

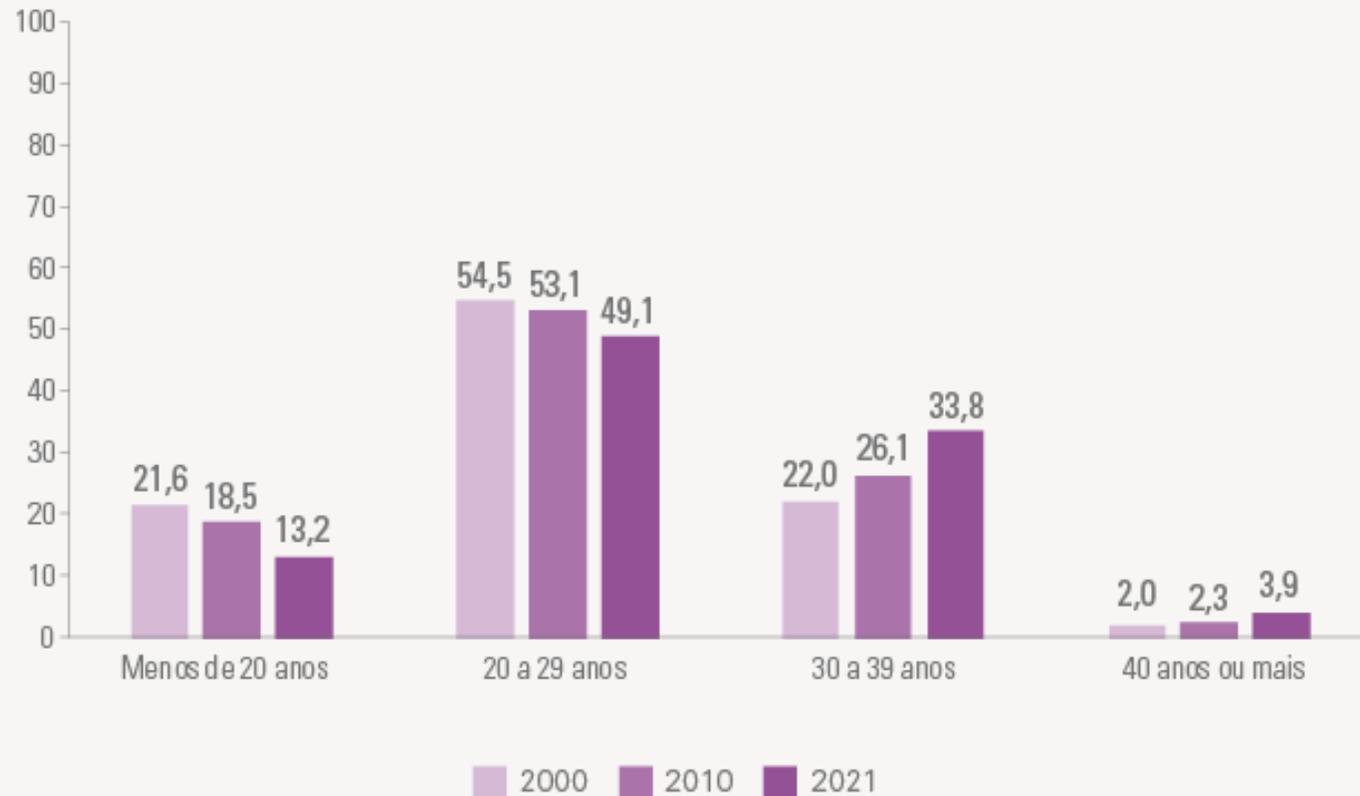


# *Preservação da Fertilidade*

## *Estratégias e Esquemas de Estímulo*

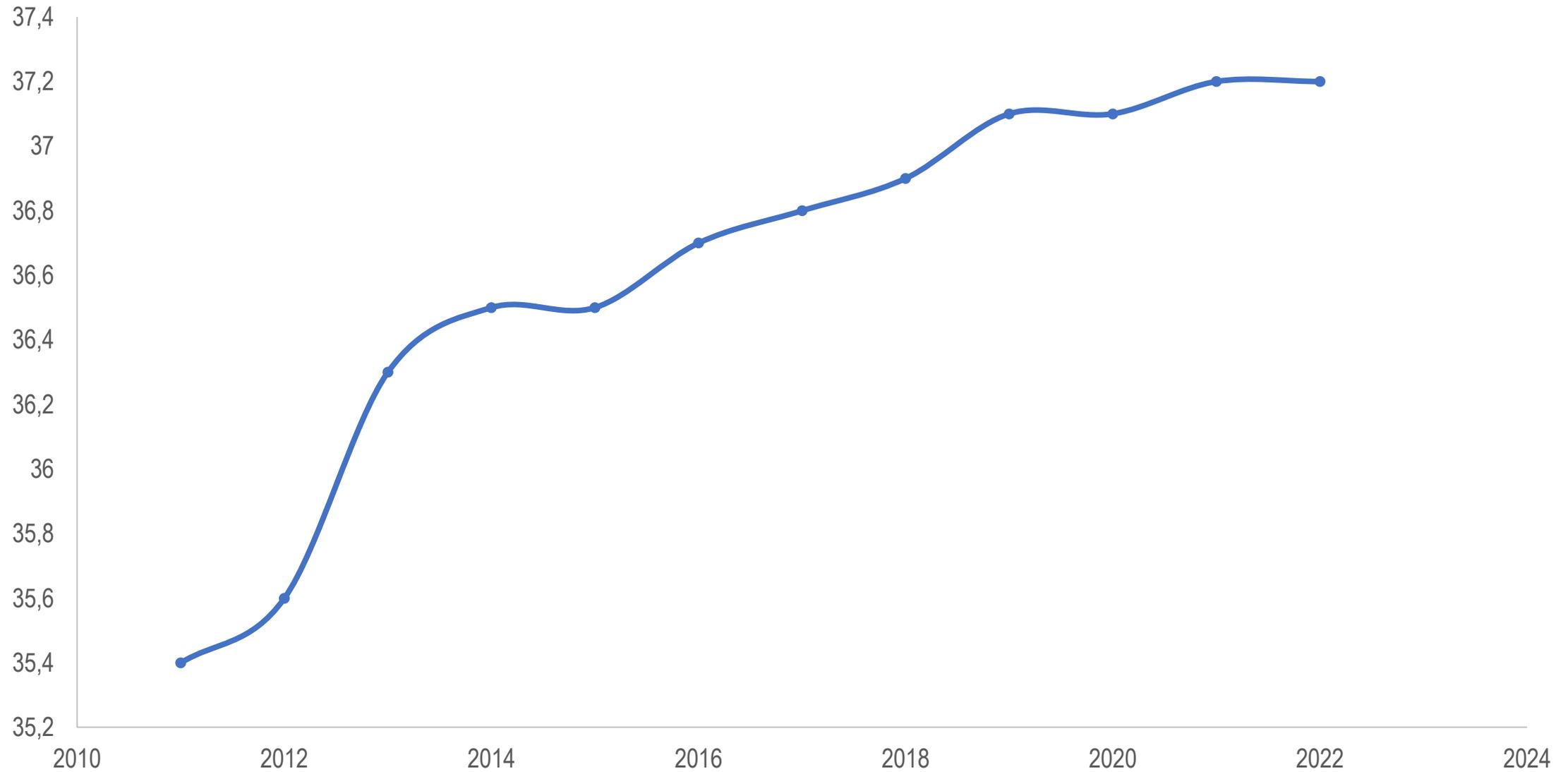
*Edson Borges Jr.*

## Distribuição dos nascimentos ocorridos no ano e registrados (%) Segundo os grupos de idade da mãe | Brasil



Fonte: Estatísticas do Registro Civil - 2000/2021

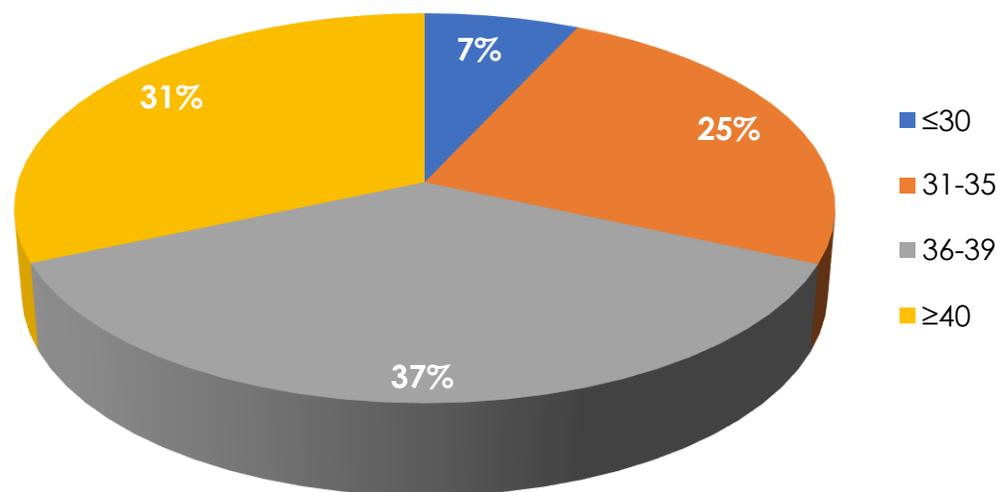
# Idade materna em ciclos de ICSI de 2010 a 2022



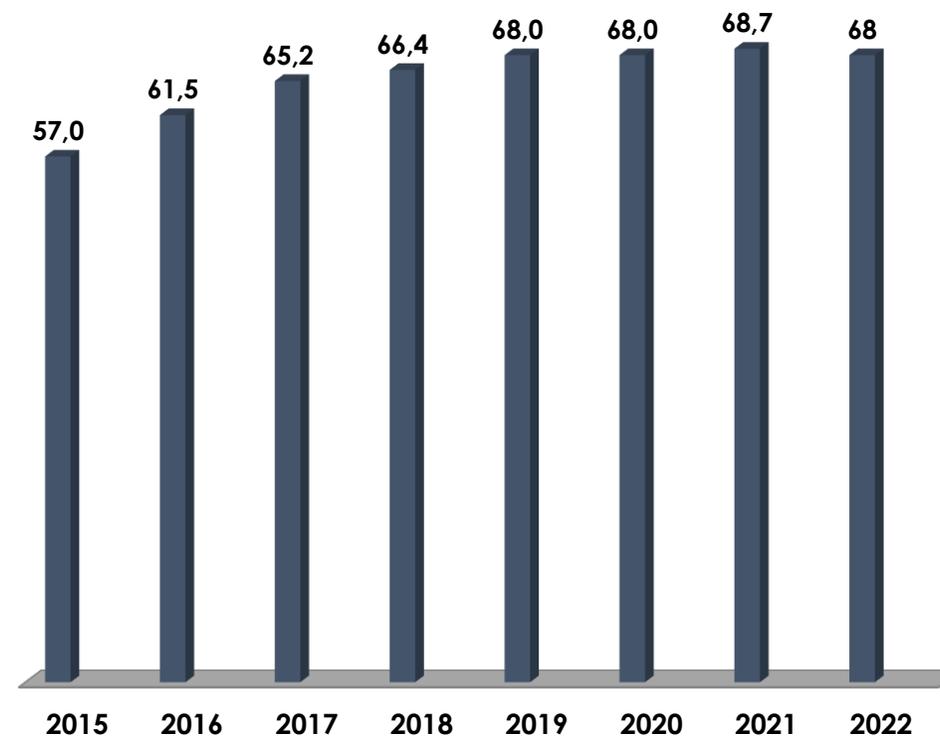
# FERTILITY MEDICAL GROUP - Resultados 2022

## Resultados ciclos de captação ovocitária - faixa etária

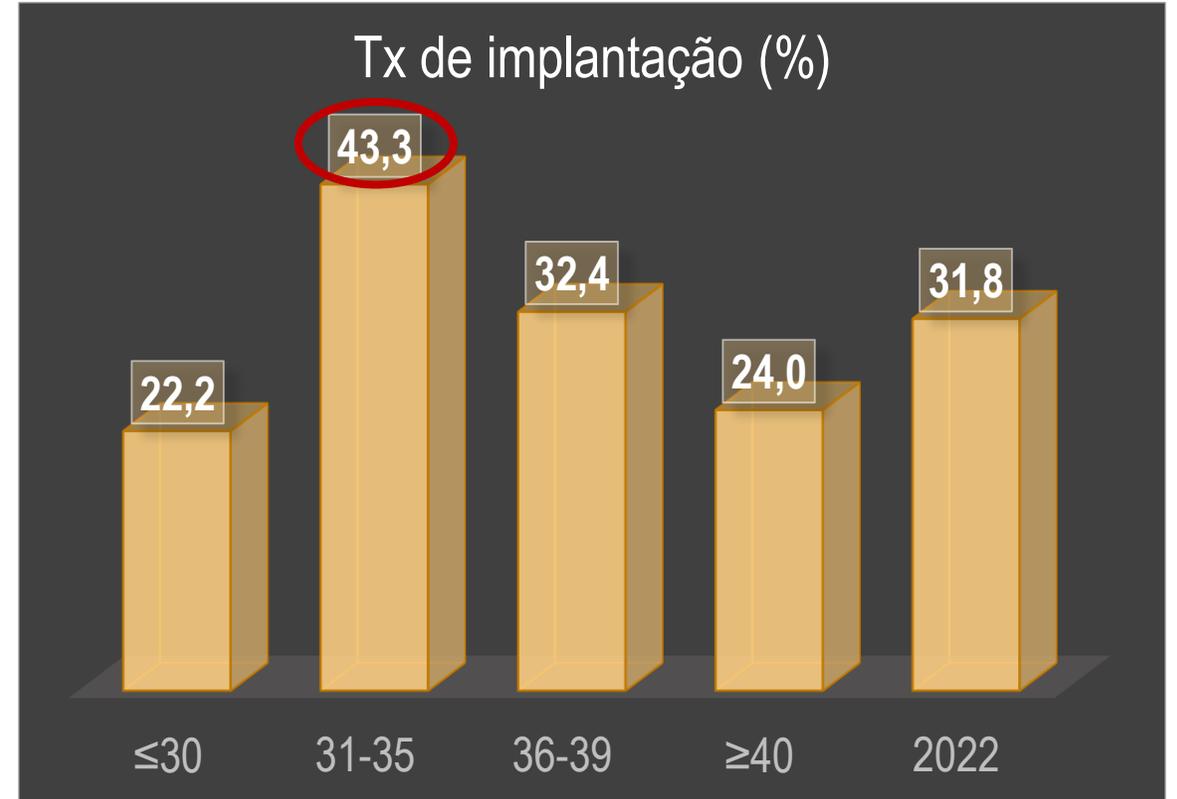
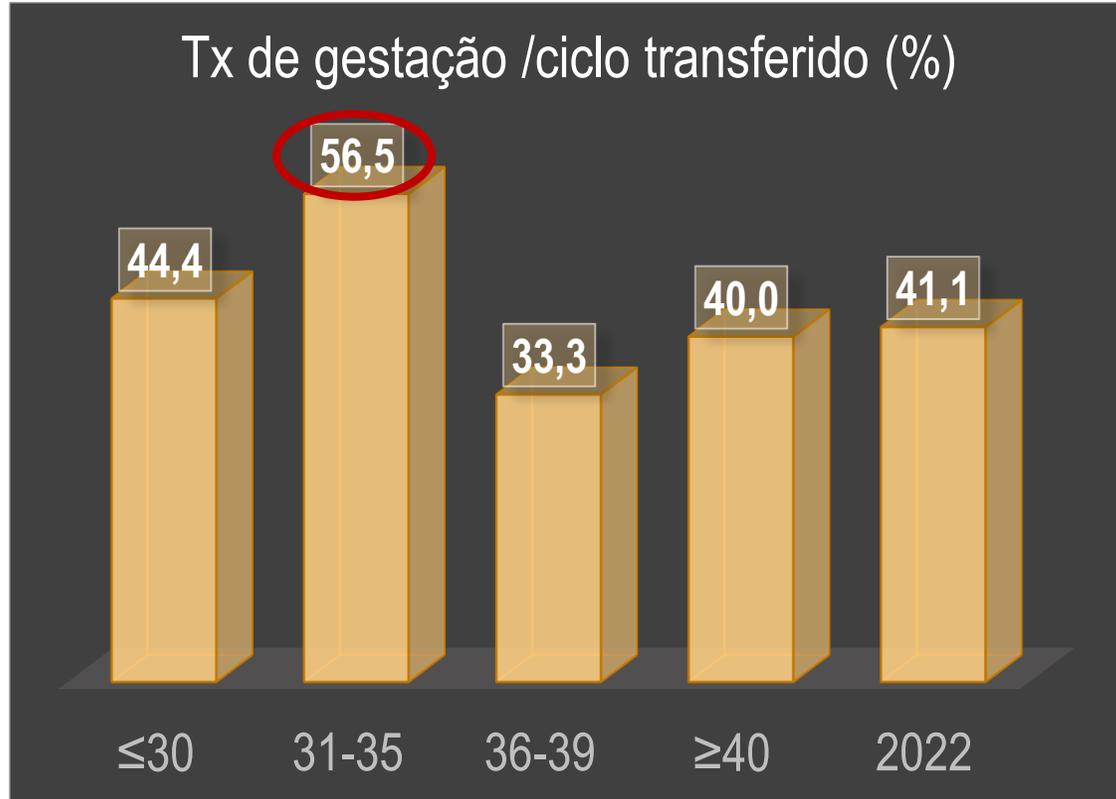
Distribuição dos ciclos de Captação ovocitária por idade - 2022



Pacientes com idade ≥ 36 anos (%)



# Resultados ciclos de ICSI – Fertility 2022

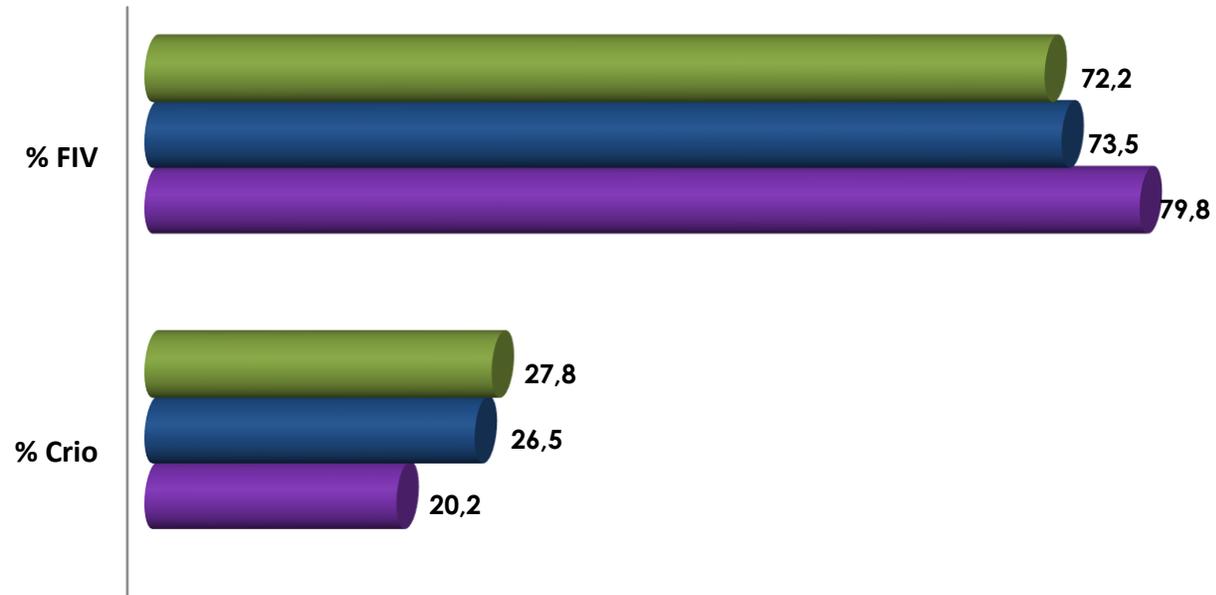


## Ciclos de transferência à fresco

# FERTILITY MEDICAL GROUP - Resultados 2022

Distribuição dos ciclos de captação ovocitária

■ 2022 ■ 2021 ■ 2020



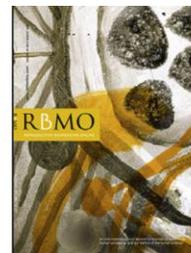
# Preservação da fertilidade



Vitrificação de ovócitos em mulheres em risco de declínio da fertilidade não é mais considerada experimental de acordo com a ASRM

# ***Protocolos de Estímulo Ovariano***

# RBMMO



REVIEW

## Use of progestins to inhibit spontaneous ovulation during ovarian stimulation: the beginning of a new era?

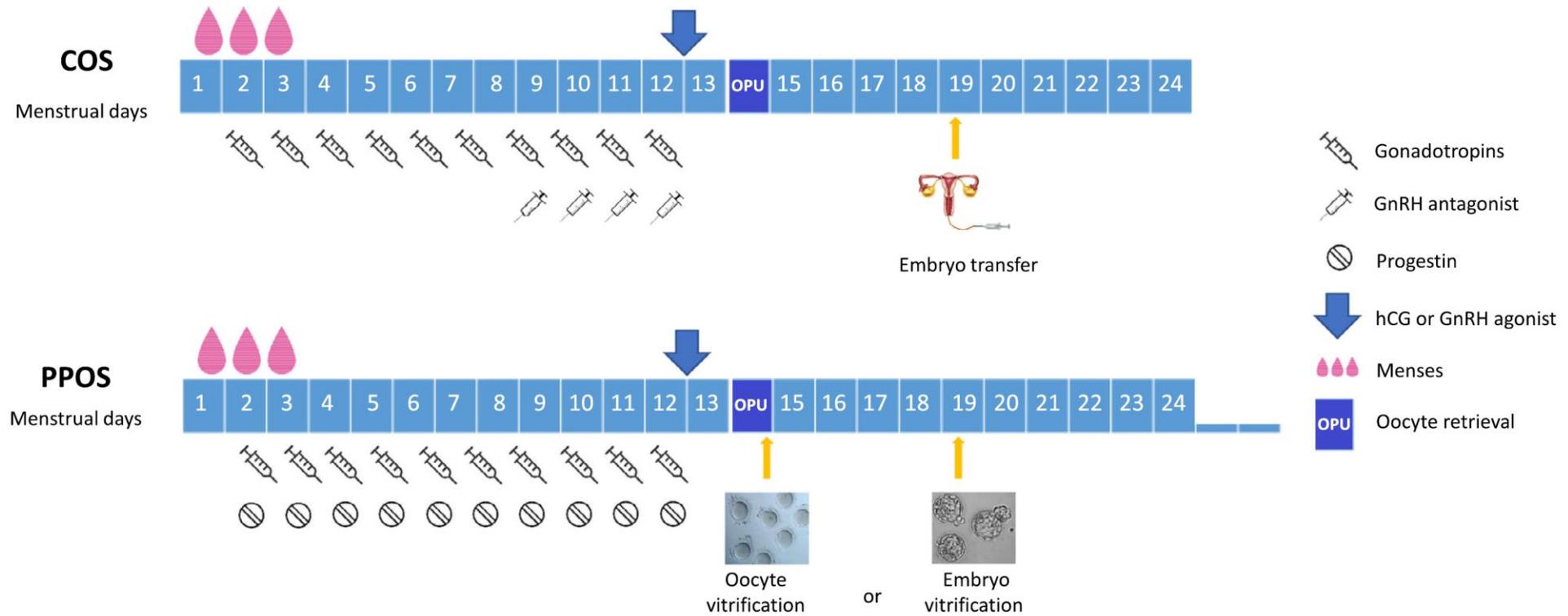


### BIOGRAPHY

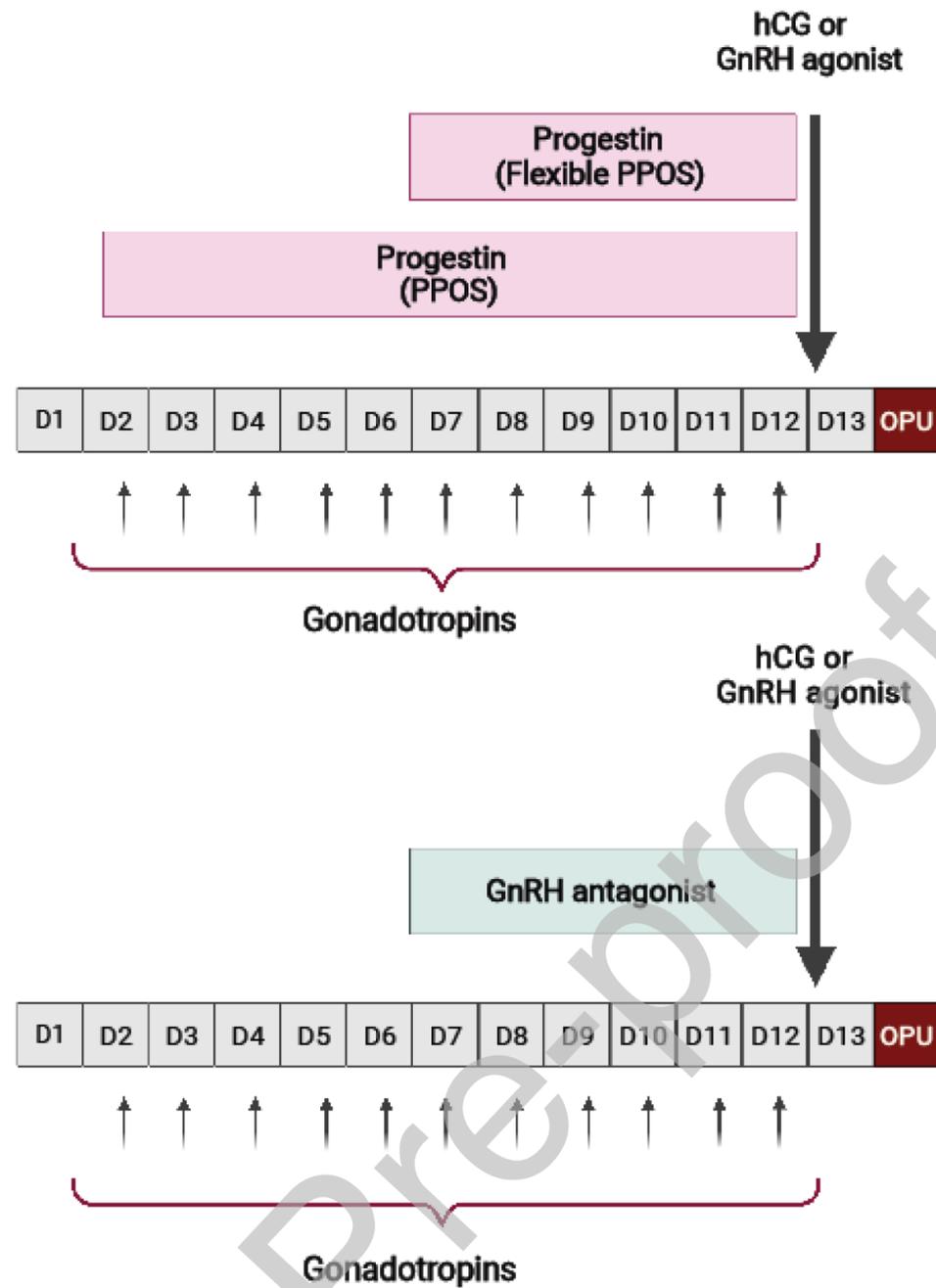
Antonio La Marca is Professor of Obstetrics and Gynaecology at the University of Modena and Reggio Emilia, Modena, Italy. His activity covers the whole field of reproductive medicine and surgery. He is the author of 160 articles in peer-reviewed journals and a recipient of competitively assigned research funds.

Antonio La Marca<sup>1,\*</sup>, Martina Capuzzo<sup>1</sup>

Organization of a conventional ovarian stimulation (COS) protocol with a GnRH antagonist, versus a progestin primed ovarian stimulation (PPOS) protocol.



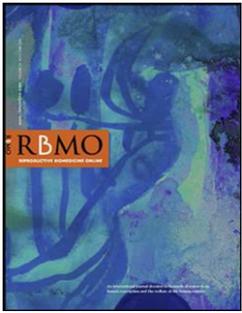
**FIGURE 1** Organization of a conventional ovarian stimulation (OS) protocol with gonadotrophin-releasing hormone (GnRH) antagonist versus a progestin-primed ovarian stimulation (PPOS) protocol. HCG, human chorionic gonadotrophin.



Progestin primed ovarian stimulation, for whom, when and how?

Baris Ata , Erkan Kalafat

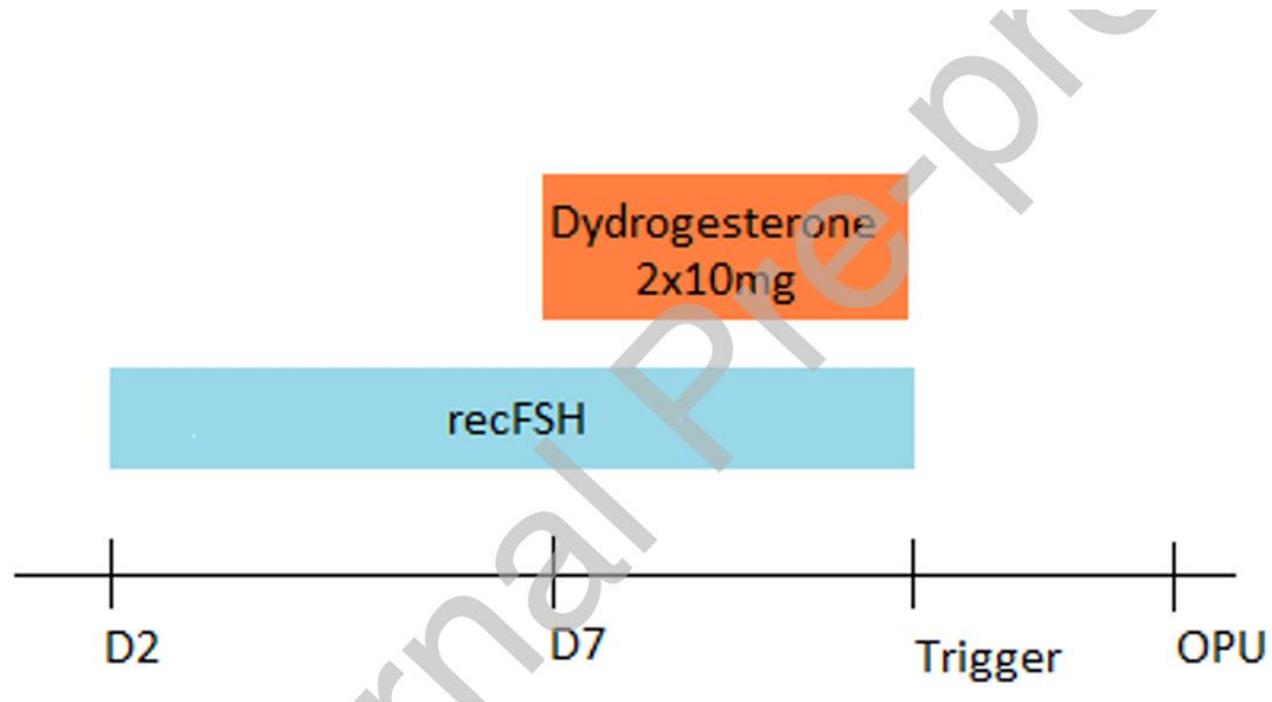
PII: S1472-6483(23)00738-1  
 DOI: <https://doi.org/10.1016/j.rbmo.2023.103639>  
 Reference: RBMO 103639



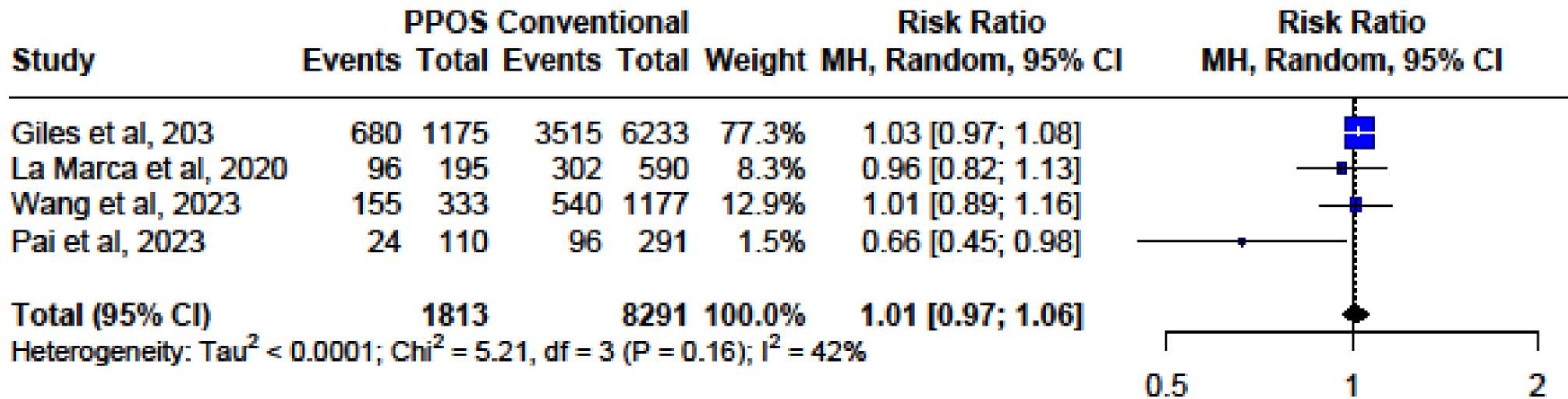
# Progestin primed ovarian stimulation using dydrogesterone from day 7 of the cycle onwards in oocyte donation cycles: a longitudinal study

S Hendrickx , N De Munck , S Mackens , S Ruttens , H Tournaye ,  
M De Vos , C Blockeel

PII: S1472-6483(23)00831-3  
DOI: <https://doi.org/10.1016/j.rbmo.2023.103732>  
Reference: RBMO 103732



	<b>PPOS</b> <b>(n=64)</b> <b>Mean (SD)</b> <b>Median (IQR)</b>	<b>GnRH antagonist</b> <b>(n=64)</b> <b>Mean (SD)</b> <b>Median (IQR)</b>	<b>P-value*</b>
Number COC	19.7 (10.8) 17.5 (12.5-23.5)	19.2 (8.3) 17 (13-25)	0.5
Number MII	15.5 (8.4) 14.5 (10-19)	16.2 (7.0) 14.5 (10-21)	0.19
Duration of stimulation (days)	10.5 (1.5) 10 (10-11)	10.8 (1.5) 10.5 (10-12)	0.14
Total dose of gonadotropins (IU)	2271.9 (429.7) 2250 (2025-2475)	2321.5 (403.4) 2250 (2175-2475)	0.2



Progesterin primed ovarian stimulation, for whom, when and how?

Baris Ata , Erkan Kalafat

PII: S1472-6483(23)00738-1  
 DOI: <https://doi.org/10.1016/j.rbmo.2023.103639>  
 Reference: RBMO 103639

# Ovarian response markers lead to appropriate and effective use of corifollitropin alpha in assisted reproduction

Antonio La Marca \*, Giovanni D'Ippolito

186

A La Marca, G D'Ippolito

**Table 1** Characteristics of patients and outcome of stimulation in the ENGAGE and ENSURE trials.

<i>Characteristic</i>	<i>ENGAGE<sup>a</sup></i>		<i>ENSURE<sup>b</sup></i>	
	<i>150 µg corifollitropin alpha (n = 756)</i>	<i>200 IU recombinant FSH (n = 750)</i>	<i>100 µg corifollitropin alpha (n = 268)</i>	<i>150 IU recombinant FSH (n = 128)</i>
Age (years)	31.5 ± 3.3	31.5 ± 3.2	30.9 ± 3.2	31.1 ± 3
Bodyweight (kg)	68.8 ± 7.6	68.4 ± 7.3	54.1 ± 4.2	54.4 ± 4.2
Basal AFC	12.8 ± 6.7	11.6 ± 6.0	11.8 ± 6.1	10.6 ± 5.3
Follicles >11 mm on HCG day	16.0 ± 7.0	13.9 ± 6.1	14.9 ± 6.6	12.9 ± 5.8
Oocytes retrieved	13.7 ± 8.2	12.5 ± 6.7	13.3 ± 7.3	10.6 ± 5.9

Values are mean ± standard deviation.

<sup>a</sup>Devroey et al. (2009).

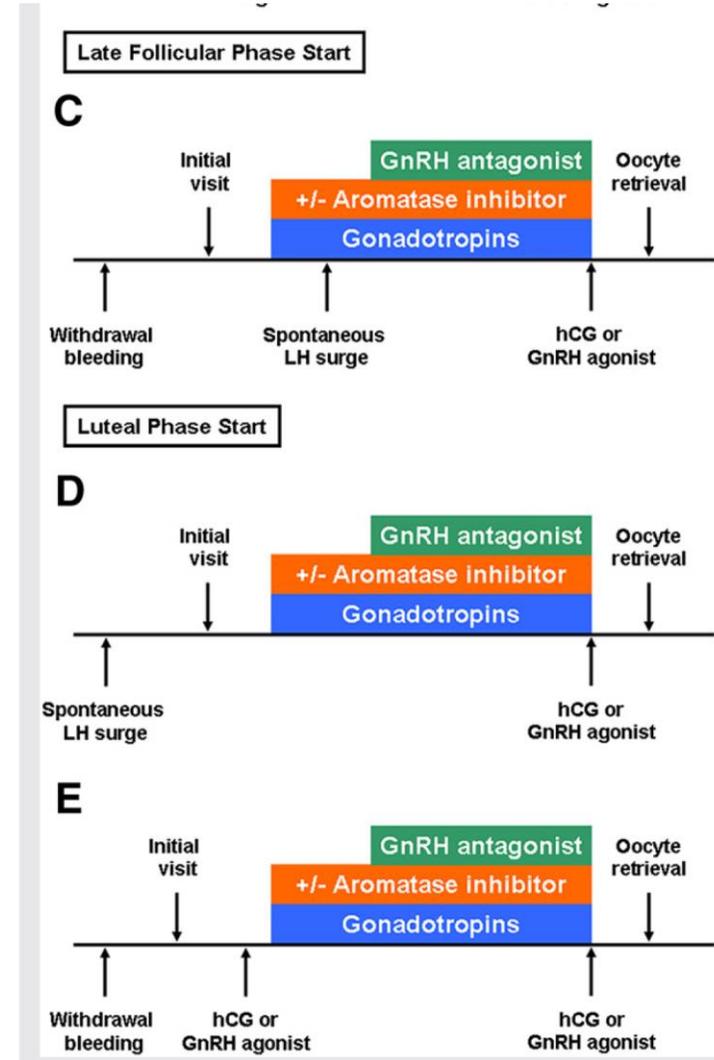
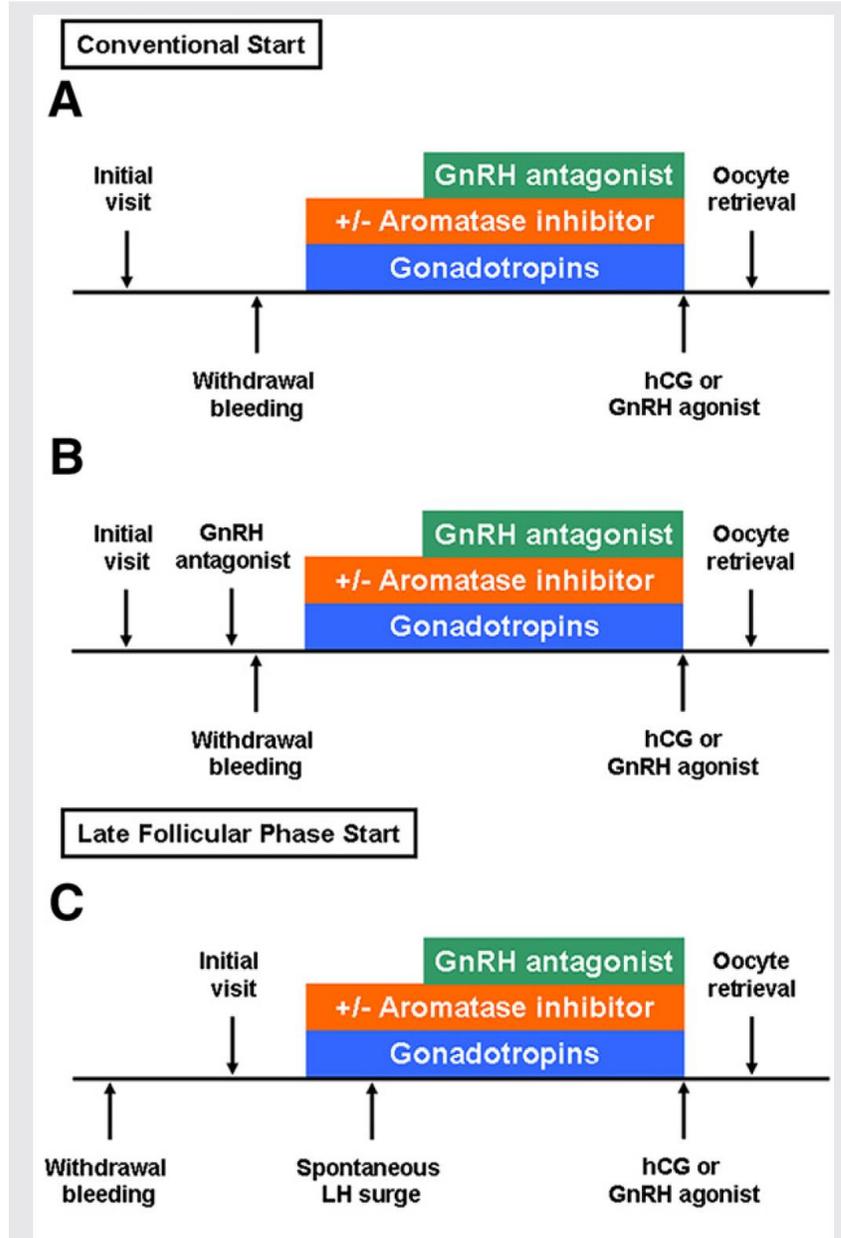
<sup>b</sup>Corifollitropin Alfa ENSURE Study Group (2010).

<http://dx.doi.org/10.1016/j.rbmo.2013.10.012>



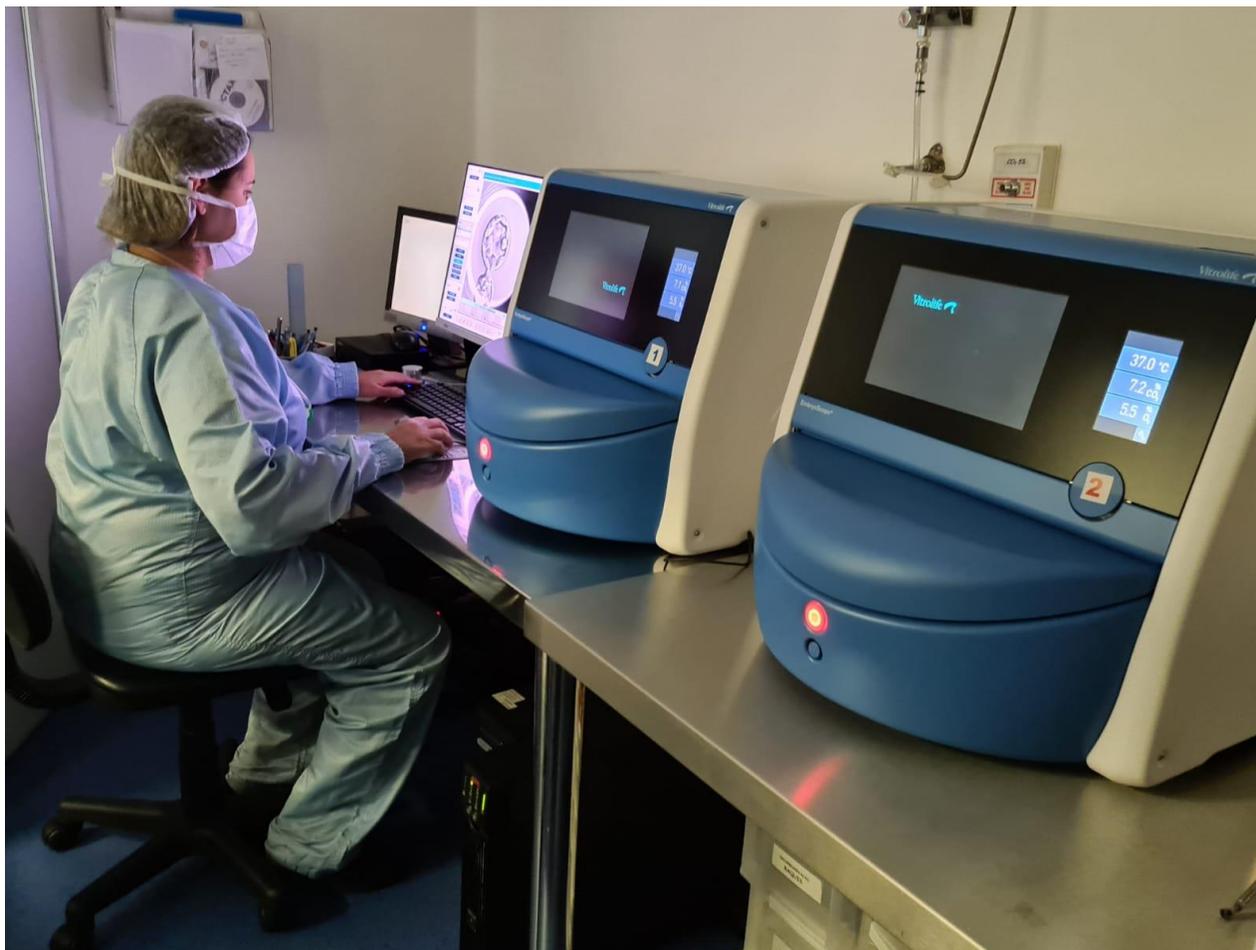


**FIGURE 1**

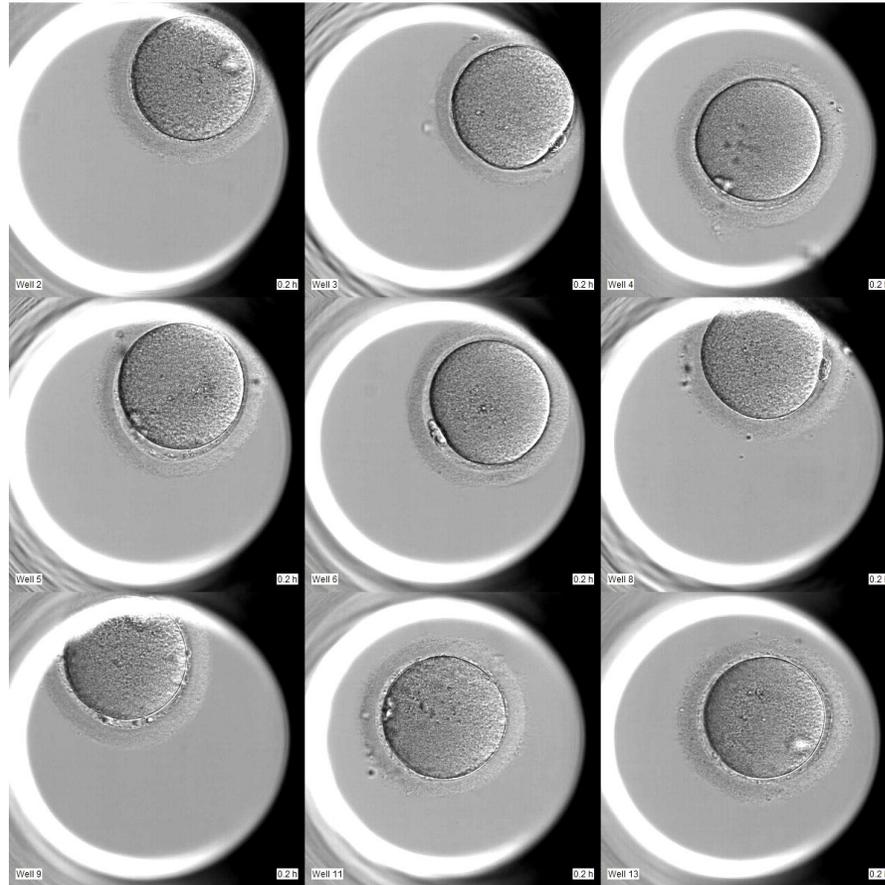


Fertility and Sterility® Vol. 99, No. 6, May 2013

# Embryoscope



# Embryoscope FERTILITY



# Journal Pre-proof

Progesterone-primed cycles result in slower embryos without compromising implantation potential and with the advantages of oral administration and potential cost reduction

Daniela Braga, DVM, PhD, Amanda Setti, M.Sc, Edward Carrilho, MD, Patrícia Guilherme, M.Sc, Assumpto Iaconelli, Jr., MD, Edson Borges, Jr., MD, PhD

PII: S2666-335X(23)00072-1

DOI: <https://doi.org/10.1016/j.xfss.2023.12.001>

Reference: XFSS 175



**Table 1.** Comparison of demographic data and cycle characteristics between the progestin-primed group and the GnRH antagonist group

Variable	Progestin-primed	GnRH antagonist	p value	
Cycles	118	118		
Female age (years)	36.7 ± 3.8	36.9 ± 5.5	0.452	
Male age (years)	39.1 ± 6.4	38.2 ± 3.7	0.325	
Female BMI (kg/m <sup>2</sup> )	23.5 ± 3.5	24.8 ± 3.3	0.145	
Total dose of FSH	Follitropin alfa (UI)	2423.1 ± 1021.4	2563.5 ± 855.4	0.234
	Follitropin delta (µg)	149.4 ± 40.8	151.3 ± 33.9	0.424
Aspirated follicles (n)	11.2 ± 1.2	12.7 ± 1.1	0.308	
Retrieved oocytes (n)	8.2 ± 0.7	10.1 ± 0.9	0.136	
Oocyte yield (%)	72.9 ± 2.3	75.7 ± 2.1	0.356	
Mature oocytes (n)	6.1 ± 0.7	7.6 ± 0.6	0.135	
Mature oocytes (%)	78.7 ± 2.3	73.6 ± 2.7	0.149	
Fertilization (%)	70.9 ± 2.8	73.3 ± 3.2	0.573	
Blastocyst formation (%)	50.3 ± 3.7	55.1 ± 4.4	0.402	
Transferred embryos (n)	1.6 ± 0.6	1.5 ± 0.5	0.542	

Note: Values are means ± standard errors, unless otherwise noted. ICSI – intracytoplasmic sperm injection; BMI – body mass index; FSH – follicle stimulating hormone

**Table 3:** Comparison of intracytoplasmic sperm injection (ICSI) clinical outcomes between the progestin-primed group and the GnRH antagonist group

Variable	Progestin-primed group	GnRH antagonist group	p value
Cycles	118	118	
Cancelation rate (%)	18/118 (15.2)	3/118 (2.5)	0.005
Implantation rate (%)	64.6 ± 6.1	44.4 ± 6.3	0.002
Pregnancy rate per started cycles (%)	64/118 (54.2)	56/118 (47.4)	0.251
Pregnancy rate (%)	64/100 (64.0)	56/115 (48.6)	0.128
Miscarriage rate (%)	2/64 (3.1)	5/56 (8.3_)	0.643

**Table 2:** Comparison of morphokinetic parameters between the progestin-primed group and the GnRH antagonist group

Morphokinetic parameter (h)	Progestin-primed	GnRH antagonist	p value
Embryos	1360	1408	
tPNa	7.0 ± 0.2	6.2 ± 0.2	<b>0.008</b>
tPNf	24.3 ± 0.3	23.6 ± 0.2	0.142
t2	27.2 ± 0.3	26.2 ± 0.3	<b>0.045</b>
t3	37.5 ± 0.4	36.6 ± 0.3	0.130
t4	39.2 ± 0.4	38.8 ± 0.3	0.493
t5	50.1 ± 0.6	49.2 ± 0.5	0.316
t6	52.8 ± 0.6	52.5 ± 0.5	0.653
t7	56.4 ± 0.7	54.7 ± 0.5	<b>0.046</b>
t8	60.4 ± 0.8	58.7 ± 0.6	0.120
tM	89.3 ± 0.8	87.1 ± 0.6	<b>0.045</b>
tSB	101.5 ± 0.8	98.9 ± 0.1	<b>0.012</b>
tB	111.0 ± 0.8	108.5 ± 0.7	<b>0.034</b>
s1	2.6 ± 0.0	2.7 ± 0.0	0.250
s2	1.9 ± 0.2	2.4 ± 0.2	0.172
s3	10.5 ± 0.6	10.1 ± 0.4	0.623
cc2	10.7 ± 0.2	10.3 ± 0.2	0.170
cc3	12.9 ± 0.4	12.7 ± 0.30	0.897
KIDScore	5.4 ± 0.0	5.9 ± 0.1	0.465

# Freeze-all, oocyte vitrification, or fresh embryo transfer? Lessons from an egg-sharing donation program

Daniela Paes Almeida Ferreira Braga, D.V.M., Ph.D.,<sup>a,b,c</sup> Amanda Souza Setti, M.Sc.,<sup>a,c</sup>  
Rita Cássia Sávio Figueira, Ph.D.,<sup>a</sup> Matheus de Castro Azevedo, B.Sc.,<sup>a</sup> Assumpto Iaconelli Jr., M.D.,<sup>a</sup>  
Edson Guimarães Lo Turco, D.V.M., Ph.D.,<sup>b</sup> and Edson Borges Jr., M.D., Ph.D.<sup>a,b,c</sup>

<sup>a</sup> Fertility–Medical Group; <sup>b</sup> Disciplina de Urologia, Área de Reprodução Humana, Departamento de Cirurgia, Universidade Federal de São Paulo; and <sup>c</sup> Instituto Sapientiae–Centro de Estudos e Pesquisa em Reprodução Humana Assistida, São Paulo, Brazil

Fertility and Sterility® Vol. 106, No. 3, September 1, 2016 0015-0282/\$36.00  
Copyright ©2016 American Society for Reproductive Medicine, Published by Elsevier Inc.  
<http://dx.doi.org/10.1016/j.fertnstert.2016.05.004>

Comparação dos resultados de ciclos de reprodução assistida quando transferidos embriões frescos ou vitrificados, ou quando transferidos embriões provenientes de ovócitos vitrificados

**TABLE 1**

Comparison of the characteristics of patients and cycles, embryo quality on days 2 and 3, and blastocyst formation rate of the Fresh Oocyte Cycles Group and the Banked Donor Egg Group.

Variable	Group		P value
	Fresh oocyte cycles	Banked donor egg	
Cycles (n)	425	425	
Embryos (n)	4,585	2,128	
Female age (y)	31.3 ± 3.3	41.4 ± 5.5	< .001
Male age (y)	35.1 ± 5.5	41.2 ± 7.2	< .001
No. of follicles	33.7 ± 12.9	–	NC
Sperm concentration (× 10 <sup>6</sup> /mL)	46.5 ± 51.0	44.3 ± 39.9	.477
Sperm progressive motility (%)	44.0 ± 15.5	45.4 ± 16.8	.212
Sperm morphology (%)	1.5 ± 2.3	1.4 ± 1.8	.484
No. of oocytes	25.8 ± 9.7	–	NC
No. of metaphase II oocytes	19.4 ± 7.8	–	NC
Oocyte survival rate (%)	–	94.4%	NC
Injected oocytes	12.8 ± 4.8	4.3 ± 1.3	NC
Embryos	10.8 ± 4.3	3.4 ± 3.0	NC
Fertilization rate	85.4 ± 14.4	80.2 ± 18.2	< .001
Transferred embryos	1.6 ± 1.0	1.8 ± 1.1	< .001
High-quality embryos on D2, % (n)	43.2 (1,984/4,585)	31.5 (670/2,128)	< .001
High-quality embryos on D3, % (n)	38.6 (1,770/4,585)	30.7 (655/2,128)	< .001
Blastocyst formation, % (n)	41.1 (1,885/4,585)	36.6 (779/2,128)	< .001

Note: Values are mean ± SD, unless otherwise noted. D2 = second day of embryo development; D3 = third day of embryo development; NC = not comparable.

**TABLE 2**

Comparison of oocyte/embryo survival rate, total usable embryos rate, and clinical outcomes considering the status of transferred embryos.

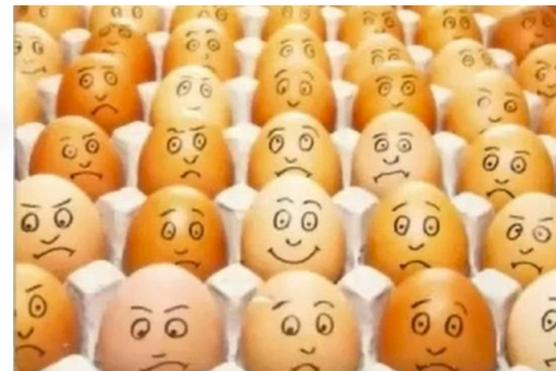
Variable	Group			P value
	Fresh cycles (n = 128)	Thaw cycles (n = 297)	Banked donor egg (n = 425)	
Oocyte/embryo survival rate	NA	98.6 (3,165/3,209) <sup>b</sup>	95.1 (2,635/2,770) <sup>a</sup>	< .001
Total usable embryos rate	36.4 (501/1,376) <sup>c</sup>	NA	39.7 (846/2,128) <sup>d</sup>	.047
Pregnancy rate	39.8 (51/128) <sup>e</sup>	71.4 (212/297) <sup>f</sup>	49.6 (211/425) <sup>g</sup>	< .001
Miscarriage rate	9.4 (5/53)	10.8 (23/212)	12.8 (21/164)	.679
Implantation rate	37.2 ± 41.1 <sup>h</sup>	67.3 ± 38.4 <sup>i</sup>	43.0 ± 41.0 <sup>j</sup>	< .001

Note: Data presented as % (n/N) or mean ±SD. Fresh oocytes and fresh embryos = fresh cycles group; fresh oocytes and vitrified embryos = thaw cycles group; and vitrified oocytes (banked donor egg group). Superscripts: a ≠ b; c ≠ d; e ≠ f ≠ g; h ≠ i ≠ j. NA = not applicable.

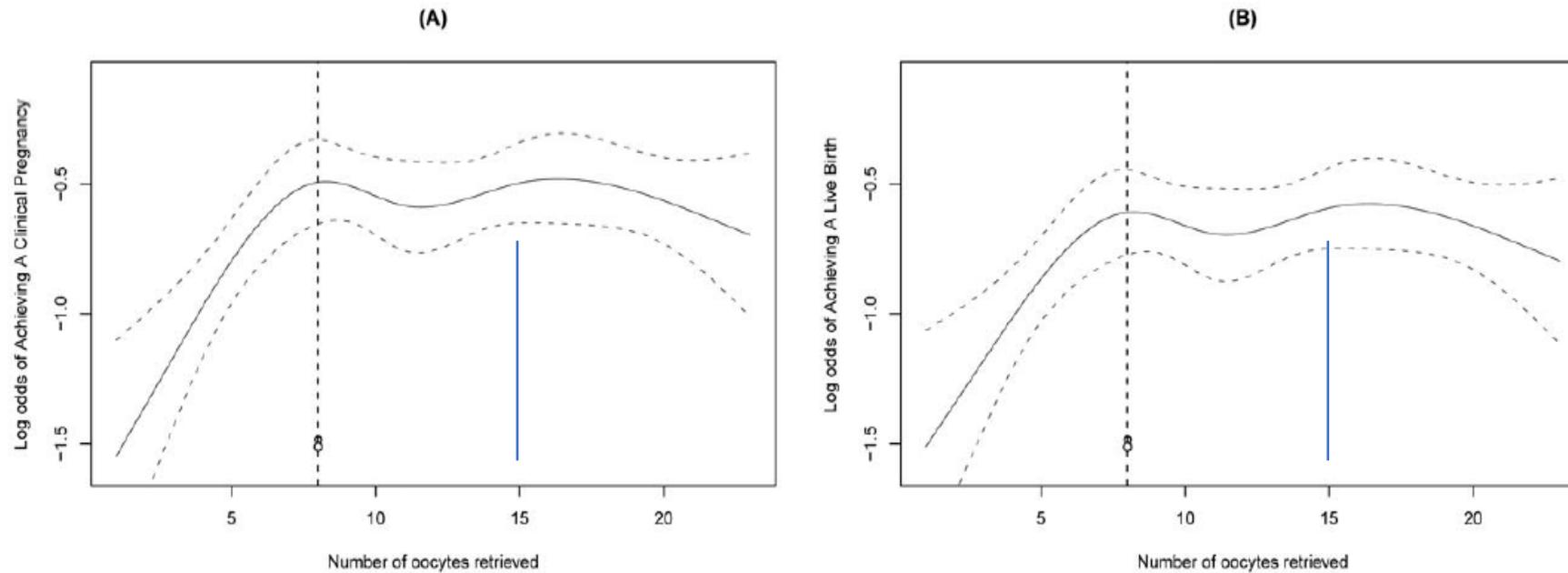
Braga. Erratum. Fertil Steril 2016.



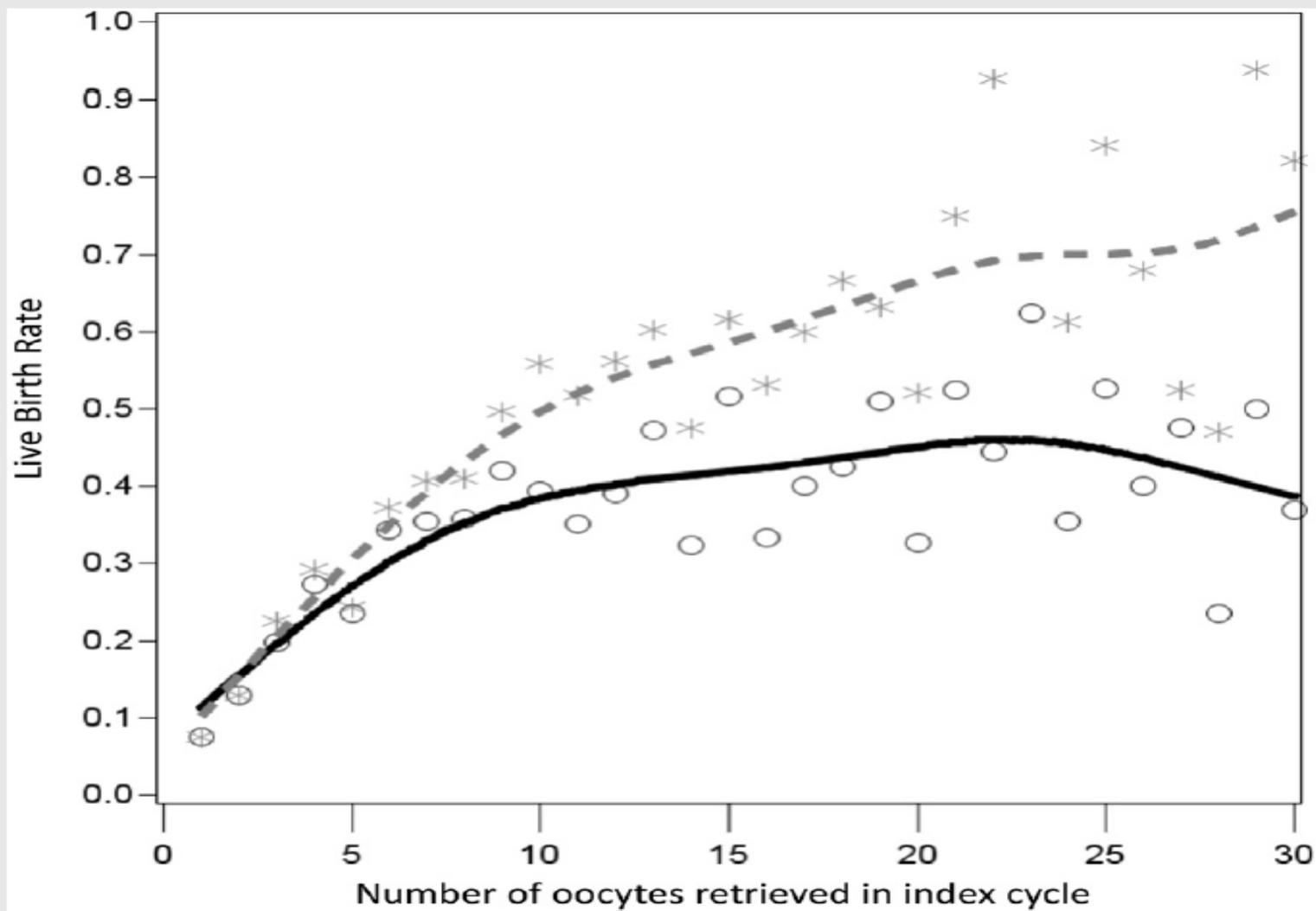
Qual o número ideal de óvulos num ciclo de FIV/ICSI?



# Não há vantagens em > 15 óvulos



Cai Q, Wan F, Huang K, Zhang H (2013) Does the Number of Oocytes Retrieved Influence Pregnancy after Fresh Embryo Transfer?. PLoS ONE 8(2): e56189.



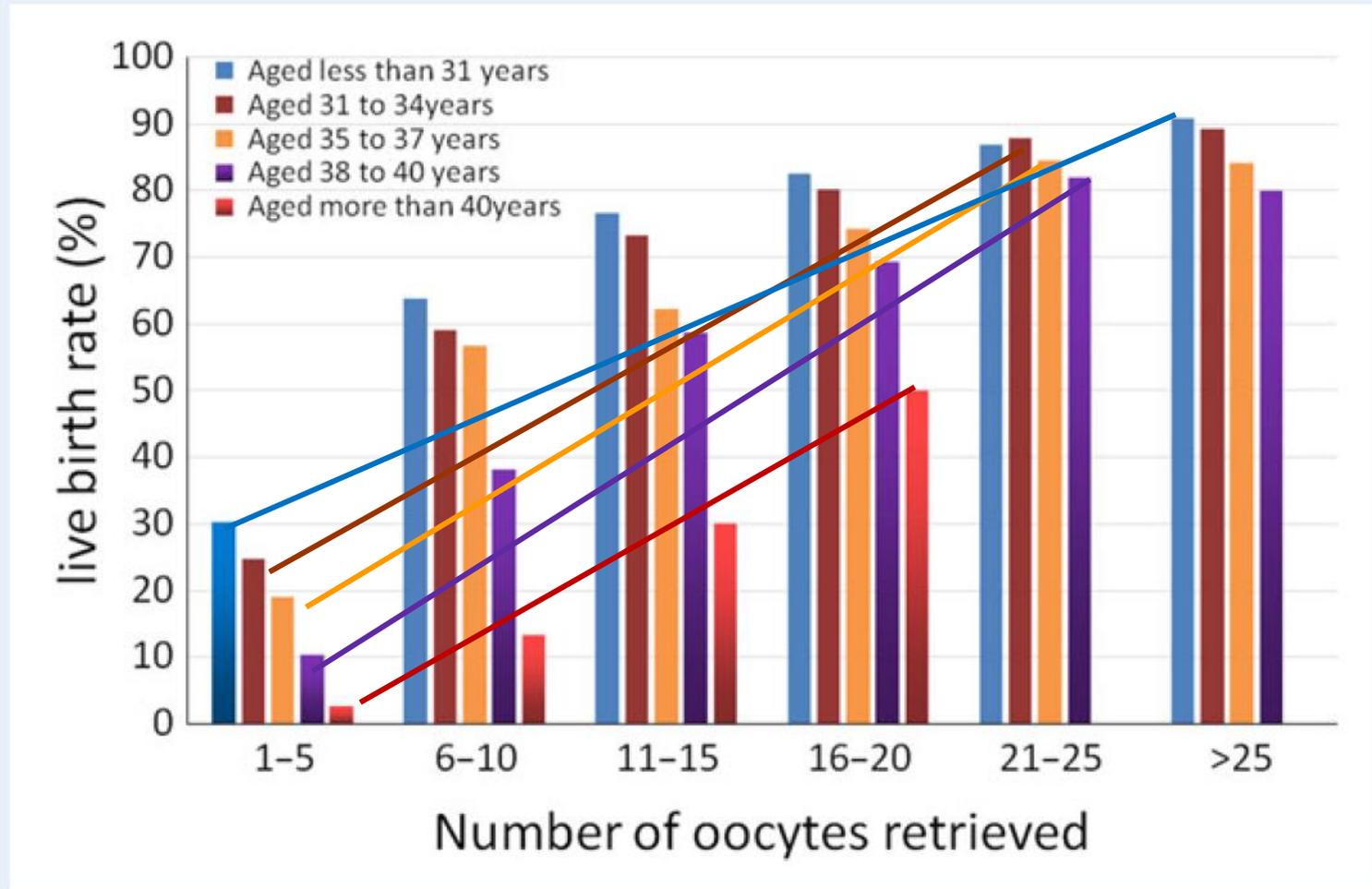
The relationship of live-birth rate in the index cycle ( $\circ$ ) and the cumulative live-birth rate ( $*$ ) across all (fresh and frozen) cycles per oocyte retrieved. The superimposed smoothed lines show the live-birth rate in the index cycle (*solid line*) and live-birth rate across all cycles (*broken line*) in relation to the number of oocytes retrieved.

Vaughan. *The more oocytes the better.* Fertil Steril 2016.

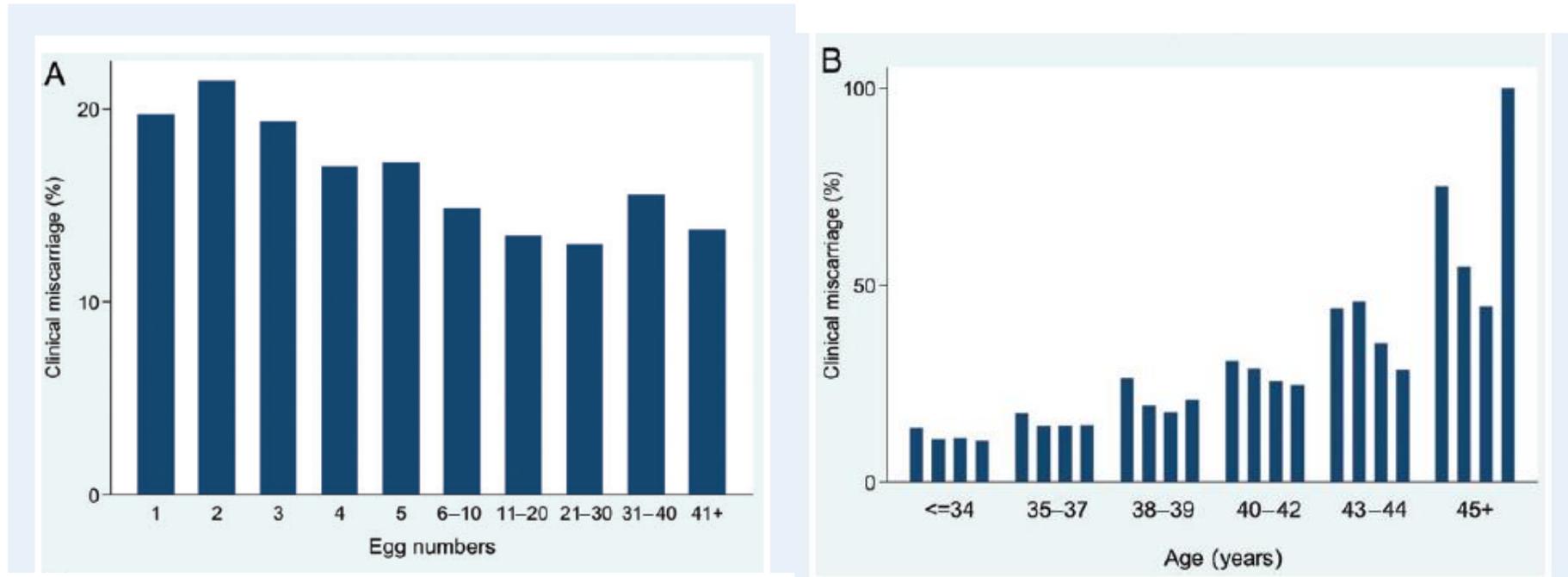
### Live birth rates in the first complete IVF cycle among 20 687 women using a freeze-all strategy

Qianqian Zhu, Qiuju Chen, Li Wang, Xuefeng Lu, Qifeng Lyu, Yun Wang\*, and Yanping Kuang\*

Department of Assisted Reproduction, Shanghai Ninth People's Hospital Affiliated to Jiao Tong University School of Medicine, Shanghai, China



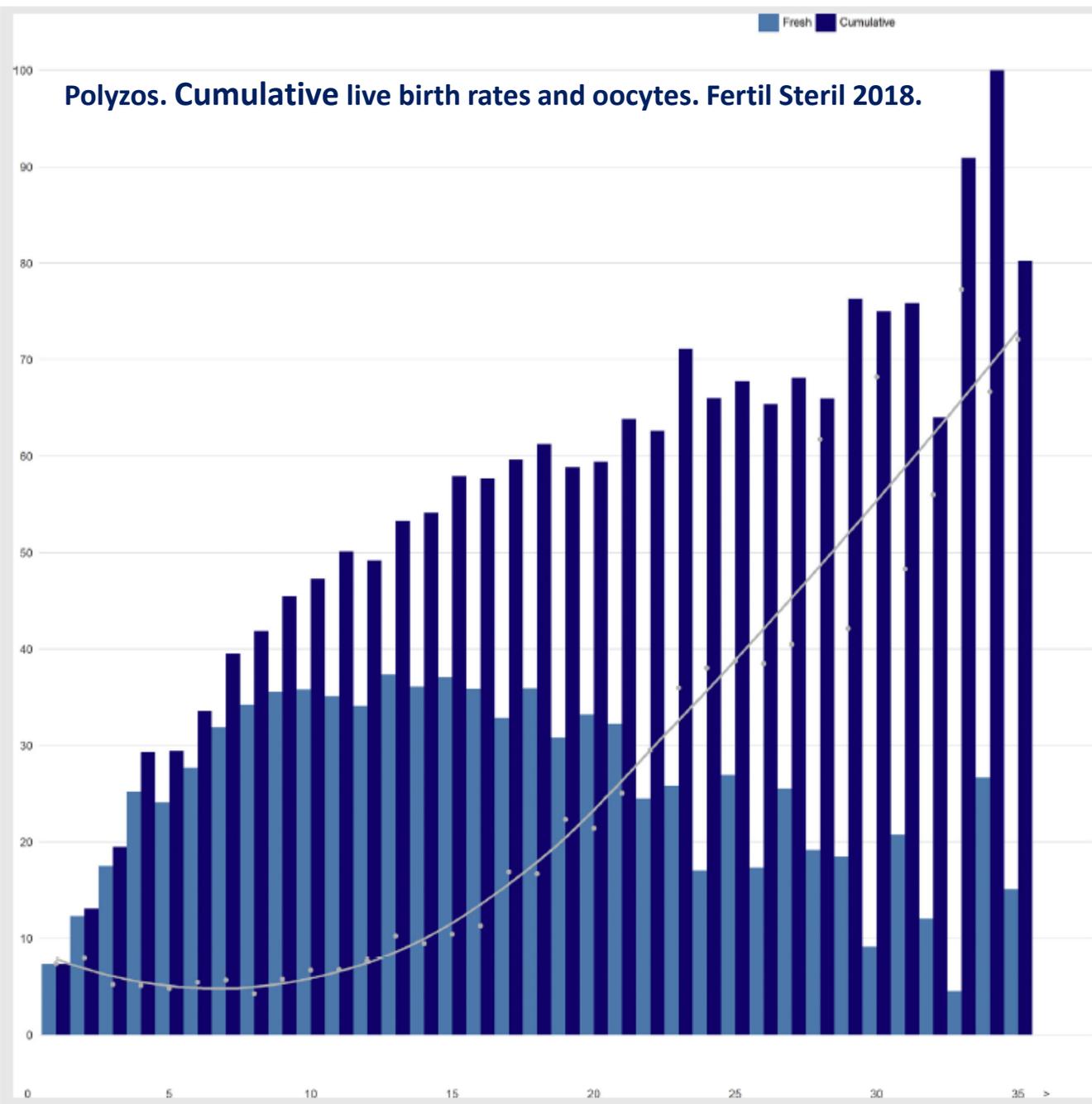
**Figure 2** LBRs after the first complete cycle, stratified by age and the number of oocytes retrieved.



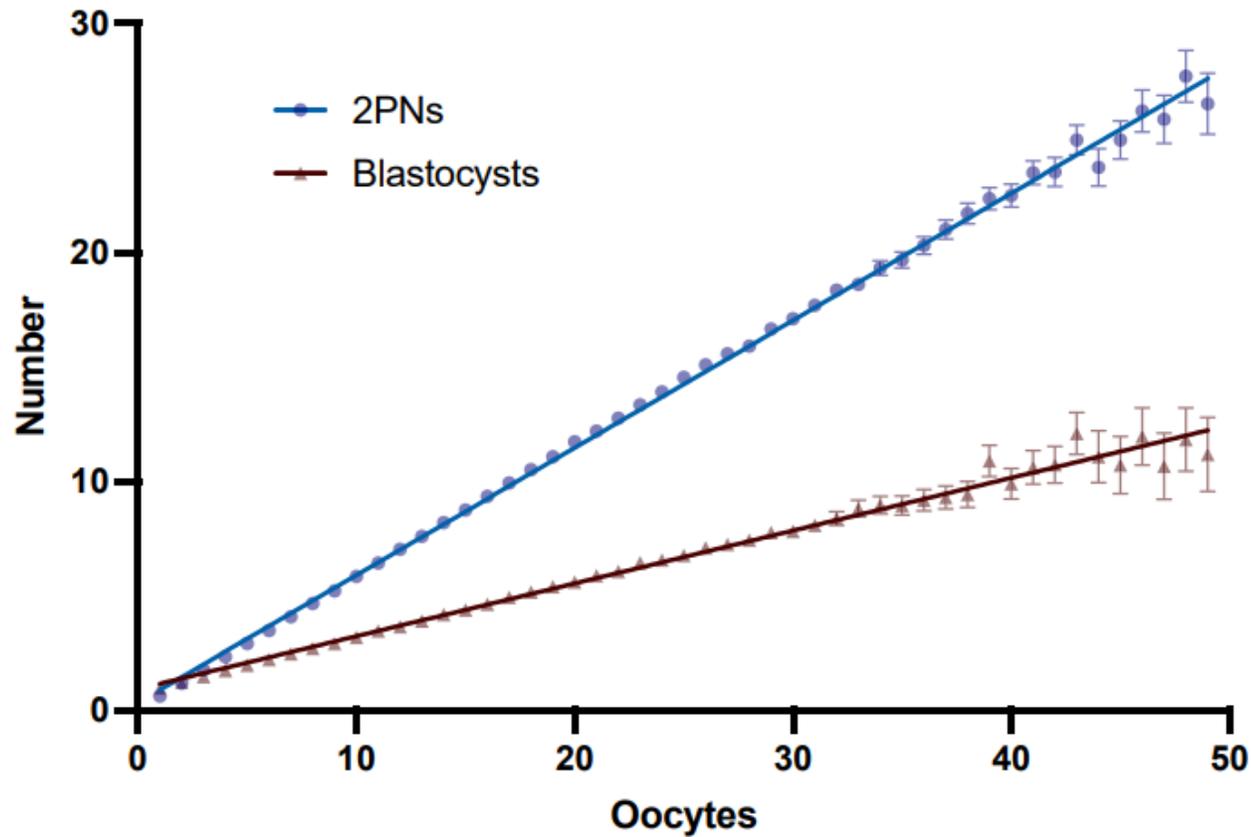
**Figure 3** Relationship between oocyte number and clinical miscarriage rate. **(A)** Overall association. **(B)** Stratified by age group. Each age group was divided according to oocyte number; from left to right: 1–3 oocytes, 4–9 oocytes, 10–14 oocytes,  $\geq 15$  oocytes.

Sunkara, HR 2014, Human Reprod 2009

Polyzos. Cumulative live birth rates and oocytes. Fertil Steril 2018.

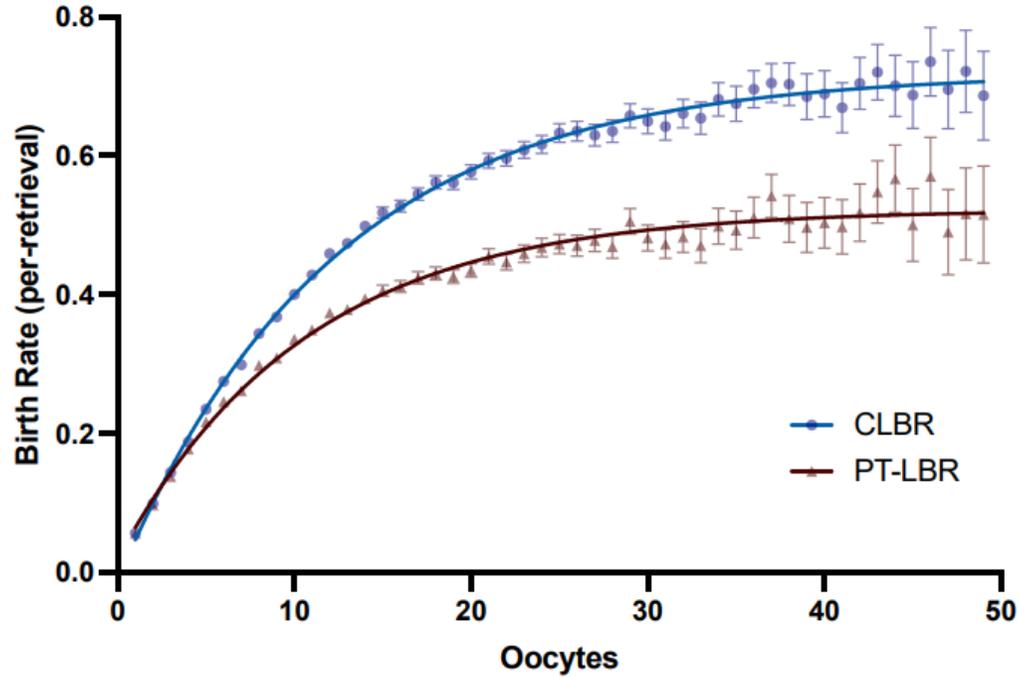


## Correlations between Oocytes and 2PNs/Blastocysts

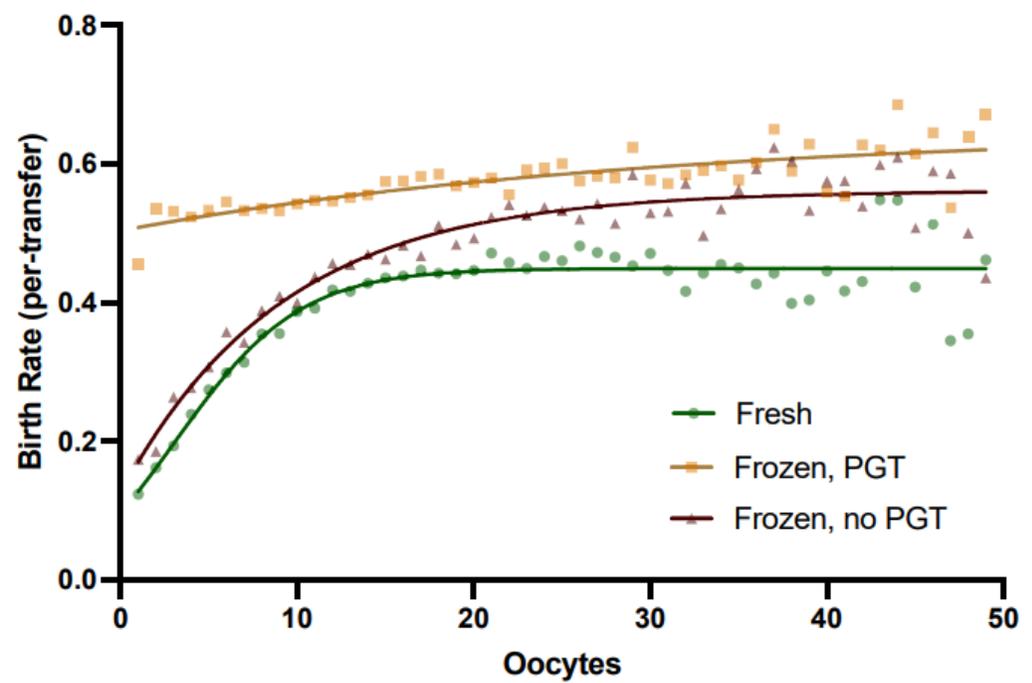


Linear correlations between oocytes retrieved (x-axis) and fertilized oocytes (2PNs, normally fertilized oocytes) and blastocysts (y-axis). There was a strong positive linear correlation between oocytes and 2PNs ( $r = 0.86$ ,  $P < .01$ ) and between oocytes and blastocysts ( $r = 0.85$ ,  $P < .01$ ).

**A** Cumulative and Primary Transfer Live Birth Rate, Per-Retrieval



**B** Primary Transfer Live Birth Rate Stratified by PGT, Per-Transfer



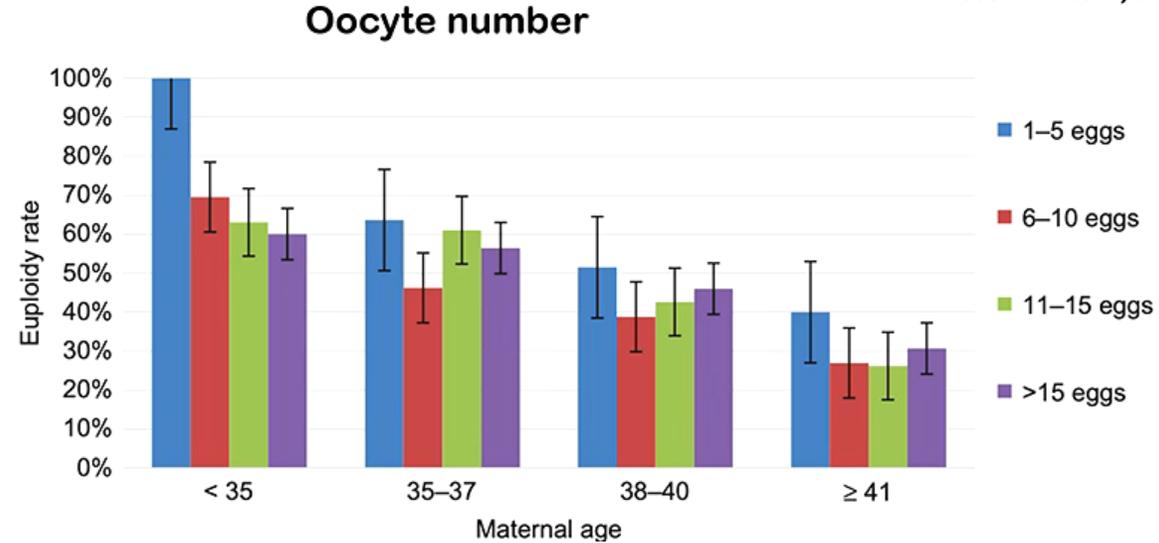
Relationships between birth rate and oocytes retrieved. (A) The cumulative live birth rate (CLBR) per-retrieval cycle increased with the number of oocytes retrieved, and the primary transfer live birth rate (PT-LBR) per retrieval increased until approximately 15 oocytes, at which point it began to plateau. (B) The PT-LBR per transfer stratified by fresh, frozen transfers with preimplantation genetic testing (PGT), and frozen transfers without PGT.

Fanton. More eggs lead to higher birth rates. *Fertil Steril* 2023.

# High gonadotropin dosage does not affect euploidy and pregnancy rates in IVF PGS cycles with single embryo transfer

Oleksii O. Barash\*, Mary D. Hinckley, Evan M. Rosenbluth, Kristen A. Ivani, and Louis N. Weckstein Hum Reprod 2017

## Euploidy rates



---

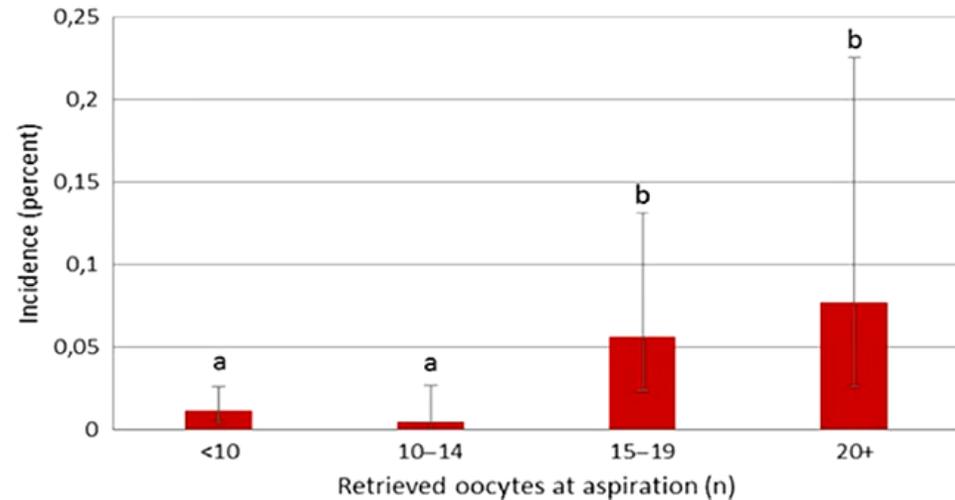
## The number of oocytes retrieved during IVF: a balance between efficacy and safety

Åsa Magnusson<sup>1,\*</sup>, Karin Källen<sup>2</sup>, Ann Thurin-Kjellberg<sup>1</sup>, and Christina Bergh<sup>1</sup>

77 956 fresh IVF and 39 387 FETs

1. **CLBR** ↑ up to **20 oocytes** – then evens out
2. **OHSS** increases rapidly > **18 oocytes**
3. **Thromboembolic events** rare BUT occurs if >**15 oocytes**

### Thromboembolic events



---

Magnusson et al. Hum Reprod 2018



Congelamento social de ovócitos entre 2010 a 2023: 1332 ciclos de 1000 pacientes

## Dados demográficos e características dos ciclos de congelamento social de ovócitos (n=1332 ciclos)

Variável	Média
Idade ao congelamento	36,6 anos
IMC médio	23,7 kg/m <sup>2</sup>
Folículos aspirados	12,9
Ovócitos obtidos	9,2
Taxa de recuperação ovocitária	67,3%
Taxa de maturação ovocitária	69,6%
Ovócitos congelados	6,4

# DADOS FERTILITY



Congelamento social de ovócitos entre 2010 a 2023 - Descongelamento: 132 ciclos de 121 pacientes

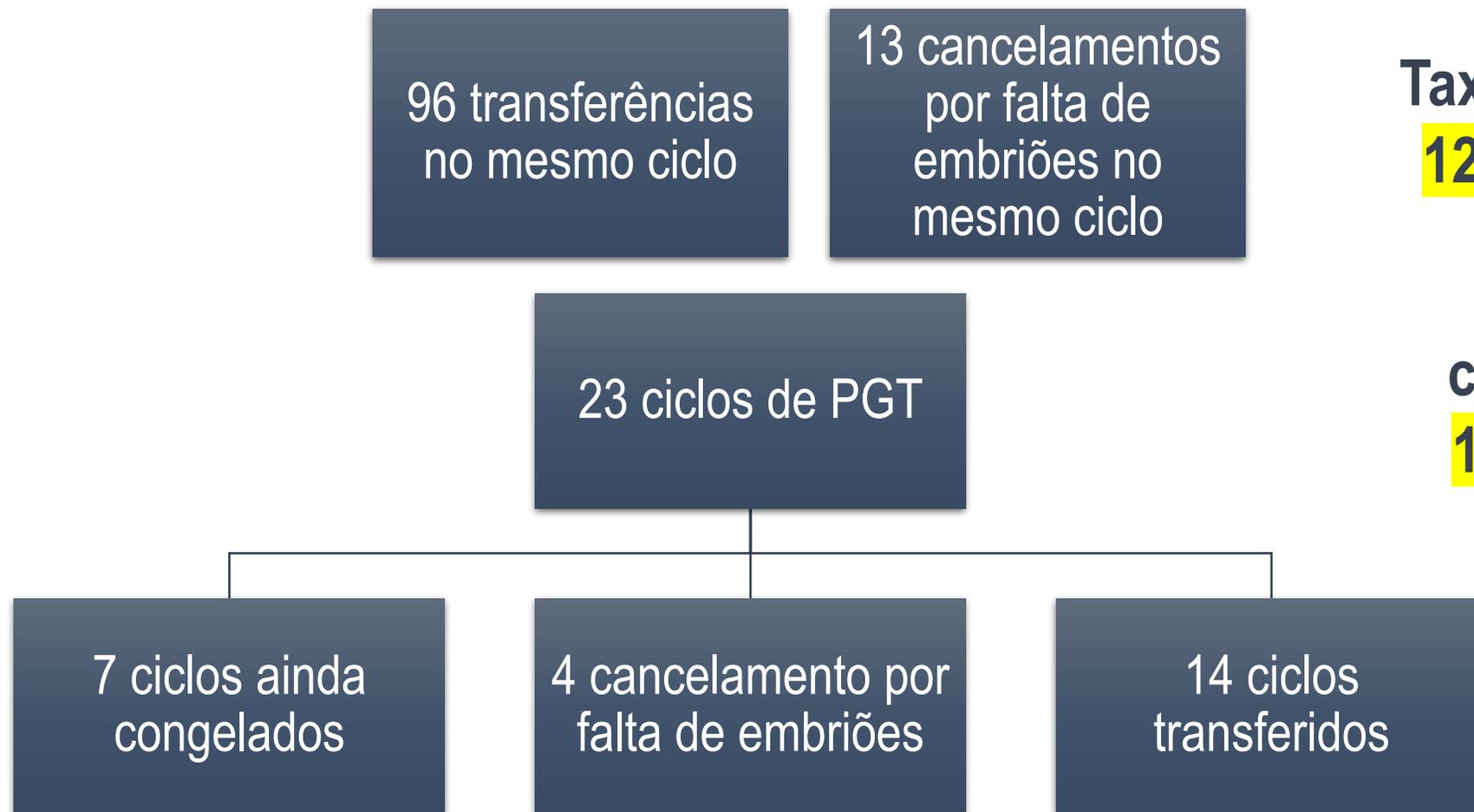
**Dados demográficos e características dos ciclos congelamento social de ovócitos em que houve descongelamento**

Variável	Média
Idade ao congelamento	37,1 anos
IMC ao congelamento	24.6 kg/m <sup>2</sup>
Folículos aspirados	15,9
Média de ovócitos obtidos	11,5
Taxa de recuperação ovocitária	68,8%
Taxa de maturação ovocitária	71,9%
Duração de armazenamento	19,5 meses
Idade ao descongelamento	38,6 anos
Taxa de sobrevivência	91,6%
Ovócitos injetados	7,1
Taxa de fertilização	82,4%

# DADOS FERTILITY



Congelamento social de ovócitos entre 2010 a 2023 - Descongelamento: 132 ciclos de 121 pacientes



**Taxa de utilização:**  
**121/1000 (12,1%)**

**Taxa de cancelamento:**  
**17/125 (13,6%)**

## RESULTADOS GERAIS POR CICLOS TRANSFERIDOS (110)

Taxa de gestação:  
47/110 (42,7%)

Taxa de implantação:  
37,1%

Taxa de aborto: 6/47  
(12,7%)

## RESULTADOS GERAIS POR CICLOS DE PGT (14)

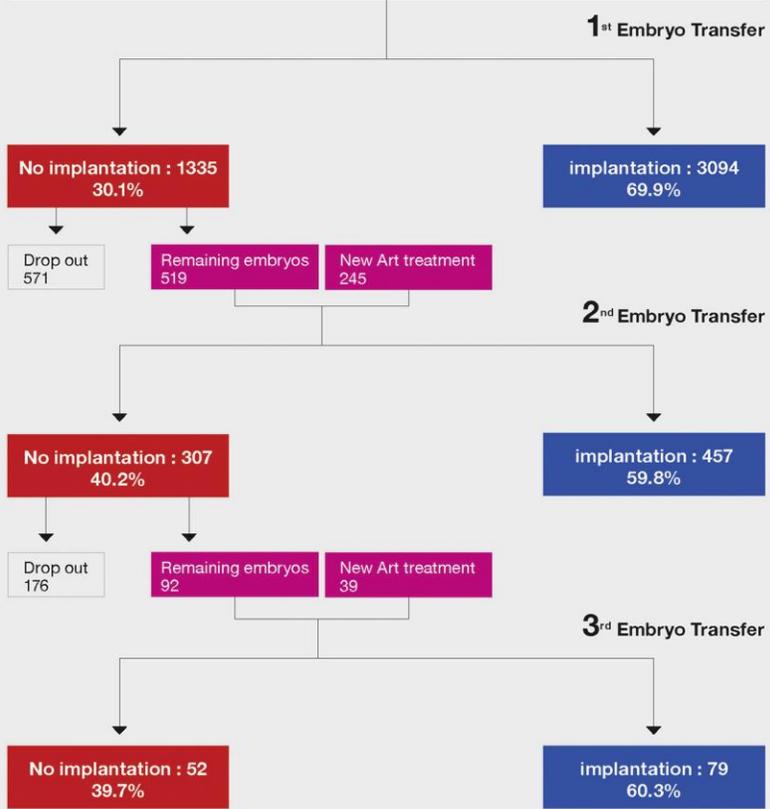
Taxa de gestação:  
9/14 (64,3%)

Taxa de implantação:  
60,7%

Taxa de aborto: 0

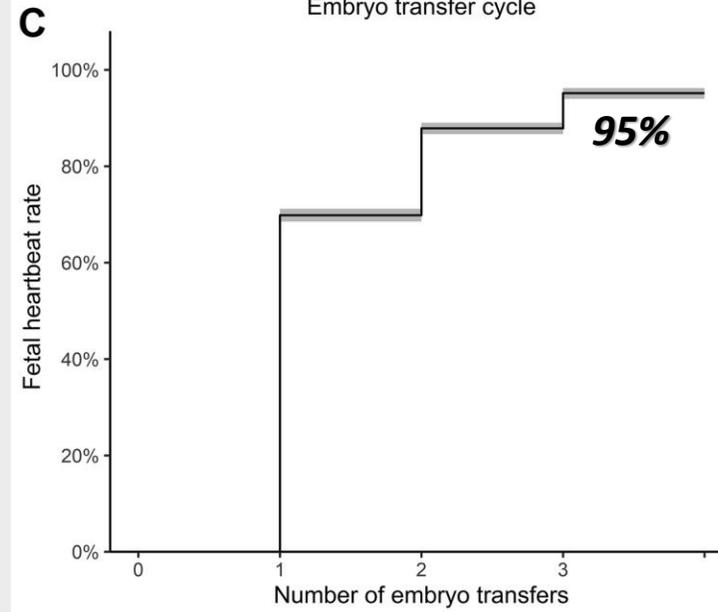
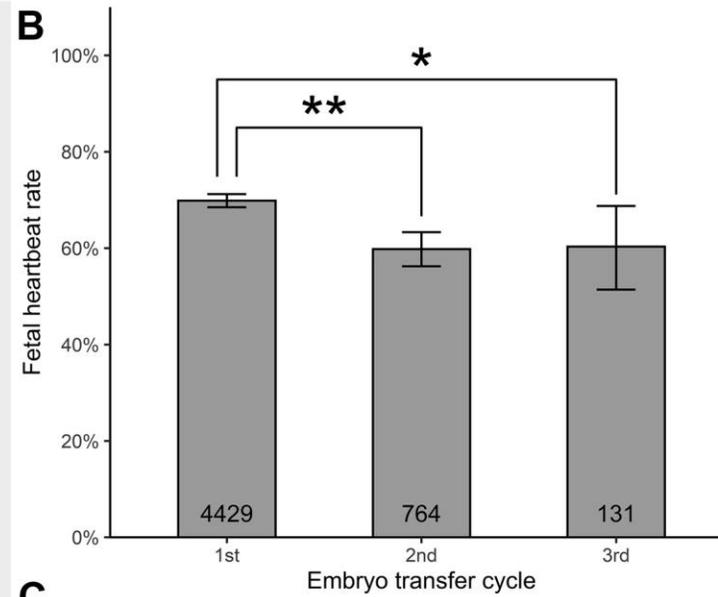
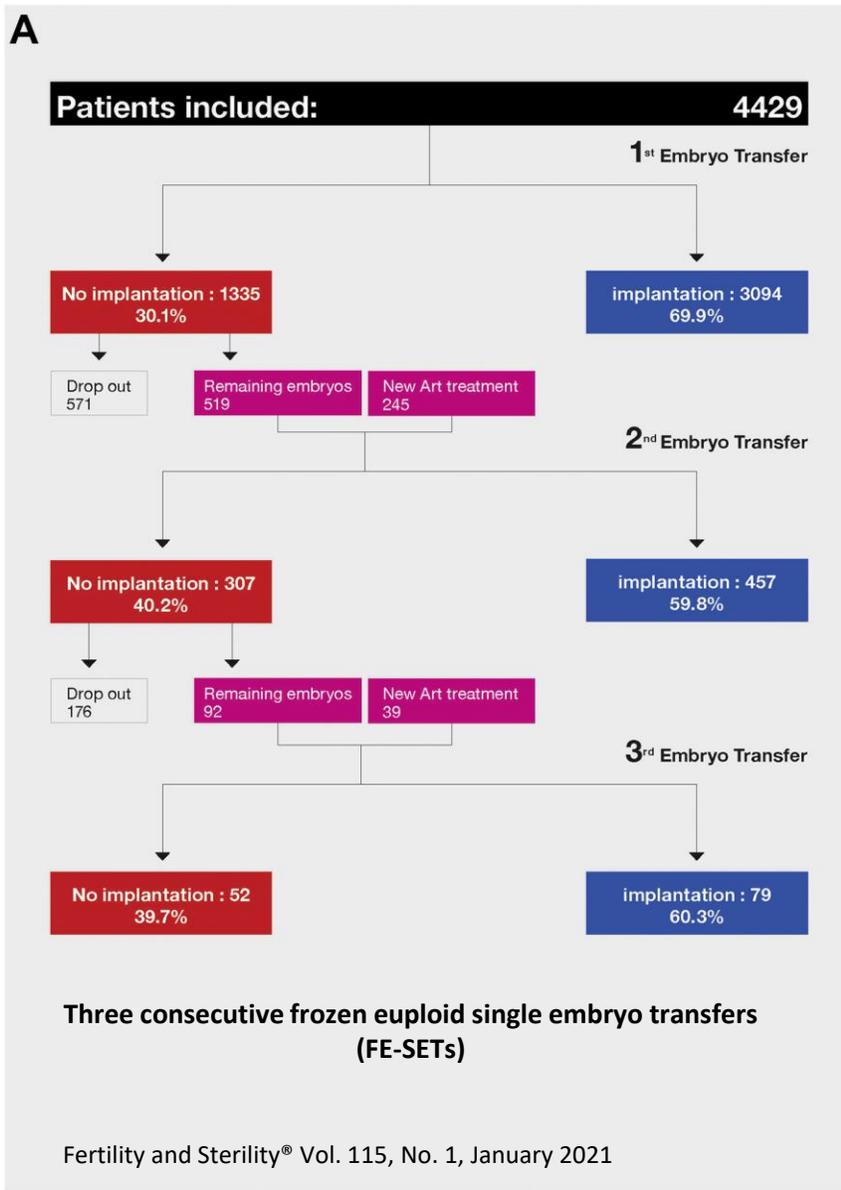
A

**Patients included: 4429**



**Three consecutive frozen euploid single embryo transfers (FE-SETs)**

Fertility and Sterility® Vol. 115, No. 1, January 2021





# A new definition of recurrent implantation failure on the basis of anticipated blastocyst aneuploidy rates across female age

Baris Ata, M.D., M.Sc.,<sup>a</sup> Erkan Kalafat, M.D., M.Sc.,<sup>a,b</sup> and Edgardo Somigliana, M.D., Ph.D.<sup>c,d</sup>

<sup>a</sup> Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, Koc University School of Medicine, Istanbul, Turkey; <sup>b</sup> Department of Statistics, Faculty of Arts and Sciences, Middle East Technical University, Ankara, Turkey; <sup>c</sup> Infertility Unit, Fondazione Istituto di Ricerca e Cura a Carattere Scientifico Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy; <sup>d</sup> Università degli Studi di Milano, Milan, Italy

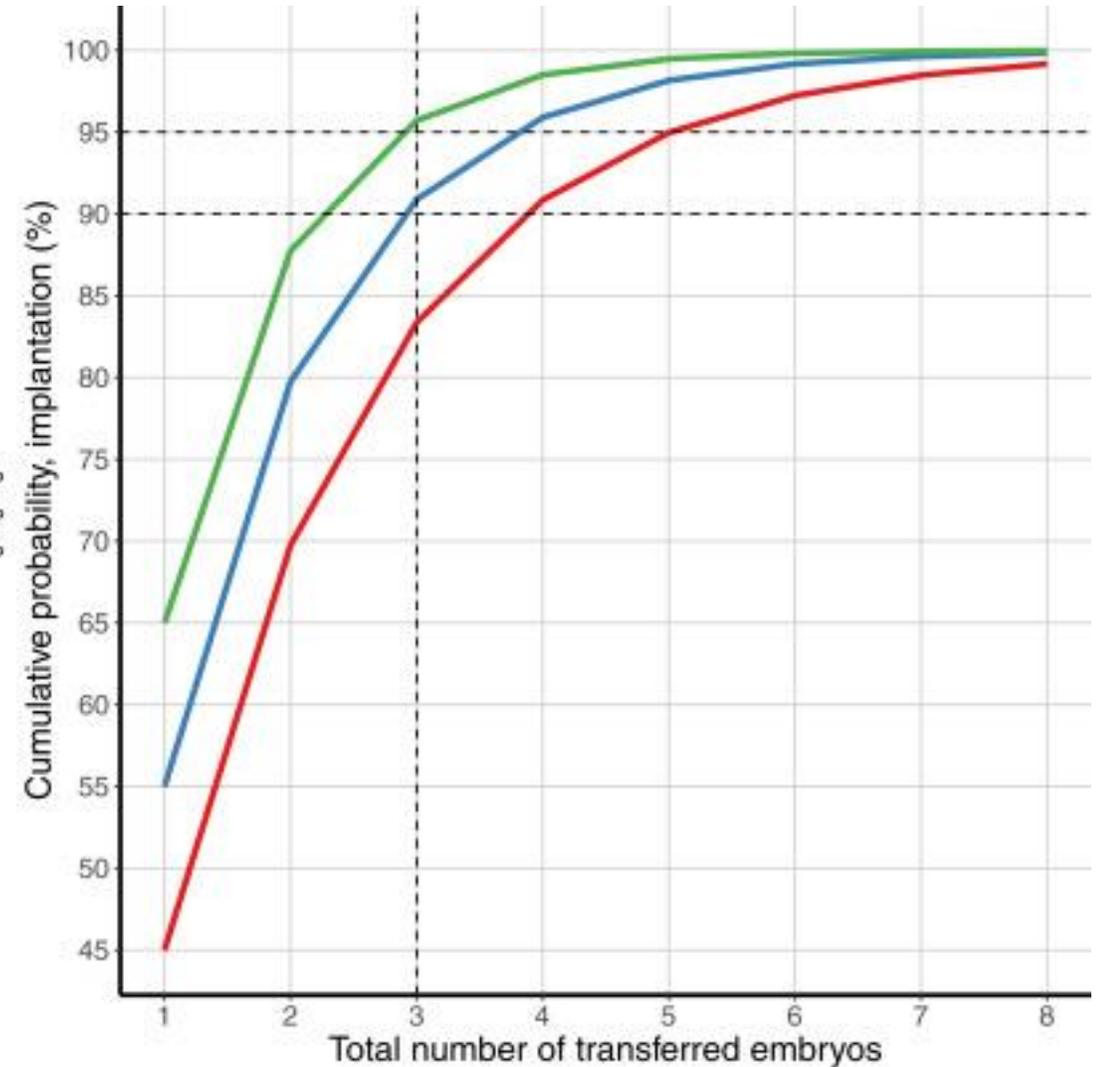
Fertility and Sterility® Vol. 116, No. 5, November 2021 0015-0282

Copyright ©2021 The Authors. Published by Elsevier Inc. on behalf of the American Society for Reproductive Medicine. This is an open access article under the CC BY license (<http://creativecommons.org/licenses/by/4.0/>).

<https://doi.org/10.1016/j.fertnstert.2021.06.045>

Transferência de 3 embriões euplóides (em média) para probabilidade de 95% de implantação

- Known Euploid ~ 45%
- Known Euploid ~ 55%
- Known Euploid ~ 65%



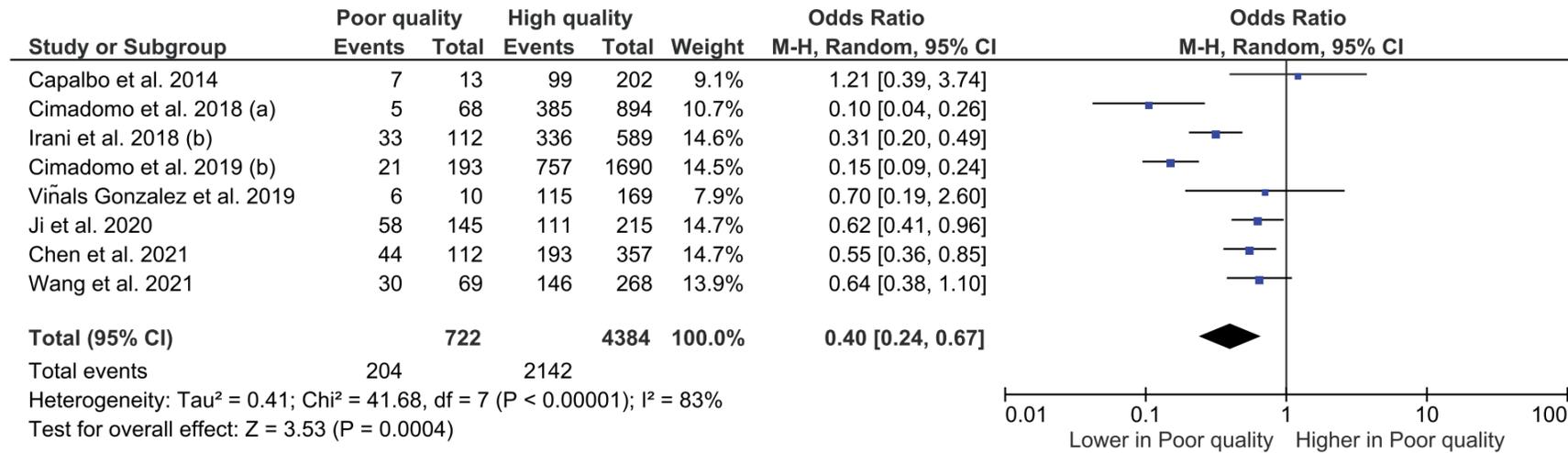
Estimation of the number of **unscreened** good quality embryos needed to be equivalent to 3 euploid ET

Age	Observed aneuploidy rate	Number of untested blastocysts
< 35	20%	4
35-37	30%	5
38-40	50%	7
41-42	70%	13
43+	85%	27

*Recurrent implantation failure. Fertil Steril 2023*

## Opening the black box: why do euploid blastocysts fail to implant? A systematic review and meta-analysis

Danilo Cimadomo <sup>1,\*</sup>, Laura Rienzi<sup>1,2</sup>, Alessandro Conforti <sup>3</sup>, Eric Forman<sup>4</sup>, Stefano Canosa<sup>5</sup>, Federica Innocenti<sup>1</sup>, Maurizio Poli<sup>6,7</sup>, Jenna Hynes<sup>4</sup>, Laura Gemmell<sup>4</sup>, Alberto Vaiarelli <sup>1</sup>, Carlo Alviggi<sup>8</sup>, Filippo Maria Ubaldi<sup>1</sup>, and Antonio Capalbo <sup>7,\*</sup>



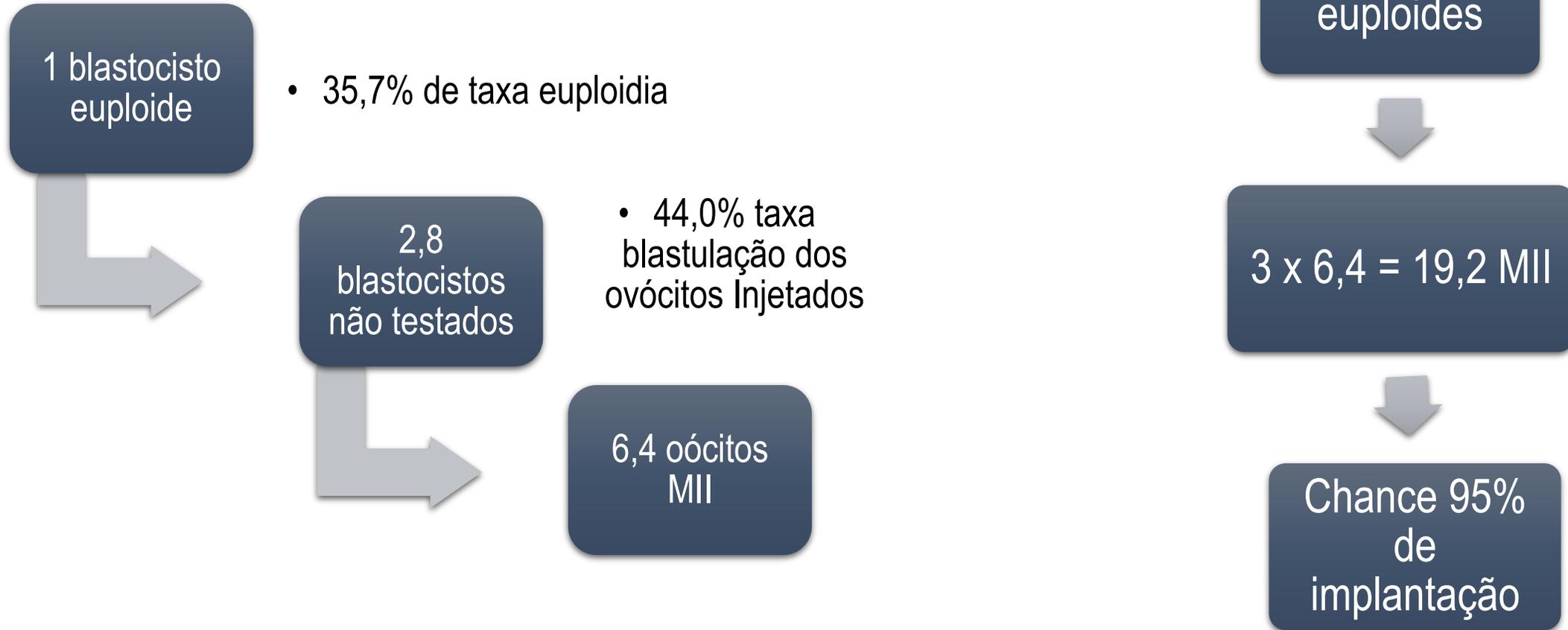
**Figure 4.** Poor-quality blastocysts (<BB) were associated with a lower live birth rate per euploid transfer than high-quality blastocysts.

# DADOS FERTILITY 2022: 1183 ciclos



Variável	Média
Idade	37,1 anos
Taxa de blastulação/ovócitos injetados	2730/6197 (44,0%)
CICLOS DE PGT (480 ciclos)	
Variável	Média
Taxa de euploidia	494/1383 (35,7%)

# DADOS FERTILITY 2022: 1183 ciclos



# DADOS FERTILITY

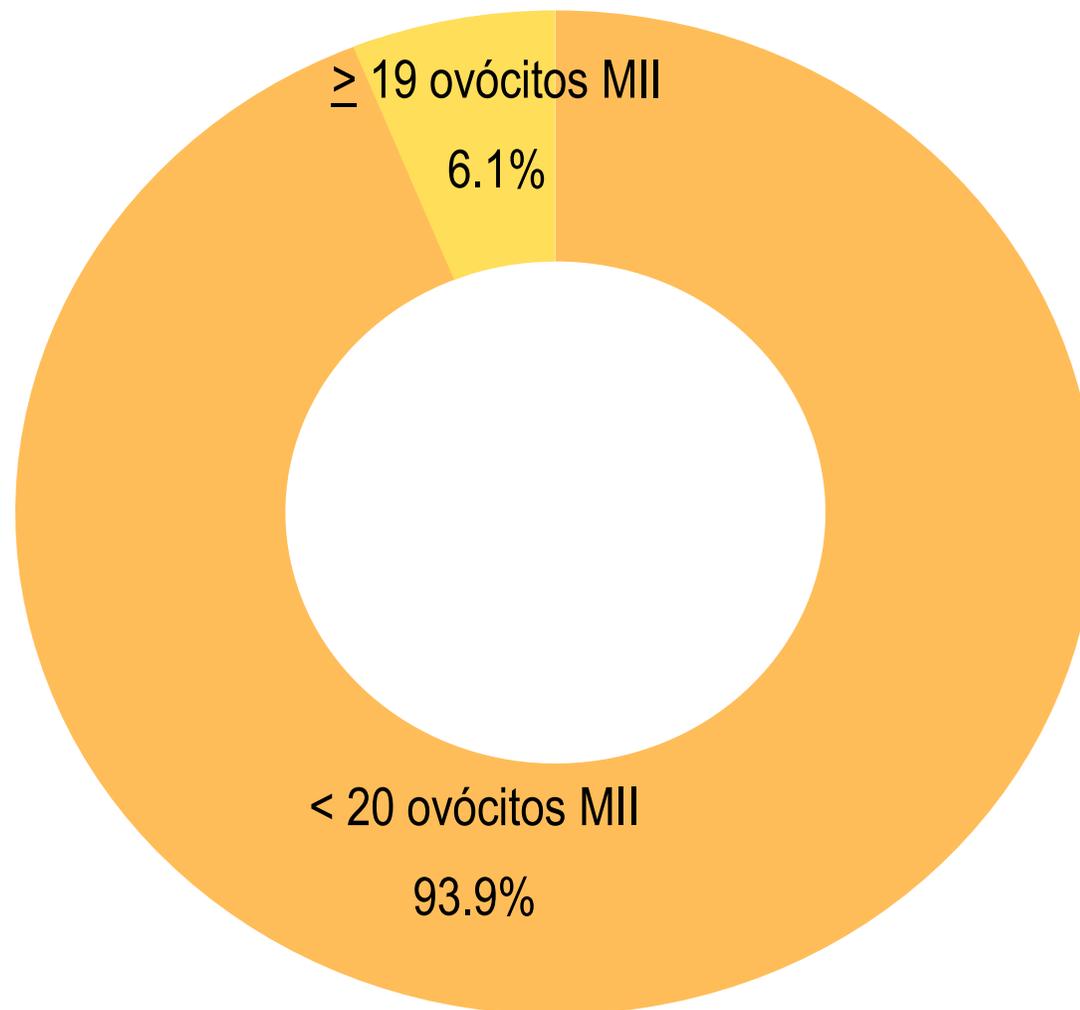


Congelamento social de ovócitos entre 2010 a 2023: 1332 ciclos de 1000 pacientes

Idade média 36,6

Número médio de ovócios  
vitrificados: 6,4

81/1332 (6,1%) congelam  
> 19 MII



## DADOS FERTILITY 2022

Idade	< 30 anos	30-35 anos	35-40 anos	> 40 anos
Taxa de blastulação/oócito injetado	50,3	46,2	41,1	32,8
Ovócitos necessários para 1 Blastocisto	1,98	2,16	2,43	3,04
Taxa de euploidia (%)	65,7	51,0	32,3	16,3
Blastocistos necessários para 1 blastocisto euploide	1,52	1,96	3,09	6,13
Ovócitos necessários para 1 blastocisto euploide	3,00	4,23	7,52	18,6
Ovócitos necessários para 3 blastocistos euploides	9,02	12,7	22,5	55,9

## DADOS FERTILITY 2022

Idade	< 30 anos	30-35 anos	35-40 anos	> 40 anos
Taxa de blastulação/oócito injetado	50,3	46,2	41,1	32,8
Ovócitos necessários para 1 Blastocisto	1,98	2,16	2,43	3,04
Taxa de euploidia (%)	65,7	51,0	32,3	16,3
Blastocistos necessários para 1 blastocisto euploide	1,52	1,96	3,09	6,13
Ovócitos necessários para 1 blastocisto euploide	3,00	4,23	7,52	18,6
Ovócitos necessários para 3 blastocistos euploides	9,02	12,7	22,5	55,9

## CRIOPRESERVAÇÃO FERTILITY 2010-2023

Criopreservação social (n)	66	311	640	315
Número médio de ovócitos congelados	10,6	8,5	6,3	3,5
Pacientes que recuperaram nível adequado de ovócito (n)	32	81	14	0
Taxa de pacientes com recuperação adequada de ovócitos (%)	48,4	26,0	2,18	0

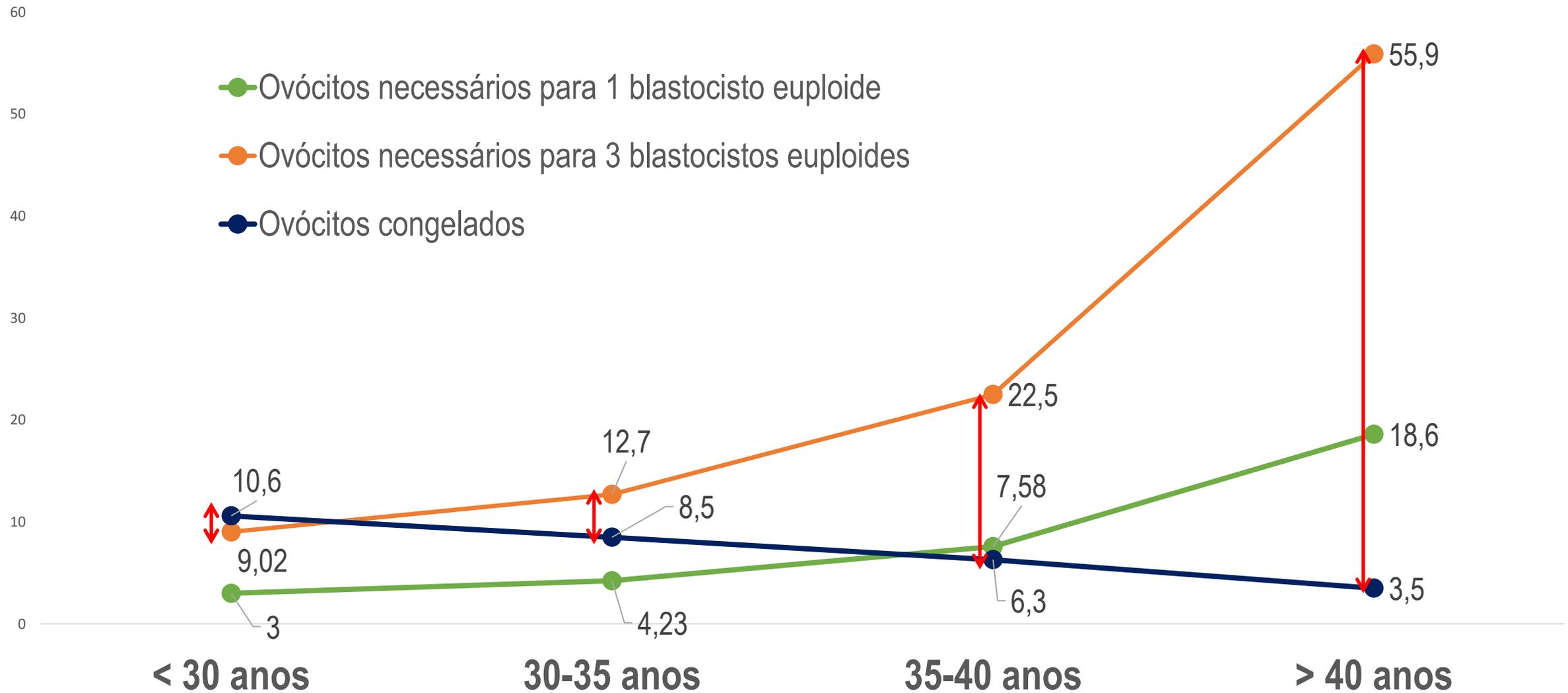
## DADOS FERTILITY 2022

Idade	< 30 anos	30-35 anos	35-40 anos	> 40 anos
Taxa de blastulação/oócito injetado	50,3	46,2	41,1	32,8
Ovócitos necessários para 1 Blastocisto	1,98	2,16	2,43	3,04
Taxa de euploidia (%)	65,7	51,0	32,3	16,3
Blastocistos necessários para 1 blastocisto euploide	1,52	1,96	3,09	6,13
Ovócitos necessários para 1 blastocisto euploide	3,00	4,23	7,52	18,6
Ovócitos necessários para 3 blastocistos euploides	9,02	12,7	22,5	55,9

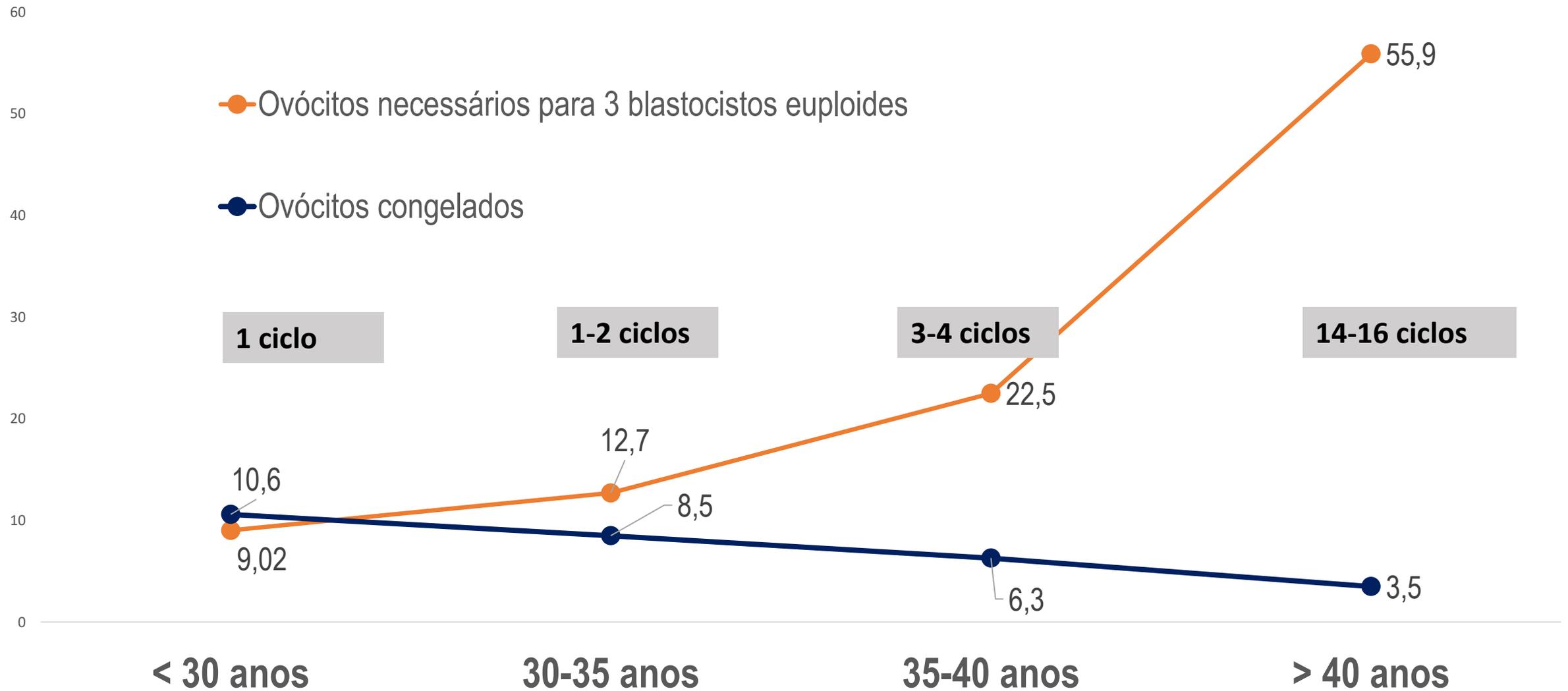
## CRIOPRESERVAÇÃO FERTILITY 2010-2023

Criopreservação social (n)	66	311	640	315
Número médio de ovócitos congelados	10,6	8,5	6,3	3,5
Pacientes que recuperaram nível adequado de ovócito (n)	32	81	14	0
Taxa de pacientes com recuperação adequada de ovócitos (%)	<b>48,4</b>	<b>26,0</b>	<b>2,18</b>	<b>0</b>

# OVÓCITOS NECESSÁRIOS vs OVÓCITOS VITRIFICADOS (DADOS FERTILITY)



# OVÓCITOS NECESSÁRIOS vs OVÓCITOS VITRIFICADOS (DADOS FERTILITY)





### ***Direção***

Assumpto Iaconelli Jr.  
Edson Borges Jr.



### ***Laboratório de FIV***

Beatriz Muller  
Livia Silvia Vingris  
Lyvia E. Busso  
Patrícia Guilherme  
Rodrigo Rosa Provenza  
Tatiana Nunes de Melo



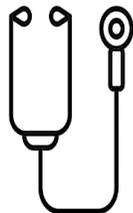
### ***Laboratório de Andrologia***

Rodrigo Rosa Provenza  
Debora Hernandez



### ***Pesquisa e Educação Instituto Sapientiae***

Amanda Setti  
Christina Morishima  
Daniela Braga  
Maite del Collado  
Raphaella Figueiredo



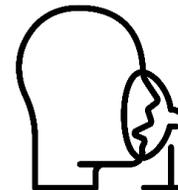
### ***Corpo Clínico***

Carla Iaconelli  
Carolina Rossoni  
Edward Carrilho  
Fernanda Montenegro  
Fábio Biaggioni Lopes  
Mário Firmino  
Mauro Bibancos  
Natalia G. Tannous  
Natália Martelli



### ***Psicologia***

Rose M. Melamed



### ***Anestesiologia***

Marcelo Torres  
e Equipe



### ***Nutrição***

Gabriela Halpern



### **Enfermagem**

Alcione Bispo  
Gabriela Lima Almeida  
Larissa Rodrigues Gonçalves  
Letícia Firmino  
Maria Regina S. da Silva  
Patrícia Castro  
Vera Lucia Alves



### **Suporte**

Genilson Souza  
Hugo Oliveira dos Reis  
Janaína Gomes Pinho da Silva  
Jicélia Santos  
João Lucas Ramos  
Joice Procópio  
José Roberto Duarte  
Leidivânia Cerqueira Alves  
Marcela Rosa Anjos  
Sérgio Luis da Silva  
Simone de S. Carvalho  
Zenilda da Conceição Souza



### **Administração**

Ana Carolina Santos  
Josué B. Santos  
Katia Rodrigues  
Lucácio de S. Anjos  
Margaret Meira



### **Informática**

Anderson Veloso  
Marcelo Alexandre Baptista



### **Farmácia**

Maria das N. Fernandes



### **Comunicação e Marketing**

Larissa Nishiwaki  
Lígia Porfirio



# Obrigado!

Dr. Edson Borges Jr.  
[www.fertility.com.br](http://www.fertility.com.br)  
E-mail: [edson@fertility.com.br](mailto:edson@fertility.com.br)  
Instagram [@dr\\_edson\\_borges\\_jr](https://www.instagram.com/dr_edson_borges_jr)

