

development of male duct system

أولاً اصنف

Indifferent stage before week 7
different stage at week 7

ثانياً حسب

All Male duct system \Rightarrow From intermediate Mesoderm
 \hookrightarrow Mainly from Mesonephric duct MCP
ثالثاً (ازاي)

Indifferent stage

في مرحلة يتكون قبل ما يعرف
female و male



In the different Stage

Tubules

give rise to :-

- Vasa efferentia = efferent ductule
- appendix of epididymis

Duct

give rise to :-

- epididymis
- Vas deferens
- Seminal vesicle
- ejaculatory duct

المفوضات لا يتبقى
disappears except

cranial end

give rise to :-

appendix of testis

Caudal ends give

rise to :-

Prostatic uterick

Development of Male external genitalia

توجه افقی

Indifferent stage \Rightarrow up to week 7
different stage \Rightarrow complete by week 12

تانباً مسین

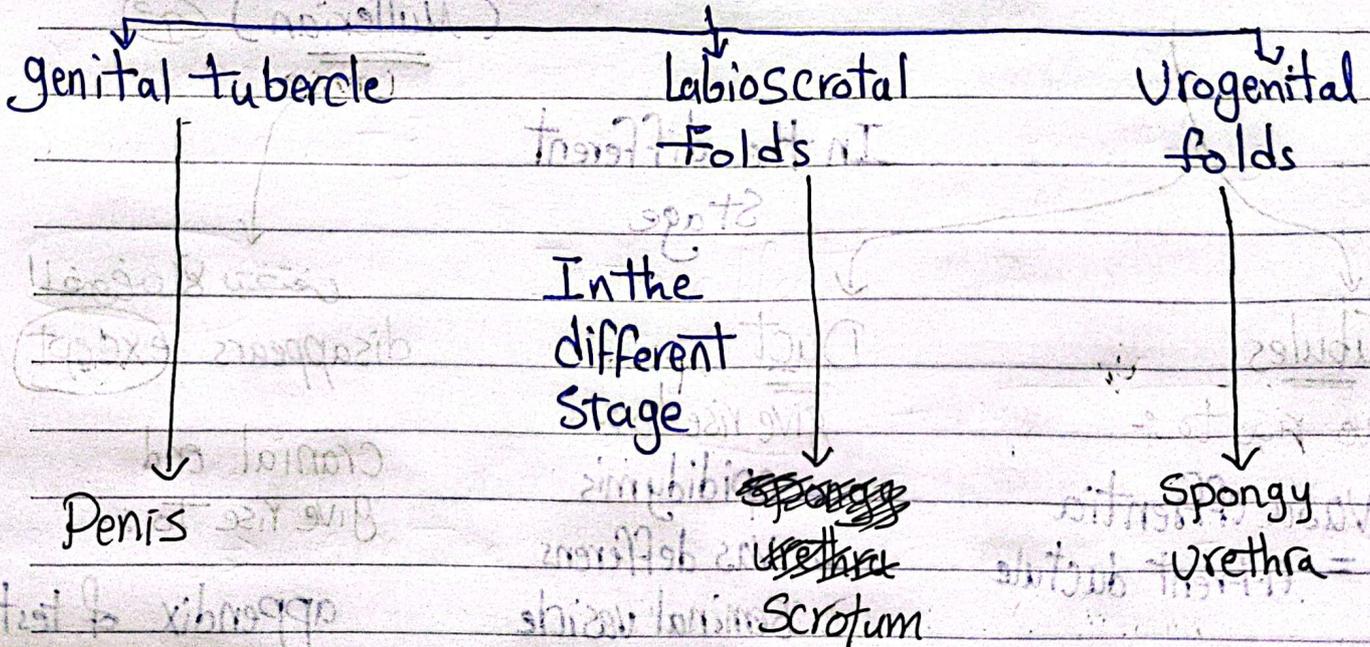
genital tubercle and labioscrotal folds

\hookrightarrow From Mesoderm MCQ

Urogenital folds \Rightarrow from ectoderm MCQ

تانباً ازای

Indifferent stage



Subject: SAQ Mention Anomalies of external genitalia

I] Hermaphrodite (Intersex)

True Hermaphrodite

- Both ovarian and testicular tissue ✓
- external genitalia predominantly female

Pseudo Hermaphrodite

Female Pseudo

Male pseudo

ovary

gonads

testis

Male

ex. genitalia

Female

Congenital adrenal hyperplasia

cause

androgen insensitivity

2] External genitalia agenesis { Absence of Penis / clitoris }
cause Failure of development of genital tubercle

3] Micro Penis { Small Penis }

Development of female duct system

توضیحات:

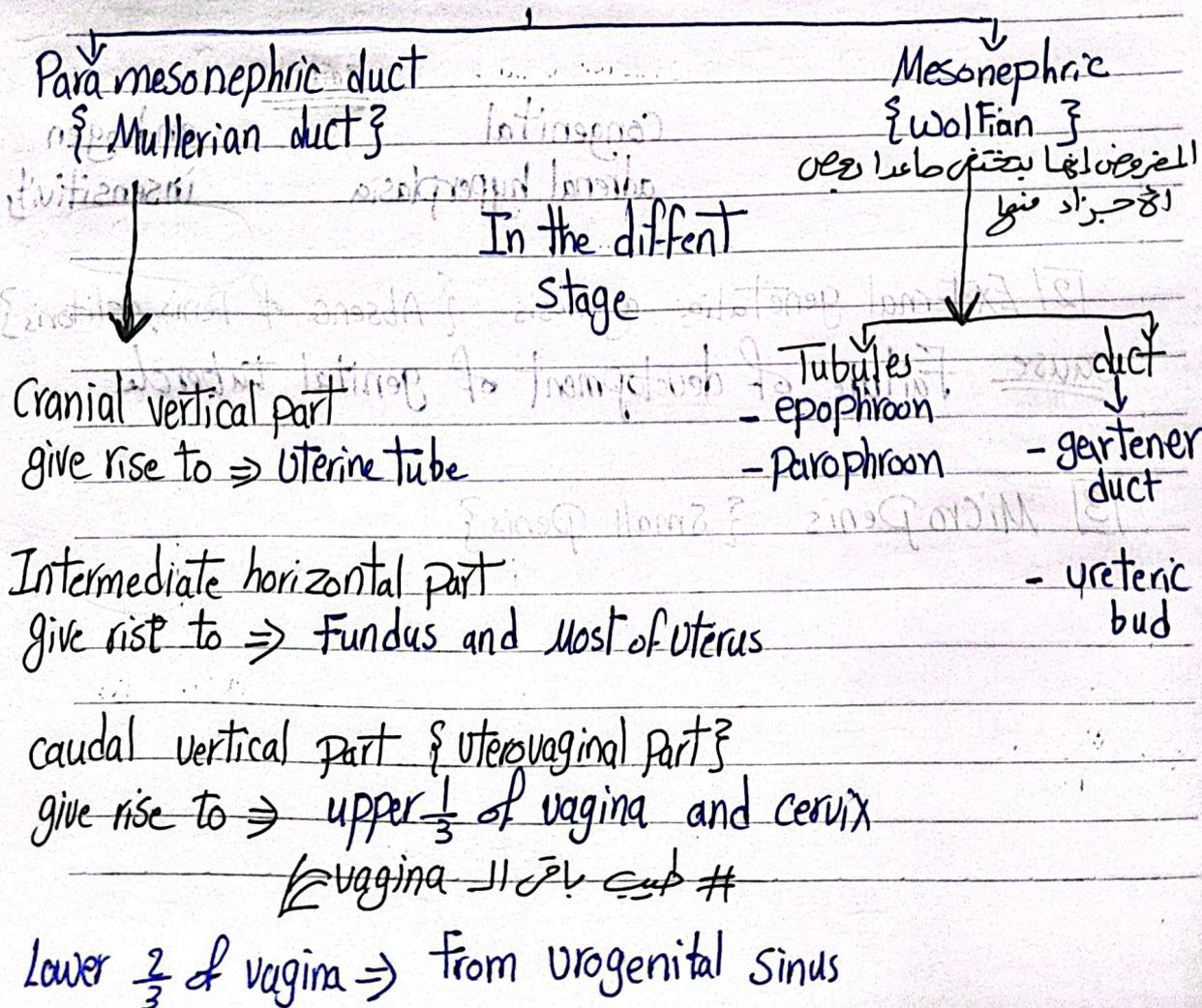
Indifferent stage \Rightarrow before week 7
different stage \Rightarrow at week 8-9

All Female duct system From Intermediate plate Mesoderm

(except) Lower $\frac{2}{3}$ of vagina \Rightarrow endoderm

تفاوت از ای

Indifferent Stage



بس في حاجة محتاجين نعرفها

vagina في الاول بيكون مقفولة كافي وبعدين
 break down of Central part ويعمل Lumen

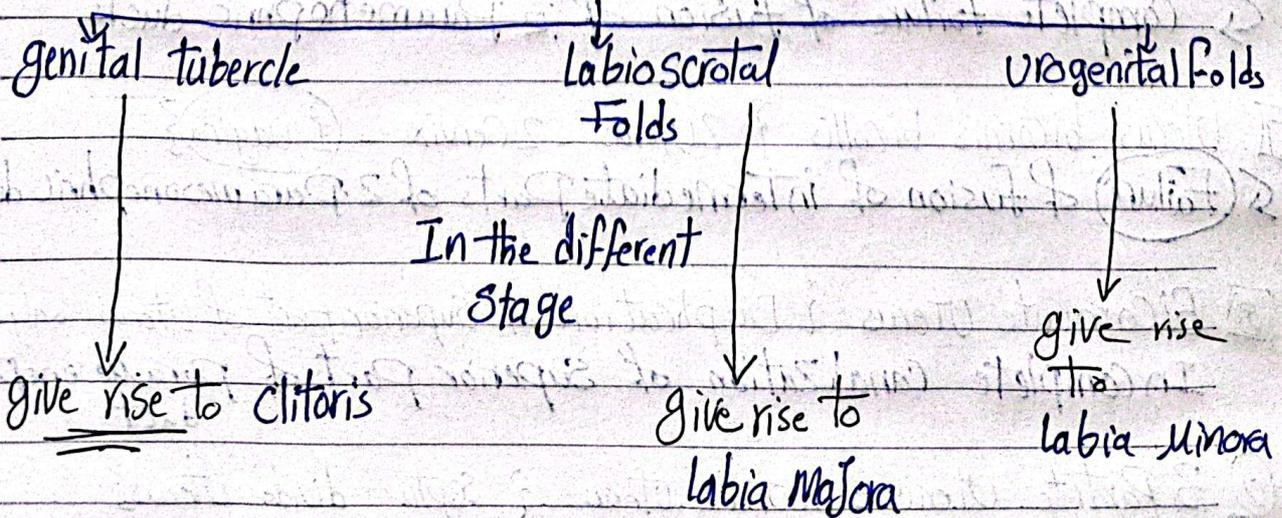
~~ويعمل~~ ويعمل Canalization of vagina ماعدا
 hymen => opened only from its Central Part

Development of Female external genitalia

Indifferent Stage => up to week 7
different stage => complete development at week 12

genital tubercle and Labioscrotal folds => Mesoderm
Urogenital Folds => Ectoderm

المرحلة الاولى Indifferent Stage



Uterus to ovary ~~vagina~~

- | | |
|--|---|
| <p>① Absence of uterus and vagina
↳ Failure of development of 2 Paramesonephric ducts</p> | <p>10] Cervical Atresia
{Septum obliterate Cervix}
Failure of Cervical canalization</p> |
| <p>② Infantile / rudimentary uterus {Small uterus}
under development of intermediate horizontal Part of Paramesonephric duct</p> | <p>11] Vaginal atresia
{Septum obliterate vagina}
Failure of canalization of vagina</p> |
| <p>③ Unicornuate uterus {one tube - one uterus horn}
Failure of development of one the Paramesonephric duct</p> | <p>12] Imperforate hymen
↳ Central Part of hymen fails to break down</p> |
| <p>④ Bicornuate with rudimentary horn {one normal horn - one rudimentary horn}
↳ Failure of develop one Paramesonephric duct to complete its development</p> | |
| <p>⑤ Arcuate uterus {depression of fundus in the middle}
↳ (Incomplete) fusion of intermediate Part of Paramesonephric ducts</p> | |
| <p>⑥ Uterus didelphys {2 uterus - (2 vagina) - 2 cervix}
↳ Complete failure of fusion of 2 Paramesonephric ducts</p> | |
| <p>⑦ Uterus bicornis bicollis {2 uterus - 2 cervix - (1 vagina)}
↳ (Failure) of fusion of intermediate Parts of 2 Paramesonephric duct</p> | |
| <p>⑧ Bicornuate uterus {Duplication of superior part of uterus only}
Incomplete canalization of superior part of Paramesonephric duct</p> | |
| <p>⑨ Bipartite uterus = septate uterus {septum divide uterus}
Incomplete canalization of intermediate Part</p> | |