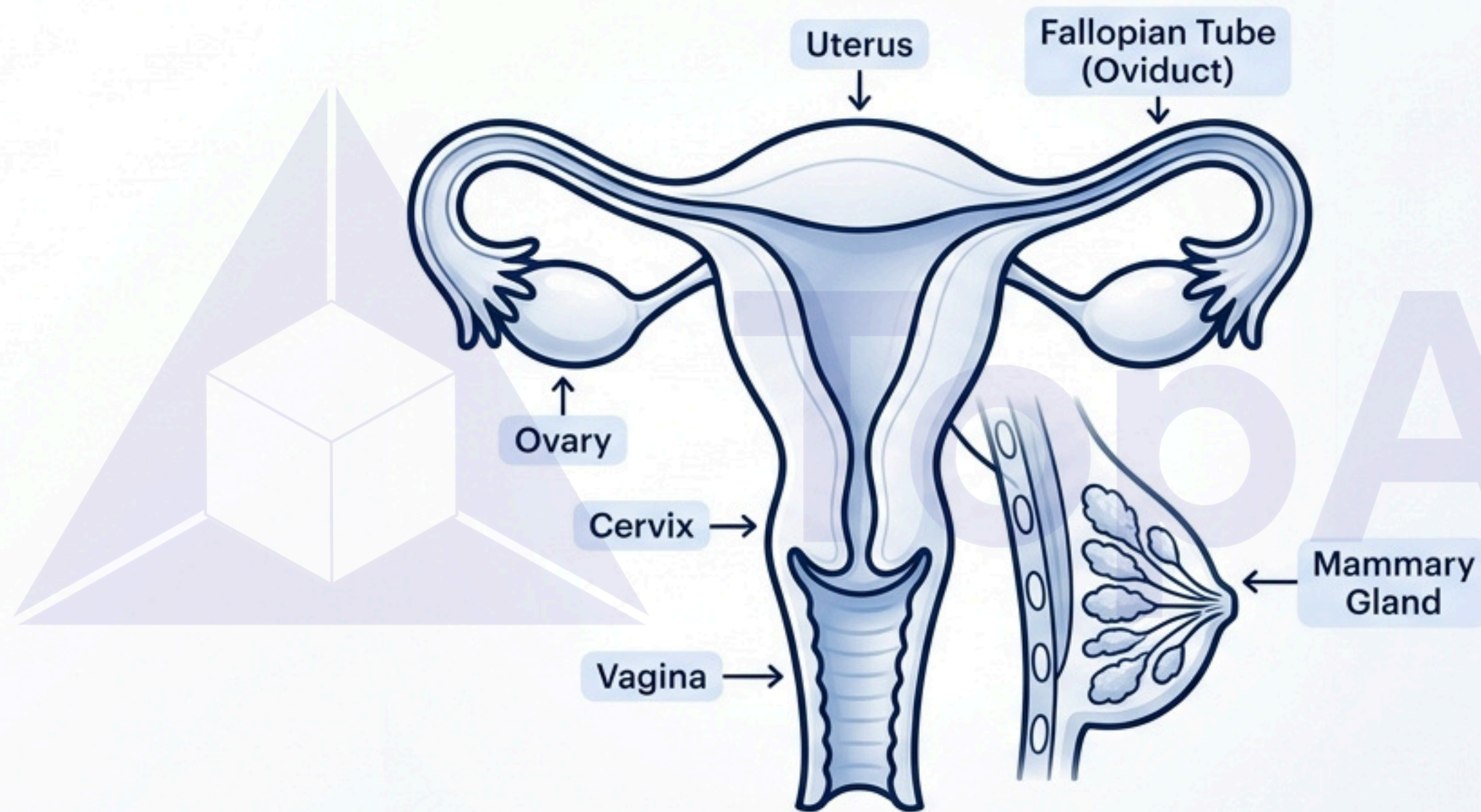
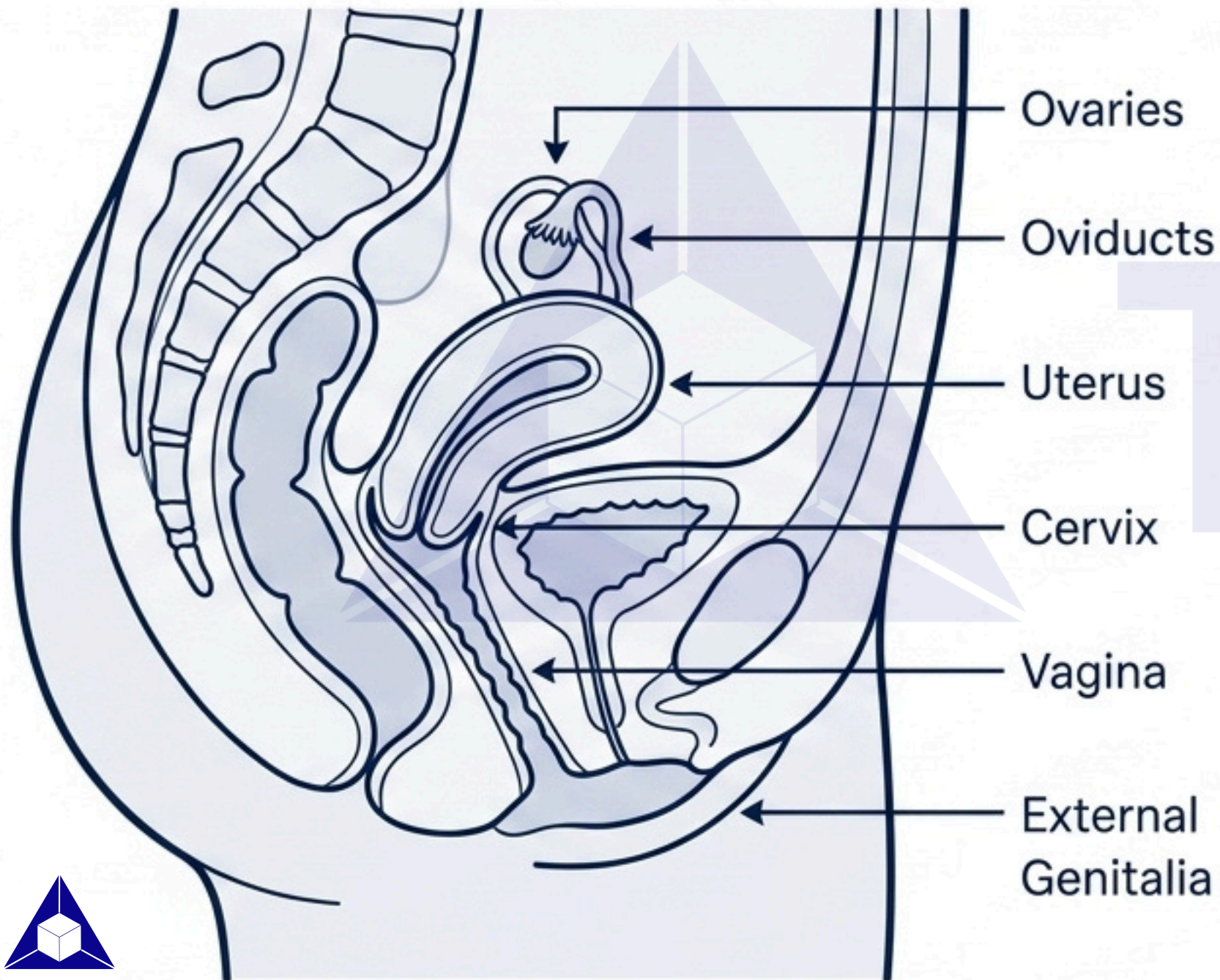


The Female Reproductive System



A Clinical Atlas for NEET:
Ovary, Oviduct, Uterus & Mammary Gland

The Pelvic Blueprint and Integrated Functions



System Integration

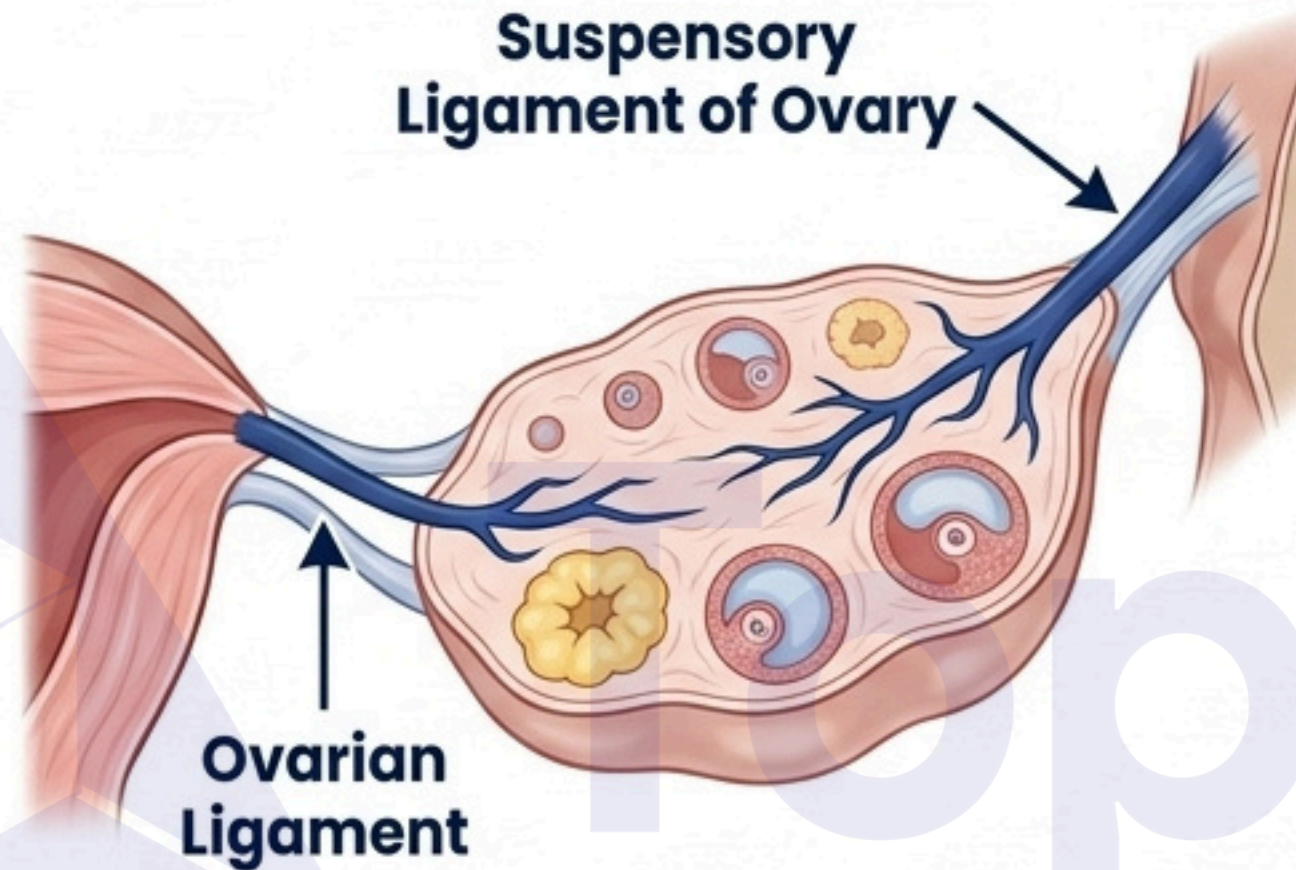
These pelvic organs, along with the mammary glands, are structurally and functionally integrated to support:

- Ovulation
- Fertilisation
- Pregnancy
- Birth
- Child care

Ovaries Act as the Primary Sex Organs

Dimensions: 2 to 4 cm in length.

Located on each side of the lower abdomen.



Structure:

Covered by a thin epithelium enclosing the ovarian stroma (divided into a peripheral cortex and an inner medulla).

Dual Function Matrix

1. Gametogenesis

Produces the female gamete (ovum).

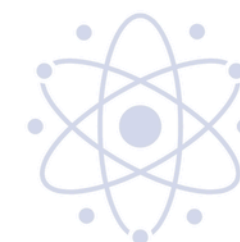
2. Endocrine Role

Secretes several steroid hormones (ovarian hormones).



You've Learned the Theory. Let's Test Them Now.

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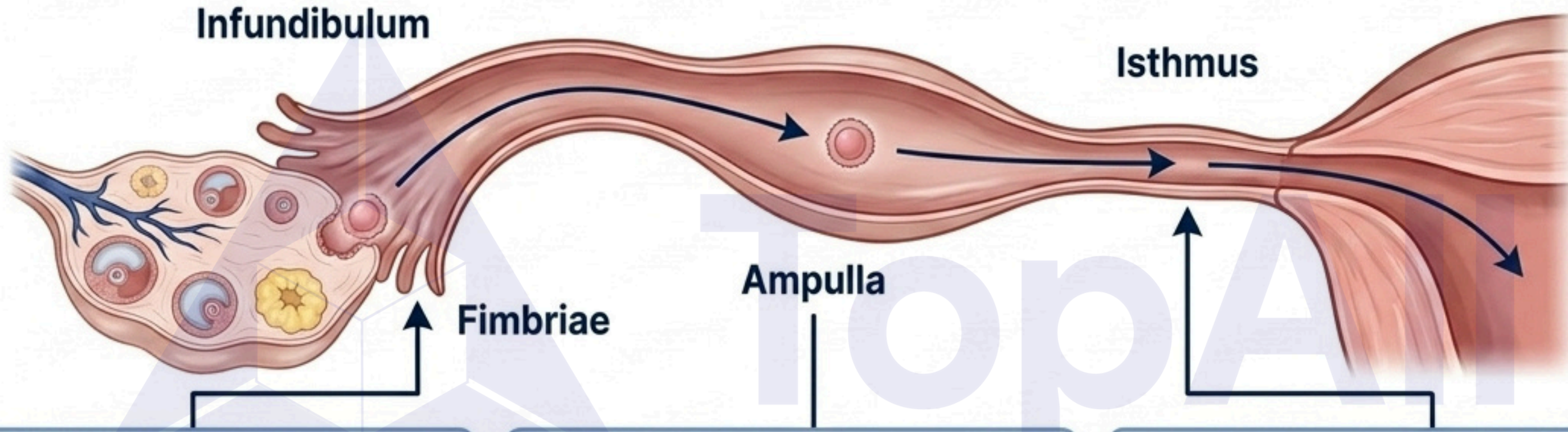
Key Highlights

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- » Push Your Limits with Level-Based Challenges
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The Oviduct Provides the Pathway to Fertilisation

Total tube length: 10–12 cm



Infundibulum

Funnel-shaped part closest to the ovary.

Fimbriae: Finger-like projections that collect the ovum after ovulation.

Ampulla

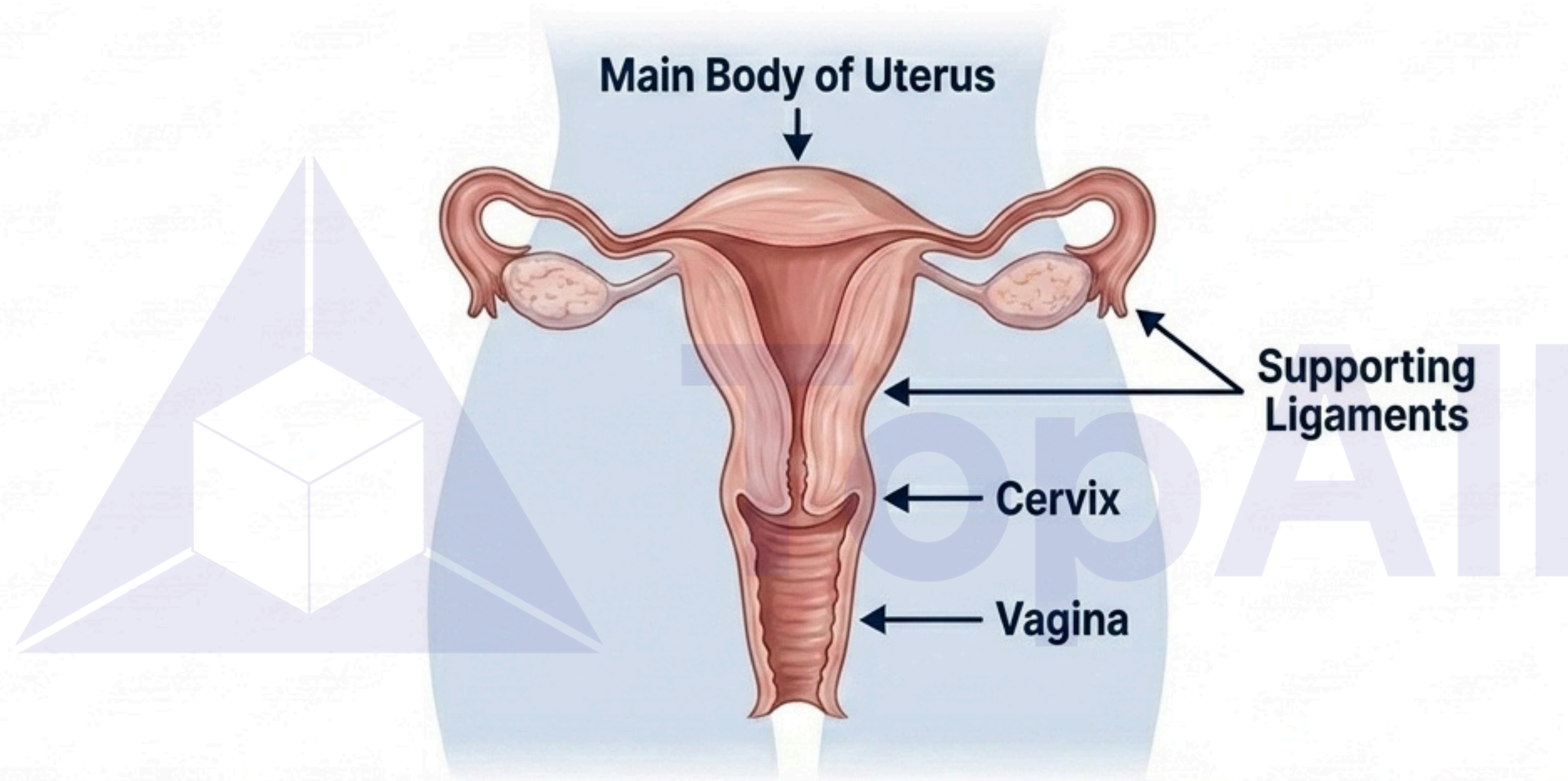
The wider section of the oviduct.

Key site of fertilisation

Isthmus

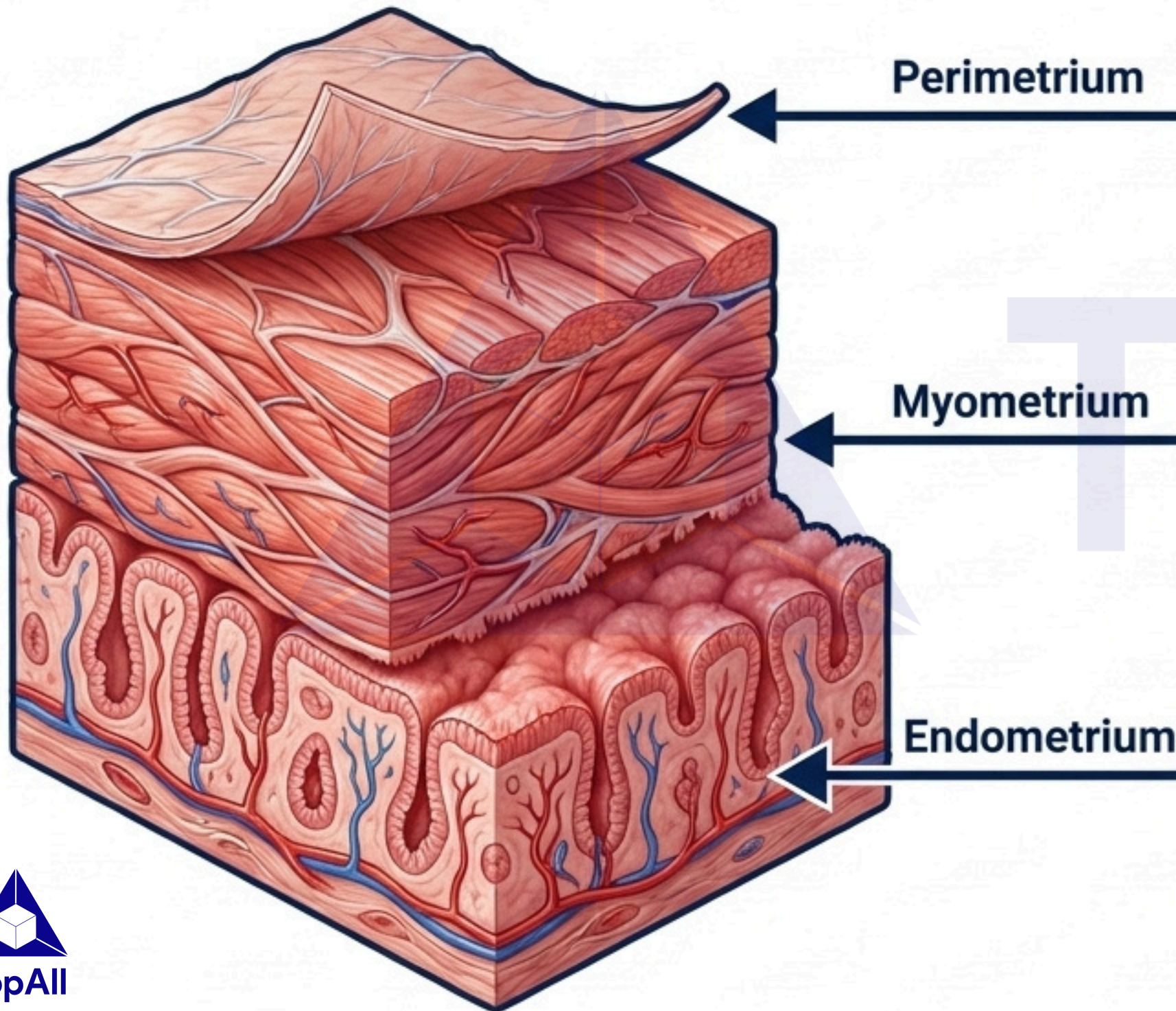
The final segment with a narrow lumen that joins the uterus.

The Uterus Supports Fetal Development



Cervical Canal + **Vagina** = **The Birth Canal**
(cavity of the cervix)

Three Distinct Tissue Layers Make Up the Uterine Wall



Outer Layer: Perimetrium

Tissue: Thin, membranous external covering.

Middle Layer: Myometrium

Tissue: Thick layer of smooth muscle.

Function: Exhibits strong contractions during the delivery of the baby.

Inner Layer: Endometrium

Tissue: Inner glandular layer lining the uterine cavity.

Function: Undergoes cyclical changes during the menstrual cycle; essential for embryo implantation.

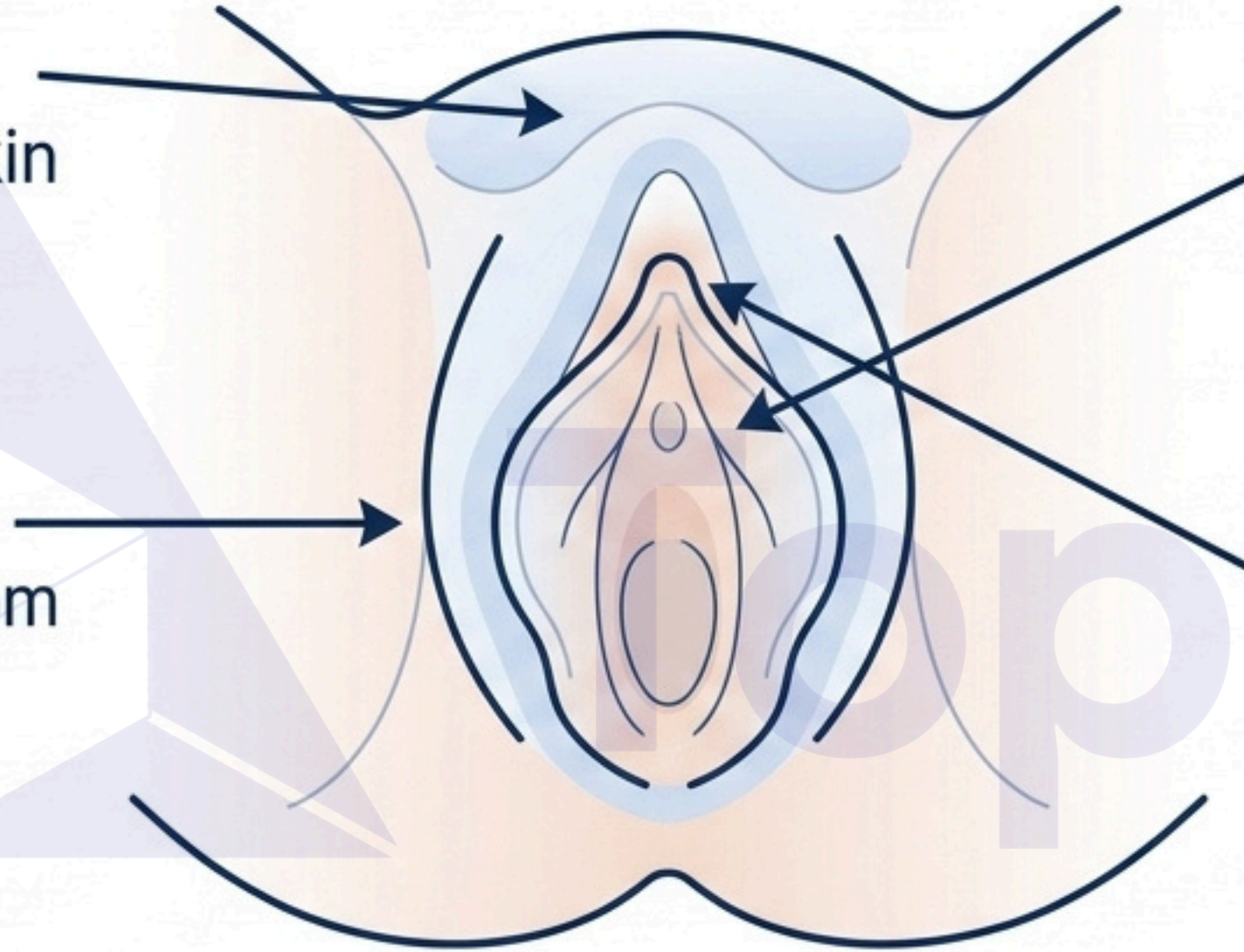
Anatomy of the External Genitalia

Mons pubis: Cushion of fatty tissue covered by skin and pubic hair.

Labia majora: Fleshy tissue folds extending from mons pubis, surrounding the vaginal opening.

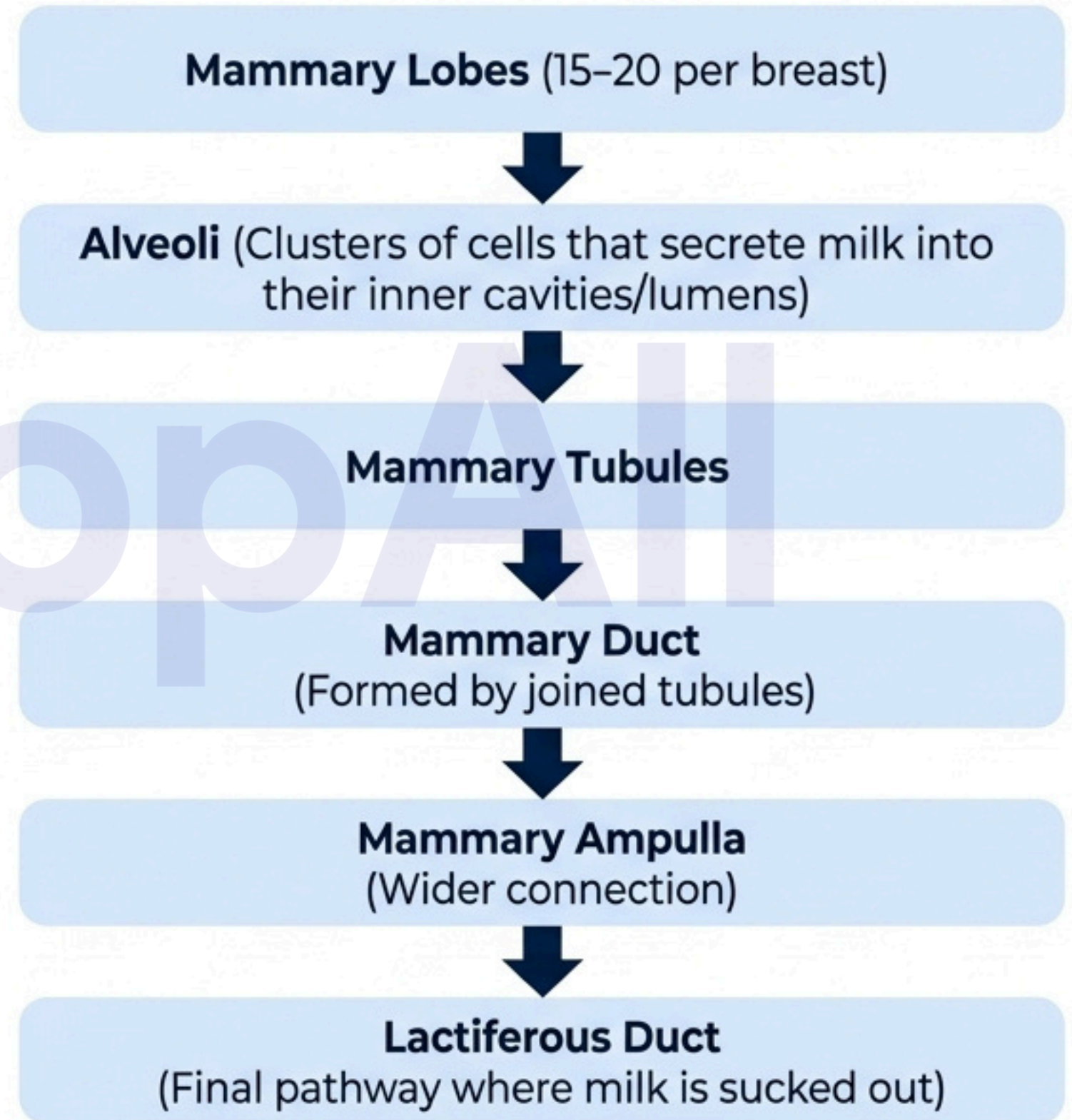
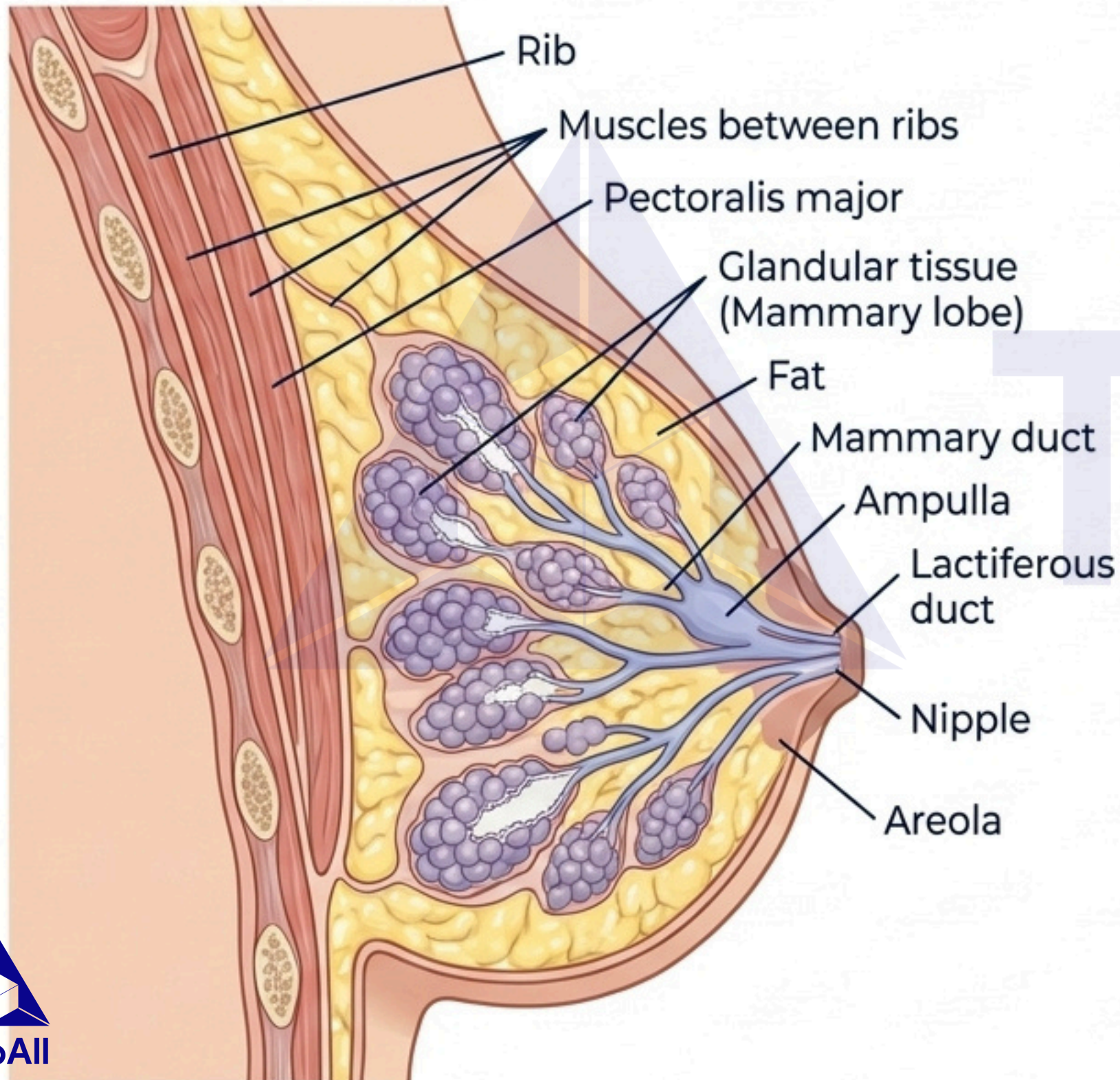
Labia minora: Paired tissue folds under the labia majora.

Clitoris: Tiny finger-like structure at the upper junction of the two labia minora, above the urethral opening.



Clinical Note on the Hymen: The hymen partially covers the vaginal opening but can be broken by sports (horseback riding, cycling), sudden jolts, or tampons. It is NOT a reliable indicator of virginity or sexual experience.

Mammary Glands Synthesize and Transport Milk



High-Yield NEET Anatomical Takeaways



- **Primary Organs:** The ovary acts dually to produce the ovum and secrete steroid hormones.
- **Collection:** Fimbriae on the infundibulum sweep and collect the ovum post-ovulation.
- **Fertilisation Zone:** The ampullary region of the oviduct is the critical site for fertilisation.
- **Pregnancy & Delivery:** The inner endometrium supports pregnancy cyclically, while the middle smooth muscle myometrium provides delivery contractions.
- **Birth Canal:** Formed by the union of the cervical canal and the vagina.



You've Learned the Theory.

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