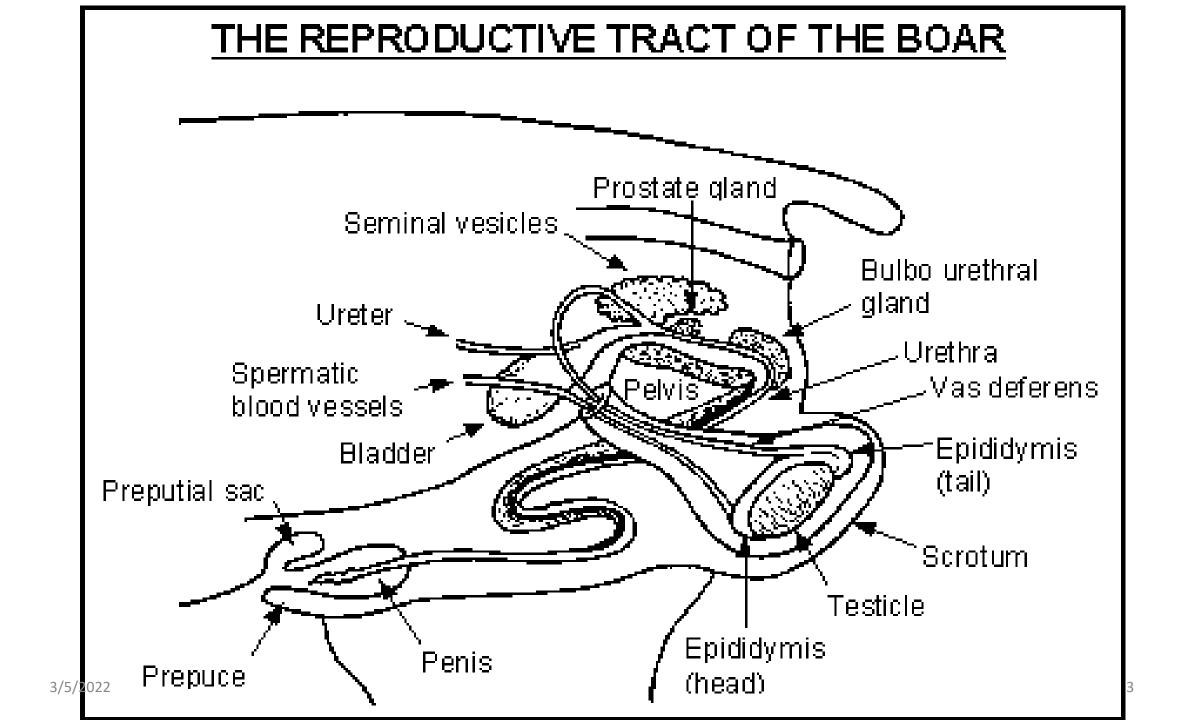
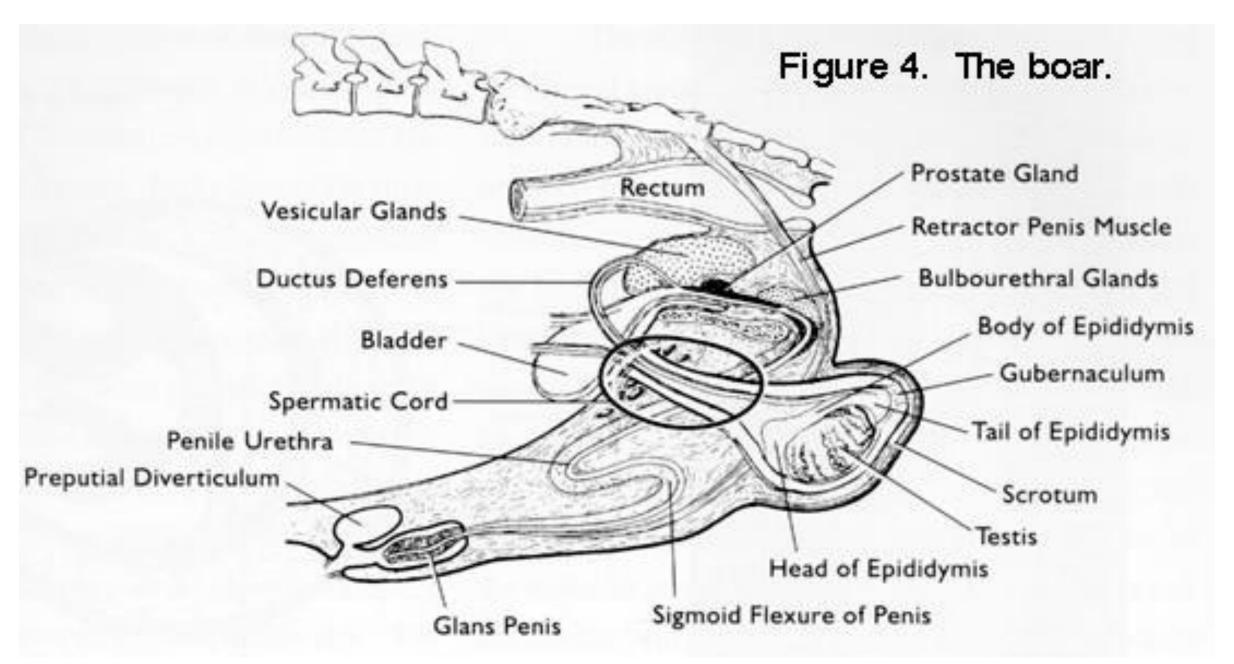
Practical: Anatomy of Swine Reproductive System



Male Reproductive System





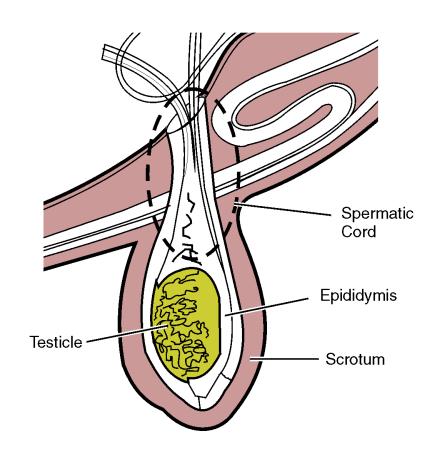


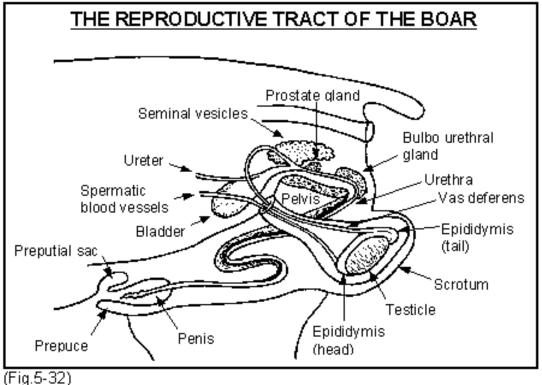
Functions of Organs

• *Testes* – paired, ovoid shaped organs that produce sperm cells and testosterone.

The male pig's testes are unusual in that they are anatomically upside down, which means that sperm is stored near the top of the testicle.

Unlike most other species, the boar testes are anatomically upside down. This means the sperm that are produced leave the testes from the bottom, move up, and are stored near the top of the testicle.





 Scrotum – sac outside and attached to the body that protects and supports the testes.

 Spermatic cord - a protective fibrous sheath consisting of smooth muscle, blood vessels, and nerves.

- Epididymis a coiled tube connected to each testis that is responsible for the maturation, storage of sperm cells. (189 ft in length)
- Deferent Duct (Vas Deferens) part of the spermatic cord that is the passageway for sperm from the epididymis to the pelvic urethra.

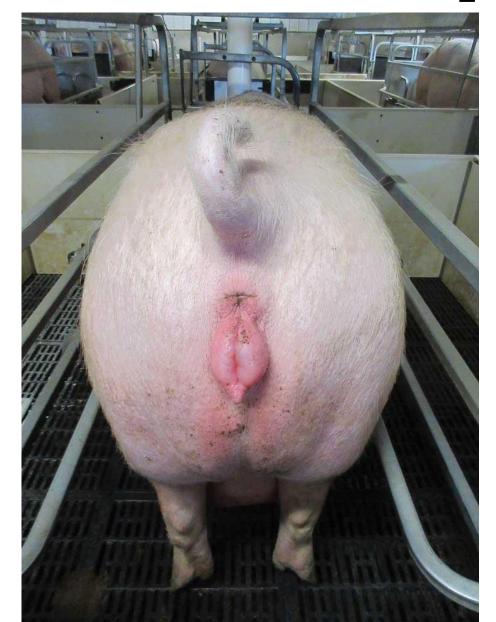
The vas deferens is the tube that is cut and sutured in order to create a sterile, vasectomized boar (V-boars). These V-boars have been used effectively for estrous detection and are normal in every way except they do not have sperm in the ejaculate.

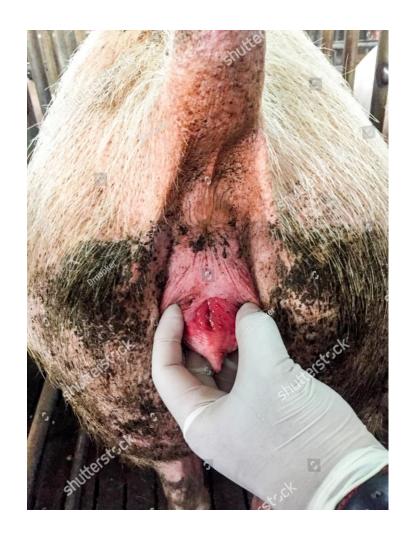
 Urethra – a passageway for both semen and urine that extends to the end of the penis.

• Penis – The boar penis is composed of tough fibroelastic tissue and form a corkscrew shape. To deliver semen into the female tract.

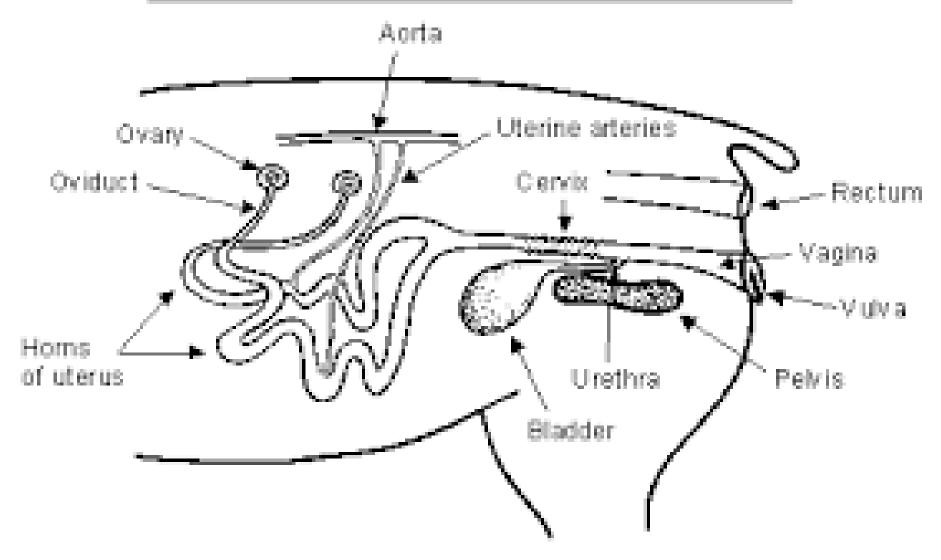
- Retractor penis muscle muscle that contracts to retract the penis and form the sigmoid flexure and relaxes to extend the penis upon sexual excitement.
- Prepuce the boar penis is extended through an opening called the prepuce located on the abdomen

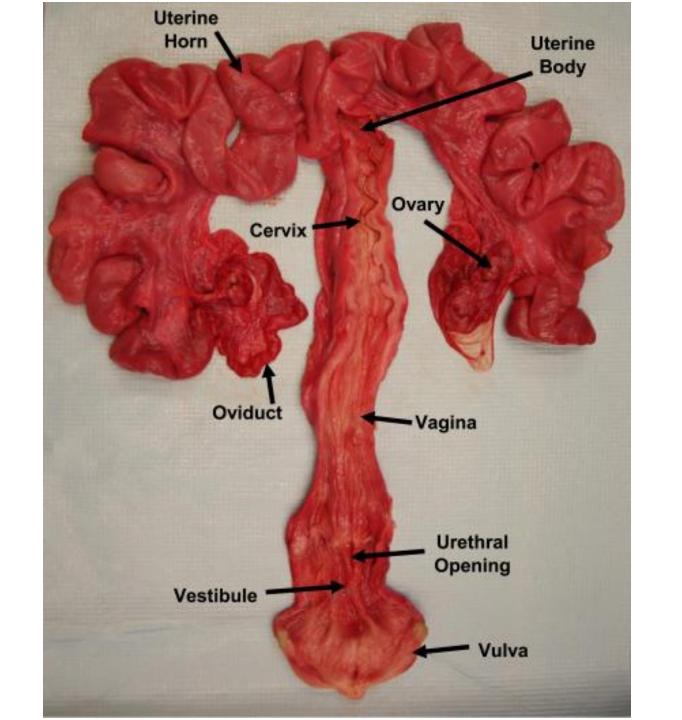
Female Reproductive System





THE REPRODUCTIVE TRACT OF THE SOW





Reproductive Tract's Organs

Ovaries

• Uterine body

• Infundibulum

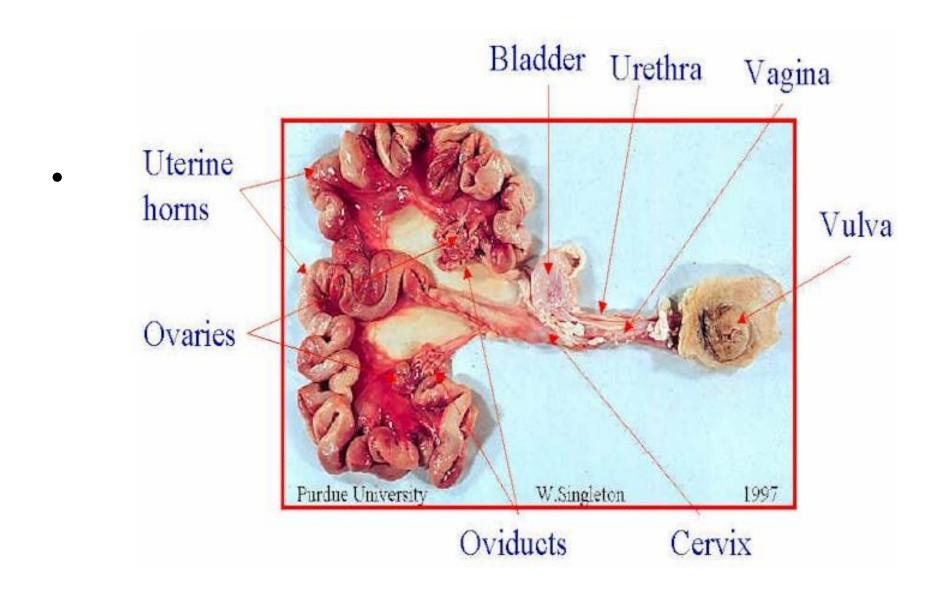
• Cervix

• Oviduct

• Vagina

• Uterine horns

• Vulva

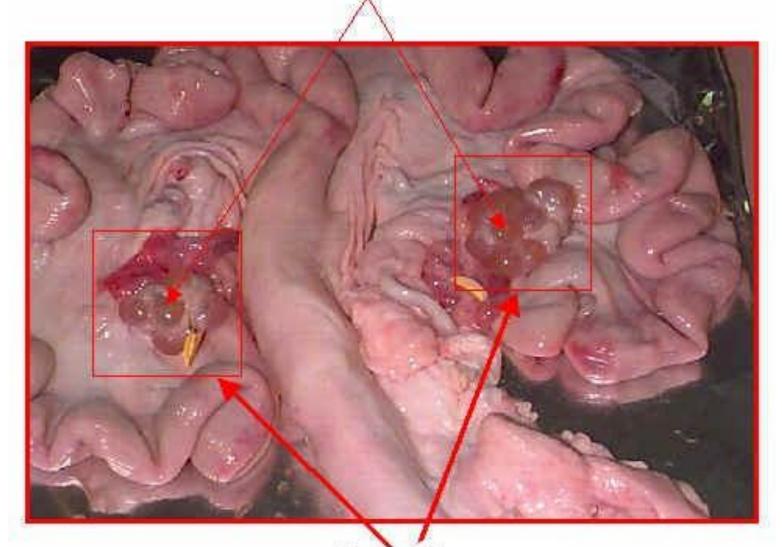


Ovaries

• Primary Structure

- Two Major Function:
 - To produce ova, the female germ cells
 - To produce the hormones progesterone and estrogen

Follicles



Ovaries

Infundibulum

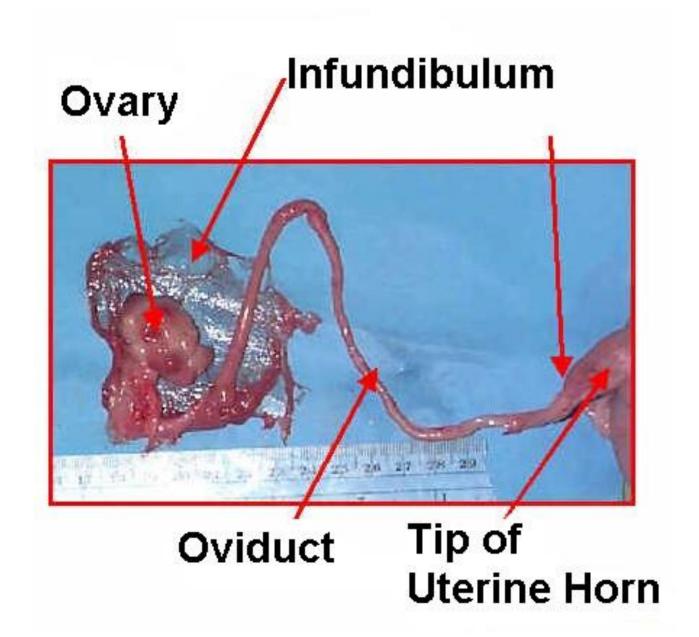
 Acts like a funnel to collect ova

 Diverts ova to the oviducts

Oviducts

6 to 10 inches long

Acts as site of fertilization



Uterine Horns

• 2 – 3 feet in a non-pregnant sow

• Act as a passage way for sperm

• Are the site of fetal development

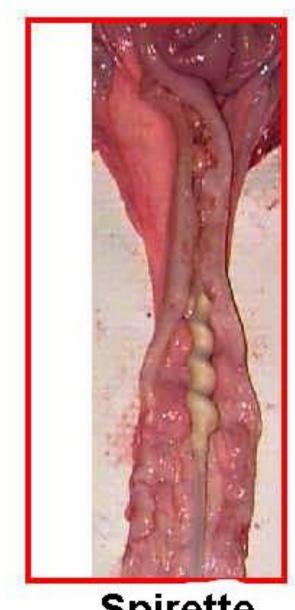
Uterine body is located at junction of the uterine horns

Cervix

Muscular junction between the vagina and uteri

Site of semen deposit

- It is relax during heat (estrus)
 - Constricted during pregnancy and when not in heat



Spirette

Vagina

• Extends from the cervix to the vulva

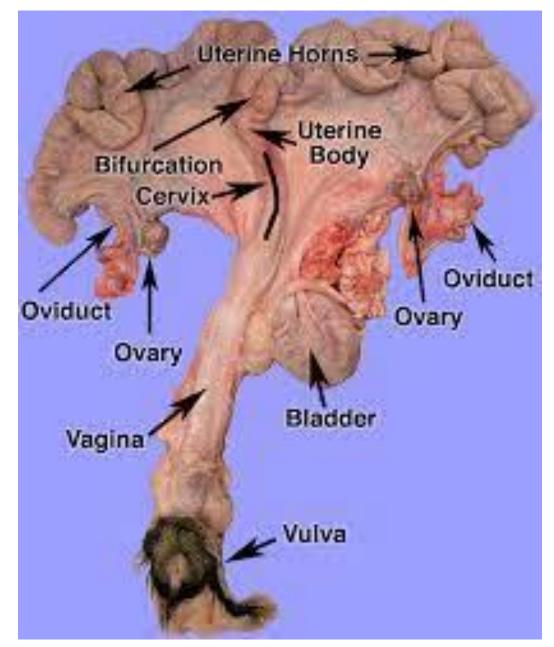
• Passage way for urine and piglets

• The Bladder is connected to the vagina by the urethra

Vulva

External part of the reproductive tract

• Becomes red and swollen just prior to estrus



Report Submission - Goat

- You have to write a repot, Including below content;
 - Label the male and female reproductive system
 - Describe the functions of the each organs in your words
 - Write a short notes (about 300 words for each)
 - Estrus of Goat
 - Differentiate words puberty and sexual maturity
 - Make your report as a soft copy (In type)
 - Submit via *Turnitin* and *VLE*
 - Plagiarisms will be check Strictly
 - Due Date: On or before 10th of March 2022

THANKYOU