	11.5	7.3	4.4	2.8	1.5	23.3

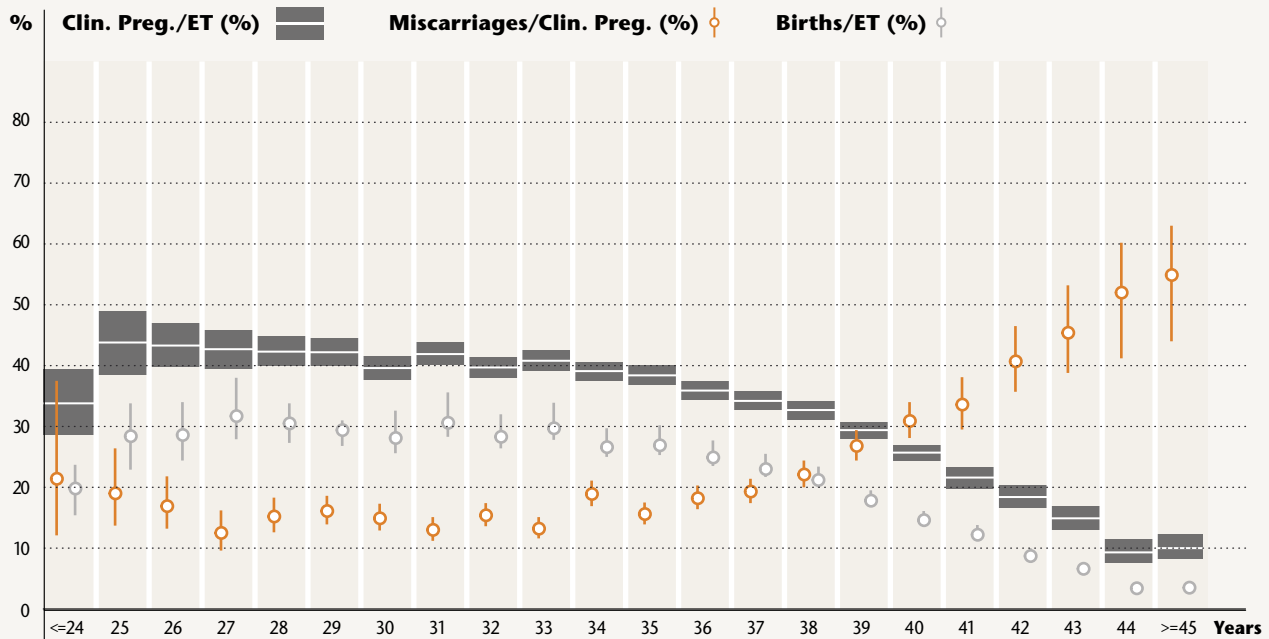
1) Mean

* With a 95%-probability, the true mean lies within the defined confidence interval.

Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2013 – 2017

Prospective Data

IVF 2013 – 2017



n	263	313	709	1,031	1,526	1,927	2,533	2,899	3,288	3,650	3,999	4,197	4,254	3,986	4,131	4,506	4,674	2,127	1,669	1,244	827	709	ET
%	33.8	43.8	43.3	42.7	42.3	42.2	39.6	41.9	39.7	40.8	39.1	38.4	35.9	34.2	32.7	29.4	25.7	21.6	18.4	14.9	9.3	10.0	CP/ET
n	52	89	203	327	465	566	712	887	931	1,083	1,063	1,129	1,058	915	874	800	684	259	146	82	28	25	Birth

Age in Years	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Total
OPU	7,082	19,573	25,098	5,637	2,623	2,064	1,582	1,056	931	65,646
Oocytes ¹	11.3	10.2	8.3	7.0	6.3	6.1	5.4	4.9	4.8	8.8
ET/OPU %	81.5	83.6	84.0	82.9	81.1	80.9	78.6	78.3	76.2	83.0
Trans. Embr. ¹	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
CP	2,433	6,577	7,175	1,199	459	307	185	77	71	18,483
CP/OPU %	34.4	33.6	28.6	21.3	17.5	14.9	11.7	7.3	7.6	28.2
CP/ET Upper Confidence Limit* %	43.4	40.9	34.7	27.0	23.4	20.3	16.9	11.4	12.2	34.3
CP/ET %	42.2	40.2	34.0	25.7	21.6	18.4	14.9	9.3	10.0	33.9
CP/ET Lower Confidence Limit* %	40.9	39.4	33.4	24.4	19.8	16.6	13.1	7.6	8.2	33.5
CP/ET %: 2 Embr. Transf. + min. 2 2-PN Surplus	44.5	43.2	37.3	29.4	25.0	21.6	17.9	11.3	11.5	37.4
Misc./CP Upper Confidence Limit* %	17.1	16.2	21.1	34.0	38.1	46.5	53.2	60.2	63.0	20.3
Misc./CP %	15.7	15.2	20.1	30.9	33.6	40.7	45.4	52.0	54.9	19.7
Misc./CP Lower Confidence Limit* %	14.3	14.4	19.3	28.1	29.5	35.7	38.8	41.2	44.0	19.1
Births/ET Upper Confidence Limit* %	30.6	29.3	23.2	16.1	13.8	10.0	7.7	3.9	4.0	23.0
Births/ET %	29.5	28.6	22.7	14.6	12.2	8.7	6.6	3.4	3.5	22.7
Births/ET Lower Confidence Limit* %	28.4	27.9	22.1	13.9	11.4	8.1	6.0	3.0	3.0	22.4

1) Mean

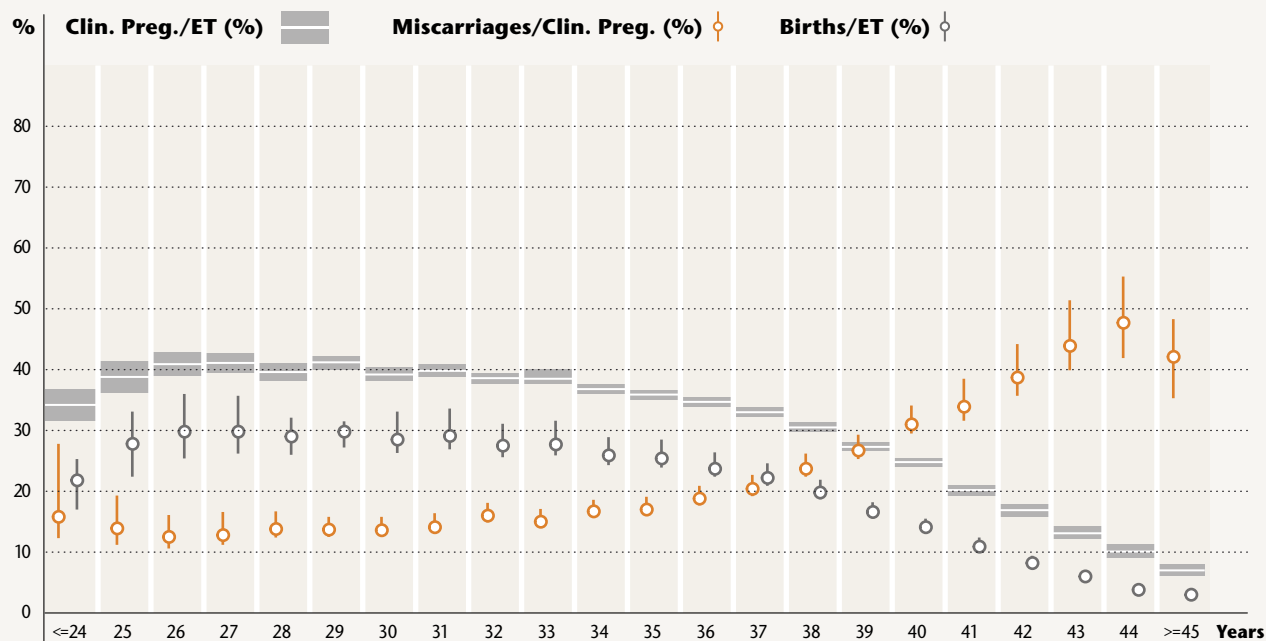
* With a 95%-probability, the true mean lies within the defined confidence interval.

Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2013 – 2017



Prospective Data

ICSI 2013 – 2017



n	1,426	1,277	2,457	3,667	4,983	6,628	8,152	9,779	11,168	12,187	12,988	13,812	13,934	13,558	13,223	14,564	14,163	7,186	5,718	4,096	2,525	2,605	ET
%	34.2	38.8	40.9	41.1	39.6	41.2	39.2	39.8	38.6	38.5	36.8	35.9	34.7	33.0	30.5	27.3	24.8	20.2	16.9	13.1	10.1	7.0	CP/ET
n	311	355	733	1,093	1,443	1,975	2,326	2,844	3,069	3,374	3,365	3,511	3,303	3,005	2,619	2,418	1,996	783	469	244	97	78	Birth

Age in Years	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Total
OPU	23,502	61,747	79,343	16,590	8,583	7,027	5,209	3,246	3,636	208,883
Oocytes ¹	9.3	8.6	7.1	6.0	5.3	5.1	4.7	4.5	3.8	7.4
ET/OPU %	90.8	91.3	90.3	89.3	88.1	86.6	83.7	83.0	78.6	90.0
Trans. Embr. ¹	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.8
CP	8,200	20,876	22,274	3,509	1,450	968	535	256	183	58,251
CP/OPU %	34.9	33.8	28.1	21.2	16.9	13.8	10.3	7.9	5.0	27.9
CP/ET Upper Confidence Limit* %	40.8	38.9	32.6	25.5	21.1	17.9	14.2	11.3	8.0	32.6
CP/ET %	40.1	38.5	32.2	24.8	20.2	16.9	13.1	10.1	7.0	32.3
CP/ET Lower Confidence Limit* %	39.4	38.1	31.9	24.1	19.3	15.9	12.1	9.0	6.1	32.1
CP/ET %: 2 Embr. Transf. + min. 2 2-PN Surplus	42.6	40.8	35.5	28.3	23.6	19.7	16.6	12.4	9.2	35.8
Misc./CP Upper Confidence Limit* %	14.3	15.7	21.6	34.1	38.5	44.2	51.4	55.3	48.3	19.8
Misc./CP %	13.6	15.2	21.0	31.0	33.9	38.7	43.9	47.7	42.1	19.5
Misc./CP Lower Confidence Limit* %	12.8	14.7	20.5	29.5	31.6	35.7	39.9	41.9	35.5	19.2
Births/ET Upper Confidence Limit* %	29.5	28.0	21.8	15.5	12.4	9.4	7.0	4.5	3.4	22.1
Births/ET %	28.9	27.6	21.5	14.1	10.9	8.2	6.0	3.8	3.0	21.9
Births/ET Lower Confidence Limit* %	28.3	27.2	21.2	13.4	10.2	7.6	5.4	3.4	2.5	21.7

1) Mean

* With a 95%-probability, the true mean lies within the defined confidence interval.

Clinical Pregnancies (CP)/ET as a Function of the Number of Embryos Transferred and Age Groups 2018



Prospective Data

IVF and ICSI

Age in Year	1 Embryo		2 Embryos		3 Embryos		Total	
	ET	CP/ET %	ET	CP/ET %	ET	CP/ET %	ET	CP/ET %
<= 24	264	26.5	449	35.6	23	26.1	736	32.1
25 – 29	1,846	33.9	4,940	42.1	90	31.1	6,876	39.8
30 – 34	4,724	30.2	11,275	40.3	337	35.6	16,336	37.3
35 – 39	6,078	21.6	12,988	33.8	849	29.8	19,915	29.9
40	618	15.0	1,090	23.6	128	24.2	1,836	20.8
41	566	15.0	853	20.8	126	20.6	1,545	18.6
42	431	7.7	539	18.2	131	20.6	1,101	14.4
43	302	6.6	332	11.1	110	10.9	744	9.3
44	144	4.9	161	9.9	45	2.2	350	6.9
45	73	2.7	57	1.8	22	0.0	152	2.0
>= 46	75	1.3	49	0.0	21	4.8	145	1.4
Total	15,121	24.3	32,733	35.9	1,882	26.8	49,736	32.1

Cryo Transfer

Age in Year	1 Embryo		2 Embryos		3 Embryos		Total	
	ET	CP/ET %	ET	CP/ET %	ET	CP/ET %	ET	CP/ET %
<= 24	87	20.7	139	25.2	8	0.0	234	22.6
25 – 29	650	28.9	1,725	30.8	59	15.3	2,434	30.0
30 – 34	2,054	25.2	4,400	31.1	166	32.5	6,620	29.3
35 – 39	2,188	22.5	4,138	28.0	295	23.1	6,621	26.0
40	220	18.2	474	19.2	75	22.7	769	19.2
41	153	17.6	282	17.7	37	18.9	472	17.8
42	90	14.4	150	16.7	29	27.6	269	17.1
43	56	10.7	95	12.6	21	9.5	172	11.7
44	27	3.7	44	9.1	9	22.2	80	7.6
45	14	7.1	14	0.0	7	14.3	35	8.6
>= 46	6	0.0	12	25.0	4	0.0	22	13.6
Total*	5,545	23.5	11,473	28.6	710	23.7	17,728	26.8

*) In 7,644 cases, resulting in an additional 2,557 pregnancies, no information has been available how many embryos had been transferred. This share is flashy in this annual and can only be corrected after editorial deadline.

Clinical Pregnancies (CP)/Fresh Transfer as a Function of Embryo Quality 2018

IVF, ICSI, IVF/ICSI – Prospective Data

Quality		<= 29 Years		30 – 34 Years		35 – 39 Years		>= 40 Years		Total	
Ideal	Not Ideal	ET	CP/ET %	ET	CP/ET %	ET	CP/ET %	ET	CP/ET %	ET	CP/ET %
0	1	309	16.8	656	11.7	971	8.2	357	5.6	2,293	10.3
0	2	419	19.3	902	25.6	1,173	19.7	309	13.6	2,803	20.8
0	3	3	33.3	27	18.5	47	23.4	30	8.7	107	19.6
1	0	1,801	35.8	4,068	33.2	5,107	24.2	1,852	12.9	12,828	26.8
1	1	575	35.8	1,256	35.3	1,645	27.5	401	17.7	3,877	30.0
1	2	4	0.0	29	13.8	81	23.5	43	12.1	157	16.6
2	0	4,395	44.5	9,117	42.5	10,170	36.4	2,371	25.5	26,053	38.4
2	1	16	31.3	34	29.4	108	22.2	100	22.4	258	22.9
3	0	90	31.1	247	40.9	613	32.5	410	23.5	1,360	29.3
Total		7,612	39.0	16,336	37.3	19,915	29.9	5,873	19.8	49,736	32.1

Clinical Pregnancies (CP)/Frozen Transfer as a Function of Embryo Quality 2018

Cryo Transfer – Prospective Data

Quality		IVF		ICSI	
ideal	Not Ideal	ET	CP/ET %	ET	CP/ET %
0	1	264	14.1	816	11.2
0	2	301	17.1	1,020	19.7
0	3	13	15.8	73	13.9
1	0	1,110	27.5	3,355	26.0
1	1	468	16.0	1,604	22.1
1	2	12	34.3	59	33.1
2	0	2,018	34.0	6,062	31.2
2	1	30	37.7	110	19.6
3	0	81	31.4	332	27.0
Total*		4,297	27.9	13,431	26.5

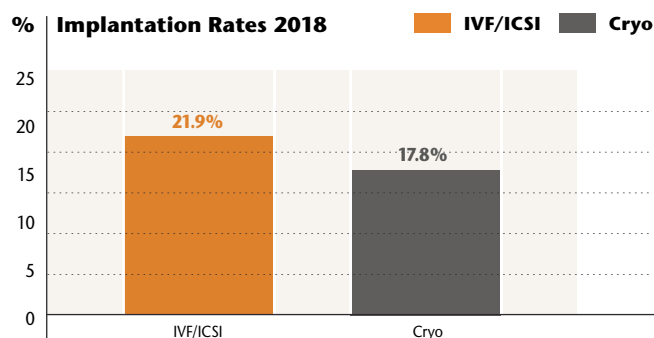
*) In 7,644 cases, resulting in an additional 2,557 pregnancies, no information has been available how many embryos had been transferred. This share is flashy in this annual and can only be corrected after editorial deadline.

Implantation Rates 2018

Prospective Data



	IVF/ICSI	Cryo
Transferred Embryos (n)	86,233	30,669
Amniotic Cavities or Sonographic Heart Sounds	18,681	5,376
EP (n)	229	78
Implantation Rate	21.9%	17.8%



Miscarriage (MISC) Rates as a Function of Female Age and Number of Embryos Transferred 2017

Prospective Data



IVF and ICSI

Age in Years	1 Embryo		2 Embryos		3 Embryos		Total	
	CP	MISC/CP %	CP	MISC/CP %	CP	MISC/CP %	CP	MISC/CP %
<= 24	35	11.4	98	10.2	27	33.3	160	14.4
25 – 29	329	14.6	1,739	12.8	31	9.7	2,099	13.1
30 – 34	1,009	16.6	4,826	14.3	151	16.6	5,986	14.6
35 – 39	1,168	22.8	5,065	20.5	309	17.5	6,542	21.0
40 – 44	407	40.5	1,271	35.3	257	36.6	1,935	37.0
>= 45	11	63.6	15	60.0	8	62.5	34	61.8
Total	2,959	22.2	13,014	18.6	783	24.3	16,756	19.6

Cryo

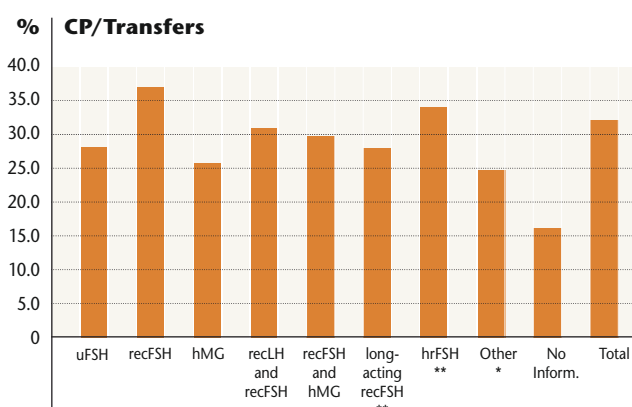
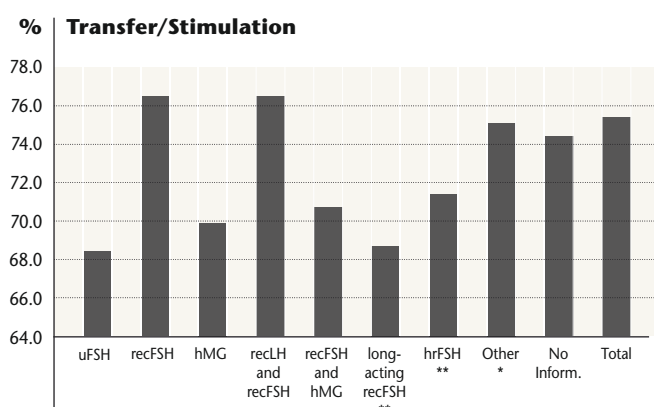
Age in Years	1 Embryo		2 Embryos		3 Embryos		Total	
	CP	MISC/CP %	CP	MISC/CP %	CP	MISC/CP %	CP	MISC/CP %
<= 24	21	4.8	32	52.6	1	0.0	54	38.5
25 – 29	64	35.9	261	27.2	19	47.7	344	29.9
30 – 34	249	32.6	860	29.2	59	28.7	1,168	29.9
35 – 39	293	35.1	824	34.2	66	39.4	1,183	34.7
40 – 44	93	46.2	217	42.9	42	55.1	352	45.2
>= 45	3	29.7	7	67.5	2	49.5	12	54.7
Total	723	34.9	2,202	32.7	189	41.7	3,114	33.7

*) In 3,657 cases, resulting in an additional 532 miscarriages, no information has been available how many embryos had been transferred. Correction could not be executed before editorial deadline.

Clinical Pregnancy Rate (CPR) as a Function of the Stimulation Protocol 2018

IVF, ICSI – Prospective Data

	uFSH	recFSH	hMG	recLH and recFSH	recFSH and hMG	long-acting recFSH**	hrFSH**	Other*	No Inform.	Total
Stimulations (n)	624	26,951	8,865	16,097	6,417	2,737	689	3,496	845	66,721
Transfers (n)	427	20,616	6,201	12,317	4,540	1,879	492	2,627	637	49,736
Transfer (%)	68.4	76.5	69.9	76.5	70.7	68.7	71.4	75.1	75.4	74.5
CP (n)	120	7,620	1,597	3,810	1,351	527	168	650	103	15,946
CP/ET (%)	28.1	37.0	25.8	30.9	29.8	28.0	34.1	24.7	16.2	32.1
Mean Age Woman treated	37.6	33.7	37.4	35.5	36.2	36.5	33.7	36.7	35.6	35.9

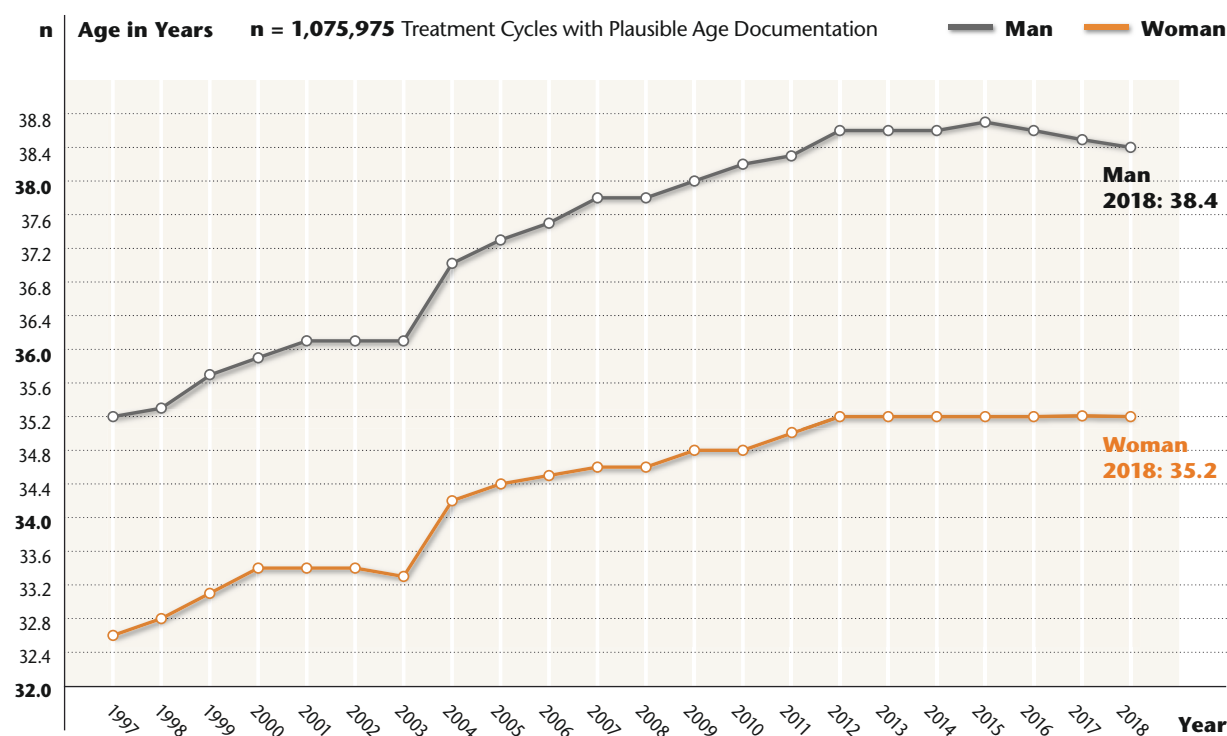


*) e.g. uFSH and hMG, Clomifen/recFSH, Clomifen/hMG etc.

**) These new groups are only be documented by the new D-I-R data set.

Mean Age for Women and Men 1997 – 2018

IVF, ICSI, IVF/ICSI – Prospective and Retrospective Data



Children as a Function of Week of Gestation (WoG) and Birth Weight (BW) 2017*

Singletons 2017

WoG	<25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	>41	Total
n	93	23	31	33	35	46	49	52	83	152	228	305	535	1,144	2,621	3,645	3,356	1,467	164	14,062
BW p25	468	700	625	860	944	1,175	1,235	1,465	1,490	1,885	2,000	2,320	2,515	2,770	2,990	3,104	3,260	3,380	3,340	3,130
BW Median	560	750	960	1,000	1,155	1,340	1,450	1,865	1,770	2,170	2,300	2,560	2,800	3,050	3,250	3,400	3,540	3,635	3,700	3,420
BW p75	640	930	1,213	1,170	1,615	1,540	1,780	1,935	2,200	2,430	2,540	2,821	3,080	3,363	3,550	3,700	3,820	3,950	3,980	3,810

Percentiles 2017: p25 = 38th WoG, p50 = 39th WoG, p75 = 40th WoG;

Percentiles 1997–2017: p25 = 38th WoG, p50 = 39th WoG, p75 = 40th WoG

Proportion of children born before the completion of the 37th WoG: 20.0%

Twins 2017

WoG	<25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	>40	Total
n	144	50	60	66	84	122	128	168	272	416	532	740	1,188	1,674	848	214	130	58	6,894
BW p25	447	710	730	945	988	1,150	1,306	1,410	1,560	1,798	1,910	2,120	2,334	2,480	2,560	2,700	2,655	2,400	2,120
BW Median	505	800	840	990	1,165	1,300	1,440	1,530	1,783	1,970	2,150	2,350	2,530	2,700	2,800	3,060	3,110	2,943	2,490
BW p75	618	868	970	1,130	1,246	1,420	1,593	1,740	1,963	2,150	2,385	2,600	2,740	2,930	3,050	3,405	3,457	3,346	2,760

Percentiles 2017: p25 = 34th WoG, p50 = 36th WoG, p75 = 37th WoG;

Percentiles 1997–2017: p25 = 34th WoG, p50 = 36th WoG, p75 = 37th WoG

Proportion of children born before the completion of the 37th WoG: 81.9%

Triplets 2017

WoG	24	25	26	27	28	29	30	31	32	33	34	35	>35	Total
n	12	6	15	6	18	30	27	24	63	54	42	21	9	327
BW p25	515	746	735	913	925	1,079	1,213	1,320	1,450	1,656	1,915	1,840	2,080	1,478
BW Median	550	760	835	1,153	1,000	1,300	1,385	1,508	1,685	1,780	2,090	1,880	2,360	1,790
BW p75	575	826	885	1,228	1,040	1,423	1,480	1,600	1,858	1,893	2,210	2,300	2,960	1,990

Percentiles 2017: p25 = 30th WoG, p50 = 32nd WoG, p75 = 33rd WoG;

Percentiles 1997–2017: p25 = 30th WoG, p50 = 32nd WoG, p75 = 33rd WoG

Proportion of children born before the completion of the 37th WoG: 100.0%

*) Children with plausible birth weight and week of gestation, using prospective and retrospective data

Children Born 1997–2017

Prospective and Retrospective Data

Total (IVF, ICSI, IVF/ICSI, Cryo Transfer)

	Singletons		Twins		Triplets		Quadruplets		Total
	n	%	n	%	n	%	n	%	n
1997	4,175	58.7	1,902	32.8	492	8.4	8	0.1	6,577
1998	5,357	58.2	3,152	34.2	702	7.6	0	-	9,211
1999	6,116	60.5	3,396	33.6	600	5.9	4	0.0	10,116
2000	6,143	60.5	3,504	34.5	507	5.0	4	0.0	10,158
2001	7,726	62.2	4,252	34.3	435	3.5	0	-	12,413
2002	8,930	63.8	4,662	33.3	387	2.8	8	0.1	13,987
2003	11,922	63.1	6,334	33.6	597	3.2	24	0.1	18,877
2004	6,891	65.6	3,336	31.8	273	2.6	0	-	10,500
2005	7,038	65.8	3,440	32.1	213	2.0	12	0.1	10,703
2006	7,419	66.9	3,450	31.1	222	2.0	4	0.0	11,095
2007	8,407	66.4	4,076	32.2	183	1.4	4	0.0	12,670
2008	8,444	65.7	4,142	32.3	240	1.9	8	0.1	12,834
2009	9,016	67.3	4,152	31.0	216	1.6	8	0.1	13,392
2010	8,619	66.2	4,156	31.9	249	1.9	0	-	13,024
2011	9,388	63.3	5,131	34.7	300	2.0	0	-	14,819
2012	10,188	66.4	4,906	32.0	249	1.6	0	-	15,343
2013	11,713	64.9	6,003	33.3	327	1.8	8	0.0	18,051
2014	13,092	65.5	6,566	32.9	309	1.5	12	0.1	19,979
2015	13,702	65.4	6,942	33.2	297	1.4	8	0.0	20,949
2016	13,692	66.0	6,800	32.8	258	1.2	4	0.0	20,754
2017	14,062	66.0	6,894	32.4	327	1.5	12	0.1	21,295
Total	192,040	64.7	97,196	32.8	7,383	2.5	128	0.0	296,747

MANNHEIM
Population of 309,370

AUGSBURG
Population of 295,135

296,747
Children born 1997 – 2017

Ovarian Hyperstimulation Syndrome (OHSS) as a Function of the Stimulation Protocol 2018

IVF, ICSI, IVF/ICSI – Prospective Data

	Stimulations	%	Oocytes Retrieved	Mean Age	OHSS III	OHSS III/Stim %
uFSH	624	0.9	7.5	37.6	0	0.0
recFSH	26,951	40.4	9.0	33.7	81	0.3
hMG	8,865	13.3	6.6	37.4	19	0.2
recLH + recFSH	16,097	24.1	6.4	35.5	48	0.3
recFSH + hMG	6,417	9.6	8.3	36.2	25	0.4
long-acting recFSH**	2,737	4.1	8.4	36.5	2	0.1
hrFSH**	689	1.0	9.2	33.7	3	0.4
Other*	3,496	5.2	8.3	36.7	12	0.3
No Information	845	1.3	6.9	35.6	3	0.4
Total	66,721	100.0	8.7	35.9	193	0.3

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

**) These new groups are only be documented by the new D-I-R data set.

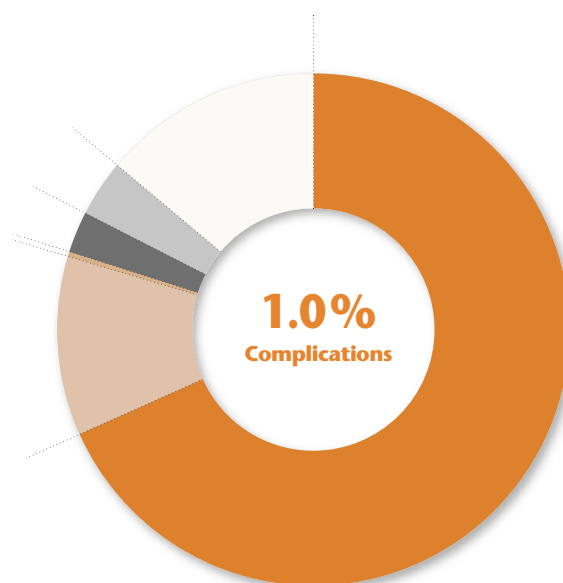
Complications as a Function of Ovum Pick-up (OPU) 2018

Prospective Data

Total OPU's 64,106 100.0%

No Information	0	0.0%
No Complications	63,449	99.0%
Complications	657	1.0%

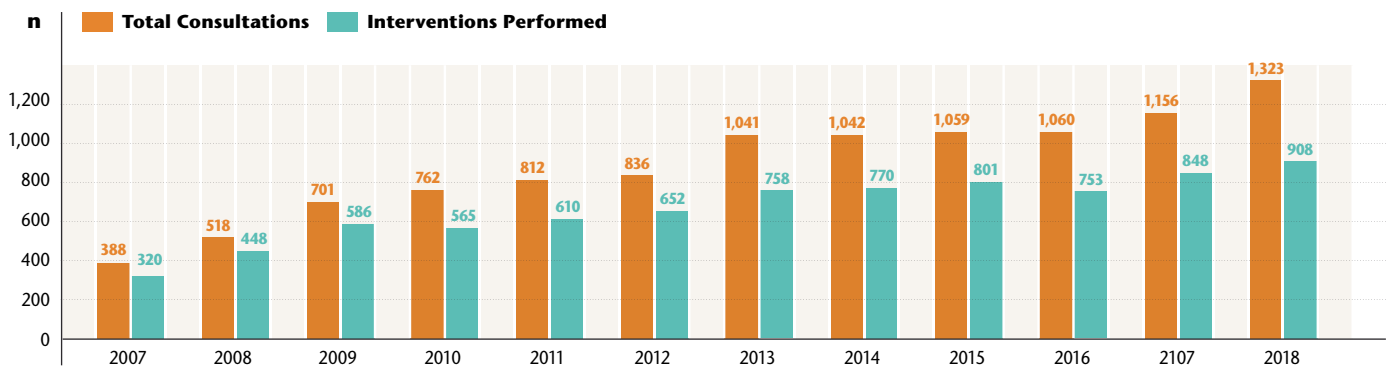
Complications	n	%
Vaginal Bleeding	449	68.3
Intraabdom. Bleeding	74	11.3
Intestinal Tract Injury	2	0.3
Peritonitis	17	2.6
Surgery	24	3.7
Other	91	13.9
Total	657	100.0



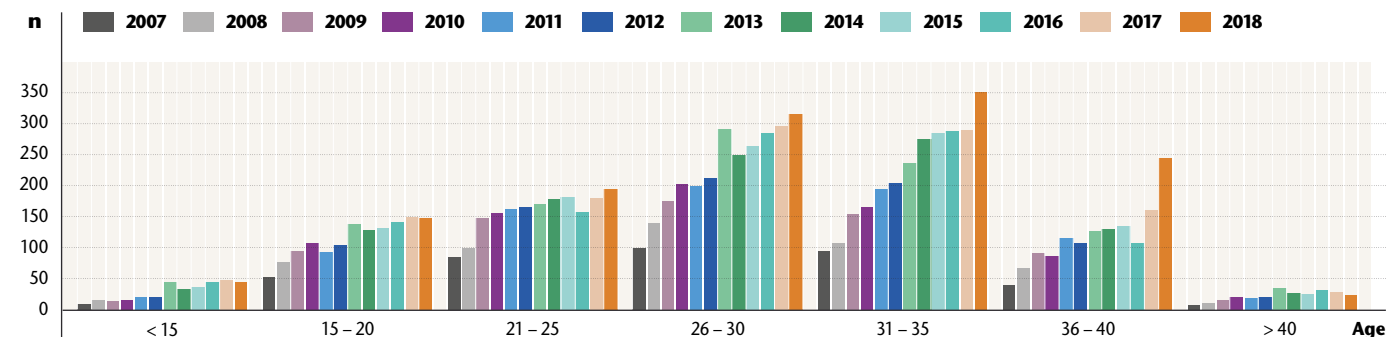
The *FertiPROTEKT* Netzwerk e.V. is an association of centres from Germany, Austria and Switzerland dealing with fertility preservation. The *FertiPROTEKT* network, founded in 2006, was registered as an association in Hamburg in 2015. The focus of the network is to provide advice on protecting fertility before planned treatments, such as chemotherapy, ovarian surgery or pelvic radiation impairing fertility. These therapies often take place within the framework of cancer treatment.

For the first time, *FertiPROTEKT* Netzwerk e.V. presents its registry data in the yearbook of the German IVF Registry (D-I-R)[®]. The focus is on the consultations and therapies that took place in 2018. In many cases, reference is made to previous years in accordance with the style of the annual register presentation of the *FertiPROTEKT* Netzwerk e.V..

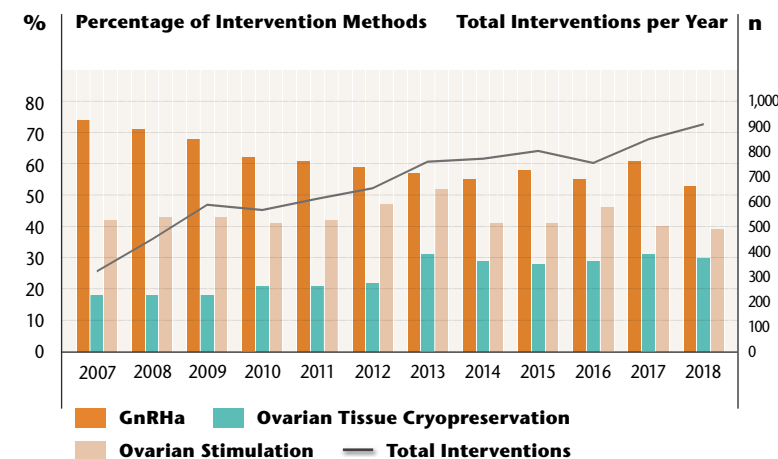
Consultations and Interventions



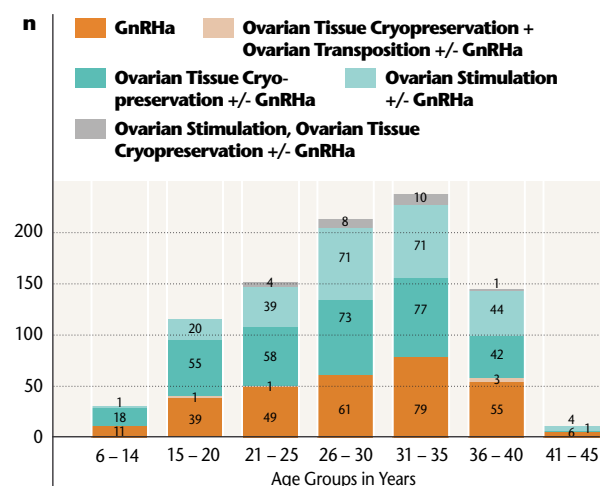
Age Distribution of Consultations



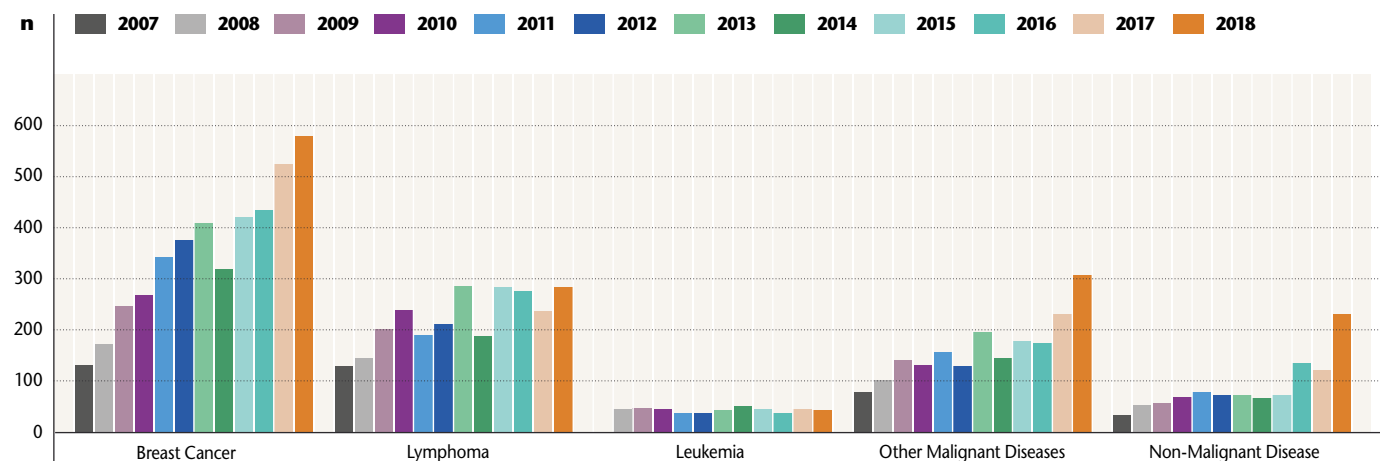
Frequency of Different Fertility Protection Methods



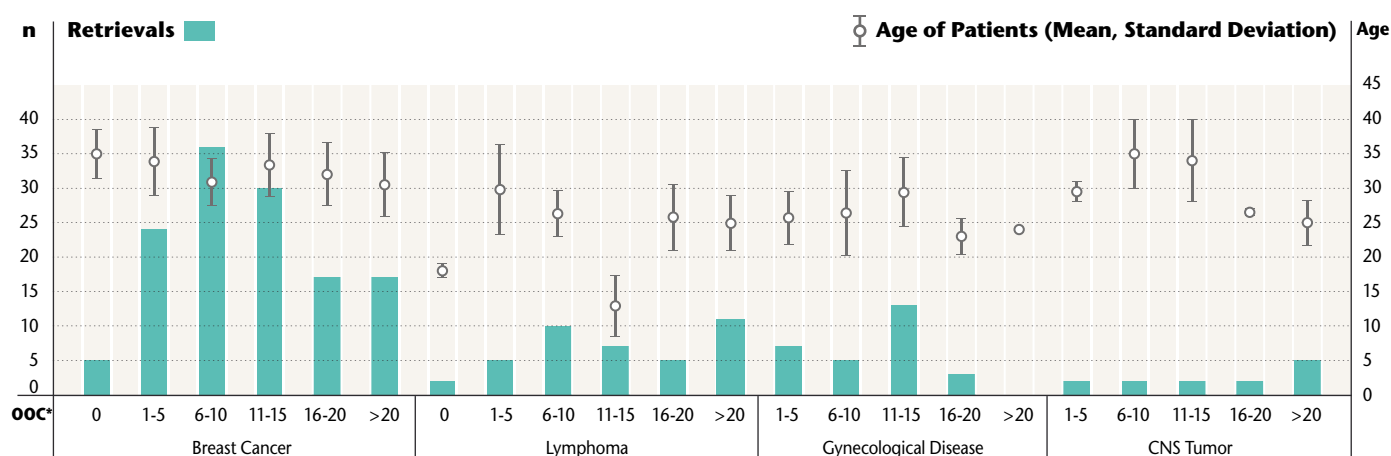
Interventions Carried out in 2018 by Age Group



Diagnoses at Consultation

FertiPROTEKT
Netzwerk für fertilitätsprotektive Maßnahmen

Number of Oocytes Retrieved Grouped by Age and Diagnosis

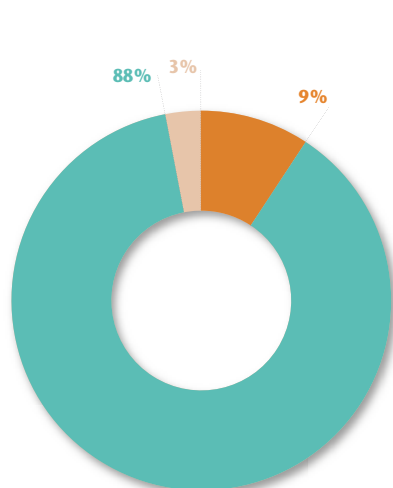
FertiPROTEKT
Netzwerk für fertilitätsprotektive Maßnahmen

*) OOC = Number of Oocytes

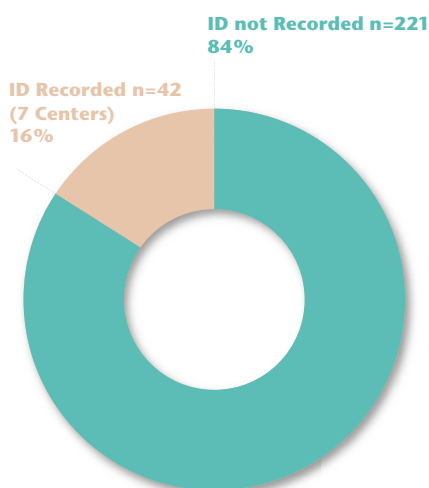
Counseling for Malignant Versus Non-Malignant Diseases 2018

FertiPROTEKT
Netzwerk für fertilitätsprotektive Maßnahmen

Non-Malignant Malignant Unknown



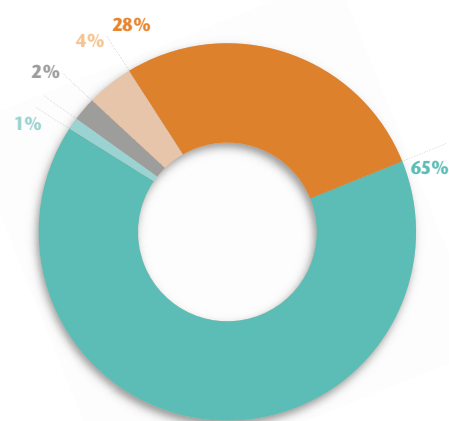
Cycles with FertiPROTEKT-ID Included in D-I-R Registry 2018 (55 Centers)

FertiPROTEKT
Netzwerk für fertilitätsprotektive Maßnahmen

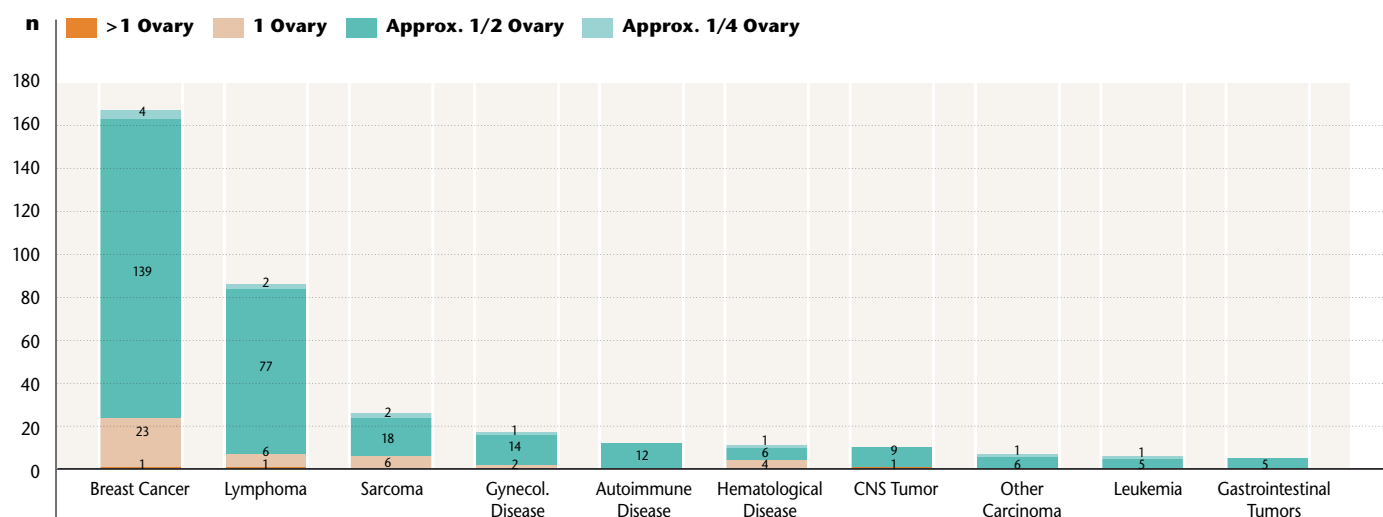
Cryopreserved Cell Types in FertiPROTEKT Registry 2018

FertiPROTEKT
Netzwerk für fertilitätsprotektive Maßnahmen

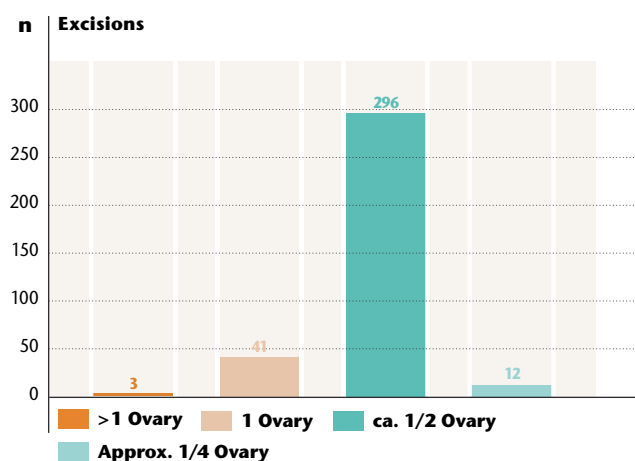
Unfertilised Oocytes Blastocysts No Cells Cryopreserved Unfertilised Oocytes plus PN Stages PN Stages



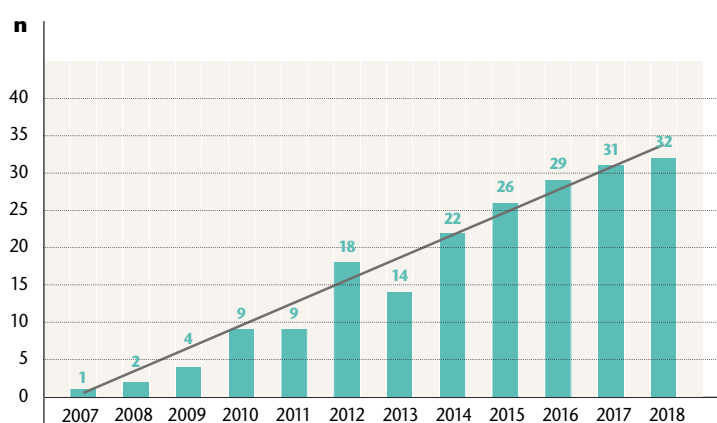
Ovarian Tissue Removed in 2018 for the 10 most Common Disease Groups



Amount of Ovarian Tissue Removed for Cryopreservation 2018

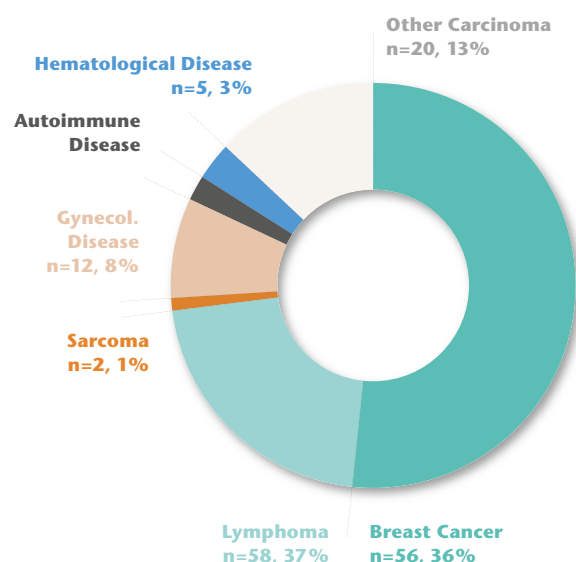


Number of Transplantations per Year from 2007 to 2018



The results concerning ovarian tissue transplantation are included for the first time in the yearbook of the German IVF Registry (D-I-R)[®]. In addition to the restitution of endocrine activity, they also show the number of spontaneous or post-assisted reproductive techniques (ART) pregnancies. The data represent the results of 25 university and non-university FertiPROTEKT centres (Germany: 20, Switzerland: 3, Austria: 2) since 2007.

Indications for a successful Transplantation from 2007 to 2018



Characteristics of Patients

	Total Number of Transplantations Performed (2007-2018) (n)	Total Number of Patients who Underwent at Least 1 Transplantation (n)	Age at Time of Cryopreservation*	Age at Time of Transplantation*	Storage Time of the Cryopreserved Ovarian Tissue*
All Transplantations	197	156	30.9 ± 5.3 Years	35.5 ± 4.8 Years	4.6 ± 0.5 Years
Only Transplantations After Overnight Transport	100	82	31.9 ± 5.0 Years	36.1 ± 4.3 Years	4.2 ± 0.7 Years

*) Mean ± Standard Deviation

Restitution of Endocrine Activity After Ovarian Transplantation

	Endocrine Activity After Transplantation Related to Total Number of Transplantations Performed (n)	Endocrine Activity After Transplantation Related to the Total Number of Transplanted Patients (n)	Patients Without POI* Before Transplantation Related to Total Number of Transplanted Patients (n)
All Transplantations	165/197 (83.8%)	129/156 (82.7%)	25/156 (16.0%)
Only Transplantations After Overnight Transport	91/100 (91.0%)	74/82 (90.3%)	10/82 (12.2%)

*) POI – Premature Ovarian Failure

Pregnancies After Transplantation of Cryopreserved Ovarian Tissue

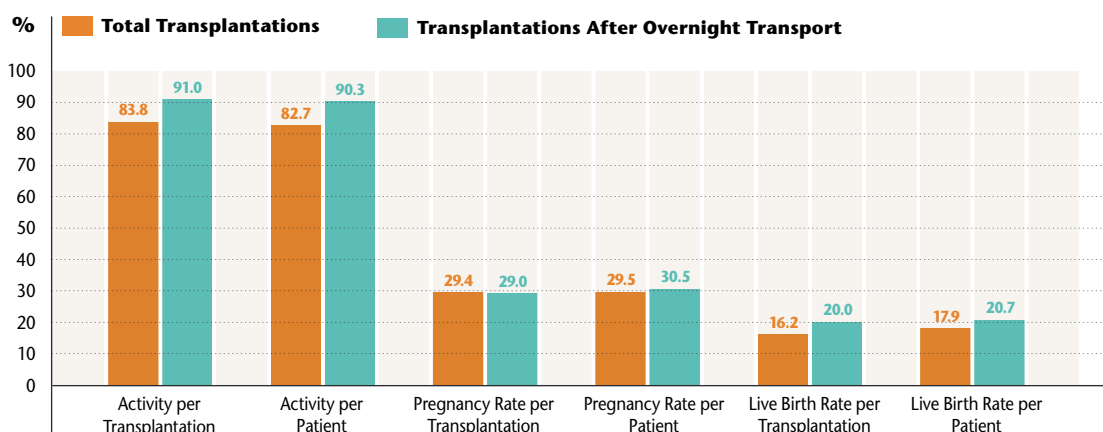
	Pregnancies in Relation to the Total Number of Transplantations Recorded (n)	Pregnancies in Relation to the Total Number of Transplanted Patients (n)	Spontaneous Conceptions Related to the Total Number of Pregnancies (n)	Conception by ART* in Relation to the Total Number of Pregnancies (n)	Unknown Type of Conception in Relation to Total Number of Pregnancies (n)
All Transplantations	58/197 (29.4%)	46/156 (29.5%)	39/58 (67.2%)	17/58 (29.3%)	2/58 (3.5%)
Only Transplantations After Overnight Transport	29/100 (29.0%)	25/82 (30.5%)	19/29 (65.5%)	10/29 (34.5%)	0/29 (0%)

*) ART – Assisted Reproductive Techniques

Births After Transplantation of Cryopreserved Ovarian Tissue

	Births Based on the Total Number of Transplantations Performed (n)	Births Based on Total Number of Transplanted Patients (n)	Ongoing Pregnancies in Relation to the Total Number of Transplanted Patients (n)
All Transplantations	32/197 (16.2%)	28/156 (17.9%)	5/156 (3.2%)
Only Transplantations After Overnight Transport	20/100 (20.0%)	17/82 (20.7%)	4/82 (4.9%)

Graphical Presentation of Success Rates



* The success rate percentages were calculated without considering age, transplantation site, number of transplantations, underlying disease or ovarian reserve (the latter being determined by the serum AMH before cryopreservation).

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