

Do you want a boy or a girl?



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Medical Procedure: How to choose the gender of your child?

... In Vitro Fertilization (IVF)
体外受精



Vitro = Glass
In "Glass" Fertilization

In "Glass" Petri Dish

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IVF: History



First IVF 1978...

Louise Brown
In England



2013...

Louise Brown +
her own baby

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IVF in Media: "Test Tube Baby"



photo



diagram for PowerPoint

petri dish

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2021 Statistics



60,381 IVF births
(~ 7.4%)

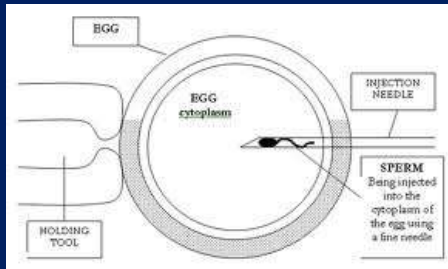


97,128 IVF births
(~2.3%)

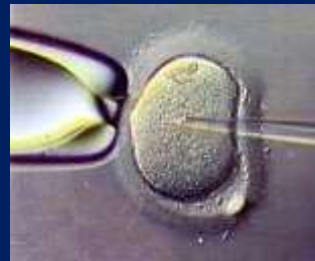
Critical Thinking Question:
Why is Japan 300% higher than US

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IVF: How is it done?



Microscopic Diagram 顕微鏡の図



Microscopic Image 顕微鏡の写真



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Where does the sperm come from?

A diagram showing a glass petri dish labeled "sperm 精子" (sperm 精子). Two arrows point towards the dish: one from the left and one from the top-left. A bracket groups these arrows with a list of sources. A label "glass petri dish in vitro" points to the dish.

- the husband
- a deceased husband
- sperm donor
- deceased sperm donor

glass petri dish
in vitro

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Where can the sperm come from?

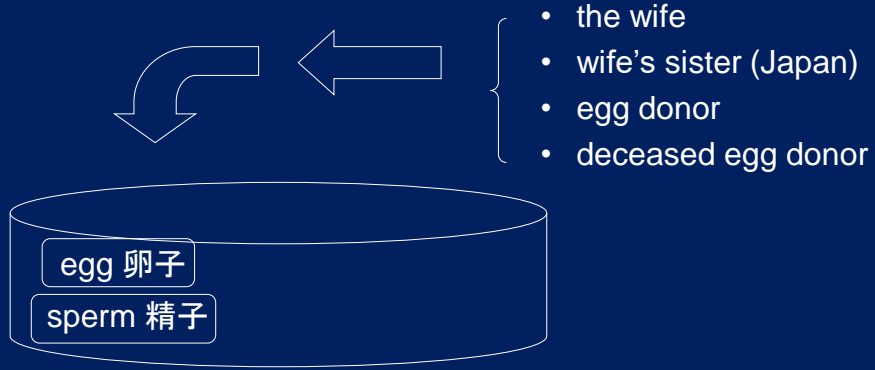
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glass petri dish
in vitro

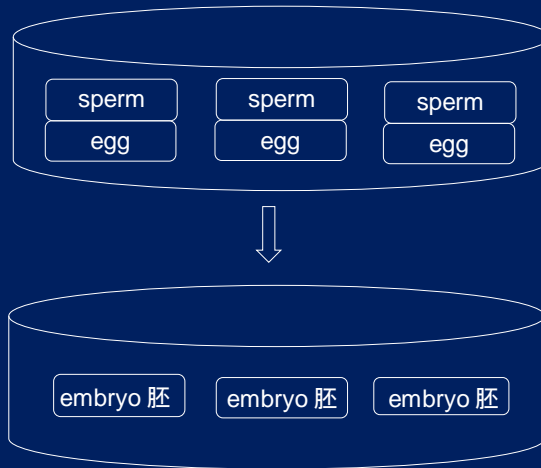
8

Where can the egg come from?



9

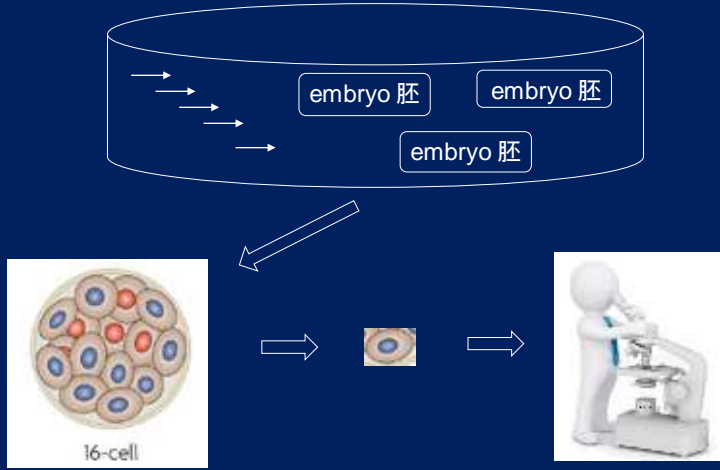
How many?



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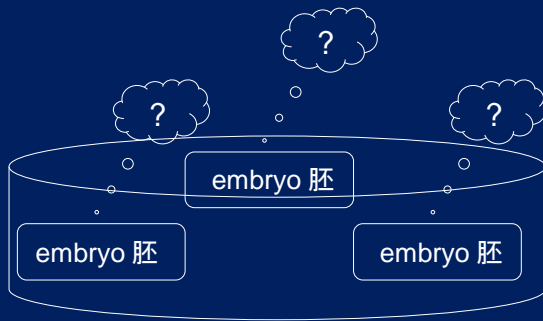
Embryo Grows

After 5 days: examine embryo ...



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What can we tell about the embryo 胚...



we can learn...

- many diseases
- sex of child
- genetics
 - divorce gene
 - Alzheimer's gene
- in the future ??
 - eye color?
 - IQ?
 - athletic ability?
 - musical talent?

PGD = Pre-implantation Genetic Diagnosis
 = 体外受精した胚の遺伝的診断

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Result: Choose the Gender of Your Future Child

