Structure of the female reproductive organ: Within the true pelvic cavity Uterus: superior to inferior structure Fundus Fallopian tube lateral to the fundus, connect to infundibulum then fimbriae Cervix, contains an internal os(ostium) and external os(ostium), nulliparous(no children), after childbirth stretched os never return to original shape Ovaries descend from the abdominal region, bring along its blood supply: Ovarian artery from the aorta (gonadal artery), venous blood drains into the gonadal vein. Cervix protrude down into the vagina create the fornix, protrusion create anterior and posterior fornix. Uterus - Cervix angle is the anteflexion, acute Uterus - Vagina angle is the anteversion, obtuse Parietal peritoneum covers front and back of the uterus, create two pouches Anterior to the uterus: Uterovesicular pouch Posterior to the uterus: recto-uterine pouch Uterus fundus + 2*fallopian tubes creates structure on which the peritoneum hanging creates broad ligament, blood vessels supplying the uterus and vagina support the vessels Blood and nerve supply Internal iliac artery branch into uterine artery, vaginal artery and pudendal artery Uterine and vaginal arteries supply uterus and upper part of the vagina pudendal artery go through greater sciatic foramen, back into pelvic cavity via lesser sciatic foramen, supply external genital structures Rich anastomosis between arteries. Blood drains into the uterine and vaginal venous plexuses Nerve supply: autonomic supply the smooth muscle down to cervix, vagina and perineum supplied by somatic nerves. Sympathetic supply from T10-L1 thoracic and lumbar splanchnic nerves (fundus, body) Parasympathetic supply from S2,3 pelvic splanchnic nerves (Cervix) Somatic pudendal nerve supply from S2-4 (Vagina, external genitalia) ► Period cramp is the referred pain from uterine fundus and body, on the T10~12 dermatome. **Developments:** Mullerian ducts fuse to form the fallopian tube, the uterus, and upper part of the vagina, lower part formed by the urogenital sinus Failure of merging leads to double uterus, septated vagina etc. Descending ovary Gubernaculum leads gonad downwards, ovary is caught by the fallopian tube, gubenaculum becomes round ligament Part of round ligament connects the ovary to the wall of the uterus Another part of the round ligament extend from the uterus through broad ligament, through inguinal canal, connect to labia majora

Ligaments supporting the cervix
Pubocervical ligament: U-shaped originate from pubis around the cervix
Uterosacral ligament: U-shaped originate from sacrum around the cervix
○ Transverse ligament
Perineum:
Innervated by the pudendal nerve (S2-4)
Posterior to anterior order:
Ano-coccygeal body
Anal opening
Perineal body: fibrous structure that support muscles such as bulbospongiosus and ischiocavernosus, two muscles
contract to trap blood erectile tissues
• Erectile tissues: vestibular body (corpus spongiosum) and crux of clitoris (Corpus cavernosum) for female erection.
Vaginal opening, labia minora, labia majora
Development of perineum:
• Genital swelling occur posterior to genital tubercle, lateral to the cloacal membrane (future urogenital opening and anal
opening)
• Breakdown of cloacal membrane, urogenital fold lateral to the urogenital opening, genital fold lateral to urogenital fold
Urogenital fold becomes urethral fold in males, closes to form urethra, form labia minora of female
Genital fold becomes labioscrotal fold, labia majora in female, scrotum in males.