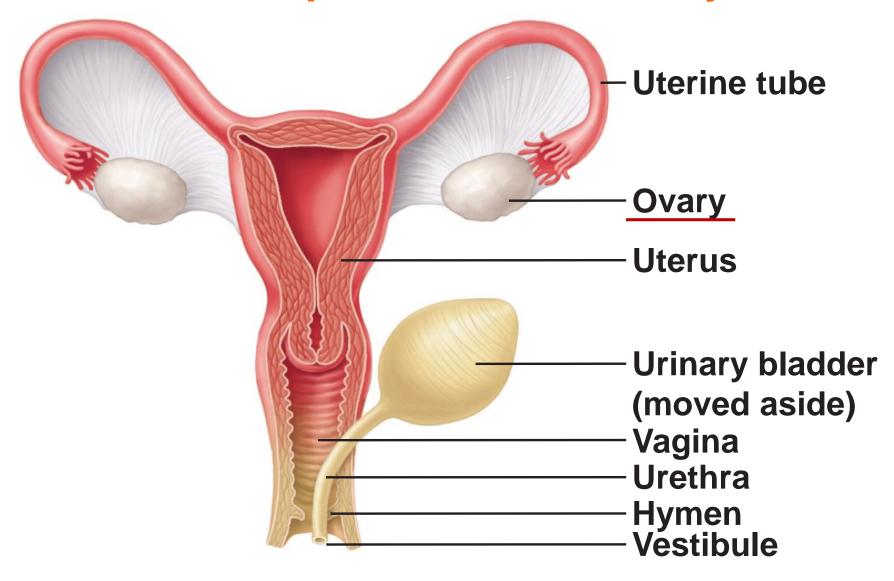
Female Reproductive Anatomy



Female Reproductive Anatomy

- Ovaries: female gonads
 - Produce female gametes (ova)
 - Secrete female sex hormones, estrogen (estradiol, estrone, estriol), and progesterone
- Internal genitalia: located in pelvic cavity; include ovaries and duct system (uterine tubes, uterine horns/uterus, and vagina)

• External genitalia: external sex organs

Reproductive Functions

- Production of female gametes
- Gametes transporting
- Fecundation site
- Conceptus side to nourish the fetus until parturition
- Control the reproductive cycle
- Coordinate the ovarian and uterine cycles

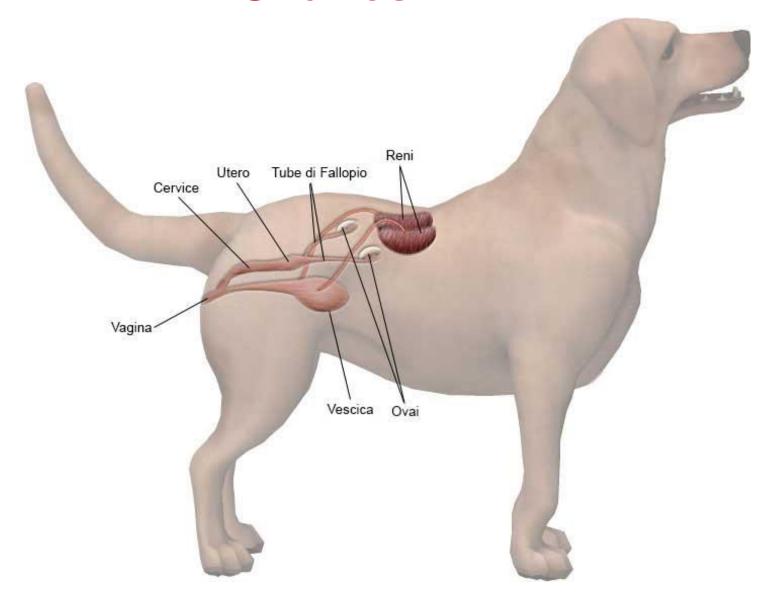
The Ovary: female gonad

Functions

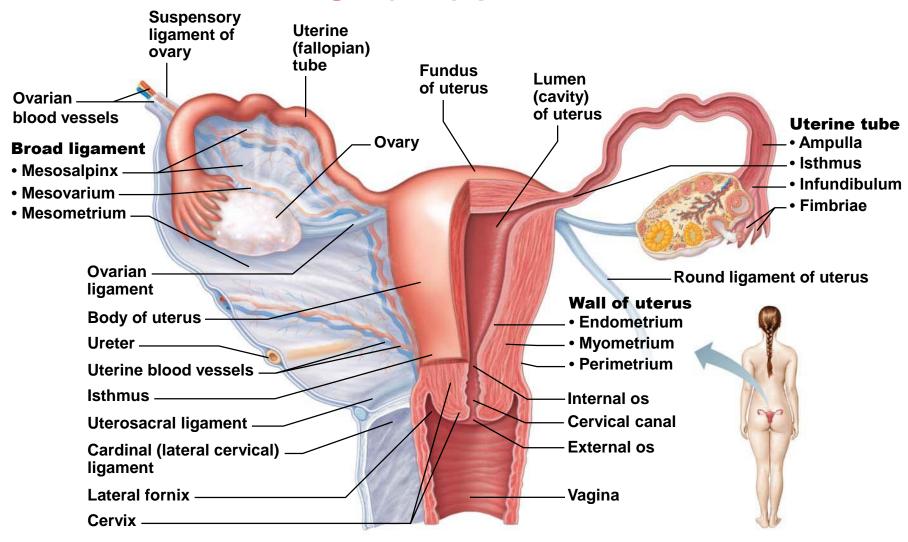
- an exocrine gland, producing oocytes (gametogena function)
- an endocrine gland, secreting the female hormones: estrogen and progesterone (endocrine function)

In domestic animals: paired organ sub-lumbar area caudal to the kidneys

Ovaries

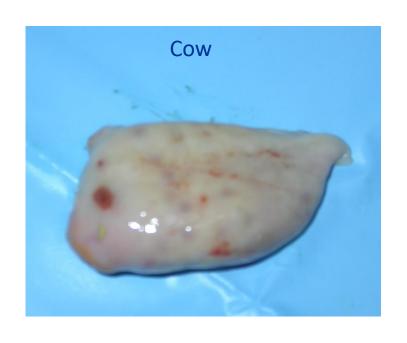


Ovaries



(a) Posterior view

Ovaries

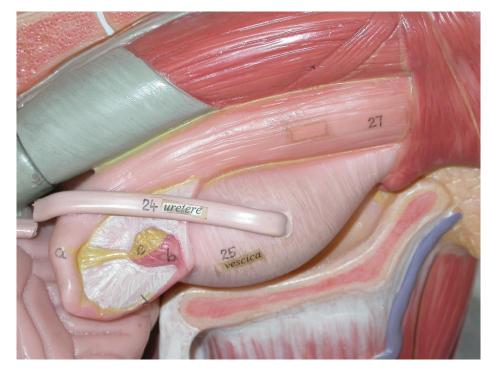






Lateral surface

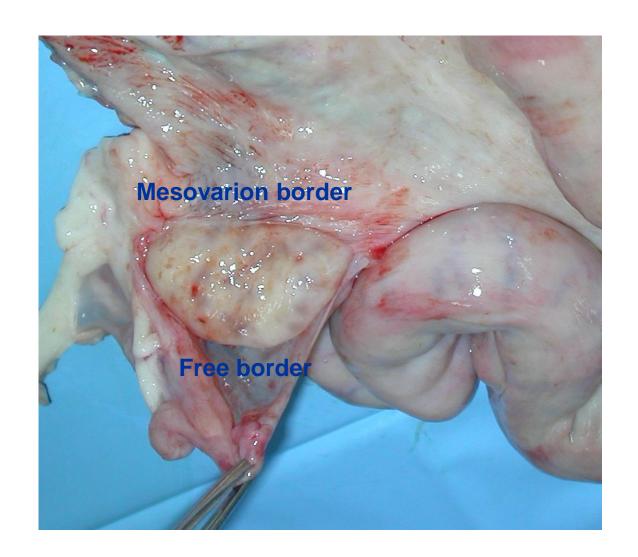
in contact with the parietal peritoneum

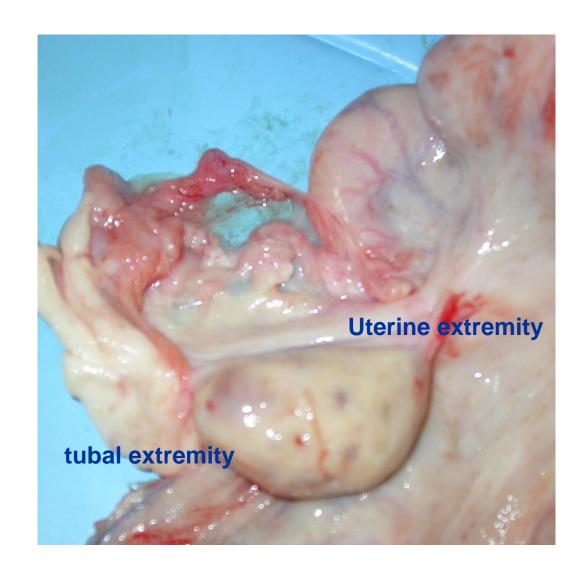




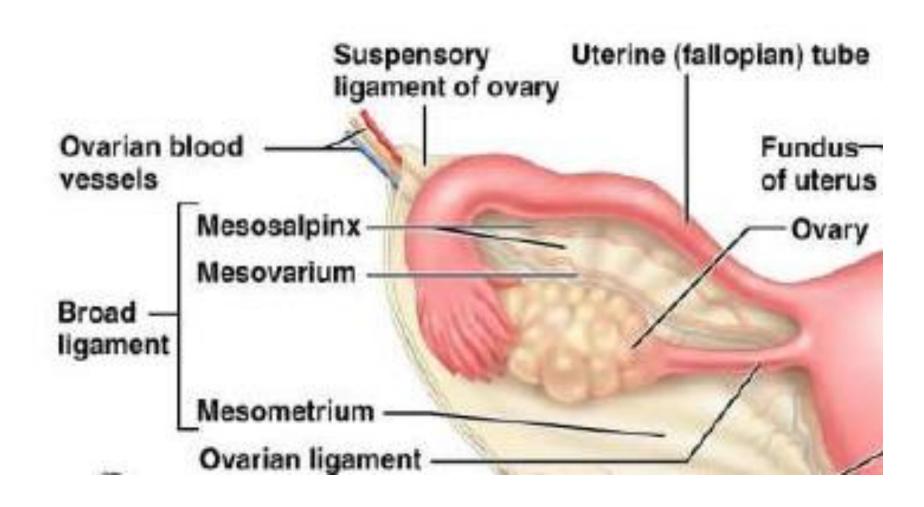
Medial surface

to a large extent covered by the fimbriated extremity of the uterine tube

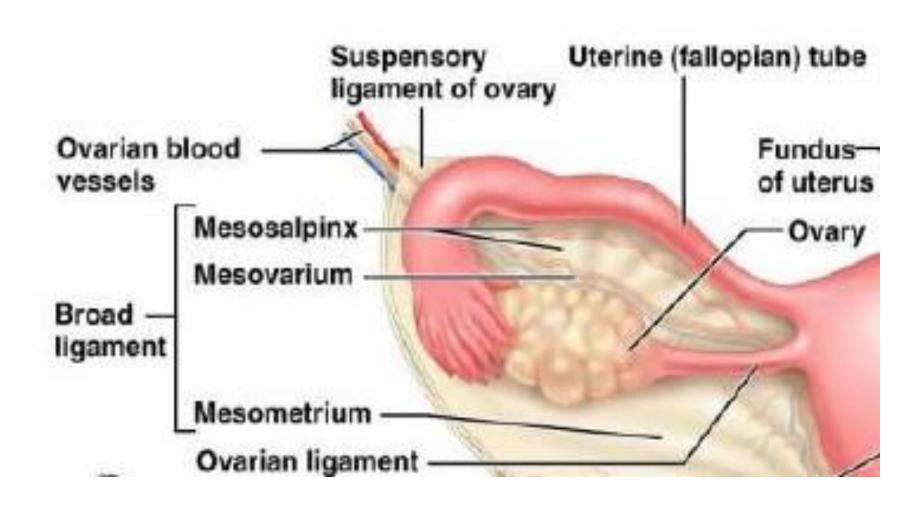




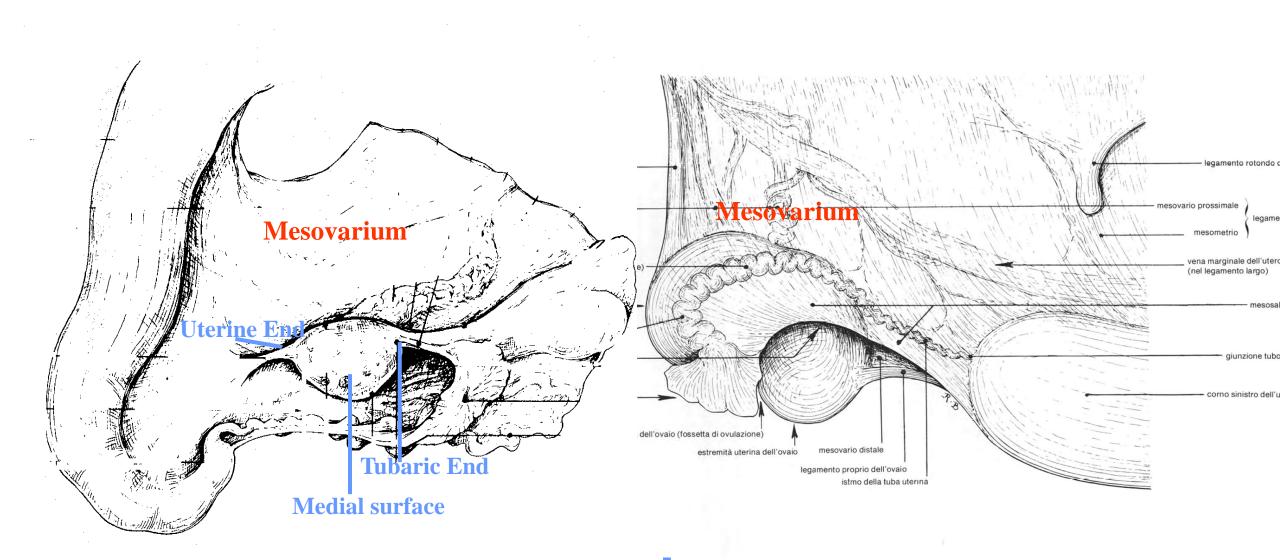
Ovaries: ligaments



Ovaries: Mesovarium

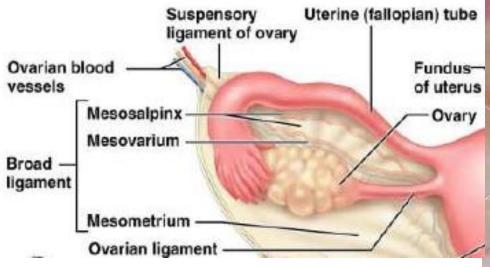


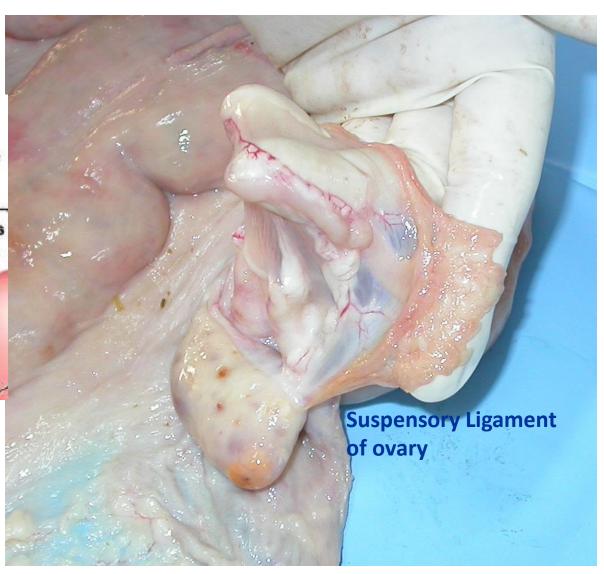
Ovaries: Mesovarium



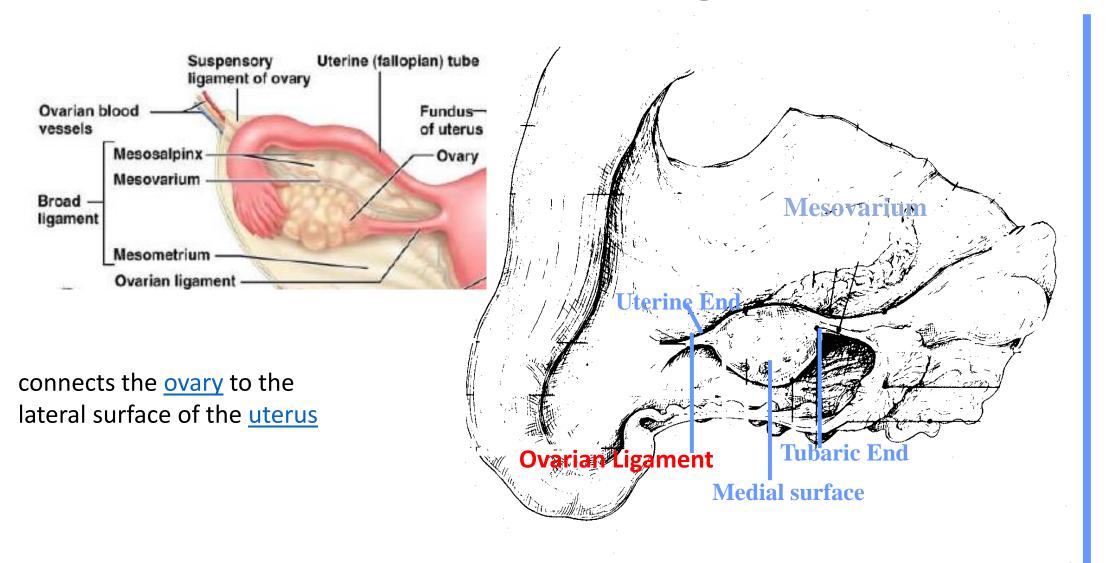
Ovaries: Suspensory Ligament

from the <u>ovary</u> to the wall of the pelvis

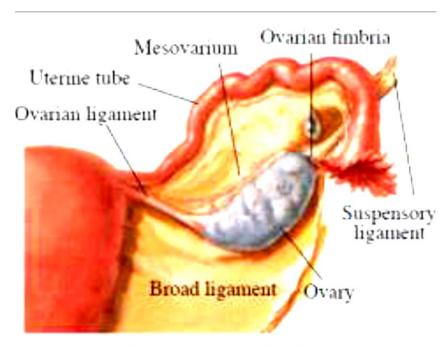




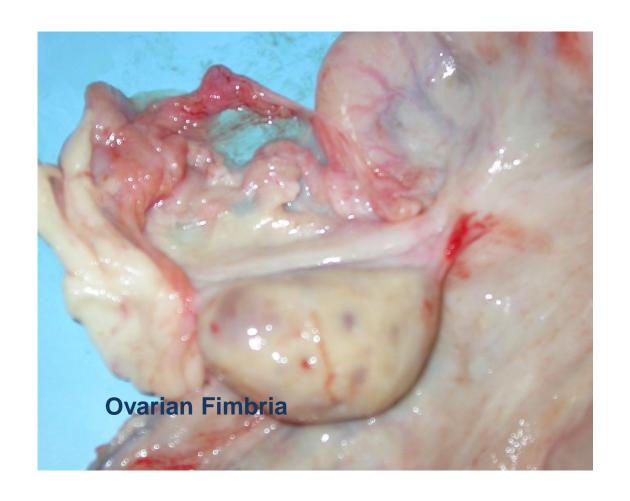
Ovaries: Ovarian Ligament



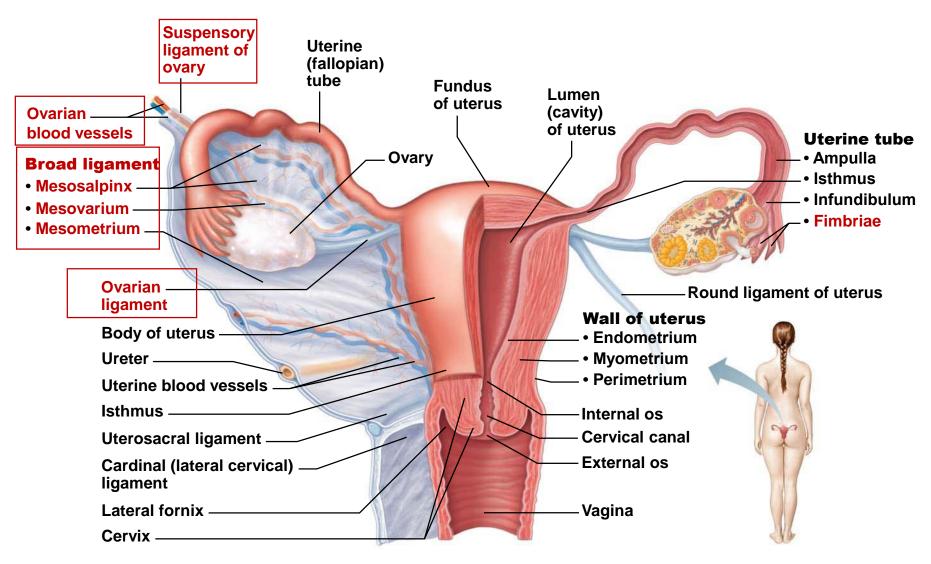
Ovaries: Ovarian Fimbria



Ovary - posterior view

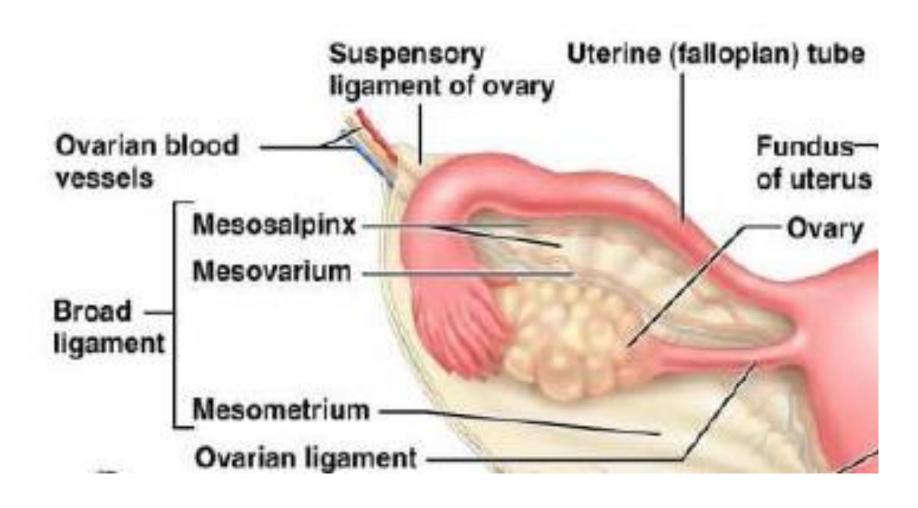


Summary: ligaments

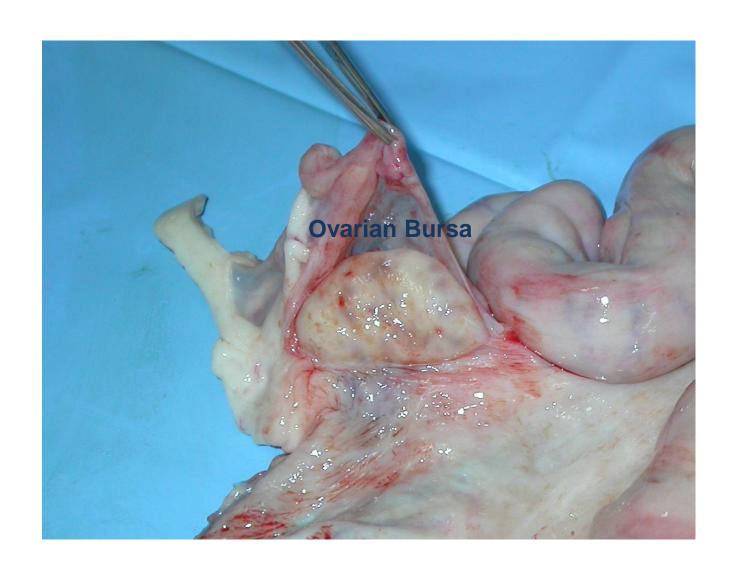


(a) Posterior view

Ovaries: Mesosalpinx



Ovaries: Ovarian Bursa



Blood supply for ovaries

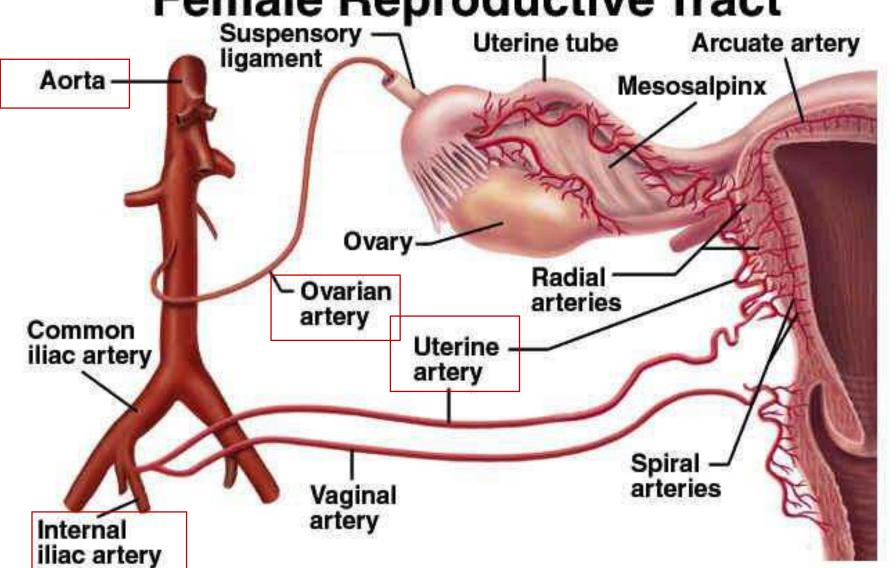
Arterial Supply

- •The **ovarian artery** (a branch of the Aorta) and ovarian branches of the uterine artery form anastomoses in the mesovarium and the <u>broad ligament</u>.
- •From this arterial plexus ~10 coiled arteries enter the hilus of the ovary.
- •Smaller branches radiate into the cortex.
- •Here they branch and anastomose to give rise to a rich capillary network around follicles.

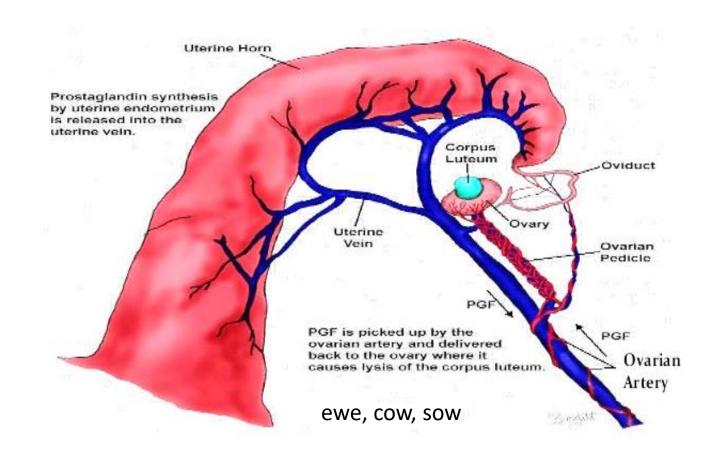
Venous Drainage

- •Venous drainage follows the course of the arterial system.
- Medullary veins are large and tortuous.
- •The Ovarian Artery is closely associated with the Uterine Vein. This is important for the transfer of luteolytic PGF2α from the <u>Uterus</u> to the Ovary.

Blood Supply to Female Reproductive Tract



Counter-current transfer system



- •The Ovarian Artery is closely associated with the Uterine Vein.
- •This is important for the transfer of luteolytic PGF2α from the <u>Uterus</u> to the Ovary.