

Parturition and Lactation

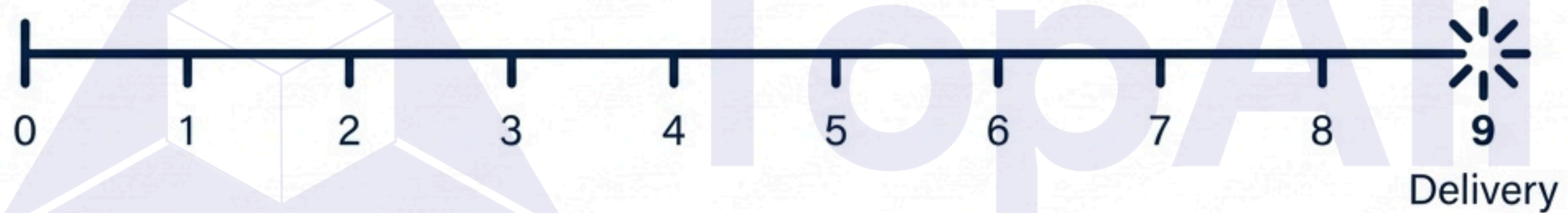
Childbirth, Oxytocin
& The First Milk



Class 12 Biology | Human Reproduction (NEET Series)

The Gestation Period

The average duration of human pregnancy is approximately **9 months**.



Gestation: The period of embryonic and foetal development inside the womb prior to birth.

What is Parturition?

The vigorous contraction of the uterus at the end of pregnancy causing the expulsion or delivery of the foetus.



The Delivery Triggers

Parturition is induced by a complex **neuroendocrine mechanism**.

1. Fully developed foetus

2. The Placenta



These two entities originate the **critical signals** that initiate the childbirth sequence.



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

$$E=mc^2$$



Turn theory into marks with **unlimited MCQs, smart analysis, and focused revision.**

Practice Now



At prep.topall.app

Key Highlights

- » Free Study Material, Videos & Infographics
- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter



The Foetal Ejection Reflex



The Trigger

Neuroendocrine signals from the fully developed foetus & placenta.

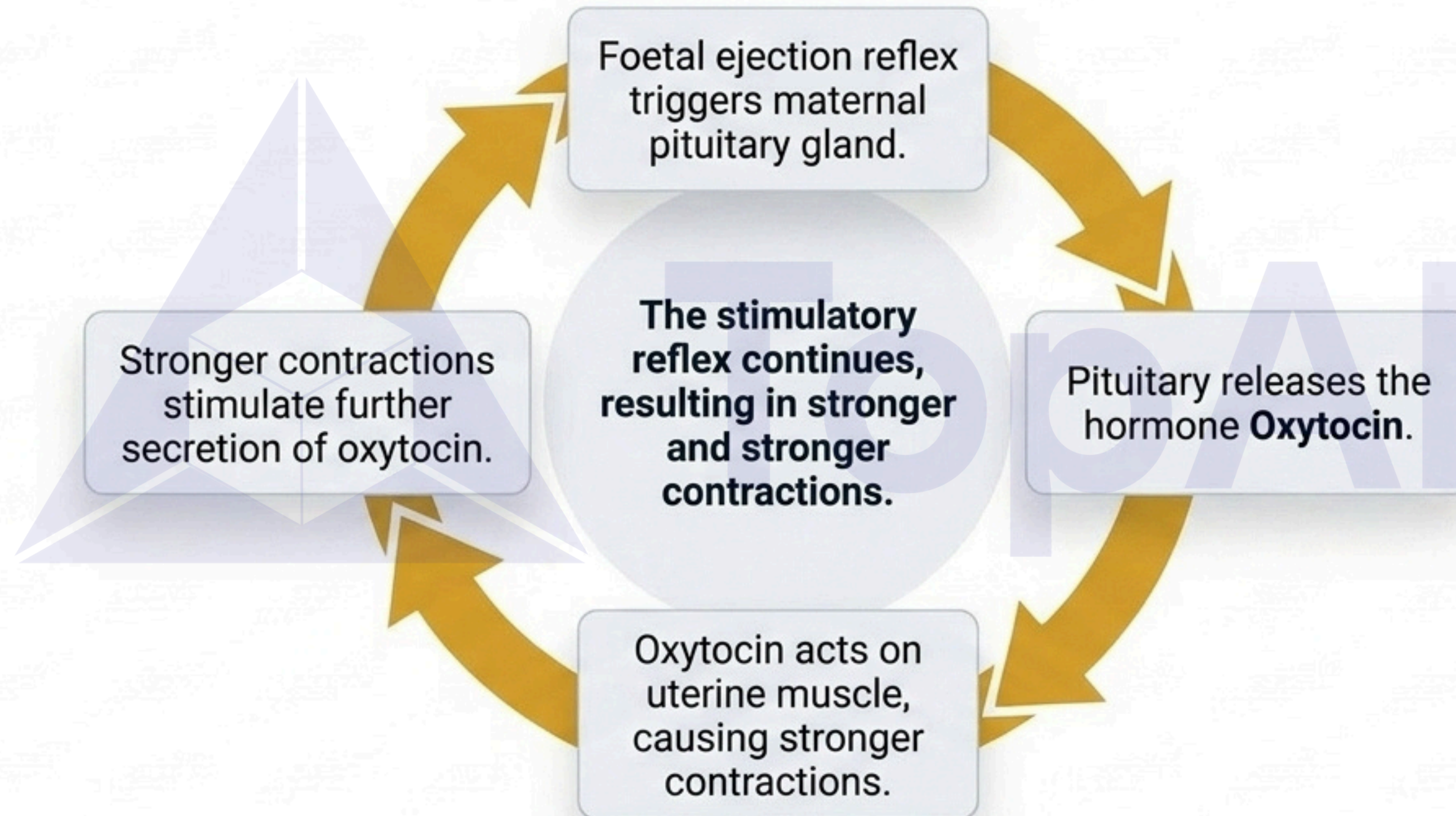


The Response

Induces mild uterine contractions.

This initial physical response is officially termed the **Foetal Ejection Reflex**.

The Oxytocin Positive Feedback Loop



Expulsion Phase



The extreme uterine contractions lead to the expulsion of the baby out of the uterus through the birth canal (Childbirth).



Soon after the infant is delivered, the placenta is also expelled out of the uterus.



Doctors often inject synthetic oxytocin to medically induce or strengthen these delivery contractions.

The Onset of Lactation

Lactation is the process by which mammary glands produce milk to feed the new-born.

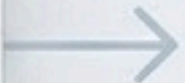
During Pregnancy

Mammary glands undergo structural differentiation.



End of Pregnancy

The glands actively start producing milk, ensuring nourishment is ready upon delivery.



Colostrum: The First Milk



The specific milk produced during the initial few days of lactation.

Contains several **antibodies** that are absolutely essential to develop immune resistance for the new-born baby.



Doctors strongly recommend breast-feeding during this initial period to bring up a healthy baby.

NEET Quick-Recall Matrix

The Parturition Mechanism	The Lactation Mechanism
• Triggered by: Fully developed foetus & placenta. • Mechanism: Foetal Ejection Reflex initiates a positive feedback loop of Oxytocin (from maternal pituitary) causing extreme uterine contractions.	• Function: Mammary glands differentiate to provide milk. • Key Term: Colostrum (the first milk). • Biological Value: Rich in antibodies essential for newborn immune resistance.



You've Learned the Theory.

Now Let's Test It.

Reading notes gets you knowledge.

Practicing MCQs gets you marks.

That's exactly what TopAll Pro is built for.

Try TopAll Pro Now

What TopAll Pro Does Differently

-  **Stuck? Snap it. Solve it. — Doubts AI**
Photo → step-by-step solution in seconds, 24/7
-  **Your AI Coach finds your blind spots**
Concept-level weakness detection — not just chapter-level
-  **4.5 Lakh+ questions. Never run out.**
13× more content than any other prep app in India
-  **Build your own test in 60 seconds**
Pick a chapter, set difficulty — AI does the rest instantly.
-  **AI Recommendation that helps you improve**
AI Recommendation Analysis your Tests and tell you where you need to improve.



Practice the moment you finish studying
Jump in while the concept is still fresh in your head

4.5L+
MCQs

1.5L+
Students

AI Powered
In-Depth Analysis