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– Journal of Reproductive Medicine and Endocrinology –

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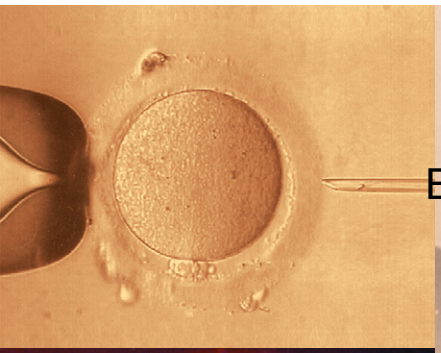

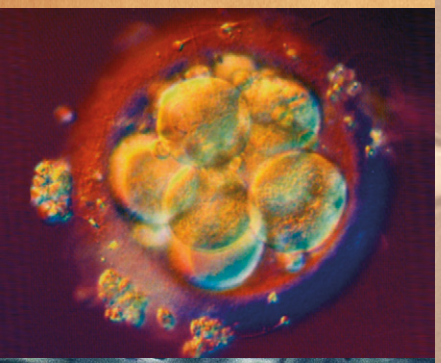

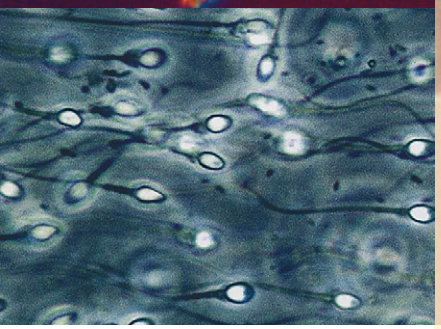

D.I.R-Annual 2020

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Contents

205 Preface

205 D·I·R Annual 2020 – The German IVF-Registry
S. Bartnitzky, V. Blumenauer, U. Czeromin, D. Fehr, C. Gnoth, C. Grewe, J.-S. Krüssel, M.S. Kupka, A. Tandler-Schneider, S.Tauchert

206 Responsible for this Edition

207 Tables

207 Number of Treatments in 2020

207 Type of plausible treatment 2016 – 2020

208 Number of Oocyte Retrievals (Freshcycles) 1982 – 2020

208 Summary of Statistics in Brief 2019

209 Quality of Documentation 2019/2020

210 Birth Rate per Treatment Level in Fresh and Cryo Treatment Cycles 2018 and 2019

211 D·I·R Statistics in Brief – Fresh Cycles 2020

212 D·I·R Statistics in Brief – Fresh Cycles 2019

213 D·I·R Statistics in Brief – Cryo Cycles 2020

214 D·I·R Statistics in Brief – Cryo Cycles 2019

215 Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2019

216 Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2019

217 Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2015 – 2019

218 Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2015 – 2019

219 Results IVF, ICSI (COHS) and IVF and ICSI in Natural Cycles 2019

220 Results of Thawing-Cycles, TESE, IVF and ICSI with Donor Semen 2019

221 Culture According to the "German Middle Way" and Impact on Therapy Outcome – Fresh Cycles 2020

221 Comparison SET and DET "German Middle Way" Fresh Cycles 2019

222 Culture According to the "German Middle Way" and Impact on Therapy Outcome – Thawing Cycles Embryos 2019

222 Comparison SET and DET "German Middle Way" Thawing Cycles Embryos 2019

223 Pregnancies Cumulative 2017 - 2019 Based on First OPU

224 Pregnancies Cumulative 2016 – 2019 as a Function of Female Age

225 Positive Pregnancy Outcomes 2019

225 Loss of Pregnancy 2019

225 Embryos per Transfer and Children per Birth 1997 – 2019

226 Oocyte Maturity Depending on Stimulation Protocol 2020

226 Cycles and Implantation-Rates with Transfer of Day 5/6 Embryos after Cryopreservation either on Culture Day 1 or Day 5/6

227 Implantation Rates of D3- and D5-Embryos and Number of Embryos per Transfer 2020

227 Evolution of Retrieved Oocytes (IVF or ICSI) 2020

228 Clinical Pregnancies (CP)/Fresh Transfer as a Function of Embryo Quality 2020

228 Clinical Pregnancies (CP)/Frozen Transfer as a Function of Embryo Quality 2020

229 Children as a Function of Week of Gestation (WoG) and Birth Weight (BW) 2019

230 Children Born 1997 – 2019

231 Distribution of Indications 2020

232 Mean Age for Women and Men 1997 – 2020

232 Social Freezing 2017 – 2020 Indication Social Freezing (Therapy or Patient)

233 Clinical Pregnancy Rate as a Function of Stimulation 2020

234 Ovarian Hyperstimulation Syndrome (OHSS) as a Function of Stimulation Protocol and Age Cohort 2020

234 Complications as a Function of Ovum Pick-up (OPU) 2020

235 *Ferti*PROTEKT Netzwerk e. V.

239 List of D·I·R Members

247 Sponsors

Preface
D·I·R Annual 2020 – The German IVF-Registry

S. Bartnitzky, V. Blumenauer, U. Czeromin, D. Fehr, C. Gnoth, C. Grewe, J.-S. Krüssel, M.S. Kupka, A. Tandler-Schneider, S.Tauchert

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 2020 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 more than 340,000 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 2020 is like the Yearbook 2019 a yearbook of change and of organizational efforts undertaken by all authors and contributors. After years of data control and reconciliation, administrational 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 2020 yearbook is based on exploitable exports from 134 centers, for which a number of 111,752 plausible cycles was documented. A total of 62,431 women were treated in 2020, resulting in an average of 1.9 cycles per woman. We are happy to note that the pregnancy rate per transfer in fresh cycles was 31.9%, whereas the pregnancy rate per transfer in cryo cycles was 29.4%. In the previous year, 2019, the documented birth rate per embryo transfer was 23.3% in fresh cycles and 20.4% in cryo cycles, with an acceptable general pregnancy outcome documentation of 93.0%.

Remarkably, 70.1% of the pregnancies led to a birth. A birth rate of 22.2% 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 [BGBl 2013; 56: 1633–41].

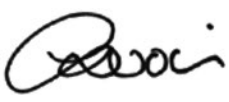
In the last years particular attention was placed on the known problems of multiple pregnancies within ART cycles. In 2019, the rate of twin births was 17.8% in fresh cycles and 13.0% in cryo cycles. This rate is still too high, but we have been able to see a small decrease in multiple birth since two years!

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, 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 1.7 embryos after IVF and ICSI were transfered.

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!



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Number of Treatments in 2020

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

Members of the German IVF-Registry 2020	n=139
Registry Participants 2020*	n=134
Data Received by Deadline May 6th 2021*	n=134
Documented Treatment Cycles	n=116,306
Number of Women Treated**	n=62,431
Mean Number of Treatment Cycles per Woman	**1.9**

Type of plausible treatment 2016 – 2020

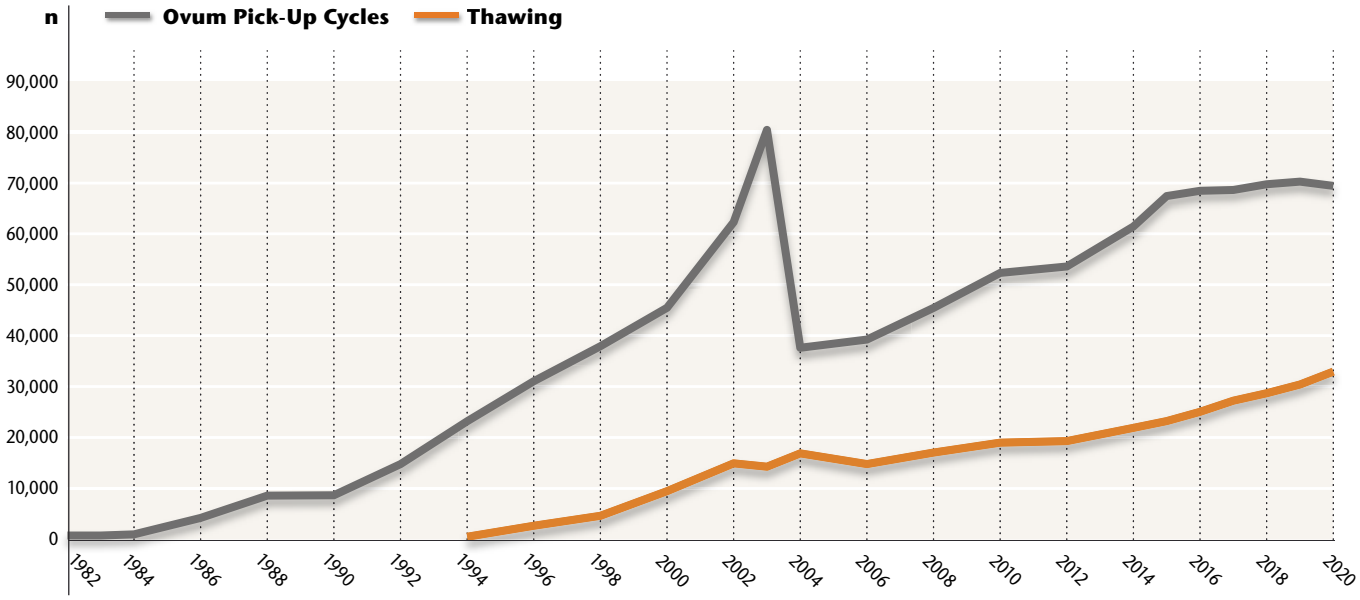
IVF, ICSI, IVF/ICSI, Cryo Transfer – Prospective and Retrospective Data

	2016		2017		2018		2019		2020	
	n	%	n	%	n	%	n	%	n	%
IVF	15,586	15.5	15,586	15.2	17,254	16.7	18,159	16.9	18,724	16.8
ICSI	47,554	47.2	45,548	44.4	46,027	44.5	45,984	42.7	44,336	39.7
IVF/ICSI	1,201	1.2	1,135	1.1	1,424	1.4	1,338	1.2	1,471	1.3
Freeze all - MII			1,200	1.2	1,630	1.6	1,824	1.7	1,879	1.7
Freeze All - PNs and Embryos	3,319	3.3	4,089	4.0	4,750	4.6	5,100	4.7	5,476	4.9
Cryo	25,181	25.0	26,084	25.5	27,878	26.9	30,411	28.2	32,945	29.5
Mixed Fresh and Cryo Cycles	891	0.9	1,014	1.0	1,058	1.0	999	0.9	681	0.6
None (= Break-off before oocyte treatment or thawing)	7,022	7.0	7,831	7.6	3,524	3.4	3,875	3.6	6,240	5.6
Total Plausible Cycles	**100,754**		**102,487**		**103,545**		**107,690**		**111,752**	

**) Five centers could not be part of the nationale analyses*
***) Base quantity: Total number of women, including implausible treatment cycles*

Number of Oocyte Retrievals (Freshcycles) 1982 – 2020
Number of Thawing Cycles 1994 – 2020
Registry Participants 1982 – 2020

IVF, ICSI* – Prospective and Retrospective Data



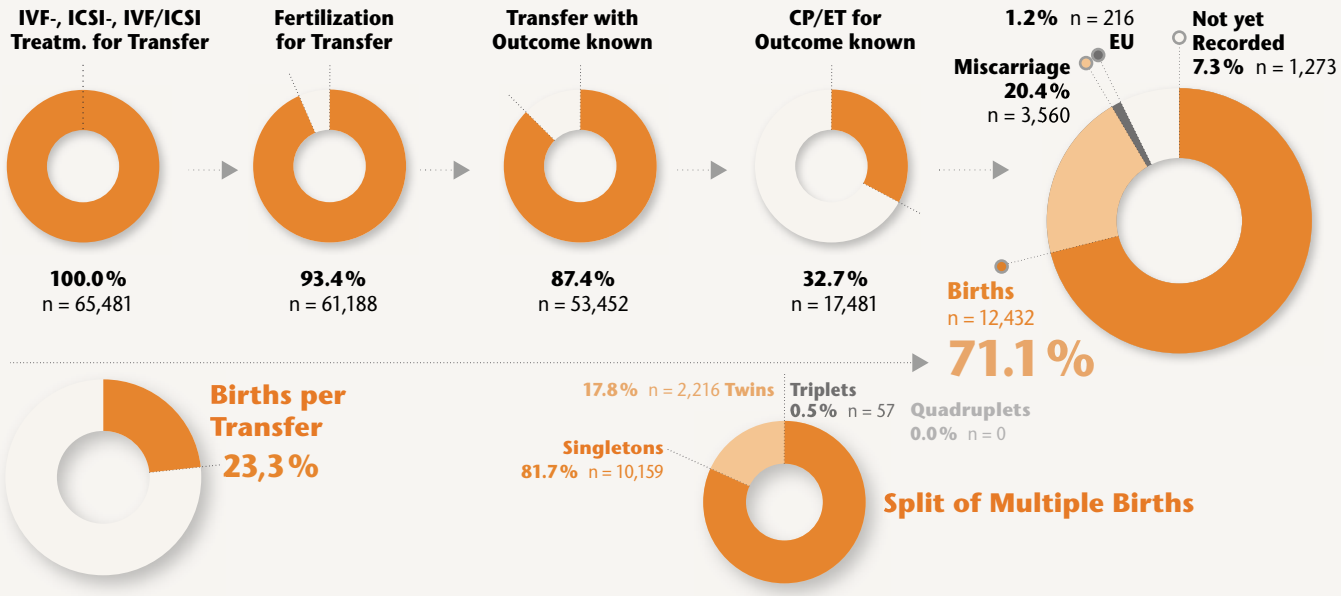
	1982	1986	1990	[...]	2002	2003	2004	[...]	2016	2017	2018	2019	2020
.	742	4,201	8,653		62,306	80,434	37,633		68,469	68,634	69,757	70,272	69,436
IVF	742	3,806	7,343	*For values from 1991 to 2001 see www.deutsches-ivf-register.de*	23,936	28,058	11,848	*For values from 2005 to 2015 see www.deutsches-ivf-register.de*	15,879	15,606	17,285	18,159	18,724
ICSI*					37,692	51,389	25,339		49,893	48,641	48,043	47,322	45,807
Thawing					14,923	14,265	16,883		25,045	27,234	28,698	30,411	32,945
Registry Participants	**5**	**28**	**53**		**112**	**116**	**120**		**128**	**127**	**131**	**131**	**134**

Data for 1982 to 2015 are published and available. Separate presentation of GIFT, ZIFT, IVF/ICSI was abstained from.

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

Summary of Statistics in Brief 2019 – CoD May 6th 2021

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



Quality of Documentation 2019/2020

Plausible and Prospectively Documented Cycles, Cycle- and Pregnancy-Outcomes

Analyses results can only be as good as the underlying data.
The D·I·R-team is grateful to all participating centers and their meticulous work!

Plausible Cycles 2020

111,752 plausible cycles out of **116,363** documented cycles. **96.1 %** of documented cycles are plausible. This does unfortunately not imply completeness of data required, thus impeding detaileed analyses.

Prospectively Documented Cycles 2020

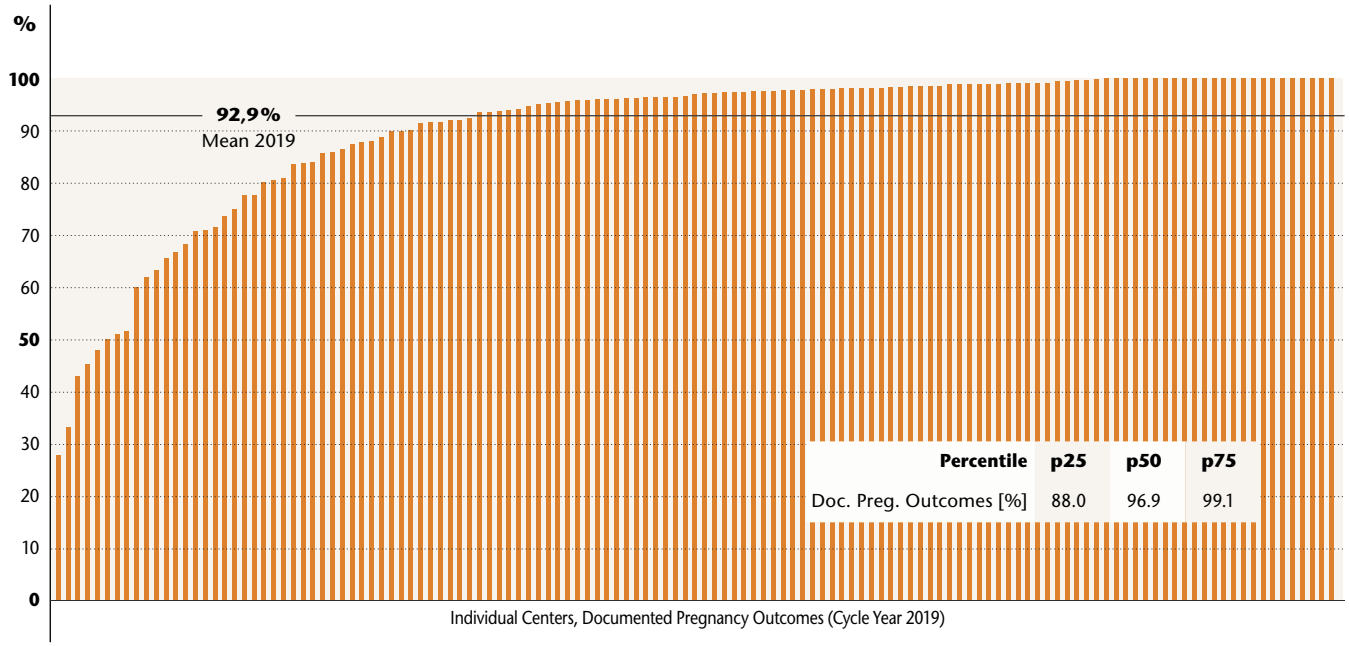
100,736 prospectively documented cycles out of **111,752** plausible cycles. **90.1 %** of plausible cycles were prospectively documented. Worldwide, only the German IVF Registry separatly shows the prospective cycles. This in inself is an indicator for quality!

Documented Cycle-Outcomes 2020

In **83,136** out of **83,889** embrytransfers, the cycle outcome was documented (**99.1 %**).

Documented Pregnancy Outcomes 2019

In **24,400** out of **26,275** clinical pregnancies, the pregnancy outcome was documented (**92.9 %**).



We are well aware that the meticulous documentation of these relevant data is troublesome, laborious and recource-binding.

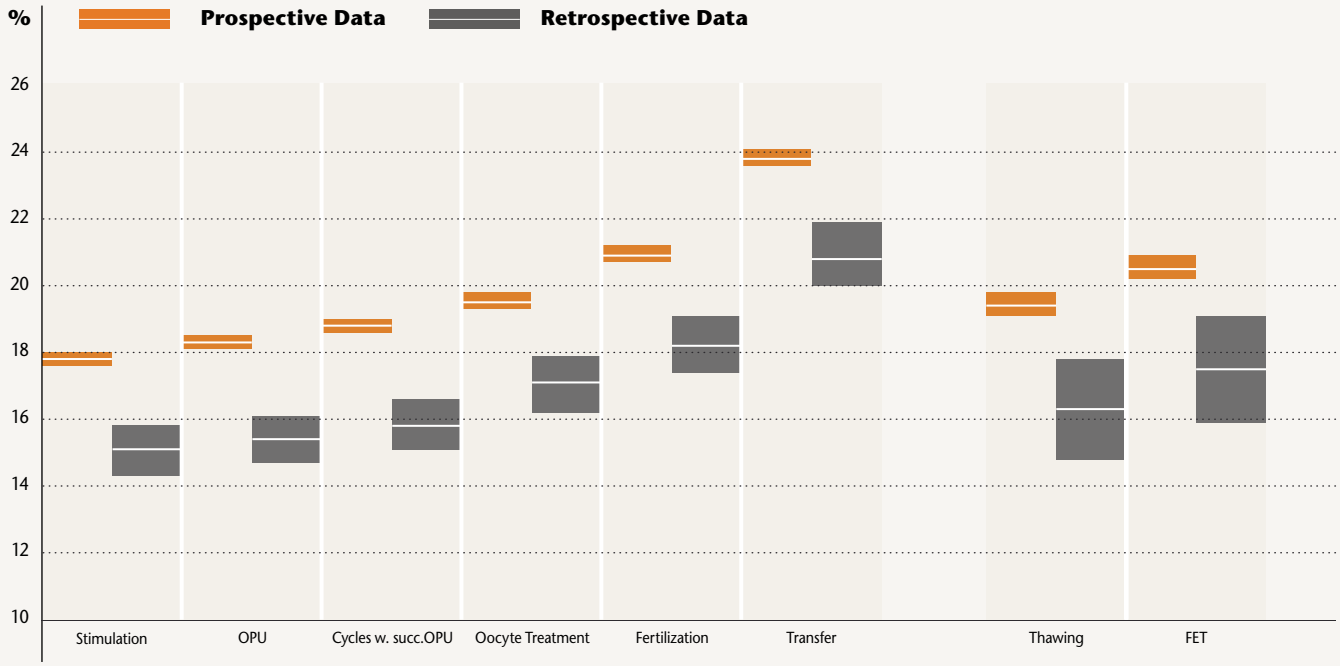
The D·I·R data analyses team is therefore very happy to stat that for the third year the percentage of prospectively documented cycles is **above 90 %**.

Unfortunatly, the percentage of documented pregnancy outcomes has decreased (**95.0 %** -> **92.9 %**). Only **62.6 %** of individual centers have reached the goal of documenting more than **95 %** of pregnancy outcomes (last annual: **72.1 %**).

The dedicated goal of the D·I·R board of directors and board of trustees is to motivate the members of the D·I·R to furthermore keep their focus on the prospectivity and to achieve also for the next year a rate of documented pregnancy outcomes of **95 plus** percent.

Birth Rate per Treatment Level in Fresh and Cryo Treatment Cycles 2018 and 2019

Prospective and Retrospective Data

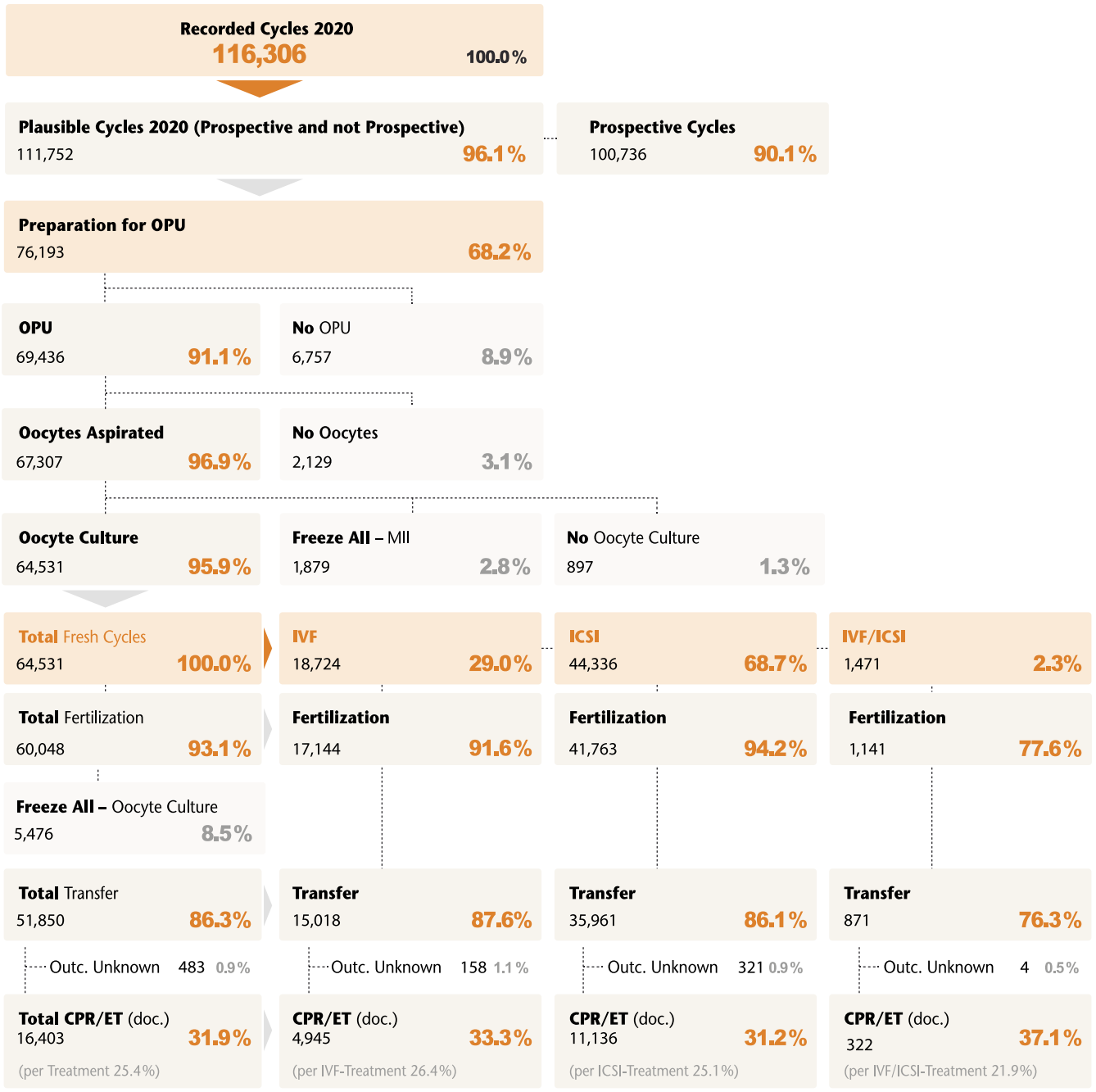


	Stimulation	OPU	Cycles with Successful OPU	Oocyte Treatment	Fertilization	Transfer	Thawing	FET
Prospective Numbers	133,925	130,576	126,897	122,112	113,842	100,289	55,871	52,885
Birth	23,846	23,846	23,846	23,846	23,846	23,846	10,862	10,862
Upper Confid. Limit*	18.0	18.5	19.0	19.8	21.2	24.1	19.8	20.9
Birth/Treatm. %	17.8	18.3	18.8	19.5	20.9	23.8	19.4	20.5
Lower Confid. Limit*	17.6	18.1	18.6	19.3	20.7	23.6	19.1	20.2
Retrospective Numbers	9,150	8,949	8,696	8,074	7,552	6,636	2,342	2,181
Birth	1,378	1,378	1,378	1,378	1,378	1,378	382	382
Upper Confid. Limit*	15.8	16.1	16.6	17.9	19.1	21.9	17.8	19.1
Birth/Treatm. %	15.1	15.4	15.8	17.1	18.2	20.8	16.3	17.5
Lower Confid. Limit*	14.3	14.7	15.1	16.2	17.4	20.0	14.8	15.9

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

D·I·R Statistics in Brief – Fresh Cycles 2020 (CoD May 6th 2021)

German IVF Registry – Prospective and Retrospective Data



For FertiPROTEKT (medical freezing), 512 cycles have been documented. Among them 320 cycles freeze all oocytes and 82 cycles freeze all oocytes cultured.

For Social Freezing, 1,565 cycles have been documented. Among them 1,281 cycles freeze all oocytes.

For PID, 288 cycles have been documented.

D·I·R Statistics in Brief – Fresh Cycles 2019 (CoD May 6th 2021)

German IVF Registry – Prospective and Retrospective Data

Recorded Cycles 2019
109,979 100.0%

Plausible Cycles 2019 (Prospective and not Prospective)
107,690 **97.9%**

Prospective Cycles
98,833 **91.8%**

Preparation for OPU
75,490 **70.1%**

OPU
70,272 **93.1%**

No OPU
5,218 **6.9%**

Oocytes Aspirated
68,251 **97.1%**

No Oocytes
2,021 **2.9%**

Oocyte Culture
65,481 **95.9%**

Freeze All – MII
1,824 **2.7%**

No Oocyte Culture
946 **1.4%**

*For Forti*PROTEKT *(medical freezing), 466 cycles have been documented. Among them 271 cycles freeze all oocytes and 98 cycles freeze all oocytes cultured.*

For Social Freezing, 1,171 cycles have been documented. Among them 982 cycles freeze all oocytes.

For PID, 268 cycles have been documented.

Total Fresh Cycles	**IVF**	**ICSI**	**IVF/ICSI**
65,481 **100.0%**	18,159 **27.7%**	45,984 **70.2%**	1,338 **2.0%**
Total Fertilization	**Fertilization**	**Fertilization**	**Fertilization**
61,188 **93.4%**	16,688 **91.9%**	43,493 **94.6%**	1,007 **75.3%**
Freeze All – Oocyte Culture			
5,100 **7.8%**			
Total Transfer	**Transfer**	**Transfer**	**Transfer**
53,715 **87.8%**	14,815 **88.8%**	38,095 **87.6%**	805 **79.9%**
Outc. Unknown 263 0.5%	Outc. Unknown 85 0.6%	Outc. Unknown 175 0.5%	Outc. Unknown 3 0.4%
Total CPR/ET (doc.)	**CPR/ET** (doc.)	**CPR/ET** (doc.)	**CPR/ET** (doc.)
17,481 **32.7%**	5,025 **34.1%**	12,143 **32.0%**	313 **39.0%**
(per Treatment 26.7%)	(per IVF-Treatment 27.7%)	(per ICSI-Treatment 26.4%)	(per IVF/ICSI-Treatment , 23.4%)
Misc. 3,560 20.4%	**Misc.** 1,018 20.3%	**Misc.** 2,476 20.4%	**Misc.** 66 21.1%
EP 216 1.2%	**EP** 70 1.4%	**EP** 144 1.2%	**EP** 2 0.6%
Not yet Recorded 1,273 7.3%	**Not yet Recorded** 358 7.1%	**Not yet Recorded** 900 7.4%	**Not yet Recorded** 15 4.8%
Birth (doc.) 12,432 **71.1%**	**Birth** (doc.) 3,579 **71.2%**	**Birth** (doc.) 8,623 **71.0%**	**Birth** (doc.) 230 **73.5%**
(per Transfer 23.3%, per Treatm. 19.0%)	(per Transfer 24.3%, per Treatm. 19.7%)	(per Transfer 22.7%, per Treatm. 18.8%)	(per Transfer 28.7%, per Treatm. 17.2%)

Births	n	%
Singletons	10,159	81.7
Twins	2,216	17.8
Triplets	57	0.5
Quadruplets	0	-

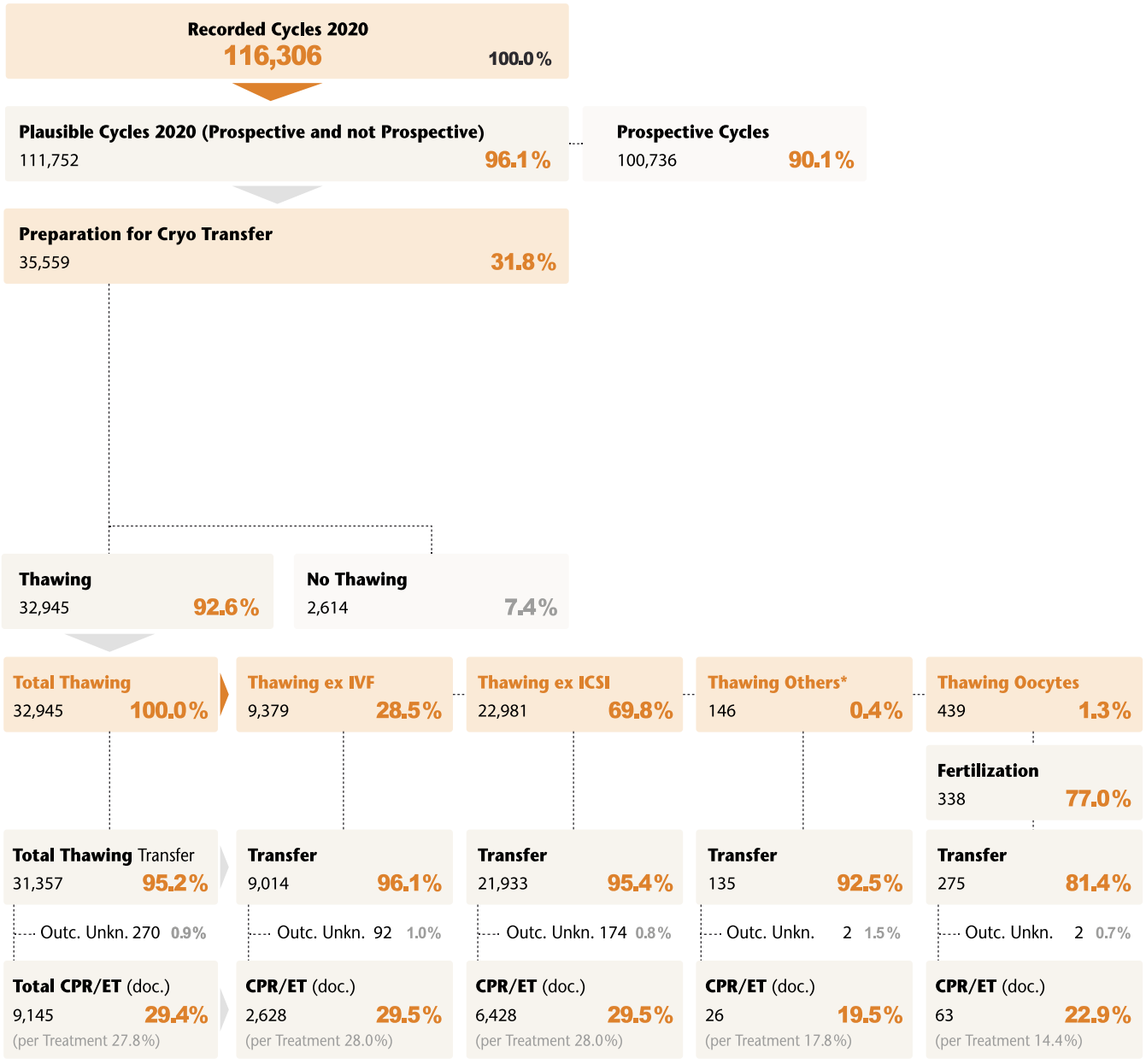
Births	n	%
Singletons	2,892	80.8
Twins	670	18.7
Triplets	17	0.5
Quadruplets	0	-

Births	n	%
Singletons	7,074	82.0
Twins	1,509	17.5
Triplets	40	0.5
Quadruplets	0	-

Births	n	%
Singletons	193	83.9
Twins	37	16.1
Triplets	0	-
Quadruplets	0	-

D·I·R Statistics in Brief – Cryo Cycles 2020 (CoD May 6th 2021)

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 2019 (CoD May 6th 2021)

German IVF Registry – Prospective and Retrospective Data

Recorded Cycles 2019
109,979 — 100.0 %

Plausible Cycles 2019 (Prospective and not Prospective)
107,690 — 97.9 %

Prospective Cycles
98,833 — 91.8 %

Preparation for Cryo Transfer
32,200 — 29.9 %

Thawing
30,411 — 94.4 %

No Thawing
1,642 — 5.4 %

	Total Thawing	Thawing ex IVF	Thawing ex ICSI	Thawing Others*	Thawing Oocytes
	30,411 — 100.0 %	8,178 — 26.9 %	21,735 — 71.5 %	89 — 0.3 %	409 — 1.3 %
					Fertilization 279 — 68.2 %
	Total Thawing Transfer 28,745 — 94.5 %	**Transfer** 7,812 — 95.5 %	**Transfer** 20,626 — 94.9 %	**Transfer** 76 — 85.4 %	**Transfer** 231 — 82.8 %
	Outc. Unkn. 138 0.5 %	Outc. Unkn. 40 0.5 %	Outc. Unkn. 94 0.5 %	Outc. Unkn. 4 5.3 %	Outc. Unkn. 0 0.0 %
	Total CPR/ET (doc.) 8,589 — 30.0 % (per Treatment 28.2 %)	**CPR/ET** (doc.) 2,433 — 31.3 % (per Treatment 29.8 %)	**CPR/ET** (doc.) 6,088 — 29.7 % (per Treatment 28.0 %)	**CPR/ET** (doc.) 14 — 19.4 % (per Treatment 15.7 %)	**CPR/ET** (doc.) 54 — 23.4 % (per Treatment 13.2 %)
	Misc. 2,064 24.0 % **EP** 89 1.0 % **Not yet Rec.** 586 6.8 %	**Misc.** 583 24.0 % **EP** 32 1.3 % **Not yet Rec.** 148 6.1 %	**Misc.** 1,466 24.1 % **EP** 56 0.9 % **Not yet Rec.** 431 7.1 %	**Misc.** 4 28.6 % **EP** 0 0.0 % **Not yet Rec.** 3 21.4 %	**Misc.** 11 20.4 % **EP** 1 1.9 % **Not yet Rec.** 4 7.4 %
	Birth (doc.) 5,850 68.1 % (per Tr. 20.4 %, p. Treatm. 19.2 %)	**Birth** (doc.) 1,670 68.6 % (per Tr. 21.4 %, p. Treatm. 20.4 %)	**Birth** (doc.) 4,135 67.9 % (per Tr. 20.0 %, p. Treatm. 19.0 %)	**Birth** (doc.) 7 50.0 % (per Tr. 9.2 %, p. Treatm. 7.9 %)	**Birth** (doc.) 38 70.4 % (per Tr. 16.5 %, p. Treatm. 9.3 %)

Briths	n	%
Singletons	5,059	86.5
Twins	763	13.0
Triplets	28	0.5
Quadruplets	0	–

Briths	n	%
Singletons	1,443	86.4
Twins	219	13.1
Triplets	8	0.5
Quadruplets	0	–

Briths	n	%
Singletons	3,587	86.7
Twins	528	12.8
Triplets	20	0.5
Quadruplets	0	–

Briths	n	%
Singletons	4	57.1
Twins	3	42.9
Triplets	0	–
Quadruplets	0	–

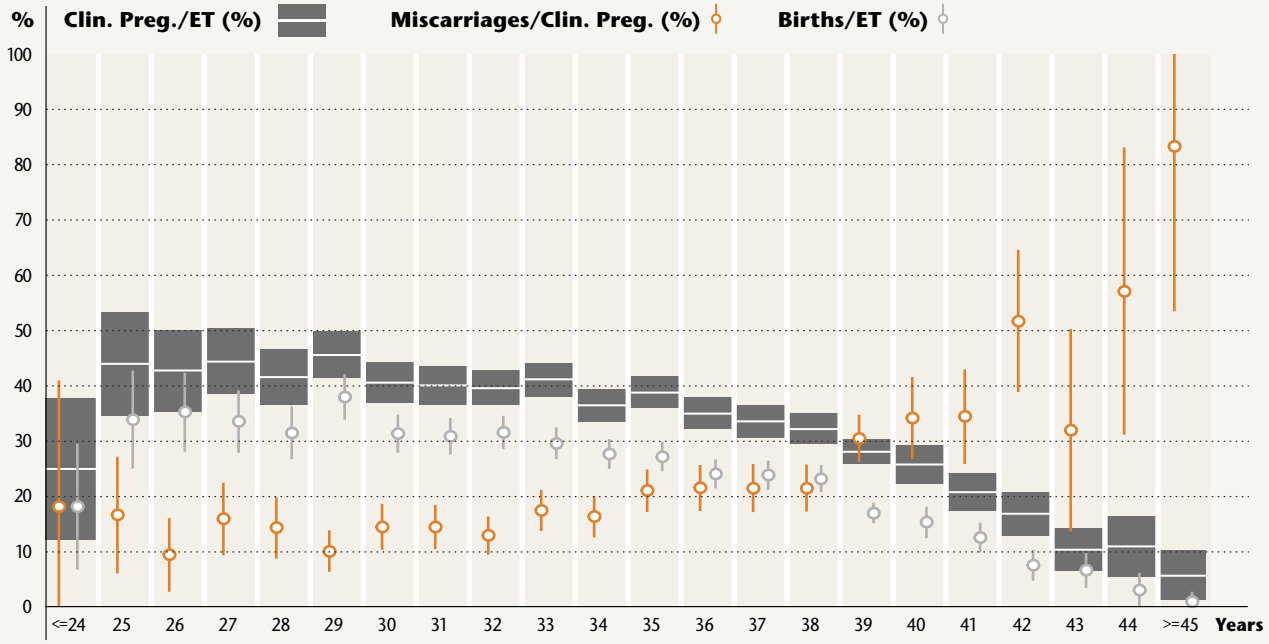
Briths	n	%
Singletons	25	65.8
Twins	13	34.2
Triplets	0	–
Quadruplets	0	–

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

Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2019

Prospective Data

IVF 2019



n	44	109	175	269	368	547	695	743	943	976	1,048	1,116	1,064	1,027	1,125	1,610	617	575	346	243	127	105	**ET**
%	25.0	44.0	42.8	44.4	41.6	45.6	40.6	40.1	39.6	41.2	36.5	38.8	35.0	33.6	32.2	28.1	25.8	20.8	16.9	10.4	11.0	5.7	**CP/ET**
n	8	37	61	90	116	206	218	229	295	288	287	303	255	244	261	272	94	72	26	16	4	1	**Birth**

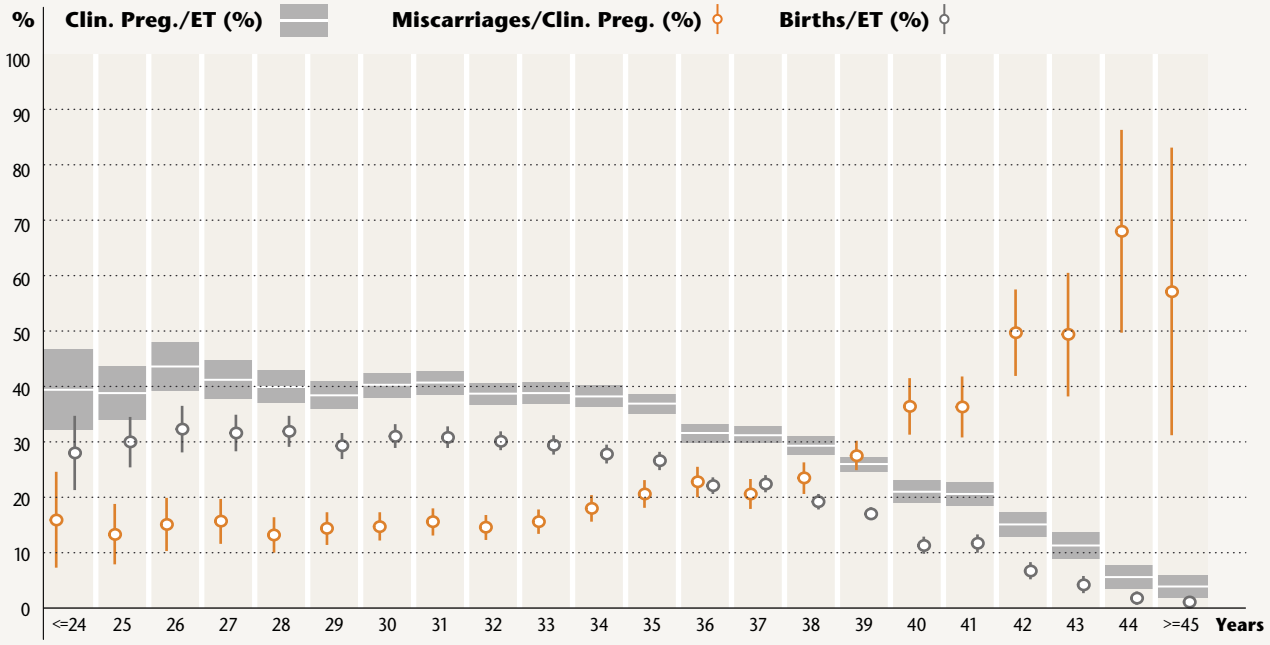
Age in Years	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Total
OPU	1,898	5,377	7,217	746	698	432	307	163	135	**16,973**
Oocytes[1]	11.5	10.5	8.4	6.6	6.4	6.0	5.3	4.8	4.0	**9.0**
Insemination[1]	11.4	10.3	8.2	6.6	6.2	5.9	5.3	4.8	3.9	**8.9**
ET	1,512	4,405	5,942	617	575	346	243	127	105	**13,872**
ET/OPU %	79.7	81.9	82.3	82.7	82.4	80.1	79.2	77.9	77.8	**81.6**
Trans. Embr.[1]	1.67	1.63	1.65	1.65	1.65	1.75	1.66	1.75	1.71	**1.65**
CP	652	1,728	1,958	158	119	58	25	14	6	**4,718**
CP/OPU %	34.4	32.1	27.1	21.2	17.0	13.4	8.1	8.6	4.4	**27.8**
CP/ET Upper Conf. Limit* %	45.9	40.9	34.3	29.3	24.1	20.8	14.3	16.5	10.2	**35.0**
CP/ET %	**43.4**	**39.5**	**33.1**	**25.8**	**20.8**	**16.9**	**10.4**	**11.0**	**5.7**	**34.2**
CP/ET Lower Conf. Limit* %	40.8	38.0	31.9	22.3	17.4	12.9	6.6	5.6	1.3	**33.4**
CP/ET %: 2 Embr. Transf. + min. 2 2-PN Surplus	49.9	47.1	39.9	33.9	27.1	28.6	13.5	25.7	16.7	**42.6**
CP/ET %: 1 Embr. Transf. + min. 3 2-PN Surplus	44.3	36.6	35.7	27.8	29.0	12.5	10.5	0.0	0.0	**36.1**
Misc./CP Upper Conf. Limit* %	15.3	17.0	25.4	41.6	43.0	64.6	50.3	83.1	100.0	**21.3**
Misc./CP %	**12.7**	**15.3**	**23.5**	**34.2**	**34.5**	**51.7**	**32.0**	**57.1**	**83.3**	**20.2**
Misc./CP Lower Conf. Limit* %	10.2	13.6	21.6	26.8	25.9	38.9	13.7	31.2	53.5	**19.1**
Births/ET Upper Conf. Limit* %	36.8	31.4	23.6	18.2	15.3	10.4	9.8	6.2	2.8	**25.2**
Births/ET %	34.4	30.1	22.6	15.4	12.6	7.6	6.7	3.1	1.0	**24.5**
Births/ET Lower Conf. Limit* %	32.0	28.7	21.5	12.5	9.9	4.8	3.5	0.1	0.0	**23.8**

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 2019

Prospective Data

ICSI 2019



n	175	389	487	764	1,087	1,437	1,825	2,097	2,441	2,608	2,595	2,827	2,889	2,857	2,872	4,104	1,620	1,422	1,056	687	451	359	**ET**
%	39.4	38.8	43.6	41.2	39.9	38.4	40.3	40.7	38.7	38.8	38.2	36.9	31.6	31.2	29.3	26.0	21.0	20.6	15.1	11.3	5.6	3.9	**CP/ET**
n	49	116	157	240	344	419	565	642	733	764	718	748	635	639	549	696	182	166	71	29	8	4	**Birth**

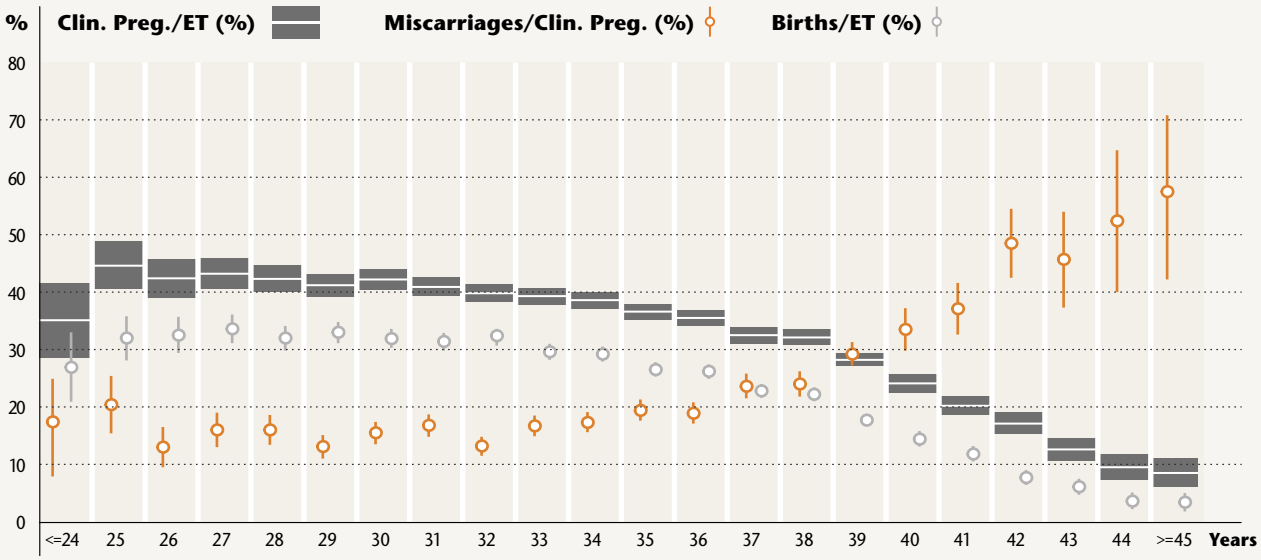
Age in Years	**<= 29**	**30 – 34**	**35 – 39**	**40**	**41**	**42**	**43**	**44**	**>=45**	**Total**
OPU	5,230	13,753	18,476	1,987	1,754	1,345	880	583	476	**44,484**
Oocytes[1]	12.3	11.1	8.8	7.2	6.6	6.0	5.6	5.1	4.4	**9.5**
Injection[1]	9.6	8.7	7.0	5.7	5.3	4.9	4.5	4.1	3.6	**7.5**
ET	4,339	11,566	15,549	1,620	1,422	1,056	687	451	359	**37,049**
ET/OPU %	83.0	84.1	84.2	81.5	81.1	78.5	78.1	77.4	75.4	**83.3**
Trans. Embr.[1]	1.70	1.70	1.69	1.71	1.73	1.70	1.74	1.70	1.69	**1.70**
CP	1,725	4,515	4,739	338	292	159	77	25	14	**11,884**
CP/OPU %	33.0	32.8	25.6	17.0	16.6	11.8	8.8	4.3	2.9	**26.7**
CP/ET Upper Conf. Limit*%	41.4	40.1	31.3	23.0	22.7	17.3	13.6	7.7	5.9	**32.7**
CP/ET %	**39.9**	**39.2**	**30.6**	**21.0**	**20.6**	**15.1**	**11.3**	**5.6**	**3.9**	**32.2**
CP/ET Lower Conf. Limit*%	38.5	38.3	29.9	19.0	18.5	12.9	8.9	3.4	1.9	**31.7**
CP/ET %: 2 Embr. Transf. + min. 2 2-PN Surplus	45.4	45.3	38.9	27.0	28.4	20.8	18.6	10.1	12.8	**40.7**
CP/ET %: 1 Embr. Transf. + min. 3 2-PN Surplus	39.2	38.8	33.0	29.4	22.1	15.0	16.7	33.3	12.5	**35.4**
Misc./CP Upper Conf. Limit*%	16.0	16.8	24.3	41.5	41.8	57.5	60.5	86.3	83.1	**21.1**
Misc./CP %	**14.4**	**15.8**	**23.1**	**36.4**	**36.3**	**49.7**	**49.4**	**68.0**	**57.1**	**20.4**
Misc./CP Lower Conf. Limit*%	12.7	14.7	21.9	31.3	30.8	41.9	38.2	49.7	31.2	**19.7**
Births/ET Upper Conf. Limit*%	32.1	30.6	21.7	12.9	13.4	8.3	5.8	3.0	2.2	**23.4**
Births/ET %	30.7	29.7	21.1	11.3	11.7	6.7	4.2	1.8	1.1	**23.0**
Births/ET Lower Conf. Limit*%	29.3	28.9	20.4	9.8	10.0	5.2	2.7	0.6	0.0	**2.5**

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 2015 – 2019

Prospective Data

IVF 2015 – 2019



n	208	560	839	1,360	1,824	2,467	3,057	3,421	3,967	4,325	4,591	4,861	4,765	4,518	4,695	6,665	2,624	2,210	1,566	1,100	662	472	**ET**
%	35.1	44.6	42.4	43.2	42.3	41.2	42.2	40.9	39.8	39.3	38.6	36.6	35.5	32.5	32.1	28.2	24.1	20.2	17.1	12.6	9.5	8.5	**CP/ET**
n	56	179	271	456	582	810	974	1,070	1,271	1,277	1,336	1,286	1,242	1,028	1,039	1,178	377	260	120	67	24	16	**Birth**

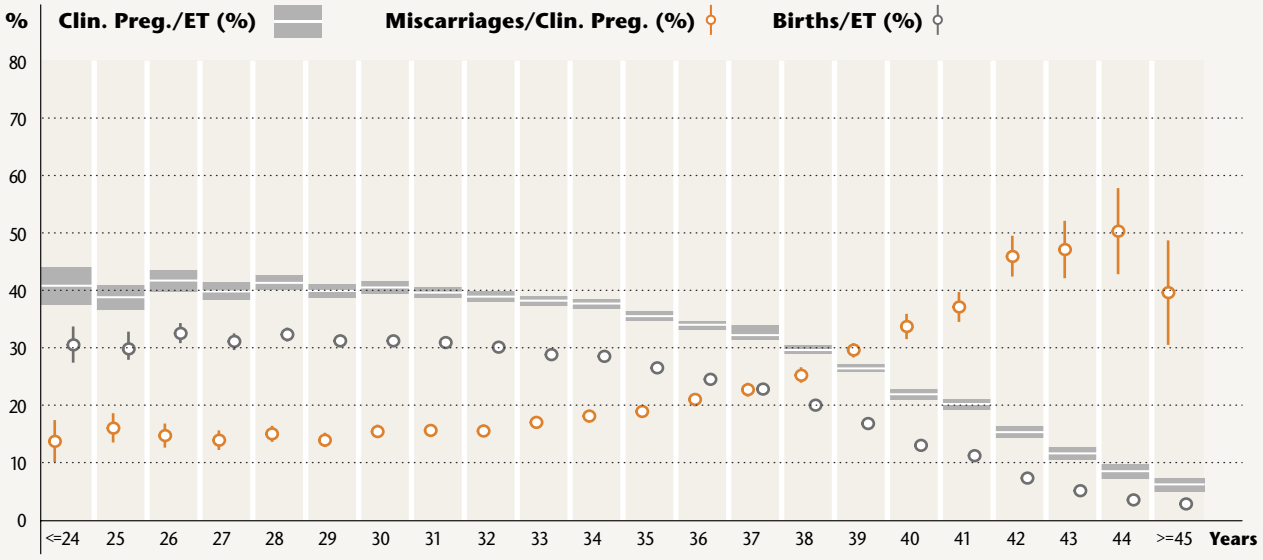
Alter in Jahren	**<= 29**	**30 – 34**	**35 – 39**	**40**	**41**	**42**	**43**	**44**	**>=45**	**Gesamt**
OPU	8,884	22,981	30,138	3,117	2,692	1,947	1,405	810	637	**72,611**
Oocytes[1]	11.7	10.5	8.5	6.9	6.6	6.1	5.4	5.1	4.2	**9.2**
Insemination[1]	11.3	10.1	8.1	6.6	6.3	5.8	5.3	5.0	4.2	**8.8**
Transfer	7,258	19,361	25,504	2,624	2,210	1,566	1,100	662	472	**60,757**
ET/OPU %	81.7	84.2	84.6	84.2	82.1	80.4	78.3	81.7	74.1	**83.7**
Trans. Embr.[1]	1.76	1.74	1.75	1.77	1.77	1.80	1.79	1.79	1.72	**1.75**
CP	3,044	7,716	8,301	630	445	268	138	63	40	**20,645**
CP/OPU %	34.3	33.6	27.5	20.2	16.5	13.8	9.8	7.8	6.3	**28.4**
CP/ET Upper Confidence Limit* %	43.2	40.7	33.2	25.8	21.9	19.0	14.5	11.8	11.0	**34.5**
CP/ET %	**42.1**	**40.0**	**32.7**	**24.1**	**20.2**	**17.1**	**12.6**	**9.5**	**8.5**	**34.1**
CP/ET Lower Confidence Limit* %	40.9	39.3	32.1	22.5	18.6	15.3	10.6	7.3	6.0	**33.7**
CP/ET %: 2 Embr. Transf. + min. 2 2-PN Surplus	47.5	46.6	39.8	32.8	29.4	25.4	13.2	10.0	8.9	**39.4**
CP/ET %: 1 Embr. Transf. + min. 3 2-PN Surplus	43.4	38.8	34.0	26.0	29.2	24.1	12.8	9.7	8.7	**34.4**
Misc./CP Upper Confidence Limit* %	16.3	16.7	24.0	37.2	41.6	54.5	54.0	64.7	72.8	**21.0**
Misc./CP %	**15.0**	**15.9**	**23.1**	**33.5**	**37.1**	**48.5**	**45.7**	**52.4**	**57.5**	**20.5**
Misc./CP Lower Confidence Limit* %	13.8	15.1	22.2	29.8	32.6	42.5	37.3	40.0	42.2	**19.9**
Births/ET Upper Confidence Limit* %	33.6	31.4	23.2	15.8	13.2	9.0	7.5	5.1	5.0	**25.0**
Births/ET %	32.5	30.7	22.7	14.4	11.8	7.7	6.1	3.6	3.4	**24.6**
Births/ET Lower Confidence Limit* %	31.5	30.1	22.2	13.1	10.5	6.4	4.7	2.2	1.8	**24.3**

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 2015 – 2019

Prospective Data

ICSI 2015 – 2019



n	838	2,106	2,746	4,083	5,798	7,463	9,105	10,430	11,628	12,491	13,398	14,289	14,027	13,744	13,927	19,011	7,949	6,475	4,898	3,296	2,004	1,807	**ET**
%	40.8	38.8	41.7	39.8	41.3	39.9	40.5	39.6	38.9	38.2	37.7	35.5	34.0	32.2	29.6	26.4	21.9	20.2	15.3	11.6	8.5	6.2	**CP/ET**
n	256	628	892	1,265	1,867	2,324	2,832	3,210	3,494	3,590	3,804	3,775	3,424	3,125	2,777	3,193	1,030	721	355	166	70	50	**Birth**

Alter in Jahren	**<= 29**	**30 – 34**	**35 – 39**	**40**	**41**	**42**	**43**	**44**	**>=45**	**Gesamt**
OPU	26,909	65,853	87,041	9,556	7,934	6,156	4,230	2,601	2,533	**212,813**
Oocytes[1]	12.4	11.2	8.9	7.3	6.8	6.3	5.9	5.4	4.8	**9.7**
Insemination[1]	9.5	8.7	7.0	5.7	5.4	5.0	4.6	4.3	3.7	**7.5**
Transfer	23,034	57,052	74,998	7,949	6,475	4,898	3,296	2,004	1,807	**181,513**
ET/OPU %	85.6	86.6	86.2	83.2	81.6	79.6	77.9	77.0	71.3	**85.3**
Trans. Embr.[1]	1.81	1.80	1.80	1.80	1.82	1.79	1.79	1.77	1.73	**1.80**
CP	9,287	22,111	23,354	1,733	1,304	749	380	169	111	**59,198**
CP/OPU %	34.5	33.6	26.8	18.1	16.4	12.2	9.0	6.5	4.4	**27.8**
CP/ET Upper Confidence Limit* %	41.0	39.2	31.6	22.8	21.2	16.3	12.7	9.7	7.3	**32.9**
CP/ET %	**40.4**	**38.8**	**31.2**	**21.9**	**20.2**	**15.3**	**11.6**	**8.5**	**6.2**	**32.7**
CP/ET Lower Confidence Limit* %	39.8	38.4	30.9	21.0	19.2	14.3	10.5	7.2	5.0	**32.5**
CP/ET %: 2 Embr. Transf. + min. 2 2-PN Surplus	44.6	44.0	38.5	29.0	28.3	22.6	16.0	16.9	15.7	**40.4**
CP/ET %: 1 Embr. Transf. + min. 3 2-PN Surplus	39.6	39.2	32.1	26.1	24.0	19.8	17.2	25.0	20.0	**35.2**
Misc./CP Upper Confidence Limit* %	15.2	16.9	24.0	35.9	39.7	49.5	52.1	57.8	48.7	**20.9**
Misc./CP %	**14.5**	**16.4**	**23.4**	**33.7**	**37.1**	**45.9**	**47.1**	**50.3**	**39.6**	**20.6**
Misc./CP Lower Confidence Limit* %	13.7	15.9	22.9	31.5	34.5	42.4	42.1	42.8	30.5	**20.2**
Births/ET Upper Confidence Limit* %	32.1	30.1	22.1	13.8	12.0	8.0	5.8	4.3	3.5	**3.9**
Births/ET %	31.5	29.7	21.8	13.0	11.2	7.3	5.1	3.5	2.8	**23.7**
Births/ET Lower Confidence Limit* %	30.9	29.4	21.5	12.3	10.4	6.5	4.3	2.7	2.0	**23.5**

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

Results IVF, ICSI (COHS) and IVF and ICSI in Natural Cycles 2019

Prospective Data

IVF 2019

	n	%	Fertilization %	Embryo %	Transfer %	Clin. Preg. %
Performed ICSI Treatm.	16,989	100.0				
Successful Fertilization*	15,605	91.9	100.0			
Freeze All Oozyte Culture	1,212	7.1	7.8			
Minimum 1 Embryo**	14,338	90.9	99.6	100.0		
ET Performed	13,866	81.6	88.9	96.7	100.0	
Clin. Pregnancy	4,714	**27.7**	30.2	32.9	**34.0**	100.0
Birth	3,380	**19.9**	**21.7**	**23.6**	**24.4**	**71.7**
Miscarriage	951					20.2
Ectopic Pregnancy	65					1.4
Not Yet Recorded	318					6.7

ICSI 2019

	n	%	Fertilisation %	Embryo vorh.%	Transfer %	Klin. SS %
Performed ICSI Treatm.	44,506	100.0				
Successful Fertilization*	41,855	94.0	100.0			
Freeze All Oozyte Culture	3,363	7.6	8.0			
Minimum 1 Embryo**	38,320	93.1	99.6	100.0		
ET Performed	36,581	82.2	87.4	95.5	100.0	
Clin. Pregnancy	11,755	**26.4**	28.1	30.7	**32.1**	100.0
Birth	8,385	**18.8**	**20.0**	**21.9**	**22.9**	**71.3**
Miscarriage	2,397					20.4
Ectopic Pregnancy	141					1.2
Not Yet Recorded	832					7.1

IVF and ICSI in Natural Cycles 2019**

	n	%	Behandlung %	Fertilisation %	Embryo vorh. %	Transfer %	Klin. SS %
Started Cycles	3,812	100.0					
No Oocyte Treatment	1,041	27.3					
Treatm. in Natural Cycles***	2,771	72.7	100.0				
Successful Fertilization*	2,353	61.7	84.9	100.0			
Freeze All Oozyte Culture	343	9.0	12.4	14.6			
Minimum 1 Embryo**	1,988	57.3	81.9	98.9	100.0		
ET Performed	1,920	50.4	69.3	81.6	96.6	100.0	
Clin. Pregnancy	518	**13.6**	**18.7**	22.0	26.1	**27.0**	100.0
Birth	381	**10.0**	**13.7**	**16.2**	**19.2**	**19.8**	**73.6**
Miscarriage	112						21.6
Ectopic Pregnancy	7						1.4
Not Yet Recorded	18						3.5

**) Successful fertilization of at least one oocyte per cycle.*
***) %-rates adjusted by freeze all oocytes culture.*
****) Selection of cycles: without stimulation or stimulation only by Clomiphene or Letrozole.*

Results of Thawing-Cycles, TESE, IVF and ICSI with Donor Semen 2019

Prospective Data

Cryo Transfer Cycles 2019

	n	%	PN/Embryo %	Transfer %	Clin. Preg. %
Cryo Transfer Cycles	28,961	100.0			
Thawed PN/Embryo	28,709	99.1	100.0		
ET Performed	27,554	95.1	96.0	100.0	
Clin. Pregnancy	8,262	28.5	28.8	**30.0**	100.0
Birth	5,647	**19.5**	**19.7**	**20.5**	**68.3**
Miscarriage	2,011				24.3
Ectopic Pregnancy	83				1.0
Not Yet Recorded	521				6.3

TESE 2019

	n	%	Fertilization %	Embryo %	Transfer %	Clin. Preg. %
Perf. ICSI/TESE Treatm.	2,159	100.0				
Successful Fertilization*	1,980	91.7	100.0			
Freeze All Oozyte Culture	169	7.8	8.5			
Minimum 1 Embryo**	1,777	89.3	98.1	100.0		
ET Performed	1,688	78.2	85.3	95.0	100.0	
Clin. Pregnancy	491	22.7	24.8	27.6	**29.1**	100.0
Birth	366	**17.0**	**18.5**	**20.6**	**21.7**	**74.5**
Miscarriage	94					19.1
Ectopic Pregnancy	5					1.0
Not Yet Recorded	26					5.3

IVF and ICSI with Donor Semen 2019

	n	%	Fertilization %	Embryo %	Transfer %	Clin. Preg. %
ART-Treatm. (donor sperm)***	1,404	100.0				
Successful Fertilization*	1,353	96.4	100.0			
Freeze All Oozyte Culture	87	6.2	6.4			
Minimum 1 Embryo**	1,251	95.0	98.8	100.0		
ET Performed	1,189	84.7	87.9	95.0	100.0	
Clin. Pregnancy	435	31.0	32.2	34.8	**36.6**	100.0
Birth	319	**22.7**	**23.6**	**25.5**	**26.8**	**73.3**
Miscarriage	99					22.8
Ectopic Pregnancy	4					0.9
Not Yet Recorded	13					3.0

**) Successful fertilization of at least one oocyte per cycle.*
***) %-rates adjusted by freeze all oocytes culture.*
****) Currently, the data processing is not completely validated. Only cycles with definite data validation were included in this analysis.*

Culture According to the "German Middle Way" and Impact on Therapy Outcome – Fresh Cycles 2020

Prospective and Retrospective Data

Number of centers choosing >=3 x 2PN for extended culture: n=128

Oocyte Treatment (All) - Culture >= 3 x 2PN
26,560

Oocyte Treatment - Culture >= 3 x 2PN for Transfer on Day 4-6
18,499

Number of Transfer Cycles with SET Day 4-6	7,028	
CP/ET (doc.)*	2,471	**35.8%**
Outcome unknown	37	**0.5%**

Miscarriage	502	21.8%
EP	29	1.3%
Not yet Recorded	186	8.1%
Birth (doc.)	**1,754**	**76.3%**
	per Transfer	25.0%

Births	**n**	**%**
Singletons	1,719	98.0
Twins	33	1.9
Triplets	2	0.1
Quadruplets	0	0.0

Multiple Pregnancy Rate	**2.0%**

Number of Transfer Cycles with DET Day 4-6	10,771	
CP/ET (doc.)*	4.592	**42.6%**
Outcome unknown	42	**0.4%**

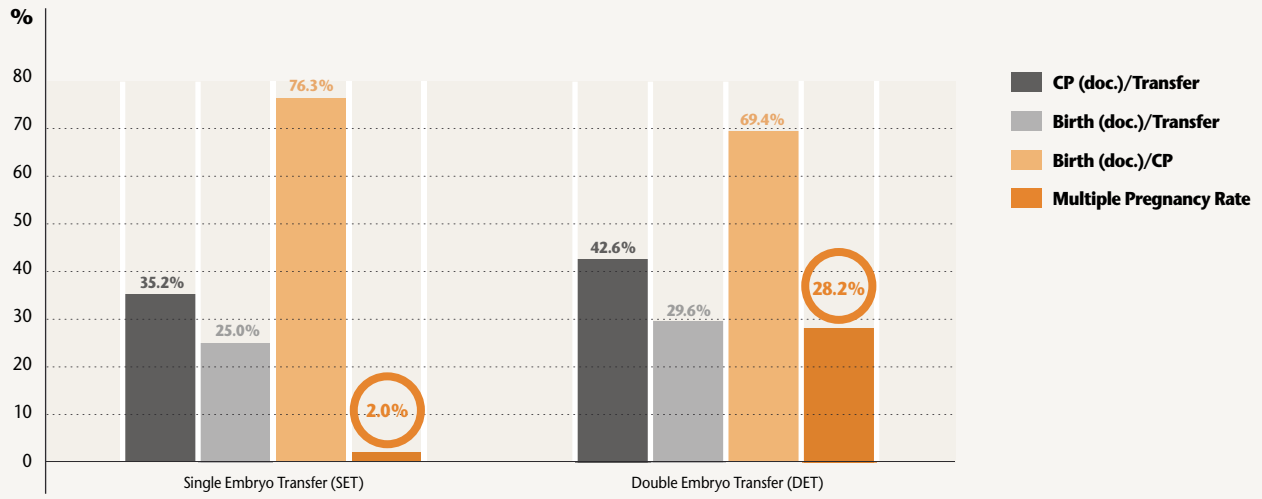
Miscarriage	899	13.8%
EP	76	1.2%
Not yet Recorded	431	6.6%
Birth (doc.)	**3,186**	**69.4%**
	per Transfer	29.6%

Births	**n**	**%**
Singletons	2,288	71.8
Twins	877	27.5
Triplets	21	0.7
Quadruplets	0	0.0

Multiple Pregnancy Rate	**28.2%**

**) please note: documented clinical pregnancies (10,418) per transfer on other days than 4-6 (35,916): 29.0%*

Comparison SET and DET "German Middle Way" Fresh Cycles 2019



Culture According to the "German Middle Way" and Impact on Therapy Outcome – Thawing Cycles Embryos 2019

Prospective and Retrospective Data

Number of centers transfering previously cryopreserved embyos: n=121

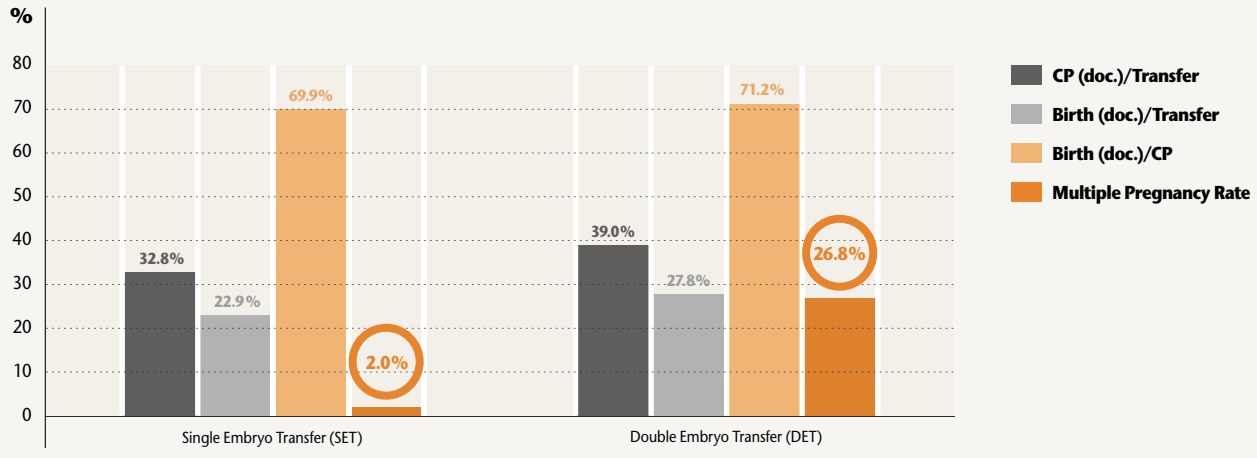
Thawing total
30,411

Thawing Embryos
10,612

Transfer Single ET 6,457			Transfer Double ET 2,632		
CP/ET (doc.) 2,115	**32.8%**		**CP/ET (doc.)** 1,026	**39.0%**	
Outcome unknown 11	**0.2%**		**Outcome unknown** 9	**0.3%**	
Miscarriage	548	25.9%	Miscarriage	225	21.9%
EP	17	0.8%	EP	6	0.6%
Not yet Recorded	71	3.4%	Not yet Recorded	64	6.2%
Birth (doc.)	**1,479** per Transfer	**69.9%** 22.9%	**Birth (doc.)**	**731** per Transfer	**71.2%** 27.8%
Births	**n**	**%**	**Births**	**n**	**%**
Singletons	1,449	98.0	Singletons	535	73.2
Twins	30	2.0	Twins	192	26.3
Triplets	0	0.0	Triplets	4	0.5
Quadruplets	0	0.0	Quadruplets	0	0.0
Multiple Pregnancy Rate	**2.0%**		**Multiple Pregnancy Rate**	**26.8%**	

Compared to thawing 2PNs:
Documented clinical pregnancies (5,066) / transfers with outcome known(18,262): 27.7%
- thereof day of transfer 2/3: documented clinical pregnancies (2,289) / transfers with outcome known (10,388): 22.0%
- thereof day of transfer 5/6: documented clinical pregnancies (2,390) / transfers with outcome known (6,511): 36.70%
- 1,363 transfers could not be allocated clearly.

Comparison SET and DET "German Middle Way" Thawing Cycles Embryos 2019

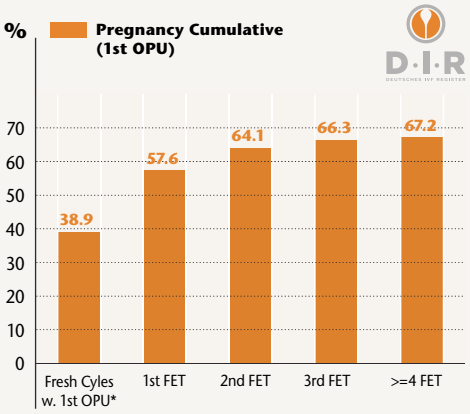


Pregnancies Cumulative 2017 – 2019 Based on First OPU

IVF, ICSI, Cryo Cycles – Prospective Data

The analysis deals with cumulative pregnancy rates after the first oocyte pickup (OPU) with fresh embryo transfer (ET) as well as the consecutive frozen embryo transfers (FET) including all cycles for which a cryopreservation of surplus fertilized oocytes had been available. Cycles without fresh transfer (freeze all) were excluded. Cryopreservation of surplus fertilized oocytes had been performed for 34 % of the primary oocyte pickups.

For that subgroup the pregnancy rate (PR) after fresh embryo transfer was 39 % of all patients of all ages. The pregnancy rates for up to four transfers added up to a cumulative rate of 67 %.



2017 – 2019 (Total)	1st OPU*	Cryo Cycles Based on 1st OPU	CP	CP/OPU / CP/FET (%)	CP Cumulative	CP/OPU Cumulative (%)
Fresh Cyles with 1st OPU*	32,725		12,724	38.9	12,724	**38.9**
1st Transfer (FET)		20,902	6,113	29.2	18,837	**57.6**
2nd Transfer (FET)		8,201	2,151	26.2	20,988	**64.1**
3rd Transfer (FET)		2,824	695	24.6	21,683	**66.3**
>= 4th Transfer (FET)		975	317	32.5	22,000	**67.2**

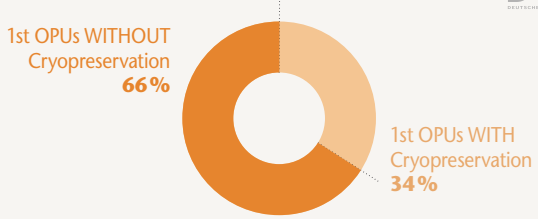
1st OPU 2017	1st OPU*	Cryo Cycles Based on 1st OPU	CP	CP/OPU / CP/FET (%)	CP Cumulative	CP/OPU Cumulative (%)
Fresh Cyles with 1st OPU*	11,819		4,644	39.3	4,644	**39.3**
1st Transfer (FET)		7,964	2,244	28.2	6,888	**58.3**
2nd Transfer (FET)		3,150	798	25.3	7,686	**65.0**
3rd Transfer (FET)		1,087	260	23.9	7,946	**67.2**
>= 4th Transfer (FET)		386	131	33.9	8,077	**68.3**

1st OPU 2018	1st OPU*	Cryo Cycles Based on 1st OPU	CP	CP/OPU / CP/FET (%)	CP Cumulative	CP/OPU Cumulative (%)
Fresh Cyles with 1st OPU*	10,336		3,969	38.4	3,969	**38.4**
1st Transfer (FET)		6,674	2,033	30.5	6,002	**58.1**
2nd Transfer (FET)		2,651	722	27.2	6,724	**65.1**
3rd Transfer (FET)		924	230	24.9	6,954	**67.3**
>= 4th Transfer (FET)		325	102	31.4	7,056	**68.3**

1st OPU 2019	1st OPU*	Cryo Cycles Based on 1st OPU	CP	CP/OPU / CP/FET (%)	CP Cumulative	CP/OPU Cumulative (%)
Fresh Cyles with 1st OPU*	10,570		4,111	38,9	4,111	**38.9**
1st Transfer (FET)		6,264	1,836	29,3	5,947	**56.3**
2nd Transfer (FET)		2,400	631	26,3	6,578	**62.2**
3rd Transfer (FET)		813	205	25,2	6,783	**64.2**
>= 4th Transfer (FET)		264	84	31,8	6,867	**65.0**

**) Cycles without fresh transfer (freeze all) and cycles without cryopreservation were excluded. Sample sizes: 1st OPU = 106,721; 1st OPU without freeze all = 96,354; Cycles without cryopreservation = 63,629; Cycles with Cryopreservation = 32,725.*

1st OPU without Freeze All: Ratio Cycles with and without Cryopreservation



The analysis reveals for the first time the increased cumulative probability of pregnancy when cryopreservation of surplus fertilized oocytes is possible and achievable.

Pregnancies Cumulative 2016 – 2019 as a Function of Female Age

IVF, ICSI, Cryo Cycles – Prospective Data

Age Groups <= 29	Retrievals	CP (Fresh Cycles)	CP (Fresh Cycles) in %	Cryo Cycle w. Transfer	CP (Cryo Cycles)	CP/ET (Cryo Cycles) in %	Cum. CP	Cumulative Pregnancy Rate in %
1. Transfer	12,358	5,198	42.1	2,473	903	36.5	6,101	**41.1**
2. Transfer	4,039	1,583	39.2	4,717	1,566	33.2	9,250	**62.4**
3. Transfer	1,852	700	37.8	2,618	799	30.5	10,749	**72.5**
4. Transfer	861	312	36.2	1,312	386	29.4	11,447	**77.2**
>4 Transfers	528	236	44.7	828	353	42.6	12,036	**81.2**

Age Groups 30-34	Retrievals	CP (Fresh Cycles)	CP (Fresh Cycles) in %	Cryo Cycle w. Transfer	CP (Cryo Cycles)	CP/ET (Cryo Cycles) in %	Cum. CP	Cumulative Pregnancy Rate in %
1. Transfer	28,646	11,638	40.6	6,190	2,259	36.5	13,897	**39.9**
2. Transfer	9,853	3,668	37.2	10,808	3,584	33.2	21,149	**60.7**
3. Transfer	5,048	1,791	35.5	6,213	1,839	29.6	24,779	**71.1**
4. Transfer	2,391	860	36.0	3,384	981	29.0	26,620	**76.4**
>4 Transfers	1,630	696	42.7	2,204	950	43.1	28,266	**81.1**

Age Groups 35-39	Retrievals	CP (Fresh Cycles)	CP (Fresh Cycles) in %	Cryo Cycle w. Transfer	CP (Cryo Cycles)	CP/ET (Cryo Cycles) in %	Cum. CP	Cumulative Pregnancy Rate in %
1. Transfer	33,461	10,839	32.4	6,305	2,041	32.4	12,880	**32.4**
2. Transfer	13,620	3,956	29.0	9,933	2,800	28.2	19,636	**49.4**
3. Transfer	7,204	2,024	28.1	5,718	1,528	26.7	23,188	**58.3**
4. Transfer	3,241	895	27.6	3,262	805	24.7	24,888	**62.6**
>4 Transfers	2,161	793	36.7	2,283	864	37.8	26,545	**66.8**

Age Groups >= 40	Retrievals	CP (Fresh Cycles)	CP (Fresh Cycles) in %	Cryo Cycle w. Transfer	CP (Cryo Cycles)	CP/ET (Cryo Cycles) in %	Cum. CP	Cumulative Pregnancy Rate in %
1. Transfer	9,782	1,708	17.5	2,209	508	23.0	2,216	**18.5**
2. Transfer	3,940	586	14.9	2,196	409	18.6	3,211	**26.8**
3. Transfer	1,980	323	16.3	1,173	177	15.1	3,711	**31.0**
4. Transfer	1,008	135	13.4	613	82	13.4	3,928	**32.8**
>4 Transfers	620	142	22.9	453	105	23.2	4,175	**34.8**

2017 – 2019 (total)	Retrievals	CP (Fresh Cycles)	CP (Fresh Cycles) in %	Cryo Cycle w. Transfer	CP (Cryo Cycles)	CP/ET (Cryo Cycles) in %	Cum. CP	Cumulative Pregnancy Rate in %
1. Transfer	84,740	29,497	34.8	17,247	5,727	33.2	35,224	**34.5**
2. Transfer	31,655	9,854	31.1	27,773	8,396	30.2	53,474	**52.4**
3. Transfer	16,191	4,869	30.1	15,789	4,357	27.6	62,700	**61.5**
4. Transfer	7,554	2,223	29.4	8,613	2,263	26.3	67,186	**65.9**
>4 Transfers	4,961	1,874	37.8	5,794	2,279	39.3	71,339	**70.0**

Further improvements of these cumulative analysis could be implemented in the annual.
These analysis now reflect the patient's perspective and therefore the patient's journey as exact as possible.

Positive Pregnancy Outcomes 2019

IVF, ICSI – Prospective and Retrospective Data

	Fresh Cycles		Cryo Cycles	
	n	%	n	%
Clinical Pregnancies	17,481	100.0	8,589	100.0
Outcome documented	17,218	98.5	8,451	98.4
Transfer	53,715		28,745	
Births	12,432		5,850	
Life-Birth-Rate/Birth	12,405	99.8	5,828	99.6
Life-Birth-Rate/ET	12,405	23.1	5,828	20.3
SET Pat. <= 35 Y., >= 4 2PN				
Number of Transfers	5,070			
Life-Birth-Rate/ET	1,472	29.0		
Multiple Pregnancies	27	1.8		
DET/TET Pat. <= 35 Y., >= 4 2PN				
Number of Transfers	12,701			
Life-Birth-Rate/ET	4,367	34.4		
Number of Multiple Births	1,314	30.1		

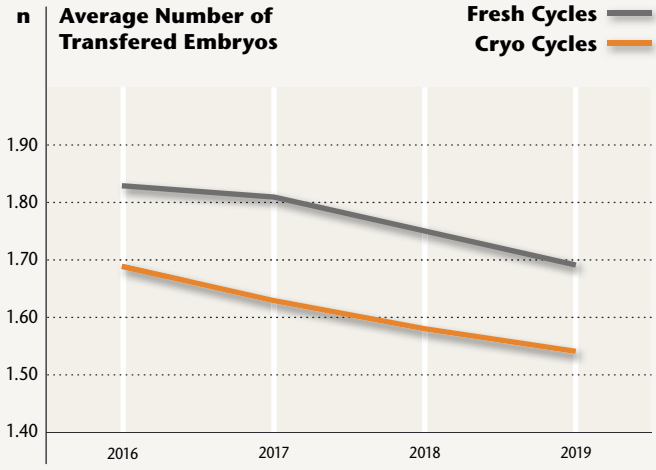
Loss of Pregnancy 2019

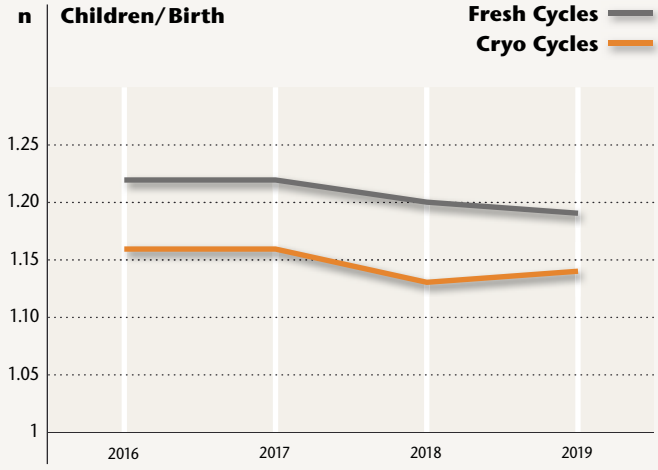
Prospective and Retrospective Data

	Fresh Cycles		Cryo Cycles	
	n	%	n	%
Clinical Pregnancies	17,481	100.0	8,589	100.0
Treatments with Known Cycle Outcome	17,218	98.5	8,451	98.4
Miscarriages	3,560	20.7	2,064	25.8
Among those: Induced Abortions	179	5.0	72	3.5
Stillbirths	27	0.2	22	0.3

Embryos per Transfer[1] and Children per Birth 1997 – 2019

IVF, ICSI – Prospective and Retrospective Data





		1997	[...]	2016	2017	2018	2019
Fresh Cycles	Average Number of Transf. Embryos	2.56	*For values from 1998 to 2015 see www. deutsches-ivf-register.de*	1.83	1.81	1.75	1.69
	Children/Birth	1.29		1.22	1.22	1.20	1.19
Cryo Cycles	Average Number of Transf. Embryos	2.34		1.69	1.63	1.58	1.54
	Children/Birth	1.14		1.16	1.16	1.13	1.14

The number of children originating from multiple pregnancies has almost remained stable within the last decades. But In 2018 and 2019, we are glad to notice a trend to a reduction.

In summary: the number of embryos per transfer is an important factor worth looking at. It is important to allow children resulting from an ART-treatment to come into life as a singleton. Siblings are important and desirable – one at a time!

1) Mean

Oocyte Maturity Depending on Stimulation Protocol 2020

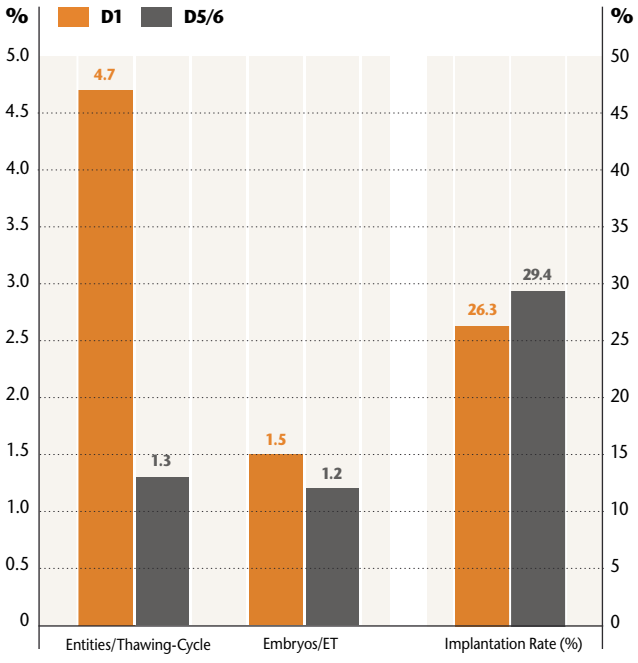
ICSI – Prospective and Retrospective Data

	OPU with Oocytes Maturity known	Mean Age	Oocytes Retrieved	Ooc. per Retrieval	Mature Oocytes	Mature Ooc. per Retrieval	2PN	2PN/ Oocyte Retrieval	Embryos for ET	Gestational Sacs	Implant. Rate (%)
Agonist	7,024	35.7	64,689	**9.2**	47,235	**6.7**	31,469	**4.5**	9,622	2,108	**21.9**
Antagonist	29,654	35.1	288,855	**9.7**	214,085	**7.2**	145,040	**4.9**	38,405	8,471	**22.1**

Cycles and Implantation-Rates with Transfer of Day 5/6 Embryos after Cryopreservation either on Culture Day 1 or Day 5/6 2020

Thawing – Prospective and Retrospective Data

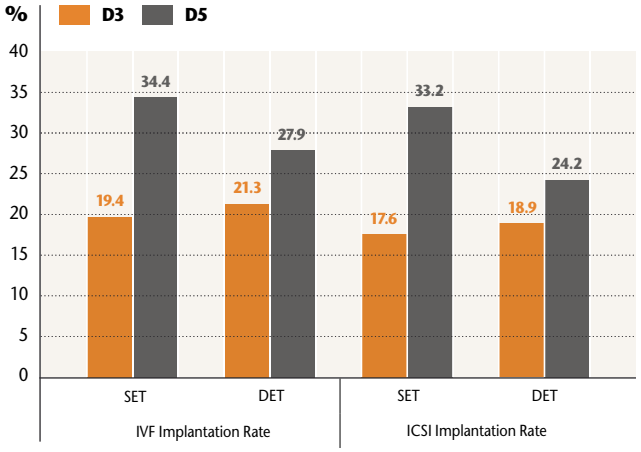
	Freezing on Culture D1	Freezing on Culture D5/6
Thawing-Cycles resulting in ET	7,585	10,022
PN/Embryos Thawed	35,610	13,397
Entities/Thawing-Cycle	**4.7**	**1.3**
Re-Cryo of Embryos	2,227	28
Embryos Available for Transfer	11,502	11,904
Re-Cryo/Cycle	0.3	0.0
Transfer	7,585	10,022
Gestational Sacs (Intrauterine)	3,022	3,494
Embryos/ET	**1.5**	**1.2**
Implantation Rate (%)	**26.3**	**29.4**



Implantation Rates of D3- and D5-Embryos and Number of Embryos per Transfer 2020

IVF, ICSI – Prospective and Retrospective Data

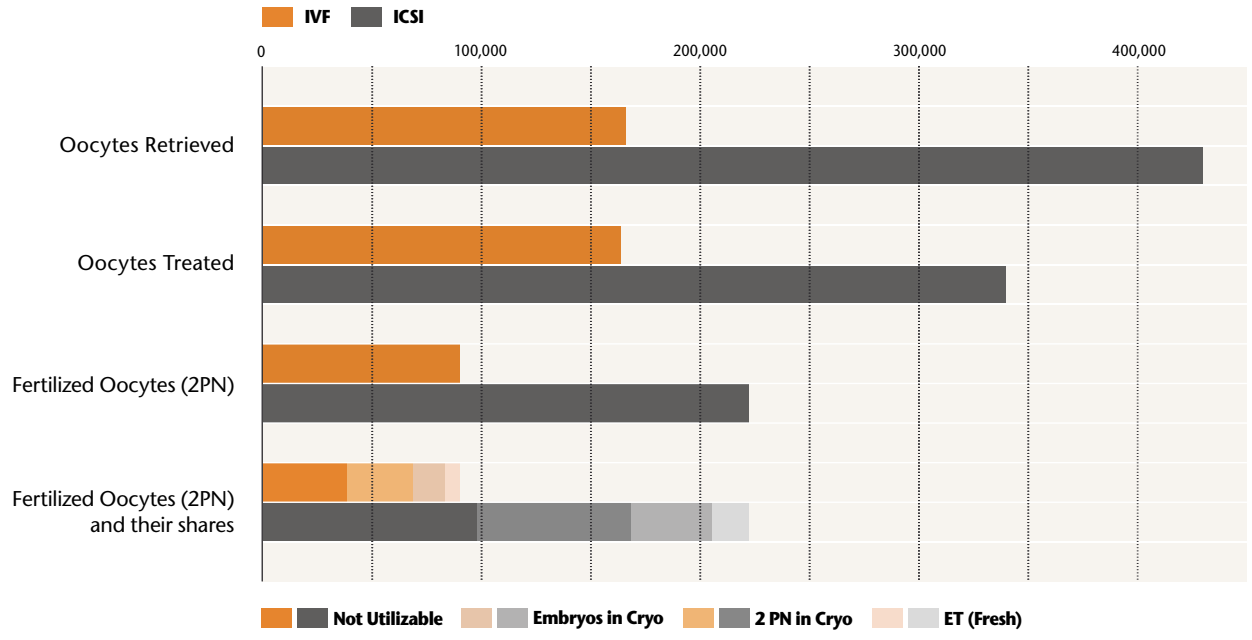
		D3 ImplRate %	D5 ImplRate %
IVF Implantation Rate	**SET**	19.7	34.4
	DET	21.3	27.9
ICSI Implantation Rate	**SET**	17.6	33.2
	DET	18.9	24.2



Evolution of Retrieved Oocytes (IVF or ICSI) 2020

IVF, ICSI – Prospective and Retrospective Data

	IVF	%		ICSI	%	
Oocytes Retrieved	165,637	100.0		429,862	100.0	
Oocytes Treated	163,399	98.6	100.0	339,517	79.0	100.0
Fertilized Oocytes (2PN)	90,123		55.2	221,995		65.4
2PN Cryopreserved	30,071		33.4	70,450		31.7
ET (Fresh)	15,018		16.7	36,832		16.6
Embryos Cryopreserved	6,463		7.2	16,655		7.5



Clinical Pregnancies (CP)/Fresh Transfer as a Function of Embryo Quality 2020

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	240	17.6	806	14.5	1,197	12.9	537	2.6	2,780	11.8
0	2	278	22.3	747	27.5	1,288	21.1	434	11.0	2,474	21.4
0	3	6	16.7	18	11.8	21	15.0	29	3.4	74	9.7
1	0	1,637	38.6	5,235	35.5	6,982	28.0	2,717	14.1	16,571	29.2
1	1	289	34.9	1,017	30.6	1,491	28.5	564	18.0	3,361	27.9
1	2	25	40.0	61	40.0	100	26.8	43	20.0	229	30.6
2	0	2,427	49.1	7,066	45.6	8,737	37.8	2,861	23.3	21,092	39.8
2	1	6	33.3	22	28.6	46	37.8	64	26.6	138	30.9
3	0	18	41.2	113	27.1	30	32.5	267	19.7	628	26.3
Total*		**4,978**	**41.5**	**15,204**	**38.2**	**20,244**	**30.9**	**7,574**	**17.1**	**48,001**	**32.1**

**) 654 transfers could not be allocated.*

Clinical Pregnancies (CP)/Frozen Transfer as a Function of Embryo Quality 2020

Cryo Transfer – Prospective Data

Quality		IVF		ICSI	
ideal	Not Ideal	ET	CP/ET %	ET	CP/ET %
0	1	432	15.5	1,224	14.8
0	2	401	16.3	1,241	19.0
0	3	5	40.0	48	12.5
1	0	3,955	30.2	9,241	31.5
1	1	666	28.3	1,481	27.9
1	2	11	27.3	54	22.2
2	0	2,829	33.4	6,866	33.6
2	1	25	44.0	73	20.5
3	0	71	28.2	234	28.8
Total**		**8,680**	**32.5**	**21,191**	**29.8**

***) 1,014 transfers could not be allocated.*

Children as a Function of Week of Gestation (WoG) and Birth Weight (BW) 2019

Prospective and Retrospective Data

IVF, ICSI, IVF/ICSI

Current WoG	20 - 26		27 - 31		32 - 37		38 - 41		>= 42		Total	% of total
Singletons (n and %)	36	0.4	93	1.0	853	9.5	6,954	77.1	1,087	12.0	**9,023**	**69.4**
Average Birth Weight (g)	630		1,063		2,463		3,332		3,578		**3,245**	
Twins (n and %)	76	2.0	282	7.3	1,860	48.3	1,606	41.7	18	0.5	**3,848**	**29.6**
Average Birth Weight (g)	609		1,196		2,222		2,714		2,930		**2,327**	
Triplets (n and %)	12	9.5	39	31.0	72	57.1	3	2.4	-	-	**126**	**1.0**
Average Birth Weight (g)	638		1,039		1,856		3,293		-		**1,528**	

Percentage of preterm deliveries in singleton pregnancies is 10.9%.
Percentage of preterm deliveries in twin pregnancies is 57.6%.
Percentage of preterm deliveries in triplets pregnancies is 97.6%.

Cryo Transfer

Current WoG	20 - 26		27 - 31		32 - 37		38 - 41		>= 42		Total	% of total
Singletons (n and %)	15	0.3	38	0.8	321	7.0	3,354	73.4	844	18.5	**4,572**	**75.9**
Average Birth Weight (g)	676		1,079		2,530		3,463		3,660		**3,405**	
Twins (n and %)	14	1.0	48	3.5	638	46.2	666	48.3	14	1.0	**1,380**	**22.9**
Average Birth Weight (g)	587		1,220		2,311		2,774		2,854		**2,483**	
Triplets (n and %)	6	8.3	24	33.3	42	58.3	-	-	-	-	**72**	**1.2**
Average Birth Weight (g)	690		1,033		1,736		-		-		**1,433**	

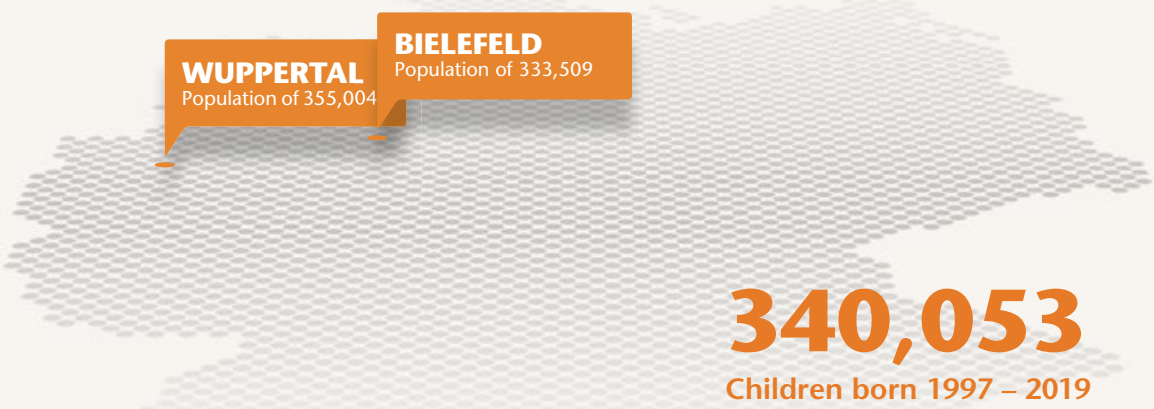
Percentage of preterm deliveries in singleton pregnancies is 8.2%.
Percentage of preterm deliveries in twin pregnancies is 50.7%.
Percentage of preterm deliveries in triplets pregnancies is 100.0%.

Children Born 1997 – 2019

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	14,353	67.2	6,686	31.3	324	1.5	8	0.0	21,371
2018	15,088	69.7	6,332	29.3	222	1.0	0	-	21,642
2019	15,325	71.0	6,002	27.8	261	1.2	0	-	21,588
Total	**222,744**	**65.5**	**109,322**	**32.1**	**7,863**	**2.3**	**124**	**0.0**	**340,053**

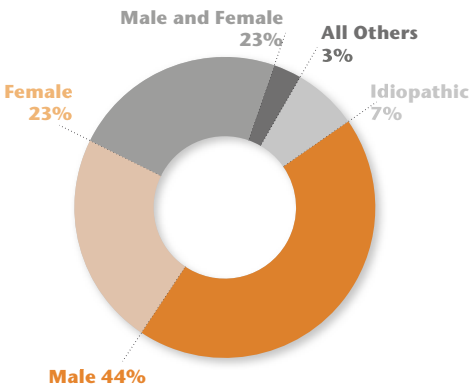


Distribution of Indications 2020

IVF and ICSI – Prospective Data

	Treatments	Transfers		Clin. Preg.	
	n	n	%	n	%
No Information	743	653	87.9	227	34.8
Idiopathic	4,163	3,246	78.0	1,069	32.9
Male	26,265	21,542	82.0	7,108	33.0
Female	13,622	10,751	78.9	3,392	31.6
Male and Female	13,936	10,959	78.6	3,231	29.5
Missing Male Partner	645	537	83.3	145	27.0
Homosexuality	354	313	88.4	121	38.7
Total	**59,728**	**48,001**	**80.4**	**15,293**	**31.9**

Shares of Indications (Cycles) 2020



IVF

Male Factor	Normal		Red. Semen Quality		Unknown		Other**		Total***	
Female Factor	n	%	n	%	n	%	n	%	n	%
Normal	3,132	14.7	639	3.0	91	0.4	473	2.2	4,335	20.3
Tubal Pathology	2,614	12.3	524	2.5	48	0.2	467	2.2	3,653	17.1
Endometriosis	2,068	9.7	440	2.1	45	0.2	469	2.2	3,022	14.2
Hyperandrog./PCO	654	3.1	131	0.6	16	0.1	170	0.8	971	4.6
Ovulatory Dysf.	966	4.5	378	1.8	42	0.2	285	1.3	1,671	7.8
Psychogen. Factors	25	0.1	6	0.0	2	0.0	8	0.0	41	0.2
Age	867	4.1	281	1.3	31	0.1	231	1.1	1,410	6.6
Other*	3,779	17.7	1,075	5.0	94	0.4	1,233	5.8	6,181	29.0
No Information	28	0.1	3	0.0	9	0.0	10	0.0	50	0.2
Total* **	**14,133**	**66.2**	**3,477**	**16.3**	**378**	**1.8**	**3,346**	**15.7**	**21,334**	**100.0**

ICSI

Male Factor	Normal		Red. Semen Quality		Azoospermia		Unknown		Other**		Total***	
Female Factor	n	%	n	%	n	%	n	%	n	%	n	%
Normal	5,165	10.0	8,839	17.1	1,193	2.3	200	0.4	2,211	4.3	17,608	34.1
Tubal Pathology	901	1.7	1,837	3.6	70	0.1	43	0.1	664	1.3	3,515	6.8
Endometriosis	1,122	2.2	2,273	4.4	117	0.2	79	0.2	929	1.8	4,520	8.7
Hyperandrog./PCO	403	0.8	1,045	2.0	94	0.2	36	0.1	356	0.7	1,934	3.7
Ovulatory Dysf.	804	1.6	2,123	4.1	177	0.3	74	0.1	848	1.6	4,026	7.8
Psychogen. Factors	20	0.0	44	0.1	8	0.0	0	0.0	13	0.0	85	0.2
Age	930	1.8	1,706	3.3	229	0.4	73	0.1	692	1.3	3,630	7.0
Other*	5,056	9.8	6,944	13.4	730	1.4	215	0.4	3,276	6.3	16,221	31.4
No Information	73	0.1	29	0.1	5	0.0	6	0.0	16	0.0	129	0.2
Total* **	**14,474**	**28.0**	**24,840**	**48.1**	**2,623**	**5.1**	**726**	**1.4**	**9,005**	**17.4**	**51,668**	**100.0**

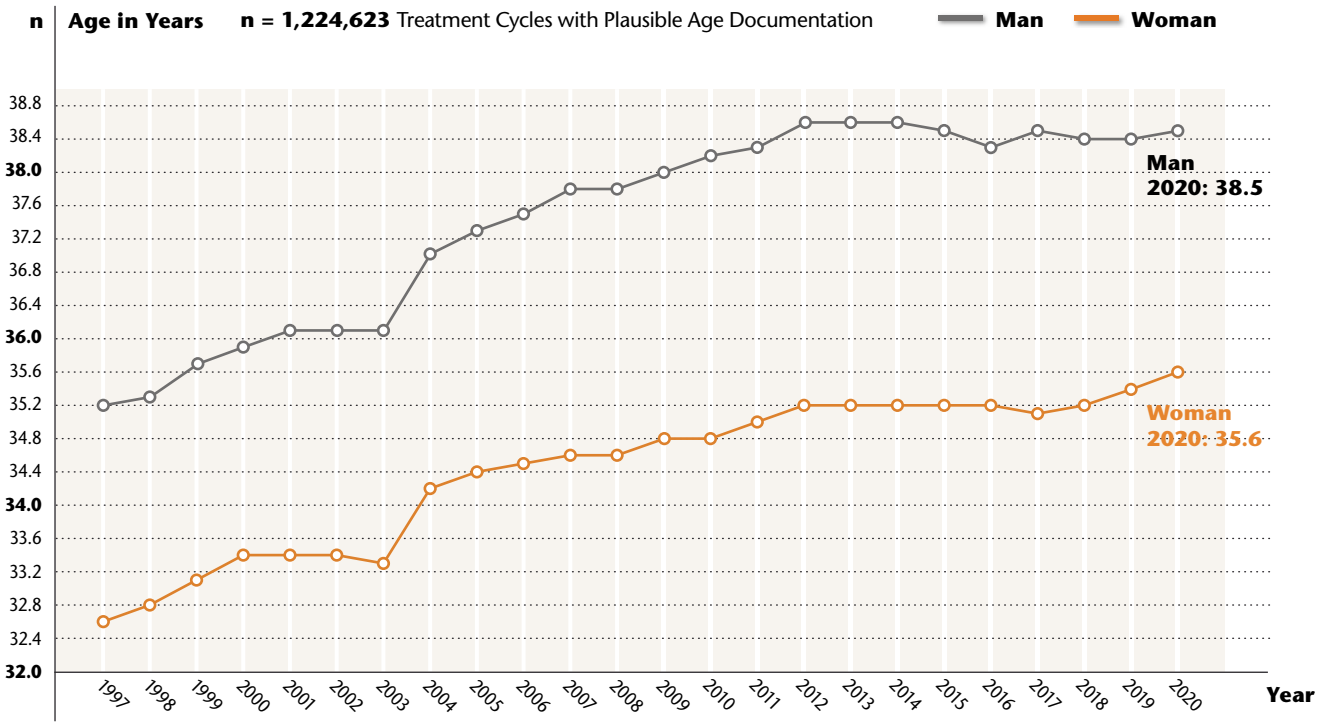
**) This includes the following indications: medical freezing, genetic testing (polar body analysis, trophectoderm biopsy for PGT-A, PGT-SR, PGT-M), homosexuality, diminished ovarian reserve, social freezing, uterine or cervical factor, single women, others).*

***) This includes following indications: anejaculation, azoospermia, medical freezing, preimplantation genetic testing, psychogenic disturbances, failed or bad fertilization rate in conventional ivf-procedure, CBAVD, retrograde ejaculation, urogenital malformation, condition after genital cancer, condition after severe genital infection, condition after vasectomy, others.*

****) Multiple answers per cycle permitted.*

Mean Age for Women and Men 1997 – 2020

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



Social Freezing 2017 – 2020
Indication Social Freezing (Therapy or Patient)

Fresh Cycles – Prospective and Retrospective Data

	2020	2019	2018	2017*
No. of Centers	98	89	84	75
Recorded Cycles	1,565	1,171	969	667
Plausible Cycles	1,448	1,159	963	659
Plausible Cycles %	92.5	99.0	99.4	98.8
Ø-Age of Patients	35.7	35.6	35.5	35.5
OPU	1,324	1,075	899	616
Oocytes Aspirated	1,281	1,043	875	598
Avg. Oocytes Aspirated / Cycle	10.5	10.6	10.3	10.0
Freeze All MII	1,180	975	795	488

Follow up social freezings: up to now, only a few preganancies and births out of former social freezing cycles are recorded.

** Possibility of documentation of social freezing only started in 2017.*

Clinical Pregnancy Rate as a Function of Stimulation 2020

Prospective Data

Total	recFSH	hMG	recFSH a. recLH	recFSH a. hMG	Long-Acting recFSH	hrFSH	Antiestrogen +/- Gonadotropin	Other*	No Inform.	Total
Stimulations (n)	25,285	7,453	16,042	6,003	2,528	767	3,290	3,134	1,848	66,350
Transfers (n)	18,699	4,960	11,638	4,165	1,793	502	1,663	2,458	1,054	46,932
Transfer (%)	74.0	66.6	72.5	69.4	70.9	65.4	50.5	78.4	57.0	70.7
CP (n)	6,587	1,307	3,799	1,121	508	187	332	811	371	15,023
CP/ET (%)	35.2	26.4	32.6	26.9	28.3	37.3	20.0	33.0	35.2	32.0
CP/Stim. (%)	26.1	17.5	23.7	18.7	20.1	24.4	10.1	25.9	20.1	22.6
Ø-Age of Patients	33.9	37.6	35.6	36.5	36.9	33.8	38.5	35.4	35.9	35.4

Short GnRHa	recFSH	hMG	recFSH a, recLH	recFSH a. hMG	Long-Acting recFSH	hrFSH	Antiestrogen +/- Gonadotropin	Other*	No Inform.	Total	Share (%) from total
Stimulations (n)	438	425	551	411	32	50	122	27	44	2,100	3.2
Transfers (n)	297	273	386	208	17	40	32	13	35	1,301	2.8
Transfer (%)	67.8	64.2	70.1	50.6	53.1	80.0	26.2	48.1	79.5	62.0	
CP (n)	73	69	119	50	7	14	6	5	11	354	2.4
CP/ET (%)	24.6	25.3	30.8	24.0	41.2	35.0	18.8	38.5	31.4	27.2	
CP/Stim. (%)	16.7	16.2	21.6	12.2	21.9	28.0	4.9	18.5	25.0	16.9	
Ø-Age of Patients	35.4	38.0	36.9	37.2	37.9	34.0	39.3	37.9	35.9	36.9	

Long GnRHa	recFSH	hMG	recFSH a, recLH	recFSH a. hMG	Long-Acting recFSH	hrFSH	Antiestrogen +/- Gonadotropin	Other*	No Inform.	Total	Share (%) from total
Stimulations (n)	2,738	1,562	2,738	1,479	164	36	22	464	291	9,494	14.3
Transfers (n)	2,137	1,181	2,096	1,132	125	22	9	336	190	7,228	15.4
Transfer (%)	78.0	75.6	76.6	76.5	76.2	61.1	40.9	72.4	65.3	76.1	
CP (n)	770	339	681	323	34	6	1	109	69	2,332	15.5
CP/ET (%)	36.0	28.7	32.5	28.5	27.2	27.3	11.1	32.4	36.3	32.3	
CP/Stim. (%)	28.1	21.7	24.9	21.8	20.7	16.7	4.5	23.5	23.7	24.6	
Ø-Age of Patients	34.0	36.8	35.6	36.1	37.6	33.2	38.4	36.3	36.7	35.5	

GnRH-Antagonists	recFSH	hMG	recFSH a, recLH	recFSH a. hMG	Long-Acting recFSH	hrFSH	Antiestrogen +/- Gonadotropin	Other*	No Inform.	Total	Share (%) from total
Stimulations (n)	20,472	4,682	11,805	3,761	2,131	530	2,155	2,285	1,210	49,031	73.9
Transfers (n)	15,364	3,087	8,675	2,646	1,538	332	1,250	1,819	670	35,381	75.4
Transfer (%)	75.0	65.9	73.5	70.4	72.2	62.6	58.0	79.6	55.4	72.2	
CP (n)	5,472	804	2,859	705	435	121	252	603	241	11,492	76.5
CP/ET (%)	35.6	26.0	33.0	26.6	28.3	36.4	20.2	33.2	36.0	32.5	
CP/Stim. (%)	26.7	17.2	24.2	18.7	20.4	22.8	11.7	26.4	19.9	23.4	
Ø-Age of Patients	33.8	37.8	35.5	36.5	36.8	33.9	38.6	35.5	35.7	35.3	

4,724 stimulations (7.1 %) have been realized without Analoga or Antagonists, resulting in 2,226 transfers and 660 clinical pregnancies (29.1 %).

1,003 stimulations (1.5 %) could not been allocated to a specific protocol, resulting in 756 transfers and 185 clinical pregnancies (24.7 %).

*) *e.g. uFSH, uFSH and hMG etc.*

Ovarian Hyperstimulation Syndrome (OHSS) as a Function of Stimulation Protocol and Age Cohort 2020

IVF, ICSI, IVF/ICSI – Prospective Data

	Stimulations Started	%	Oocytes Retrieved	OHSS III (WHO)	OHSS III/Cycles %
Short GnRHa	**2,100**	**3.2**	**7.1**	**1**	**0.0**
< = 29 Years	130		10.0	0	0.0
30 – 34 Years	449		9.0	0	0.0
35 – 39 Years	930		6.6	0	0.0
> = 40 Years	591		5.5	1	0.2
Long GnRHa	**9,494**	**14.5**	**9.3**	**50**	**0.5**
< = 29 Years	840		11.8	15	1.8
30 – 34 Years	2,905		10.5	18	0.6
35 – 39 Years	4,271		8.7	17	0.4
> = 40 Years	1,478		7.0	0	0.0
GnRHa-Antagonists	**49,031**	**75.0**	**9.5**	**133**	**0.3**
< = 29 Years	5,483		12.2	34	0.6
30 – 34 Years	15,389		11.1	62	0.4
35 – 39 Years	20,165		8.9	33	0.2
> = 40 Years	7,994		6.2	4	0.1
No Analoga / no Antagonists	**4,722**	**7.2**	**6.6**	**3**	**0.1**
< = 29 Years	395		9.8	0	0.0
30 – 34 Years	1,222		9.2	2	0.2
35 – 39 Years	2,010		6.3	1	0.0
> = 40 Years	1,095		3.8	0	0.0
Total*	**65,347**	**100**	**9.2**	**187**	**0.3**

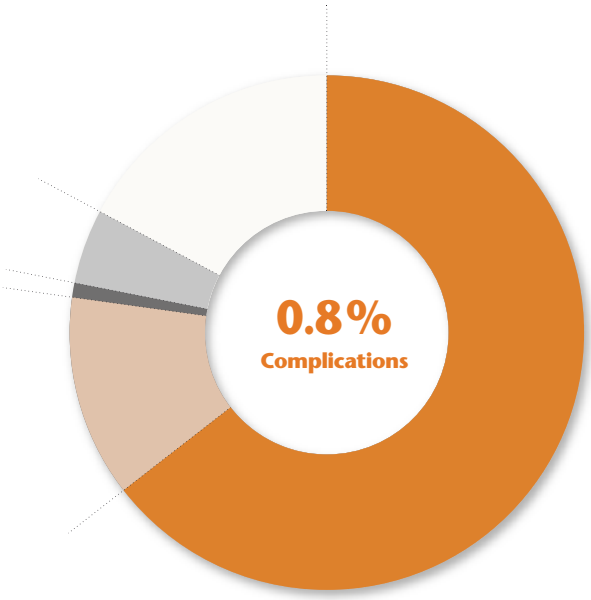
**) in 1,003 cycles, the protocol could not be reliably determinated*

Complications as a Function of Ovum Pick-up (OPU) 2020

IVF, ICSI, IVF/ICSI, Prospective Data

Total OPU´s	**62,199**	**100.0%**
No Information	539	0.9%
No Complications	61,212	98.4%
Complications	**448**	**0.8%**

Complications	n	%
Vaginal Bleeding	289	64.5
Intraabdom. Bleeding	57	12.7
Intestinal Tract Injury	4	0.9
Peritonitis	21	4.7
Other	77	17.2
Total	**448**	**100.0**

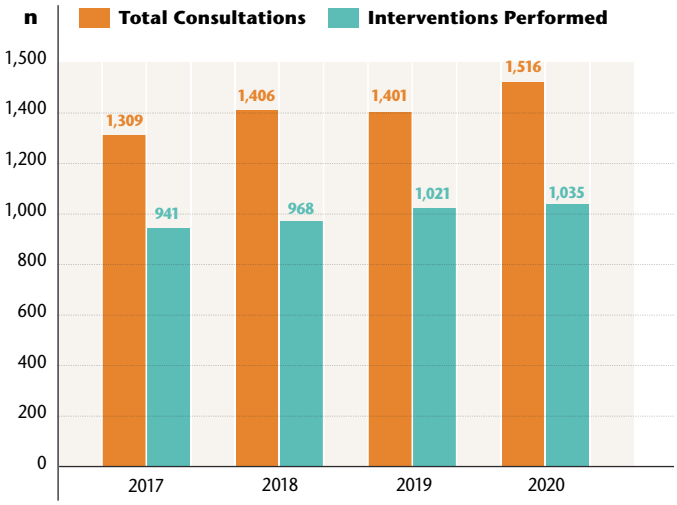


FertiPROTEKT
Netzwerk für fertilitätsprotektive Maßnahmen

The *Ferti*PROTEKT Network e.V. is pleased to present again the data from all documented consultations and therapies in the scope of medically indicated fertility preservation from the recent and the previous years. To give an impression of the excellent activities of the network the following tables and figures list important individual entities and therapies for fertility preservation.

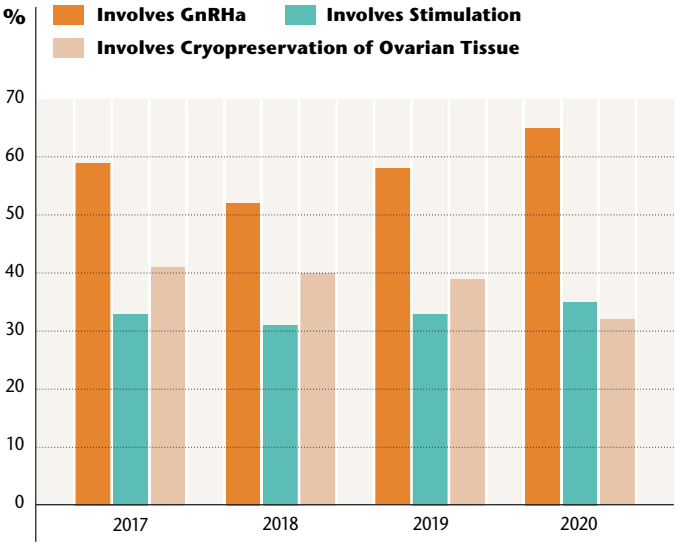
In the coming years, it remains to be seen whether the implementation of the new law regarding the assumption of costs for fertility preservation will have an effect on the amount and type of therapies carried out; this taking also into account that GnRH agonists are not and cryopreservation of germ cells/tissue is somewhat limited covered. Hope remains that many women will get the opportunity for counselling.

Consultations and Interventions – *Ferti*PROTEKT Network e.V.



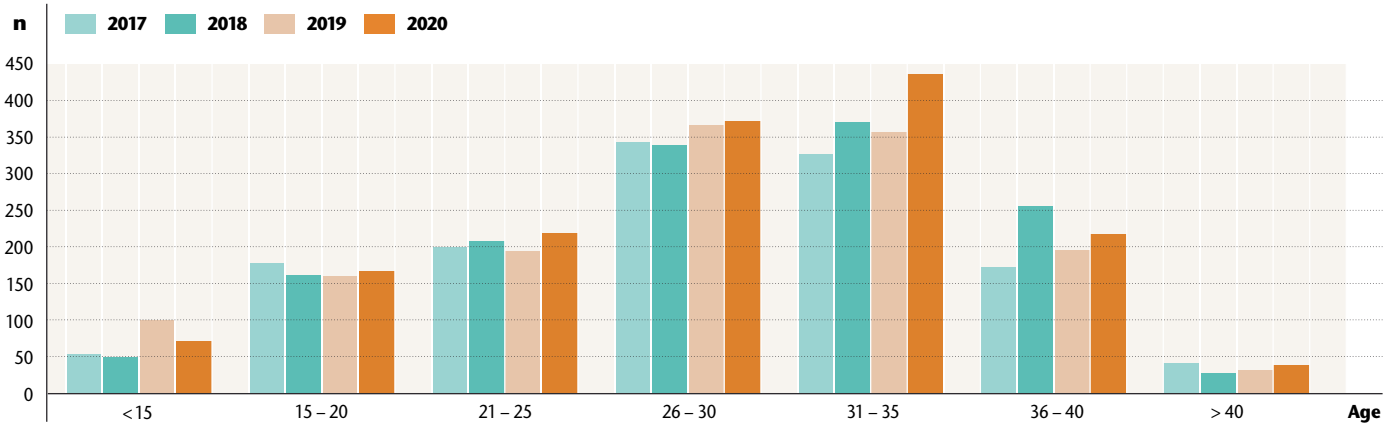
The number of consultations documented in the *Ferti*PROTEKT Network e.V. rose again in 2020 compared to previous years. Interventions have also increased compared to previous years, so that a very positive upward trend can be seen here. While the ovarian stimulations performed remained stable,

Frequency Distribution of Fertility-Protective Interventions



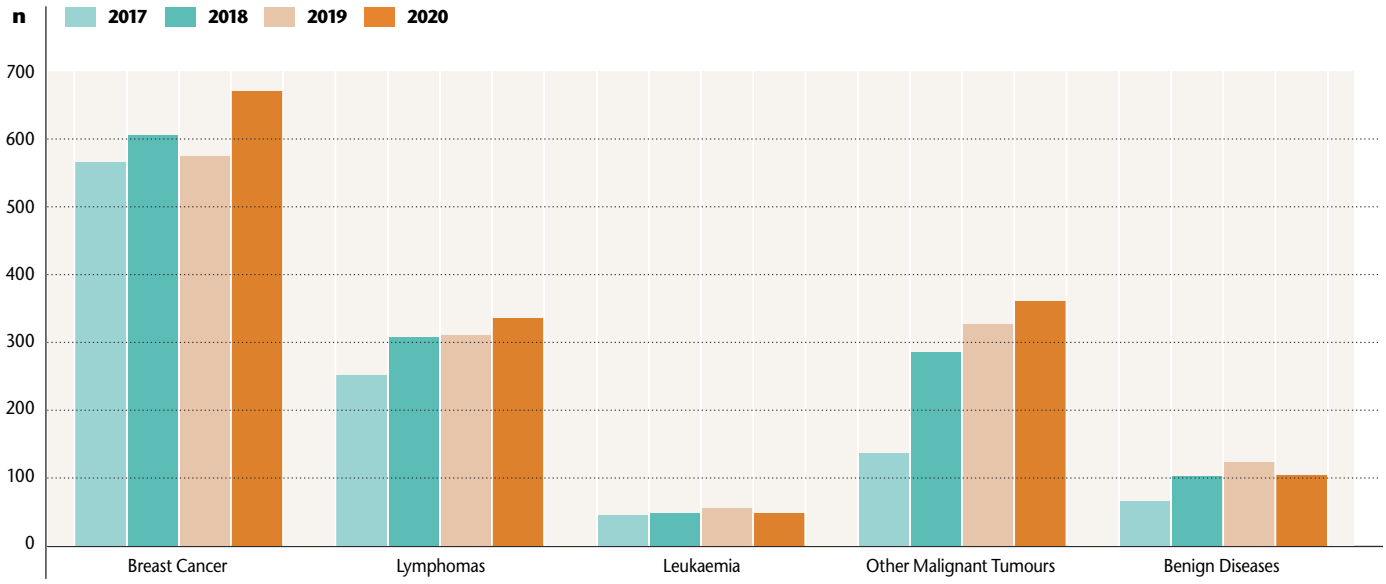
GnRH agonists in particular were used significantly more frequently. However, a downward trend in the cryopreservation of ovarian tissue has been observed in recent years.

Age-Distribution during Consultation – *Ferti*PROTEKT Network e.V.



This year, we see a significant increase of consultations especially in women aged 31-35 years. Presumably, the increasing number of initial consultations of women with breast cancer could explain this observation. The remaining age groups are roughly at the level of last year. The total number of consultations of "children" under the age of 15 has evened off at around 70.

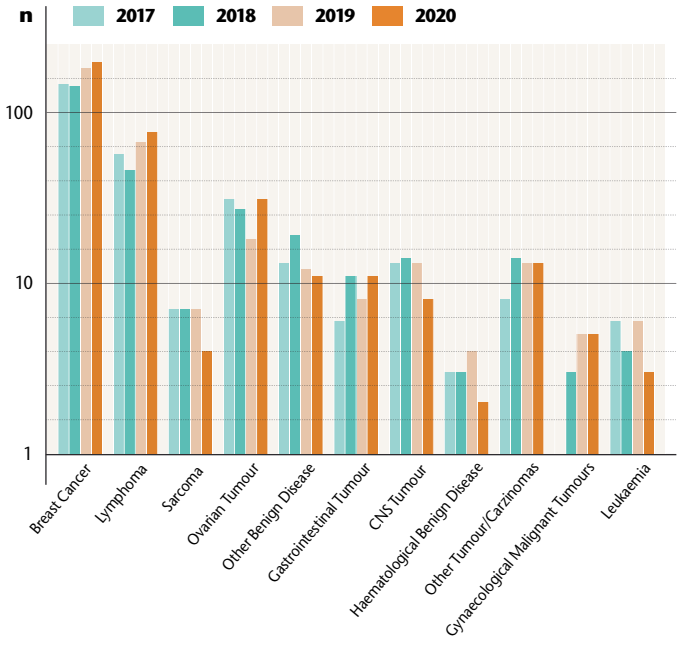
Diagnosis at Initial Consultation



In line with the increased number of initial presentations, all groups of oncological diseases show slightly higher patient numbers in the year 2020. Only the group of breast cancer patients shows a disproportionate increase compared to the previous years. Patients with benign diseases, on the other hand, were less frequently counselled in that year.

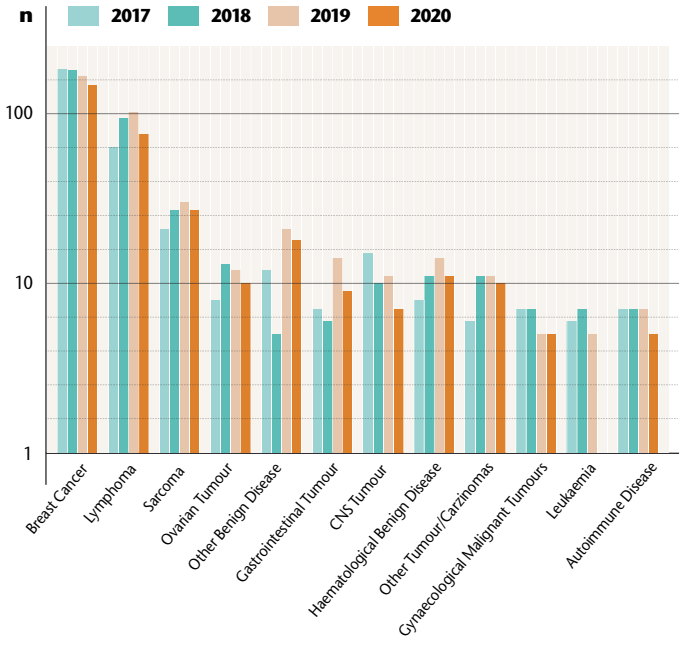
Underlying Disease at Time of Ovarian Stimulation

Logarithmic Scale



Underlying Disease at Time of Ovarian Tissue Cryopreservation

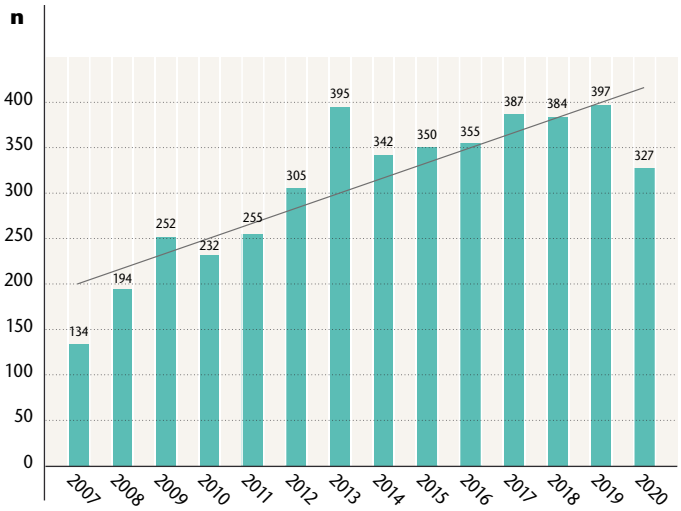
Logarithmic Scale



Considering performed therapies in relation to the underlying disease, the overall rate of ovarian tissue cryopreservation is lower, with only one case of tissue cryopreservation in case of leukaemia. Additionally, fewer ovarian stimulations have been done in leukaemia patients while counselling a constant number of these patients; so the total number of interventions in this entity decreased markedly.

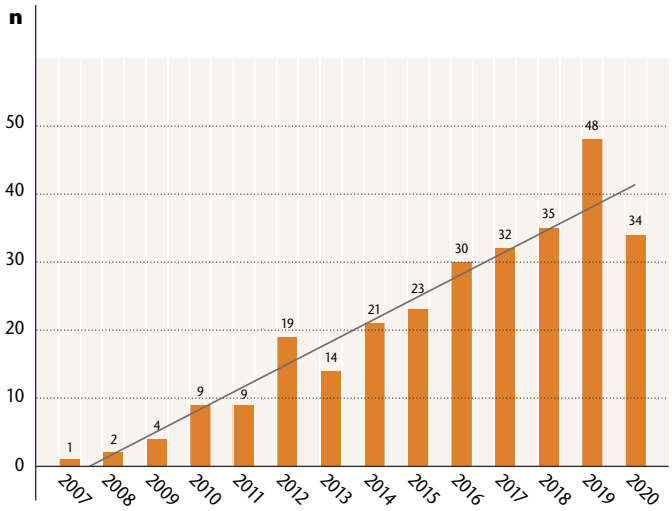
Number of Ovarian Tissue Cryopreservations for Later Transplantation

per Year from 2007–2020, n=4,309



Number of Ovarian Tissue Transplantations

per Year from 2007–2020, n=281

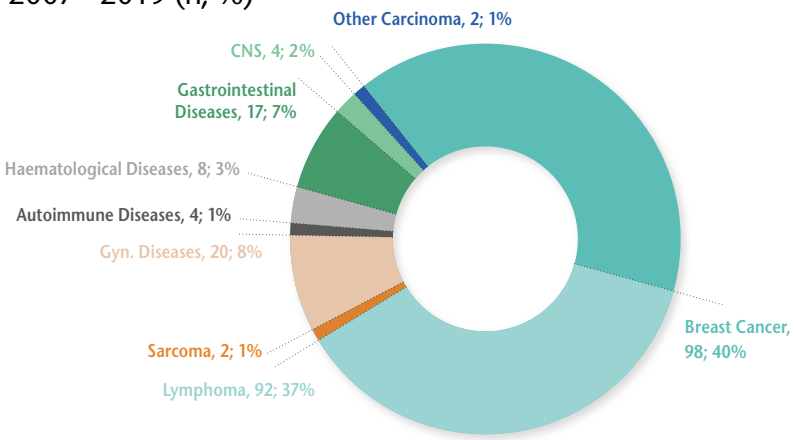


Overall Outcome of Ovarian Tissue Transplantations from 2007–2019

The data represent the results of 27 university and non-university *Ferti*PROTEKT centres (Germany: 20, Switzerland: 4, Austria: 3) since 2007.

In the year 2019, 247 ovarian tissue transplantations have been performed in 200 patients. The current usage rate is 6.5 %.

Underlying Diseases of Patients who have Undergone a Ovarian Tissue Transplantation, 2007–2019 (n; %)



Characteristics of Patients

	Total Number of Transplantations Performed 2007-2019 (n)	Total Number of Patients Undergoing at least 1 Transplantation (n)	Mean Age at Time of Cryopreservation in Years (min-max)	Mean Age at Time of Transplantation in Years (min-max)	Mean Storage Length of Cryopreserved Ovarian Tissue in Years (min-max)
Total Transplantations	247	200	31.1 (17-44)	35.9 (23-47)	4.9 (1-16)
Transplantations with Ovarian Tissue after Overnight Transportation Before Cryopreservation	127	101	31.4 (20-44)	35.8 (25-47)	4.5 (0-11)

Restitution of Endocrine Activity after Transplantation of Cryopreserved Ovarian Tissue

	Endocrine Activity after Transplantation in Relation to Total Number of Transplantations (%)	Endocrine Activity after Transplantation in Relation to Total Number of Patients Transplanted (%)	Patients Without POI* Before Transplantation in Relation to Total Number of Patients Transplanted (%)
Total Transplantations	181/247 (73.3%)	143/200 (71.5%)	26/200 (13.0%)
Transplantations with Ovarian Tissue after Overnight Transportation Before Cryopreservation	107/127 (84.3%)	83/101 (82.2%)	6/101 (5.9%)

*) *POI – Premature Ovarian Failure*

Pregnancies after Transplantation of Cryopreserved Ovarian Tissue

	Pregnancies in Relation to Total Number of Transplantations (%)	Pregnancies in Relation to Total Number of Patients Transplanted (%)	Spontaneous Conceptions in Relation to Total Number of Pregnancies (%)	Conceptions Using ART** in Relation to Total Number of Pregnancies (%)
Total Transplantations	71/247 (28.8%)	56/200 (28.0%)	46/71 (64.8%)	25/71 (35.2%)
Transplantations with Ovarian Tissue after Overnight Transportation Before Cryopreservation	39/127 (33.1%)	33/101 (32.7%)	24/39 (61.5%)	15/39 (38.5%)

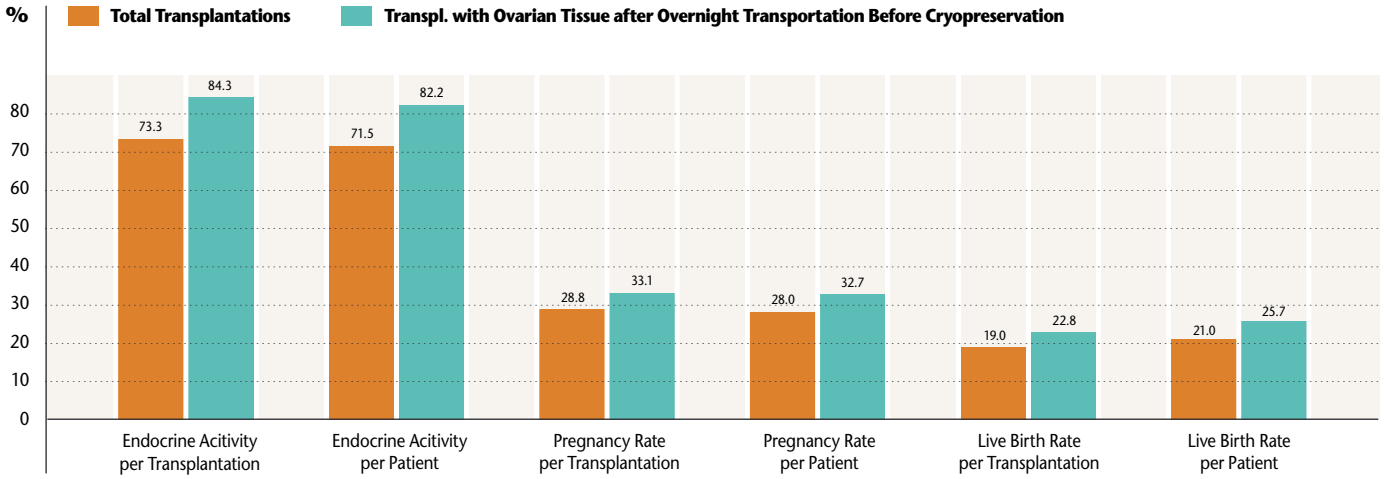
***) ART – Assisted Reproductive Techniques*

Live Births after Transplantation of Cryopreserved Ovarian Tissue

	Live Births in Relation to Total Number of Transplantations (%)	Live Births in Relation to Total Number of Patients Transplanted (%)	Ongoing Pregnancies in Relation to Total Number of Pregnancies (%)
Total Transplantations	47/247 (19.0%)	42/200 (21.0%)	5/56 (8.9%)
Transplantations with Ovarian Tissue after Overnight Transportation Before Cryopreservation	29/127 (22.8%)	26/101 (25.7%)	3/39 (7.7%)

Graphical Presentation of Success Rates ***

FertiPROTEKT Netzwerk für fertilitätsprotektive Maßnahmen



****) The success rates (in %) were calculated without taking into account the age, the site of transplantation, the number of transplants, the underlying disease, the ovarian reserve (the latter determined by serum AMH level before cryopreservation).*

Graphical Presentation of Success Rates in Different Age Groups (%)

Age Grouping of Patients was done at the Time of Cryopreservation

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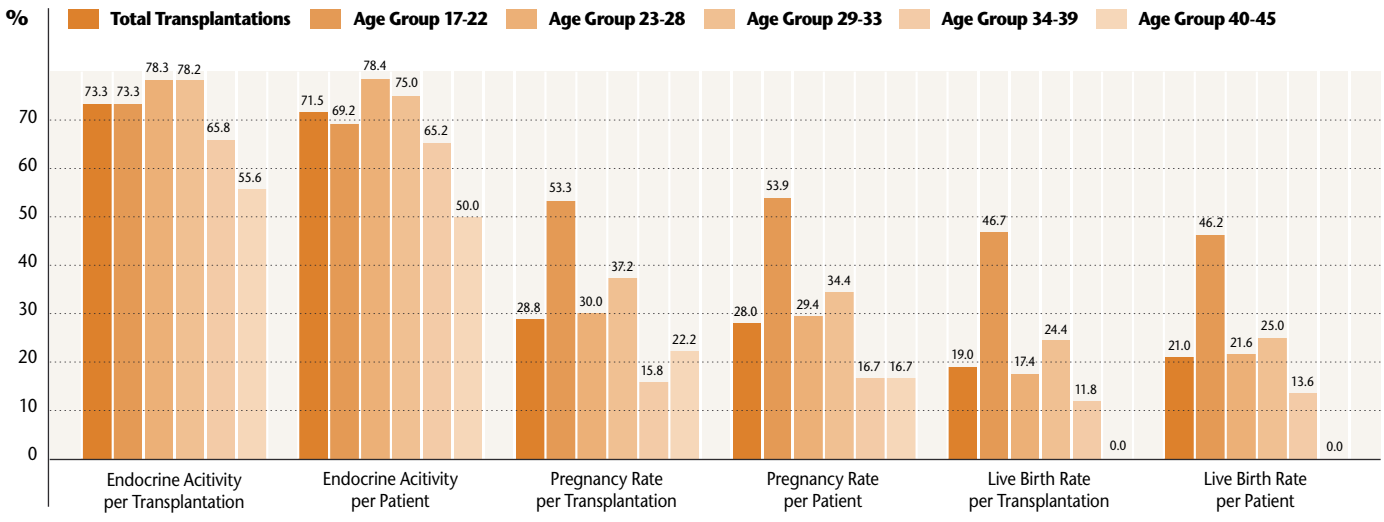

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