

Embryology



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Introduction

Embryology is the study of how a **baby develops** before birth. It starts at **fertilization**, when a sperm joins an egg. This process is important to understand human development.

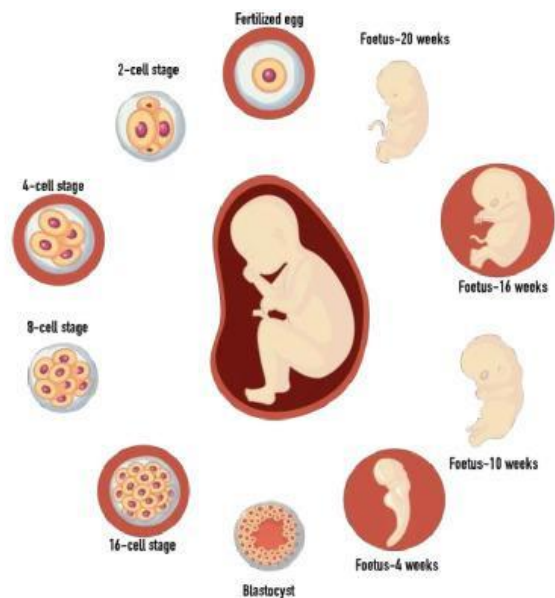
Fertilization

Fertilization happens when the **sperm cell** meets the **egg cell**. Together they form a **zygote**. The zygote begins to divide and grow. This marks the beginning of a new life.

Stages of Embryonic Development

The embryo develops in stages:

- **Zygote**
- **Embryo**
- **Fetus**



Each stage has important changes. Organs and systems begin to form during the embryonic stage.

Importance of Embryology

Embryology helps doctors understand **birth defects**, pregnancy problems, and normal growth. It is important in medicine and health sciences.

Comprehension Reading Activities – Embryology

True (T) or False (F)

- | | | |
|--|---|---|
| 1. Embryology studies adults. | F | T |
| 2. Development starts before birth. | F | T |
| 3. Fertilization begins life. | F | T |
| 4. A zygote forms after fertilization. | F | T |
| 5. The embryo does not grow. | F | T |
| 6. The fetus stage comes after the embryo. | F | T |
| 7. Organs form during development. | F | T |
| 8. Embryology is not useful in medicine. | F | T |
| 9. Sperm and egg join together. | F | T |
| 10. Human development has stages. | F | T |

Multiple Choice

11. Embryology studies:

- a) plants
- b) animals
- c) **human development**

12. Fertilization occurs when:

- a) two eggs meet
- b) **sperm and egg join**
- c) baby is born

13. Zygote is:
- a) an adult
 - b) **first cell**
 - c) organ
14. After zygote comes:
- a) fetus
 - b) adult
 - c) **embryo**
15. Organs begin to form in the:
- a) adult
 - b) **embryo**
 - c) sperm
16. The fetus stage is:
- a) first
 - b) **later**
 - c) before fertilization
17. Embryology helps understand:
- a) exercise
 - b) **birth defects**
 - c) sleep
18. Development happens:
- a) only at birth
 - b) **before birth**
 - c) after death
19. Fertilization marks:
- a) the end of life
 - b) **the beginning of life**
 - c) disease
20. Embryology is important in:
- a) art
 - b) **medicine**
 - c) music

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