

# DESCENT OF GONADS (TESTIS/OVARY)

## TESTIS

Develops from medulla of genital ridge medial to mesonephric ridge in the dorsal abdominal wall



Proximal attachment of gubernaculum

- ① lower pole of testis/~~ovary~~
- ② peritoneum of sacculus vaginalis
- ③ mesonephric duct (posterolaterally)



Distal attachments:- Tails of Lockwood

- ① Base of genital swelling (scrotum - male  
labia majora - female)
- ② sup perineal pouch.
- ③ root of penis
- ④ saphenous opening
- ⑤ ASIS.



Milestones of descent



4th month - iliac fossa

7th month - deep inguinal ring

8th month - inguinal canal

at or slightly after birth - base of scrotum.

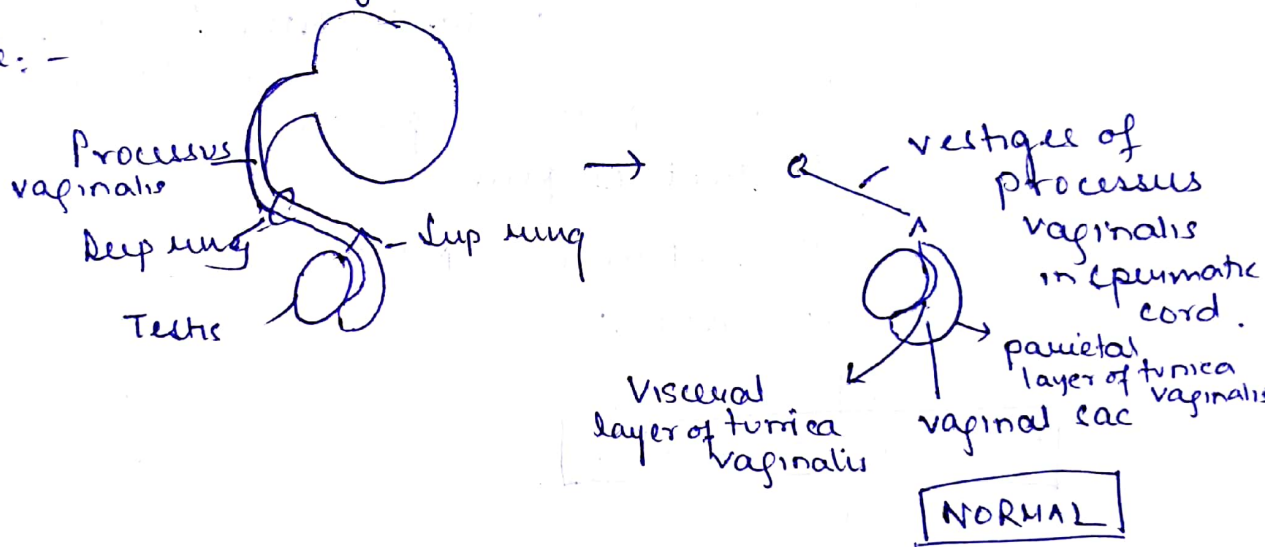
Factors for descent

- ① Testis descend because of its own skeleton - Testicular hormone from interstitial cells of Leydig.

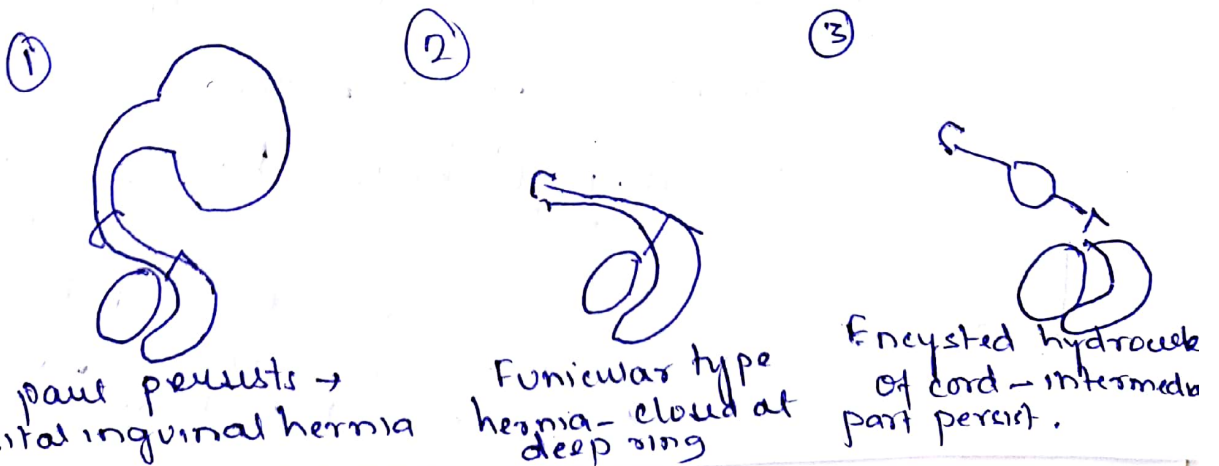
- ② ↑ intraabdominal temp -  $> 2^{\circ}\text{C}$  - Unsuitable for spermatogenesis
- ③ ↑ intraabdominal pressure.
- ④ contraction of arched fibres of internal oblique and transversus abdominis
- ⑤ uncurling of foetal curvatures
- ⑥ umbilical cord → acts as guiding force.

**Processus vaginalis:** - A pouch of peritoneum from lacus vaginalis that descends in front of the testis during descent.

Fate: -



Anomalies: -



## ANOMALIES OF DESCENT: -

- 1) ANDORCHISM - Bilateral undescended testis (cryptorchidism)
- 2) MONORCHISM - Unilateral undescended testis -
- 3) PARTIALLY DESCENDED TESTIS - incomplete descent → may be found anywhere along normal path.

T/t:- Testicular hormone

- Orchiopexy.

Fate:- if untreated - sterility

- 4) ECTOPIC TESTIS - due to misdirected pull of the distal attachment of gubernaculum. May be found ~~anywhere~~
  - ① ASIS
  - ② Inguinal opening
  - ③ root of penis
  - ④ penileum

DESCENT OF OVARY: - Same attachments - only

- ① there is an intermediate attachment of the gubernaculum ovary to lateral L of uterus - so divides gubernaculum into proximal + distal part
- ② The peritoneal pouch in descent of ovary called canal of Nuck.
- ③ The distal attachment of gubernaculum to genital swelling - ~~correspond~~ develop to form labia majora.

The descent is incomplete → upto pelvis due to pull of proximal part of gubernaculum → form ligament of ovary → lat L of uterus to lower pole of testis  
Distal part form → round lig of uterus - lat L to labia majora