



Criopreservação Social de Óvulos: informação, indicação e expectativas



EDSON BORGES JR.

Fertility – Centro de Fertilização Assistida

Instituto Sapientiae – Centro de Estudos e Pesquisa em

Reprodução Assistida

Sao Paulo, Brazil

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† **12.11.2014**

Recibido de Médico en la Universidad de Buenos Aires, con Diploma de Honor, fue entre otras cosas Director Médico y Científico de CEGYR, Ex Presidente de SAMeR (Sociedad Argentina de Medicina Reproductiva), Ex Presidente de SAEGRE (Sociedad Argentina de Endocrinología Reproductiva, Ex Presidente de ALMER (Asociación Latinoamericana de Medicina Reproductiva), Asesor Científico de Matercell y Presidente de ABC Cordón (Asociación de Bancos de Cordón Umbilical de Argentina).



Esta apresentação pode ser vista no nosso website
Esta presentación se puede ver en nuestro website

<http://fertility.com.br/producao-cientifica-2015/>



The screenshot shows a web browser window displaying the Fertility website. The address bar shows the URL <http://fertility.com.br/producao-cientifica-2015/>. The page header includes the Fertility logo, contact information (+55 11 3018.8181, contato@fertility.com.br), and a search bar. The navigation menu is visible, with 'ÁREA MÉDICA' highlighted. The main content area features a large image of a person's hands holding a small blue object. Below the image, the breadcrumb trail reads 'Home > Produção Científica 2015'. The 'ÁREA MÉDICA' section lists activities from 2010 to 2015. The 'PRODUÇÃO CIENTÍFICA 2015' section includes 'Publicações em Revistas Científicas' and 'Aulas Ministradas', both with expandable options.

Home > Produção Científica 2015

ÁREA MÉDICA

Atividades

- 2015
- 2014
- 2013
- 2012
- 2011
- 2010

PRODUÇÃO CIENTÍFICA 2015

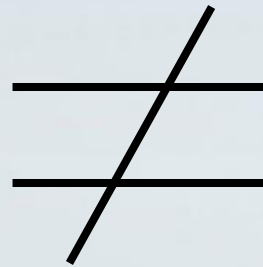
Publicações em Revistas Científicas

Aulas Ministradas

Criopreservação Social de Óvulos

- *Fertilidade x Idade*
- *Informação*
- *Eficiência*
- *Segurança*
- *Indicação e expectativas*

PROJETOS DISTINTOS



Para a mulher de hoje, o homem e o casamento não são mais essenciais para que ela exerça a maternidade!

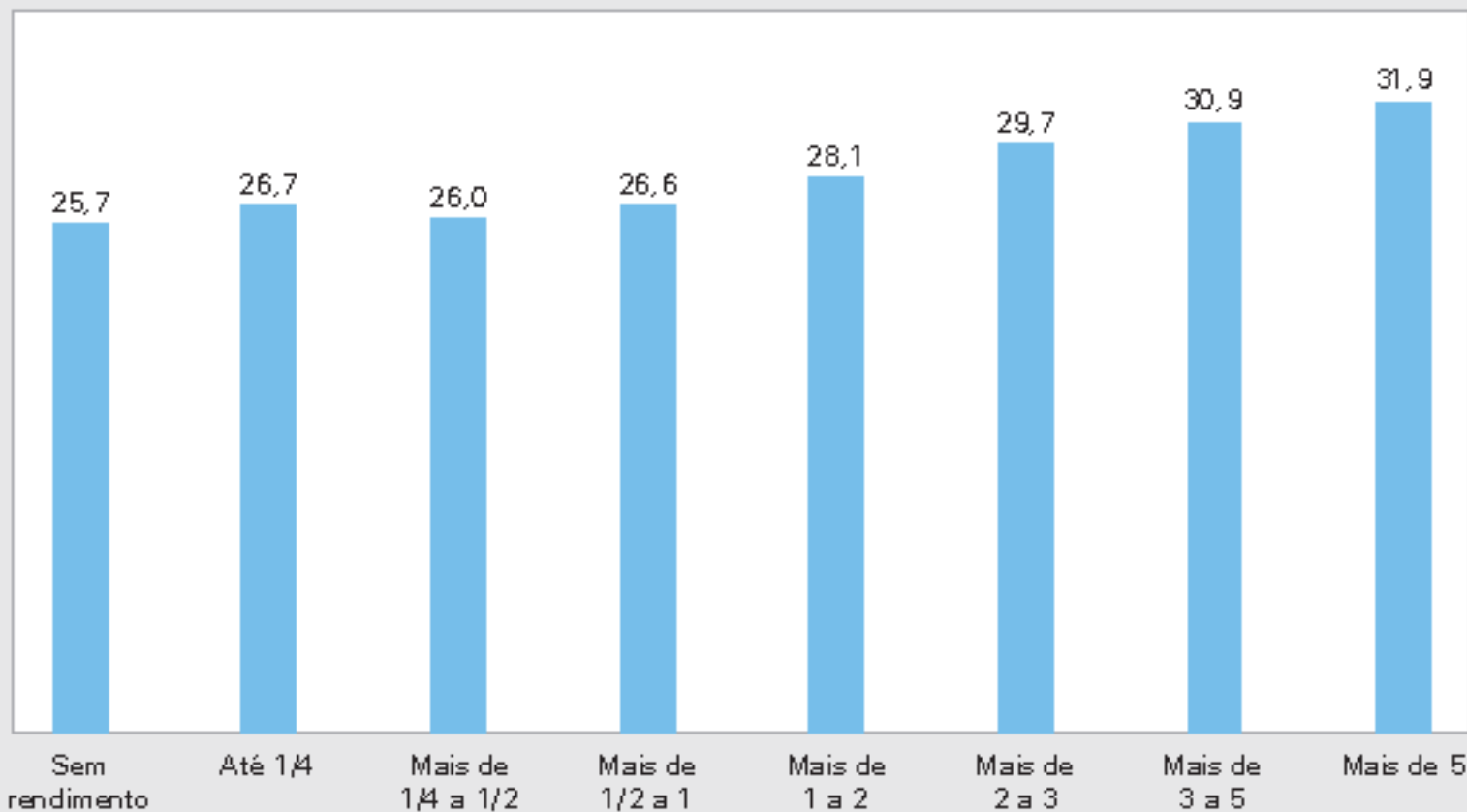
Tabela 9 - Taxas de fecundidade total, por nível de instrução das mulheres, segundo as Grandes Regiões - 2000/2010

Grandes Regiões	Taxa de fecundidade total, por nível de instrução das mulheres							
	Sem instrução e fundamental incompleto		Fundamental completo e médio incompleto		Médio completo e superior incompleto		Superior completo	
	2000	2010	2000	2010	2000	2010	2000	2010
Brasil	3,43	3,09	2,25	2,54	1,46	1,34	1,13	1,14
Norte	4,23	3,67	2,50	2,76	1,73	1,52	1,30	1,36
Nordeste	3,65	3,12	1,94	2,33	1,48	1,38	1,14	1,24
Sudeste	3,16	2,69	2,22	2,16	1,42	1,29	1,10	1,10
Sul	3,17	2,84	2,21	2,46	1,44	1,32	1,13	1,15
Centro-Oeste	3,10	2,96	2,30	2,55	1,51	1,44	1,30	1,22

Fonte: IBGE, Censo Demográfico 2000/2010.

Nota: Níveis de instrução de 2000 e 2010 harmonizados.

Gráfico 30 - Idade média da fecundidade, segundo as classes de rendimento nominal mensal domiciliar *per capita* - Brasil - 2010




Fonte: IBGE, Censo Demográfico 2010.

GESTAÇÃO

**PRESERVAÇÃO DA
FERTILIDADE**

*oocyte cryopreservation for
age-related fertility loss*
**ESHRE Task Force on Ethics
and Law, 2012**



TRANSFERÊNCIA DE
EMBRIÕES EM PACIENTES
MAIS VELHAS

**CRIOPRESERVAÇÃO DE
OÓCITOS JOVENS**

IDENTIFICAÇÃO DO RISCO

CRIOPRESERVAÇÃO

IDENTIFICAÇÃO DO RISCO

DECISÃO

IDADE

INFORMAÇÃO

Questões éticas

Questões psicológicas

Questões financeiras

TEMPO
Saber enquanto jovem da procriação tardia

Mídia: informação distorcida

FERTILIDADE vs. IDADE

FERTILIDADE vs. IDADE

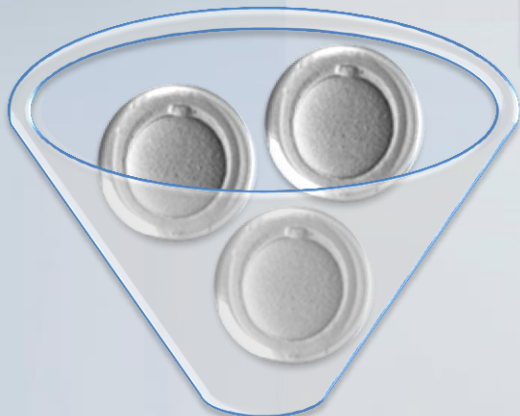


IDADE

- Atraso no primeiro parto

CAPACIDADE REPRODUTIVA

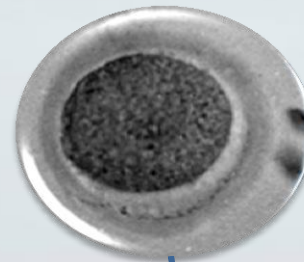
- Queda na qualidade e quantidade dos gametas



Menopausa



Defeitos extra
citoplasmáticos

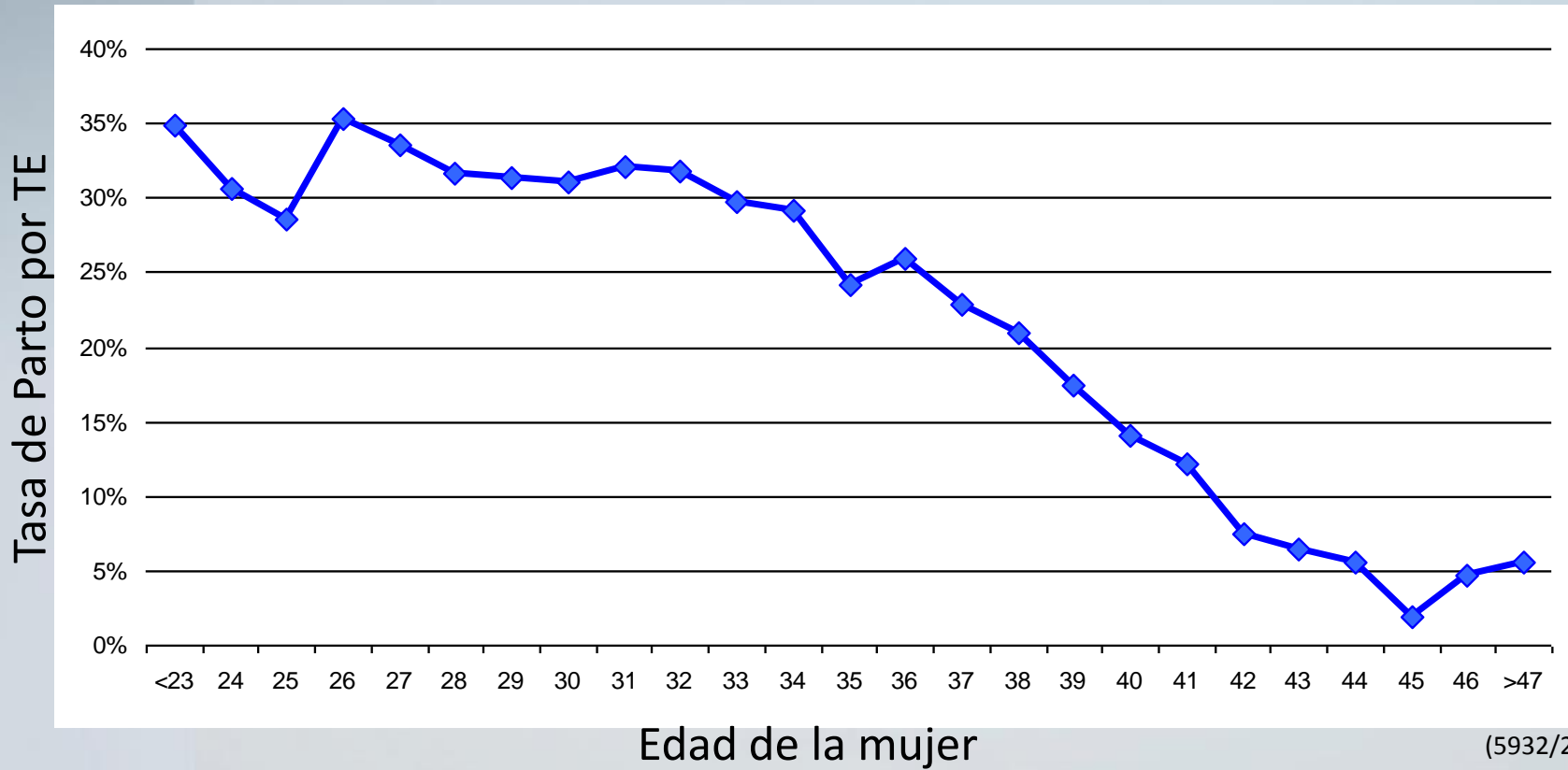


Defeitos intra
citoplasmáticos



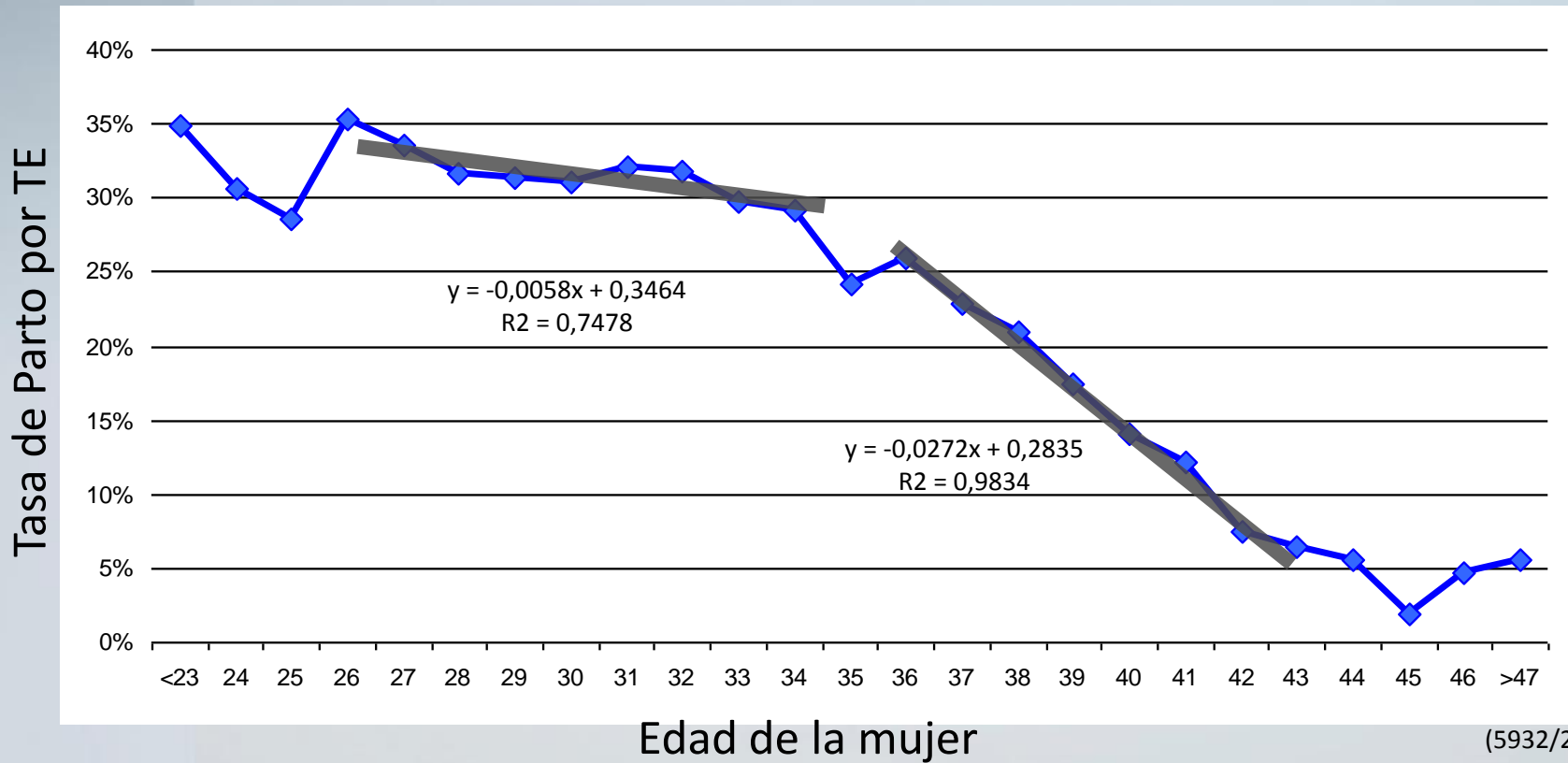
Aneuploidia: não
integridade dos fusos

Efecto de la edad de la mujer en la tasa de parto (2010)



(5932/21545)

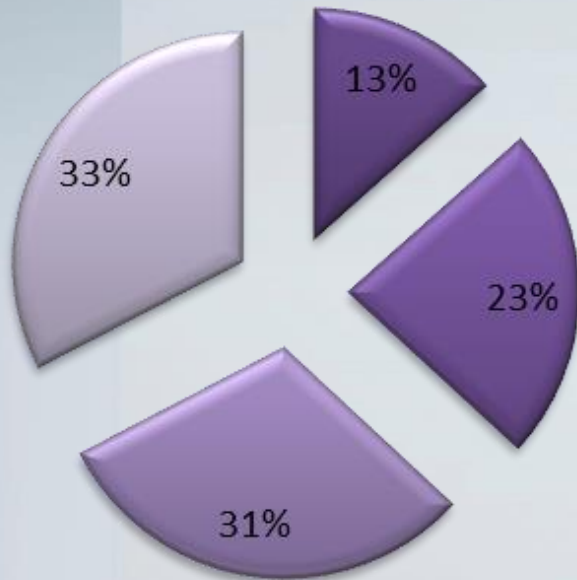
Efecto de la edad de la mujer en la tasa de parto (2010)



(5932/21545)

FERTILIDADE vs. IDADE

Número de ciclos por faixa etária



**MÉDIA DA IDADE:
36,5 ANOS**

- ≤ 31 Anos
- 32-35 Anos
- 36-39
- >39

64,0% DAS
PACIENTES

> 35 ANOS
DE IDADE

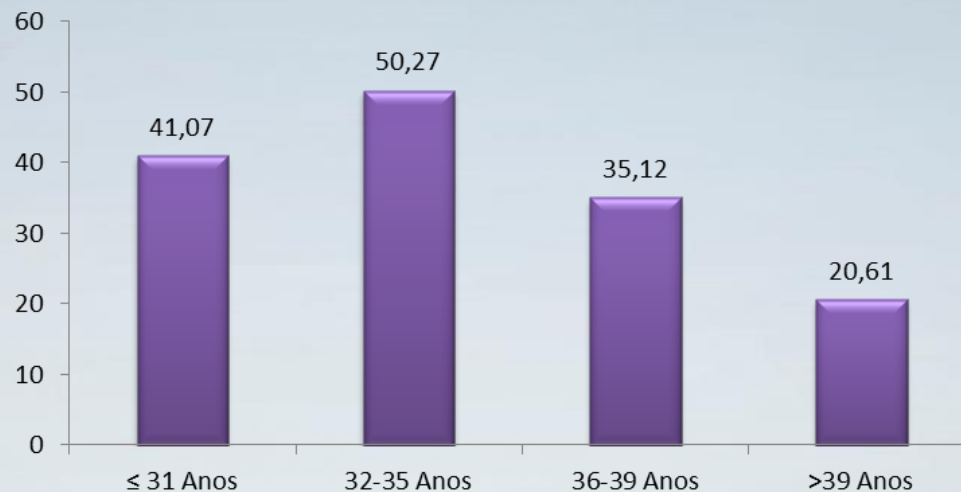
33,0 % DAS
PACIENTES

> 39 ANOS
DE IDADE

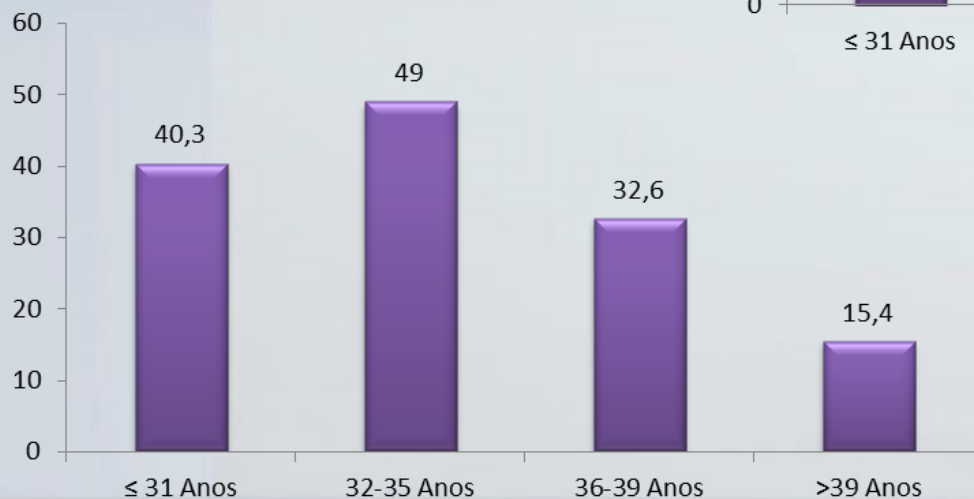
DADOS FERTILITY 2014

FERTILIDADE vs. IDADE

Taxa de gestação por ciclo transferido (%)




Taxa de implantação



DADOS FERTILITY 2014

INFORMAÇÃO

MATERNIDADE TARDIA E MÍDIA

THE  TIMES
Health News

News | Opinion | Business | Money | Sport | Life | Arts | Puzzles | Papers

Welcome to your preview of The Times

Career comes first as young women consider egg freezing

THE  TIMES
Health

News | Opinion | Business | Money | Sport | Life | Arts | Puzzles | Papers

Welcome to your preview of The Times

Is egg freezing the future for women?



Lucy Bannerman
Published at 12:01AM, November 26 2012

1 of 3

THE  SUNDAY TIMES

NEWS | SPORT | BUSINESS | COMMENT | NEWS REVIEW | CULTURE | STYLE

Welcome to your preview of the Sunday Times

HOME | MAGAZINE | FEATURES

FEATURES

Ice, ice babies

Women are turning to egg freezing as a form of 'fertility insurance'. What are the social consequences of delayed motherhood?

Serena Kuchinsky Published: 7 April 2013
Comment (0) Print



Women are turning to egg freezing as a form of fertility insurance. (Alamy)

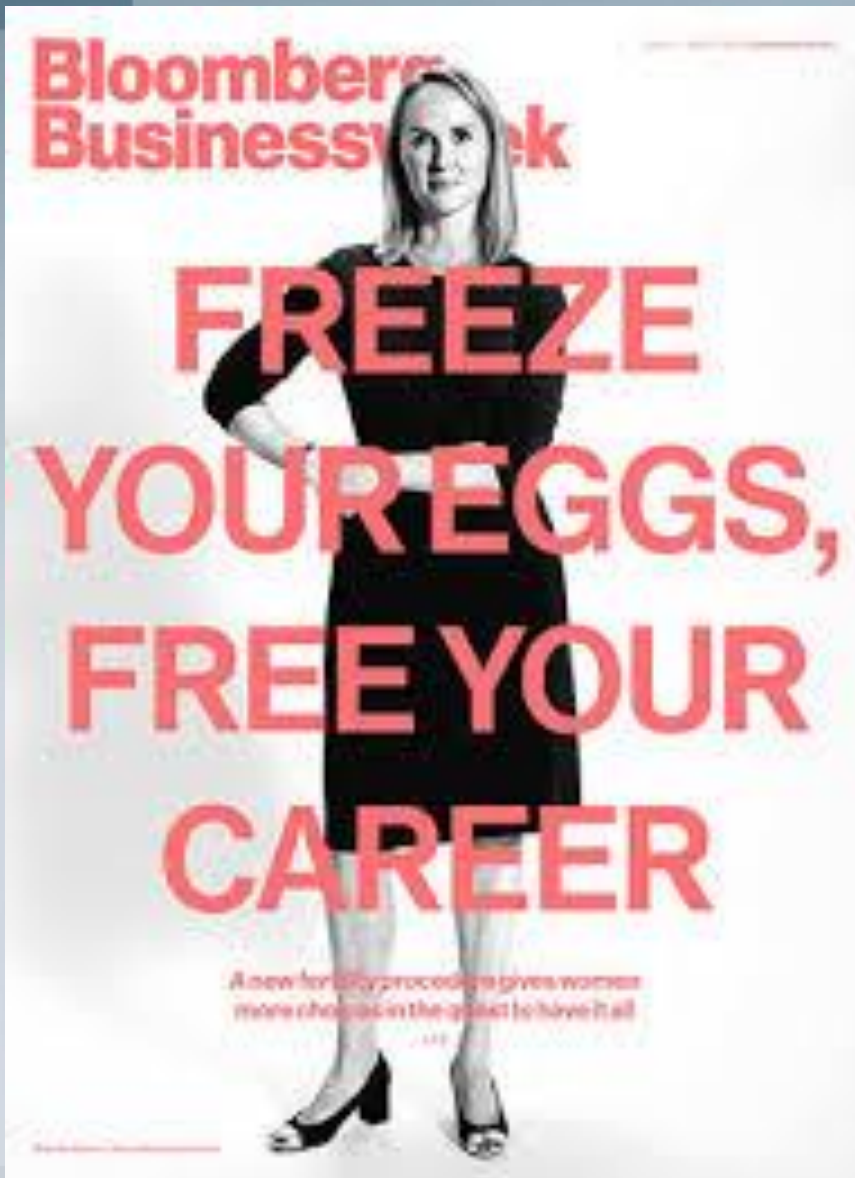
THE  TIMES
Health News

News | Opinion | Business | Money | Sport | Life | Arts | F

Welcome to your preview of The Times

Women who delay motherhood 'improve chances by freezing eggs in early thirties'





10% de aumento nos ganhos/salários por ano que retarda a maternidade

What is the quality of information on social oocyte cryopreservation provided by websites of Society for Assisted Reproductive Technology member fertility clinics?

Sarit Avraham, M.D.,^a Ronit Machtinger, M.D.,^a Tal Cahan, M.D.,^a Amit Sokolov, B.Sc.,^b Catherine Racowsky, Ph.D.,^c and Daniel S. Seidman, M.D., M.M.Sc.^a

- 200 / 387 clínicas SART oferecem SOC
- 147 com informações sobre SOC
- Informação: score 0 – 13
- Excelente > 9; Moderado: 5 -8; Pobre ≥ 4

□ **RESULTADO: 3,4 \pm 2,1 (2-11)**

Social egg freezing: the prospect of reproductive 'immortality' or a dangerous delusion?

Reproductive BioMedicine Online (2011) 23, 334-340

Gillian M Lockwood

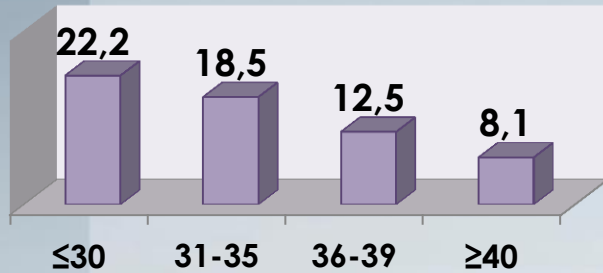
Midland Fertility Services, Aldridge, WS9 8LT, UK
E-mail address: Gillian.lockwood@midlandfertility.com

- *Despite educational campaigns to highlight the risks associated with delaying procreation, the public are more influenced by media images of celebrities that suggest that late motherhood is readily achieved if a healthy lifestyle is pursued – “40 is the new 30”*

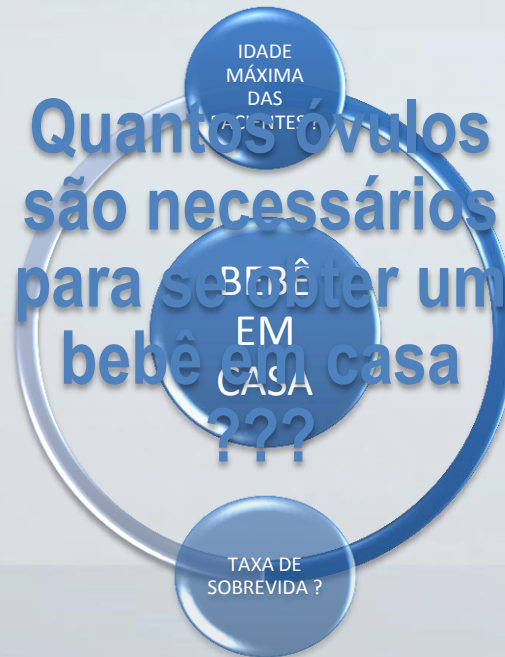
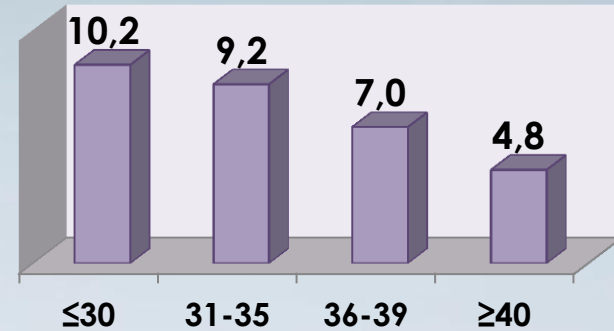
EFICIÊNCIA

DADOS FERTILITY 2014

Nº de folículos puncionados



Nº de oócitos injetados





INNOVATION FERTILITY PRESERVATION AND IVF

- CUTTING EDGE FERTILITY CARE.

Egg Freezing Success Estimator Based on the Number of Eggs Frozen (Thawed)

[Print](#) | [Email](#)

Egg Freezing Success Estimator Based on the Number of Eggs Frozen (Thawed)

Freezing Method Vitrification Slow Freezing

Patient's Age at Freezing

Number of Oocytes

Livebirth Probability 19.3 %

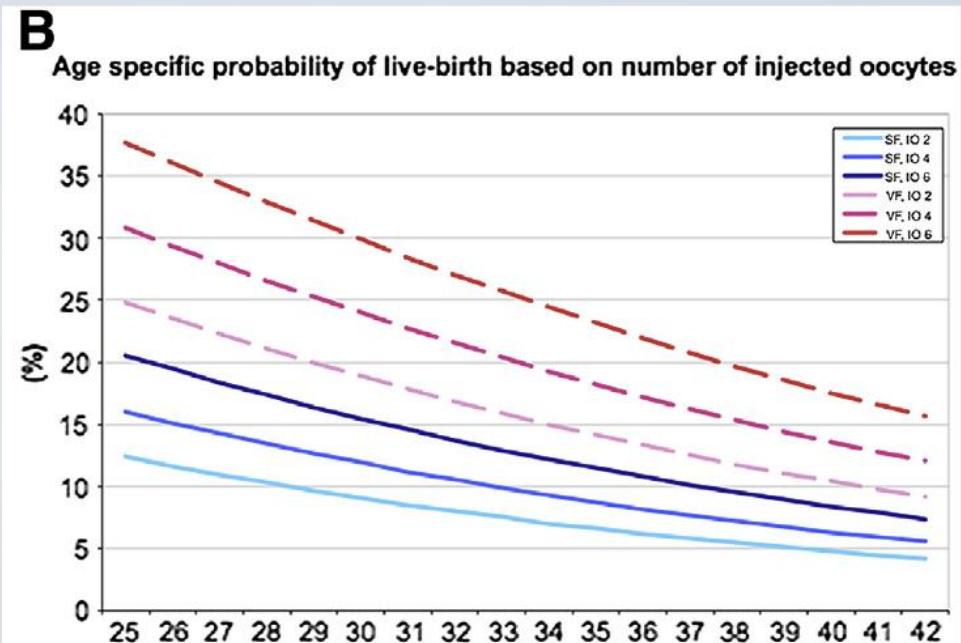
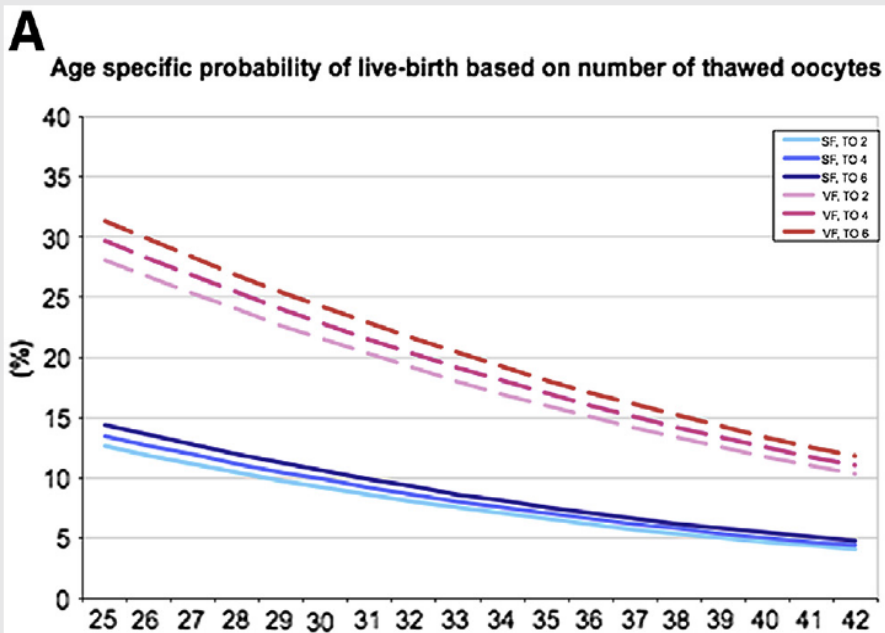
Calculate

<http://i-fertility.net/index.php/probability-calc>

Age-specific probability of live birth with oocyte cryopreservation: an individual patient data meta-analysis

Aylin Pelin Cil, M.D.,^{a,b} Heejung Bang, Ph.D.,^c and Kutluk Oktay, M.D., F.A.C.O.G.^a

Fertility and Sterility® Vol. 100, No. 2, August 2013 0015-0282/\$36.00
Copyright ©2013 American Society for Reproductive Medicine, Published by Elsevier Inc.
<http://dx.doi.org/10.1016/j.fertnstert.2013.04.023>



Age-specific probability of live birth with oocyte cryopreservation: an individual patient data meta-analysis

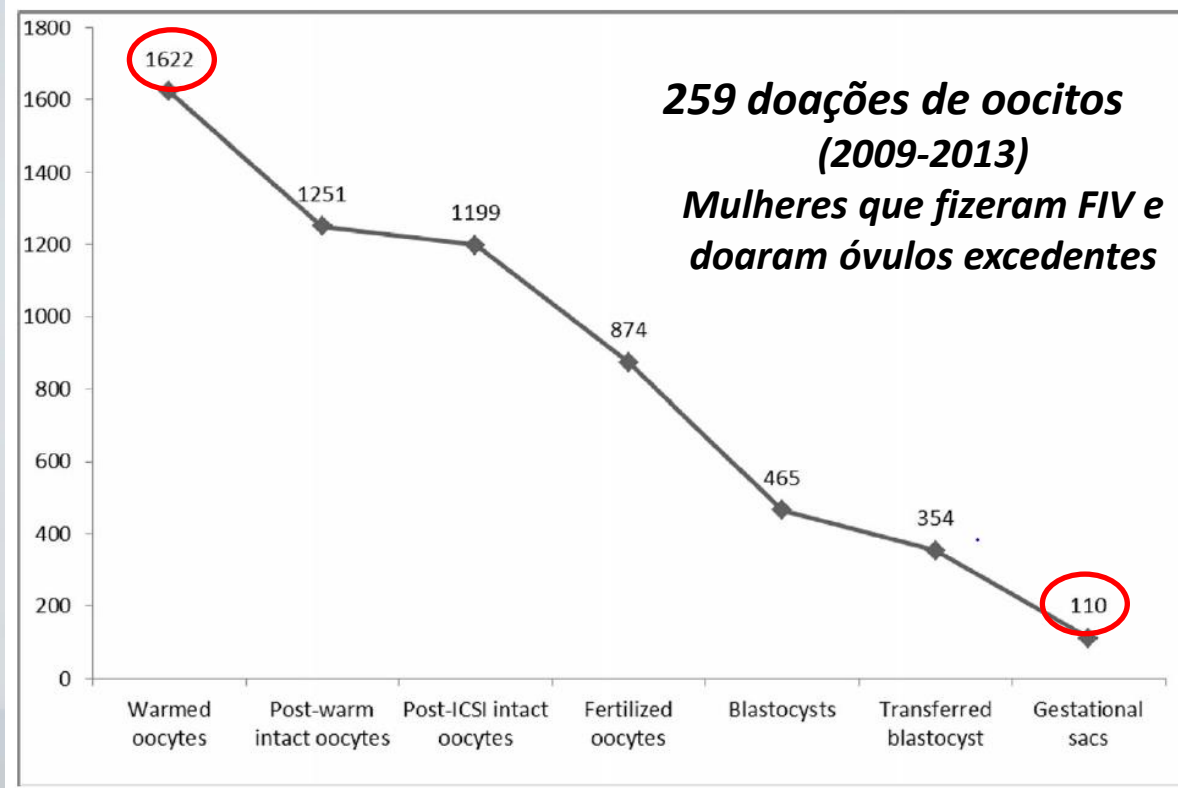
Aylin Pelin Cil, M.D.,^{a,b} Heejung Bang, Ph.D.,^c and Kutluk Oktay, M.D., F.A.C.O.G.^a

Fertility and Sterility® Vol. 100, No. 2, August 2013 0015-0282/\$36.00
Copyright ©2013 American Society for Reproductive Medicine, Published by Elsevier Inc.
<http://dx.doi.org/10.1016/j.fertnstert.2013.04.023>

25 ANOS	6 OÓCITOS VITRIFICADOS	BEBÊ EM CASA: 31,3%	19,1 OÓCITOS PARA 1 BEBÊ EM CASA
32 ANOS	6 OÓCITOS VITRIFICADOS	BEBÊ EM CASA: 21,6%	27,7 OÓCITOS PARA 1 BEBÊ EM CASA
37 ANOS	6 OÓCITOS VITRIFICADOS	BEBÊ EM CASA: 16,1%	37,2 OÓCITOS PARA 1 BEBÊ EM CASA
42 ANOS	6 OÓCITOS VITRIFICADOS	BEBÊ EM CASA: 11,8%	50,8 OÓCITOS PARA 1 BEBÊ EM CASA

The efficiency of a donor-recipient program using infertile donors' egg cryo-banking: A Brazilian reality

Rita de Cássia Sávio Figueira · Amanda S. Setti ·
Daniela P. A. F. Braga · Assumpto Iaconelli Jr ·
Edson Borges Jr



The efficiency of a donor-recipient program using infertile donors' egg cryo-banking: A Brazilian reality

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Daniela P. A. F. Braga · Assumpto Iaconelli Jr ·
Edson Borges Jr



Table 1 Study design, vitrification method and donors' characteristics in the analyzed studies and in our egg-donation program

Study	Year	Method	Design	Donor age range	Mean age
Cobo et al.	2008	Cryotop	Prospective randomized	18–35	26.7±3.6
Nagy et al.	2009	Cryotop	Prospective	<35	-
Cobo et al.	2010	Cryotop	Prospective randomized	<35	26.7±3.9
Garcia et al.	2011	Cryotop	Prospective	18–34	-
Trokoudes et al.	2011	Cryotop	Retrospective	22–35	29.3±3.6
Stoop et al.	2012	CBS high security	Prospective	<35	26.4±4.8
Solé et al.	2013	Cryotop	Prospective	18–34	26.1±4.3
Our experience	2009–2013	Cryotop	Retrospective	21–35	30.4±3.4

The efficiency of a donor-recipient program using infertile donors' egg cryo-banking: A Brazilian reality

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Edson Borges Jr



Table 2 Oocyte donation and survival rates in the analyzed studies and in our egg-donation program

Study	Year	Recipients (n)	Warmed oocytes (n)	Survival rate (%)
Cobo et al.	2008	30	231	224/231 (86.9)
Nagy et al.	2009	19	153	134/153 (89.0)
Cobo et al.	2010	600	3826	3039/3826 (92.5)
Garcia et al.	2011	119	283	253/283 (89.4)
Trokoudes et al.	2011	77	210	192/210 (91.4)
Stoop et al.	2012	20	123	111/123 (90.2)
Solé et al.	2013	198	-	- (85.6)
Our experience	2009–2013	259	1622	1251/1622 (77.1)

The efficiency of a donor-recipient program using infertile donors' egg cryo-banking: A Brazilian reality

Rita de Cássia Sávio Figueira · Amanda S. Setti ·
Daniela P. A. F. Braga · Assumpto Iaconelli Jr ·
Edson Borges Jr



Table 3 Oocyte donation cycles' outcomes in the analyzed studies and in our egg-donation program

Study	Year	Fertilization rate (%)	Blastocyst rate (%)	Implantation rate (%)		Clinical pregnancy/warmed oocyte
				Cleavage stage	Blastocyst stage	
Cobo et al.	2008	76.3	48.7	-	40.8	15/231 (6.5)
Nagy et al.	2009	87.0	68.0	-	55.3	15/153 (9.8)
Cobo et al.	2010	74.2	-	39.9	-	148/3826 (3.9)
Garcia et al.	2011	76.1	41.3	-	43.9	21/283 (7.4)
Trokoudes et al.	2011	84.4	-	24.7	-	20/210 (9.5)
Stoop et al.	2012	77.5	-	33.3	-	10/123 (8.1)
Solé et al.	2013	78.2	-	34.0	-	53/990 (5.4)
Our experience	2009–2013	72.9	53.2	-	31.1	87/1622 (5.4)

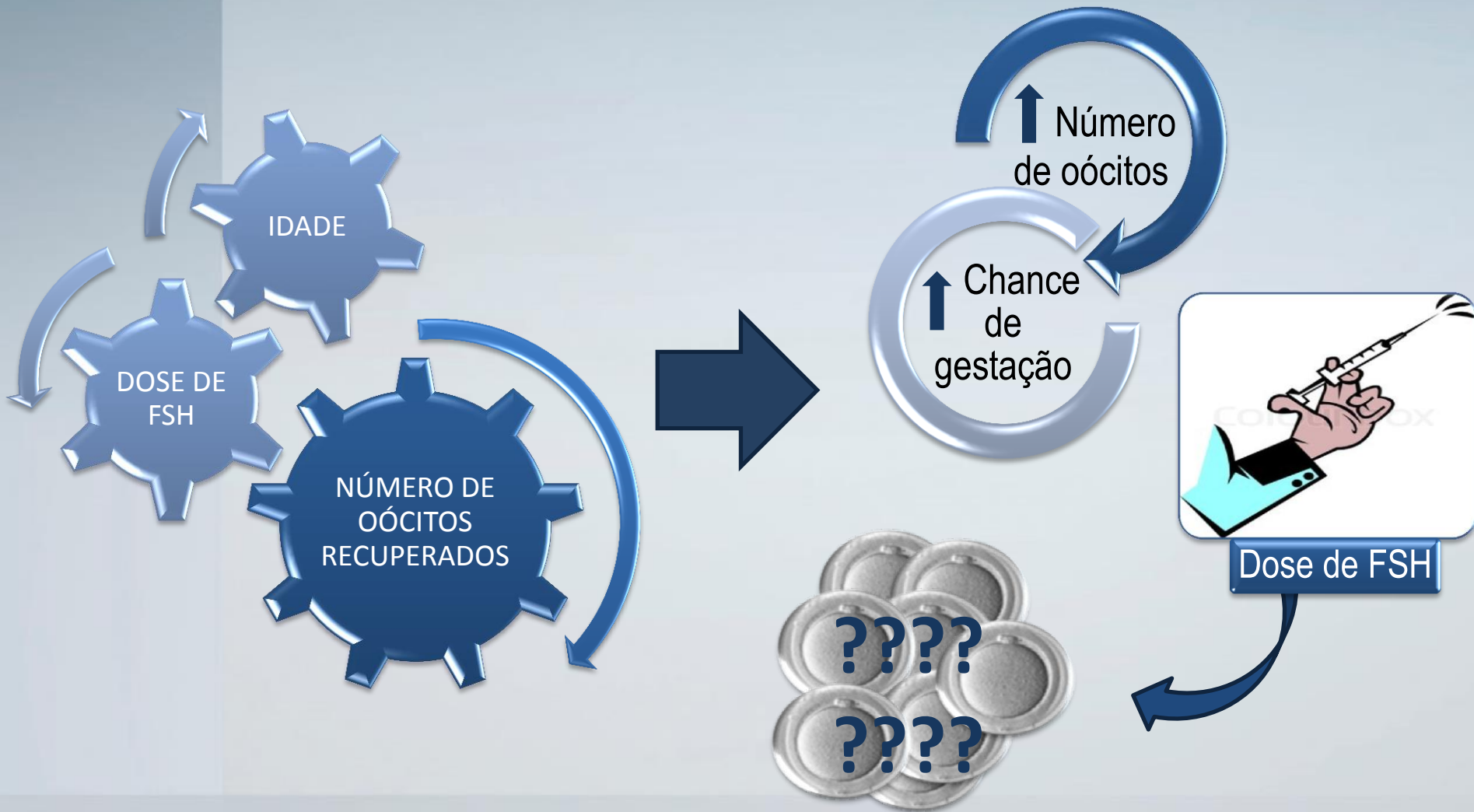
BANCO DE OÓCITOS VITRIFICAÇÃO



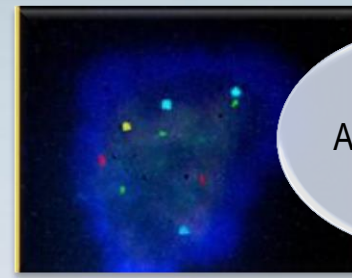
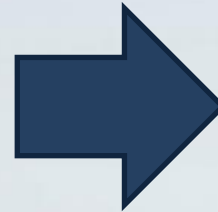
Fertility 2014

	RECEPTORAS	OÓCITOS	SOBREVIDA	GESTAÇÃO /OÓCITO
<i>TOTAL</i>	85	532	-	7,9% (42/532)
<i>FRESCO</i>	9	54	-	9,3% (5/54)
<i>AQUECIDO</i>	76	478	79,1% (378/478)	7,7% (37/478) 13 OOCITOS

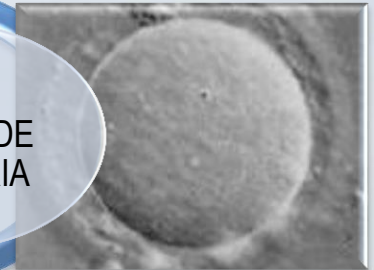
NÚMERO vs. QUALIDADE ??



NÚMERO vs. QUALIDADE ??



ANEUPLOIDIA



PIOR
QUALIDADE
OOCITÁRIA



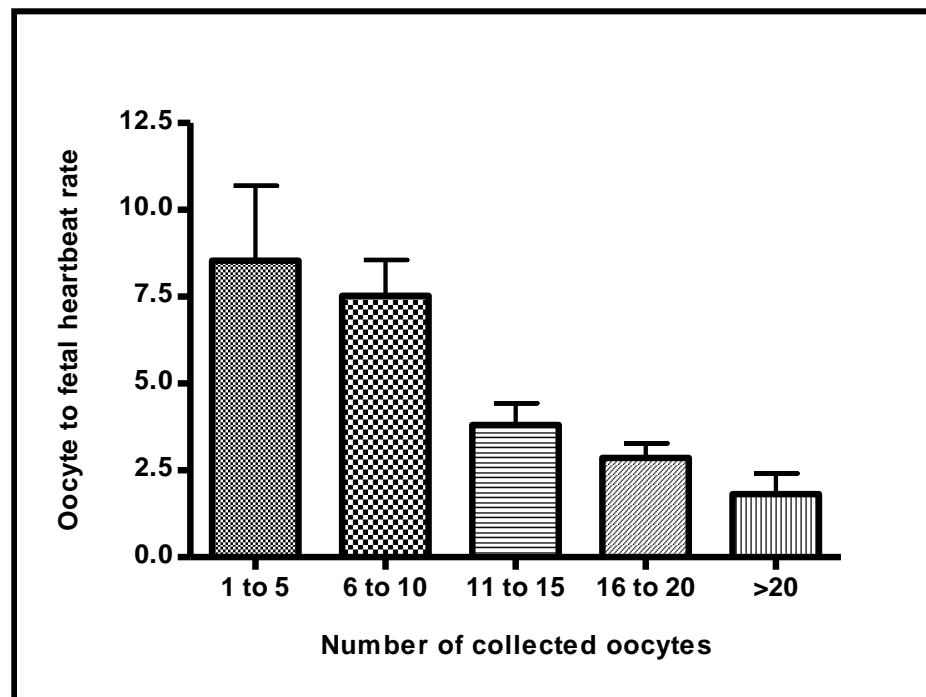
PIOR
QUALIDADE
EMBRIONÁRIA

Oocyte yield and dysmorphisms as indicators of biological efficiency in intracytoplasmic sperm injection cycles

RITA DE CÁSSIA SAVIO FIGUEIRA¹, DANIELA PAES ALMEIDA FERREIRA BRAGA^{1,2},
LUCIANA SEMIÃO-FRANCISCO¹, ASSUMPTO IACONELLI Jr.^{1,2}, &
EDSON BORGES Jr.^{1,2}

Human Fertility, March 2011; 14(1): 41-47

¹Fertility – Assisted Fertilization Center, São Paulo, SP, Brazil and ²Sapientiae Institute, Educational and Research Center in Assisted Reproduction, São Paulo, SP, Brazil



SEGURANÇA

TEMPO DE CONSERVAÇÃO

RBM Online - Vol 19, No 3, 2009 374-379 Reproductive BioMedicine Online; www.rbmonline.com/Article/4020 on web 4 August 2009

Article

Long-term cryostorage does not adversely affect the outcome of oocyte thawing cycles

L Parmegiani^{1,4}, C Garelo², F Granella², D Guidetti², S Bernardi¹, GE Cognigni¹, A Revelli³, M Filicori¹

¹Reproductive Medicine Unit, GynePro Medical Centers, Bologna; ²Livet Clinic; ³Reproductive Medicine and IVF Unit, Department of Obstetrical and Gynecological Sciences, S. Anna Hospital, University of Turin, Turin, Italy

⁴Correspondence: e-mail: l.parmegiani@gynepro.it

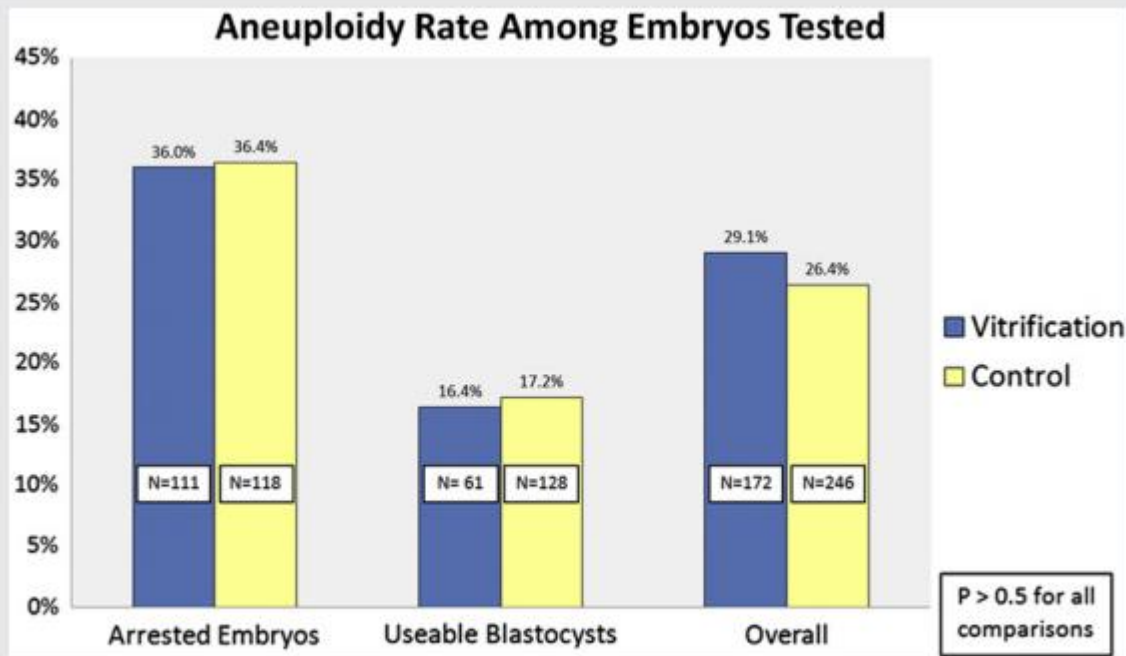
Table 2. Effects of oocyte cryostorage duration.

	<i>Duration of oocyte cryostorage</i>		
	<i>1–3 months (group A)</i>	<i>4–6 months (group B)</i>	<i>7–48 months (group C)</i>
No. of thawing cycles	77	73	78
Mean female age ± SE at oocyte retrieval (years)	35.0 ± 0.4	34.7 ± 0.4	34.6 ± 0.5
Survived oocytes (%)	376/457 (82.3)	318/403 (78.9)	327/416 (78.6)
Fertilized oocytes (%)	202/223 (90.6)	187/212 (88.2)	187/219 (85.4)
Cleaved embryos (%)	191/202 (94.6)	163/187 (87.2)	150/187 (80.2)
Grade 1 embryos (%)	45/191 (23.6)	36/163 (22.1)	29/150 (19.3)
Mean embryo development rating (SE)	90.2 (1.5)	85.5 (2.0)	85.4 (1.9)
Clinical pregnancy rate per transfer (%)	17/75 (22.7)	17/64 (26.6)	12/69 (17.4)
Implantations (%)	23/191 (12.0)	18/163 (11.0)	15/150 (10.0)
Abortions (%)	2/17 (11.8)	7/17 (41.2)	2/12 (16.7)
Live births (%)	17/75 (22.7)	8/64 (12.5)	10/69 (14.5)

There were no statistically significant differences between the groups.

Oocyte vitrification does not increase the risk of embryonic aneuploidy or diminish the implantation potential of blastocysts created after intracytoplasmic sperm injection: a novel, paired randomized controlled trial using DNA fingerprinting

Eric J. Forman, M.D.,^{a,b} Xinying Li, Ph.D.,^a Kathleen M. Ferry, B.S.,^a Katherine Scott, M.S.,^a Nathan R. Treff, Ph.D.,^{a,b} and Richard T. Scott Jr., M.D.^{a,b}



Equivalent aneuploidy rates among arrested embryos and useable blastocysts derived from previously vitrified and control oocytes.

Forman. Vitrification does not increase aneuploidy. *Fertil Steril* 2012.

VOL. 98 NO. 3 / SEPTEMBER 2012

Long-term cryopreservation of human oocytes does not increase embryonic aneuploidy

Fertility and Sterility® Vol. 103, No. 3, March 2015

Kara N. Goldman, M.D., Yael Kramer, M.S., Brooke Hodes-Wertz, M.D., M.P.H., Nicole Noyes, M.D., Caroline McCaffrey, Ph.D., H.C.L.D., and Jamie A. Grifo, M.D., Ph.D.

New York University Fertility Center, New York University School of Medicine, New York, New York

- ✓ 475 oocitos congelados por 3,5 anos
- ✓ Embriões derivados de oocitos criopreservados têm taxas semelhantes de euploidia, implantação e nascidos vivos, quando comparados a embriões derivados de oocitos frescos

Over 900 oocyte cryopreservation babies
born with no apparent increase in congenital
anomalies



RBM Online - Vol 18 No 6. 2009 769-776

N Noyes^{1,4}, E Porcu², A Borini³

Obstetric and perinatal outcome in 200 infants
conceived from vitrified oocytes



RBM Online - Vol 16. No 5. 2008 608-610

Ri-Cheng Chian^{1,4}, Jack YJ Huang¹, Seang Lin Tan¹, Elkin Lucena², Angela Saa², Alejandro Rojas², Luis Arturo Ruvalcaba Castellón³, Martha Isolina García Amador³, Jorge Eduardo Montoya Sarmiento³



Obstetric and perinatal outcome of babies born from vitrified oocytes

Fertility and Sterility® Vol. 102, No. 4, October 2014

Ana Cobo, Ph.D., Vicente Serra, M.D., Nicolás Garrido, Ph.D., Inés Olmo, M.D., Antonio Pellicer, M.D., and José Remohí, M.D.

Instituto Valenciano de Infertilidad, Universidad de Valencia, Valencia, Spain.

- ✓ Oocitos criopreservados: 1027 cças de 804 gestações
- ✓ Oocitos frescos: 1224 cças de 996 gestações
- ✓ **Vitrificação não traz efeitos adversos relevantes nos resultados obstétricos e perinatais**
 - ❑ *diabetes, hipertensão, pré-termo, anemia, colestase, idade gestacionaal ao nascimento, defeitos congênitos, mortalidade perinatal e problemas puerperais*

Comparative analysis of fetal and neonatal outcomes of pregnancies from fresh and cryopreserved/thawed oocytes in the same group of patients

Paolo Emanuele Levi Setti, M.D.,^a Elena Albani, Biol.Sc.,^a Emanuela Morengi, Ph.D.,^b Giovanna Morreale, Biol.Sc.,^a Luisa Delle Piane, M.D.,^a Giulia Scaravelli, Ph.D.,^c and Pasquale Patrizio, M.D., M.B.E., H.C.L.D.^d

TABLE 3

Outcomes of pregnancies in 63 couples having pregnancies from both fresh and frozen oocytes.

Outcome	Oocyte thawing	Fresh cycles	P value
Pregnancies	68	70	
Deliveries	40	37	
Abortions ≤12 wk	20 (29.41)	25 (35.71)	.430
Abortions >12 wk	0	3 (4.29)	.245
Ectopic pregnancies	6 (8.82)	3 (4.29)	.322
Therapeutic abortions	2 (2.94)	2 (2.86)	1.000
Babies delivered	43	43	
Singles	37	31	
Gestational age (wk)	38.1 ± 2.7	38.7 ± 1.6	.441
Birth weight (g)	3,210 ± 682	3,161 ± 635	.406
Females	21 (56.76)	15 (48.39)	.491
Twins	6	12	
Gestational age	35.8 ± 1.0	33.4 ± 4.7	.707
Birth weight (g)	2,442 ± 486	1,825 ± 772	.111
Females	4 (66.67)	9 (75.00)	1.000
Neonatal anomalies	0	3 (6.98)	.241

Note. Values are mean ± SD or number (percentage).

Levi Setti. Outcomes from fresh and thawed oocyte cycles. *Fertil Steril* 2013.

The effect of cryopreservation on the genome of gametes and embryos: principles of cryobiology and critical appraisal of the evidence

Julia Kopeika^{1,*}, Alan Thornhill², and Yacoub Khalaf¹

¹Assisted Conception Unit, Guy's and St Thomas NHS Trust, Great Maze Pond, London SE1 9RT, UK ²Department of Biosciences, University of Kent, Canterbury, Kent CT2 7NZ, UK

- ✓ 209 trabalhos Pubmed, Embase Cochrane review, CENTRAL
- ✓ Poucos estudos em oocitos trazem resultados conflitantes
- ✓ É prematuro concluir que a criopreservação de oocitos não aumente as anormalidades das crianças nascidas por esta técnica

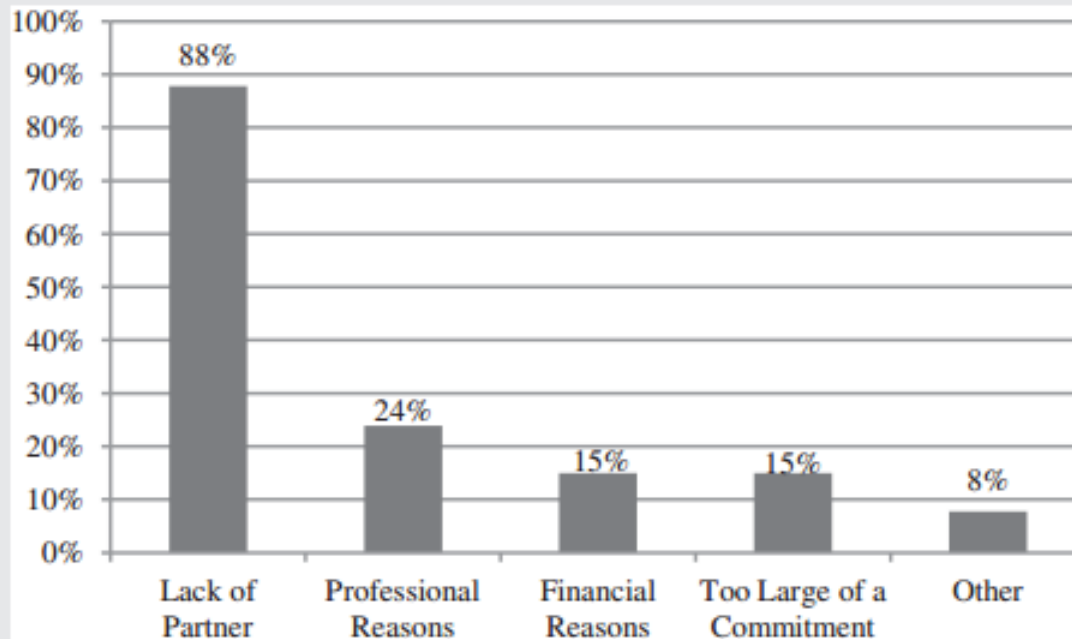
INDICAÇÕES e EXPECTATIVAS

What do reproductive-age women who undergo oocyte cryopreservation think about the process as a means to preserve fertility?

Brooke Hodes-Wertz, M.D., M.P.H.,^a Sarah Druckenmiller, B.A.,^b Meghan Smith, M.D.,^a and Nicole Noyes, M.D.^a

^a New York University, Fertility Center at New York University Langone Medical Center, and ^b New York University School of Medicine, New York, New York

FIGURE 2



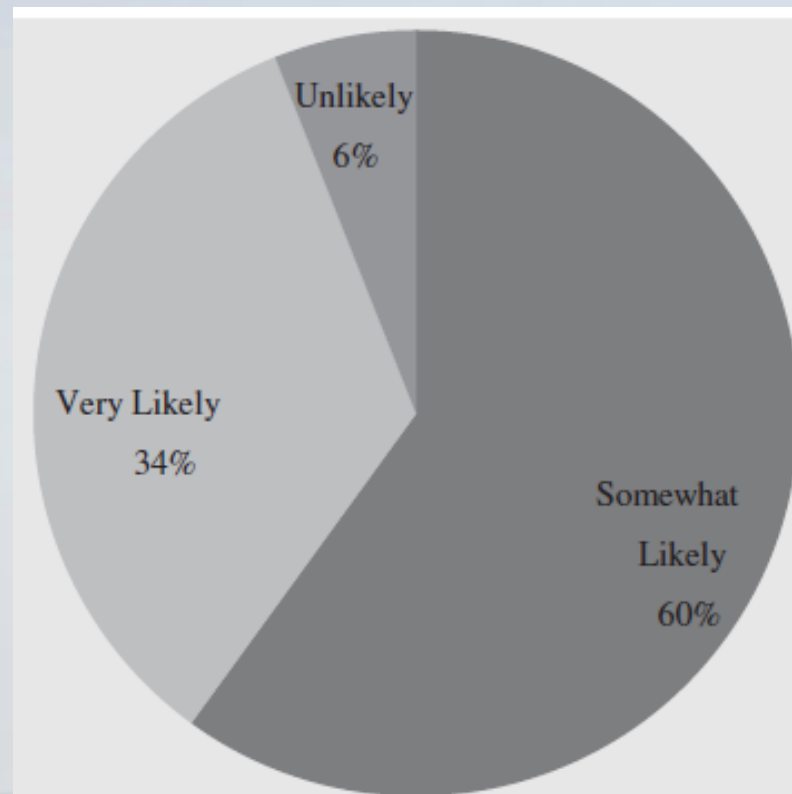
Reasons for not pursuing childbearing earlier.

Hodes-Wertz. What women think about oocyte freezing. *Fertil Steril* 2013.

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Likelihood of using oocytes.

Hodes-Wertz. What women think about oocyte freezing. *Fertil Steril* 2013.

Does oocyte banking for anticipated gamete exhaustion influence future relational and reproductive choices? A follow-up of bankers and non-bankers

D. Stoop*, E. Maes, N.P. Polyzos, G. Verheyen, H. Tournaye,
and J. Nekkebroeck

Center for Reproductive Medicine at the UZ Brussel, Vrije Universiteit Brussel, Laarbeeklaan 101, Brussels, Belgium

- ✓ 50% das mulheres pretendem usar os oocitos criopreservados
- ✓ 95% fariam novamente a criopreservação
- ✓ 96% recomendariam este tratamento a outras mulheres
- ✓ 76% prefeririam ter feito antes (quando mais jovens)



OBSTETRICAL & GYNECOLOGICAL SURVEY

Cryopreserved Oocytes: Update on Clinical Applications and Success Rates

Paramanantham, Janani; Talmor, Alon J.; Osianlis, Tiki February 2015 - Volume 70 - Issue 2

- ✓ 180 estudos OVID (MEDLINE) e Pubmed
- ✓ recomenda a criopreservação de oócitos como um método de preservação da fertilidade a ser usado na prática clínica

Putting 'family' back in family planning

David B. Seifer¹, Howard Minkoff², and Zaher Merhi^{3,*}

¹Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, Oregon Health Science University, Portland, OR, USA ²Department of Obstetrics and Gynecology, Maimonides Medical Center, Brooklyn, NY, USA

³Division of Reproductive Biology, Department of Obstetrics and Gynecology, NYU Langone Medical Center, New York, NY, USA

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- ✓ As mulheres não devem perder a oportunidade de fazerem escolhas e, para tanto, devem estar devidamente informadas.
- ✓ Estudos demonstraram que, se a mulher sabe que sua fertilidade está diminuída, elas podem alterar seus planos de vida e considerar a criopreservação de oocitos.
- ✓ A obrigação do médico não é somente promover a concepção em todas as circunstâncias; é também facilitar as escolhas sempre que possível.

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