OVARIES

Female gonads

• Situation:

- Lies in the ovarian fossa on the lateral pelvic wall
- Ovarian fossa bounded
 - 1. Anteriorly obliterated umbilical artery
 - 2. Posteriorly ureter & internal iliac artery

Position:

- Variable
- Nulliparous women -
 - Long axis is nearly vertical
 - described as upper and lower pole
- Multiparous women -
 - Long axis becomes horizontal
 - upper pole points laterally and lower pole medially pole

• External features:

- 1. Young girls, before the onset of ovulation, Smooth surface which are greyish pink in colour
- 2.After puberty, surface become uneven colour changes form pink to Gray
 - two pole 1.upper or tubal pole2.lower or uterine pole
 - two border 1.anterior or mesovarian2.posterior or free
 - •two surfaces 1.lateral
 - 2.medial

• Relation:

1.peritoneal relations,

- entirely covered with peritoneum
- ovary is connected to the posterior layer of the Broad ligament by a short fold of peritoneum,

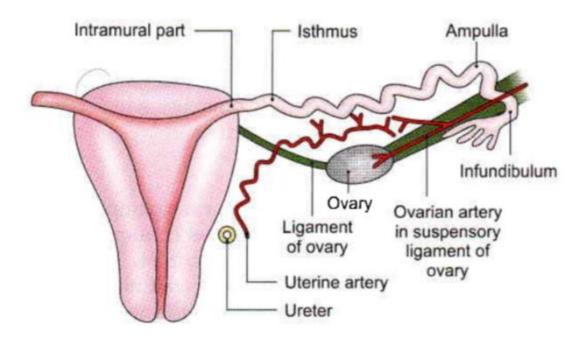
Called mesovarium

2.visceral relations,

- upper pole: uterine tube & external iliac vein
- •lower pole: ligament of the ovary, to lateral

Angle of uterus

- -posteroinferior attachment of the uterine tube
- -ligament lies between two layers
 Of broad ligament of uterus &
 Smooth muscle fibres
- anterior border: uterine tube, obliterated umbilical artery
- posterior border: convex
 - -uterine tube and ureter
- •lateral surface: ovarian fossa which lined by parietal peritoneum
- medial surface: uterine tube
 peritoneal recess between the
 mesosalpix and this surface
 known as ovarian bursa



- *Lower pole & lateral surface <u>not</u> related to uterine tube
- *Two borders , upper pole & medial urface

 Are related to uterine tube

• Arterial supply:

- 1. Ovarian artery
- 2. Uterine artery

Venous drainage:

- -Hilus and form a pampiniform plexus around the artery
- -the vein ascends on the posterior abdominal wall and drains in the IVC on right side and left renal vein on left side

• Lymphatic drainage:

- Lateral aortic node
- Preaortic node

Nerve supply:

- Sympathetic T10,T11 -vasomotor
- Parasympathetic S2,S3,S4

-vasodilator

• Functions:

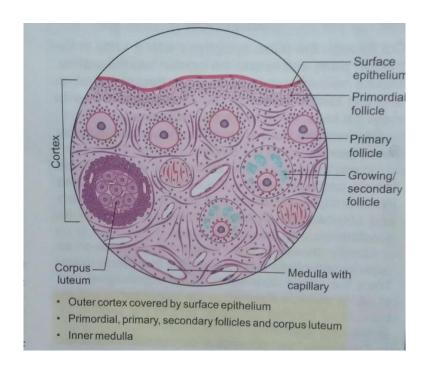
- 1. Production of oocyte:
 - -during reproductive life of about 30 year ovaries produce alternately one secondary

oocyte per month

- -liberation of oocyte from the ovary is called ovulation. It occurs on or about the 14th day of the 28 day menstrual cycle.
- 2. Production of hormones:
 - -oestrogen
 - -progesterone

Histology:

- 1. Primary follicle
- 2. Growing / secondary follicle



• Clinical anatomy:

- 1. Determination of ovulation
- 2. Prolapse of ovaries
- 3. Ovarian cyst
- 4. Carcinoma of ovary
- 5. Chocolate custa