

Préservation de la fertilité : expérience Eugin et nouveaux outils d'aide à l'obtention de meilleurs résultats

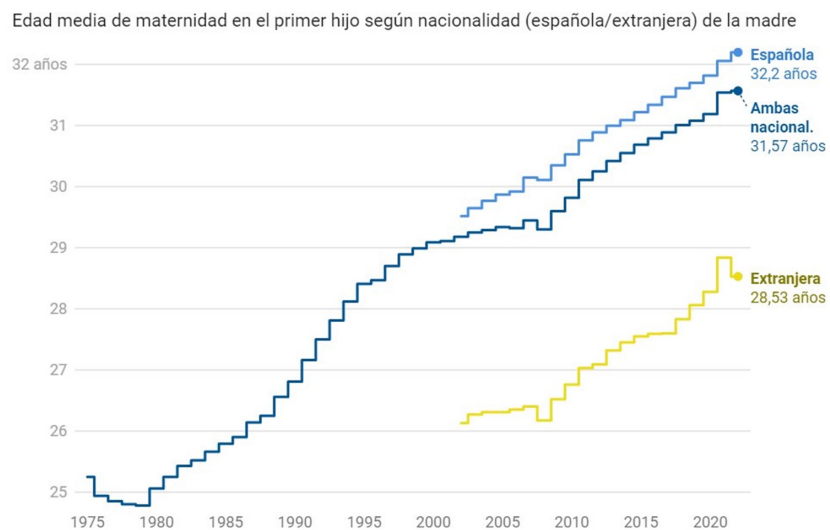


Elena Calvo
Eugin Barcelone
12/06/2025

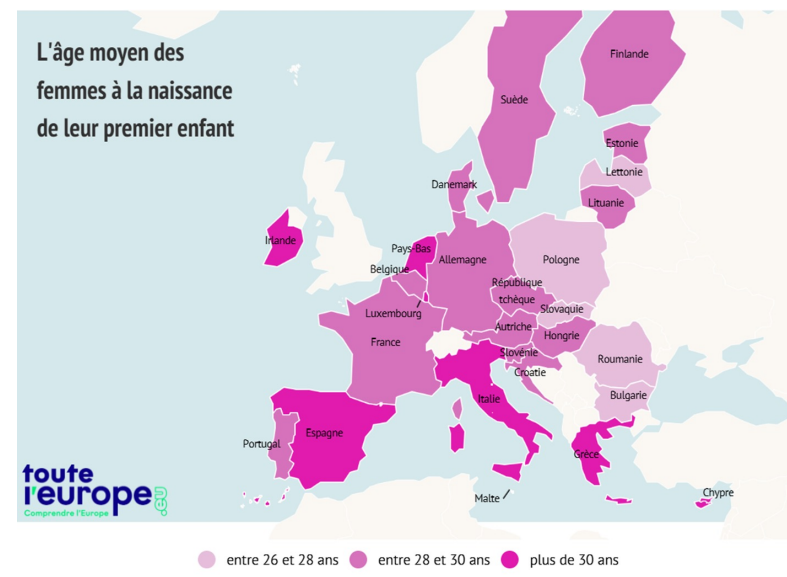
Pourquoi parle-t-on de plus en plus de la préservation
de la fertilité?
Épidémiologie



Pourquoi parle-t-on de plus en plus de la préservation de la fertilité? Épidémiologie



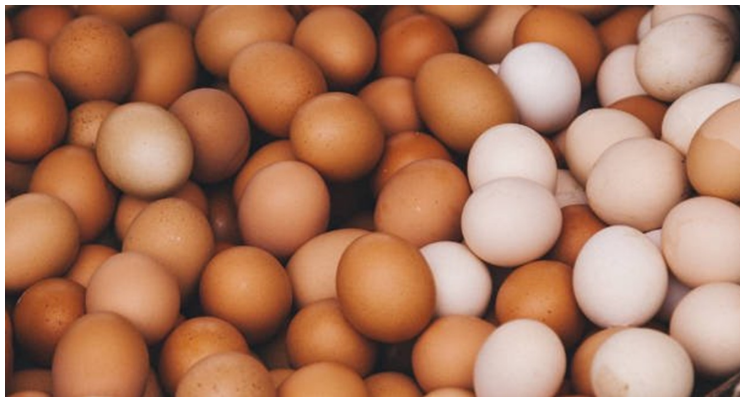
Fuente: INE • Creado con [Datawrapper](#)



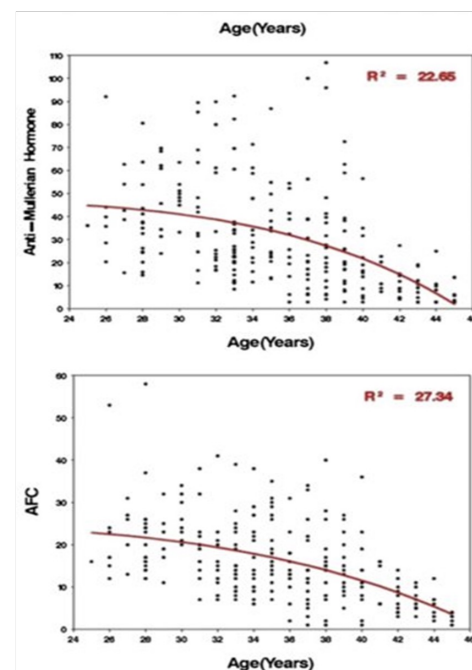
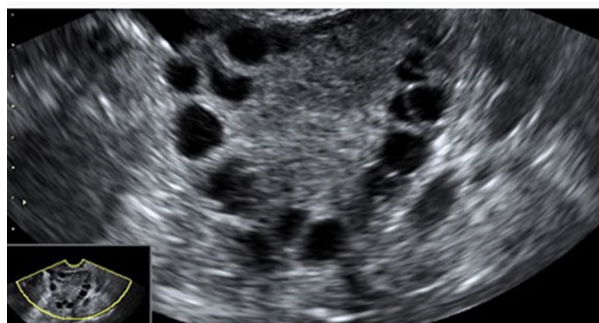
Age moyen des femmes à la naissance du premier enfant en 2019
Source : Eurostat 2021

Quel est l'impact de l'âge sur la fertilité?



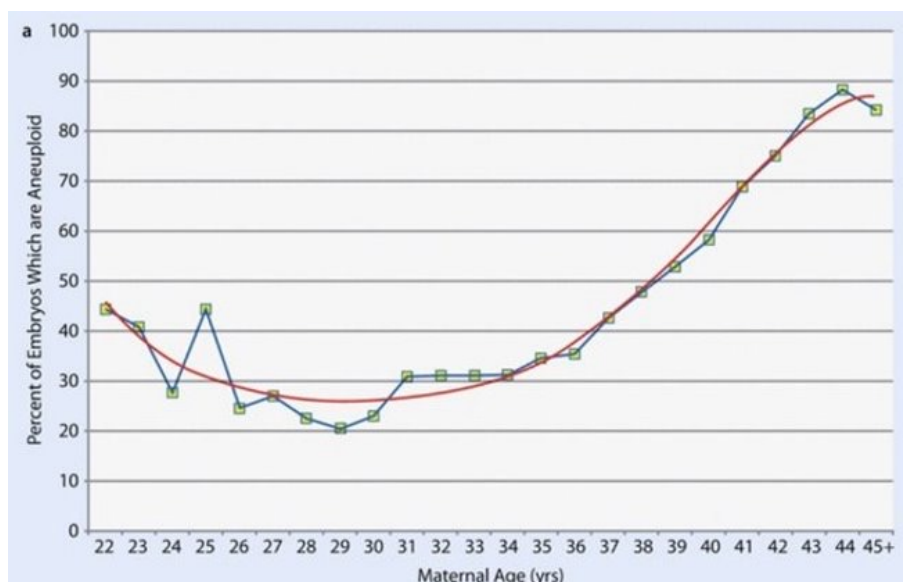


Quantité

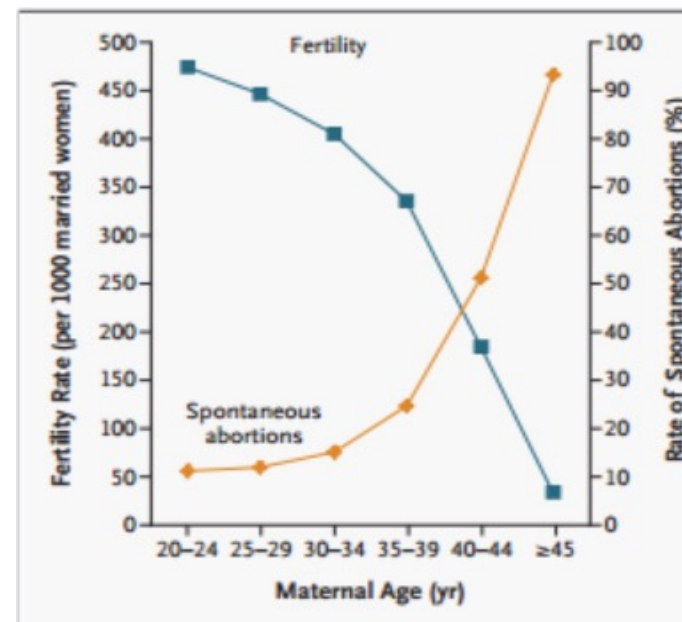


Rosen MP, Johnstone E, McCulloch CE, Schuh-Huerta SM, Sternfeld B, Reijo-Pera RA, Cedars MI. A characterization of the relationship of ovarian reserve markers with age. *Fertil Steril*. 2012 Jan;97(1):238-43

Qualité = euploidie



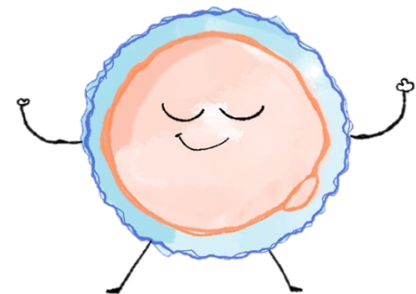
Franasiak JM, Forman EJ, Hong KH, Werner MD, Upham KM, Treff NR, Scott RT Jr. The nature of aneuploidy with increasing age of the female partner: a review of 15,169 consecutive trophectoderm biopsies evaluated with comprehensive chromosomal screening. Fertil Steril. 2014 Mar;101(3):656-663.e1.



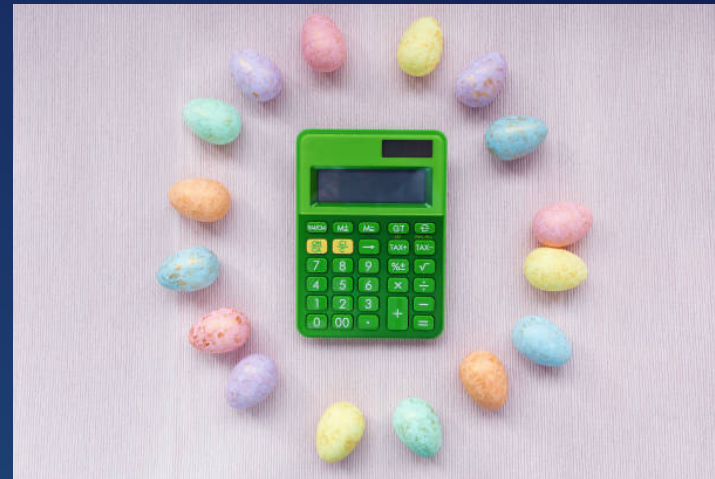
Heffner LJ. Advanced maternal age--how old is too old? N Engl J Med. 2004 Nov 4;351(19):1927-9.

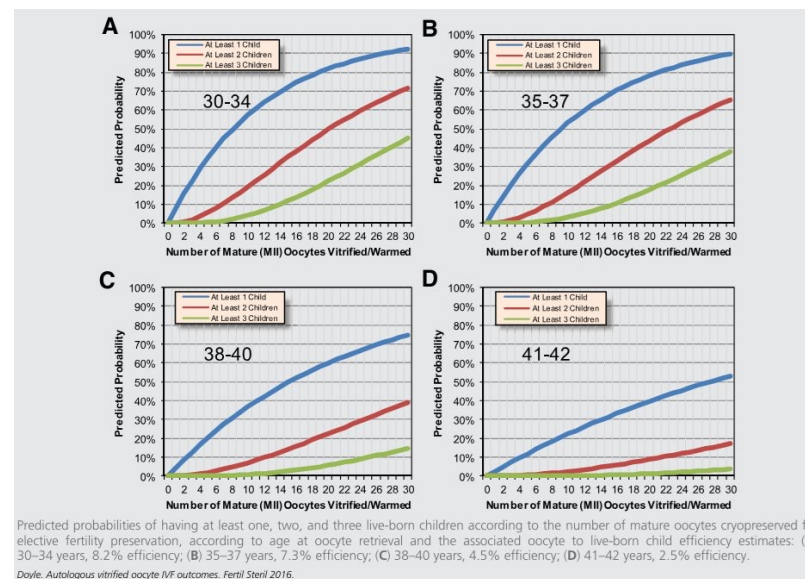
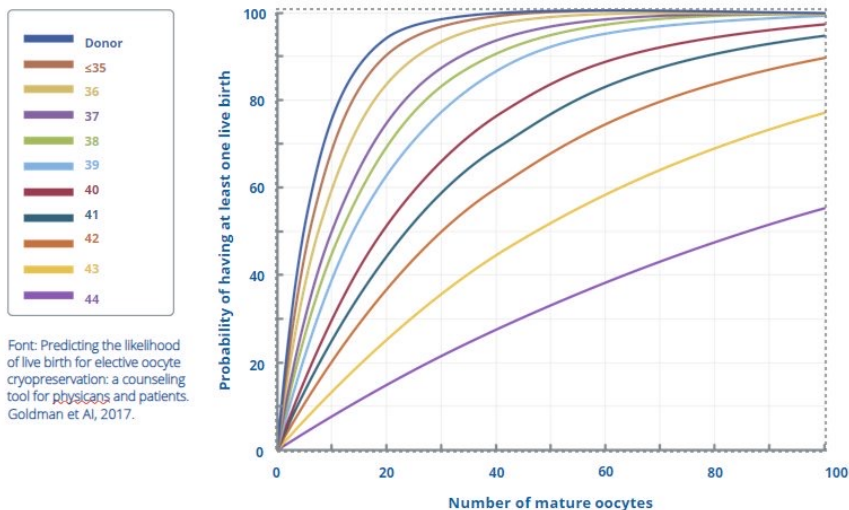
Face à cette situation, que pouvons-nous faire ?





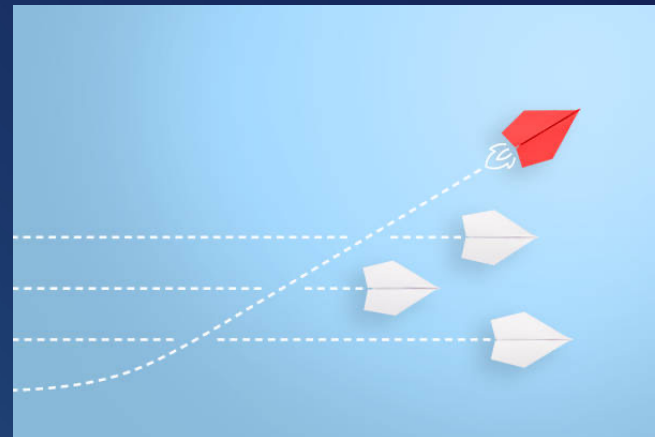
Combien d'ovules est-il conseillé de congeler?





30-34 ans: 8,2%
35-37 ans: 7,3%
38-40 ans: 4,5%
41-42 ans: 2,5%

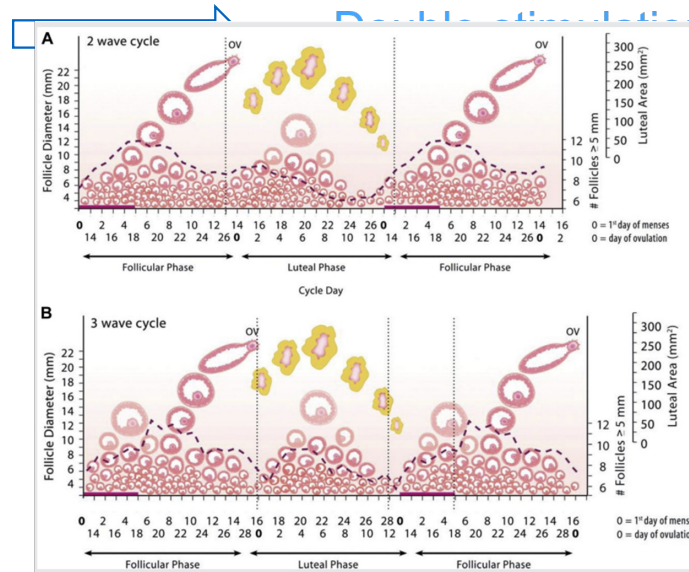
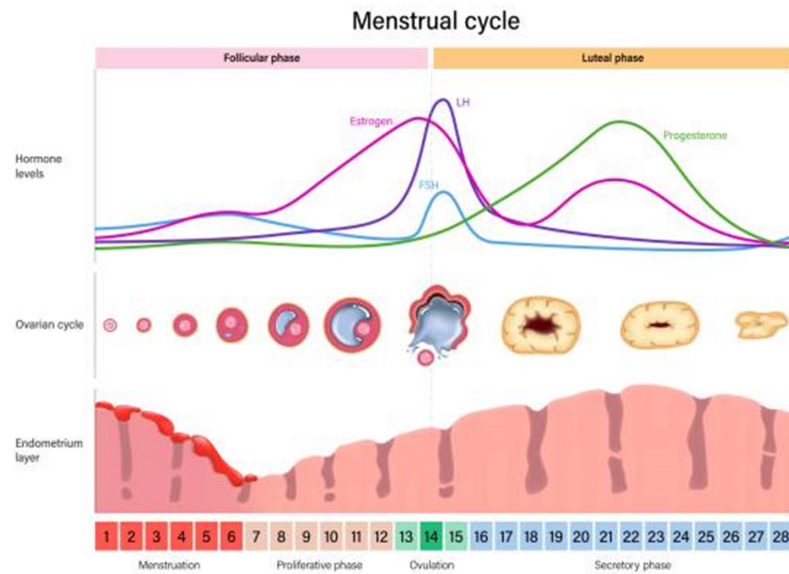
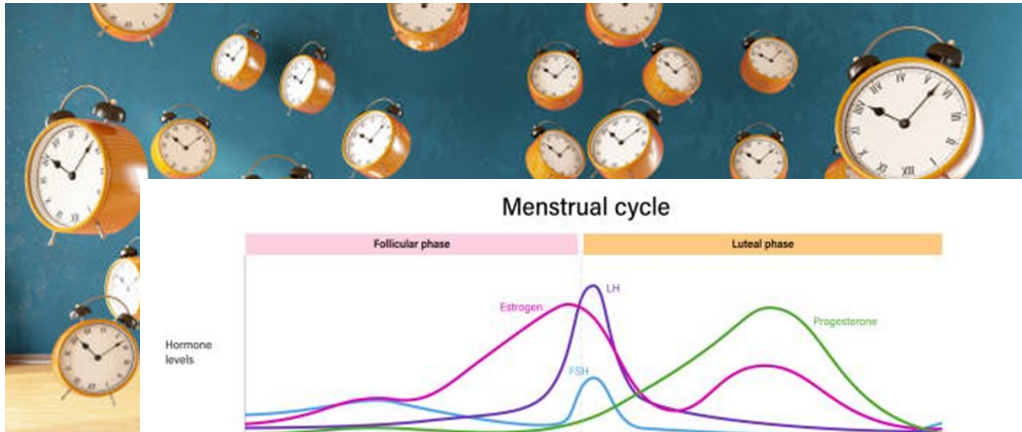
Comment pouvons-nous optimiser les résultats ?





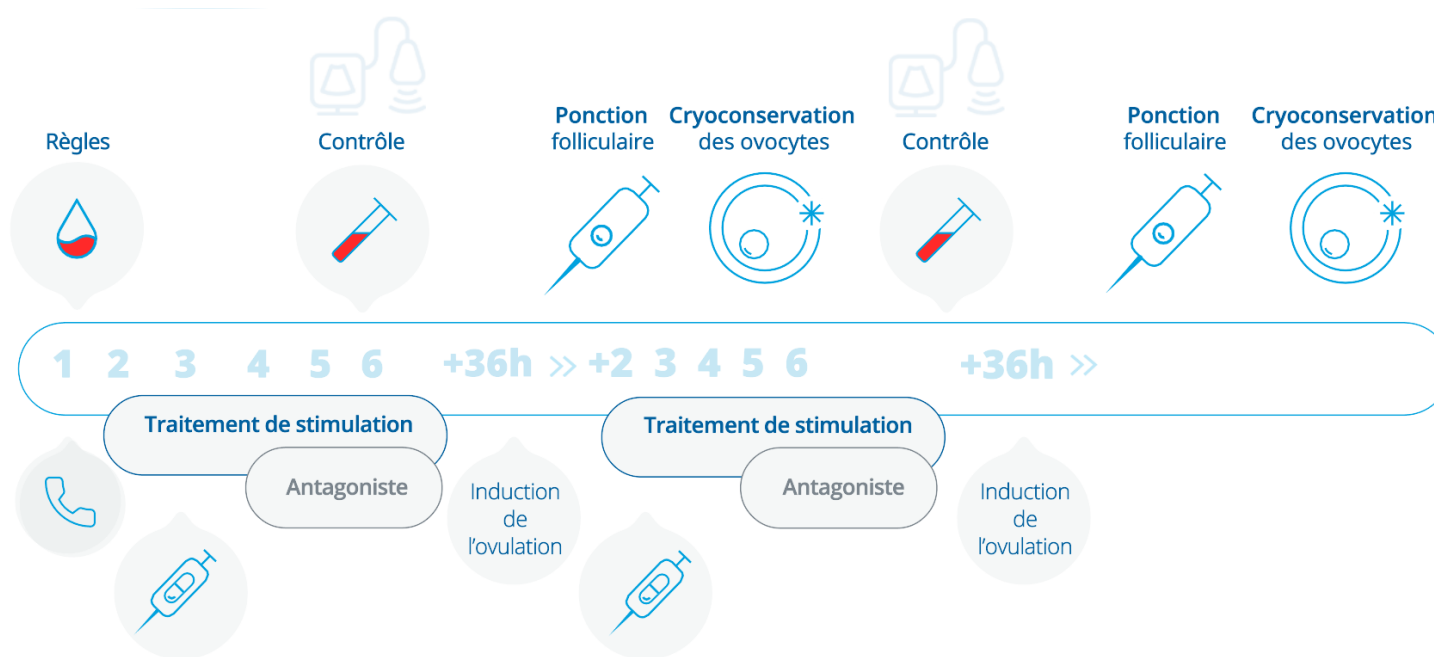
Outils dans le domaine clinique





Baerwald. Ovarian follicular waves: clinical applications. Fertil Steril 2020

Double stimulation



Double stimulation

Double versus single stimulation in young low prognosis patients followed by a fresh embryo transfer: a randomized controlled trial (DUOSTIM-fresh)

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A Racca , I Rodriguez , S Garcia , G Arroyo , N P Polyzos ✉

Human Reproduction, Volume 39, Issue 7, July 2024, Pages 1548–1557,
<https://doi.org/10.1093/humrep/deae104>

Published: 06 June 2024 **Article history** ▼

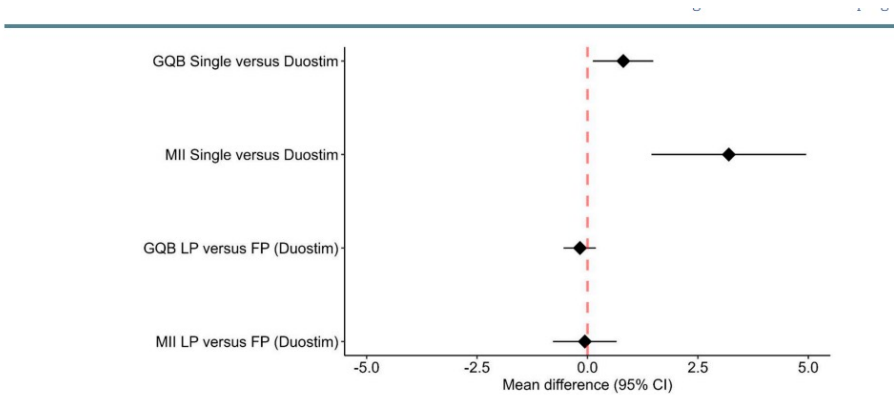


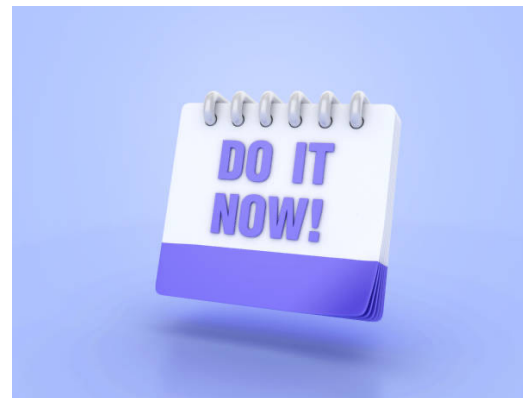
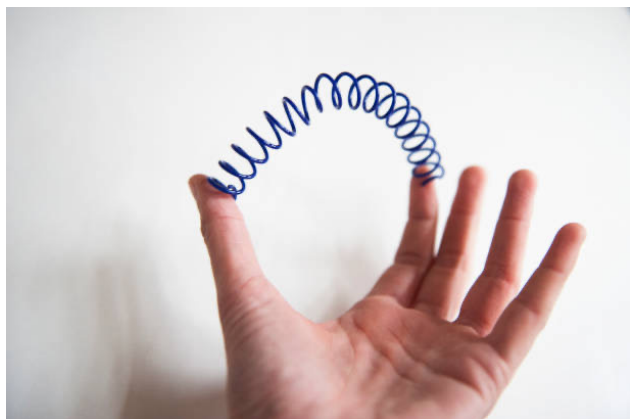
Figure 3. Cycle outcomes. GQB, good-quality blastocyst; MII, mature oocytes; LP, luteal phase; FP, follicular phase.

- Pas de différences statistiquement significatives dans la réponse ovarienne
- Nombre significativement plus élevé de blastocystes de bonne qualité avec duostim
- Pas de différences significatives dans le taux de grossesse clinique par transfert embryonnaire

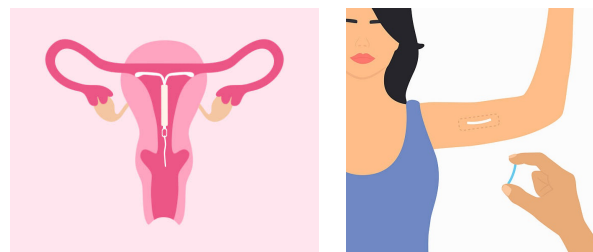
Table 4. Fresh cycle outcomes.

	Single stimulation	DUOSTIM fresh	Difference in proportions (95% CI)
Embryo transfer	28 (52)	33 (62)	0.10 (−0.10; 0.31)
Clinical pregnancy	17 (32)	16 (30)	−0.01 (−0.20; 0.17)
Ongoing pregnancy	12 (22)	13 (25)	0.02 (−0.16; 0.20)
Miscarriage	4 (24)	3 (19)	—

Values represent frequency (percentage). Values in the last column represent 95% CI for difference of two proportions.



Random start



Préservation dans le cadre d'un stérilet
ou d'un implant contraceptif



stimulation avec implant contraceptif à l'étonogestrel

	Follicules >14mm	MII	Ratio MII/follicules> 14mm	Taux Immatures	Ponction blanche
Sans frénation (n:13)	15,4	14,4	0,94	17%	0
Progestérone (n:18)	20,5	19,3	0,95	13%	0
Orgalutran (n:30)	15,4	13,0	0,92	11%	0

Outils au laboratoire



Vitrification



Principales caractéristiques :

- Taux de refroidissement et de réchauffement rapides ($-23\,000\text{ °C/min}$ et $+42\,000\text{ °C/min}$)
- Utilisation de cryoprotecteurs à des concentrations élevées
- Le taux de survie des ovocytes après décongélation $\geq 90\%$

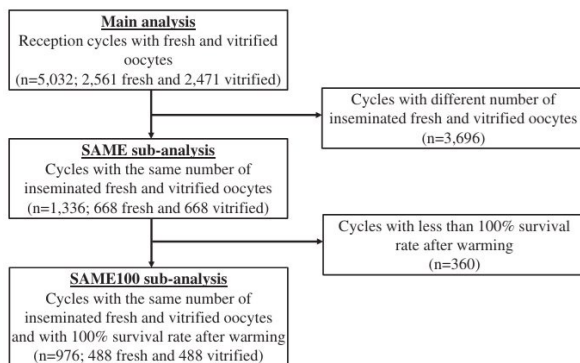
Efficiency and efficacy of vitrification in 35 654 sibling oocytes from donation cycles

D. Cornet-Bartolomé^{1,2,†}, A. Rodríguez^{1,†}, D. García¹, M. Barragán¹, and R. Vassena^{1,*}

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Submitted on April 2, 2019; resubmitted on May 6, 2020; editorial decision on June 17, 2020



Étude rétrospective de cohortes appariées
35654 ovocytes
5032 transferts embryonnaires
2551 ovocytes frais
2471 ovocytes vitrifiés

Efficiency and efficacy of vitrification in 35 654 sibling oocytes from donation cycles

D. Cornet-Bartolomé^{1,2,†} A. Rodríguez^{1,‡} D. García¹, M. Barragán¹, and R. Vassena^{1,*}

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Table V Multivariable analysis of the SAME100 sub-analysis: cycles with the same number of inseminated fresh and vitrified oocytes and with a 100% survival rate after warming.

		OR	95% CI		P-value
			Lower	Upper	
Biochemical pregnancy	Vitrified versus fresh oocytes	1.24	0.94	1.64	0.13
	Recipients' age	1.00	0.97	1.03	0.88
	Recipients' BMI	0.98	0.95	1.01	0.19
	Partner frozen versus donors'	0.70	0.48	1.02	0.07
	Partner fresh versus donors'	0.62	0.36	1.07	0.08
	1 embryo versus 2	0.31	0.18	0.51	<0.001
	3 embryos versus 2	1.97	0.32	12.0	0.46
	Embryo quality	1.22	1.11	1.37	0.001
Clinical pregnancy	Vitrified versus fresh oocytes	1.36	1.02	1.80	0.035
	Recipients' age	1.00	0.97	1.03	0.94
	Recipients' BMI	0.98	0.95	1.01	0.18
	Partner frozen versus donors'	0.64	0.44	0.93	0.020
	Partner fresh versus donors'	0.49	0.28	0.86	0.012
	1 embryo versus 2	0.31	0.18	0.53	<0.001
	3 embryos versus 2	1.11	0.18	6.85	0.91
	Embryo quality	1.23	1.13	1.44	<0.001
Ongoing pregnancy	Vitrified versus fresh oocytes	1.32	0.98	1.77	0.06
	Recipients' age	1.00	0.97	1.03	0.97
	Recipients' BMI	0.98	0.95	1.01	0.16
	Partner frozen versus donors'	0.62	0.43	0.92	0.016
	Partner fresh versus donors'	0.53	0.30	0.93	0.028
	1 embryo versus 2	0.37	0.21	0.64	<0.001
	3 embryos versus 2	1.43	0.23	8.81	0.70
	Embryo quality	1.27	1.11	1.44	<0.001
Live birth	Vitrified versus fresh oocytes	1.27	0.95	1.71	0.11
	Recipients' age	1.00	0.97	1.04	0.91
	Recipients' BMI	0.97	0.94	1.00	0.030
	Partner frozen versus donors'	0.65	0.44	0.96	0.031
	Partner fresh versus donors'	0.51	0.29	0.92	0.024
	1 embryo versus 2	0.33	0.18	0.59	<0.001
	3 embryos versus 2	1.52	0.25	9.39	0.65
	Embryo quality	1.24	1.09	1.41	0.001

A P-value <0.05 was set as statistically significant.

How does vitrification affect oocyte viability in oocyte donation cycles? A prospective study to compare outcomes achieved with fresh versus vitrified sibling oocytes

M. Solé^{1,2,*}, J. Santaló², M. Boada¹, E. Clua¹, I. Rodríguez³, F. Martínez¹, B. Coroleu¹, P.N. Barri¹, and A. Veiga^{1,4}

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Efficacy of oocyte vitrification combined with blastocyst stage transfer in an egg donation program

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Submitted on May 18, 2010; resubmitted on November 29, 2010; accepted on January 7, 2011

Use of cryo-banked oocytes in an ovum donation programme: a prospective, randomized, controlled, clinical trial

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Submitted on February 11, 2010; resubmitted on April 6, 2010; accepted on May 11, 2010

Clinical evaluation of the efficiency of an oocyte donation program using egg cryo-banking

Zsolt P. Nagy, M.D., Ph.D., Ching-Chien Chang, Ph.D., Daniel B. Shapiro, M.D., Diana Patricia Bernal, D.V.M., Carlene W. Elsner, M.D., Dorothy Mitchell-Leef, M.D., Andrew A. Toledo, M.D., and Hilton I. Kort, M.D.

Reproductive Biology Associates, Atlanta, Georgia

Long-term storage of vitrified oocytes does not affect pregnancy and live birth rates: analysis of 5362 oocyte donation cycles



BIOGRAPHY
Marc Torra-Massana completed his PhD at University of Barcelona and Clínica Eugén, Spain, on the molecular alterations causing male-related fertilization failure. He is currently a clinical embryologist and researcher at Clínica Eugén, focusing on the factors affecting clinical and reproductive outcomes after intracytoplasmic sperm injection.

Marc Torra-Massana^{a,*}, Irene Miguel-Escalada^{a,b}, Rita Vassena^a, Amelia Rodríguez^a

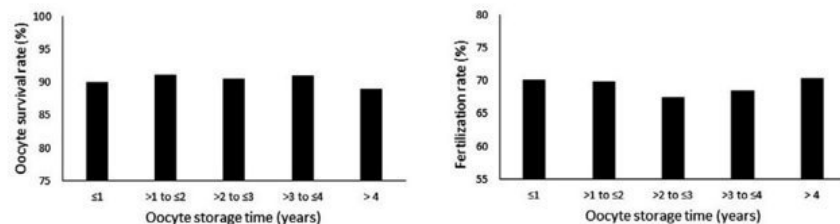


FIGURE 1 Adjusted values as predicted by linear regression of oocyte survival rate (left) and fertilization rate (right) for each category of oocyte storage time included in the study. Each time category was statistically compared with the reference group (≤ 1 year) using linear regression models. Oocyte survival (>1 to ≤ 2 years, $P = 0.1623$, >2 to ≤ 3 years, $P = 0.9773$, 91.06% for >3 to ≤ 4 years, $P = 0.9356$, and 88.91% for >4 years, $P = 0.9375$). The fertilization rate after intracytoplasmic sperm injection (>1 to ≤ 2 years, $P = 0.9924$, >2 to ≤ 3 years, $P = 0.1312$, >3 to ≤ 4 years, $P = 0.8978$, >4 years, $P = 0.9999$).

Étude rétrospective de cohortes 5362 cycles de don d'ovocytes 41738 ovocytes

TABLE 4 ANALYSIS OF THE EFFECT OF OOCYTE STORAGE TIME ON REPRODUCTIVE OUTCOMES AFTER FRESH EMBRYO TRANSFER OF PREVIOUSLY VITRIFIED OOCYTES BY ADJUSTED LOGISTIC REGRESSION

Reproductive outcome ^a	Adjustment categories	Coefficient estimate	Adjusted OR	OR 95% CI		P-value
				Lower	Upper	
Biochemical pregnancy ^b	Oocyte storage ^c (>1 to <2 years)	0.078	1.053	0.901	1.225	0.4309
	Oocyte storage ^c (>2 to <3 years)	-0.769	0.872	0.676	1.104	0.3225
	Oocyte storage ^c (>3 to <4 years)	0.292	1.220	0.790	1.886	0.2295
	Oocyte storage ^c (>4 years)	-0.941	0.487	0.304	0.792	0.0095
	Sperm origin and status 1 (partner frozen versus partner fresh)	-0.0479	1.019	0.851	1.220	0.3665
	Sperm origin and status 2 (donor frozen versus partner fresh)	0.0028	1.078	0.763	1.441	0.624
	Patent BMI	-0.0141	0.986	0.974	0.998	0.0277
	Sperm concentration, million/ml	-0.00072	0.999	0.998	1.000	0.1852
	Sperm motility, % a + b	0.00382	1.004	0.999	1.008	0.091
	Immatured oocytes	-0.001	0.983	0.937	1.031	0.4855
	Correctly fertilized oocytes (2PN)	0.013	1.021	1.014	1.048	<0.0001
	Number of transferred embryos (two to three versus one)	0.3331	1.947	1.443	2.307	<0.0001
Clinical pregnancy ^b	Embryo transfer day (5 versus 2-3)	0.3035	1.833	1.471	2.277	<0.0001
	Oocyte storage ^c (>1 to <2 years)	0.1658	1.043	0.885	1.222	0.1382
	Oocyte storage ^c (>2 to <3 years)	-0.0143	0.891	0.683	1.161	0.9078
	Oocyte storage ^c (>3 to <4 years)	0.0267	0.928	0.993	1.452	0.8870
	Oocyte storage ^c (>4 years)	-0.2548	0.700	0.423	1.158	0.2214
	Sperm origin and status 1 (partner frozen versus partner fresh)	-0.0415	1.028	0.839	1.248	0.4048
	Sperm origin and status 2 (donor frozen versus partner fresh)	0.0176	1.214	0.988	1.493	0.0368
	Patent BMI	-0.0195	0.981	0.968	0.994	0.0037
	Sperm concentration, million/ml	-0.00048	1.000	0.998	1.001	0.4630
	Sperm motility, % a + b	0.00382	1.004	0.999	1.008	0.0992
	Immatured oocytes	-0.0022	0.978	0.931	1.028	0.3822
	Correctly fertilized oocytes (2PN)	0.0066	1.013	1.045	1.162	<0.0001
Live birth	Number of transferred embryos (two to three versus one)	0.2758	1.736	1.454	2.073	<0.0001
	Embryo transfer day (5 versus 2-3)	0.2782	1.744	1.453	2.169	<0.0001
	Oocyte storage ^c (>1 to <2 years)	0.1432	1.048	0.888	1.236	0.1507
	Oocyte storage ^c (>2 to <3 years)	-0.0026	0.899	0.684	1.182	0.9215
	Oocyte storage ^c (>3 to <4 years)	0.0190	0.928	0.586	1.471	0.928
	Oocyte storage ^c (>4 years)	-0.2402	0.776	0.425	1.208	0.2670
	Sperm origin and status 1 (partner frozen versus partner fresh)	-0.0109	1.006	0.766	1.331	0.624
	Sperm origin and status 2 (donor frozen versus partner fresh)	0.0153	1.246	1.007	1.541	0.0459
	Patent BMI	-0.0244	0.976	0.963	0.989	0.0004
	Sperm concentration, million/ml	-0.00022	1.000	0.999	1.001	0.6979
	Sperm motility, % a + b	0.00022	1.002	0.998	1.007	0.3529
	Immatured oocytes	-0.0441	0.957	0.909	1.007	0.0020
Live birth	Correctly fertilized oocytes (2PN)	0.0052	1.011	1.062	1.162	<0.0001
	Number of transferred embryos (two to three versus one)	0.2772	1.741	1.450	2.090	<0.0001
	Embryo transfer day (5 versus 2-3)	0.2784	1.816	1.454	2.248	<0.0001

^aEach reproductive outcome was adjusted by sperm origin (partner or donor) and status (fresh or frozen), patient body mass index, sperm concentration and motility, number of immatured and correctly fertilized oocytes, number of transferred embryos, and embryo transfer day.

^bEach oocyte storage time category was statistically compared with the reference group (storage time: ≤ 1 year).

^cAssessed according to World Health Organization, 2010.

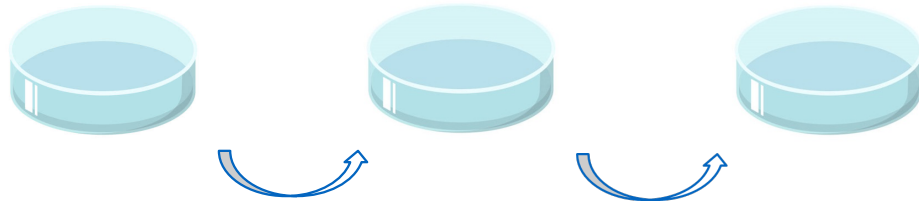
^dEach HCG concentration measuring 3 U/ml or above in serum 15 days after embryo transfer.

^e% a + b: cells with embryo and blastocyst 7 weeks after the last menstrual period.

BMI, body mass index; 2PN, zygotes with two pronuclei.

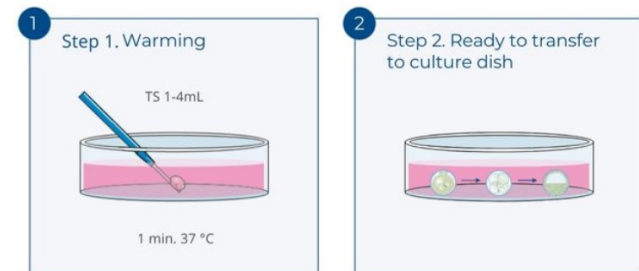
Décongélation

Protocole conventionnel



❄️ Différents moyens

❄️ 12-15 min



❄️ Un seule moyen

❄️ 1-3 min

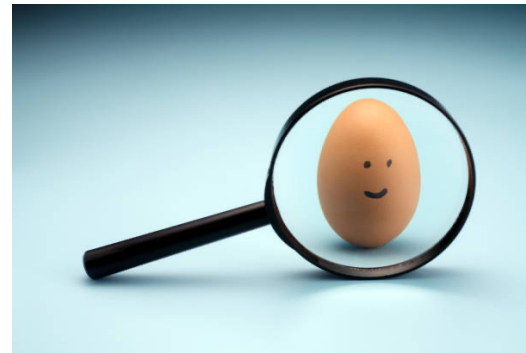
We observed no differences in clinical outcomes between the groups

	<u>Ultrafast</u>	Standard	<u>p-value</u>
<u>Oocyte survival rate</u>	93.6% (233/249)	93.3% (531/569)	1.0
<u>Fertilization rate</u>	72.1% (168/233)	74.4% (395/531)	0.57
<u>Blastocyst rate</u>	64.3% (108/168)	53.7% (212/395)	0.03
<u>Good-quality blast</u>	81.6% (31/38)	75.9% (41/54)	0.7
<u>Implantation rate (SET)</u>	64.9% (24/37)	58.5% (31/53)	0.7
<u>Clinical pregnancy rate</u>	48.6% (18/37)	56.6% (30/53)	0.6

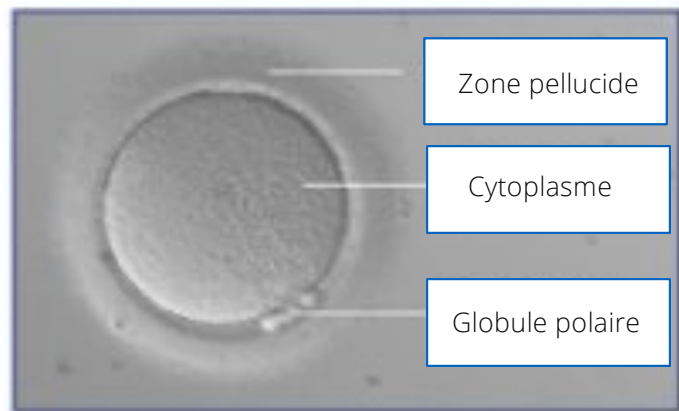
Poster accepté pour l'ESHRE 2025.
Clinique Eugin Barcelona

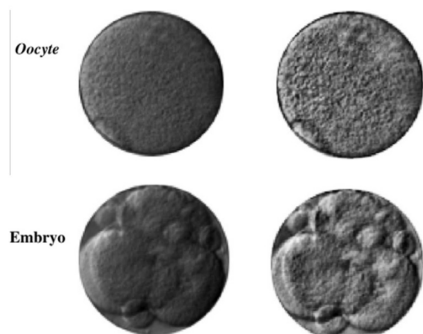
Comment l'intelligence artificielle peut-elle nous aider ?











Reproductive Biomedicine Online (2013) 26, 42–49



www.sciencedirect.com
www.rbmonline.com



ARTICLE

Artificial intelligence techniques for embryo and oocyte classification

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On the role of artificial intelligence in analysing oocytes during *in vitro* fertilisation procedures

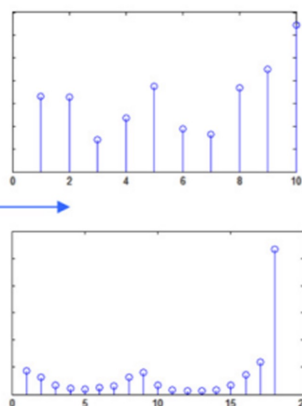
Antonio Iannone ^a, Alessandro Carfi ^{a,*}, Fulvio Mastrogiovanni ^a, Renato Zaccaria ^a,
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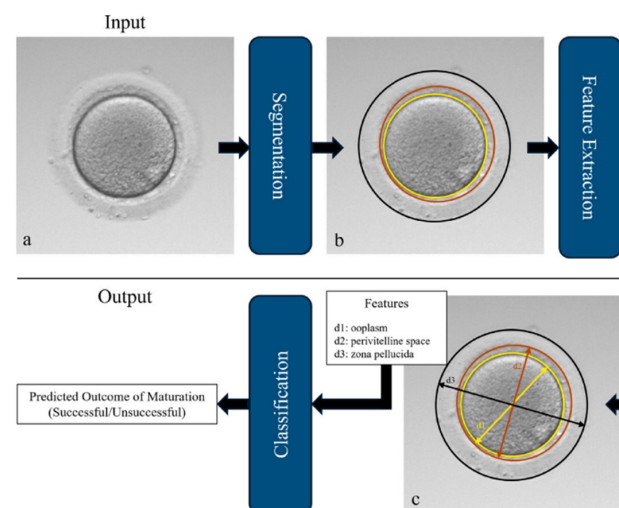
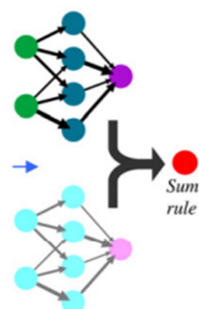
SEGMENTATION
Only the foreground image is
used for extracting features



FEATURE EXTRACTION
Two histograms are concatenated for obtaining the
feature vector that describes the whole image



CLASSIFICATION
Ensemble of different neural
network classifiers



Targosz et al. *BioMed Eng OnLine* (2021) 20:40
<https://doi.org/10.1186/s12938-021-00864-w>

BioMedical Engineering
OnLine

RESEARCH

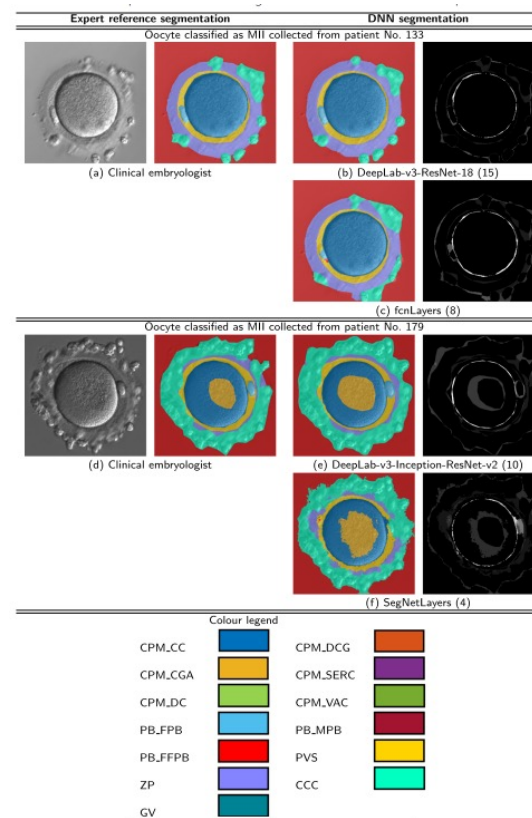
Open Access

Semantic segmentation of human oocyte images using deep neural networks

Anna Targosz^{1,2*}, Piotr Przysłanka³, Ryszard Wiaderekiewicz¹ and Grzegorz Mrugacz²

Prédeiction de la qualité
ovocytaire selon :

- le cytoplasme de l'ovocyte
- les caractéristiques du globe polaire, de la zone pellucide et des cellules du cumulus.



Lien avec la capacité de blastulation (score):

- cytoplasme : couleur, translucidité et granularité.
- épaisseur de la zone pellucide et taille de l'espace périvitellin.

RBMO



ARTICLE

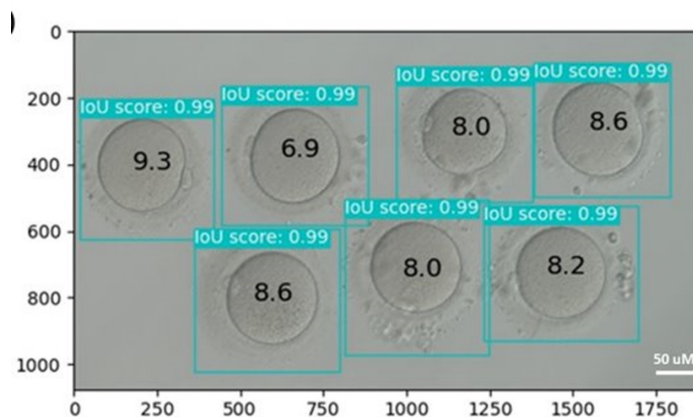
Use of federated learning to develop an artificial intelligence model predicting usable blastocyst formation from pre-ICSI oocyte images



BIOGRAPHY

Life Whisperer Co-Founder and Chief Scientist Dr Jonathan Hall began Life Whisperer in 2016, together with Dr Michelle Perugini and Dr Don Perugini. Dr Hall was inspired by his original and unique discoveries in his PhD research in embryo nanotechnology, and extensive computational knowledge from his PhD in theoretical physics.

J.M.M. Hall^{1,2,3,4,5}, T.V. Nguyen^{1,4}, A.W. Dinsmore⁴, D. Perugini¹, M. Perugini^{1,5}, N. Fukunaga⁶, Y. Asada⁴, M. Schiewe⁴, A.Y.X. Lim⁴, C. Lee⁴, N. Patel⁴, H. Bhadarka⁴, J. Chiang¹⁰, D.P. Bose¹¹, S. Mankee-Sookram¹², C. Minto-Bain¹², E. Bilen¹³, S.M. Diakiw¹⁴



Quelle est la traduction dans la pratique clinique ?



VioletTM

- Modèle entraîné et testé avec un vaste ensemble de données reflétant des scénarios cliniques du monde réel.
- Mesure objectivement la qualité des ovocytes afin d'évaluer la probabilité de fécondation et le développement de blastocystes.

Grande taille de l'échantillon

+150,000 Images d'ovocytes et leurs résultats

Diversité

15 pays sur 4 continents
Images de microscope et Timelapse

Côntrole de qualité

Capture d'images de haute qualité



OOCYTE ASSESSMENT FOR CRYOPRESERVATION

PATIENT

ID: 125455-55
Age(Date of Birth: 35)*****
Date of Retrieval: March 1, 2021

CLINIC

Clinic: Your Clinic
Phone: 555-555-5555
Email: email@email.com

REPORT

Date of report: March 1, 2021
Number of oocytes: 7

Report

OOCYTES

You have **7** mature oocytes frozen

BLASTOCYSTS

Based on Violet™ assessment: Your chances of developing blastocysts post thawing are:

Number of Blastocysts
Probability

Number of Blastocysts	Probability
1-2	31.4%
3 - 5	54.00%
6-7	13.6%

At Least 1 Blastocyst: Probability of 99%

LIVE BIRTH

Personalized: Based on Violet™ assessment and Statistical Modeling your chance of achieving a live birth from your 7 oocytes is:

At least one live birth - **42.3%**
2 or more - **15.1%**

General: Based solely on AGE and NUMBER OF OOCYTES FROZEN your chance of achieving a live birth is estimated to be between 28% and 34%.^{1,2}

Disclaimer and additional information

Outcome predictions are based on proprietary technology combining VIOLET image analysis (Oocytes → Blastocysts) and statistical modeling (Blastocysts → Live Birth). Calculations assume a normal semen analysis and no specific uterine receptivity issues (2-6). VIOLET is an AI based predictive model consisting of an ensemble of custom deep neural networks trained to analyze 2D images of oocytes to predict blastocyst development (7).

Future Fertility does its best to provide the most accurate results based on state-of-the-art technologies and software development. Violet is under investigation for its predictive potential as part of this study. Outcome predictions may additionally be affected by suboptimal image quality.

Results are designed for information purposes only and are used to collect data on the model's performance. Violet is not intended to substitute professional medical advice or replace the patient-doctor consultation about your particular condition. Please speak to your health care provider about your circumstances prior to making any decisions.

For investigational use only. IRB Tracking Number: 2021-2732-6559-2.

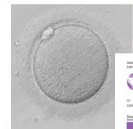
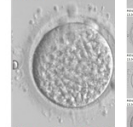
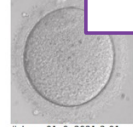


ID: 125455-55

Age(Date of Birth: 35)January 15, 1986

Date of Retrieval: March 1, 2021

Straw: #straw_01

OOCYTE	PROBABILITY OF REACHING A BLASTOCYST	COMMENTS
	88% 100	
#straw-01_0_2021-3-0 13.34.18		
#straw-01_0_2021-3-0 13.34.18		
#straw-01_0_2021-3-0 13.34.18		
#straw-01_0_2021-3-0 13.34.18		
#straw-01_0_2021-3-0 13.34.18		

Probabilité de
Nouveau-né



Qu'est-ce que cela nous permet ?

Pour le clinicien :

- Évaluer la qualité ovocytaire
- Éventuel second cycle pour accumuler plus d'ovocytes?

Pour la patiente :

- Information plus personnalisée
- Cela l'aide à prendre la décision de faire ou non d'autres cycles

Take home messages

- Ces dernières années, on a observé un changement social concernant l'âge auquel les femmes envisagent la maternité.
- L'âge influence la réserve ovarienne et la qualité ovocytaire.
- La préservation de la fertilité est une stratégie utile si l'on souhaite retarder la maternité, bien qu'elle n'offre aucune garantie absolue.
- Il est important de réaliser ces traitements à un âge où la qualité ovocytaire est encore optimale.
- Il est essentiel de chercher la meilleure manière de réaliser le traitement chez nos patientes, en tenant compte de leurs priorités et en perturbant le moins possible leurs méthodes contraceptives.
- L'amélioration des techniques de laboratoire, tant pour la congélation que pour la décongélation des ovocytes, nous a permis d'améliorer les résultats de la technique.
- Le développement de l'intelligence artificielle pourrait nous permettre d'obtenir plus d'informations sur la qualité des ovocytes récupérés, afin de mieux conseiller nos patientes.





Merci beaucoup

