Magenta™
by Future Fertility

IVF-ICSI Insights
Image-based AI assessment of egg quality
for IVF-ICSI cycles

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Valentina's Personalized Egg Quality Assessment

Patient

Patient ID	123456
Patient Name	Valentina González
Date of Birth	15 Aug 1989
Date of Report	16 Jun 2023

Clinic

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

Report

Date of Retrieval	16 Jun 2023
Age at Retrieval	33 years old
# of Mature Oocytes	8

MAGENTA™ is an image-based AI tool to assess *oocyte* (egg) quality and provides a personalized score from 0-10 and probability for each oocyte. Higher values indicate greater chances of an oocyte to develop into a *blastocyst* (day 5-7 embryo) and to be *euploid* (23 pairs of chromosomes).

Oocytes Evaluated
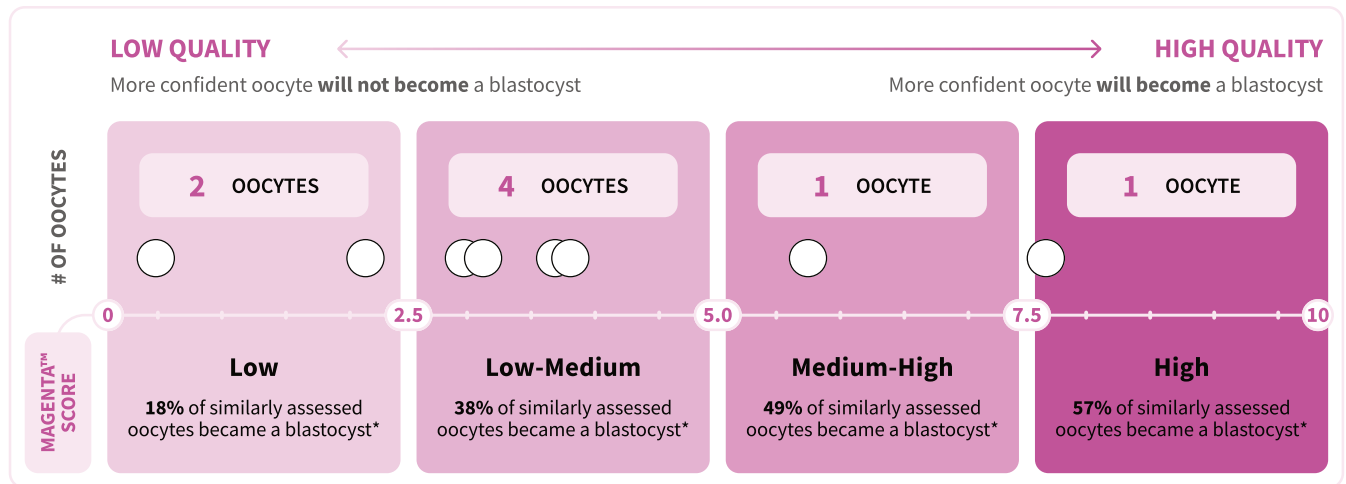### # of Mature Eggs Evaluated by MAGENTA™

8 MATURE OOCYTES   Assessed by MAGENTA™

MAGENTA™ Oocyte Quality Score
Egg Quality Score (0-10)

Personalized AI assessment of your eggs. Higher MAGENTA™ scores represent higher quality eggs and correlate with an increased chance to become a *blastocyst* embryo.

LOW QUALITY ←————————————→ **HIGH QUALITY**

More confident oocyte **will not become** a blastocyst   More confident oocyte **will become** a blastocyst

OF OOCYTES

MAGENTA™ SCORE

2 OOCYTES	**4** OOCYTES	**1** OOCYTE	**1** OOCYTE
0 — 2.5	2.5 — 5.0	5.0 — 7.5	7.5 — 10
Low	**Low-Medium**	**Medium-High**	**High**
18% of similarly assessed oocytes became a blastocyst*	**38%** of similarly assessed oocytes became a blastocyst*	**49%** of similarly assessed oocytes became a blastocyst*	**57%** of similarly assessed oocytes became a blastocyst*

*The probability of blastocyst development is based on an external dataset of ~12,000 oocyte images previously assessed by MAGENTA™ and the observed blastocyst development of oocytes in this score range. True blastocyst development will depend on clinic blastocyst rates, but as MAGENTA™ scores increase, blastocyst development probabilities also increase.

Euploidy Insights
Predicted # of Euploid Blastocysts

Personalized chances of developing *euploid* blastocysts from your mature eggs.

AT LEAST 1 EUPLOID	MOST LIKELY OUTCOME
91% PROBABILITY	**1-2** EUPLOIDS

OVERVIEW OF PREDICTED OUTCOMES

# OF EUPLOIDS	0	1-2	3-4	5-6	7-8	9-10
PROBABILITY	15%	72%	9%	2%	1%	0%

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Valentina's Egg Images & AI Assessments

Patient ID	123456
Patient Name	Valentina González
Date of Birth / Age	15 Aug 1989 / 33y

Below are images of your eggs taken under 20-40x magnification with their unique MAGENTA™ scores and euploid predictions.

Sorted by egg ID

Egg 1

3.2 /10
MAGENTA™
SCORE

30 % Likelihood of being euploid

Egg 2

7.6 /10
MAGENTA™
SCORE

47 % Likelihood of being euploid

Egg 3
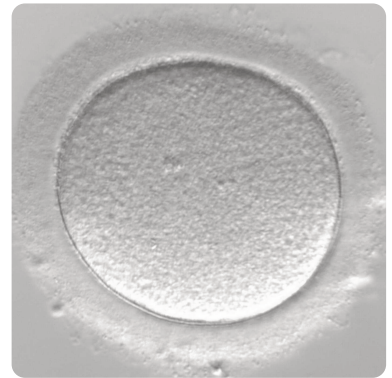
6.1 /10
MAGENTA™
SCORE

40 % Likelihood of being euploid

Egg 4

2.9 /10
MAGENTA™
SCORE

19 % Likelihood of being euploid

Egg 5

3.8 /10
MAGENTA™
SCORE

32 % Likelihood of being euploid

Egg 6

2.0 /10
MAGENTA™
SCORE

12 % Likelihood of being euploid

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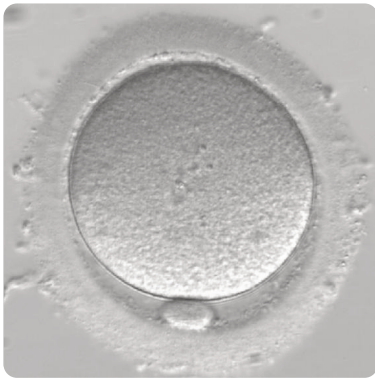
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Valentina's Egg Images & AI Assessments

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Date of Birth / Age   15 Aug 1989 / 33y

Below are images of your eggs taken under 20-40x magnification with their unique MAGENTA™ scores and euploid predictions.

Sorted by egg ID

Egg 7

3.9 /10
MAGENTA™
SCORE

34 %   Likelihood of being euploid

Egg 8

1.8 /10
MAGENTA™
SCORE

9 %   Likelihood of being euploid

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Patient Resources

Oocyte Retrieval
Retrieve & assess mature oocytes following ovarian stimulation

MAGENTA™ Quality Scoring
Non-invasive AI assessment used to quantify oocyte quality

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

Clinical Pregnancy
Detection of fetal sac & heartbeat from ultrasound

Live Birth
Successful delivery of a baby

How Our AI Model Works
The Science Behind the AI Assessment

Mature Oocyte — Cytoplasm, Polar Body, Zona Pellucida, Perivitelline Space

AI-Based Segmentation

- **MAGENTA™ 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 150k+ images and real-life developmental outcomes from clinics across the world to calculate personalized quality assessments 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/magenta-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 the MAGENTA™ report only analyze mature oocytes?
Only mature oocytes (eggs) have completed the necessary developmental steps to enable fertilization and are therefore at the correct stage for IVF and/or ICSI.

Why is blastocyst development and euploidy important to consider in IVF and ICSI?
Reaching the blastocyst stage is a key milestone because these blastocyst 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 blastocysts may not result in a live birth, because of other processes that need to occur to support implantation and ultimately a successful pregnancy.

Are eggs with higher scores guaranteed to become blastocysts and lead to live birth?
Egg quality is a key part of your fertility journey. Blastocyst development and a successful pregnancy are influenced by many factors, including sperm quality, lab rates, and uterine factors. Due to these factors, egg quality scores alone cannot fully guarantee outcomes.

Will a specific egg be selected when it is time to use them?
Every clinic has their own scientific method of selecting the best embryos for transfer. The MAGENTA™ report provides information about your egg quality to support the decision making process and counselling for your fertility planning.

How can MAGENTA™ scores impact my fertility planning?
MAGENTA™ scores offer personalized insights into your fertility health to help manage expectations and guide treatment planning. For example, if egg quality is high but the cycle fails then other factors, such as sperm quality, may be considered and optimized in future cycles.

150k+
Oocyte Images
IN MAGENTA™ ARTIFICIAL INTELLIGENCE MODEL

2
Scientific Papers
PUBLISHED IN PEER REVIEWED JOURNALS

25+
Abstracts
IN ACADEMIC CONFERENCES

25+
Countries Served
AVAILABLE IN 120+ CLINICS ACROSS 5 LANGUAGES

3
Patient Awards
FOR INNOVATION IN FERTILITY CARE

2024 Fertility Care Awards WINNER

Disclaimer & Additional Information

MAGENTA™ 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 [1-6]. Outcome scores and predictions are based on proprietary technology combining MAGENTA™ image analysis (Oocytes > Blastocysts and Ploidy). Assessments may be affected by image quality and assume a normal semen analysis; however, other external factors may impact blastocyst development.

Future Fertility strives to provide the most precise results using state-of-the-art technologies and software development. MAGENTA™ 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 & GDPR compliant. For investigational use only in USA. IRB Tracking # 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

Magenta IVF R5.0|OBv3.0 & OEv3.0|RPv3.0