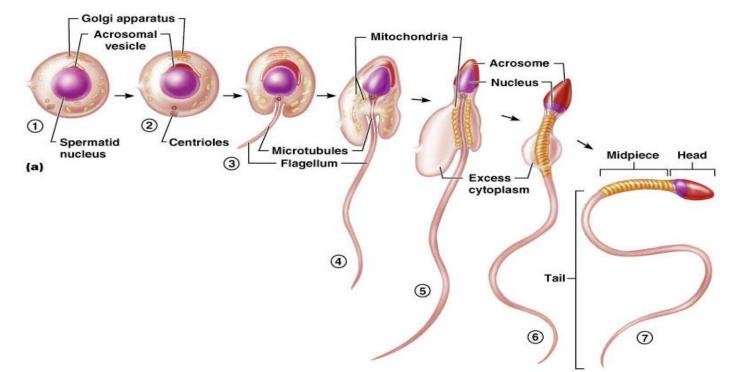
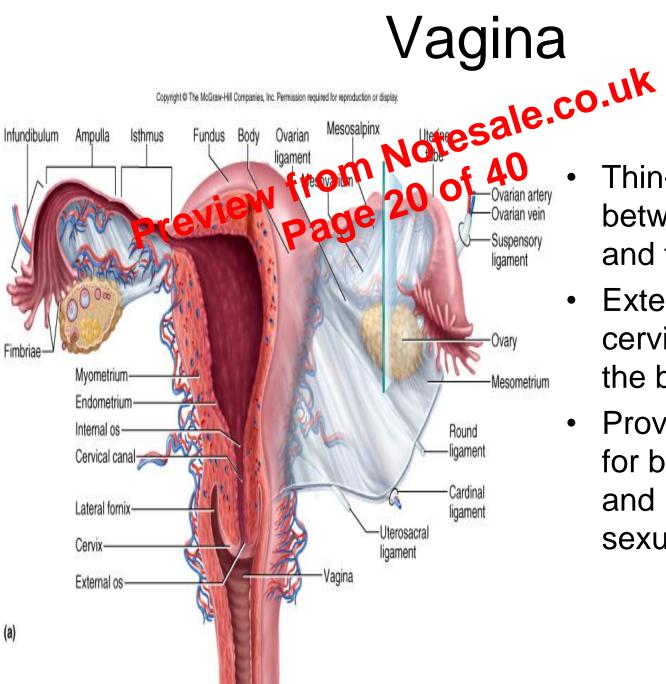
Spermatids to Sperm

- Sperm have three major regions
- Je co.uk Head – contains DNA and bas a helmet like acrosome containing hydrolytic enzymearthat allow the sperm to penetrate and enter the egg en 900
 - Ridpiece contains mitochondria spiraled around the tail filaments
 - Tail a typical flagellum produced by a centriole



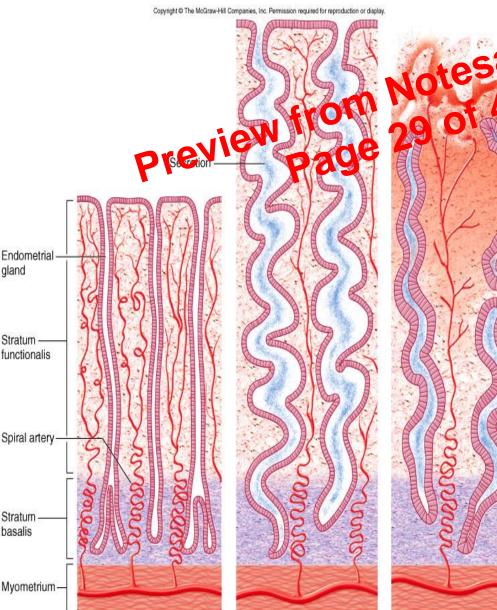
Ductus Deferens and Seminal Vesicles Ductus Deferens : runs from the epididymis to its an

- Ductus Deferens : runsolom the epididymis to its an enlarged section (ampulla) where it merges with the seminal wesicle are
- Sperm and seminal fluid mix in the ejaculatory duct and enter the prostatic urethra during ejaculation
- Vasectomy cutting and ligating the ductus deferens, which is a nearly 100% effective form of birth control
- Seminal vesicle lies on the posterior wall of the bladder. They functions to:
 - and secrete 60% of the volume of semen
 - Semen viscous alkaline fluid containing:
 - fructose: fuel for the road trip
 - prostaglandins which stimulate reverse peristalsis in the uterus
 - ascorbic acid



- Thin-walled tube lying between the bladder and the rectum.
- Extending from the cervix to the exterior of the body.
- Provides a passageway for birth, menstrual flow, and is the organ for sexual intercourse.

Endometrium



that change in length as the endometrial thickness changes

- Uterine glands supply fertilized egg with nourishment
 - glycogen-rich uterine fluid.
- Will increase in size during the first half of the menstrual cycle.
- Reduction in estrogen levels cause the endometrium to shed

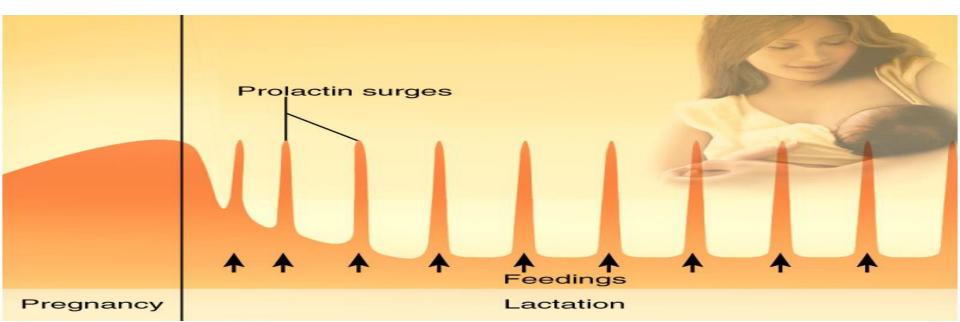
(a) Proliferative phase

(b) Secretory phase

(c) Menstrual phase

Lactation

- During pregnancy estrogen and progesterone high levels stimulate the hypothation is to secrete prolactinreleasing hormone (PRHownich targets the anterior pitural). This peoples in the secretion of prolactin
 - Prolactin stimulates the production of milk in the breasts



Chromosomes and Heredity
 Heredity = transmission of genetic characteristics from parent to offspring

- partotype a fart of chromosomes at metaphase

- The body cells have 23 pairs homologous for a total of 46 chromosomes 2n (diploid number of chromosomes) 22 of the 23 pairs guide genetic expression of most other traits. (autosomes)
- Sex cells (gametes) from the ova and the sperm each has 1 chromosome that determine the sex
- Sperm and egg contain only 23 chromosomes n (haploid)
 - fertilized egg has diploid number of chromosomes