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**D.I.R-Annual 2017**

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# Contents

## Preface

### 217 D-I-R Annual 2017 – 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

## 218 Responsible for this Edition

## Tables

### 219 Number of Treatments in 2017

### 219 Number of Treatments 1982–2017

### 220 Number of Ovum Pick-Up Cycles (OPU) 1982–2017

### 220 Summary of Statistics in Brief 2016

### 221 D-I-R Statistics in Brief 2017

### 222 D-I-R Statistics in Brief 2016

### 223 Clinical Pregnancies (CP), Miscarriages (MISC), Ectopic Pregnancies (EP), Birth Rate and Children 2016

### 224 Birth Rate per Treatment Level in Fresh and Cryo Treatment Cycles 2015 and 2016

### 225 Births as a Function of Number of Embryos Transferred and Age Groups 2000–2016

### 226 Births as a Function of Number of Embryos Transferred and Treatment Method 2000–2016

### 227 Fertilisation Rate 2017

### 227 Embryos per Transfer and Children transferred after IVF, ICSI 1997–2016

### 228 Distribution of Indications 2017

### 229 IVF and ICSI 2016

### 230 Testicular Sperm Extraction (TESE) and Cryo Transfer 2016

### 231 Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2016

### 232 Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2016

### 233 Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2012–2016

### 234 Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2012–2016

### 235 Clinical Pregnancies (CP)/ET as a Function of the Number of Embryos Transferred and Age Groups 2017

### 236 Clinical Pregnancies (CP)/Fresh Transfer as a Function of Embryo Quality 2017

### 236 Clinical Pregnancies (CP)/Frozen Transfer as a Function of Embryo Quality 2017

### 237 Miscarriage (MISC) Rates as a Function of Female Age and Number of Embryos Transferred 2016

### 238 Clinical Pregnancy Rate (CPR) as a Function of the Stimulation Protocol 2017

### 238 Mean Age for Women and Men 1997–2017

### 239 Children as a Function of Week of Gestation (WoG) and Birth Weight (BW) 2016

### 240 Children Born 1997–2016

### 241 Ovarian Hyperstimulation Syndrome (OHSS) as a Function of the Stimulation Protocol 2017

### 241 Complications as a Function of Ovum Pick-up (OPU) 2017

## 242 List of D-I-R Members

## 249 Sponsors

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# Preface

## D-I-R Annual 2017 – 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

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Once again it is our great pleasure to present the 2017 annual report of the data collected by the German IVF-Registry (D-I-R). The 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 1.8 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 2017 is like the Yearbook 2016 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 2017 yearbook is based on exploitable exports from 134 centers, for which a number of 105,049 plausible cycles was

documented. A total of 68,605 women were treated in 2017, resulting in a mean of 1.6 cycles per woman. We are happy to note that the pregnancy rate per transfer in fresh cycles was at 31.4%, whereas the pregnancy rate per transfer in cryo cycles was 26.2%. In the previous year, 2016, the documented birth rate per embryo transfer was 22.5% in fresh cycles and 17.7% in cryo cycles, with a still very good general pregnancy outcome documentation of 89%.

Remarkably, 67.3% of the pregnancies led to a birth. A birth rate of 22.5% 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 2013; 56: 1633–41].

This year, again, particular attention was placed on the known problems of multiple pregnancies within ART cycles. In 2016, the rate of twin births was 21.1% in fresh cycles and 15.2% in cryo cycles. As this rate is still too high, we dedicated the editorial 2017 again to the motto „LESS is MORE“.

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 forbidden 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, improved oocyte treatment, and changes in transfer technology, the average number of transferred embryos has decreased by more than 25% in fresh cycles since 1997. By transferring no more than an average of 1.80 embryos after IVF and 1.83 after ICSI, the doctors for reproductive medicine in Germany have continued to adhere to their responsible approach towards the reduction of multiples.

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 2017 – Tables

## Number of Treatments in 2017

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



<b>Members of the German IVF-Registry 2017</b>	<b>n=136***</b>	
Registry Participants 2017*	n=134	
Data Received by Deadline Aug 29th 2018*	n=127	
Documented Treatment Cycles	n=109,779	(100.0%)
Plausible	n=105,049 of 109,779	(95.7%)
Prospective (all Cycles)	n=89,504 of 105,049	(85.2%)
Prospective (IVF, ICSI, IVF/ICSI)	n=54,057 of 63,606	(85.0%)
Number of Women Treated**	n=68,605	

**Mean Number of Treatment Cycles per Woman 1.6**

## Number of Treatments 1982 – 2017

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



	1982	1986	1990	[ ... ]	2002	2003	2004	[ ... ]	2013	2014	2015	2016	2017	Prospectivity 2017 in %
IVF	742	3,806	7,343	<i>For values from 1991 to 2001 see www.deutsches-ivf-register.de</i>	23,936	28,058	11,848	<i>For values from 2005 to 2012 see www.deutsches-ivf-register.de</i>	12,569	13,675	15,164	15,879	16,036	85.6
ICSI					37,692	51,389	25,339		42,381	44,427	48,674	48,690	46,394	85.6
IVF/ICSI					678	987	446		1,142	1,178	1,223	1,203	1,176	91.4
Cryo					14,923	14,265	16,883		20,633	21,893	23,571	25,008	27,050	86.8
None <sup>1</sup>					9,802	11,133	4,928		6,708	7,210	7,492	9,974	14,393	70.2
<b>Total plausible cycles<sup>2</sup></b>	<b>742</b>	<b>4,201</b>	<b>8,653</b>		<b>87,044</b>	<b>105,854</b>	<b>59,448</b>		<b>83,433</b>	<b>88,383</b>	<b>96,124</b>	<b>100,754</b>	<b>105,049</b>	<b>85.2</b>
Registry Participants	5	28	53		112	116	120		124	128	130	128	134	

\*) One center has still been without interface, six centers did not export with regard to due day, one center did not export for unknown reasons. 10 centers exported via the old interface, 124 centers exported via the new interface ARTbox®.

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

\*\*\*) Since the last annual, three new members have joined the Deutsches IVF-Register.

From 1999 on each initiated cycle is documented.

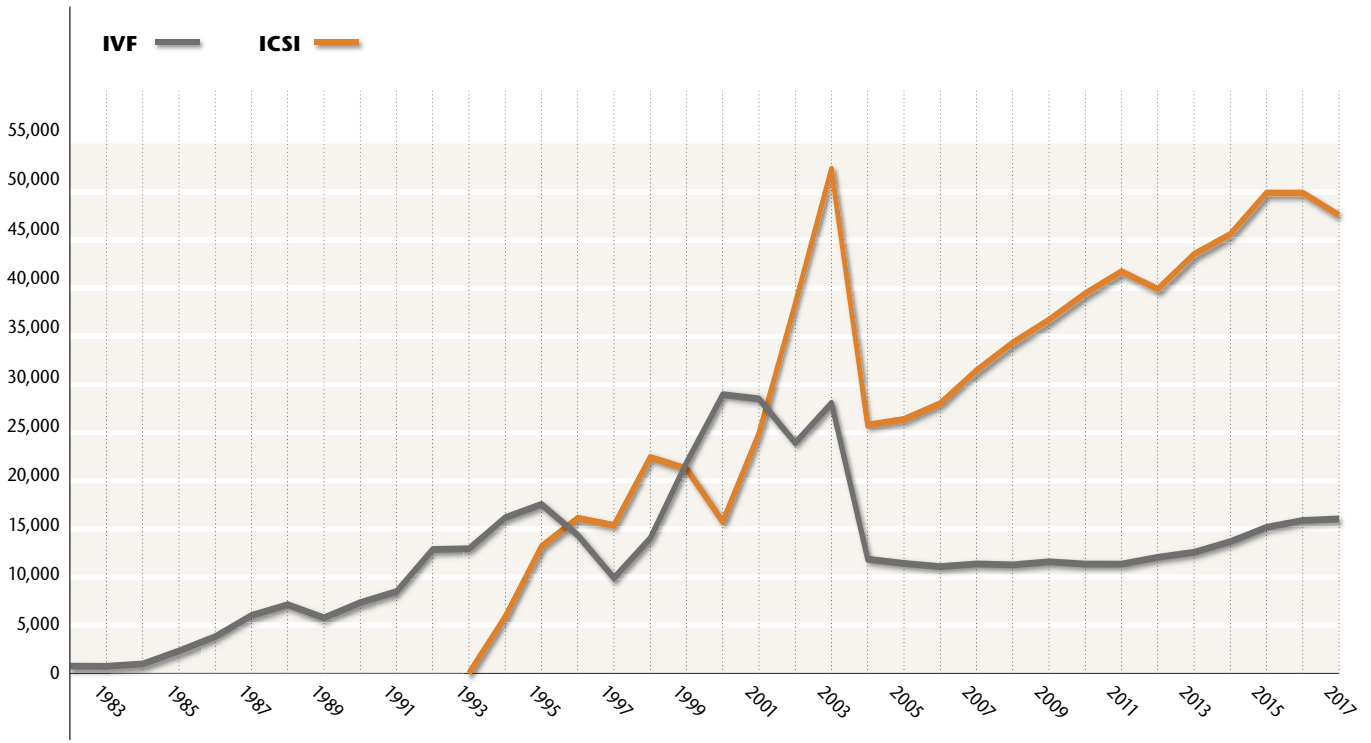
1) No treatment: treatments aborted prior to oocyte culture respectively before cryo-thawing.

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) 1982–2017



IVF, ICSI\* – Prospective and Retrospective Data



	1982	1986	1990	[ ... ]	2002	2003	2004	[ ... ]	2013	2014	2015	2016	2017
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 2012 see www.deutsches-ivf-register.de	12,569	13,675	15,164	15,879	16,036
ICSI					38,370	52,376	25,785		43,523	45,605	49,897	49,893	47,585
<b>Total</b>	<b>742</b>	<b>3,806</b>	<b>7,343</b>		<b>62,306</b>	<b>80,434</b>	<b>37,633</b>		<b>56,092</b>	<b>59,280</b>	<b>65,061</b>	<b>65,772</b>	<b>63,621</b>

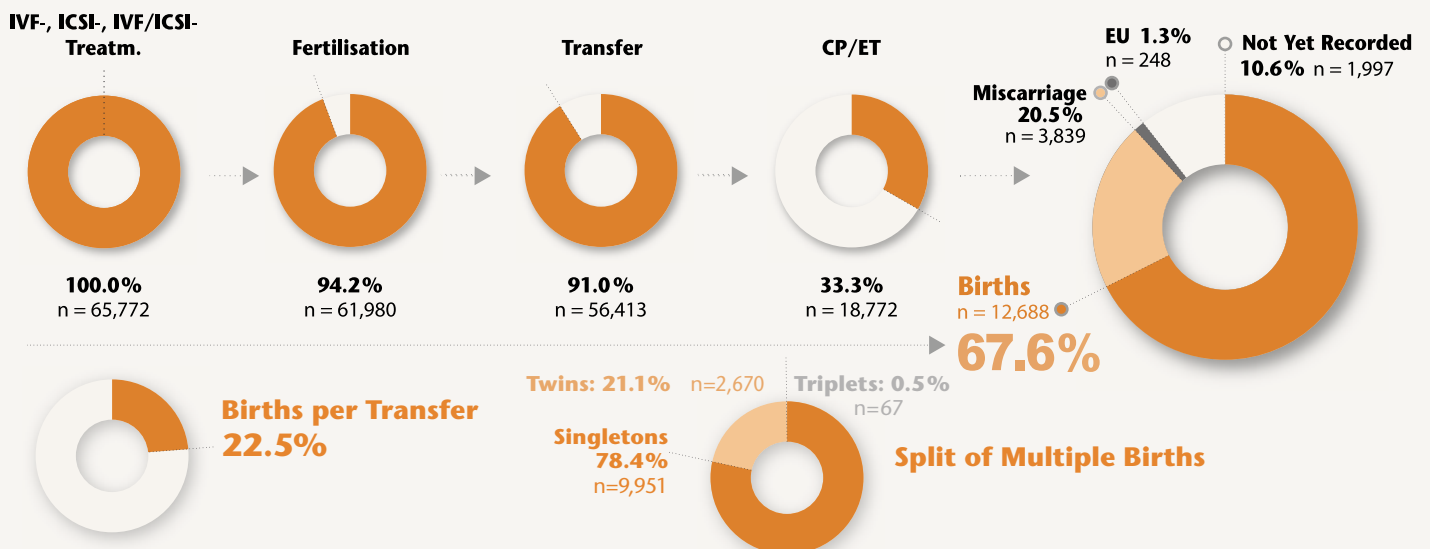
\*) OPUs leading to an IVF- and/or ICSI oocyte treatment

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

## Summary of Statistics in Brief 2016 – CoD Aug 29th 2018



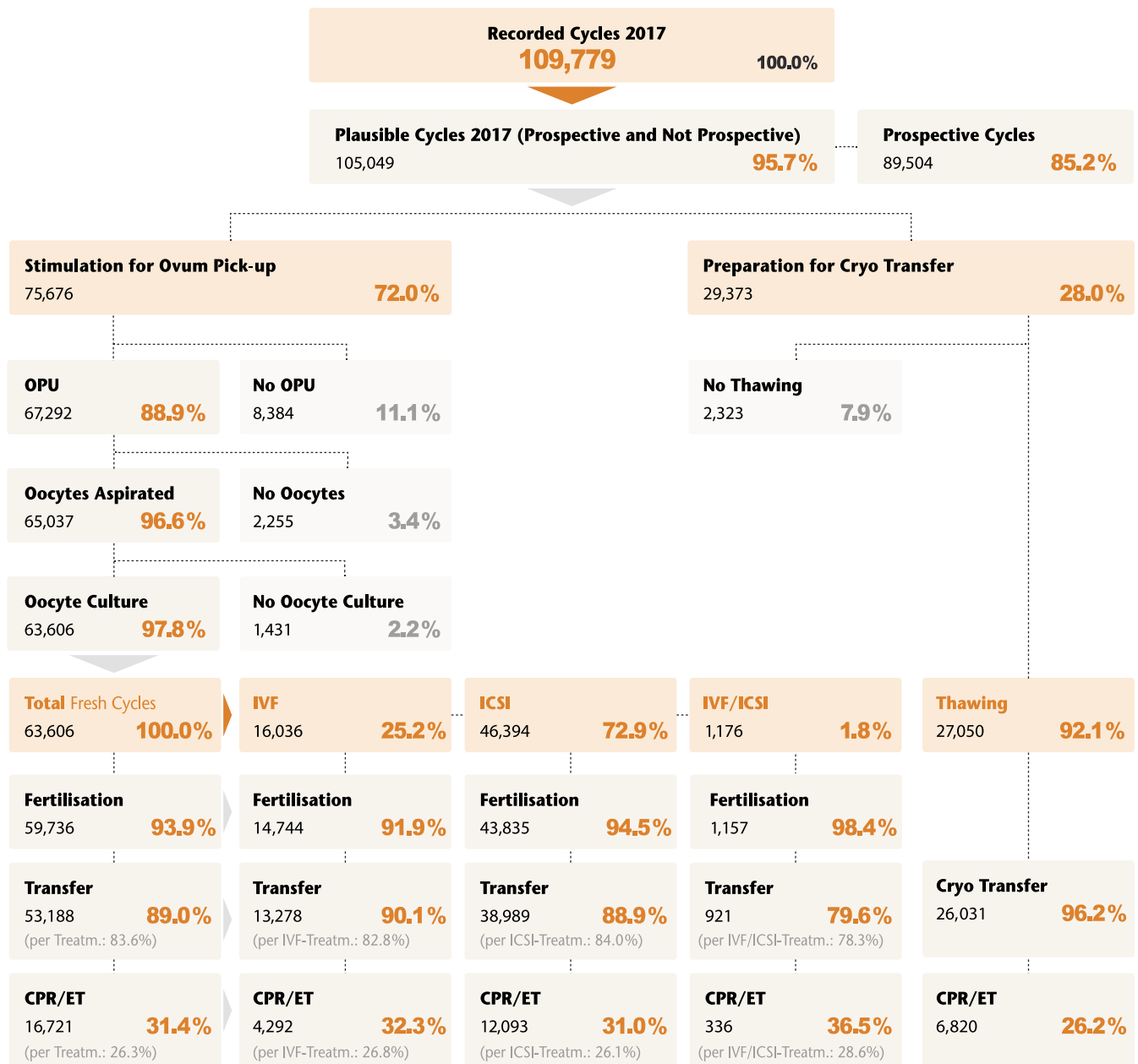
IVF, ICSI and IVF/ICSI – Prospective and Retrospective Data





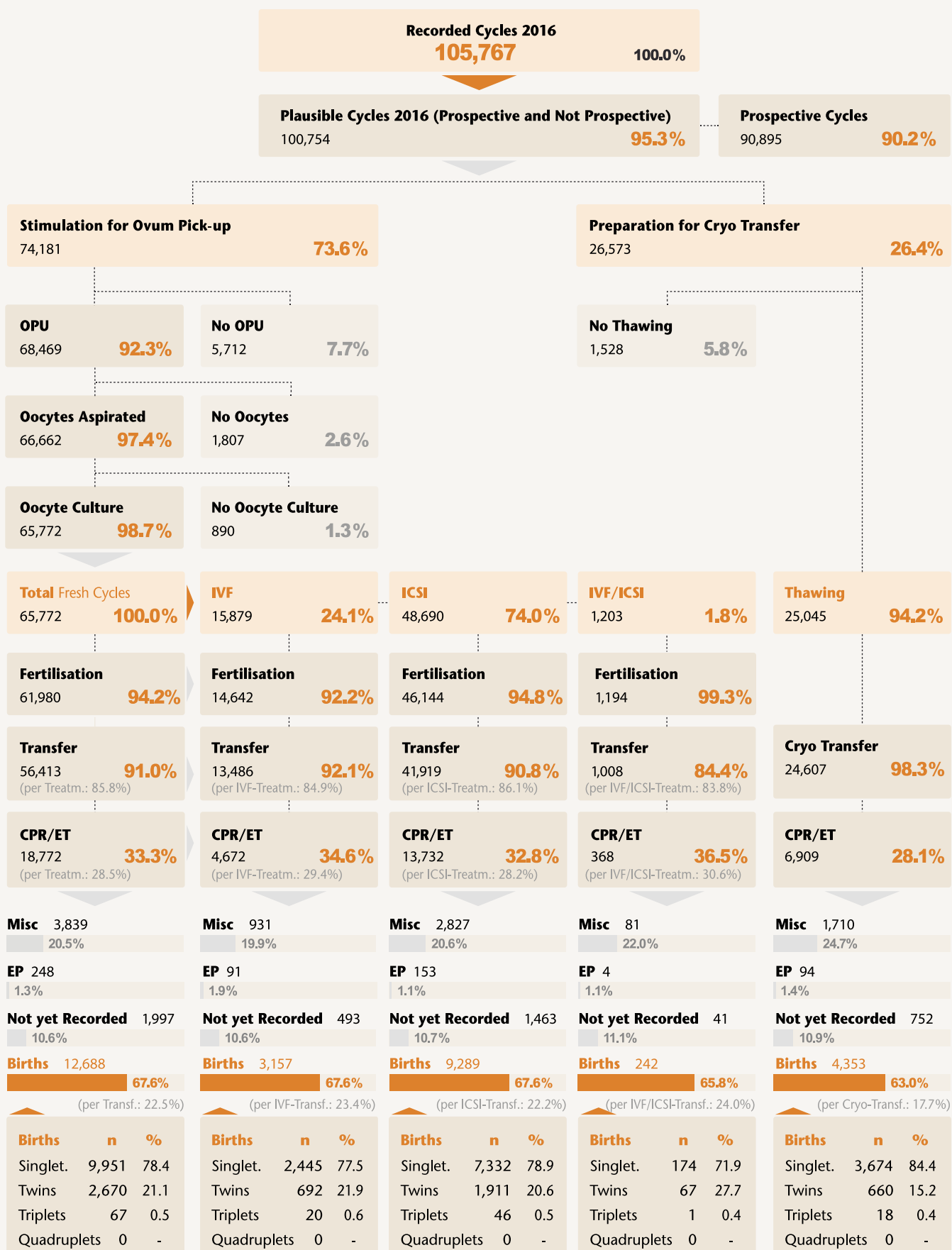
# D-I-R Statistics in Brief 2017 – CoD Aug 29th 2018

German IVF Registry – Prospective and Retrospective Data



# D-I-R Statistics in Brief 2016 – Aug 29th 2018

German IVF Registry – Prospective and Retrospective Data





# Clinical Pregnancies (CP), Miscarriages (MISC), Ectopic Pregnancies (EP), Birth Rate and Children 2016

## 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 26.7%, ICSI 24.4%, IVF/ICSI 28.1%

	IVF		ICSI		IVF/ICSI		Cryo Transfers	
	n	%	n	%	n	%	n	%
Treatment Cycles	15,879		48,690		1,203		25,045	
Treatments with documented pregnancy outcome	15,386		47,227		1,162		24,293	
Transfers	13,486		41,919		1,008		24,607	
Clinical Pregnancies	4,672	100.0	13,732	100.0	368	100.0	6,909	100.0
No Information	493	10.6	1,463	10.7	41	11.1	752	10.9
Live Births	3,157	67.6	9,289	67.6	242	65.8	4,353	63.0
Miscarriages	931	19.9	2,827	20.6	81	22.0	1,710	24.8
included above: induced abortions and fetal reduction*	38 (56)		119 (168)		3 (4)		49 (56)	
Ectopic Pregnancies	91	1.9	153	1.1	4	1.1	94	1.4
Children	3,889		11,292		311		5,052	
Still Births**	29	0.6	140	1.0	3	0.8	37	0.5
Malformations	41	0.9	161	1.2	7	1.9	64	0.9
Baby-Take-Home-Rate per Transfer***		23.4		19.1		24.0		17.7
Baby-Take-Home-Rate per Treatm.***		19.9		19.1		20.1		17.4
		20.5 <sup>1</sup>		19.7 <sup>1</sup>		20.8 <sup>1</sup>		17.9 <sup>1</sup>
		22.7 <sup>2</sup>		21.8 <sup>2</sup>		23.1 <sup>2</sup>		19.9 <sup>2</sup>

\* ) 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

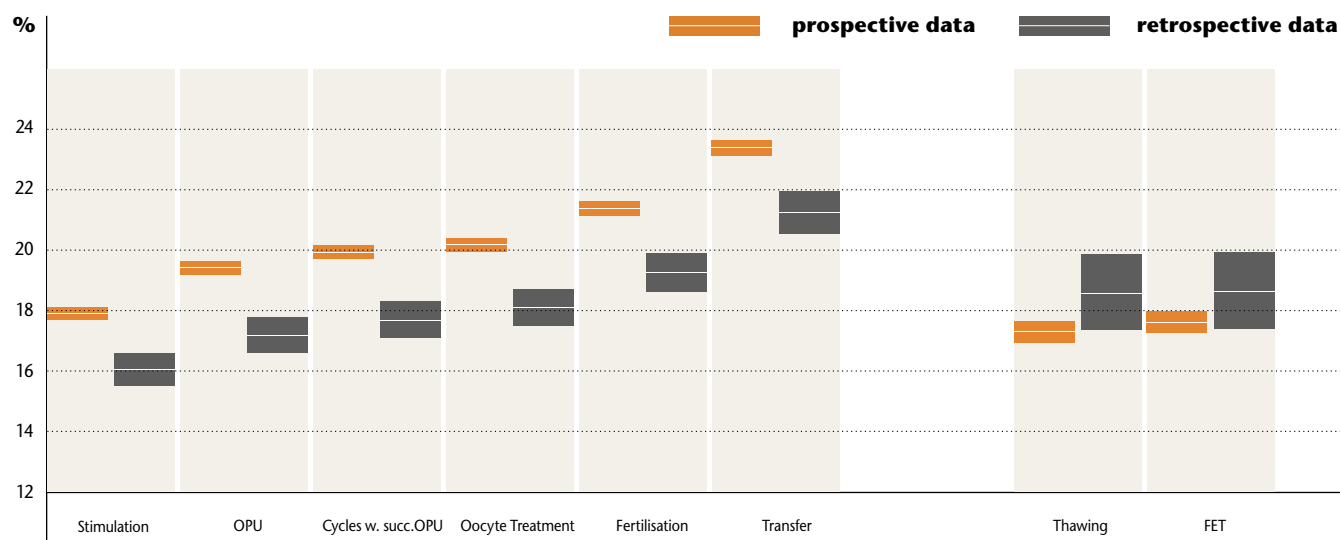
\*\*\* ) Percentage of births per number of treatments

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

<sup>2</sup>) 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 2015 and 2016

Prospective and Retrospective Data



	Stimulation	OPU	Cycles with successful OPU	Oocyte Treatment	Fertilisation	Transfer	Thawing	FET
Prospective Numbers	130,397	120,255	117,228	115,754	109,184	99,864	45,330	44,519
Birth	23,364	23,358	23,358	23,364	23,358	23,358	7,843	7,843
Upper Confid. Limit*	18.1	19.6	20.2	20.4	21.6	23.7	17.7	18.0
Birth/Treatm. %	17.9	19.4	19.9	20.2	21.4	23.4	17.3	17.6
Lower Confid. Limit*	17.7	19.2	19.7	20.0	21.2	23.1	17.0	17.3
Retrospective Numbers	17,362	16,194	15,727	15,372	14,436	13,090	3,684	3,668
Birth	2,787	2,781	2,781	2,781	2,781	2,781	684	684
Upper Confid. Limit*	16.6	17.8	18.3	18.7	19.9	22.0	19.9	19.9
Birth/Treatm. %	16.1	17.2	17.7	18.1	19.3	21.2	18.6	18.6
Lower Confid. Limit*	15.5	16.6	17.1	17.5	18.6	20.6	17.3	17.4

\* 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 – 2016

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
<b>&lt;= 24</b>	1 Embryo	209	98.1	4	1.9	0	-	0	-	213
	2 Embryos	1,795	76.0	557	23.6	10	0.4	0	-	2,362
	3 Embryos	278	67.6	111	27.0	20	4.9	2	0.5	411
	<b>Total</b>	<b>2,282</b>	<b>76.4</b>	<b>672</b>	<b>22.5</b>	<b>30</b>	<b>1.0</b>	<b>2</b>	<b>0.1</b>	<b>2,986</b>
<b>25 – 29</b>	1 Embryo	2,542	95.6	109	4.1	9	0.3	0	-	2,660
	2 Embryos	20,610	74.8	6,816	24.7	137	0.5	5	0.0	27,568
	3 Embryos	2,975	69.7	1,064	24.9	228	5.3	3	0.1	4,270
	<b>Total</b>	<b>26,127</b>	<b>75.7</b>	<b>7,989</b>	<b>23.2</b>	<b>374</b>	<b>1.1</b>	<b>8</b>	<b>0.0</b>	<b>34,498</b>
<b>30 – 34</b>	1 Embryo	7,245	96.9	221	3.0	11	0.1	0	-	7,477
	2 Embryos	47,932	76.2	14,728	23.4	268	0.4	3	0.0	62,931
	3 Embryos	8,461	71.0	2,965	24.9	478	4.0	7	0.1	11,911
	<b>Total</b>	<b>63,638</b>	<b>77.3</b>	<b>17,914</b>	<b>21.8</b>	<b>757</b>	<b>0.9</b>	<b>10</b>	<b>0.0</b>	<b>82,319</b>
<b>35 – 39</b>	1 Embryo	7,303	97.4	191	2.5	6	0.1	0	-	7,500
	2 Embryos	38,026	81.2	8,642	18.4	177	0.4	2	0.0	46,847
	3 Embryos	12,114	77.2	3,227	20.6	351	2.2	2	0.0	15,694
	<b>Total</b>	<b>57,443</b>	<b>82.0</b>	<b>12,060</b>	<b>17.2</b>	<b>534</b>	<b>0.8</b>	<b>4</b>	<b>0.0</b>	<b>70,041</b>
<b>&gt;= 40</b>	1 Embryo	1,851	96.4	68	3.5	2	0.1	0	-	1,921
	2 Embryos	6,516	88.4	837	11.4	14	0.2	1	0.0	7,368
	3 Embryos	3,580	86.9	507	12.3	32	0.8	0	-	4,119
	<b>Total</b>	<b>11,947</b>	<b>89.1</b>	<b>1,412</b>	<b>10.5</b>	<b>48</b>	<b>0.4</b>	<b>1</b>	<b>0.0</b>	<b>13,408</b>

Total number of births 2000 – 2016: 203,252

# Births as a Function of Number of Embryos Transferred and Treatment Method 2000 – 2016

Prospective and Retrospective Data

## IVF

	Singletons		Twins		Triplets		Quadruplets		Total
	n	%	n	%	n	%	n	%	
1 Embryo	3,822	98.4	57	1.5	4	0.1	0	-	3,883
2 Embryos	26,050	76.5	7,863	23.1	144	0.4	1	0.0	34,058
3 Embryos	6,385	68.7	2,522	27.1	385	4.1	6	0.1	9,298
<b>Total</b>	<b>36,257</b>	<b>76.8</b>	<b>10,442</b>	<b>22.1</b>	<b>533</b>	<b>1.1</b>	<b>7</b>	<b>0.0</b>	<b>47,239</b>

## ICSI

	Singletons		Twins		Triplets		Quadruplets		Total
	n	%	n	%	n	%	n	%	
1 Embryo	10,221	98.1	188	1.8	12	0.1	0	-	10,421
2 Embryos	67,876	77.8	19,078	21.9	294	0.3	6	0.0	87,254
3 Embryos	14,771	75.1	4,273	21.7	611	3.1	6	0.0	19,661
<b>Total</b>	<b>92,868</b>	<b>79.1</b>	<b>23,539</b>	<b>20.1</b>	<b>917</b>	<b>0.8</b>	<b>12</b>	<b>0.0</b>	<b>117,336</b>

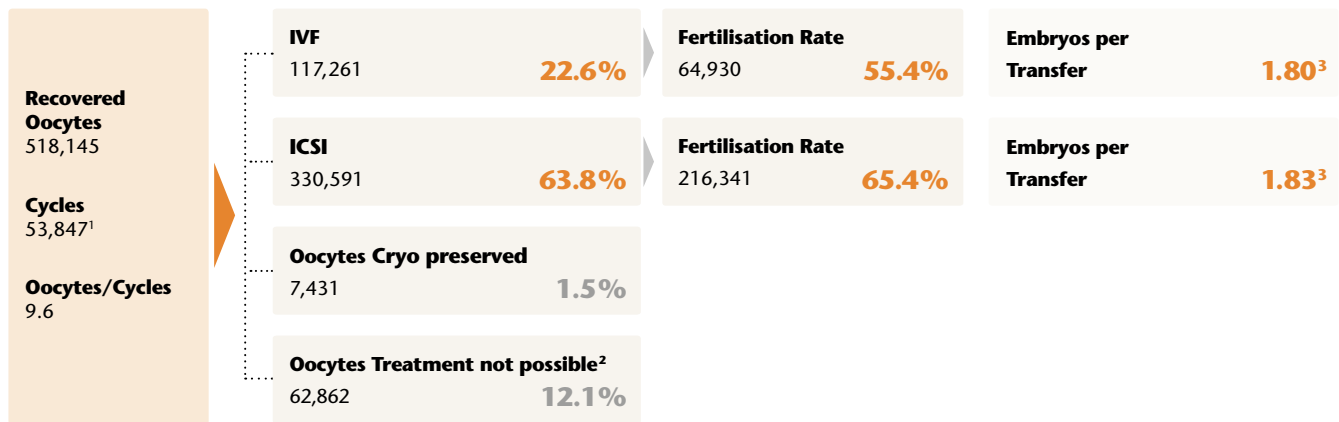
## Cryo Transfer

	Singletons		Twins		Triplets		Quadruplets		Total
	n	%	n	%	n	%	n	%	
1 Embryo	5,317	97.3	140	2.6	10	0.2	0	-	5,467
2 Embryos	21,685	84.2	3,984	15.5	94	0.4	1	0.0	25,764
3 Embryos	5,799	77.9	1,484	19.9	162	2.2	1	0.0	7,446
<b>Total</b>	<b>32,801</b>	<b>84.8</b>	<b>5,608</b>	<b>14.5</b>	<b>266</b>	<b>0.7</b>	<b>2</b>	<b>0.0</b>	<b>38,677</b>



# Fertilisation Rate 2017

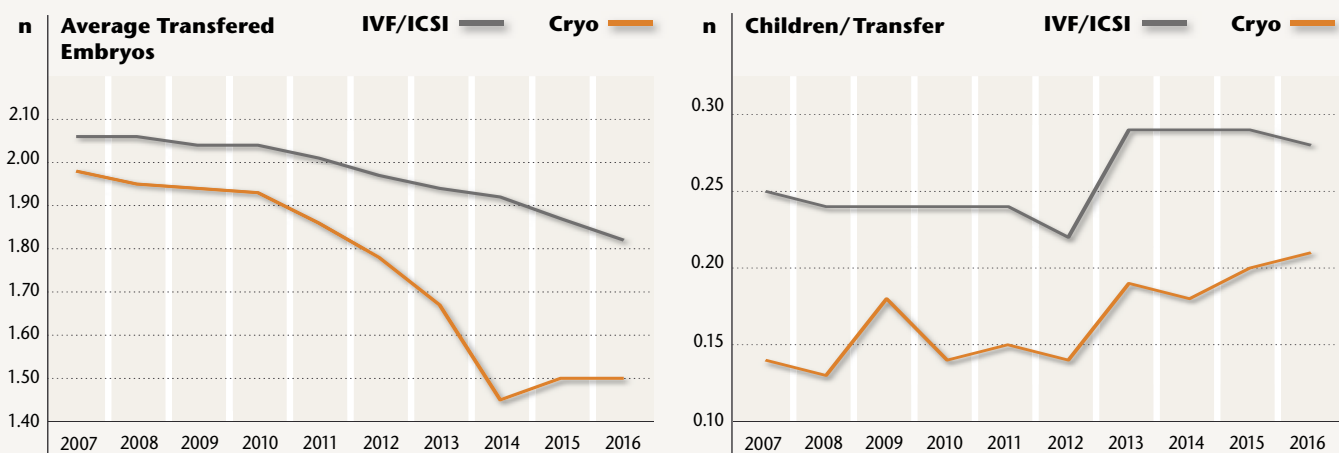
## IVF and ICSI – Prospective Data



# Embryos per Transfer<sup>3</sup> and Children transferred after IVF, ICSI 1997–2016



## Prospective and Retrospective Data



		1997	[ ... ]	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>IVF</b>	Embryos Transf.	2.49	<i>For values from 1998 to 2005 see www.deutsches-ivf-register.de</i>	2.08	2.08	2.06	2.03	2.01	1.95	1.88	1.86	1.75	1.80	1.80
	Children/Transf.	0.21		0.25	0.25	0.24	0.24	0.22	0.17	0.26	0.32	0.30	0.30	0.28
	Children/Deliv.	1.31		1.23	1.24	1.24	1.22	1.24	1.26	1.22	1.08	1.25	1.24	1.23
<b>ICSI</b>	Embryos Transf.	2.56		2.09	2.08	2.08	2.06	2.05	1.98	1.91	1.88	1.88	1.90	1.83
	Children/Transf.	0.22		0.24	0.24	0.23	0.23	0.22	0.16	0.25	0.28	0.29	0.29	0.27
	Children/Deliv.	1.29		1.20	1.21	1.22	1.21	1.21	1.22	1.21	1.22	1.22	1.22	1.21
<b>Cryo Transfer</b>	Embryos Transf.	2.34		2.10	2.07	2.07	2.05	2.04	1.96	1.79	1.65	1.45	1.50	1.50
	Children/Transf.	0.10		0.14	0.14	0.14	0.14	0.14	0.11	0.16	0.19	0.18	0.20	0.21
	Children/Deliv.	1.14		1.16	1.16	1.15	1.16	1.16	1.18	1.16	1.16	1.16	1.17	1.16

1) In 345 cases no IVF- or ICSI treatment was performed. 102 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 2017

## IVF and ICSI – Prospective Data

### IVF

Male Factor ▶	Normal		Reduced Semen Quality		Other**		Total	
	n	%	n	%	n	%	n	%
<b>Female Factor ▼</b>								
Normal	1,591	11.6	615	4.5	1,031	7.5	3,237	23.6
Tubal Pathology	1,650	12.0	499	3.6	739	5.4	2,888	21.0
Endometriosis	861	6.3	241	1.8	498	3.6	1,600	11.7
Hyperandrog./PCO	427	3.1	124	0.9	183	1.3	734	5.3
Ovulatory Dysf.	574	4.2	224	1.6	231	1.7	1,029	7.5
Psychogen. Factors	182	1.3	49	0.4	91	0.7	322	2.3
Other*	974	7.1	560	4.1	1,645	12.0	3,179	23.1
No Information	21	0.2	4	0.0	719	5.2	744	5.4
<b>Total</b>	<b>6,280</b>	<b>45.7</b>	<b>2,316</b>	<b>16.9</b>	<b>5,137</b>	<b>37.4</b>	<b>13,733</b>	<b>100.0</b>

### ICSI

Male Factor ▶	Normal		Reduced Semen Qual.		Azoospermia		Other**		Total	
	n	%	n	%	n	%	n	%	n	%
<b>Female Factor ▼</b>										
Normal	1,089	2.7	11,045	27.1	989	2.4	3,704	9.1	16,827	41.3
Tubal Pathology	503	1.2	1,320	3.2	66	0.2	756	1.9	2,645	6.5
Endometriosis	351	0.9	1,568	3.8	56	0.1	798	2.0	2,773	6.8
Hyperandrog./PCO	125	0.3	958	2.3	59	0.1	542	1.3	1,684	4.1
Ovulatory Dysf.	273	0.7	1,653	4.1	145	0.4	754	1.8	2,825	6.9
Psychogen. Factors	81	0.2	416	1.0	63	0.2	273	0.7	833	2.0
Other*	718	1.8	4,423	10.8	288	0.7	5,003	12.3	10,432	25.6
No Information	9	0.0	88	0.2	9	0.0	2,653	6.5	2,758	6.8
<b>Total</b>	<b>3,149</b>	<b>7.7</b>	<b>21,471</b>	<b>52.7</b>	<b>1,675</b>	<b>4.1</b>	<b>14,483</b>	<b>35.5</b>	<b>40,777</b>	<b>100.0</b>

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

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

# IVF and ICSI 2016

## Prospective Data

### IVF 2016

	<b>n</b>	<b>%</b>	<b>Fertilisation %</b>	<b>Embryo %</b>	<b>Transfer %</b>	<b>Clin. Preg. %</b>
Performed IVF Treatm.	14,176	100.0				
Successful Fertilis.*	13,078	92.3	100.0			
Minimum 1 Embryo	12,476	88.0	95.4	100.0		
ET Performed	12,027	84.8	92.0	96.4	100.0	
Clin. Pregnancy	4,181	<b>29.5</b>	32.0	33.5	<b>34.8</b>	100.0
Birth	2,877	<b>20.3</b>	<b>22.0</b>	<b>23.1</b>	<b>23.9</b>	<b>68.8</b>
Miscarriage	846					20.2
Ectopic Pregnancy	76					1.8
Not Yet Recorded	382					9.2

### ICSI 2016

	<b>n</b>	<b>%</b>	<b>Fertilisation %</b>	<b>Embryo %</b>	<b>Transfer %</b>	<b>Clin. Preg. %</b>
Performed ICSI Treatm.	44,603	100.0				
Successful Fertilis.*	42,339	94.9	100.0			
Minimum 1 Embryo	39,452	88.5	93.2	100.0		
ET Performed	38,366	86.0	90.6	97.2	100.0	
Clin. Pregnancy	12,654	<b>28.4</b>	29.9	32.1	<b>33.0</b>	100.0
Birth	8,702	<b>19.5</b>	<b>20.6</b>	<b>22.1</b>	<b>22.7</b>	<b>68.8</b>
Miscarriage	2,639					20.8
Ectopic Pregnancy	140					1.1
Not Yet Recorded	1,173					9.3

\*) Successful fertilisation of at least one oocyte per cycle

# Testicular Sperm Extraction (TESE) and Cryo Transfer 2016

Prospective Data

## ICSI/TESE 2016

	<b>n</b>	<b>%</b>	<b>Fertilisation %</b>	<b>Embryo %</b>	<b>Transfer %</b>	<b>Clin. Preg. %</b>
ICSI	2,326	100.0				
Successful Fertilis.*	2,196	94.4	100.0			
Minimum 1 Embryo	2,098	90.2	95.5	100.0		
ET Performed	1,997	85.9	90.9	95.2	100.0	
Clin. Pregnancy	618	26.2	27.7	29.5	<b>30.5</b>	100.0
Birth	443	<b>19.0</b>	<b>20.2</b>	<b>21.1</b>	<b>22.1</b>	<b>71.6</b>
Miscarriage	126					20.4
Ectopic Pregnancy	15					2.5
Not Yet Recorded	34					5.5

## Cryo Transfer 2016

	<b>n</b>	<b>%</b>	<b>PN %</b>	<b>Transfer %</b>	<b>Clin. Preg. %</b>
Cryo Transfer Cycles	23,757	100.0			
Thawed PN	23,391	98.5	100.0		
ET Performed	23,286	98.0	99.6	100.0	
Clin. Pregnancy	6,494	27.3	27.8	<b>27.9</b>	100.0
Birth	4,111	<b>17.3</b>	<b>17.6</b>	<b>17.7</b>	<b>63.3</b>
Miscarriage	1,629				25.1
Ectopic Pregnancy	88				1.3
Not Yet Recorded	666				10.3

\*) Successful fertilisation of at least one oocyte per cycle

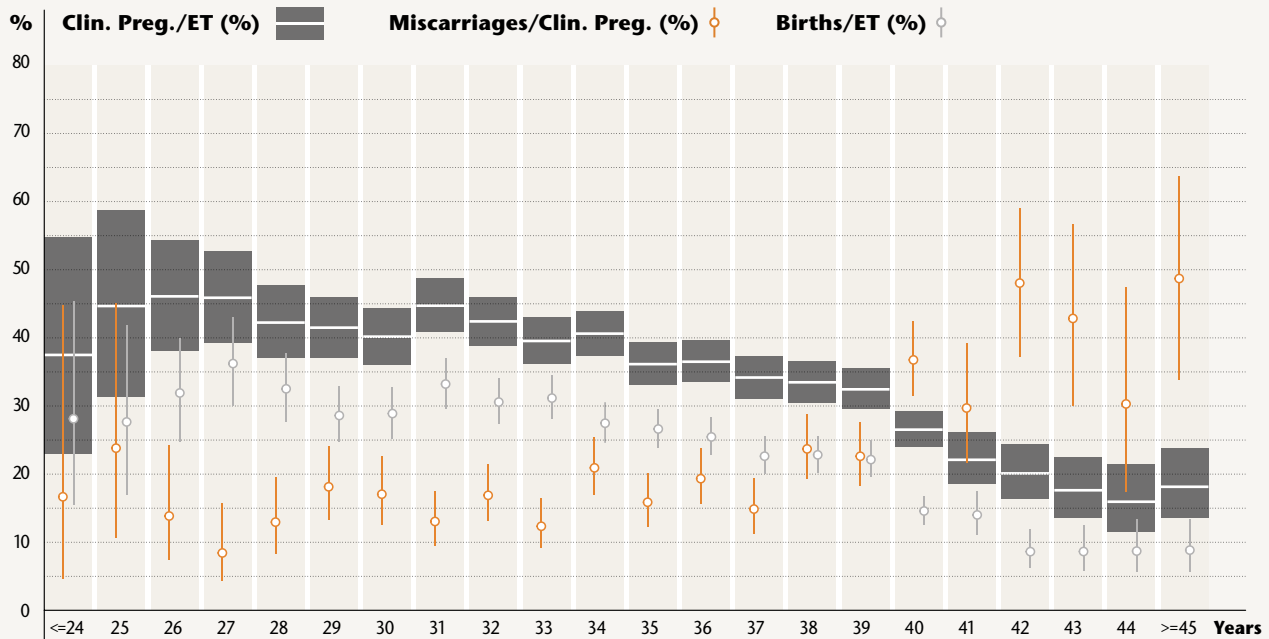




# Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2016

Prospective Data

## IVF 2016



<b>n</b>	32	47	141	207	329	465	540	617	726	799	859	924	978	866	920	940	1,097	457	383	278	207	215	<b>ET</b>
<b>%</b>	37.5	44.7	46.1	45.9	42.2	41.5	40.2	44.7	42.4	39.5	40.6	36.1	36.5	34.2	33.5	32.4	26.5	22.1	20.1	17.6	15.9	18.1	<b>CP/ET</b>
<b>n</b>	9	13	45	75	107	133	156	205	222	249	236	246	249	196	210	208	160	64	33	24	18	19	<b>Birth</b>

Age in Years	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Total
OPU	1,553	4,362	5,655	1,340	566	484	361	271	281	<b>14,873</b>
Oocytes <sup>1</sup>	11.4	10.6	8.7	7.2	7.4	6.7	5.8	4.7	3.8	<b>8.9</b>
Insemination <sup>1</sup>	11.4	10.7	9.7	8.1	8.1	8.0	6.7	6.4	6.9	<b>8.7</b>
ET	1,221	3,541	4,628	1,097	457	383	278	207	215	<b>12,027</b>
ET/OPU %	78.8	81.2	81.9	81.6	80.7	79.1	77.0	76.4	76.5	<b>80.9</b>
Trans. Embr. <sup>1</sup>	1.7	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.9	<b>1.8</b>
CP	525	1,466	1,600	291	101	77	49	33	39	<b>4,181</b>
CP/OPU %	33.8	33.6	28.3	21.7	17.8	15.9	13.6	12.2	13.9	<b>28.1</b>
CP/ET upper Conf. Limit*%	45.8	43.0	36.0	29.2	26.1	24.4	22.5	21.5	23.8	<b>35.6</b>
CP/ET %	<b>43.0</b>	<b>41.4</b>	<b>34.6</b>	<b>26.5</b>	<b>22.1</b>	<b>20.1</b>	<b>17.6</b>	<b>15.9</b>	<b>18.1</b>	<b>34.8</b>
CP/ET lower Conf. Limit*%	40.2	39.8	33.2	24.0	18.5	16.4	13.6	11.6	13.6	<b>33.9</b>
CP/ET %: 2 Embr. transf. + min. 2 2-PN surplus	45.4	45.0	37.6	29.0	25.0	21.8	21.6	16.8	22.8	<b>38.1</b>
Misc./CP upper Conf. Limit*%	17.9	18.1	21.3	42.4	39.2	59.0	56.7	47.3	63.8	<b>21.5</b>
Misc./CP %	<b>14.7</b>	<b>16.2</b>	<b>19.3</b>	<b>36.8</b>	<b>29.7</b>	<b>48.1</b>	<b>42.9</b>	<b>30.3</b>	<b>48.7</b>	<b>20.2</b>
Misc./CP lower Conf. Limit*%	11.9	14.4	17.4	31.4	21.7	37.3	30.0	17.4	33.9	<b>19.0</b>
Births/ET upper Conf. Limit*%	33.9	31.7	25.2	16.8	17.5	11.9	12.5	13.3	13.4	<b>24.7</b>
Births/ET %	<b>31.3</b>	<b>30.2</b>	<b>24.0</b>	<b>14.6</b>	<b>14.0</b>	<b>8.6</b>	<b>8.6</b>	<b>8.7</b>	<b>8.8</b>	<b>23.9</b>
Births/ET lower Conf. Limit*%	28.7	28.7	22.8	12.6	11.1	6.2	5.9	5.6	5.7	<b>23.2</b>

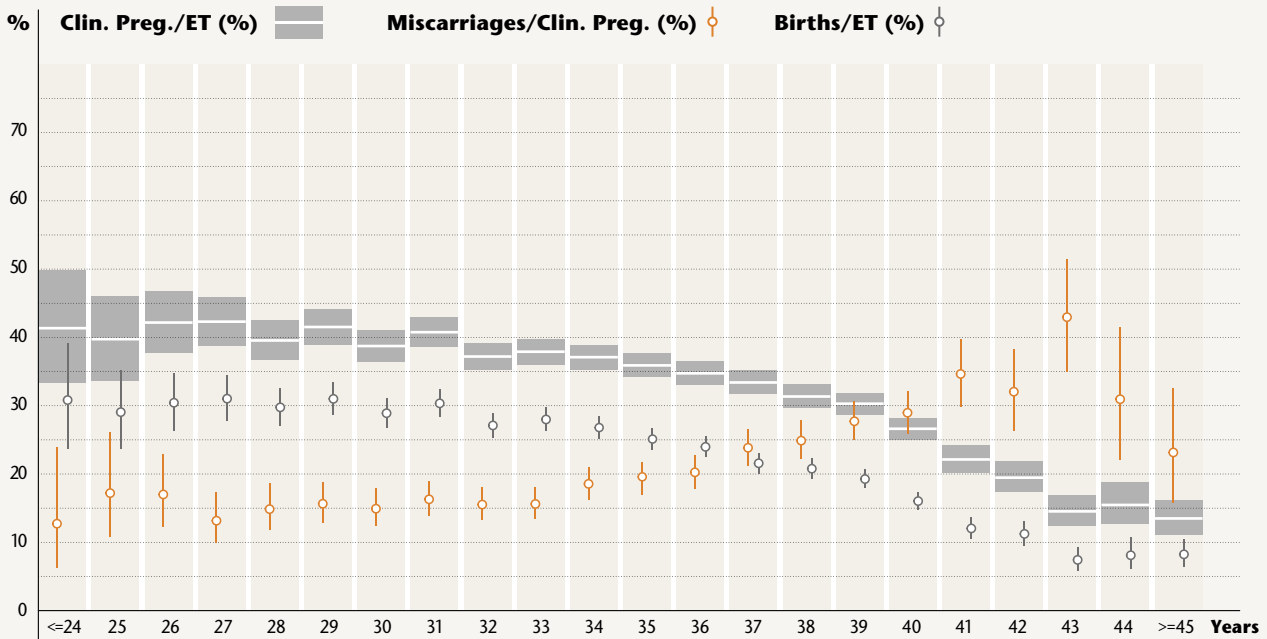
1) Mean

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

# Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2016

Prospective Data

## ICSI 2016



n	133	234	460	754	1,072	1,416	1,678	1,987	2,320	2,551	2,730	2,944	3,028	2,976	2,820	3,156	3,125	1,604	1,202	929	543	704	ET
%	41.4	39.7	42.2	42.3	39.6	41.5	38.7	40.8	37.2	37.9	37.1	35.9	34.7	33.4	31.3	30.3	26.6	22.1	19.5	14.5	15.5	13.5	CP/ET
n	41	68	140	234	319	439	485	603	629	714	731	737	726	642	586	608	501	193	135	69	44	58	Birth

Age in Years	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Total
OPU	4,861	13,334	17,800	3,787	1,968	1,535	1,232	732	941	46,190
Oocytes <sup>1</sup>	11.8	10.9	9.0	7.8	7.0	7.1	6.4	6.5	6.1	9.4
Insemination <sup>1</sup>	10.5	9.8	8.1	7.0	6.6	6.6	6.2	6.5	5.8	8.5
ET	4,069	11,266	14,924	3,125	1,604	1,202	929	543	704	38,366
ET/OPU %	83.7	84.5	83.8	82.5	81.5	78.3	75.4	74.2	74.8	83.1
Trans. Embr. <sup>1</sup>	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.8	1.8
CP	1,673	4,303	4,943	832	355	234	135	84	95	12,654
CP/OPU %	34.4	32.3	27.8	22.0	18.0	15.2	11.0	11.5	10.1	27.4
CP/ET upper Conf. Limit* %	42.6	39.1	33.9	28.2	24.2	21.8	16.9	18.8	16.2	33.5
CP/ET %	41.1	38.2	33.1	26.6	22.1	19.5	14.5	15.5	13.5	33.0
CP/ET lower Conf. Limit* %	39.6	37.3	32.4	25.1	20.2	17.3	12.4	12.7	11.2	32.5
CP/ET %: 2 Embr. transf. + min. 2-2-PN surplus	43.6	39.8	36.1	29.8	25.9	21.1	18.4	16.1	17.1	35.9
Misc./CP upper Conf. Limit* %	16.9	17.4	24.2	32.2	39.8	38.4	51.4	41.9	32.6	21.6
Misc./CP %	15.1	16.3	23.0	29.0	34.7	32.2	43.0	31.3	23.2	20.9
Misc./CP lower Conf. Limit* %	13.5	15.2	21.9	26.0	30.0	26.5	34.9	22.4	15.8	20.2
Births/ET upper Conf. Limit* %	31.9	28.9	22.8	17.4	13.7	13.1	9.3	10.7	10.5	23.1
Births/ET %	30.5	28.1	22.1	16.0	12.0	11.2	7.4	8.1	8.2	22.7
Births/ET lower Conf. Limit* %	29.1	27.2	21.4	14.8	10.5	9.6	5.9	6.1	6.4	22.3

1) Mean

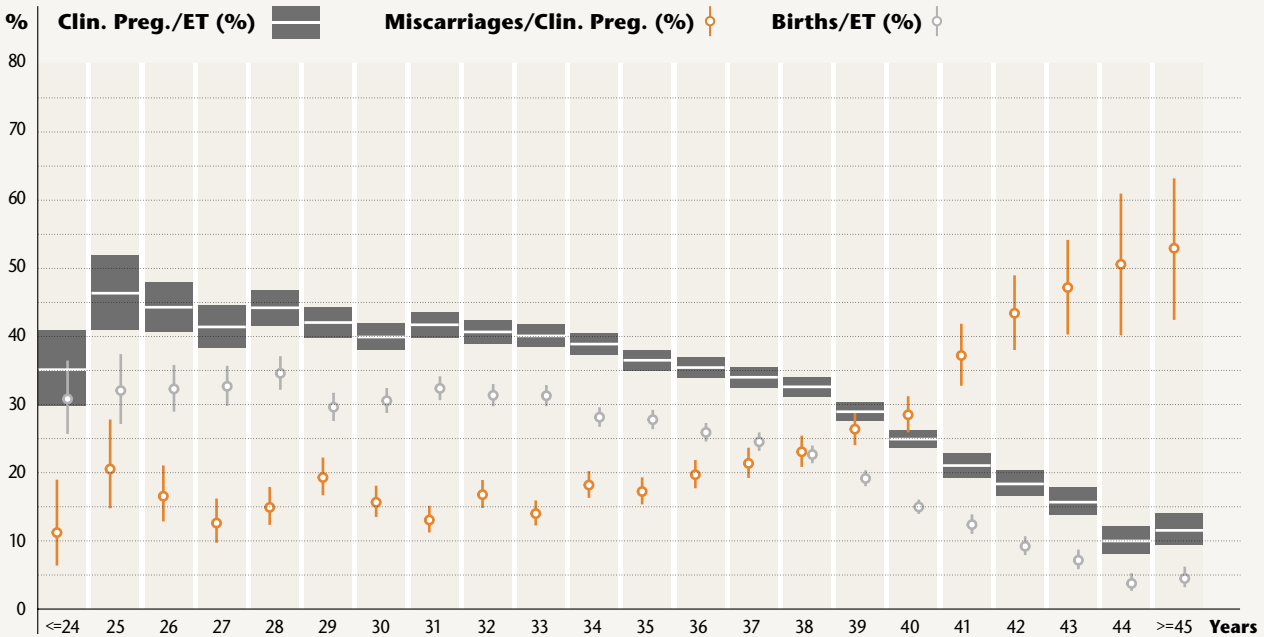
\* With a 95%-probability, the true mean lies within the defined confidence interval.



# Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2012 – 2016

Prospektive Daten

## IVF 2012 – 2016



n	279	315	709	976	1,425	1,860	2,430	2,752	3,121	3,438	3,801	3,843	3,993	3,851	3,987	4,382	4,459	2,042	1,694	1,243	851	736	ET
%	35.1	46.3	44.3	41.4	44.2	42.0	39.9	41.7	40.7	40.1	38.9	36.5	35.4	34.0	32.6	29.0	24.9	21.1	18.4	15.7	10.0	11.5	CP/ET
n	86	101	229	319	493	551	743	891	979	1,076	1,070	1,068	1,035	945	904	840	668	253	156	89	32	33	Birth

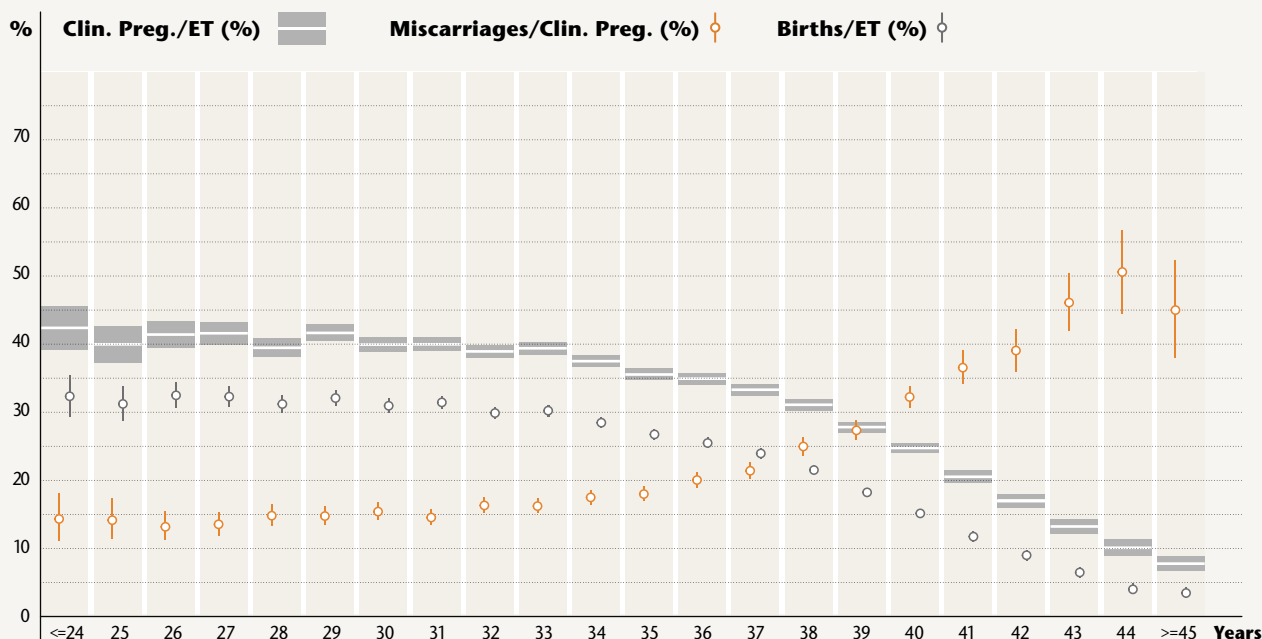
Age in Years	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Total
OPU	6,709	18,192	23,308	5,189	2,405	2,028	1,549	1,057	919	<b>61,356</b>
Oocytes <sup>1</sup>	11.6	10.4	8.4	7.1	6.4	6.1	5.6	5.0	4.6	<b>8.9</b>
ET/OPU %	82.9	85.4	86.1	85.9	84.9	83.5	80.2	80.5	80.1	<b>85.1</b>
Trans. Embr. <sup>1</sup>	1.8	1.9	1.8	2.0	1.9	1.7	1.9	1.8	1.9	<b>1.8</b>
CP	2,374	6,243	6,697	1,112	430	311	195	85	85	<b>17,532</b>
CP/OPU %	35.4	34.3	28.7	21.4	17.9	15.3	12.6	8.0	9.2	<b>28.6</b>
CP/ET upper Confidence Limit* %	44.0	40.9	34.0	26.2	22.9	20.3	17.8	12.2	14.1	<b>34.0</b>
CP/ET %	<b>42.7</b>	<b>40.2</b>	<b>33.4</b>	<b>24.9</b>	<b>21.1</b>	<b>18.4</b>	<b>15.7</b>	<b>10.0</b>	<b>11.5</b>	<b>33.6</b>
CP/ET lower Confidence Limit* %	41.4	39.4	32.7	23.7	19.3	16.6	13.8	8.2	9.4	<b>33.2</b>
CP/ET %: 2 Embr. transf. + min. 2 2-PN surplus	44.2	43.0	36.5	28.1	24.3	21.3	19.5	11.4	12.3	<b>36.0</b>
Misc./CP upper Confidence Limit* %	17.9	16.6	22.4	31.2	41.9	49.0	54.2	61.0	63.2	<b>21.1</b>
Misc./CP %	<b>16.4</b>	<b>15.6</b>	<b>21.4</b>	<b>28.5</b>	<b>37.2</b>	<b>43.4</b>	<b>47.2</b>	<b>50.6</b>	<b>52.9</b>	<b>20.5</b>
Misc./CP lower Confidence Limit* %	15.0	14.8	20.5	25.9	32.8	38.0	40.3	40.2	42.4	<b>19.9</b>
Births/ET upper Confidence Limit* %	33.2	31.3	24.5	16.1	13.9	10.7	8.7	5.3	6.2	<b>24.4</b>
Births/ET %	<b>32.0</b>	<b>30.6</b>	<b>23.9</b>	<b>15.0</b>	<b>12.4</b>	<b>9.2</b>	<b>7.2</b>	<b>3.8</b>	<b>4.5</b>	<b>24.1</b>
Births/ET lower Confidence Limit* %	30.8	29.9	23.3	14.0	11.0	7.9	5.9	2.7	3.2	<b>23.7</b>

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 2012 – 2016

Prospektive Daten

## ICSI 2012 – 2016



n	906	1,291	2,420	3,568	4,843	6,284	7,720	9,379	10,740	11,759	12,561	13,222	13,298	12,740	12,391	13,730	13,388	7,136	5,625	3,971	2,506	2,318	ET
%	42.4	40.0	41.4	41.6	39.5	41.6	39.9	40.0	38.9	39.4	37.5	35.5	34.9	33.3	31.1	27.8	24.7	20.5	17.0	13.2	10.1	7.8	CP/ET
n	293	403	786	1,152	1,511	2,016	2,389	2,949	3,209	3,555	3,575	3,536	3,388	3,051	2,665	2,503	2,027	837	506	257	100	80	Birth

Age in Years	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Total
OPU	21,430	57,461	72,811	15,191	8,228	6,666	4,865	3,078	3,090	<b>192,820</b>
Oocytes <sup>1</sup>	12.4	11.3	9.3	7.8	7.0	6.6	6.0	5.6	5.0	<b>9.7</b>
ET/OPU %	89.3	90.0	89.0	87.4	86.0	83.6	80.9	80.7	74.4	<b>88.3</b>
Trans. Embr. <sup>1</sup>	1.9	1.8	1.9	2.0	1.9	1.8	1.9	1.9	1.7	<b>1.9</b>
CP	7,914	20,355	21,259	3,313	1,464	955	525	253	180	<b>56,218</b>
CP/OPU %	36.9	35.4	29.2	21.8	17.8	14.3	10.8	8.2	5.8	<b>29.2</b>
CP/ET upper Confidence Limit* %	41.7	39.4	32.9	25.5	21.5	18.0	14.3	11.3	8.9	<b>32.9</b>
CP/ET %	<b>41.0</b>	<b>39.0</b>	<b>32.5</b>	<b>24.7</b>	<b>20.5</b>	<b>17.0</b>	<b>13.2</b>	<b>10.1</b>	<b>7.8</b>	<b>32.7</b>
CP/ET lower Confidence Limit* %	40.3	38.6	32.2	24.0	19.6	16.0	12.2	9.0	6.7	<b>32.5</b>
CP/ET %: 2 Embr. transf. + min. 2 2-PN surplus	41.8	40.0	34.7	27.4	23.3	19.6	16.2	11.8	10.7	<b>35.0</b>
Misc./CP upper Confidence Limit* %	15.1	16.6	22.6	33.8	39.0	42.2	50.4	56.7	52.3	<b>20.8</b>
Misc./CP %	<b>14.3</b>	<b>16.1</b>	<b>22.1</b>	<b>32.2</b>	<b>36.5</b>	<b>39.1</b>	<b>46.1</b>	<b>50.6</b>	<b>45.0</b>	<b>20.5</b>
Misc./CP lower Confidence Limit* %	13.5	15.6	21.5	30.7	34.1	36.0	41.9	44.5	37.9	<b>20.2</b>
Births/ET upper Confidence Limit* %	32.6	30.5	23.5	15.8	12.5	9.8	7.3	4.8	4.3	<b>23.9</b>
Births/ET %	<b>31.9</b>	<b>30.1</b>	<b>23.2</b>	<b>15.1</b>	<b>11.7</b>	<b>9.0</b>	<b>6.5</b>	<b>4.0</b>	<b>3.5</b>	<b>23.7</b>
Births/ET lower Confidence Limit* %	31.2	29.7	22.8	14.5	11.0	8.3	5.7	3.3	2.8	<b>23.5</b>

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 2017



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	44	34.1	127	33.1	2	0.0	173	32.9
25 – 29	935	28.2	3,485	41.1	98	35.7	4,518	38.3
30 – 34	3,628	27.6	11,627	38.3	548	34.9	15,803	35.7
35 – 39	5,627	19.8	14,878	33.9	1,240	29.6	21,745	30.0
40	453	11.7	929	20.1	228	22.4	1,610	18.1
41	179	8.9	324	17.3	100	19.0	603	15.1
42	132	6.1	226	13.7	101	12.9	459	11.3
43	119	5.9	161	8.7	63	14.3	343	8.7
44	89	2.2	90	8.9	34	2.9	213	5.2
45	57	1.8	71	1.4	23	0.0	151	1.3
>= 46	144	5.6	95	3.2	72	8.3	311	5.5
<b>Total</b>	<b>11,407</b>	<b>21.8</b>	<b>32,013</b>	<b>35.2</b>	<b>2,509</b>	<b>27.6</b>	<b>45,929</b>	<b>31.5</b>

## 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	30	23.3	71	22.5	0	-	101	22.8
25 – 29	524	24.2	1,592	31.9	151	32.5	2,267	30.2
30 – 34	2,249	23.6	5,985	30.6	520	29.6	8,754	28.8
35 – 39	3,388	18.9	6,859	27.1	731	22.4	10,978	24.2
40	171	9.9	279	17.2	50	20.0	500	15.0
41	81	13.6	196	19.4	39	30.8	316	19.3
42	67	26.9	120	10.8	37	21.6	224	17.4
43	35	11.4	71	5.6	21	9.5	127	7.9
44	26	7.7	56	8.9	17	0.0	99	7.1
45	14	0.0	25	8.0	2	100.0	41	9.8
>= 46	26	15.4	39	12.8	14	28.6	79	16.5
<b>Total</b>	<b>6,611</b>	<b>20.6</b>	<b>15,293</b>	<b>28.3</b>	<b>1,582</b>	<b>25.6</b>	<b>23,486</b>	<b>26.0</b>

## Clinical Pregnancies (CP)/Fresh Transfer as a Function of Embryo Quality 2017

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	104	11.5	513	12.3	852	8.9	178	5.6	1,647	9.8
0	2	213	24.4	786	21.9	1,187	19.2	191	13.6	2,377	22.3
0	3	17	5.9	27	18.5	57	19.3	23	8.7	124	17.3
1	0	856	30.4	3,044	29.9	4,546	19.6	927	12.9	9,373	23.9
1	1	404	35.9	1,311	33.6	1,768	27.7	277	17.7	3,760	29.1
1	2	16	25.0	56	26.8	93	26.9	33	12.1	198	22.7
2	0	3,006	42.4	9,662	40.1	12,239	36.4	1,735	25.5	26,642	37.3
2	1	8	37.5	75	33.3	153	22.9	49	22.4	285	25.1
3	0	67	31.3	329	40.4	850	28.2	277	23.5	1,523	29.6
<b>Total</b>		<b>4,691</b>	<b>37.8</b>	<b>15,803</b>	<b>35.7</b>	<b>21,745</b>	<b>30.0</b>	<b>3,690</b>	<b>19.8</b>	<b>45,929</b>	<b>31.5</b>

## Clinical Pregnancies (CP)/Frozen Transfer as a Function of Embryo Quality 2017

Cryo Transfer – Prospective Data

Quality		IVF		ICSI	
ideal	Not Ideal	ET	CP/ET %	ET	CP/ET %
0	1	230	17.8	849	10.0
0	2	349	12.9	1,305	15.7
0	3	24	12.5	144	13.2
1	0	1,141	21.8	3,317	23.6
1	1	638	15.7	2,087	20.8
1	2	54	16.7	147	20.4
2	0	2,808	29.4	7,909	29.4
2	1	69	20.3	216	24.5
3	0	245	25.7	683	27.7
<b>Total*</b>		<b>5,579</b>	<b>24.3</b>	<b>16,657</b>	<b>24.8</b>

\*) In 1,250 cases, resulting in an additional 476 pregnancies, no information is available on the preceding treatment.

# Miscarriage (MISC) Rates as a Function of Female Age and Number of Embryos Transferred 2016

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	11	9.0	55	12.5	1	0.0	67	13.3
25 – 29	269	17.0	1,818	14.2	58	22.9	2,145	14.8
30 – 34	866	16.5	4,736	16.2	227	20.8	5,829	16.3
35 – 39	997	24.6	5,128	21.5	474	24.1	6,599	22.3
40 – 44	371	38.3	1,475	32.4	308	39.5	2,154	33.7
>= 45	10	90.0	17	70.6	14	53.8	41	73.2
<b>Total</b>	<b>2,524</b>	<b>23.2</b>	<b>13,229</b>	<b>27.0</b>	<b>1,082</b>	<b>28.0</b>	<b>16,835</b>	<b>20.7</b>

## Cryo

Age in Years	1 Embryo		2 Embryos		3 Embryos		Total	
	CP	MISC/CP %	CP	MISC/CP %	CP	MISC/CP %	CP	MISC/CP %
<= 24	9	0.0	22	41.0	0	-	31	29.0
25 – 29	132	25.0	615	21.3	54	44.7	801	22.3
30 – 34	464	21.3	1,751	15.6	184	23.8	2,399	21.5
35 – 39	550	27.5	1,696	26.2	197	20.0	2,443	25.0
40 – 44	161	32.9	508	33.1	134	39.3	803	38.5
>= 45	4	62.5	8	20.0	5	40.0	17	30.8
<b>Total</b>	<b>1,320</b>	<b>26.3</b>	<b>4,600</b>	<b>26.3</b>	<b>574</b>	<b>28.8</b>	<b>6,494</b>	<b>25.1</b>

# Clinical Pregnancy Rate (CPR) as a Function of the Stimulation Protocol 2017

Prospective Data

## IVF and ICSI

	u-FSH	rec-FSH	hMG	recLH and recFSH	recFSH and hMG	long-acting recFSH**	hrFSH**	Other*	No Information	Total	Perc. %
<b>Short GnRHα</b>											
Transfer Rate (%)											
CP/ET (%)											
<b>Long GnRHα</b>											
Transfer Rate (%)											
CP/ET (%)											
<b>No GnRHα-Ana.</b>											
Transfer Rate (%)											
CP/ET (%)											
<b>GnRHα-Antag.</b>											
Transfer Rate (%)											
CP/ET (%)											
<b>Total</b>											

**Erratum.**  
After passing for press, this report has to be rectified and to be updated.

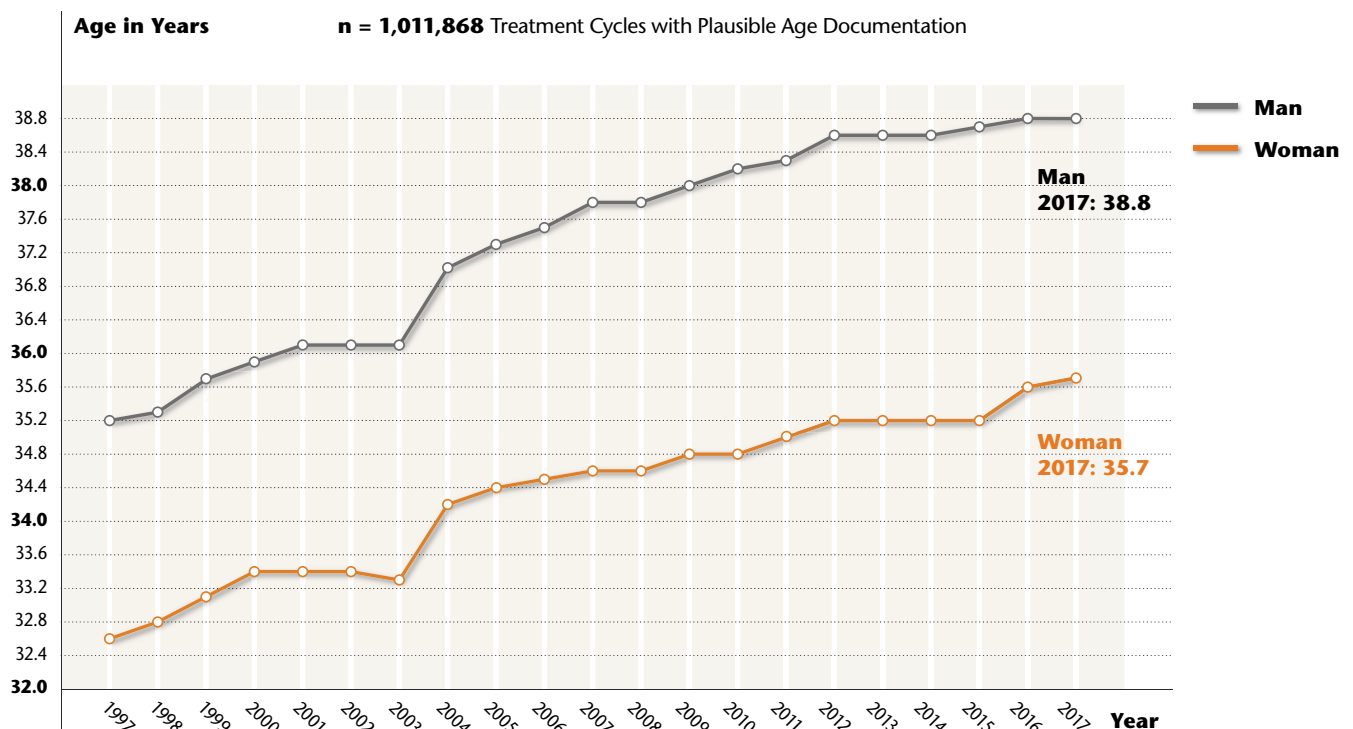
The transfer rate in relation to stimulated cycles started.

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

\*\*) These new groups could only be documented by the new D-I-R data set. For that reason, these figures do not represent the entire year 2017.

## Mean Age for Women and Men 1997 – 2017

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





# Children as a Function of Week of Gestation (WoG) and Birth Weight (BW) 2016\*

## Singletons 2016

WoG	<25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	>41	Total
n	38	21	24	42	36	49	55	64	78	140	197	387	549	1,249	2,223	3,245	2,901	1,727	600	13,625
BW p25	413	696	682	808	830	766	1,270	1,349	1,630	1,750	2,020	2,293	2,608	2,950	2,985	3,120	3,189	3,270	3,300	2,980
BW Median	520	770	835	920	1,020	1,265	1,400	1,710	1,900	2,109	2,390	2,550	2,870	2,950	3,270	3,410	3,470	3,550	3,570	3,330
BW p75	633	890	990	1,145	1,279	1,415	1,788	1,911	2,300	2,428	2,650	2,890	3,186	2,950	3,600	3,730	3,750	3,860	3,874	3,660

**Percentiles 2016: p25 = 38th WoG, p50 = 39th WoG, p75 = 40th WoG;**

Percentiles 1997–2016: p25 = 38th WoG, p50 = 39th WoG, p75 = 40th WoG

Proportion of children born before the completion of the 37th WoG: 21.5%

## Twins 2016

WoG	<25	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Total**
n	78	24	42	80	92	118	142	170	248	402	494	806	1,142	1,354	946	388	134	6,660
BW p25	380	680	705	935	955	1,110	1,208	1,480	1,498	1,792	1,990	2,132	2,280	2,430	2,490	2,550	2,760	2,140
BW Median	558	798	890	1,045	1,108	1,248	1,450	1,620	1,760	2,000	2,210	2,350	2,520	2,670	2,720	2,780	2,950	2,530
BW p75	641	863	1,135	1,185	1,285	1,440	1,659	1,818	2,065	2,200	2,443	2,600	2,790	2,900	2,970	3,040	3,290	2,840

**Percentiles 2016: p25 = 34th WoG, p50 = 36th WoG, p75 = 37th WoG;**

Percentiles 1997–2016: p25 = 34th WoG, p50 = 36th WoG, p75 = 37th WoG

Proportion of children born before the completion of the 37th WoG: 78.0%

\*\*\*) The total contains 13 cases with a WoG > 40

## Triplets 2016

WoG	24	25	26	27	28	29	30	31	32	33	34	35	Total***
n	12	3	9	15	18	39	18	48	30	27	18	21	258
BW p25	360	535	800	858	927	989	1,354	1,330	1,400	1,468	1,870	1,553	1,100
BW Median	500	570	850	1,070	1,026	1,175	1,465	1,470	1,590	1,845	1,945	1,855	1,380
BW p75	500	755	1,050	1,230	1,140	1,245	1,660	1,770	1,619	1,993	2,140	2,013	1,705

**Percentiles 2016: p25 = 30th WoG, p50 = 32nd WoG, p75 = 33rd WoG;**

Percentiles 1997–2016: p25 = 30th WoG, p50 = 32nd WoG, p75 = 33rd WoG

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

\*\*\*) The total contains 3 cases with a WoG > 35

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

# Children Born 1997–2016

Prospective and Retrospective Data

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

	Singletons		Twins		Triplets		Quadruplets		Total
	n	%	n	%	n	%	n	%	n
<b>1997</b>	4,175	58.7	1,902	32.8	492	8.4	8	0.1	6,577
<b>1998</b>	5,357	58.2	3,152	34.2	702	7.6	0	-	9,211
<b>1999</b>	6,116	60.5	3,396	33.6	600	5.9	4	0.0	10,116
<b>2000</b>	6,143	60.5	3,504	34.5	507	5.0	4	0.0	10,158
<b>2001</b>	7,726	62.2	4,252	34.3	435	3.5	0	-	12,413
<b>2002</b>	8,930	63.8	4,662	33.3	387	2.8	8	0.1	13,987
<b>2003</b>	11,922	63.1	6,334	33.6	597	3.2	24	0.1	18,877
<b>2004</b>	6,891	65.6	3,336	31.8	273	2.6	0	-	10,500
<b>2005</b>	7,038	65.8	3,440	32.1	213	2.0	12	0.1	10,703
<b>2006</b>	7,419	66.9	3,450	31.1	222	2.0	4	0.0	11,095
<b>2007</b>	8,407	66.4	4,076	32.2	183	1.4	4	0.0	12,670
<b>2008</b>	8,444	65.7	4,142	32.3	240	1.9	8	0.1	12,834
<b>2009</b>	9,016	67.3	4,152	31.0	216	1.6	8	0.1	13,392
<b>2010</b>	8,619	66.2	4,156	31.9	249	1.9	0	-	13,024
<b>2011</b>	9,388	63.3	5,131	34.7	300	2.0	0	-	14,819
<b>2012</b>	10,188	66.4	4,906	32.0	249	1.6	0	-	15,343
<b>2013</b>	11,713	64.9	6,003	33.3	327	1.8	8	0.0	18,051
<b>2014</b>	13,092	65.5	6,566	32.9	309	1.5	12	0.1	19,979
<b>2015</b>	13,699	65.4	6,942	33.2	300	1.4	8	0.0	20,949
<b>2016</b>	13,692	66.0	6,800	32.8	258	1.2	4	0.0	20,754
<b>Total</b>	<b>177,975</b>	<b>64.6</b>	<b>90,302</b>	<b>32.8</b>	<b>7,059</b>	<b>2.6</b>	<b>116</b>	<b>0.0</b>	<b>275,452</b>

**GELSENKIRCHEN**  
Population of 262,528

**WIESBADEN**  
Population of 277,619

**275,452**  
Children born 1997 – 2016

# Ovarian Hyperstimulation Syndrome (OHSS) as a Function of the Stimulation Protocol 2017

IVF, ICSI, IVF/ICSI – Prospective Data

	Stimulation	%	Oocytes Retrieved	OHSS III	OHSS III/Stim %
<b>Short GnRH</b>	2,927	4.6	7.8	4	0.1
FSH only	1,186		8.5	1	0.1
hMG only	1,034		6.9	1	0.1
FSH + hMG	592		7.1	2	0.3
long-acting recFSH	77		6.8	0	-
hrFSH	2		7.0	0	-
Other	16		18.2	0	-
No Information	20		3.0	0	-
<b>Long GnRH</b>	11,847	18.5	8.5	22	0.2
FSH only	5,605		8.7	10	0.2
hMG only	2,867		8.4	3	0.1
FSH + hMG	2,778		8.8	8	0.3
long-acting recFSH	332		7.5	1	0.3
hrFSH	26		8.0	0	-
Other	16		5.2	0	-
No Information	223		5.3	0	-
<b>No Analoga</b>	8,124	12.7	9.6	17	0.2
FSH only	2,242		9.5	6	0.3
hMG only	1,574		9.7	5	0.3
FSH + hMG	765		10.2	1	0.1
long-acting recFSH	124		10.5	0	-
hrFSH	7		9.9	0	-
Other	5		9.7	0	-
No Information	3,407		9.6	5	0.1
<b>GnRH-Antagonists</b>	41,029	64.2	8.7	88	0.2
FSH only	24,838		9.2	65	0.3
hMG only	7,680		6.5	8	0.1
FSH + hMG	6,062		8.2	13	0.2
long-acting recFSH	1,304		8.1	0	-
hrFSH	101		8.4	0	-
Other	57		9.4	0	-
No Information	987		7.3	2	0.2
<b>Total</b>	<b>63,927</b>	<b>100.0</b>	<b>8.6</b>	<b>131</b>	<b>0.2</b>

# Complications as a Function of Ovum Pick-up (OPU) 2017

Prospective Data

Total OPU's	55,521	100.0%
No Information	0	-
No Complications	54,886	98.9%
<b>Complications</b>	<b>635</b>	<b>1.1%</b>

Complications	n	%
Vaginal Bleeding	452	71.2
Intraabdom. Bleeding	62	9.8
Intestinal Tract Injury	3	0.5
Peritonitis	12	1.9
Hospitalisation	4	0.6
Surgery	20	3.1
Other	82	12.9
<b>Total</b>	<b>635</b>	<b>100.0</b>

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