Female Reproductive System Histology

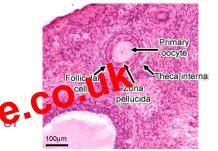
OVARIES

- oogenesis is stimulated by gonadotrophin from anterior pituitary gland
- release oestrogen and progesterone
- covered by tunica albuginea = thick connective tissue
- tunica albuginea is covered by simple squamous mesothelium = germinal epithelium
- coiled arteries = helicrine arteries
- oocytes are surrounded by epithelial cells and clumped together, form follicles

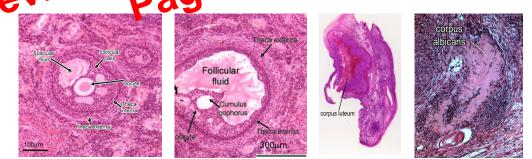
OOCYTES



 primordial follicles are present at birth, surrounded by single layer of ovarian follicular epithelial cells/ granulosa cells, found rounder an cortex



 primary follicles are structured by two layers of granulosa cells which continue to hypertrophy and make more cells, zona pelluicda forms = glycum cin layer between cyte and zona pellucida





- secondary follicles have more layers of granulosa cells = cumulus oophorus and pockets of follicular fluid which will join together to form an antrum, theca splits into 2 layers interna = round cells which secrete fluid + externa = spindle shaped cells
- graffian/ tertiary follicles = main cytoplasm + polar body, follicular fluid forms one antrum surrounded by follicular cells = membrane granulosa