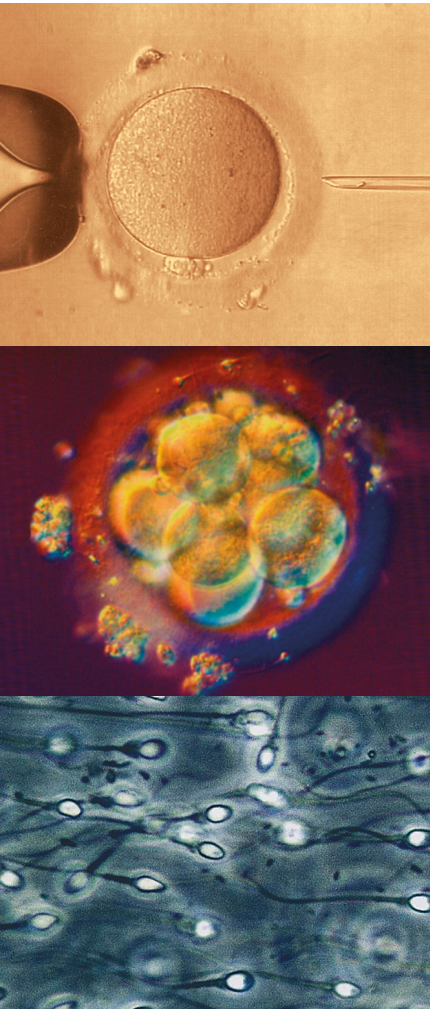


Journal of

# Reproductive Medicine **No. 5**<sup>2022</sup> and Endocrinology

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Andrology • Embryology & Molecular Biology • Endocrinology • Ethics & Law • Genetics  
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## **D-I-R Annual 2021 – The German IVF-Registry**

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

## **Master in Endometriosis: What is needed to become an expert?**

H. Krentel, S. D. Schaefer, D. Salehin, J. Keckstein, E. Oral, C. Exacoustos, S. P. Renner,  
A. Bokor, H. Roman, H. Tinneberg<sup>1</sup>, M. Sillem, K. W. Schweppe, K. Bühler, L. Kiesel,  
R. L. De Wilde

## **Gesellschaftsmitteilungen**

**Offizielles Organ:** AGRBM, BRZ, DVR, DGA, DGGEF, DGRM, D-I-R, OEGRM, SRBM/DGE

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# Preface

## D·I·R Annual 2021 – The German IVF-Registry

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

*Ladies and gentlemen, dear colleagues, dear D·I·R people!*

We are particularly pleased to be able to hand over the 2021 yearbook to you in this year of anniversaries! After Prof. Frank Lehmann laid the foundation for nationwide data collection in 1982, we began using digital data collection in 1996. 40 years of data collection, 25 years of digital data collection – regardless of the medium used: What has remained is the inherently medically motivated desire for documentation, exchange, the opportunity to learn from one another, to compare oneself and the methods used with the aim of continuously improving the quality of reproductive medicine in Germany.

### ■ Background of this yearbook

The D·I·R currently has 140 member centers. This yearbook contains information on the 2020 treatment cycles (cycle outcomes and births) and the 2021 treatment cycles (cycle outcomes) from all 140 centers. The evaluations were carried out with the status of the database on May 24<sup>th</sup>, 2022.

In the preparation of this yearbook, we, the professionals and the volunteers, were again reminded of the complexity of register work. We are aware that the quality of the register not only depends on the diligence of data collection in the centers, but also on the IT structures of the acquisition software, the ARTbox® interface and the data analysis tool. Milestones were reached here, all center exports, regardless of the recording software used, could be integrated into the evaluation.

### ■ This yearbook

As usual we have updated the standard evaluations for the following years – small changes are due to clarity and the space available. This yearbook is another premiere! The yearbook 2020 was created in parallel with the old evaluation system

AND the parallel establishment of evaluation algorithms of our new evaluation software QLIK®. For the 2021 yearbook, we all benefited from the work invested in the IT structure through increased efficiency. Another innovation is that the 2021 yearbook, including the editorial texts and the main topics, is available to an international audience in English. It is published in the *Journal of Reproductive Medicine and Endocrinology*.

This year's main topic deals with the different results of the single embryo transfer (SET) and double embryo transfer (DET) depending on the cultivation period.

We have reached the next magic number in our treasury of data with 364,000 children that have been born and documented (between 1997–2020) in the D·I·R.

This number corresponds to the population of large cities such as Bochum or Wuppertal.

### ■ FertiPROTEKT and D·I·R

In this yearbook, the cooperation of the FertiPROTEKT network comes into play again. We are pleased that these evaluations have become part of our yearbook! This cooperation is a pleasant example of the synergetic effects of respectful cooperation between colleagues who work together in solidarity. In July 2021, methods of preserving fertility were included in the reimbursement of statutory health insurance companies. Compared to the number of treatment cycles with the FertiPROTEKT indication, there had only been a slight increase from 580 in 2020 to 740 cycles in 2021.

### ■ Privacy Protection Regulation

The enforcement of the Privacy Protection Regulation in May 2018 caused considerable additional work for the centers. At the request of the D·I·R, the employees in the centers obtained consent from patient couples for the transmission of pseudonymised treatment data records.

For the year 2021, the register contains 91% pseudonymised, 8% anonymous and 1% subsequently revoked data records.

More information on this topic: For the transfer of anonymous data records, only the information to the patient is necessary. The consent of both partners is required for the transfer of pseudonymized data sets. No consent is required if physicians are obliged to report based on a state-specific health care professions law.

This results in a renewed request for the transfer of pseudonymized data sets: As physicians working in reproductive medicine ourselves, we know how much effort it takes to obtain patient consent. The necessary patient information is time-consuming. Despite that: Only large pseudonymized data sets enable patient-related evaluations of cumulative pregnancy rates, of FertiPROTEKT and in the future also of PGD, even if a cross-center evaluation is no longer possible due to the omission of the National Patient ID.

At this point: Thank you for your effort, your commitment in talking to the patients, your organizational and documentation performance in the legally compliant implementation of the Privacy Protection Regulation. This is for the benefit of the quality of our register!

### ■ Politics on a small scale/ Reimbursement ART/Reimbursement FertiPROTEKT

Despite the statements made in the 2021–2025 coalition agreement, nothing has changed in the bureaucratic three-pillar funding program (statutory health insurance benefits, statutory benefits of individual health insurance companies, state/federal funds in individual states). The couple's place of residence still determines the amount of their own costs for reproductive medical treatment. It remains our demand for the resumption of 100% reimbursement as the right to four ART treatment cycles. A 100% reimbursement within the framework of social legislation

would be a just social legislative decision that pays the respect it deserves for the financial, emotional and temporal commitment of couples who face the responsibility of wanting to become parents.

The specifications for the implementation of the nationwide legal decision on the assumption of costs for fertility protection measures have been changed three times so far and are still ambiguous. We have the Federal Association of Reproductive Medicine Centers (BRZ) to thank for maintaining contact with the decision-makers. We hope that this will have the greatest possible positive impact on the patients concerned.

### ■ Politics at large

The call for a reproductive medicine law to replace the 1990 Embryo Protection Act does not sound loud enough. With a broader interpretation of the Embryo Protection Act, in Germany known as “Deutscher Mittelweg (DMW)”, it has been shown in recent years that blastocyst culture and single embryo transfer produce excellent quality of results and low multiple pregnancy rates possible in both fresh and cryo cycles. Everyone is waiting for the implementation of the changes in the field of reproductive medicine announced in the coalition agreement 2021–2025 to be enshrined in law. Improvement of quality would be, among other things, the legalization of **elective** single embryo transfers, legalization of embryo donation in the pronuclear stage and oocyte donation, 100% assumption of costs within the framework of statutory health insurance companies.

### ■ Main topics of the past and the current yearbook

In recent years, the topic “Less is more” has been discussed as a request for increased implementation of single embryo transfer in prognostically good treatment

cycles to avoid multiple pregnancies. The topic was covered with D-I-R numbers. For the year 2020 there is again a further decrease in the number of children born as multiples. The pregnancy and birth rates after single embryo transfer are impressive both in the fresh and in the thawing cycle if surplus embryos were previously frozen. This is the disposition to support. With the publication of the figures, we also want to encourage the centers to pursue the cultivation strategy with a broader interpretation of the Embryo Protection Act (DMW). In addition, we want to demonstrate the superiority of these procedures to the legislator.

It is very important to the D-I-R board and board of trustees to continue the value discussion about the decisive criterion of good reproductive medicine “good pregnancy rates, low rates of multiple births” in the coming years.

### ■ Thanks

We would like to thank everyone who has contributed to the realization of this yearbook:

We thank the D-I-R data management and with it Markus Kimmel. He has taken on the challenge of using the evaluation software QLIK®. Together with the service providers Critex and QuinniSoft he questioned and uncovered pitfalls in the complex IT structure.

Last but not least: With the help of the service provider Transact, he developed, checked and applied the evaluation algorithms for the evaluation using the QLIK® software. This year we were able to harvest the fruits of this work. This applies not only to the yearbook but also to the centers. Center-specific evaluations in the form of KPIs and center profiles in a national comparison have become more stringent, efficient and flexible thanks to the QLIK® program used by Markus Kimmel.

The effort was worth it: Through good organization and stringent data processing, he provided us with valid evaluation results for this yearbook. With infinite patience, he “drove” everyone involved in work. He developed the tools for creating the center-specific KPIs and center profiles. He has thus developed a tool that enables the individual D-I-R member centers to receive their center-specific data on a quarterly basis.

We would like to thank our designer Soo-Hee Kim not only for the beautiful layout, but especially for her patience and dedication. This year, too, it was unavoidable that she had to incorporate our many change requests at the last minute before going to press.

We would like to thank the yearbook partners who have made their financial contribution through generous support, so that we can once again hold this yearbook in our hands.

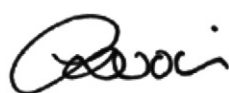
We would like to thank the board of trustees and especially the biologist and embryologist Verona Blumenauer.

### Lastly, the most important thing:

Our special thanks go to the centers for the conscientious collection and forwarding the data. We would also like the centers for their generous financial commitment, without further developments and improvements to the data base and data analysis would not be possible.

With the creation of this yearbook and the necessary (preliminary) work, we experienced a great acceptance of the German IVF Register.

*Happy about that and thank you  
Your D-I-R Board*



Dr. med. Ute Czeromin  
Chairwoman



Prof. Dr. med. Jan-Steffen Krüssel



Dr. med. Andreas Tandler-Schneider



## Responsible for this Edition

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# In a Nutshell – 2020's and 2021's Findings of the German IVF-Registry



- 140 centers of the German IVF-Registry exported 125,542 plausible cycles.
- A subset of 68.5% of the cycles were about fresh cycles, 31.5% concerned with cryo cycles. The proportion of cryo cycles thus continued to rise.
- The pregnancy rate per transfer in fresh cycles was 31.8%, whereas the pregnancy rate per transfer in cryo cycles was 30.4%.
- The increasing pregnancy rates in cryo cycles are remarkable, even though the single embryo transfer has been performed more often. In 2017 the pregnancy rate per cryo transfer was 26.2%, in 2021 it was 30.4%.
- 2020, the documented birth rate per embryo transfer was 23.5% in fresh cycles and 21.1% in cryo cycles.
- The age dependence of pregnancy and birth rate is noteworthy. While women in the 30-34 age group have a 39.4% chance of pregnancy and a 30.0% birth rate per embryo transfer, in the 41-43 age group the pregnancy rates per transfer drop to 17.8% and the birth rate to 8.2%. See example IVF.
- The continuous decrease in multiple births is encouraging. Between 2017 and 2020, the rate of multiple births reduced by 5-6 percentage points in both fresh and cryo cycles. 2020, multiple births added up to 16.6% in fresh cycle and 11.0% in cryo cycles. 2017, multiple births came to 20.0% in fresh cycle and 15.0% in cryo cycles.
- The single embryo transfer has been increasingly used in good prognosis patients. The pregnancy rates are indeed slightly lower in these cases, but the multiple pregnancy rates rise dramatically in this patient group, when double embryo transfer would be performed. Multiple pregnancies imply an additive hazard of pregnancy induced complications and premature births.
- The cumulative birth rate resulting from multiple fresh and cryo cycles following a single oocyte retrieval is considerable when cryopreservation was available and used. After just one fresh transfer and two cryo transfers half of the couples can look forward to having a child, even though only one fresh treatment cycle has been carried out.
- IVF and ICSI with donor sperm are increasing significantly (1,129 treatments in 2018, 1,404 treatments in 2019, 1,861 treatments in 2020).
- 363,940 children were born after in vitro fertilization cycles. This is comparable to the population of a large city like Bochum. In 2020, the proportion of premature births (birth before the 37th week of pregnancy) was 18% for singletons, 83% for twins and 100% for triplets.
- Reproductive medicine techniques are safe – the risk of ovarian overstimulation as a result of hormone therapy was 0.5%, egg retrieval complications such as vaginal bleeding was 0.8%.

## **Our recommendations if pregnancy does not occur:**

Do not be afraid! Get advice from a fertility center and then decide. Choose a center that is a member of the quality-conscious D-I-R.

Don't wait too long, the chances of successful treatment depend on age.

Take advantage of the opportunities offered by single embryo transfer, blastocyst culture and cryopreservation – not a single fertilized oocyte is lost and after thawing you have another chance with very little effort, also for a second child!

# Brief overview of the most important results for the public

You will find a brief overview of the most important results on this and the following three pages.

The first evaluation shows the results of the treatments carried out in the previous year, 2020 until birth.

The second evaluation shows our results' dependence on the woman's age. This relates to pregnancy, birth, and miscarriage rates.

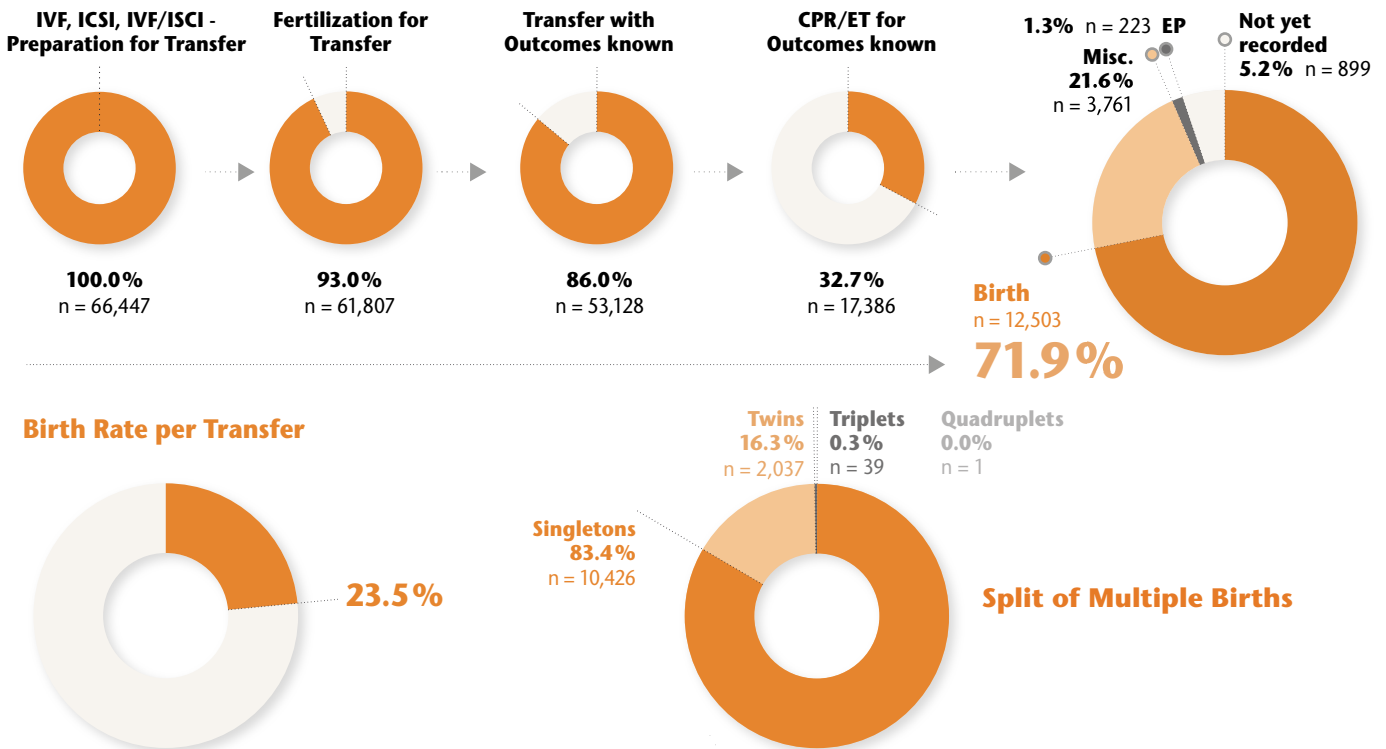
Regarding the third evaluation, you will find the comparison between the transfer of one embryo (SET) and the transfer of

two embryos (DET). A distinction is made here between the fresh cycles after oocyte puncture and the thawing cycles.

The fourth and final evaluation cumulatively shows the pregnancy rate from 2018 to 2020, ranging from 34.4% from the first transfer to over 70%, with more than four transfers. This means it is possible to achieve a pregnancy in seven out of ten couples wishing to have a child.

## Summary D-I-R Statistic in Brief – CoD May 24th, 2022

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



In 2020, 66,447 fresh cycles were performed in Germany in which an embryo transfer was planned in the same cycle using in vitro fertilisation and/or microinjection. Fertilisation occurred in 93% and a transfer with a known cycle outcome in 86%.

The pregnancy rate per embryo transfer was 32.7%, the same as in the previous year.

On the other hand, the birth rate was 23.5% per embryo transfer and increased slightly despite fewer embryos being transferred.

Overall, twins were born in 16.3% and triplets in only 0.3%.

Thus, the proportion of singleton births increased to 83.4% (the previous year 81.7%). This phenomenon is primarily related to the increase in single embryo transfers. Worldwide, the proportion of multiple births is decreasing, and the number of single embryo transfers is increasing.

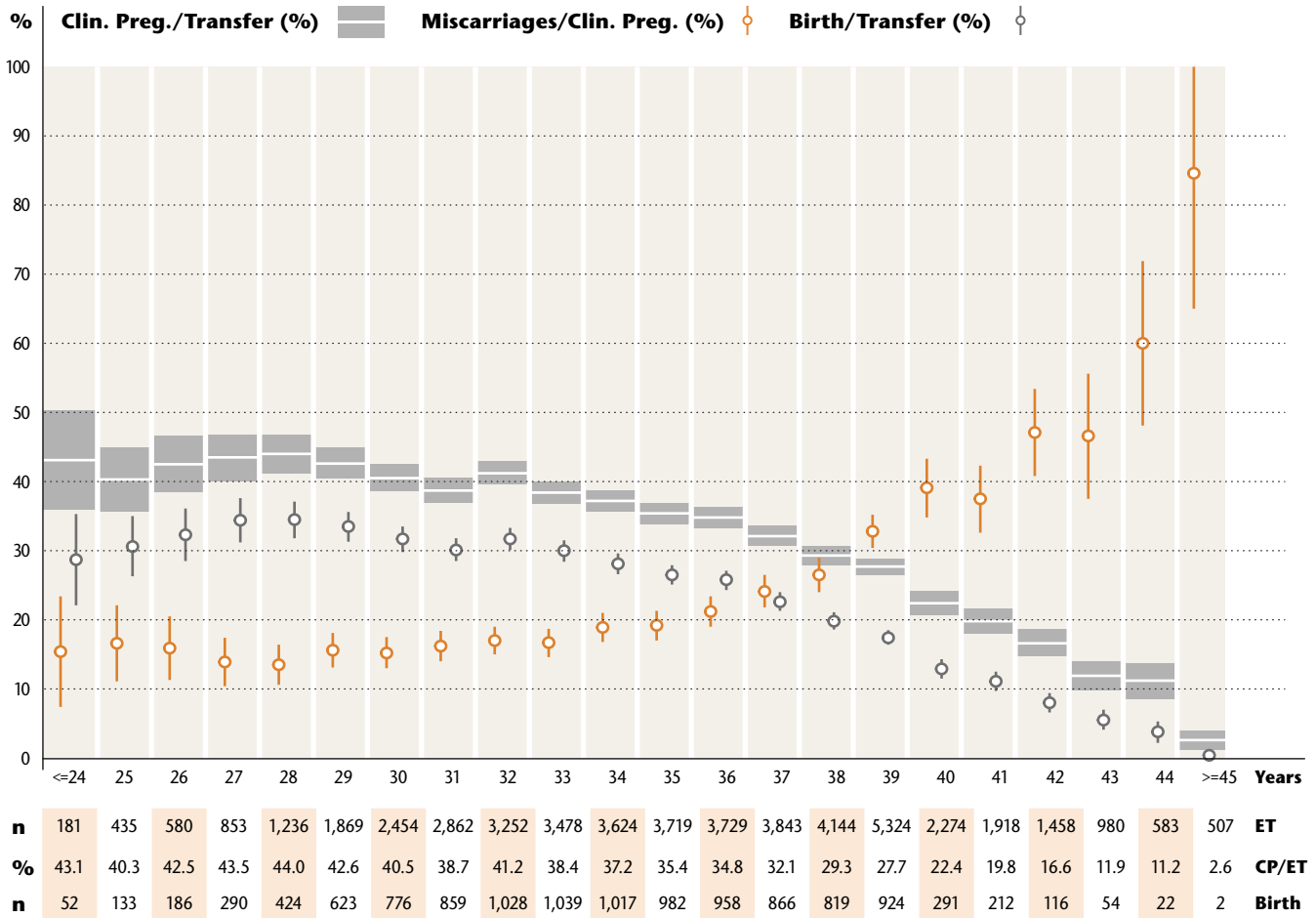
We are pleased about this development, as it means that fewer premature births are occurring. Nevertheless, there is a long way to go to reach other countries' low multiple birth rates, such as Scandinavia. There, multiples account for less than 5% of births.



# Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2020

Prospective Data

## IVF, ICSI, IVF/ICSI 2020



Pregnancy, abortion and birth rates are presented here as a 95% confidence interval. So with a 95%-probability, the true mean lies within the defined confidence interval.

In the above graph, analogous to previous years, you will find the results of cycles for transfer of at least one embryo after in vitro fertilisation and intracytoplasmic sperm injection (ICSI) 2020 as a function of the woman's age.

For women up to 32, pregnancy probabilities of over 40% per transfer are possible.

From the age of 33, however, pregnancy rate falls continuously; from the age of 40, it is below 20%, while from the age of 45, it is only 2.6% per embryo transfer.

This is even more evident in the birth rate, which is 30% up to the age of 33 and already falls below 20% from the age of 39. From the age of 45, only two children were born in Germany.

We conclude from these data that fertility treatment, even using reproductive medicine measures, should take place promptly and that one should not wait too long before realising one's desire to have a child.

# Single or double embryo transfer: Risk of multiple pregnancies! Differences between fresh and thawed transfer cycles: freezing is worthwhile!



We are particularly interested in comparing the transfer of one embryo and two embryos. How do the chances develop? How do the risks increase?

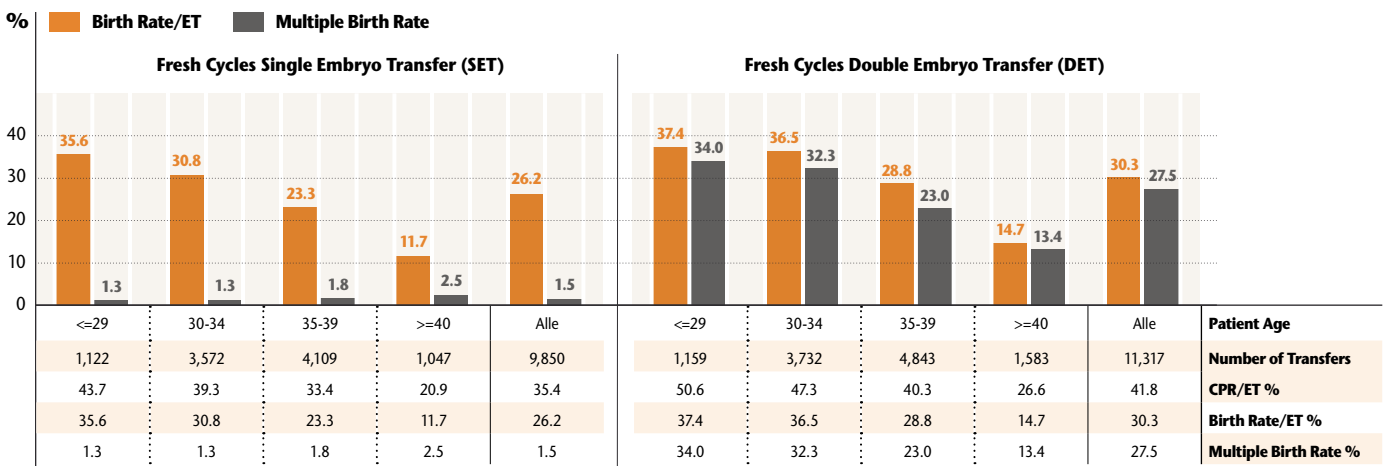
For the first time, the birth rate is compared here in contrast to previous years, where only the pregnancy rate was presented.

It is also essential for us to show the results separately for fresh cycles and thaw cycles.

## Fresh Cycles by Age Group: Pregnancy and Multiple Birth Rates / Single versus Double Embryo Transfer



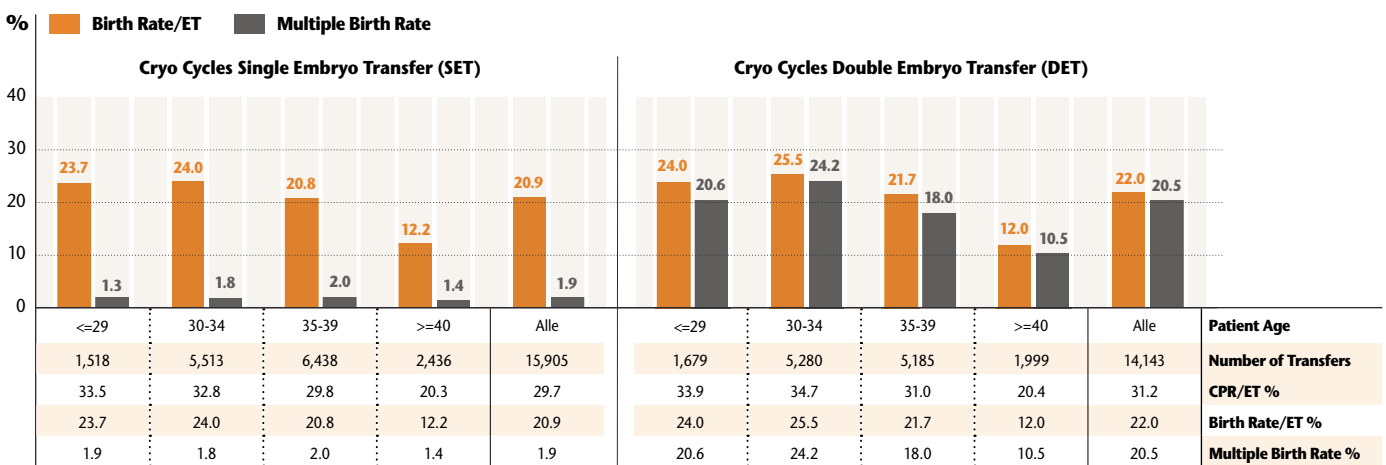
IVF, ICSI, IVF/ICSI 2020, Prospective Data, Transfer Days 5/6



## Thawing Cycles by Age Group: Pregnancy and Multiple Birth Rates / Single versus Double Embryo Transfer 2020



Prospective Data



In fresh cycles, after transfer of one embryo (SET), birth occurred in 26.2%, and after transfer of two embryos (DET), birth occurred in 30.3%. This 4.1%-points higher birth rate came at the cost of a multiple birth probability of 27.5%, compared to only 1.5% for single embryo transfers.

Women under 30 have the highest risk of multiple births, with a probability of 34% if they have two embryos implanted. At least every second of these multiple births results in premature birth!

In thawing cycles, birth rates after one embryo transfer are 20.9% and only 1.1%-points higher at 22.0% after transfer of two embryos.

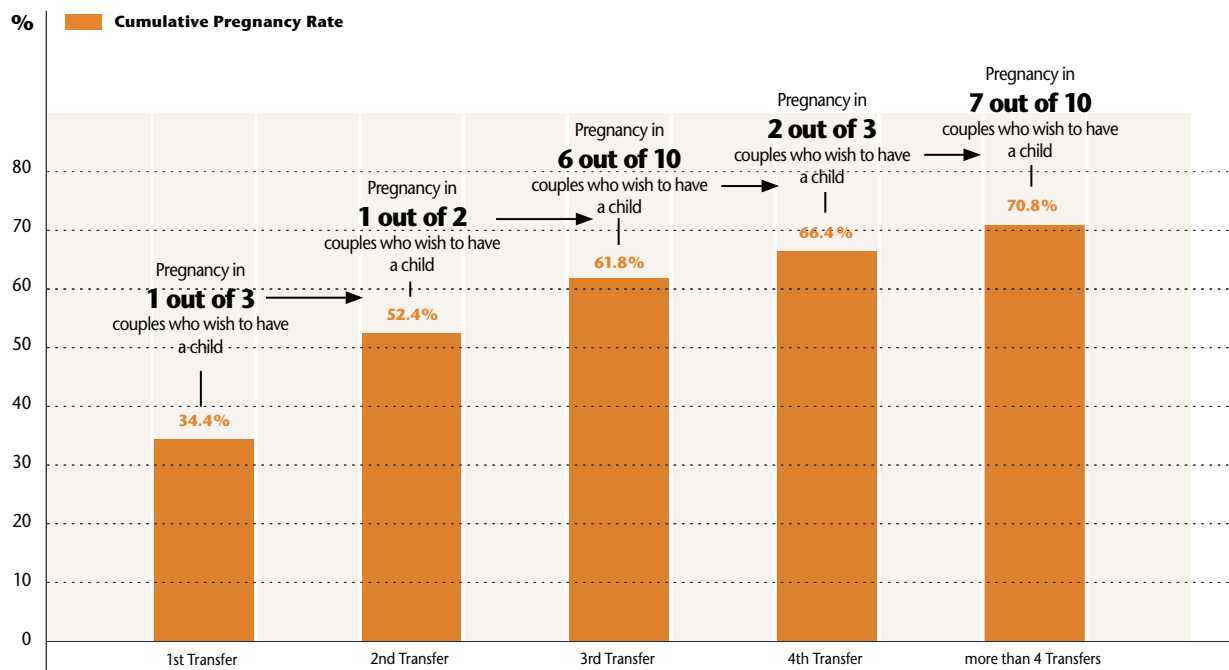
Here, too, the probability of having multiples after transfer of two embryos is significantly higher at 20.5% than after transfer of one embryo (1.9%).

Age plays a subordinate role here: whether one or two embryos are transferred from the age of 40, birth rate is 12.2 or 12.0% respectively. So it makes little sense to transfer two embryos in thawing cycle from the age of 40.

However, our shared treatment goal remains to achieve a healthy child's birth in a healthy mother.

# Pregnancies Cumulative 2018 – 2020

## Prospective Data



2018 – 2020 total	Retrievals	CP (Fresh Cycles)	CP (Fresh Cycles) in %	Cryo Cycles w. Transfer	CP (Cryo Cycles)	CP/ET (Cryo Cycles) in %	Cum. CP	Cumulative Pregnancy Rate in %
1st Transfer	90,440	31,246	34.5	18,614	6,280	33.7	37,526	34.4
2nd Transfer	32,886	10,262	31.2	30,691	9,396	30.6	57,184	52.4
3rd Transfer	17,255	5,193	30.1	17,572	5,000	28.5	67,377	61.8
4th Transfer	8,278	2,398	29.0	9,542	2,634	27.6	72,409	66.4
>4 Transfers	5,314	2,040	38.4	6,459	2,708	41.9	77,157	70.8

Based on patients who received their first embryo transfer in the years 2018 to 2020, the subsequent fresh and thawed cycles were examined.

While probability of pregnancy after a first embryo transfer was 34.4% on average, it increased cumulatively from second transfer to over 50%, from third transfer to 61.8%. After fourth transfer, two out of three women were pregnant (66.4%).

This shows that fertility treatment should always be thought about over a longer period. After a first transfer, it is less likely to become pregnant than not. However, after only three embryo transfers, the probability of being pregnant is higher than not being pregnant.

Also included in this consideration are cycles in which the first embryo transfer took place after thawing since an embryo transfer directly in the fresh cycle did not seem advisable for medical reasons. Here, the pregnancy rate compared to the first fresh

cycle with the transfer is almost the same, 33.7% versus 34.5%. These figures are essential for counselling couples, to give them courage and not to give up too early!

Unfortunately, cryopreservation is still not covered by statutory health insurance in Germany. This prevents many couples from taking advantage of the opportunities offered by freezing and thawing without needing hormonal stimulation and renewed egg retrieval.

**Therefore: As sad as a negative pregnancy test after a transfer is – the fact that two out of three patients are pregnant after four treatments should encourage couples to draw strength for further treatment cycles!**

**Dr. med. Andreas Tandler-Schneider, Berlin (in charge)**

*Dr. med. Ute Czeromin, Gelsenkirchen*

*Prof. Dr. med. Jan-Steffen Krüssel, Düsseldorf*

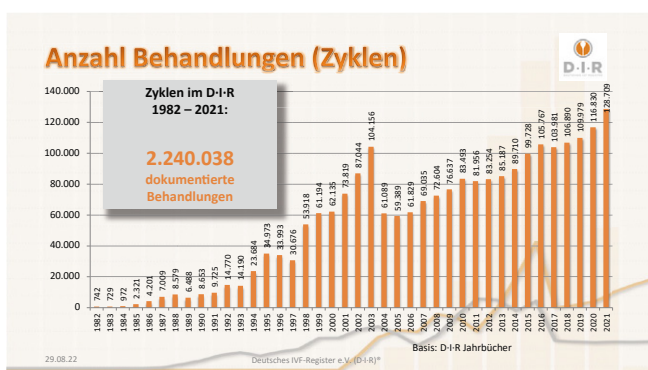
# Celebrations as they come – Reproductive Medicine in Germany

40 years of German IVF-Registry – 25 years of digital data collection

What one forgets in the daily effort of register work with data field definitions, selection fields, acquisition software, interfaces, databases, evaluation tools is how much has been achieved in these years!

We are thankful! The initiative of Prof. Dr. Frank Lehmann is unforgettable, who in 1982 motivated five exclusive university centers to jointly record, evaluate and discuss the reproductive medical treatment cycles. Back then, regardless of health policy or professional law requirements, he laid the foundation and whose spirit we still live by: The creation of an inherently medically motivated register work for quality assurance, for learning from one another, for exchange, for scientific evaluations and findings and thus for quality improvement.

A register database, which now includes 2,240,038 treatment cycles, was created from a collection of paper registration forms filled out by hand.



The database has consistently survived all changes in the necessary database structures. It was fed from different reporting channels, from paper registration forms to diskettes, floppy disks, USB sticks to the first (today a matter of course) online exports.

The database was fed by constantly changing acquisition software – the D-I-R own software IVF-C, MEDIS, D-I-R pro, DIRproNOVA, the commercial products DIR 1.0, RecDateFM, RecDate Advance, MedITEX, QuinniSoft – with all its updates and changes.

The data collection was fed with precisely programmed interfaces via the DIR DLL, now via the ARTbox®.

We owe the start of the electronic database, which is so valuable to us, to Mr. Wolfgang Dahncke, Schleswig-Holstein Medical Association. Previously, with the support of the Federal Association of Reproductive Medicine Centers (BRZ), the IVF register was established under the umbrella of the German Society for Gynecology and Obstetrics (DGGG) and as an organ of the Working Group on Gynecological Endocrinology and Reproductive Medicine (AGGEF).

What do we owe to Mr. Dahncke? Organisation and Order! Order in definition of terms, in structures, in plausibility. Order of the data set, in the plausibility check, in the D-I-R DLL interface – and: Order in the coordination of the medical advisers of the Advisory Board and the working groups of reproductive medicine colleagues. At this point we would like to thank Mr. Dahncke, from whose work we still benefit.

The organizational home of the German IVF Registry has changed. Initially it was based at the Medical Association Westfalen-Lippe, then at the Medical Association Schleswig-Holstein. Since 2009 it has the status of a non-profit association. Since 2012 the German IVF Registry has had its home at the D-I-R office in Berlin, then in Düsseldorf.

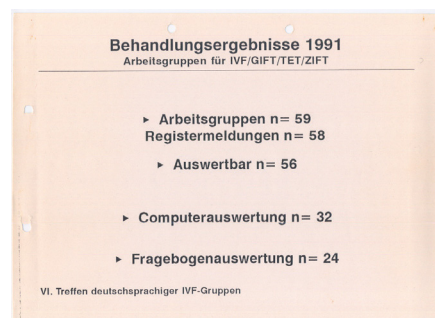
What do we owe to our volunteer colleagues? Since 1982 the medical content of the register work has been carried out by volunteer colleagues. The board work, the work in the advisory board, the work in the current organs of the D-I-R such as the board or the board of trustees, the participation in the various working groups that are necessary again and again: Without the voluntary work done alongside the clinical work, the register structure could never have been filled with medically meaningful content. We cannot be thankful enough for that.

At this point we would like to name the former CEOs as representatives of all of them:

Prof. Dr. medical Frank Lehmann (1982-1992), Prof. Dr. medical Hanns-Kristian Rjosk (1992 -1995), Prof. Dr. medical Ricardo Felberbaum (1995-2007), Dr. medical Klaus Bühler (2007-2014). The additional naming of biologist and embryologist Verona Blumenaier is the exception. She is a member of the board of trustees for the 25th year in office. For us she is a veteran of D-I-R. We apologize to all other good spirits who have invested hours, days, weeks, years in the D-I-R work for not being mentioned by name here. Everyone is aware that the D-I-R would not exist without you!

## Publications

At the VI. Meeting of the German-speaking IVF-groups the data for 1991 were presented, for the years 1991 – 1995 we have the data in the form of the slides presented at that time. The yearbooks



of the D-I-R have been published in-house since 1996, and since Picture 3 2009 the D-I-R yearbooks have been citable publications in the Journal of Reproductive Medicine and Endocrinology. Since 2009, the standard

evaluations have also been published in English. For the first time,

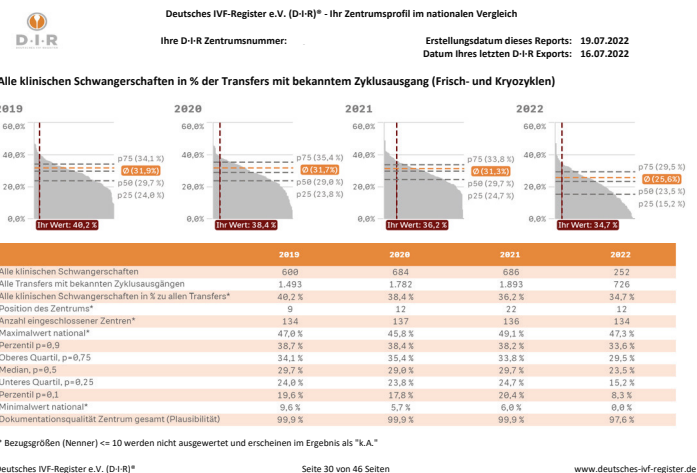


the 2021 yearbook, including all editorial texts and all special evaluations, will be accessible to the international public in English, in 2022. All D-I-R yearbooks offer a differentiated, meticulously compiled compilation of reproductive medical treatments in Germany. They not only provide physicians but also patients, the press, political decision-makers and the courts with a solid database.

acquisition programs, which then can be used by the D-I-R centers if they have an exact interface to the ARTbox® and the data export to the register is thus secured. In times of transparency and compliance, the D-I-R has thus achieved an industry-independent structure.

Use of the D-I-R for the centers

The database published in the yearbooks serves as a tool in daily patient counseling. In addition, the D-I-R for the centers has the inestimable advantage of being able to uncover any existing weaknesses in the quality of the results compared to the national values. Thus it offers the opportunity to identify potential for improvement.



Quality assurance of the medical associations

Due to the high quality of the D-I-R numbers, the obligation to report to the D-I-R was included in the "Guidelines for carrying out Assisted Reproduction" of the German Medical Association in 1999 and implemented by most of the 17 states medical associations. In 2012, the sovereign professional tasks for quality assurance were decoupled by founding the medical association initiative QS-ReproMed. As of 2022, 14 of the 17 state medical associations are participating in QSReproMed. At the end of a lengthy discussion, thanks to the ability of all those involved to compromise, it was possible to use the same data set, the same acquisition software and the same interface for data transmission to the D-I-R and to QS-ReproMed. This saves the centers from having to enter data twice for both addressees.

IVF Annual Meeting

The figures for 1991 were published at the VI. IVF Annual Meeting. The XXXVI. IVF Annual Meeting will take place in November 2022. In addition to the scientific program of this congress, the publication of the 2021 yearbook will, as always, be a highlight.

Independence of the D-I-R

It should not go unmentioned that the digitization of the D-I-R could not have been financed by the member centers without the support of the industry. The Serono company has financed the development of a uniform acquisition software for years, without having any influence on the content. The digitization push is due to the tireless dedication and intellectual commitment of Serono employee Norbert van Rooij. We still benefit from that! The current EDP structure has been independent of industry and financed by the centers for years. The member centers have funded the current D-I-R proprietary acquisition program DIRproNOVA and are making it available to centers that cannot or do not want to use commercial software. Alternatively, the market offers IVF

Finally, words from the current Executive Board and Board of Trustees:

We are happy, grateful and proud of the history and present of the German IVF Register e.V. (D-I-R). We wish for the future that this lively, responsible, dynamic and also altruistic work will be continued. We hope that the acceptance and support of (almost) all German IVF centers will be maintained. Our D-I-R heart is attached to the spirit formulated by Prof. Frank Lehmann:

Work on a very own? medically motivated register work for quality assurance, for learning from each other, for exchange, for scientific evaluations and findings and thus for quality improvement.

In this sense!

Your D-I-R Board and your Board of Trustees in 2022

# Main Topic: Is "less" really always "more"?

## Therapy results after DET on day 2/3 vs. SET on day 5/6



Dear Colleagues

As in previous years, we are presenting a special evaluation on the topic of "less is more" in this D-I-R Yearbook. The fact that it makes more sense to reduce the number of embryos transferred in order to reduce the risk of multiple births and the associated burden for mothers and children than to transfer several embryos at the cost of an increased risk of multiple births, fortunately seems to be gaining more and more awareness among those working in reproductive medicine and is also having an influence on their daily work.

First of all, a look at the last three yearbooks shows that the number of treatments in which a transfer was carried out on day 4-6 has increased significantly: in the case of fresh transfers (Fig. 1a) by a factor of 4 and in the case of cryotransfers (Fig.1b) by a factor of 1.6. We interpret these increases as a sign of the more frequent implementation of the Deutschen Mittelweg<sup>1</sup> (DMW).

Fig. 1a: Number of SET vs DET d4-6 Transfers Fresh Cycles

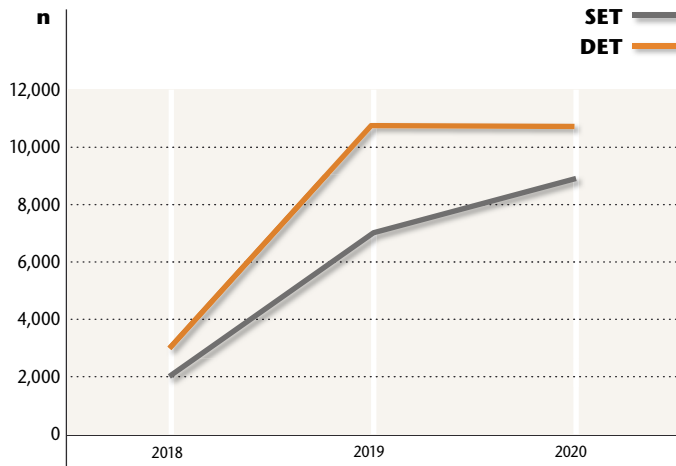
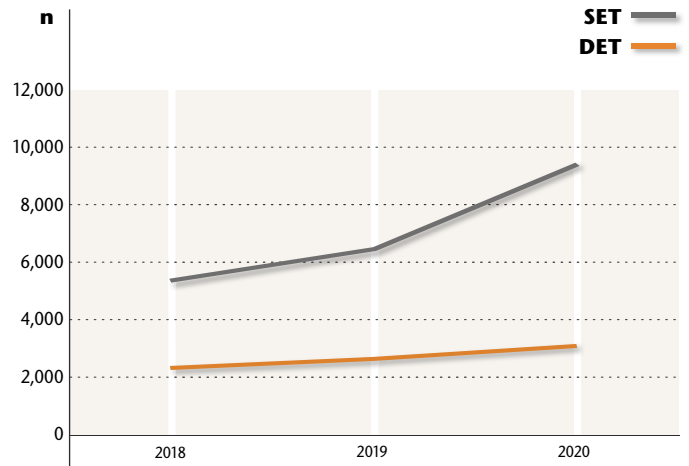


Fig. 1b: Number of SET vs DET d4-6 Transfers Cryo Cycles



**Fresh Cycles**

	2018	2019	2020
SET	1,981	7,028	8,934
DET	2,961	10,771	10,742
<b>Total</b>	<b>4,942</b>	<b>17,799</b>	<b>19,676</b>

**Cryo Cycles**

	2018	2019	2020
SET	5,356	6,457	9,405
DET	2,319	2,632	3,085
<b>Total</b>	<b>7,675</b>	<b>9,089</b>	<b>12,490</b>

In this yearbook, we have again compared the treatment results after day 4-6 - transfer of one embryo with those after day 4-6 - transfer of two embryos.

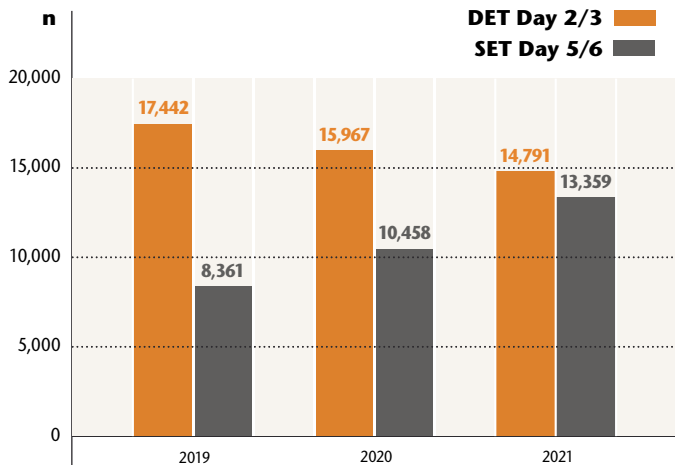
As already shown in the 2019 and 2020 yearbooks, we were again able to observe a comparatively small increase in the pregnancy rate (36.5% for SET vs 41.9% for DET) and birth rate (26.7% for SET vs 29.6% for DET), which, however, leads to an immense increase in multiple pregnancies (1.3% for SET vs 27.6% for DET). This is also true (although not quite as pronounced) when viable supernumerary embryos previously developed - usually as part of the use of the "Deutschen Mittelweg" - were cryopreserved at the blastocyst stage and thawed and transferred at a later date.

In this yearbook, we have also evaluated this discrepancy by looking at the age groups commonly used in the D-I-R yearbook.

On a page forward in this yearbook, the results are presented, and, when weighing the benefits and risks, no significant advantage is found for a DET compared to a SET in all age groups. In the case of fresh transfers on days 4-6, the proportion of SET has fortunately also increased significantly compared to the DET, in contrast to which the number of DETs has decreased slightly from 2019 to 2020 - this development is very welcome from our point of view!

So far, however, in our observations on the comparison of SET vs DET, we always compared the exact identical times of embryo transfer: either SET on day 2-3 vs DET on day 2-3 (cleavage-stage transfer) or SET on day 4-6 vs DET on day 5-6 (blastocyst transfer). The following question has now been put to us by D-I-R members:

Fig. 2: Number of Cycles DET 2/3 and SET 5/6



So obviously, more and more centres are moving towards applying the DMW more consistently with the aim of SET 5/6.

The developmental capacity of a preimplantation embryo on days 2-3 is known to be predictable only to a limited extent: it is a fact that only a part of these embryos will reach the blastocyst stage, and another part will become atretic. There is the theoretical consideration that these proportions might differ in an in vitro culture from those in an in vivo culture, i.e. after an embryo transfer into the uterus on days 2-3. The basic theory expressed here is that although in-vitro culture conditions have become increasingly better in recent years, in-vivo culture still offers the best (physiological) conditions. However, this overlooks that the uterus also does not represent the physiological environment of a preimplantation embryo on days 2-3 since the embryo usually is not in utero at this time but in the fallopian tube. It is, therefore, interesting to investigate whether the SET of a blastocyst, which has demonstrably already developed to this stage, leads to better or worse birth rates than the transfer of two cleavage-stage embryos, which may have better culture conditions in utero. The results of this evaluation were precise (Fig. 3).

After SET at the blastocyst stage, the birth rates per transfer were higher than when two embryos were transferred on day 2/3. This can be interpreted to mean that the possible advantage of a "physiological", or "as natural as possible" in vivo culture is surpassed by the longer in vitro culture and the thus possible better assessment of the embryos' developmental capacity.

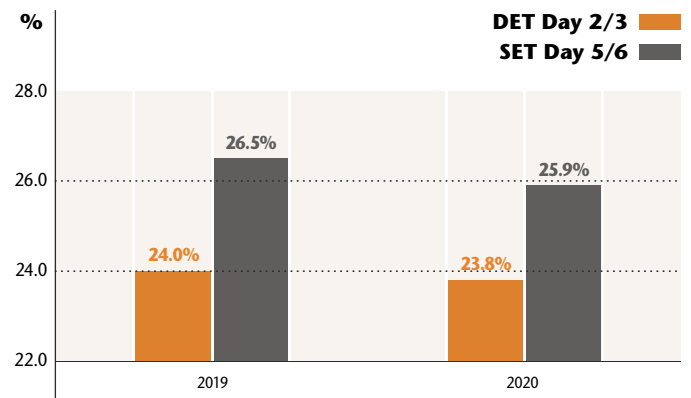
Furthermore, the overall consideration naturally also includes the proportion of multiple births resulting from these transfers (Fig. 4).

Are there any differences in the risk-benefit ratio when comparing the transfer of 2 embryos on days 2-3 with the transfer of one embryo on days 5-6?

This question seemed interesting to us for several reasons, so we analysed the data from the most recent three treatment years (2019-2021) on this. Comparing the characteristics of the patients, we see that there are no age differences. The only difference is in the number of oocytes retrieved. In the SET 5/6 group, an average of 10.5 oocytes were recovered, whereas in the DET 2/3 group, an average of 8.5 oocytes.

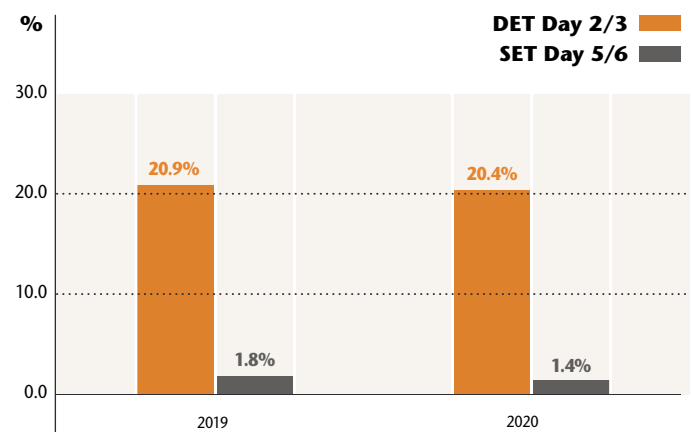
In purely descriptive terms, it could first be determined that the number of cycles of DET at day 2/3 was higher than the number of processes with SET at the blastocyst stage, with DETs showing a decreasing frequency and SETs an enormously increasing frequency (Fig. 2).

Fig. 3: Birth Rate / ET after DET 2/3 and SET 5/6



Thus, as in the comparison of SET to DET at the blastocyst stage, the multiple birth rate after DET is many times higher, even if this is already performed on day 2/3 where it can be assumed that some of the preimplantation embryos will also become atretic in the in vivo culture and will not develop into the blastocyst stage at all.

Fig. 4: Multiple Birth Rate / ET after DET 2/3 and SET 5/6



In summary, it can be concluded from the data that the transfer of two preimplantation embryos at the cleavage stage on day 2 or 3 leads to worse pregnancy and birth probabilities than the transfer of one embryo at the blastocyst stage. On the other hand, the likelihood of multiple pregnancies and birth is higher by a factor of 12-14 with DET.

for action could be derived that in the presence of several fertilised oocytes, the consistent application of the German Mean Path with resulting SET on day 5/6 represents an advantage for the couples concerned both for the probability of birth and the reduction of the risk of multiple pregnancies. Thus, this evaluation also shows that "less" is indeed "more".

If one considers the average degree of maturity of the retrieved oocytes and the average fertilisation rate, the recommendation

## DET with Transfer on Day 2/3 versus SET with Transfer on Day 5/6

Data of this Special Evaluation



Years	Fresh Cycles DET Transfers Day 2/3				Fresh Cycles SET Transfers Day 5/6			
	2018	2019	2020	2021	2018	2019	2020	2021
Number of Centers	131	132	137	136	124	120	129	133
Cycles Documented	19,056	18,191	16,919	15,568	6,922	8,654	10,917	13,861
Cycles Plausible	18,549	17,548	16,075	14,869	6,824	8,416	10,534	13,452
Cycles Plausible %	97.3	96.5	95.0	95.5	98.6	97.2	96.5	97.0
Number of Patients	16,408	15,567	14,262	13,178	6,336	7,809	9,708	12,361
Mean Treatment / Patient	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Mean Age Patient	34.7	34.9	35.1	35.4	34.6	34.5	34.7	34.8
Mean Oocytes Retrieved	8.51	8.47	8.13	7.91	10.47	10.45	10.39	10.32
Mean Days of Culture	2.62	2.63	2.61	2.64	5.03	5.03	5.03	5.03
Transfers	18,423	17,442	15,967	14,791	6,765	8,361	10,458	13,359
Clinical Pregnancies	6,066	5,741	5,246	4,757	2,295	2,918	3,675	4,659
Clinical Pregnancies / ET %	33.1	33.0	33.0	32.4	34.0	35.0	35.3	35.1
Misscarries / Clin. Pregnancies %	18.7	20.2	21.6		19.2	20.0	21.2	
Births	4,487	4,171	3,783		1,728	2,207	2,703	
Births / Clin. Pregnancies %	74.0	72.7	72.1		75.3	75.6	73.6	
Births / Transfers %	24.4	24.0	23.8		25.6	26.5	25.9	
Singletons	3,510	3,301	3,011		1,690	2,168	2,665	
Singletons %	78.2	79.1	79.6		97.8	98.2	98.6	
Multiple Births	977	870	772		38	39	38	
Multiple Births %	21.8	20.9	20.4		2.2	1.8	1.4	
Children	5,478	5,049	4,565		1,766	2,247	2,741	
Shares in Cycles plausible %	73.1	67.6	60.4	52.5	26.9	32.4	39.6	47.5
Shares in Transfers %	73.1	67.6	60.4	52.5	26.9	32.4	39.6	47.5
Shares in CP %	72.6	66.3	58.8	50.5	27.4	33.7	41.2	49.5
Shares in Births %	72.2	65.4	58.3		27.8	34.6	41.7	
Shares in Multiple Births %	96.3	95.7	95.3		3.7	4.3	4.7	

1) Bals-Pratsch M, Dittrich R, Frommel M (2010) Wandel in der Implementation des Deutschen Embryonenschutzgesetzes. J. Reproduktionsmed. Endokrinol. 2010; 7 (2), 87-95

**Prof. Dr. med. Jan-Steffen Krüssel, Düsseldorf (in charge)**

Dr. med. Ute Czeromin, Gelsenkirchen

Dr. med. Andreas Tandler-Schneider, Berlin



# D·I·R Annual 2021 – Tables

## Number of Treatments in 2021

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



Members of the German IVF-Registry 2021	n= 140
Registry Participants 2021	n=140
Data Received by Deadline May 24th 2022	n=140
Documented Treatment Cycles	n=128,709
Number of Women Treated*	n= 69,355
<b>Mean Number of Treatment Cycles per Woman</b>	<b>1.9</b>

## Type of plausible treatment 2017 – 2021

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



	2017		2018		2019		2020		2021	
	n	%	n	%	n	%	n	%	n	%
IVF	15,896	15.8	17,339	16.6	18,218	16.9	19,117	16.8	21,066	16.8
ICSI	46,813	46.5	46,637	44.6	46,245	42.8	45,829	40.4	49,181	39.2
IVF/ICSI	1,171	1.2	1,436	1.4	1,342	1.2	1,501	1.3	1,355	1.1
Freeze all - MII	1,226	1.2	1,631	1.6	1,832	1.7	2,131	1.9	3,102	2.5
Freeze All - PNs and Embryos	3,934	3.9	4,725	4.5	5,223	4.8	5,794	5.1	6,660	5.3
Cryo	26,653	26.5	28,129	26.9	30,430	28.2	33,560	29.6	36,909	29.4
Mixed Fresh and Cryo Cycles	749	0.7	539	0.5	510	0.5	416	0.4	404	0.3
None (= Break-off before oocyte treatment or thawing)	4,288	4.3	4,135	4.0	4,193	3.9	5,136	4.5	6,865	5.5
<b>Total Plausible Cycles</b>	<b>100,730</b>		<b>104,571</b>		<b>107,993</b>		<b>113,484</b>		<b>125,542</b>	

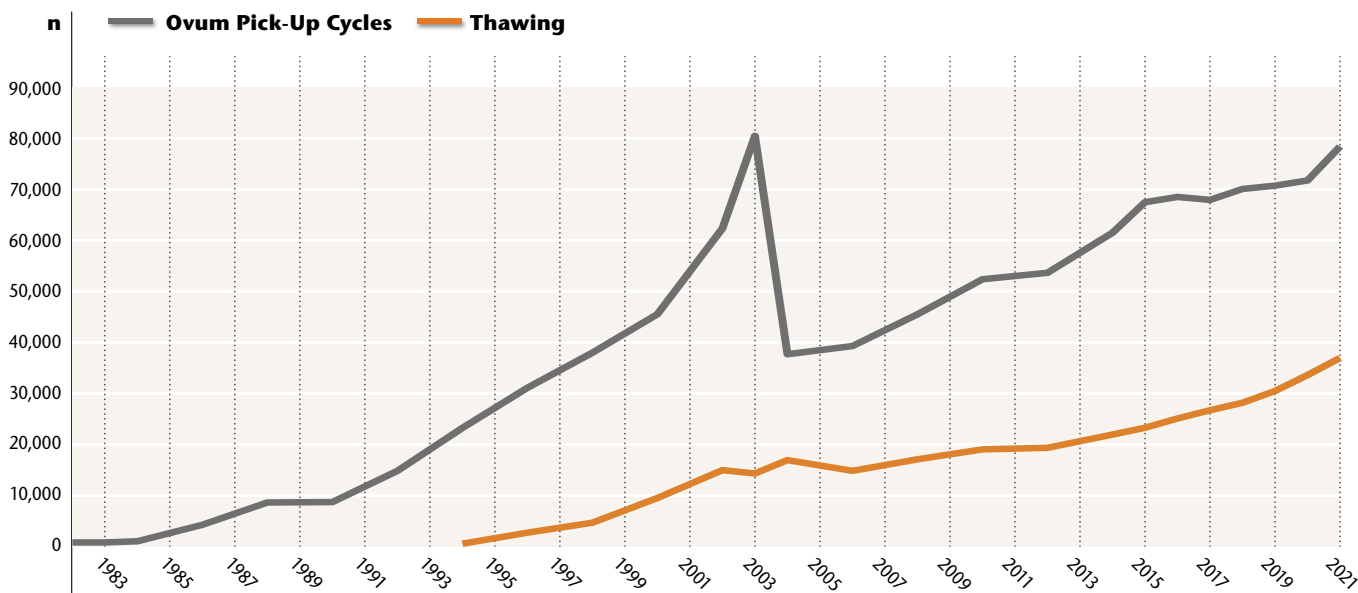
\*) Base quantity: Total number of women, including implausible treatment cycles.

# Number of Oocyte Retrievals (Freshcycles) 1982 – 2021

## Number of Thawing Cycles 1994 – 2021

### Registry Participants 1982 – 2021

IVF, ICSI\* – Prospective and Retrospective Data



	1982	1986	1990	[ ... ]	2002	2003	2004	[ ... ]	2017	2018	2019	2020	2021
.	742	4,201	8,653		62,306	80,434	37,633		67,888	70,035	70,679	71,708	78,363
IVF	742	3,806	7,343	For values from 1991 to 2001 see <a href="http://www.deutsches-ivf-register.de">www.deutsches-ivf-register.de</a>	23,936	28,058	11,848	For values from 2005 to 2016 see <a href="http://www.deutsches-ivf-register.de">www.deutsches-ivf-register.de</a>	15,896	17,339	18,218	19,117	21,066
ICSI*					37,692	51,389	25,339		47,984	48,073	47,587	47,330	50,536
Thawing					14,923	14,265	16,883		26,653	28,129	30,430	33,560	36,909
<b>Registry Participants</b>	<b>5</b>	<b>28</b>	<b>53</b>		<b>112</b>	<b>116</b>	<b>120</b>		<b>130</b>	<b>131</b>	<b>133</b>	<b>140</b>	<b>140</b>

Data for 1982 to 2010 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.

# Quality of Documentation 2020/2021

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



*Any evaluation is only as good the raw data.*

*The yearbook team thanks the centers für their meticulous work!*

## Plausible Cycles 2021

**125,542** plausible cycles out of **128,709** documented cycles. **97.5%** of documented cycles are plausible. This does unfortunately not imply completeness of data required, thus impeding detailed analyses.

## Prospectively Recorded Cycles 2021

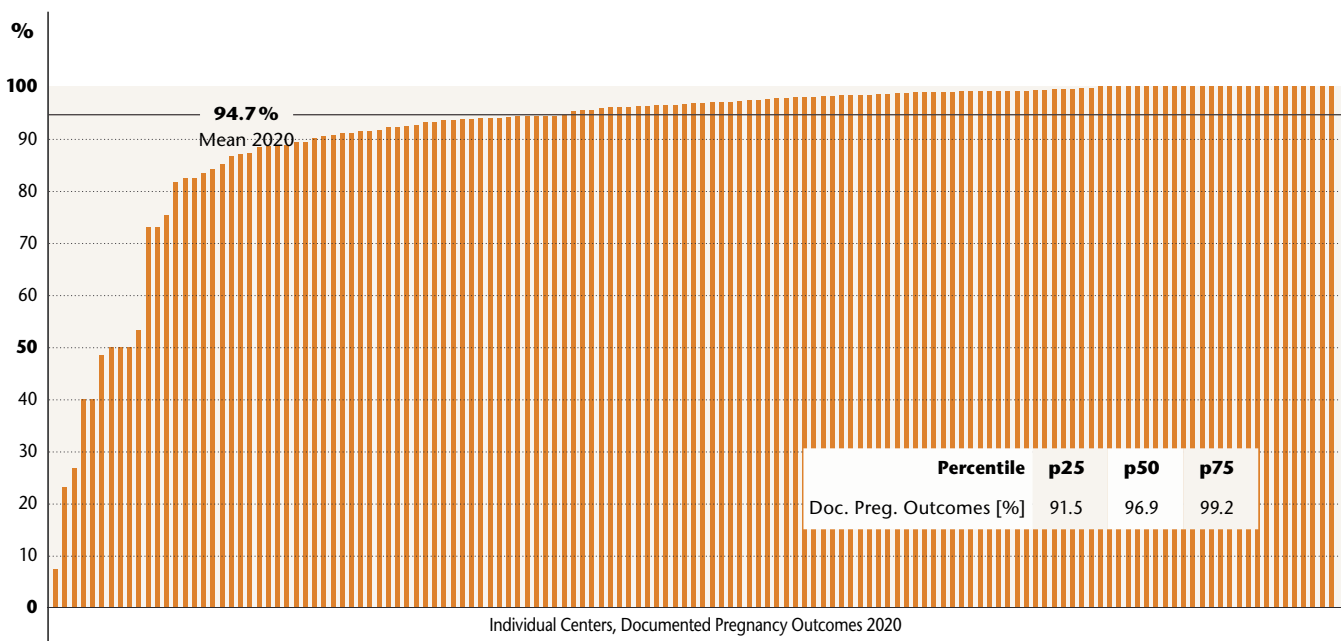
**113,703** prospectively recorded cycles out of **125,542** plausible cycles. **90.6%** of all plausible cycles were recorded prospectively. The German IVF Register is the only register worldwide that shows the number of prospectively recorded cycles. This is a quality feature in itself!

## Documented Cycle Outcomes 2021

The result of the cycle was recorded in **89,751** of **90,378** embryo transfers. **99.3%** of cycle outcomes were documented.

## Documented Pregnancy Outcomes 2020

The pregnancy outcome was recorded for **25,488** of **26,919** clinical pregnancies. **94.7%** of pregnancy outcomes were documented. With this, the D-I-R received from the centers again a quota very close to the D-I-R target of **95%**, and we would like to say a special thank you for this complex work!



We know: The work, especially on the documentation qualities mentioned here, is laborious, time-consuming and ties up resources.

The aim of the Executive Board and the Board of Trustees is to continue to motivate the centers to draw attention to the parameter of prospectivity.

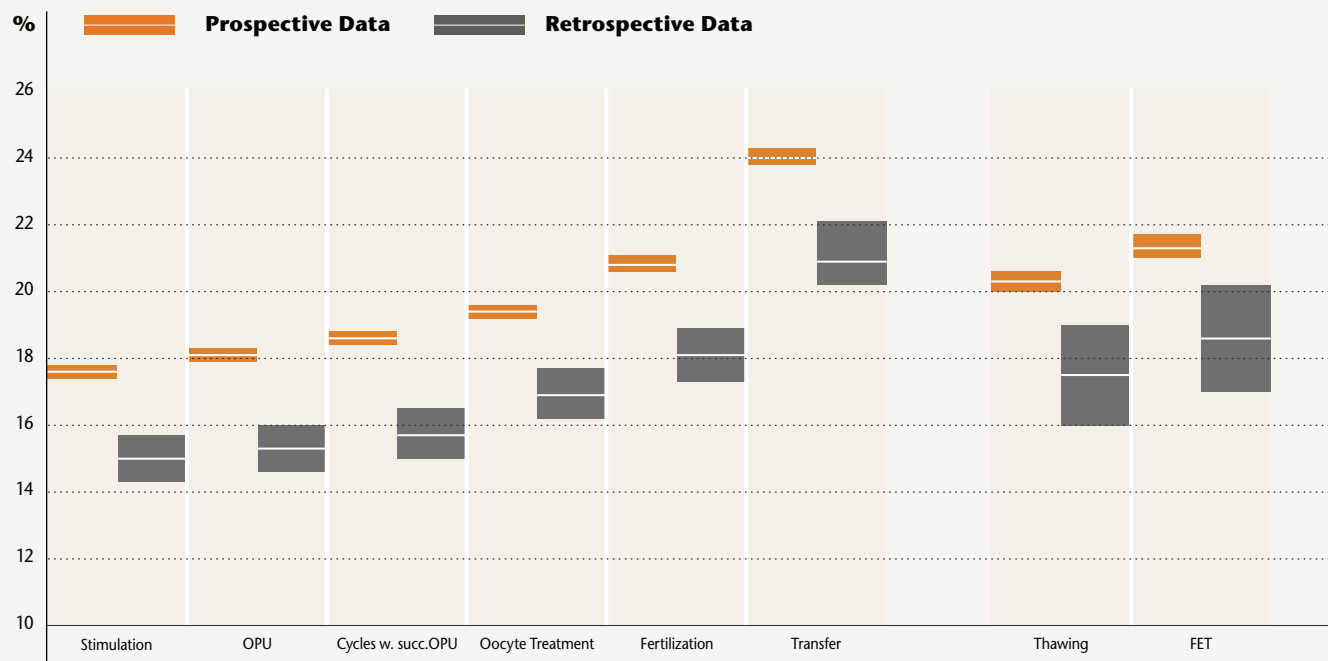
With **94.7%** documented pregnancy outcomes, the D-I-R received a quote close to the **95.0%**-target of the D-I-R.

We are also aiming for a documented pregnancy outcome rate of **more than 95%** for 2021.

**43** centers had a quota of **over 99%**, **26** centers even a quota of **100%**.

# Birth Rate per Treatment Level in Fresh and Cryo Treatment Cycles 2019 and 2020

Prospective and Retrospective Data



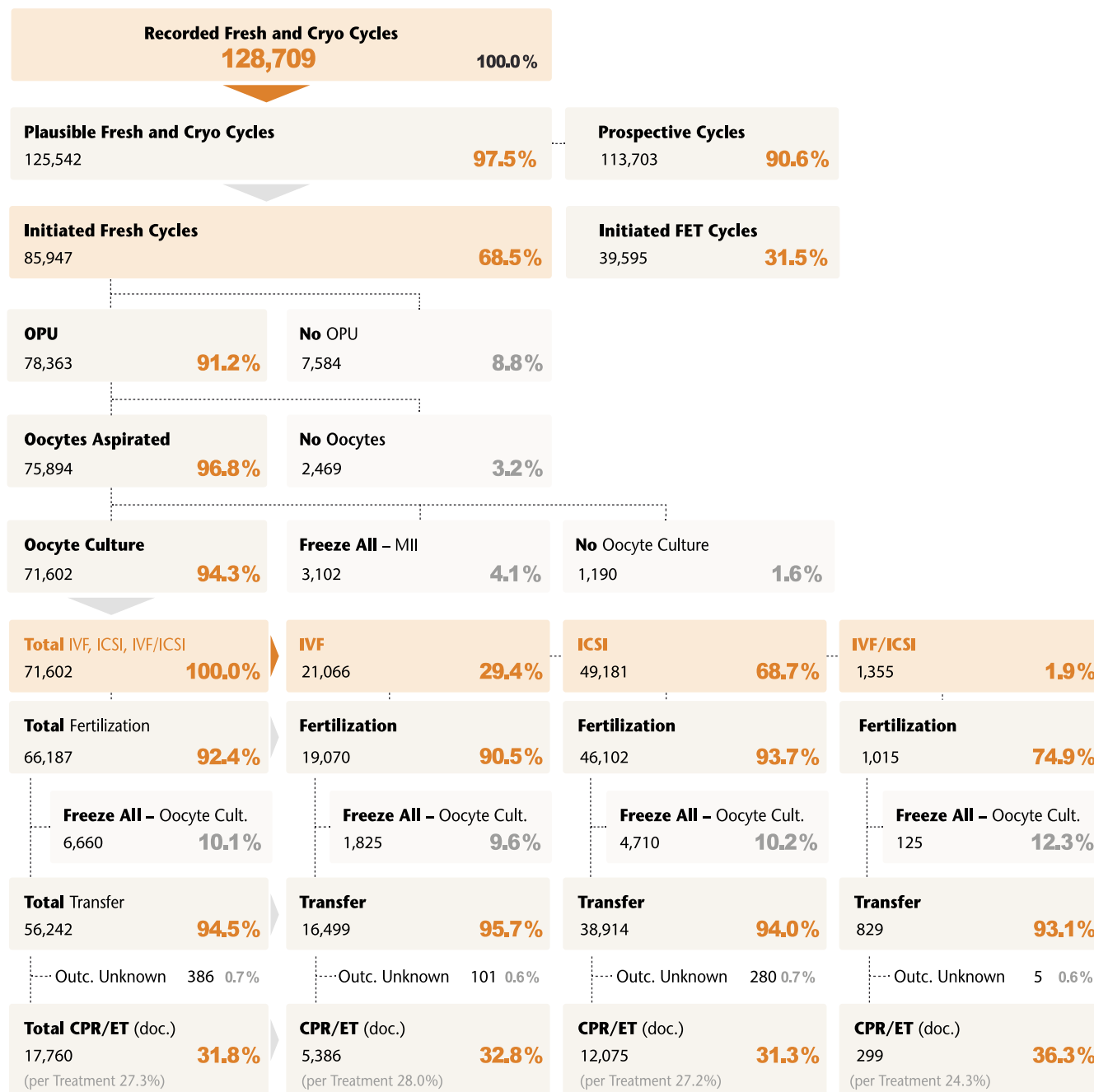
	Stimulation	OPU	Cycles with Successful OPU	Oocyte Treatment	Fertilization	Transfer	Thawing	FET
<b>Prospective Numbers</b>	135,942	132,253	128,346	123,118	114,638	99,700	61,505	58,517
Birth	23,894	23,894	23,894	23,894	23,894	23,894	12,477	12,477
Upper Confid. Limit*	17.8	18.3	18.8	19.6	21.1	24.3	20.6	21.7
Birth/Treatm. %	17.6	18.1	18.6	19.4	20.8	24.0	20.3	21.3
Lower Confid. Limit*	17.4	17.9	18.4	19.2	20.6	23.8	20.0	21.0
<b>Retrospective Numbers</b>	10,319	10,133	9,834	9,134	8,556	7,392	2,476	2,334
Birth	1,547	1,547	1,547	1,547	1,547	1,547	434	434
Upper Confid. Limit*	15.7	16.0	16.5	17.7	18.9	22.1	19.0	20.2
Birth/Treatm. %	15.0	15.3	15.7	16.9	18.1	20.9	17.5	18.6
Lower Confid. Limit*	14.3	14.6	15.0	16.2	17.3	20.2	16.0	17.0

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

## D·I·R Statistics in Brief – Fresh Cycles 2021 (CoD May 24th 2022)



German IVF Registry – Prospective and Retrospective Data



For Social Freezing, 2,258 cycles have been documented, resulting in 2,010 aspirations with an average of 10.8 oocyte retrieved. Freeze all oocytes: 1,809 cycles.  
For PID, 411 cycles have been documented.

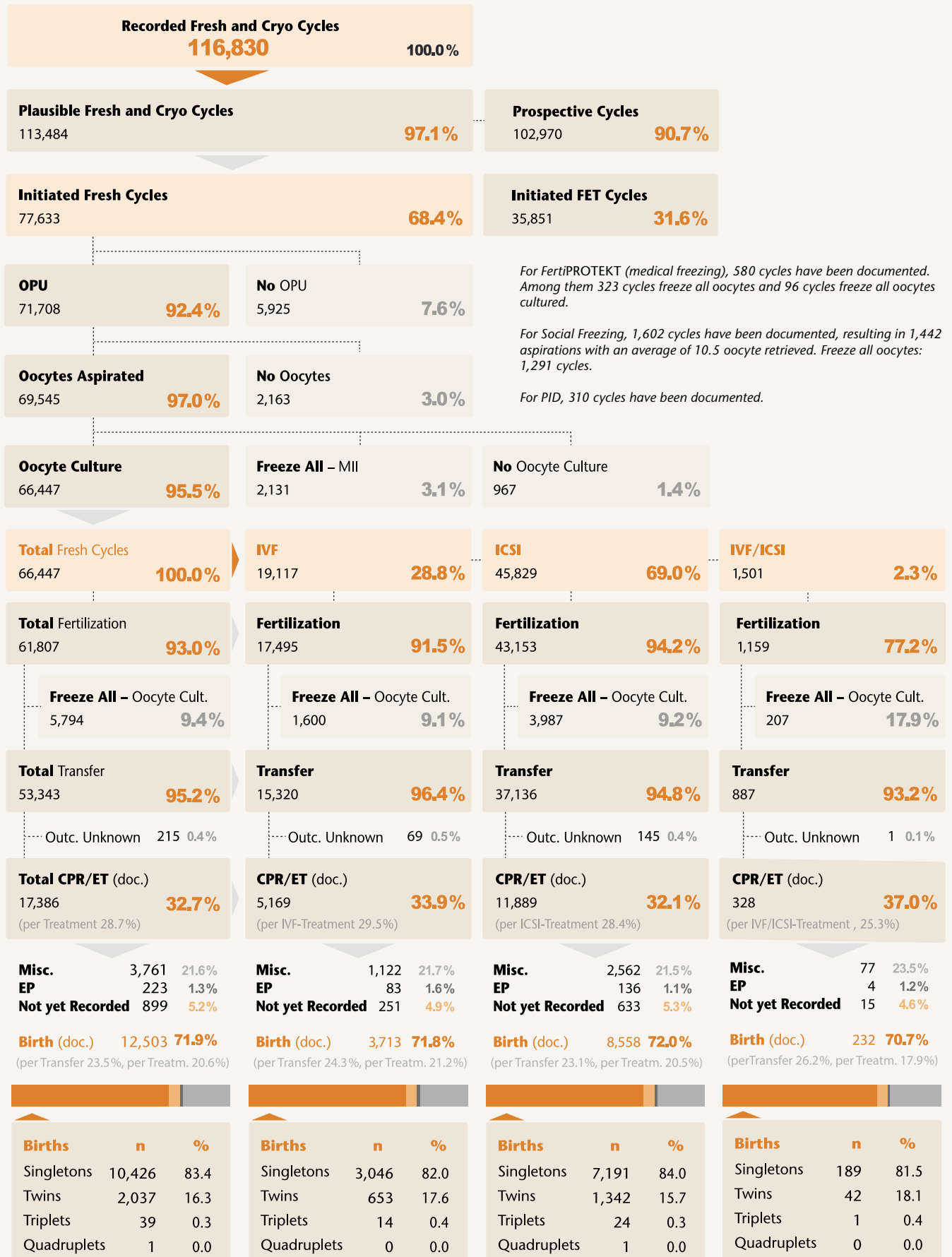
For pages 22 and 23:

Clinical pregnancy rates per transfer are adjusted by unknown outcomes.

Transfer rate, clinical pregnancy rates per treatment and birth rates per treatment are adjusted by freeze all oocytes cultured.

# D·I·R Statistics in Brief – Fresh Cycles 2020 (CoD May 24th 2022)

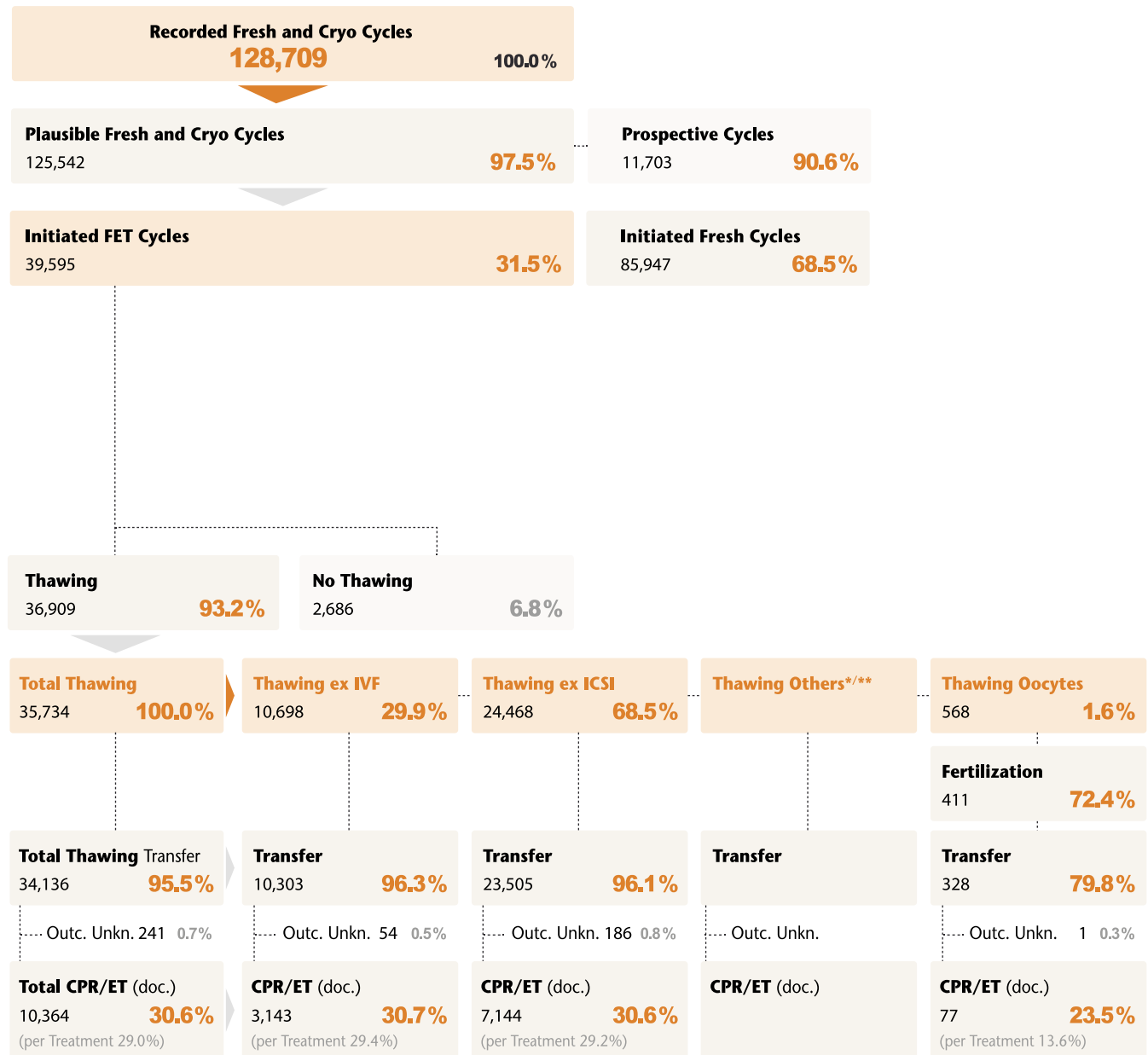
German IVF Registry – Prospective and Retrospective Data



## D-I-R Statistics in Brief – Cryo Cycles 2021 (CoD May 24th 2022)



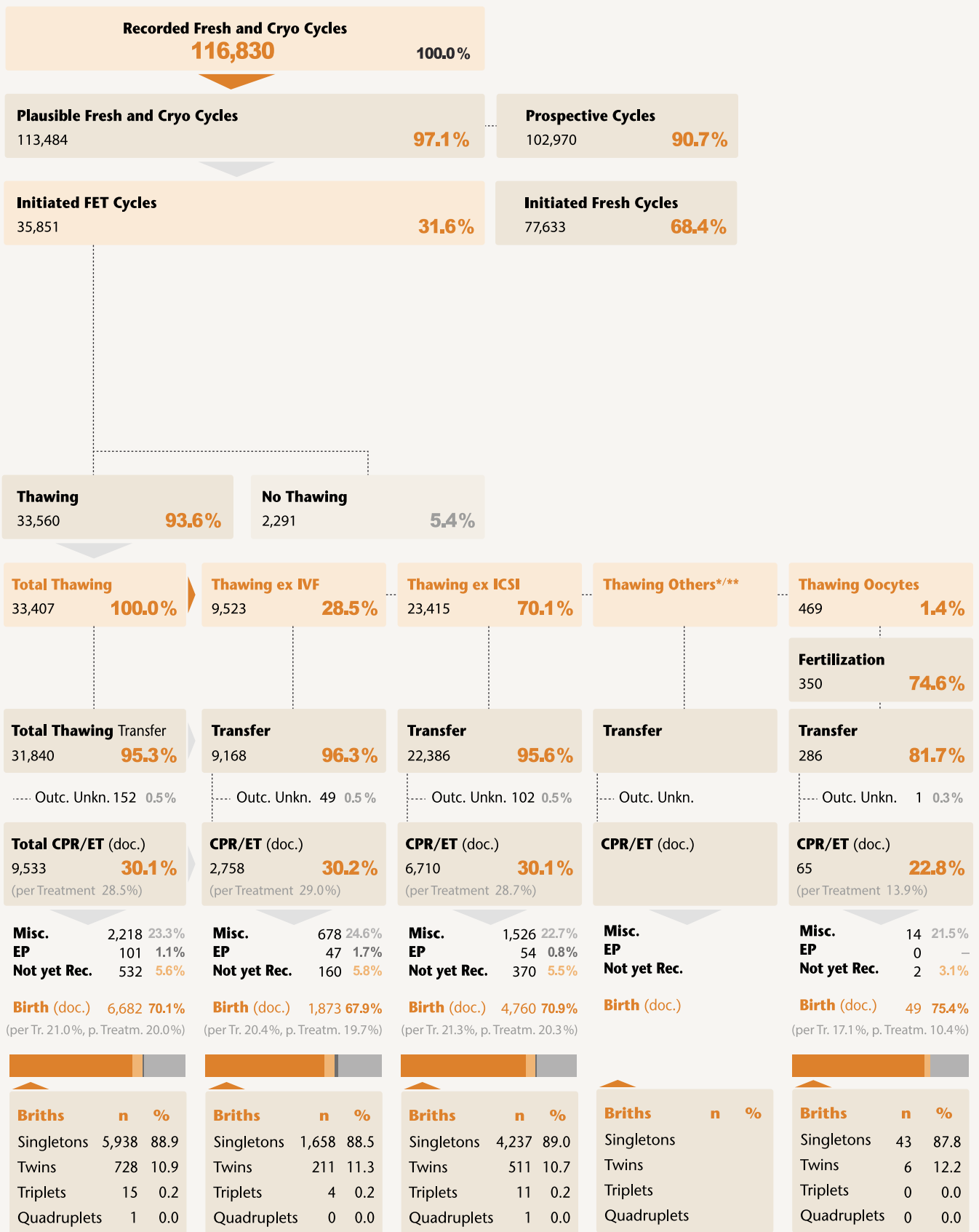
German IVF Registry – Prospective and Retrospective Data



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 \*\*) In one of the IVF-Softwares, there had been inconsistencies at thawing others. Thus, these data cannot be published.

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German IVF Registry – Prospective and Retrospective Data



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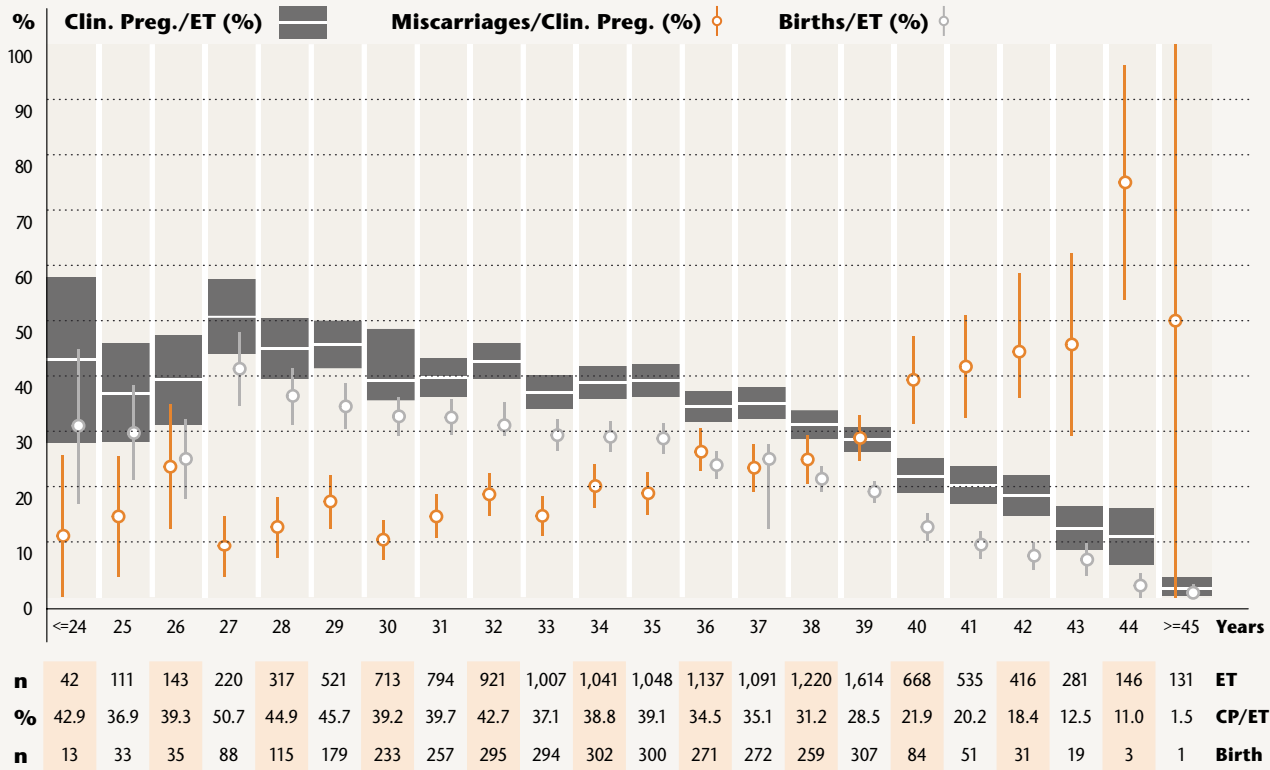




# Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2020

Prospective Data

## IVF 2020



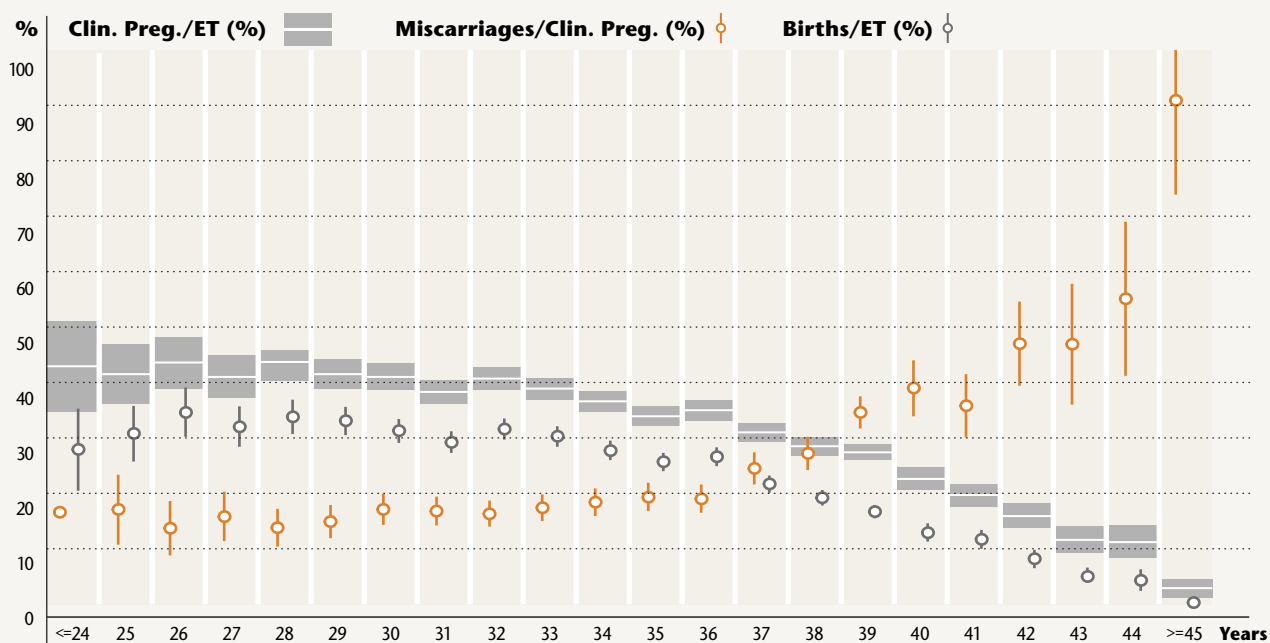
Age in Years	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Total
OPU	1,773	5,588	7,458	832	673	525	350	203	172	<b>17,574</b>
Oocytes <sup>1</sup>	11.5	10.5	8.3	6.7	6.5	5.7	5.0	5.0	3.9	<b>8.9</b>
Insemination <sup>1</sup>	11.3	10.4	8.1	6.6	6.4	5.6	4.9	5.0	3.9	<b>8.8</b>
ET	1,354	4,476	6,110	668	535	416	281	146	131	<b>14,117</b>
ET/OPU %	76.4	80.1	81.9	80.3	79.5	79.2	80.3	71.9	76.2	<b>80.3</b>
Trans. Embr. <sup>1</sup>	1.60	1.59	1.61	1.58	1.57	1.64	1.61	1.67	1.46	<b>1.60</b>
CP	601	1,761	2,017	145	108	76	35	16	2	<b>4,761</b>
CP/OPU %	33.9	31.5	27.0	17.4	16.0	14.5	10.0	7.9	1.2	<b>27.1</b>
CP/ET Upper Conf. Limit*%	47.5	40.9	34.3	25.1	23.6	22.1	16.4	16.1	3.6	<b>34.7</b>
<b>CP/ET %</b>	<b>44.8</b>	<b>39.4</b>	<b>33.2</b>	<b>21.9</b>	<b>20.2</b>	<b>18.4</b>	<b>12.5</b>	<b>11.0</b>	<b>1.5</b>	<b>33.9</b>
CP/ET Lower Conf. Limit*%	42.2	38.0	32.0	18.8	16.8	14.7	8.6	5.9	0.0	<b>33.1</b>
CP/ET %: 2 Embr. Transf. + min. 2 2PN Surplus	53.1	46.1	40.7	36.3	33.1	24.5	20.4	17.6	4.5	<b>42.8</b>
CP/ET %: 1 Embr. Transf. + min. 3 2PN Surplus	47.8	39.9	34.4	26.9	27.4	7.5	3.6	33.3	0.0	<b>36.7</b>
Misc./CP Upper Conf. Limit*%	17.8	17.8	26.4	47.3	51.0	58.6	62.2	96.2	100.0	<b>22.9</b>
<b>Misc./CP %</b>	<b>15.0</b>	<b>16.1</b>	<b>24.5</b>	<b>39.3</b>	<b>41.7</b>	<b>47.4</b>	<b>45.7</b>	<b>75.0</b>	<b>50.0</b>	<b>21.8</b>
Misc./CP Lower Conf. Limit*%	12.1	14.4	22.7	31.4	32.4	36.1	29.2	53.8	0.0	<b>20.6</b>
Births/ET Upper Conf. Limit*%	37.1	32.3	24.2	15.2	12.0	10.0	9.7	4.4	2.3	<b>25.2</b>
<b>Births/ET %</b>	<b>34.5</b>	<b>30.9</b>	<b>23.2</b>	<b>12.7</b>	<b>9.5</b>	<b>7.5</b>	<b>6.8</b>	<b>2.1</b>	<b>0.8</b>	<b>24.5</b>
Births/ET Lower Conf. Limit*%	32.0	29.6	22.1	10.2	7.0	5.0	3.8	0.0	0.0	<b>23.8</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 2020

Prospective Data

## ICSI 2020



n	139	324	437	633	919	1,348	1,741	2,068	2,331	2,471	2,583	2,671	2,592	2,752	2,924	3,710	1,606	1,383	1,042	699	437	376	<b>ET</b>
%	43.2	41.5	43.6	41.0	43.7	41.5	41.0	38.3	40.7	38.9	36.6	33.9	35.0	31.0	28.5	27.4	22.6	19.7	15.9	11.6	11.2	2.9	<b>CP/ET</b>
n	39	100	151	202	309	444	543	602	733	745	715	682	687	594	560	617	207	161	85	35	19	1	<b>Birth</b>

Age in Years	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Total
OPU	4,714	13,669	17,877	1,998	1,772	1,353	941	610	511	<b>43,445</b>
Oocytes <sup>1</sup>	12.3	11.1	8.8	7.3	6.6	6.1	5.3	4.5	3.9	<b>9.5</b>
Injection <sup>1</sup>	9.6	8.7	6.9	5.8	5.3	4.8	4.3	3.6	3.2	<b>7.4</b>
ET	3,800	11,194	14,649	1,606	1,383	1,042	699	437	376	<b>35,186</b>
ET/OPU %	80.6	81.9	81.9	80.4	78.0	77.0	74.3	71.6	73.6	<b>81.0</b>
Trans. Embr. <sup>1</sup>	1.65	1.63	1.62	1.65	1.61	1.62	1.63	1.63	1.59	<b>1.63</b>
CP	1,599	4,350	4,496	362	271	166	81	49	11	<b>11,385</b>
CP/OPU %	33.9	31.8	25.1	18.1	15.3	12.3	8.6	8.0	2.2	<b>26.2</b>
CP/ET Upper Conf. Limit* %	43.8	39.9	31.6	24.7	21.7	18.2	14.0	14.2	4.6	<b>33.0</b>
<b>CP/ET %</b>	<b>42.2</b>	<b>39.0</b>	<b>30.8</b>	<b>22.6</b>	<b>19.7</b>	<b>15.9</b>	<b>11.6</b>	<b>11.2</b>	<b>2.9</b>	<b>32.5</b>
CP/ET Lower Conf. Limit* %	40.7	38.1	30.1	20.6	17.6	13.7	9.2	8.3	1.2	<b>32.0</b>
CP/ET %: 2 Embr. Transf. + min. 2 2PN Surplus	48.2	45.9	37.1	28.8	26.7	24.4	17.8	25.8	4.8	<b>40.6</b>
CP/ET %: 1 Embr. Transf. + min. 3 2PN Surplus	41.1	39.6	33.8	26.4	27.7	26.7	13.5	14.3	20.0	<b>36.4</b>
Misc./CP Upper Conf. Limit* %	16.6	18.4	26.4	44.0	41.5	54.6	57.8	69.0	100.0	<b>22.8</b>
<b>Misc./CP %</b>	<b>14.9</b>	<b>17.2</b>	<b>25.1</b>	<b>39.0</b>	<b>35.8</b>	<b>47.0</b>	<b>46.9</b>	<b>55.1</b>	<b>90.9</b>	<b>22.0</b>
Misc./CP Lower Conf. Limit* %	13.1	16.1	23.9	33.9	30.1	39.4	36.0	41.2	73.9	<b>21.3</b>
Births/ET Upper Conf. Limit* %	34.4	30.8	22.2	14.6	13.4	9.8	6.6	6.3	0.8	<b>23.9</b>
<b>Births/ET %</b>	<b>32.9</b>	<b>29.9</b>	<b>21.5</b>	<b>12.9</b>	<b>11.7</b>	<b>8.2</b>	<b>5.0</b>	<b>4.3</b>	<b>0.3</b>	<b>23.5</b>
Births/ET Lower Conf. Limit* %	31.4	29.1	20.9	11.3	10.0	6.5	3.4	2.4	0.0	<b>23.0</b>

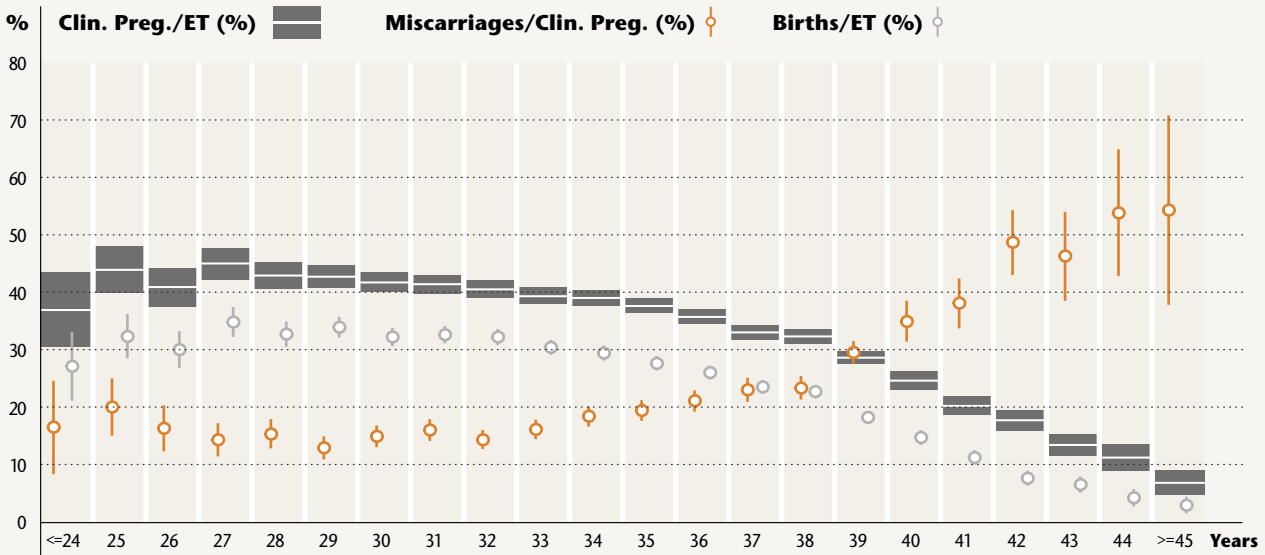
1) Mean  
\* With a 95%-probability, the true mean lies within the defined confidence interval.



# Pregnancy Rate and Ongoing Pregnancy as a Function of Female Age 2016 – 2020

Prospective Data

## IVF 2016 – 2020



n	214	569	818	1,282	1,795	2,541	3,252	3,577	4,175	4,568	4,780	5,037	5,079	4,800	5,127	7,203	2,831	2,418	1,716	1,196	697	513	<b>ET</b>
%	36.9	43.9	40.9	45.0	42.9	42.7	41.7	41.4	40.5	39.3	39.0	37.6	35.7	33.0	32.3	28.6	24.6	20.2	17.7	13.4	11.2	6.8	<b>CP/ET</b>
n	58	184	243	443	586	858	1,045	1,162	1,342	1,386	1,402	1,388	1,318	1,122	1,156	1,302	413	271	130	78	29	15	<b>Birth</b>

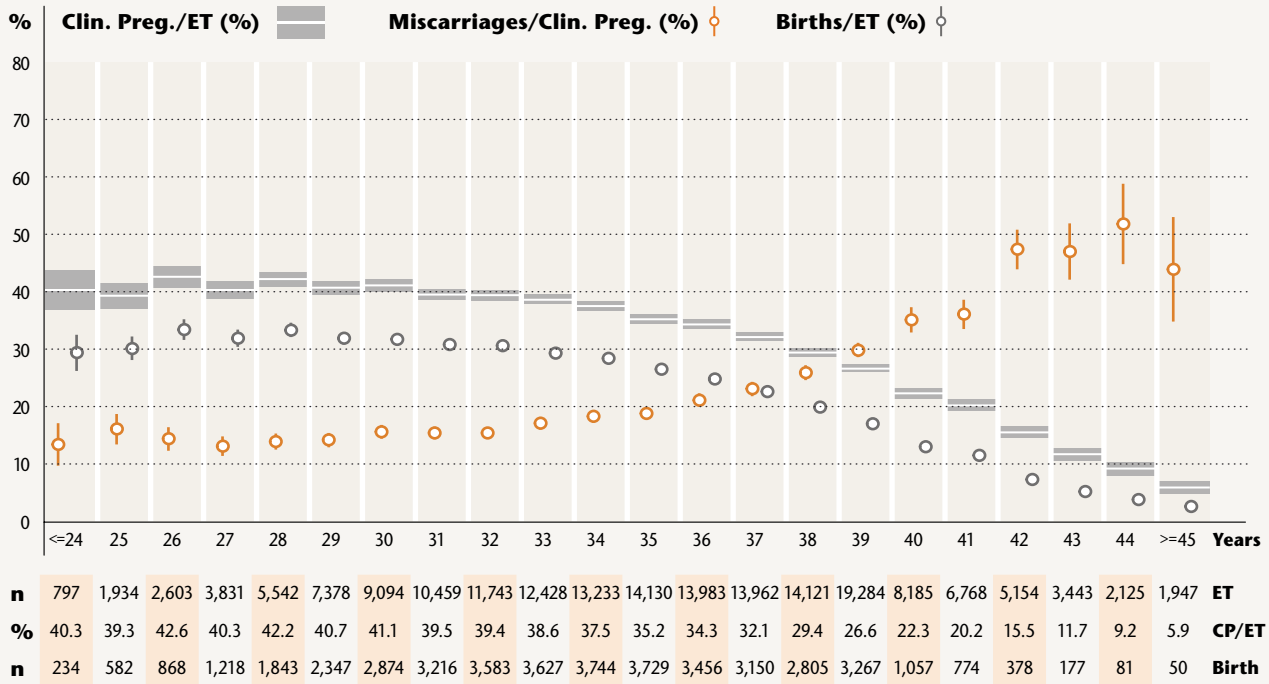
Alter in Jahren	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Gesamt
OPU	9,042	24,652	32,663	3,421	2,974	2,150	1,522	886	699	<b>78,009</b>
Oocytes <sup>1</sup>	11.8	10.6	8.5	6.9	6.7	6.0	5.3	5.2	4.2	<b>9.2</b>
Insemination <sup>1</sup>	11.3	10.2	8.1	6.6	6.3	5.8	5.2	5.1	4.2	<b>8.9</b>
Transfer	7,219	20,352	27,246	2,831	2,418	1,716	1,196	697	513	<b>64,188</b>
ET/OPU %	79.8	82.6	83.4	82.8	81.3	79.8	78.6	78.7	73.4	<b>32.3</b>
Trans. Embr. <sup>1</sup>	1.72	1.70	1.71	1.71	1.72	1.76	1.72	1.75	1.65	<b>1.71</b>
CP	3,082	8,166	8,978	693	486	302	160	78	35	<b>21,980</b>
CP/OPU %	34.1	33.1	27.5	20.3	16.3	14.0	10.5	8.8	5.0	<b>28.2</b>
CP/ET Upper Confidence Limit*%	44.0	40.9	33.6	26.2	21.8	19.5	15.3	13.6	9.0	<b>34.7</b>
<b>CP/ET %</b>	<b>42.9</b>	<b>40.2</b>	<b>33.1</b>	<b>24.6</b>	<b>20.2</b>	<b>17.7</b>	<b>13.4</b>	<b>11.2</b>	<b>6.8</b>	<b>34.2</b>
CP/ET Lower Confidence Limit*%	41.7	39.5	32.5	23.0	18.6	15.9	11.5	8.9	4.7	<b>34.0</b>
CP/ET %: 2 Embr. Transf. + min. 2 2PN Surplus	48.9	47.0	40.0	34.6	29.7	24.8	22.4	22.3	24.2	<b>42.7</b>
CP/ET %: 1 Embr. Transf. + min. 3 2PN Surplus	43.8	39.4	34.7	28.9	30.4	16.9	12.0	18.8	7.4	<b>36.8</b>
Misc./CP Upper Confidence Limit*%	16.0	16.8	24.3	38.5	42.4	54.3	54.0	64.9	70.8	<b>21.3</b>
<b>Misc./CP %</b>	<b>14.8</b>	<b>16.0</b>	<b>23.4</b>	<b>34.9</b>	<b>38.1</b>	<b>48.7</b>	<b>46.3</b>	<b>53.8</b>	<b>54.3</b>	<b>20.8</b>
Misc./CP Lower Confidence Limit*%	13.5	15.2	22.5	31.4	33.7	43.0	38.5	42.8	37.8	<b>20.3</b>
Births/ET Upper Confidence Limit*%	34.1	31.9	23.7	16.0	12.5	8.9	7.9	5.7	4.4	<b>25.2</b>
<b>Births/ET %</b>	<b>33.0</b>	<b>31.2</b>	<b>23.2</b>	<b>14.7</b>	<b>11.2</b>	<b>7.6</b>	<b>6.5</b>	<b>4.2</b>	<b>2.9</b>	<b>24.8</b>
Births/ET Lower Confidence Limit*%	31.9	30.6	22.7	13.4	10.0	6.3	5.1	2.7	1.5	<b>24.6</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 – 2020

Prospective Data

## ICSI 2016 – 2020



n	797	1,934	2,603	3,831	5,542	7,378	9,094	10,459	11,743	12,428	13,233	14,130	13,983	13,962	14,121	19,284	8,185	6,768	5,154	3,443	2,125	1,947	ET
%	40.3	39.3	42.6	40.3	42.2	40.7	41.1	39.5	39.4	38.6	37.5	35.2	34.3	32.1	29.4	26.6	22.3	20.2	15.5	11.7	9.2	5.9	CP/ET
n	234	582	868	1,218	1,843	2,347	2,874	3,216	3,583	3,627	3,744	3,729	3,456	3,150	2,805	3,267	1,057	774	378	177	81	50	Birth

Alter in Jahren	<= 29	30 – 34	35 – 39	40	41	42	43	44	>=45	Gesamt
OPU	26,307	66,952	88,990	9,978	8,353	6,479	4,513	2,775	2,691	<b>217,038</b>
Oocytes <sup>1</sup>	12.4	11.2	9.0	7.3	6.7	6.3	5.8	5.2	4.7	<b>9.7</b>
Insemination <sup>1</sup>	9.5	8.7	7.0	5.7	5.4	4.9	4.5	4.1	3.6	<b>7.5</b>
Transfer	22,085	56,957	75,480	8,185	6,768	5,154	3,443	2,125	1,947	<b>182,144</b>
ET/OPU %	84.0	85.1	84.8	82.0	81.0	79.5	76.3	76.6	72.4	<b>83.9</b>
Trans. Embr. <sup>1</sup>	1.76	1.74	1.74	1.75	1.75	1.72	1.74	1.72	1.70	<b>1.74</b>
CP	9,056	22,200	23,483	1,819	1,361	798	400	195	114	<b>59,426</b>
CP/OPU %	34.4	33.2	26.4	18.2	16.3	12.3	8.9	7.0	4.2	<b>27.4</b>
CP/ET Upper Confidence Limit* %	41.7	39.5	31.5	23.2	21.2	16.5	12.8	10.4	6.9	<b>32.9</b>
CP/ET %	<b>41.1</b>	<b>39.1</b>	<b>31.2</b>	<b>22.3</b>	<b>20.2</b>	<b>15.5</b>	<b>11.7</b>	<b>9.2</b>	<b>5.9</b>	<b>32.6</b>
CP/ET Lower Confidence Limit* %	40.4	38.7	30.9	21.4	19.2	14.5	10.6	8.0	4.8	<b>32.5</b>
CP/ET %: 2 Embr. Transf. + min. 2 2PN Surplus	45.7	44.5	38.4	29.1	28.1	23.1	16.7	18.7	16.2	<b>40.6</b>
CP/ET %: 1 Embr. Transf. + min. 3 2PN Surplus	39.8	39.9	32.7	27.5	25.2	22.0	17.8	25.3	24.5	<b>35.9</b>
Misc./CP Upper Confidence Limit* %	14.8	16.9	24.3	37.3	38.6	50.8	51.9	58.8	53.0	<b>21.1</b>
Misc./CP %	<b>14.1</b>	<b>16.4</b>	<b>23.7</b>	<b>35.1</b>	<b>36.1</b>	<b>47.4</b>	<b>47.0</b>	<b>51.8</b>	<b>43.9</b>	<b>20.8</b>
Misc./CP Lower Confidence Limit* %	13.3	15.9	23.2	32.9	33.5	43.9	42.1	44.8	34.8	<b>20.4</b>
Births/ET Upper Confidence Limit* %	32.8	30.4	22.1	13.7	12.2	8.1	5.9	4.6	3.3	<b>23.9</b>
Births/ET %	32.2	30.0	21.8	13.0	11.5	7.3	5.2	3.8	2.6	<b>23.6</b>
Births/ET Lower Confidence Limit* %	31.6	29.6	21.5	12.2	10.7	6.6	4.4	3.0	1.9	<b>23.5</b>

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 2020

## Prospective Data

### IVF 2020

	n	%	Fertilization %	Embryo %	Transfer %	Clin. Preg. %
Performed ICSI Treatm.	17,650	100.0				
Successful Fertilization*	16,153	91.5	100.0			
Freeze All Oocyte Culture	1,473	8.3	9.1			
Minimum 1 Embryo**	14,685	90.8	100.0	100.0		
ET Performed**	14,161	80.2	87.7	96.4	100.0	
Clin. Pregnancy	4,780	<b>27.1</b>	29.6	32.6	<b>33.8</b>	100.0
Birth	3,452	<b>19.6</b>	<b>21.4</b>	<b>23.5</b>	<b>24.4</b>	<b>72.2</b>
Miscarriage	1,025					21.4
Ectopic Pregnancy	77					1.6
Not Yet Recorded	226					4.7

### ICSI 2020

	n	%	Fertilisation %	Embryo vorh.%	Transfer %	Klin. SS %
Performed ICSI Treatm.	43,783	100.0				
Successful Fertilization*	40,955	93.5	100.0			
Freeze All Oocyte Culture	3,831	8.7	9.4			
Minimum 1 Embryo**	37,067	92.8	99.8	100.0		
ET Performed**	35,175	80.3	85.9	94.9	100.0	
Clin. Pregnancy	11,376	<b>26.0</b>	27.8	30.7	<b>32.3</b>	100.0
Birth	8,224	<b>18.8</b>	<b>20.1</b>	<b>22.2</b>	<b>23.4</b>	<b>72.3</b>
Miscarriage	2,456					21.6
Ectopic Pregnancy	132					1.2
Not Yet Recorded	564					5.0

### IVF and ICSI in Natural Cycles 2020\*\*

	n	%	Behandlung %	Fertilisation %	Embryo vorh. %	Transfer %	Klin. SS %
Started Cycles	2,530	100.0					
No Oocyte Treatment	799	31.6					
Treatm. in Natural Cycles***	1,731	68.4	100.0				
∅ Oocytes Retrieved	2,32						
Successful Fertilization*	1,376	54.4	79.5	100.0			
Freeze All Oocyte Culture	96	3.8	5.5	7.0			
Minimum 1 Embryo**	1,265	52.0	77.4	98.8	100.0		
ET Performed**	1,223	50.2	74.8	95.5	96.7	100.0	
Clin. Pregnancy	269	<b>10.6</b>	<b>15.5</b>	19.5	21.3	<b>22.0</b>	100.0
Birth	183	<b>7.2</b>	<b>10.6</b>	<b>13.3</b>	<b>14.5</b>	<b>15.0</b>	<b>68.0</b>
Miscarriage	66						24.5
Ectopic Pregnancy	4						1.5
Not Yet Recorded	16						5.9

\*) Successful fertilization of at least one oocyte per cycle.

\*\*) %-rates adjusted by freeze all oocytes culture.

\*\*\*) Evaluation for "Treatment without COHS" if "Yes, without any ovarian stimulation" or "Yes, with mild ovarian stimulation (e.g. with CC, letrozole, low dose FSH/HMG)" was documented manually.

# Results of Thawing-Cycles, TESE, IVF and ICSI with Donor Semen 2020



## Prospective Data

### Cryo Transfer Cycles 2020

	n	%	PN/Embryo %	Transfer %	Clin. Preg. %
Cryo Transfer Cycles	32,365	100.0			
Thawed PN/Embryo	31,924	98.6	100.0		
ET Performed	30,832	95.3	96.6	100.0	
Clin. Pregnancy	9,295	28.7	29.1	<b>30.1</b>	100.0
Birth	6,538	<b>20.2</b>	<b>20.5</b>	<b>21.2</b>	<b>70.3</b>
Miscarriage	2,171				23.4
Ectopic Pregnancy	99				1.1
Not Yet Recorded	487				5.2

### TESE 2020

	n	%	Fertilization %	Embryo %	Transfer %	Clin. Preg. %
Perf. ICSI/TESE Treatm.	2,089	100.0				
Successful Fertilization*	1,897	90.8	100.0			
Freeze All Oocyte Culture	211	10.1	11.1			
Minimum 1 Embryo**	1,653	88.0	98.0	100.0		
ET Performed**	1,548	74.1	81.6	93.6	100.0	
Clin. Pregnancy	483	23.1	25.5	29.2	<b>31.2</b>	100.0
Birth	357	<b>17.1</b>	<b>18.8</b>	<b>21.6</b>	<b>23.1</b>	<b>73.9</b>
Miscarriage	99					20.5
Ectopic Pregnancy	7					1.4
Not Yet Recorded	20					4.1

### IVF and ICSI with Donor Semen 2020

	n	%	Fertilization %	Embryo %	Transfer %	Clin. Preg. %
ART-Treatm. (donor sperm)	1,861	100.0				
Successful Fertilization*	1,788	96.1	100.0			
Freeze All Oocyte Culture	159	8.5	8.9			
Minimum 1 Embryo**	1,629	95.7	100.0	100.0		
ET Performed**	1,556	83.6	87.0	95.5	100.0	
Clin. Pregnancy	547	29.4	30.6	33.6	<b>35.2</b>	100.0
Birth	405	<b>21.8</b>	<b>22.7</b>	<b>24.9</b>	<b>26.0</b>	<b>74.0</b>
Miscarriage	126					23.0
Ectopic Pregnancy	4					0.7
Not Yet Recorded	12					2.2

\*) Successful fertilization of at least one oocyte per cycle.

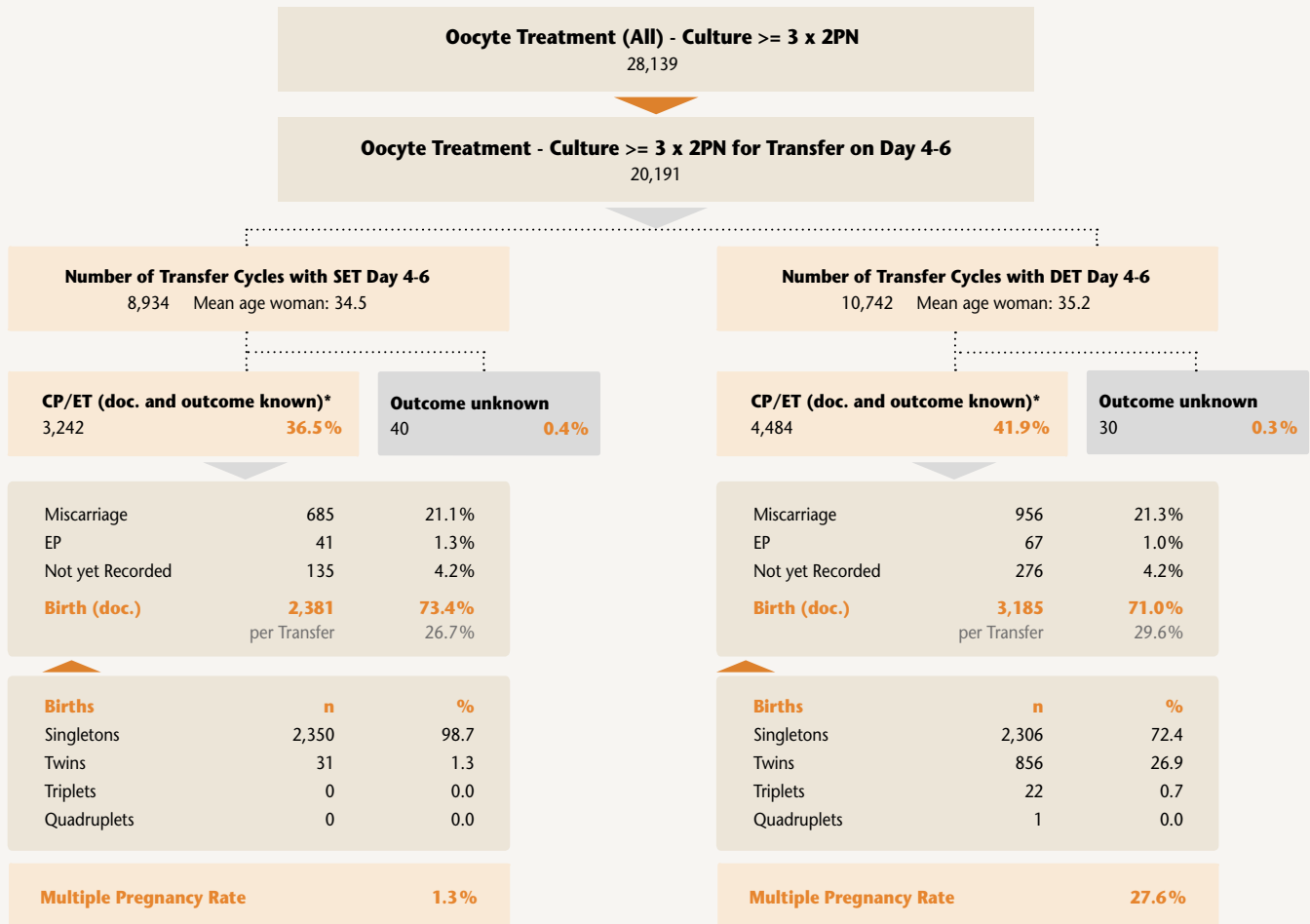
\*\*) %-rates up to fertilization adjusted by freeze all oocytes culture.



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

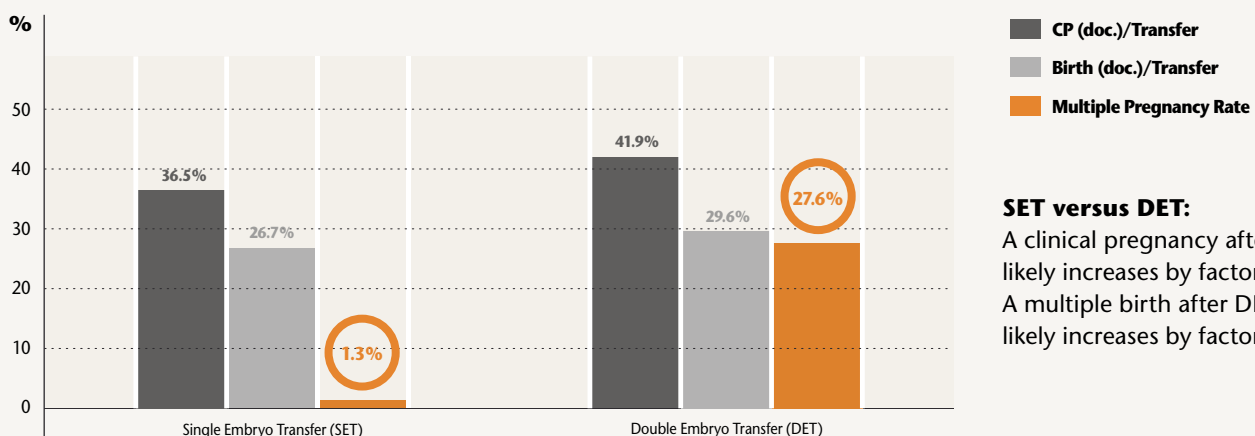
Prospective and Retrospective Data

Number of centers choosing  $\geq 3 \times 2PN$  for extended culture: n=128



\*) please note: documented clinical pregnancies (9,660) per transfer with outcome known (33,522) on other days than 4-6 (35,916): 28.8%

## Comparison SET and DET "German Middle Way" Fresh Cycles 2020

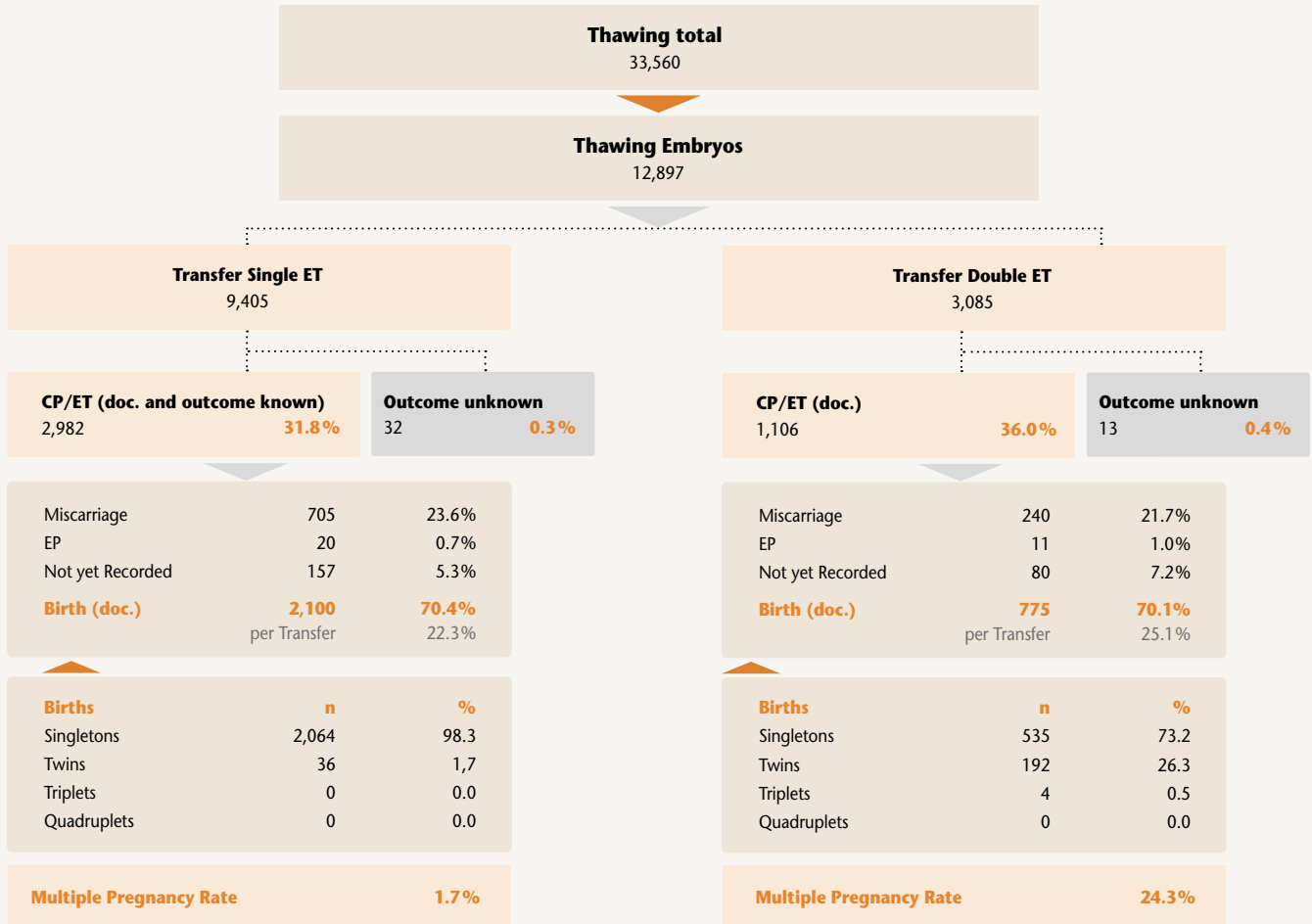


**SET versus DET:**  
 A clinical pregnancy after DET likely increases by factor 1.15.  
 A multiple birth after DET likely increases by factor 21.2.

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

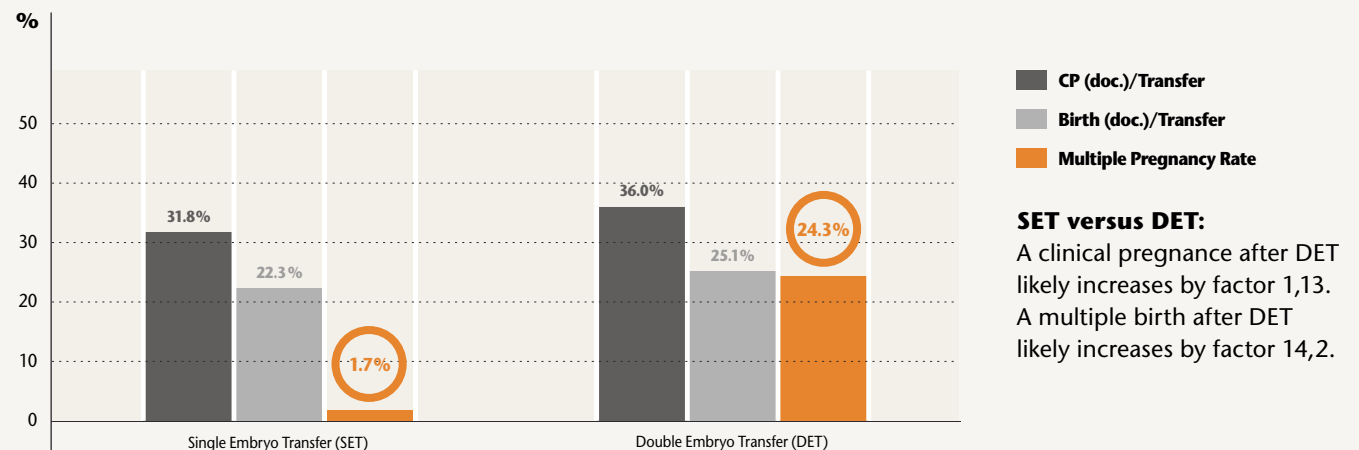
Prospective and Retrospective Data

Number of centers transferring previously cryopreserved embryos: n=129



Compared to thawing 2PNs:  
 Documented clinical pregnancies (5,430) / transfers with outcome known (19,068): 28.4%  
 - thereof day of transfer 2/3: documented clinical pregnancies (2,247) / transfers with outcome known (9,922): 22.6%  
 - thereof day of transfer 5/6: documented clinical pregnancies (2,803) / transfers with outcome known (7,735): 36.2%  
 - 1,411 transfers with 380 clinical pregnancies could not be allocated clearly

## Comparison SET and DET "German Middle Way" Thawing Cycles Embryos 2020





# Pregnancies Cumulative 2018 – 2020 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	12,548	5,313	42.3	2,529	927	36.7	6,240	<b>41.4</b>
2. Transfer	4,010	1,602	40.0	4,833	1,637	33.9	9,479	<b>62.9</b>
3. Transfer	1,846	682	36.9	2,699	879	32.6	11,040	<b>73.2</b>
4. Transfer	873	322	36.9	1,372	461	33.6	11,823	<b>78.4</b>
>4 Transfers	507	241	47.5	841	387	46.0	12,451	<b>82.6</b>
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	30,848	12,434	40.3	6,704	2,530	37.7	14,964	<b>39.8</b>
2. Transfer	10,245	3,836	37.4	12,032	3,999	33.2	22,799	<b>60.7</b>
3. Transfer	5,367	1,933	36.0	6,956	2,147	30.9	26,879	<b>71.6</b>
4. Transfer	2,628	917	34.9	3,718	1,093	29.4	28,889	<b>76.9</b>
>4 Transfers	1,756	730	41.6	2,467	1,135	46.0	30,754	<b>81.9</b>
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	35,822	11,611	32.4	6,776	2,222	32.8	13,833	<b>32.5</b>
2. Transfer	14,147	4,112	29.1	11,199	3,275	29.2	21,220	<b>49.8</b>
3. Transfer	7,735	2,194	28.4	6,455	1,736	26.9	25,150	<b>59.0</b>
4. Transfer	3,612	980	27.1	3,709	962	25.9	27,092	<b>63.6</b>
>4 Transfers	2,344	911	38.9	2,603	1,044	40.1	29,047	<b>68.2</b>
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	11,018	1,873	17.0	2,575	596	23.1	2,469	<b>18.2</b>
2. Transfer	4,402	691	15.7	2,583	474	18.4	3,634	<b>26.7</b>
3. Transfer	2,276	376	16.5	1,435	229	16.0	4,239	<b>31.2</b>
4. Transfer	1,152	175	15.2	732	113	15.4	4,527	<b>33.3</b>
>4 Transfers	702	156	22.2	540	138	25.6	4,821	<b>35.5</b>

As we did for the first time last year, we present cumulative chances after several cycles depending on age. Patients under 34 years of age have over an 80% chance of becoming pregnant after five transfers.

In patients between 35 and 39 years of age, 7 out of 10 patients achieve pregnancy after five cycles.

In patients aged 40 and over, the chances increase to "only" a good 35%. So even in a cumulative view, the age of our patients plays a decisive role.

These figures can help assess the chances during counselling.

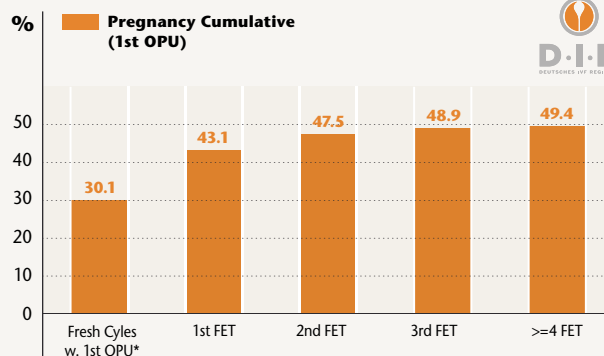
# Live Births Cumulative 2018 – 2020 Based on First OPU

## IVF, ICSI, Cryo Cycles – Prospective Data

This evaluation presents cumulative probability of having a child per puncture for the first time. In previous years, this was only calculated on pregnancies.

After first puncture, the chance of birth in Germany is just over 30%. Subsequent thawing transfers can increase birth rate to 50%.

And this is after only one puncture for oocyte retrieval!

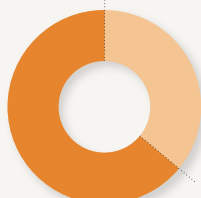


2017 – 2019 (Total)	1st OPU*	Cryo Cycles Based on 1st OPU	Live Births	Live Births/OPU / Live Births/FET (%)	Live Births Cumulative	Live Births/OPU Cumulative (%)
Fresh Cycles with 1st OPU*	30,779		9,271	30.1	9,271	30.1
1st Transfer (FET)		19,940	3,988	20.0	13,259	43.1
2nd Transfer (FET)		7,947	1,365	17.2	14,624	47.5
3rd Transfer (FET)		2,780	417	15.0	15,041	48.9
>= 4 Transfers (FET)		970	174	17.9	15,215	49.4
<b>1st OPU 2017</b>	<b>1st OPU*</b>	<b>Cryo Cycles Based on 1st OPU</b>	<b>Live Births</b>	<b>Live Births/OPU / Live Births/FET (%)</b>	<b>Live Births Cumulative</b>	<b>Live Births/OPU Cumulative (%)</b>
Fresh Cycles with 1st OPU*	10,234		3,068	30.0	3,068	30.0
1st Transfer (FET)		6,925	1,467	21.2	4,535	44.3
2nd Transfer (FET)		2,805	513	18.3	5,048	49.3
3rd Transfer (FET)		1,010	158	15.6	5,206	50.9
>= 4 Transfers (FET)		383	86	22.5	5,292	51.7
<b>1st OPU 2018</b>	<b>1st OPU*</b>	<b>Cryo Cycles Based on 1st OPU</b>	<b>Live Births</b>	<b>Live Births/OPU / Live Births/FET (%)</b>	<b>Live Births Cumulative</b>	<b>Live Births/OPU Cumulative (%)</b>
Fresh Cycles with 1st OPU*	10,339		3,167	30.6	3,167	30.6
1st Transfer (FET)		6,672	1,332	20.0	4,499	43.5
2nd Transfer (FET)		2,629	463	17.6	4,962	48.0
3rd Transfer (FET)		909	143	15.7	5,105	49.4
>= 4 Transfers (FET)		300	58	19.3	5,163	49.9
<b>1st OPU 2019</b>	<b>1st OPU*</b>	<b>Cryo Cycles Based on 1st OPU</b>	<b>Live Births</b>	<b>Live Births/OPU / Live Births/FET (%)</b>	<b>Live Births Cumulative</b>	<b>Live Births/OPU Cumulative (%)</b>
Fresh Cycles with 1st OPU*	10,206		3,036	29.7	3,036	29.7
1st Transfer (FET)		6,343	1,189	18.7	4,225	41.4
2nd Transfer (FET)		2,513	389	15.5	4,614	45.2
3rd Transfer (FET)		861	116	13.5	4,730	46.3
>= 4 Transfers (FET)		287	30	10.5	4,760	46.6

\* ) Cycles without fresh transfer (freeze all) and cycles without cryopreservation were excluded. Sample sizes: 1st OPU = 97,137; 1st OPU without freeze all = 86,168; Cycles without cryopreservation = 55,389; Cycles with Cryopreservation = 30,779.

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

1st OPUs WITHOUT Cryopreservation  
64%



1st OPUs WITH Cryopreservation  
36%



Only about 1/3 of all first follicle punctures are frozen at all. This is undoubtedly partly because the statutory health insurance funds do not cover the costs.

It would therefore be desirable if more patients took advantage of this option. Then, patients could benefit even more from additional opportunities offered by freezing and thawing. We assume that single embryo transfer will also lead to increased freezing in the future. According to the motto: 1 plus 1 is better than 2 plus 0!

## Positive Pregnancy Outcomes 2020



IVF, ICSI – Prospective and Retrospective Data

	Fresh Cycles		Cryo Cycles	
	n	%	n	%
Clinical Pregnancies	17,386	100.0	9,614	100.0
Outcome documented	17,171	98.8	9,462	98.4
Transfer	53,343		31,974	
Births	12,503		6,748	
Life-Birth-Rate/Birth	12,476	99.8	6,736	99.8
Life-Birth-Rate/ET	12,476	23.4	6,736	21.1
<b>SET Good Prognosis Patient*</b>				
Number of Transfers	2,030			
Life-Birth-Rate/ET	630	31.0		
Multiple Pregnancies	6	1.0		
<b>DET Good Prognosis Patient*</b>				
Number of Transfers	3,056			
Life-Birth-Rate/ET	1,119	36.6		
Number of Multiple Births	339	30.3		

## Loss of Pregnancy 2020

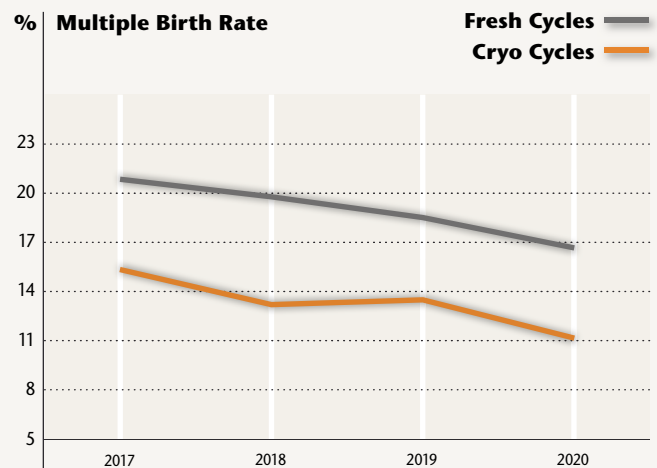
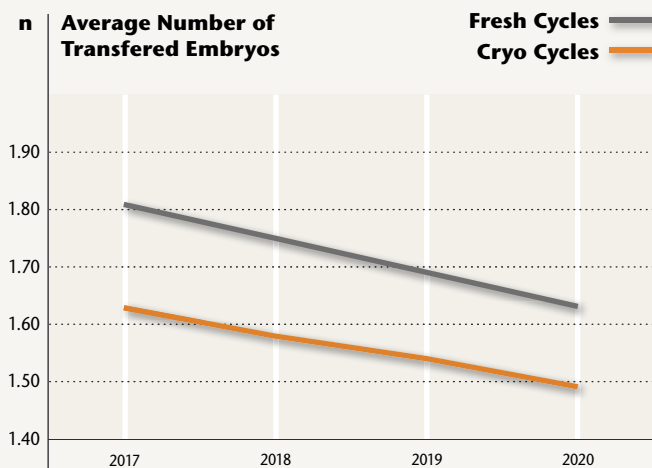


Prospective and Retrospective Data

	Fresh Cycles		Cryo Cycles	
	n	%	n	%
Clinical Pregnancies	17,386	100.0	9,614	100.0
Treatments with Known Cycle Outcome	17,171	98.8	9,462	98.4
Miscarriages	3,761	21.8	2,226	23.2
Among those: Induced Abortions	247	6.6	111	5.0
Stillbirths	27	0.2	12	0.1

## Embryos per Transfer<sup>1</sup> and Multiple Birth Rate 1997 – 2020

IVF, ICSI, Cryo – Prospective and Retrospective Data



		1997	[ ... ]	2017	2018	2019	2020
<b>Fresh Cycles</b>	∅ Number of Transf. Embryos	2.56		1.81	1.75	1.69	1.63
	Multiple Birth Rate	25.2	For values from 1998 to 2016 see www.deutsches-ivf-register.de	20.9	19.8	18.5	16.6
<b>Cryo Cycles</b>	∅ Number of Transf. Embryos	2.34		1.63	1.58	1.54	1.49
	Multiple Birth Rate	11.6		15.4	13.2	13.5	11.1

In recent years there has been a significant reduction in the multiple birth rate. This is thanks to the fact that many centers have successively reduced the number of embryos per transfer. The single embryo transfer has become increasingly widespread in Germany.

\*) Good prognosis patient in D-I-R: age <=35, fresh cycle, 1st cycle, oocytes retrieved >=8, 2PNs >=5, sperm collection anterograde  
1) Mean

# Oocyte Maturity Depending on Stimulation Protocol 2021



ICSI – Prospective and Retrospective Data

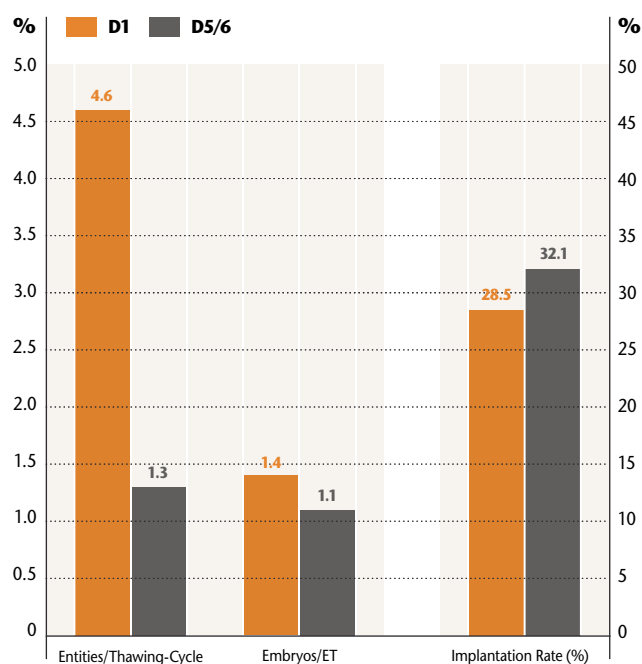
	OPU with Oocytes Maturity known	Mean Age	Oocytes Retrieved	Ooc. per Retrieval	Mature Oocytes	Mature Ooc. per Retrieval	2PN	2PN/Oocyte Retrieval	Embryos for ET	Gestational Sacs	Implant. Rate (%)
Agonist	7,355	36.0	65,527	8.9	47,902	6.5	31,653	4.3	9,713	2,152	22.2
Antagonist	34,272	35.2	331,325	9.7	243,393	7.1	163,962	4.8	41,281	9,599	23.3

## Cycles and Implantation-Rates with Transfer of Day 5/6 Embryos after Cryopreservation either on Culture Day 1 or Day 5/6 2021



Thawing – Prospective and Retrospective Data

	Freezing on Culture D1	Freezing on Culture D5/6
Thawing-Cycles resulting in ET	8,545	12,538
PN/Embryos Thawed	38,963	15,820
<b>Entities/Thawing-Cycle</b>	<b>4.6</b>	<b>1.3</b>
Re-Cryo of Embryos	3,025	24
Embryos Available for Transfer	12,331	13,794
Re-Cryo/Cycle	0.4	0.0
Transfer	8,545	12,538
Gestational Sacs (Intrauterine)	3,516	4,421
<b>Embryos/ET</b>	<b>1.4</b>	<b>1.1</b>
<b>Implantation Rate (%)</b>	<b>28.5</b>	<b>32.1</b>

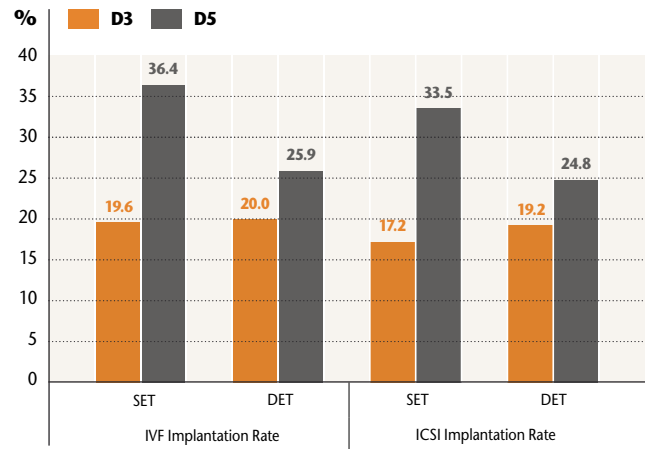




# Implantation Rates of D3- and D5-Embryos on Number of Embryos per Transfer 2021

IVF, ICSI – Prospective and Retrospective Data

	D3	D5	
<b>IVF</b>	<b>SET ImplRate %</b>	19.6	36.4
	SET ø Age Woman	36.0	34.9
	<b>DET ImplRate %</b>	20.0	25.9
	DET ø Age Woman	35.5	35.8
<b>ICSI</b>	<b>SET ImplRate %</b>	17.2	33.5
	SET ø Age Woman	36.3	34.7
	<b>DET ImplRate %</b>	19.2	24.8
	DET ø Age Woman	35.3	35.4

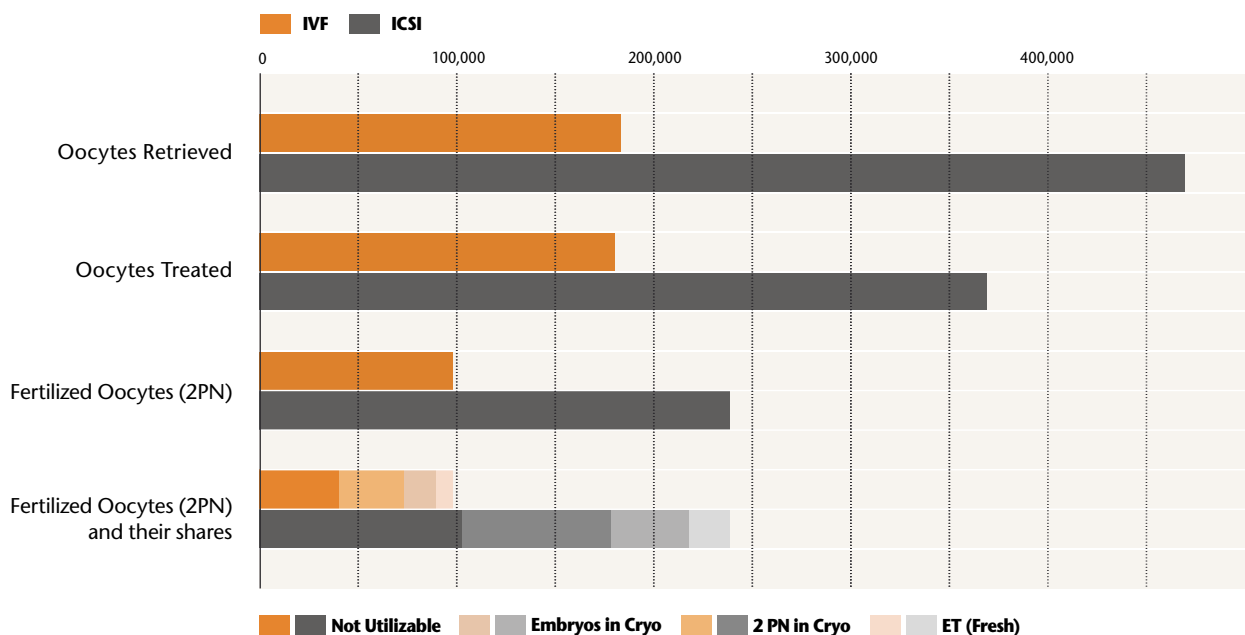


# Evolution of Retrieved Oocytes (IVF or ICSI) 2021



IVF, ICSI – Prospective and Retrospective Data

	IVF		%		ICSI		%	
Oocytes Retrieved	183,130	100.0			469,415	100.0		
Oocytes Treated	180,313	98.5	100.0		368,986	78.6	100.0	
Fertilized Oocytes (2PN)	98,159	53.6	54.4	100.0	238,532	50.8	64.6	100.0
2PN Cryopreserved	33,180			33.8	75,516			31.7
ET (Fresh)	16,499			16.8	39,743			16.7
Embryos Cryopreserved	8,252			8.4	20,591			8.6



# Clinical Pregnancies (CP)/Fresh Transfer as a Function of Embryo Quality 2021

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	331	17.5	1,190	15.5	1,748	11.5	827	6.2	4,096	12.1
0	2	295	27.6	912	23.7	1,365	19.0	539	12.3	3,111	20.0
0	3	1	0.0	13	23.1	23	13.0	23	4.3	60	11.7
1	0	2,147	38.8	6,456	37.8	8,514	29.2	3,405	15.3	20,522	30.6
1	1	366	40.2	1,262	37.8	1,751	28.9	746	17.8	4,125	30.6
1	2	2	50.0	11	27.3	31	22.6	37	5.6	81	16.3
2	0	2,032	48.9	6,123	46.3	8,409	39.2	3,183	23.0	19,747	39.8
2	1	4	25.0	21	30.0	61	33.8	59	16.9	145	26.9
3	0	9	25.0	66	33.8	164	29.3	228	20.5	467	25.6
<b>Total*</b>		<b>5,190</b>	<b>40.8</b>	<b>16,058</b>	<b>38.6</b>	<b>22,086</b>	<b>30.9</b>	<b>9,059</b>	<b>17.3</b>	<b>52,393</b>	<b>31.9</b>

\*) 39 transfers could not be allocated.

# Clinical Pregnancies (CP)/Frozen Transfer as a Function of Embryo Quality 2021

Cryo Transfer – Prospective Data

Quality		IVF		ICSI	
ideal	Not Ideal	ET	CP/ET %	ET	CP/ET %
0	1	569	15.8	1,334	14.7
0	2	430	18.1	1,125	19.2
0	3	18	5.6	38	18.4
1	0	5,449	30.7	11,986	32.4
1	1	626	29.7	1,515	28.6
1	2	14	7.1	42	29.3
2	0	2,905	36.3	6,584	34.1
2	1	20	15.8	60	13.3
3	0	76	28.9	164	35.6
<b>Total**</b>		<b>10,137</b>	<b>30.7</b>	<b>22,958</b>	<b>30.8</b>

\*\*\*) 140 transfers could not be allocated.

# Children as a Function of Week of Gestation (WoG) and Birth Weight (BW) 2020

Prospective and Retrospective Data

## IVF, ICSI, IVF/ICSI

Current WoG	20 - 26		27 - 31		32 - 37		38 - 41		≥ 42		Total	% of total
<b>Singletons (n and %)</b>	46	0.5	124	1.3	1,539	16.2	7,669	80.6	136	1.4	<b>9,514</b>	<b>73.2</b>
Average Birth Weight (g)	673		1,346		2,765		3,416		3,567		<b>3,273</b>	
<b>Twins (n and %)</b>	82	2.3	338	9.3	2,582	71.4	618	17.1	4	0.1	<b>3,618</b>	<b>27.8</b>
Average Birth Weight (g)	704		1,372		2,395		2,805		2,910		<b>2,333</b>	
<b>Triplets (n and %)</b>	18	17.1	24	22.9	63	60.0	-	-	-	-	<b>105</b>	<b>0.8</b>
Average Birth Weight (g)	778		1,424		1,832		-		-		<b>1,556</b>	

Percentage of preterm deliveries in singleton pregnancies is 18.0%.

Percentage of preterm deliveries in twin pregnancies is 83.0%.

Percentage of preterm deliveries in triplets pregnancies is 100.0%.

## Cryo Transfer

Current WoG	20 - 26		27 - 31		32 - 37		38 - 41		≥ 42		Total	% of total
<b>Singletons (n and %)</b>	28	0.5	50	0.9	756	13.9	4,448	81.8	156	2.9	<b>5,438</b>	<b>90.3</b>
Average Birth Weight (g)	654		1,242		2,866		3,555		3,694		<b>3,427</b>	
<b>Twins (n and %)</b>	30	2.3	60	4.6	928	71.6	274	21.1	4	0.3	<b>1,296</b>	<b>21.5</b>
Average Birth Weight (g)	698		1,364		2,487		2,899		3,173		<b>2,486</b>	
<b>Triplets (n and %)</b>	-	-	15	35.7	24	57.1	3	7.1	-	-	<b>42</b>	<b>0.7</b>
Average Birth Weight (g)	-		1,407		2,072		3,473		-		<b>1,931</b>	

Percentage of preterm deliveries in singleton pregnancies is 15.3%.

Percentage of preterm deliveries in twin pregnancies is 78.5%.

Percentage of preterm deliveries in triplets pregnancies is 92.9%.

# Children Born 1997–2020

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	14,580	67.2	6,800	31.3	321	1,5	8	0.0	21,709
2018	15,434	70.0	6,408	29.0	222	1,0	0	-	22,064
2019	15,935	70.8	6,310	28.0	261	1,2	0	-	22,506
2020	16,487	74.2	5,552	25.0	162	0,7	8	0.0	22,209
<b>Total</b>	<b>240,414</b>	<b>66.1</b>	<b>115,372</b>	<b>31.7</b>	<b>8,022</b>	<b>2,2</b>	<b>132</b>	<b>0.0</b>	<b>363,940</b>

**BOCHUM**  
Population of 364,454

**WUPPERTAL**  
Population of 355,004

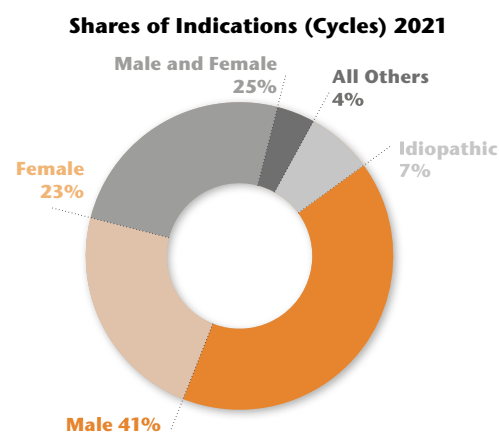
**363,940**  
Children born 1997–2020



# Distribution of Indications 2021

## IVF and ICSI – Prospective Data

	Treatments		Transfers		Clin. Preg.	
	n		n	%	n	%
No Information	849		743	87.5	250	34.8
Idiopathic	4,526		3,486	77.0	1,098	31.7
Male	27,432		22,174	80.8	7,306	33.1
Female	15,292		11,752	76.9	3,690	31.6
Male and Female	16,936		12,922	76.3	3,825	29.8
Missing Male Partner	1,115		908	81.4	261	29.1
Homosexuality	503		408	81.2	160	39.3
<b>Total</b>	<b>66,653</b>		<b>52,393</b>	<b>78.6</b>	<b>16,590</b>	<b>31.7</b>



## IVF

Male Factor	Normal		Red. Semen Quality		Unknown		Other**		Total***	
	n	%	n	%	n	%	n	%	n	%
<b>Female Factor</b>										
Normal	3,279	12.8	773	3.0	146	0.6	581	2.3	4,779	18.7
Tubal Pathology	3,011	11.8	487	1.9	81	0.3	516	2.0	4,095	16.0
Endometriosis	2,500	9.8	449	1.8	91	0.4	441	1.7	3,481	13.6
Hyperandrog./PCO	778	3.0	137	0.5	22	0.1	182	0.7	1,119	4.4
Ovulatory Dysf.	1,192	4.7	383	1.5	61	0.2	302	1.2	1,938	7.6
Psychogen. Factors	44	0.2	10	0.0	5	0.0	9	0.0	68	0.3
Age	1,312	5.1	318	1.2	57	0.2	274	1.1	1,961	7.7
Other*	4,952	19.4	1,166	4.6	176	0.7	1,215	4.7	7,509	29.3
No Information	493	1.9	92	0.4	5	0.0	49	0.2	639	2.5
<b>Total***</b>	<b>17,561</b>	<b>68.6</b>	<b>3,815</b>	<b>14.9</b>	<b>644</b>	<b>2.5</b>	<b>3,569</b>	<b>13.9</b>	<b>25,589</b>	<b>100.0</b>

## ICSI

Male Factor	Normal		Red. Semen Quality		Azoospermia		Unknown		Other**		Total***	
	n	%	n	%	n	%	n	%	n	%	n	%
<b>Female Factor</b>												
Normal	4,143	6.9	9,443	15.8	1,259	2.1	264	0.4	2,552	4.3	17,661	29.5
Tubal Pathology	1,253	2.1	2,007	3.4	92	0.2	47	0.1	837	1.4	4,236	7.1
Endometriosis	1,548	2.6	2,505	4.2	163	0.3	90	0.2	1,081	1.8	5,387	9.0
Hyperandrog./PCO	492	0.8	1,151	1.9	121	0.2	21	0.0	438	0.7	2,223	3.7
Ovulatory Dysf.	781	1.3	2,321	3.9	211	0.4	76	0.1	1,066	1.8	4,455	7.5
Psychogen. Factors	37	0.1	47	0.1	6	0.0	0	0.0	27	0.0	117	0.2
Age	1,289	2.2	2,262	3.8	246	0.4	100	0.2	948	1.6	4,845	8.1
Other*	6,772	11.3	7,714	12.9	770	1.3	264	0.4	3,697	6.2	19,217	32.1
No Information	842	1.4	555	0.9	78	0.1	13	0.0	146	0.2	1,634	2.7
<b>Total***</b>	<b>17,157</b>	<b>28.7</b>	<b>28,005</b>	<b>46.9</b>	<b>2,946</b>	<b>4.9</b>	<b>875</b>	<b>1.5</b>	<b>10,792</b>	<b>18.1</b>	<b>59,775</b>	<b>100.0</b>

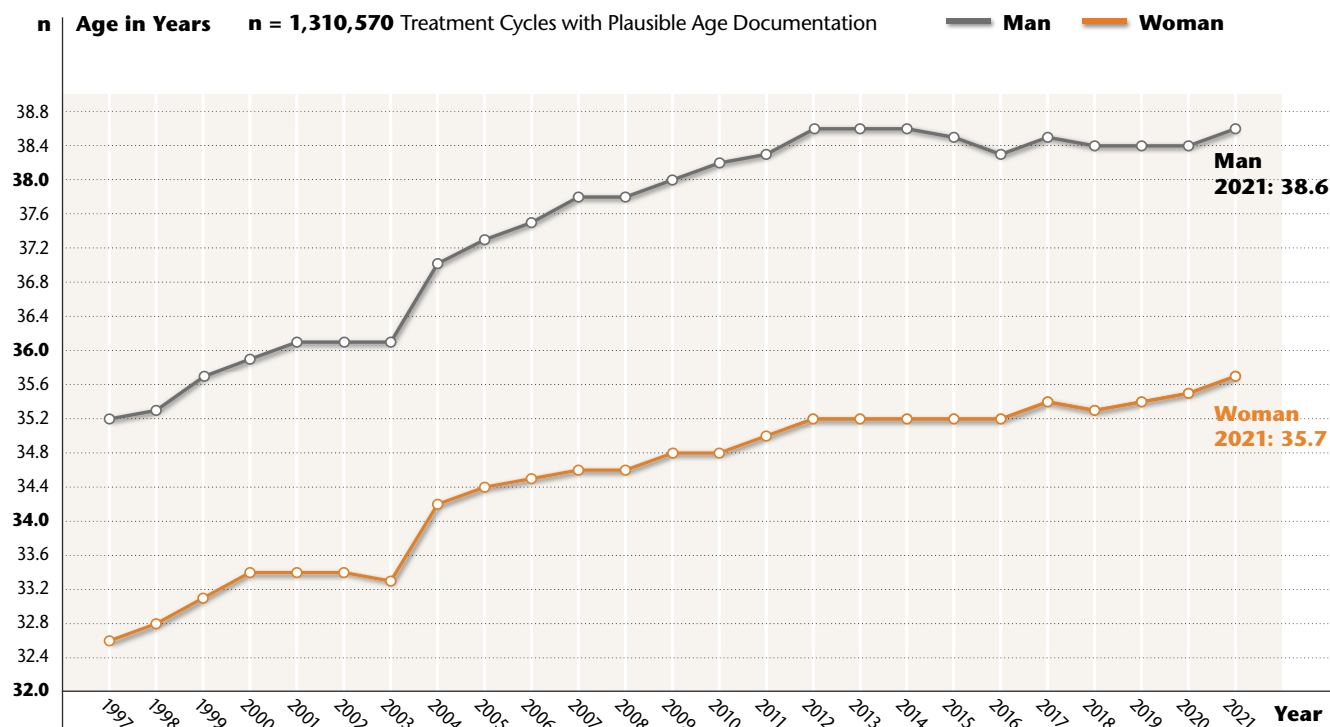
\*) This includes the following indications: medical freezing, genetic testing (polar body analysis, trophoctoderm biopsy for PGT-A, PGT-SR, PGT-M), homosexuality, diminished ovarian reserve, social freezing, uterine or cervical factor, single women, others).

\*\*) 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 – 2021

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



# Social Freezing 2018 – 2021

Fresh Cycles – Prospective and Retrospective Data

	2018	2019	2020	2021
No. of Centers	86	90	104	113
Recorded Cycles	969	1,182	1,602	2,258
Plausible Cycles	963	1,172	1,555	2,170
Plausible Cycles %	99.4	99.2	97.1	96.1
Ø-Age of Patients	35.5	35.6	35.6	35.7
OPU	903	1,088	1,442	2,010
Oocytes Aspirated	878	1,054	1,401	1,954
Avg. Oocytes Aspirated / Cycle	10.3	10.6	10.6	10.8
Freeze All MII	791	969	1,291	1,809
Share (%) of Cycles with Cryo-preserved from Retrieved Oocysts	73.7	76.6	76.4	76.7

Either therapy or patient are marked as social freezing.

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

# 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)	27,064	8,733	19,645	6,858	2,547	857	4,267	3,526	1,974	75,471
Transfers (n)	19,420	5,557	13,840	4,617	1,656	567	2,061	2,724	1,164	51,606
Transfer (%)	71.8	63.6	70.5	67.3	65.0	66.2	48.3	77.3	59.0	68.4
CP (n)	6,837	1,507	4,460	1,235	446	222	423	924	356	16,410
CP/ET (%)	35.2	27.1	32.2	26.7	26.9	39.2	20.5	33.9	30.6	31.8
CP/Stim. (%)	25.3	17.3	22.7	18.0	17.5	25.9	9.9	26.2	18.0	21.7
Ø-Age of Patients	34.0	37.7	35.7	36.6	37.0	34.2	38.8	35.7	36.2	35.6

Short GnRH <sub>a</sub>	recFSH	hMG	recFSH a. recLH	recFSH a. hMG	Long-Acting recFSH	hrFSH	Antiestrogen +/- Gonadotropin	Other*	No Inform.	Total	Share (%) from total
Stimulations (n)	278	456	670	561	16	15	119	53	59	2,227	3.0
Transfers (n)	182	274	444	329	9	9	33	36	45	1,361	2.6
Transfer (%)	65.5	60.1	66.3	58.6	56.3	60.0	27.7	67.9	76.3	61.1	
CP (n)	44	66	112	75	3	4	4	11	17	336	2.0
CP/ET (%)	24.2	24.1	25.2	22.8	33.3	44.4	12.1	30.6	37.8	24.7	
CP/Stim. (%)	15.8	14.5	16.7	13.4	18.8	26.7	3.4	20.8	28.8	15.1	
Ø-Age of Patients	35.9	38.4	36.9	37.8	37.9	34.0	38.9	39.0	34.6	37.4	

Long GnRH <sub>a</sub>	recFSH	hMG	recFSH a. recLH	recFSH a. hMG	Long-Acting recFSH	hrFSH	Antiestrogen +/- Gonadotropin	Other*	No Inform.	Total	Share (%) from total
Stimulations (n)	2,479	1,659	3,132	1,407	263	35	34	501	395	9,905	13.1
Transfers (n)	1,965	1,231	2,373	1,069	172	26	14	395	254	7,499	14.5
Transfer (%)	79.3	74.2	75.8	76.0	65.4	74.3	41.2	78.8	64.3	75.7	
CP (n)	694	369	767	310	52	8	3	125	75	2,403	14.6
CP/ET (%)	35.3	30.0	32.3	29.0	30.2	30.8	21.4	31.6	29.5	32.0	
CP/Stim. (%)	28.0	22.2	24.5	22.0	19.8	22.9	8.8	25.0	19.0	24.3	
Ø-Age of Patients	34.4	37.3	35.7	36.4	38.1	36.6	38.5	36.5	37.5	35.9	

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)	22,681	5,805	14,773	4,546	2,092	699	2,801	2,667	1,236	57,300	75.9
Transfers (n)	16,505	3,646	10,471	3,062	1,394	464	1,544	2,066	713	39,865	77.2
Transfer (%)	72.8	62.8	70.9	67.4	66.6	66.4	55.1	77.5	57.7	69.6	
CP (n)	5,864	976	3,415	816	366	182	324	711	230	12,884	78.5
CP/ET (%)	35.5	26.8	32.6	26.6	26.3	39.2	21.0	34.4	32.3	32.3	
CP/Stim. (%)	25.9	16.8	23.1	17.9	17.5	26.0	11.6	26.7	18.6	22.5	
Ø-Age of Patients	33.9	37.8	35.6	36.5	36.9	34.0	39.0	35.6	35.8	35.4	

4,991 stimulations (6.6%) have been realized without Analoga or Antagonists, resulting in 2,115 transfers (42.4%) and 582 clinical pregnancies (27.5% CP/ET).

1,048 stimulations (1.4%) could not be allocated to a specific protocol, resulting in 766 transfers (73.1%) and 205 clinical pregnancies (26.8% CP/ET).

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

# Ovarian Hyperstimulation Syndrome (OHSS) as a Function of Stimulation Protocol and Age Cohort 2021

IVF, ICSI, IVF/ICSI – Prospective Data

	Stimulations Started	%	Oocytes Retrieved	OHSS III (WHO)	OHSS III/Cycles %
<b>Short GnRHa</b>	<b>2,227</b>	<b>3.0</b>	<b>6.8</b>	<b>2</b>	<b>0.1</b>
<= 29 Years	114		10.4	0	0.0
30 – 34 Years	403		8.2	0	0.0
35 – 39 Years	1,026		7.0	2	0.2
>= 40 Years	684		4.9	0	0.0
<b>Long GnRHa</b>	<b>9,905</b>	<b>13.3</b>	<b>9.0</b>	<b>64</b>	<b>0.6</b>
<= 29 Years	756		11.4	14	1.9
30 – 34 Years	2,747		10.5	31	1.1
35 – 39 Years	4,534		8.5	18	0.4
>= 40 Years	1,868		6.9	1	0.1
<b>GnRHa-Antagonists</b>	<b>57,300</b>	<b>77.0</b>	<b>9.4</b>	<b>261</b>	<b>0.5</b>
<= 29 Years	6,062		12.2	47	0.8
30 – 34 Years	17,609		11.0	107	0.6
35 – 39 Years	23,621		8.9	87	0.4
>= 40 Years	10,008		6.1	20	0.2
<b>No Analoga / no Antagonists</b>	<b>4,991</b>	<b>6.7</b>	<b>6.4</b>	<b>11</b>	<b>0.2</b>
<= 29 Years	421		11.5	0	0.0
30 – 34 Years	1,210		8.9	3	0.2
35 – 39 Years	2,014		6.3	6	0.3
>= 40 Years	1,346		3.2	2	0.1
<b>Total*</b>	<b>74,423</b>	<b>100</b>	<b>9.1</b>	<b>338</b>	<b>0.5</b>

\*) in 1,048 cycles, the protocol could not be reliably determined

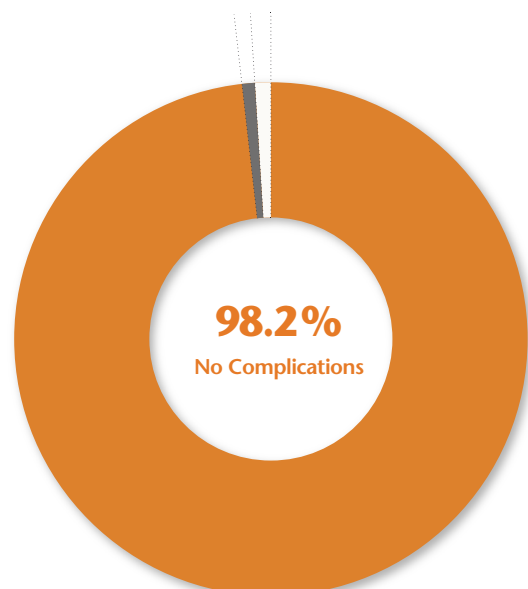
# Complications as a Function of Ovum Pick-up (OPU) 2021

IVF, ICSI, IVF/ICSI, Prospective Data

Total OPU's		70,545	100.0%
No Information		725	1.0%
No Complications		69,292	98.2%
<b>Complications</b>		<b>528</b>	<b>0.8%</b>

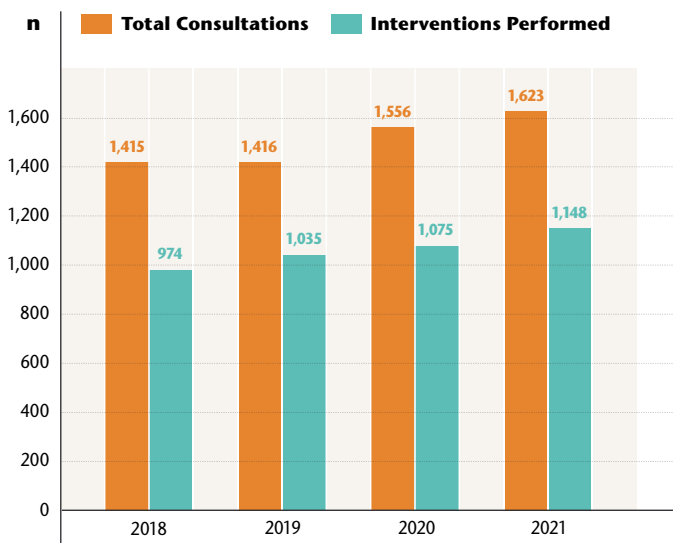
Complications	n	%
Vaginal Bleeding	346	65.5
Intraabdom. Bleeding	92	17.4
Intestinal Tract Injury	3	0.6
Peritonitis	23	4.4
Other	64	12.1
<b>Total</b>	<b>528</b>	<b>100.0</b>



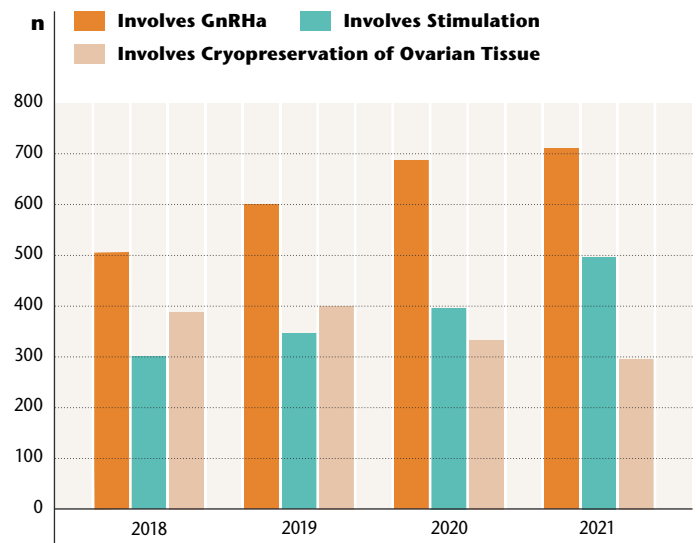
Once again this year, we are pleased to present the consultations and therapies for medically indicated fertility preservation documented in the *FertiPROTEKT* Network e.V. in comparison to previous years. The listing of the individual entities and therapies performed gives you a good impression of the activity of the network and also shows the increasing awareness of this intervention among those affected and the treating physicians. The implementation of the Fertility Protection Coverage Act

continues to be part of a larger debate between patients, physicians and insurance interests. It remains to be seen whether the partial reimbursement of costs to date will also have an impact on the number of procedures performed. On the positive side, this debate is also increasing the visibility of the topic in the media, so that patients and physicians may request or offer counseling more frequently.

Consultations and Interventions – *FertiPROTEKT* Netzwerk e.V.



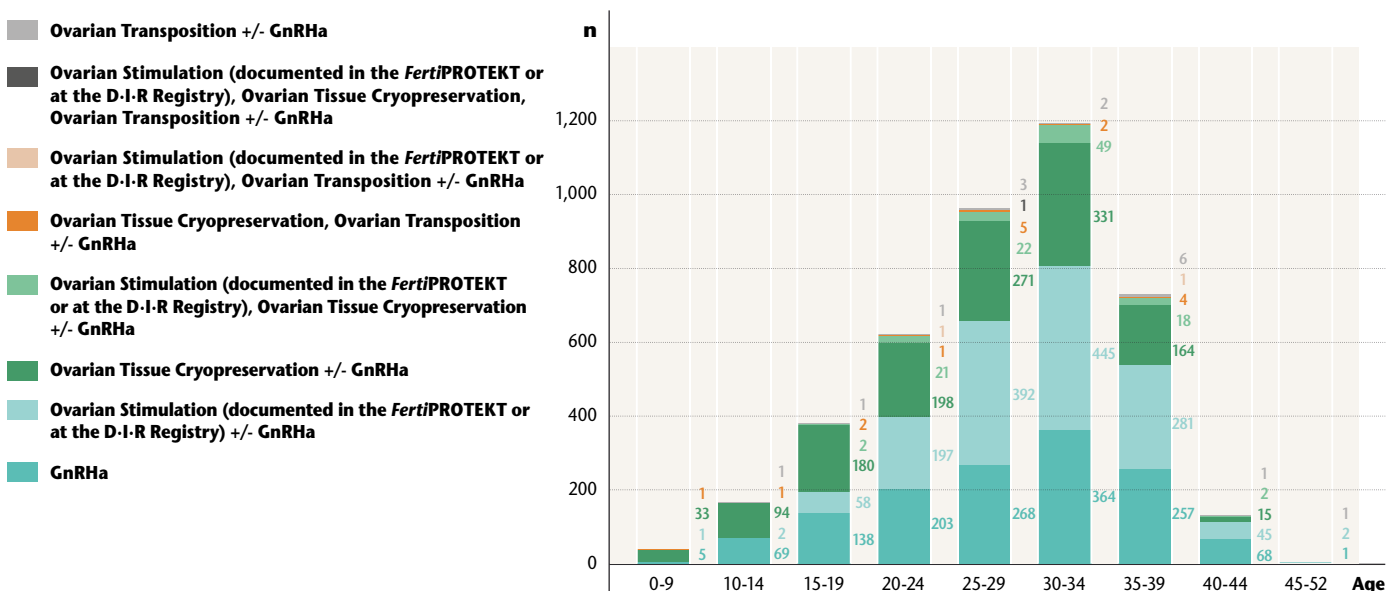
Distribution of Fertility-Protective Interventions



The number of consultations and interventions documented in *FertiPROTEKT* Netzwerk e.V. continued to increase in 2021 compared to previous years. While the number of ovarian stimulations performed and the use of GnRH agonists increased,

we continue to see a slight downward trend in the cryopreservation of ovarian tissue. This could be related to the lack of reimbursement for this measure in the context of simultaneously subsidized costs of stimulations.

Interventions Carried out by Age Group 2018 – 2021



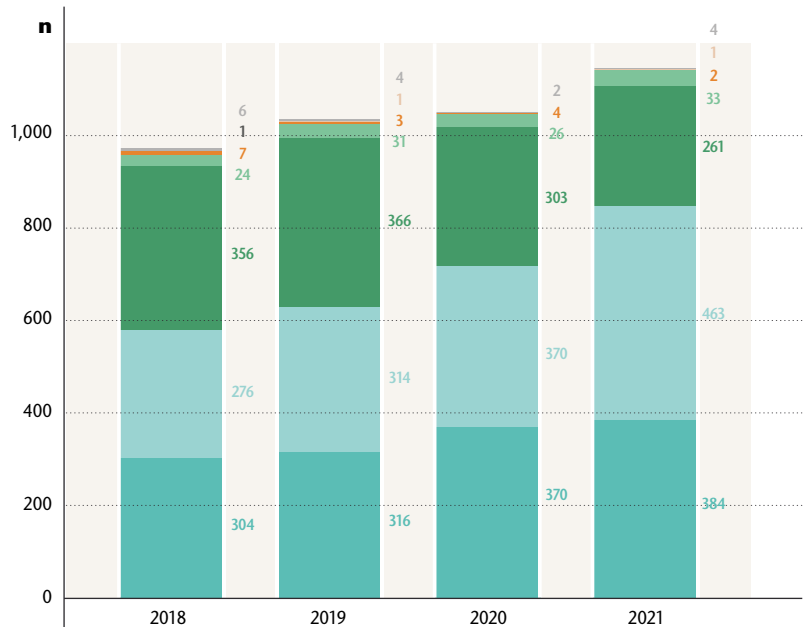
The age distribution of the patients according to the type of intervention in the last three years shows, as expected, a therapy maximum up to the age of 40, the more probable end of the fertile phase and the desire to have children. The most commonly performed interventions here remain ovarian stimulation, followed by GnRH agonist administration and ovarian tissue cryopreservation. The combination of cryopreservation and stimulation is significantly less common than the addition of a GnRH agonist to another procedure.

ulation, followed by GnRH agonist administration and ovarian tissue cryopreservation. The combination of cryopreservation and stimulation is significantly less common than the addition of a GnRH agonist to another procedure.

### Interventions by year



- Ovarian Transposition +/- GnRHa
- Ovarian Stimulation (documented in the FertiPROTEKT or at the D-I-R Registry), Ovarian Tissue Cryopreservation, Ovarian Transposition +/- GnRHa
- Ovarian Stimulation (documented in the FertiPROTEKT or at the D-I-R Registry), Ovarian Transposition +/- GnRHa
- Ovarian Tissue Cryopreservation, Ovarian Transposition +/- GnRHa
- Ovarian Stimulation (documented in the FertiPROTEKT or at the D-I-R Registry), Ovarian Tissue Cryopreservation +/- GnRHa
- Ovarian Tissue Cryopreservation +/- GnRHa
- Ovarian Stimulation (documented in the FertiPROTEKT or at the D-I-R Registry) +/- GnRHa
- GnRHa



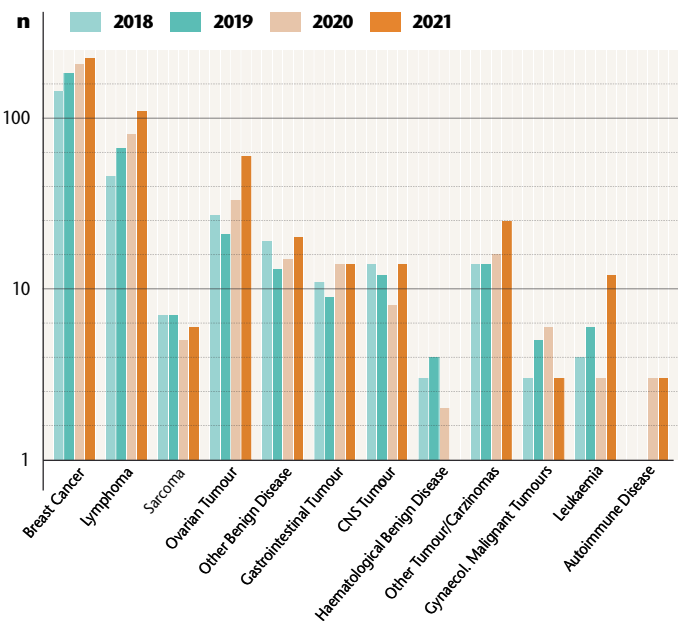
When looking at the therapies performed depending on the underlying disease, there is an overall lower rate of cryopreservation of ovarian tissue in oncological diseases, while this

has slightly increased in benign hematological diseases, with a simultaneous decrease in stimulation treatments. This is partly due to the increasing proportion of women with aplastic anemia.

### Underlying Disease at Time of Ovarian Stimulation



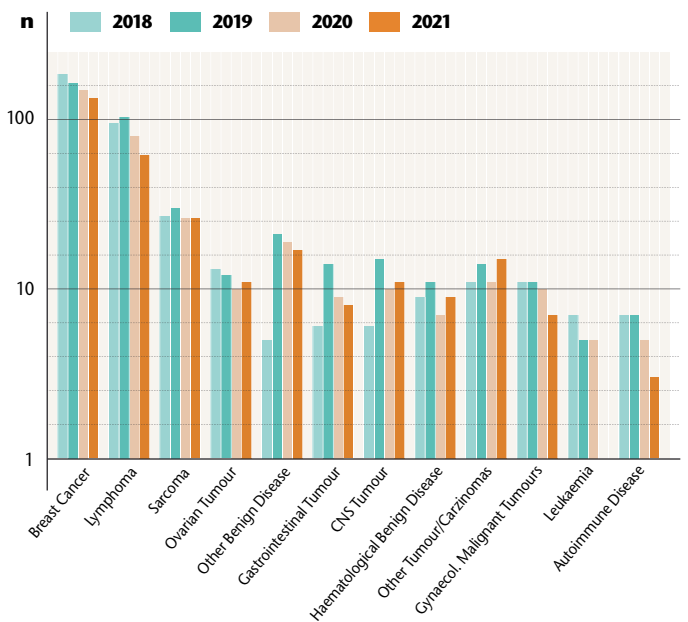
Logarithmic Scale



### Underlying Disease at Time of Ovarian Tissue Cryopreservation



Logarithmic Scale



# Deutsches IVF-Register e.V. (D-I-R)<sup>®</sup>

## List of D-I-R Members

Sorted by postal code in ascending order – as at August 2022

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