



Violet
by Future Fertility

Egg Freezing Insights

Image-based AI assessment of egg quality
for cryopreservation

Clinic Logo Here

Valentina's Personalized Egg Quality Assessment

Patient

Patient ID 123456
Patient Name Valentina González
Date of Birth 19 Aug 1996
Date of Report 08 Oct 2024

Clinic

Doctor Maria García Ramírez
Clinic Future Fertility Clinic
Phone (123) 456-7890
Email info@clinic.com

Report

Date of Retrieval 07 Oct 2024
Age at Retrieval 28 years old
of Mature Oocytes 12

VIOLET™ is an image-based AI tool that assesses *oocyte* (egg) quality and provides a personalized probability for each oocyte. A higher probability indicates greater chances of an oocyte to develop into a *blastocyst* (day 5-7 embryo).



Oocytes Evaluated

of Mature Eggs Evaluated by VIOLET™

12 MATURE OOCYTES

Assessed by VIOLET™



Blastocyst Prediction

Predicted # of Day 5-7 Embryos

Personalized chances of your eggs successfully thawing and developing *blastocyst* embryos.

AT LEAST 1 BLASTOCYST

97 %

PROBABILITY

MOST LIKELY OUTCOME

3-4

BLASTOCYSTS

OF BLASTOCYSTS
PROBABILITY

0	1-2	3-4	5-6	7-9	10-12
3 %	14 %	80 %	2 %	1 %	0 %



Live Birth Prediction

Potential to Have a Baby

Personalized chances of having a baby (*live birth*) from your retrieved eggs based on VIOLET™ assessment and statistical modelling.

AT LEAST 1 LIVE BIRTH

46 %

PROBABILITY

AT LEAST 2 LIVE BIRTHS

14 %

PROBABILITY

Comparison to Age Average

To Have at Least 1 Baby

Your personalized VIOLET™ prediction for having at least 1 baby is
LOWER THAN AVERAGE

Compared to **64-75%** predictions from generic live birth calculators based only on your age (28y) & number of mature oocytes frozen (12).



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Valentina's Egg Images & AI Predictions

Patient ID 123456
Patient Name Valentina González
Date of Birth / Age 19 Aug 1996 / 28y

Below are images of your eggs taken under 20-40x magnification with their unique probability of successfully becoming a blastocyst embryo.

Straw 1 | 1 of 3

Egg 1



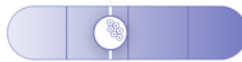
71 %
BLASTOCYST



Egg 2



43 %
BLASTOCYST



Egg 2



35 %
BLASTOCYST



Straw 2 | 2 of 3

Egg 4



19 %
BLASTOCYST



Egg 5



83 %
BLASTOCYST



Egg 6



14 %
BLASTOCYST



* Individual insights shown alongside each egg image are included as per your clinic's data preferences. Please speak with your care team to confirm if your report includes individual Blastocyst and Euploid predictions.



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Valentina's Egg Images & AI Predictions

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Below are images of your eggs taken under 20-40x magnification with their unique probability of successfully becoming a blastocyst embryo.

Straw 3 | 3 of 3

Egg 7



55 %
BLASTOCYST



Egg 8



21 %
BLASTOCYST



Egg 9



77 %
BLASTOCYST



Egg 10



25 %
BLASTOCYST



Egg 11



19 %
BLASTOCYST



Egg 12



44 %
BLASTOCYST



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Patient Resources



Oocyte Retrieval

Retrieve & assess mature oocytes following ovarian stimulation

Oocyte Freezing & Thawing

Mature oocytes are cryopreserved & thawed when ready to be used

Fertilization

Mature oocytes are fertilized with sperm



Assess & Transfer Blastocyst

Embryos that reach **blastocyst** stage may be tested for **euploidy** and selected for transfer / freezing

Implantation

Embryo implants into uterine lining as determined by serum blood test



Live Birth

Successful delivery of a baby

How Our AI Model Works

The Science Behind the AI Predictions



Mature Oocyte



AI-Based Segmentation

- **VIOLET™ AI** non-invasively analyzes mature oocyte cell structures and minuscule, pixel-level image details.
- A "mask" automatically segments critical areas of the cell for the AI model to assess.
- The model applies patterns and learnings from a database of 650k+ images and real-life developmental outcomes from clinics across the world to calculate personalized predictions for each of your oocytes.

Find More Resources Online



- Read our scientific research publications
- Find more FAQs
- View our blog posts
- And much more!

futurefertility.com/violet-my-report

Definitions

- **Mature Oocyte** An egg that is fully developed & ready to be fertilized by sperm.
- **Blastocyst** Embryo development stage that occurs between days 5-7 after fertilization.
- **Euploid Blastocyst** A blastocyst embryo that contains the correct number of chromosomes (23 pairs) & is correlated with greater chances of pregnancy success.
- **Semen Analysis** Sperm evaluation based on sample concentration, motility, & morphology.
- **Receptive Uterus** Lining of uterus is in ideal condition for an embryo to implant.
- **Live Birth** Successful delivery of a baby.

Frequently Asked Questions

Why does VIOLET™ only analyze mature oocytes?

Mature oocytes (eggs) have completed the developmental stages to enable fertilization and are therefore suitable for egg freezing and VIOLET™ analysis.

Why is blastocyst development and euploidy important to consider in egg freezing?

Reaching the blastocyst stage is a key milestone because these embryos have a higher chance of implantation when they are transferred into the uterus. Euploidy blastocysts are considered chromosomally normal embryos, having 23 pairs of chromosomes, and have lower rates of genetic errors and are more likely to develop into a healthy baby. It is important to remember that even euploid blastocyst may not result in a live birth, because of other processes and factors that need to occur to support implantation and ultimately a successful pregnancy.

How is the live birth prediction determined?

Your live birth prediction is based on (1) your personalized egg quality assessed by VIOLET™ and (2) statistical modelling which accounts for impacts of egg freezing and thawing, as well as the euploidy predictions which influence your chances of reaching live birth. The prediction estimates the chances that you will have at least one or two babies from all the eggs you froze.

How does the live birth prediction impact my fertility planning?

Your unique prediction is compared to a standard approach of calculating live birth which uses only your age group and total number of eggs. If the live birth prediction is lower than expected, you may decide to pursue additional egg freezing cycles to increase your cumulative chance of success. If you pursue multiple cycles, Future Fertility provides a complimentary VIOLET™ summary report with updated calculations based on your eggs and their unique predictions.

650k+
Oocyte Images

WORLD LEADING
DATASET

7
Scientific Papers

PUBLISHED IN PEER
REVIEWED JOURNALS

100+
Abstracts

AT ACADEMIC
CONFERENCES

300+
Clinics

ACROSS 35+
COUNTRIES

4
Patient Awards

FOR INNOVATION IN
FERTILITY CARE



Disclaimer & Additional Information

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 and ploidy status [1-3]. Outcome predictions are based on proprietary technology combining VIOLET™ image analysis (Oocytes > Blastocysts and Ploidy) and statistical modeling (Euploid blastocyst > Live Birth) [4-9]. Assessments may be affected by image quality and assume a normal semen analysis, without specific uterine receptivity issues.

Future Fertility strives to provide the most precise results using state-of-the-art technologies and software development. VIOLET™ is not intended to substitute professional medical advice or replace the patient-doctor consultation. Please speak to your health care provider about your circumstances prior to making any decisions. Commercially available as per: CE Mark, Health Canada, MHRA & ANVISA. ISO 13485, HIPAA and GDPR compliant. For investigational use only in USA. IRB Tracking Number: 2021-2732-6559-2. Patent futurefertility.com/en/virtual-patent-marking

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Feedback & Support

For questions or ideas, please contact our Customer Support team
support@futurefertility.com

For clinical inquiries, please contact our Medical Director
md@futurefertility.com

Version

Violet Cryo R5.0 | OBv3.0 & OEv3.0 | RPv3.0