

Jane Smith's Embryo Report

SUMMARY

You have

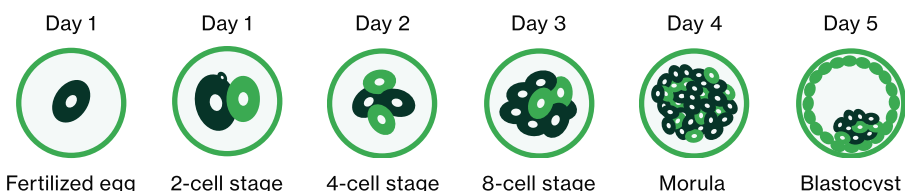
4 embryos

that have developed to blastocyst stage

***Remember attrition at this stage is normal. Not every fertilized egg will grow to the blastocyst stage.**

WHAT IS A BLASTOCYST EMBRYO?

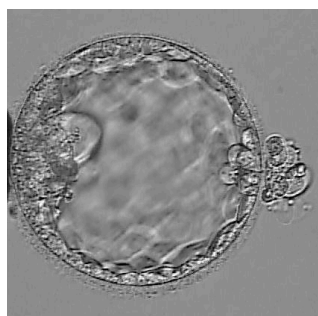
Once your eggs were retrieved and fertilized, the resulting embryos were cultured in the lab until they reached the blastocyst stage.



At this stage of development, your embryos are ready to be frozen, biopsied for Preimplantation Genetic Testing (PGT), or transferred to the uterus.

Your embryos

DAY 5 EMBRYOS



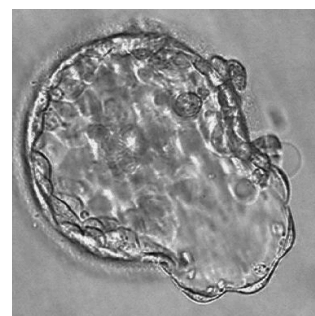
AI score: **0.6**
Lab grade: **5BA**
Embryo 1



AI score: **0.6**
Lab grade: **4AB**
Embryo 2



AI score: **0.6**
Lab grade: **5BB**
Embryo 3

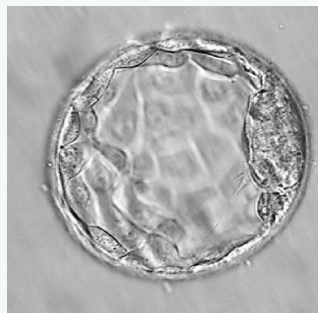


AI score: **0.6**
Lab grade: **5CC**
Embryo 4

How to interpret your report

What does the “Day” mean?

DAY 5 EMBRYOS



The “Day” on your report refers to the day that an embryo reaches the blastocyst stage of its development.

The day an embryo reaches the blastocyst stage is another important component of embryo grading. Typically, embryos reach this stage on Day 5, or Day 6 after fertilization.

What does the AI score mean?

AI score scale

0.0

Embryos **less likely** develop into a successful pregnancy

1.0

Embryo **more likely** develop into a successful clinical pregnancy

The score shown on each embryo is the confidence that the algorithm has in that embryos ability to develop into a successful pregnancy. The higher the score, the more likely it could result in a successful pregnancy.

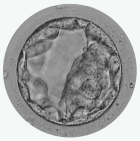
This score is calculated by an algorithm that’s been trained on thousands of embryos. It identifies patterns and similarities between embryos of successful pregnancies, and uses that information to give a personalized score for your embryos.

Clinical pregnancy is a pregnancy that has been medically confirmed by visualizing a gestational sac, or fetal heartbeat through an ultrasound scan.

What does the “Lab grade” mean?

Embryo grading is a system to help embryologists determine the quality of an embryo. Using this system, embryos are given an grade that describes the morphological appearance of an embryo. At Gynera Fertility, our grading system involves 3 quality scores: **Expansion**, **Inner Cell Mass (ICM)**, **Trophectoderm (TE)**. The grade consists of a number and two letters (Example, 4AA).

Expansion - The first number of the lab grade represent how expanded the embryo cavity is



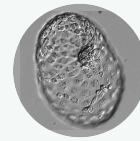
Early Blastocyst (1-2)
A blastocyst in which the cavity fills the embryo and outer shell has not started to thin.



Expanded Blastocyst (3-4)
The blastocyst is expanding, the cavity is larger, and the outer shell thins



Hatching Blastocyst (5)
The embryo has begun to hatch out of outer shell



Hatched Blastocyst (6)
The embryo has fully hatched

Inner Cell Mass (ICM) - The first letter represents the ‘inner cell mass’

“A” is the best grade and has many tightly packed cells



Inner Cell Mass



Grade A
Many tightly packed cells



Grade B
Many loosely grouped cells



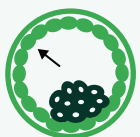
Grade C
Very few cells



Grade D
No ICM

Trophectoderm (TE) - The second letter represents the trophectoderm, or outer layer of cells

“A” is the best grade and has lots of cells around the outside of the blastocyst



Trophectoderm



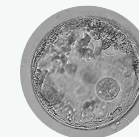
Grade A
Lots of small, similar shaped cells



Grade B
Fewer asymmetrical cells



Grade C
Very few cells of even size

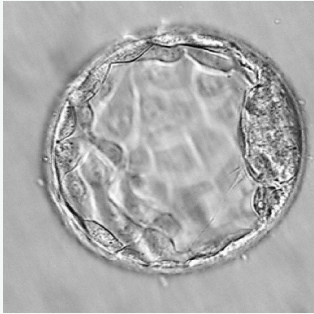


Grade D
A few large cells often creating a large continuous layer

Example of how to interpret AI and embryo grades

Example embryo

DAY 5 EMBRYOS → This embryo reached the blastocyst stage on Day 5



→ Image captured on Day 5

AI score: **0.72** → 0.72 AI score coordinates with a higher chance of clinical pregnancy success

Lab grade: **4AB** → The embryo grade means:

- **4:** Expanded blastocyst
- **A:** Inner cell mass is tightly packed
- **B:** The trophectoderm has a medium (fewer than A but more than C) amount of cells

Frequently asked questions

Why does embryo grading matter?

Keep in mind that at Gynera, we only utilise blastocysts that we believe have a chance of creating a baby. Chances of success largely depend on other factors, such as age at retrieval, euploidy status, and day of freeze.

You may be utilizing PGT-A (genetic testing) to determine which embryos are euploid (chromosomally normal) and which are aneuploid (chromosomally abnormal). A euploid embryo will be selected for transfer over an aneuploid embryo, regardless of grade. Furthermore, neither embryo grade nor embryo score predict euploidy.

[Learn more about genetic testing →](#)

How important is embryo grading for success rates?

It is important to remember that embryo grading is just one factor that goes into determining your chance of a successful embryo transfer. Your chance of success is also impacted by your age at egg retrieval, the receptivity of your uterine lining, your hormone levels, among other things.

Does AI score matter?

The AI score is a way to help your embryologist to determine the best embryo to transfer, based on an embryo's likelihood of leading to pregnancy. While the AI has been clinically proven to be reliable, it is up to your embryology team to ultimately make a final decision and determine which is the best embryo to transfer.

What comes next?

Your next steps may vary based on the decisions you and your clinical team make moving forward.

Here's an overview of what to expect:

-  If you choose to do **preimplantation genetic testing (PGT)** on your embryo(s), you will typically receive your results within two weeks after biopsy. Your embryos will remain frozen until the time you are ready to use them.
-  If and when you **decide to proceed with a frozen embryo transfer (FET)**, please call our office. And we'd be happy to start the process for you.
-  If you are **planning to start another cycle** and have not yet been in touch with our team, get in touch with your fertility care coordinator, you may need to call on the first day of your next period to get started.
-  If you have **already completed a fresh embryo transfer**, your clinical team will tell you when to schedule your pregnancy test.

If you have any additional questions, please don't hesitate to contact us

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