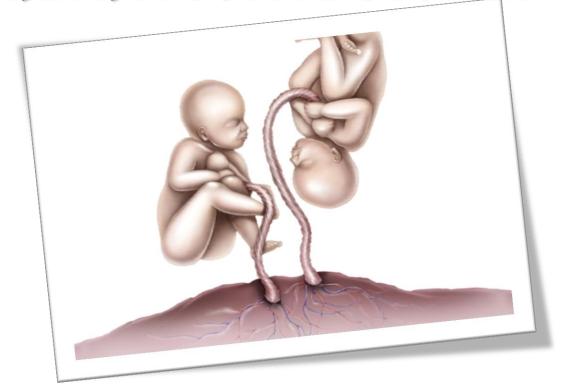




REPRODUCTIVE SYSTEM



LECTURE: FEMALE REPRODUCTIVE SYSTEM

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If there is any mistake or suggestions please feel free to contact us:

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Both - Black

Male Notes - BLUE

Female Notes - GREEN

Explanation and additional notes - ORANGE

Very Important note - Red



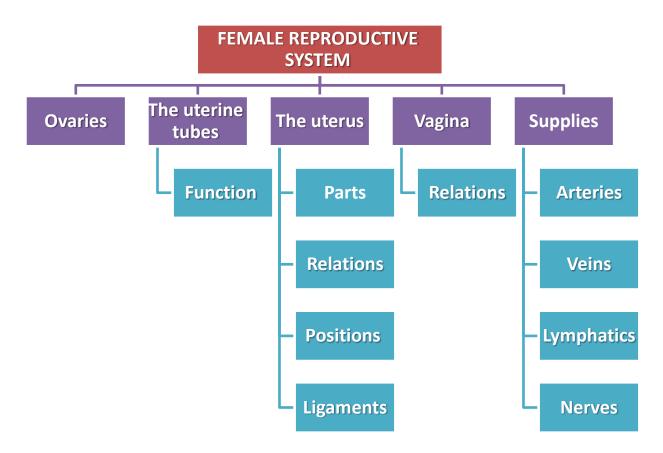


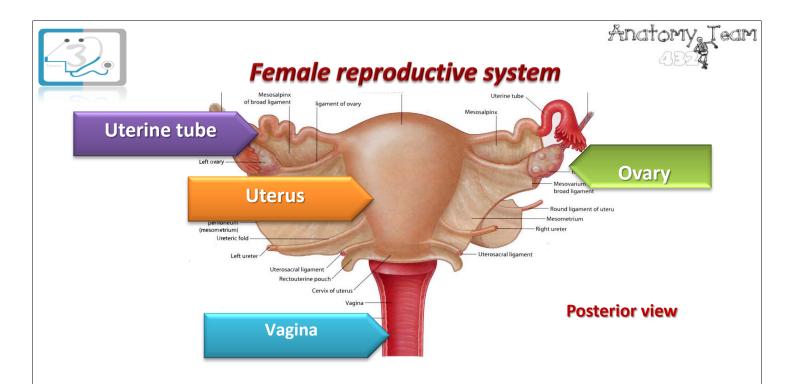
Objectives:

At the end of the lecture, students should be able to:

- **\Delta** List the organs of female reproductive system.
- **Describe** the pelvic peritoneum in female.
- Describe the position and relations of the ovaries.
- **❖** List the parts of the uterine tube.
- Describe the anatomy of uterus regarding: subdivisions, cavity, relations, ligaments & main support.
- Describe the anatomy of vagina regarding: structure, extent, length & relations.
- Describe the supply (arteries, veins, lymph, nerves) of female reproductive system.

Mind map:





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Pelvic peritoneum in female:

Rectouterine (Douglas) pouch:

Reflection of peritoneum from rectum to upper part of posterior surface of vagina.

Uterovesical (vesicouterine) pouch:

Reflection of peritoneum from uterus to upper surface of urinary bladder.

Broad ligament of uterus:

Extension of peritoneum from lateral wall of uterus to lateral wall of pelvis, encloses the uterine tubes.

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Ovaries: primary sex organs in female:

It is an almond-shaped organ.

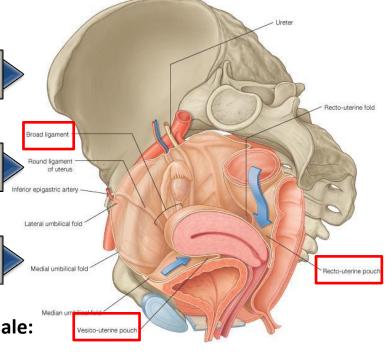
It is attached to the back of the broad ligament by a peritoneal fold (mesovarium).

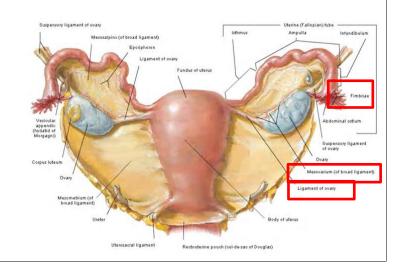
Its medial end is attached to uterus by ligament of ovary.

Its lateral end is related to the fimbriae of the uterine tube.

Function:

- 1) Production of female germ cells
- 2) Secretion of female sex hormones









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The uterine (fallopian) tubes:

Intramural part:

• opening into the uterine wall.

Isthmus:

• narrowest part.

- It is 10 cm long.
- It is enclosed in the broad ligament of uterus.

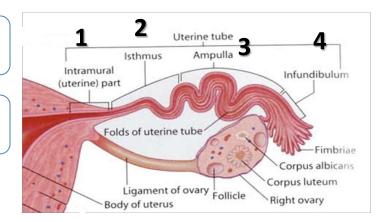
Functions:

Site of fertilization.

Ampulla:

widest part (site of fertilization).

Infundibul um: funnel-shaped end, has fingerlike processes (fimbriae), related to ovary.

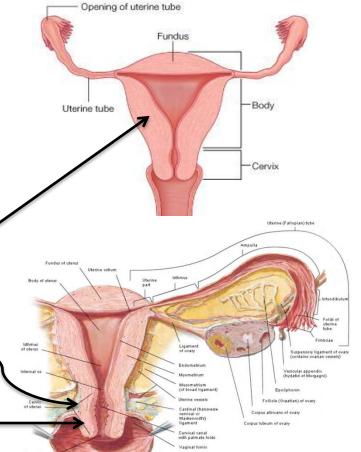


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the uterus:

Fundus: No cavity. The part of uterus above the level of uterine tubes. Body: Cavity is triangular. The part of uterus from the level of uterine tube to the level of the isthmus of uterus. Cervix: cavity is fusiform, divided into: *Supravaginal part. *Vaginal part. The part of the uterus below the level of the isthmus of the

A hollow, pear-shaped muscular organ.





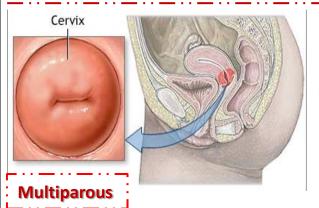
uterus.

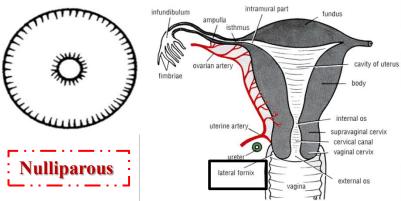




The cervical canal:

- INTERNAL OS: opening between cavity of body of uterus & cavity of cervix (cervical canal)
- EXTERNAL OS: opening between cervical canal & cavity of vagina
 - In a nulliparous woman: external os appears circular.
 - In a multiparous woman: external os appears as a transverse slit with an anterior & a posterior





Relations of uterus

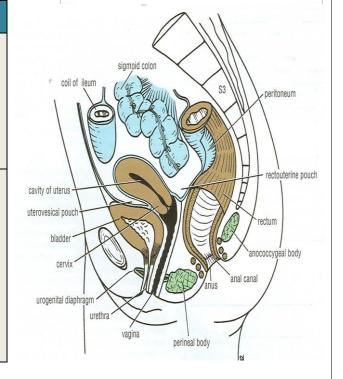
Fundus + body + supravaginal part of cervix:

- Anterior: superior surface of urinary bladder
- 2. Posterior: sigmoid colon
- 3. Lateral: uterine artery

VAGINAL PART OF CERVIX:

Ssurrounded by vaginal fornices.

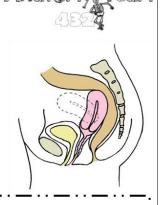
- 1. Anterior: anterior fornix of vagina
- 2. Posterior: posterior fornix of vagina
- 3. Lateral: lateral fornices of vagina







Positions of uterus



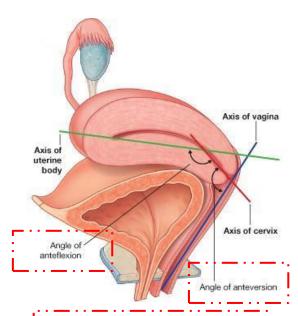
Anteverted uterus

Long axis of whole uterus is bent forward on long axis of vagina.



Anteflexed uterus

Long axis of body of uterus is bent forward on long axis of cervix.



Usual position of uterus

Anteverted anteflexed uterus

Retroverted uterus

Fundus & body of uterus are bent backward on the vagina and lie in rectouterine pouch



Retroflexed uterus

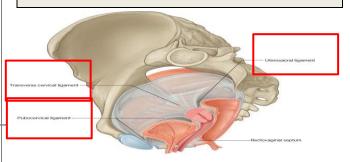
Long axis of body of uterus is bent backward on long axis of cervix

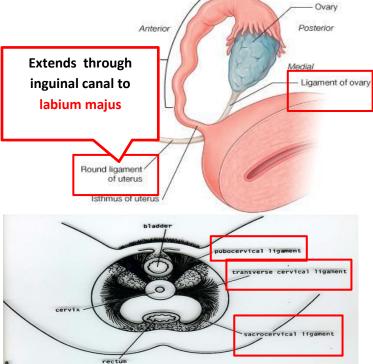
Ligaments of uterus

1)Ligaments at junction between fundus & body of uterus

(At the level of uterine tube)

- 2)Ligaments of cervix: Extend from cervix to:
 - anterior (pubocervical),
 - lateral (transverse cervical or cardinal)
 - posterior (uterosacral or sacrocervical)
 - pelvic walls

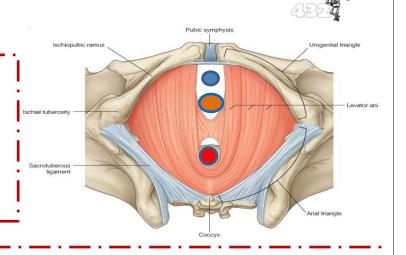






Levator ani muscles:

- FORM THE PELVIC FLOOR: separate pelvis from perineum.
- FORM PELVIC DIAPHRAGM: traversed by urethra, vagina & rectum.
- SUPPORT PELVIC ORGANS.

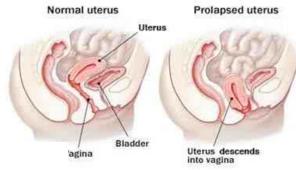


Support of uterus:

- Ligaments of cervix (especially transverse cervical)
- Round ligament of uterus (maintains anteverted anteflexed position)
- Levator ani muscles

Uterine prolapse:

- Downward dispalcement of uterus due to damage of:
 - 1. Ligaments of uterus
 - 2. Levator ani muscles



Structure:

Fibro-muscular tube.

Extent: From external os, along pelvis & perineum, to open in the vulva (female external genitalia), behind urethral opening



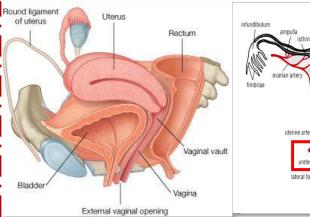
Length: Its anterior wall (7.5 cm) is shorter than its posterior wall (9 cm)

Function:

- 1) Copulatory organ &
- 2) Birth canal

Relations of vagina:

- Anterior: Urinary bladder (in pelvis) & urethra (in perineum)
- Posterior: Rectum (in pelvis) & anal canal (in perineum)
- Lateral: ureters (in pelvis)

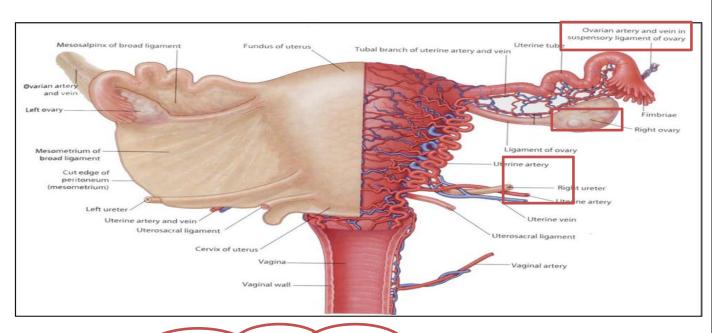








ORGAN	ARTERIES	VEINS	LYMPHATICS	NERVES (AUTONOMIC)
OVARIES	OVARIAN (ABDOMINAL AORTA)	OVARIAN (TO INFERIOR VENA CAVA & LEFT RENAL VEIN)	TO PARAAORTIC LYMPH NODES (IN ABDOMEN)	OVARIAN PLEXUS (IN ABDOMEN)
UTERINE TUBES	OVARIANUTERINE	OVARIANUTERINE	PARAAORTICINTERNAL ILIAC	OVARIANINFERIORHYPOGASTRIC
UTERUS	UTERINE (INTERNAL ILIAC ARTERY IN PELVIS)	UTERINE PLEXUS (TO INTERNAL ILIAC VEIN)	TO INTERNAL ILIAC LYMPH NODES (IN PELVIS)	INFERIOR HYPOGASTRIC PLEXUS (IN PELVIS)
VAGINA	VAGINAL (INTERNAL ILIAC ARTERY IN PELVIS)	VAGINAL PLEXUS (TO INTERNAL ILIAC VEIN	TO INTERNAL ILIAC LYMPH NODES (IN PELVIS)	INFERIOR HYPOGASTRIC PLEXUS (IN PELVIS)



http://www.youtube.com/watch?v =5-bz97yXH-Q&list=PLyB86UGwPphwq7G2g0Rl 9LWIpOE6UAzRH









QUESTIONS:



1-Which one of the following structures is related (or attached) to the lateral end of the ovary:

- A. Fimbriae of uterine tube
- B. Ampulla of uterine tube
- C. Ligament of ovary
- D. Round ligament of uterus

2-Which one of the following structures is anterior to the uterus:

- A. Urinary bladder
- B. Ureter
- C. Sigmoid colon
- D. Ovary

3- which one of the following is the shape of ovary:

- A. Triangular shape
- B. Almond shape
- C. Funnel shape
- D. Non

4- the medial end of ovary attached to uterus by :

- A. Ampulla of uterine tube
- B. Mesovarium ligament
- C. Ligament of ovary

5- which one of the following the long of fallopian tube:

- A. 11 cm long
- B. 10 cm long
- C. 10.5 cm long





6- which one of the following is the site of fertilization:

- A. Isthmus
- B. Infundibulum
- C. Ampulla

7- Secretion of the female sex hormone, function of:

- A. Uterine tube.
- B. Ovarian
- C. Uterus

8- which one of the following is the posterior relation of body of ureters:

- A. Urinary bladder
- B. Sigmoid colon
- C. Fornix of vagina

9- which one of the following is the anterior ligament of cervix:

- A. Cardinal ligament
- B. Pubocervical ligament
- C. Vaginal ligament

10- which one of the following is posterior relation of vagina:

- A. Rectum
- B. Anal canal
- C. Both





Q	Answer
1	Α
2	Α
3	В
4	С
5	В
6	С
7	В
8	В
9	В
10	С

GOOD LUCK

Anatomy Team Leaders:

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