

Carlson College of Veterinary Medicine

# FURst Aid: Reproductive Care for Dogs and Cats

(The presentation will begin shortly.)



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**Carlson College of Veterinary Medicine**

**FURst AID:  
REPRODUCTIVE CARE  
FOR DOGS AND CATS**



**Oregon State  
University**

Society for  
**Therio**genology  
Veterinarians Dedicated to Animal Reproduction

# WARNING!

This presentation will have explicit use of terminology that some people might find embarrassing, comical or offensive but unfortunately that is the nature of our jobs!

# Topics to Cover Tonight

- Male
  - Scrotum/testicle issues
  - Penile Issues
  - Prostate Issues
- Female
  - Perineal issues
  - Uterine Issues
  - Mammary Gland Issues

# Topics to Cover Tonight

- Many problems covered tonight are more applicable to intact (not conventionally spayed or neutered)
- Current trend is to keep gonads intact but rendered incapable of reproducing
- Some problems discussed will still occur in these animals
- Some studies suggest intact animals are less aggressive towards humans, most intact males will exhibit more inter-dog aggression



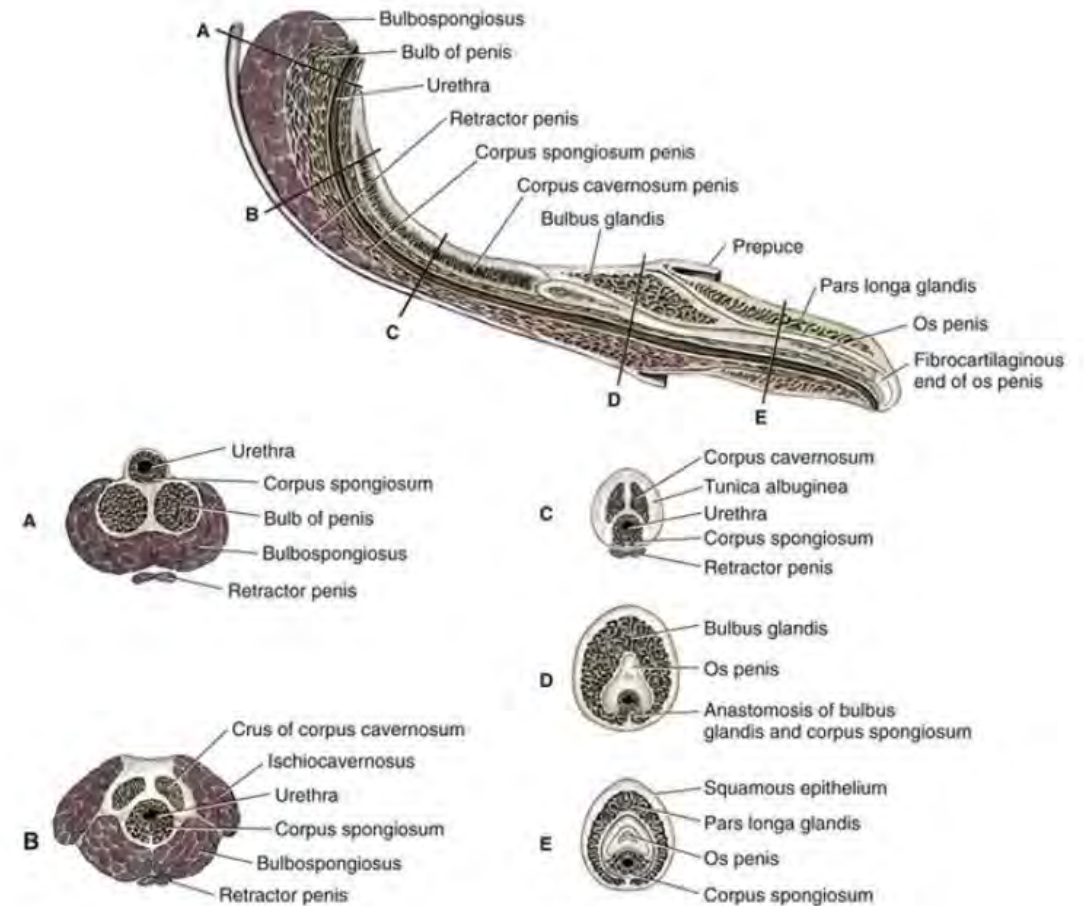
# Male Parts

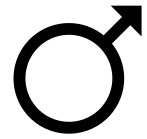
- Trauma
  - Other dogs/animals
  - Plants, fences, etc
  - Self trauma
    - Might imply another issue
- Rarely life threatening unless bleeding profusely but speed in treating depends on importance of future fertility



# Penile/Preputial Trauma ♂

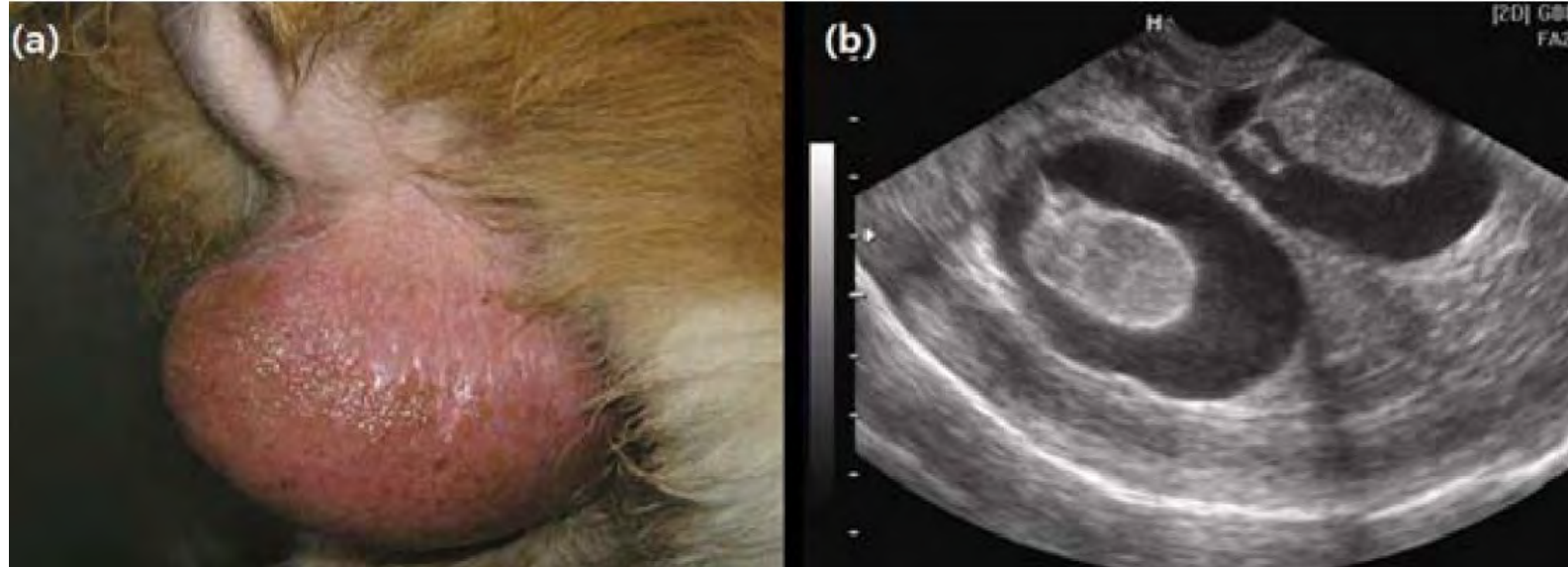
- There is a true bone that can fracture
- Large blood filled cavities allow for erection
- Urethral lacerations might affect future fertility
- “Bulbus Glandis” is not a tumor but is part of the normal “tie”





# Swelling w/o Obvious Trauma

- Testicles
  - Fluid around the testicles (blood, fluid, pus)
  - Hernia
    - Intestines-possibly life-threatening
    - Omentum-**not** life-threatening (sheet of fat that lines the abdomen)
  - Orchitis/Epididymitis (infection of testes/epididymis-collection system)
    - *Brucella canis* possible-uncurable, zoonotic (can spread to humans)





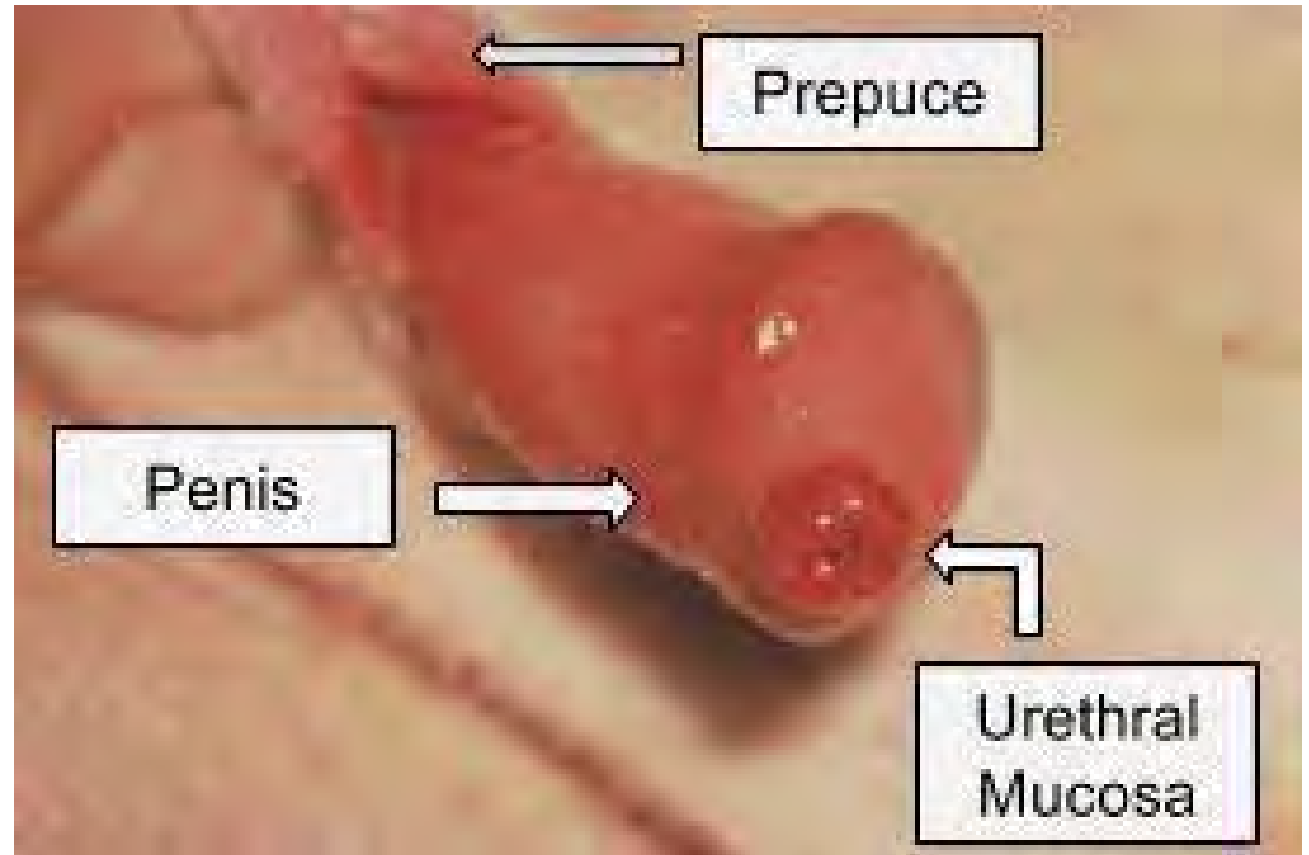
# Swelling w/o Obvious Trauma ♂

- Penis
  - Priapism
    - Non aroused erection
  - Paraphimosis
    - In some cases can be a function of a phimosis (small preputial opening) that can be resolved with lubrication of penis. Especially common in longer hair breeds (hair folds preputial opening inward, restricting diameter).
- Similar to the ED commercials, too long is an emergency



# Swelling w/o Obvious Trauma ♂

- Preputial prolapse
  - Bull dogs, Bostons, other brachycephalics
  - Can usually urinate just fine
  - If protruding beyond prepuce may need emollients (and “cone of shame” to prevent future self trauma)
  - Some are self limiting, others need extensive surgery
  - Need to rule out bladder issues, breathing issues.



# Prostate Issues ♂

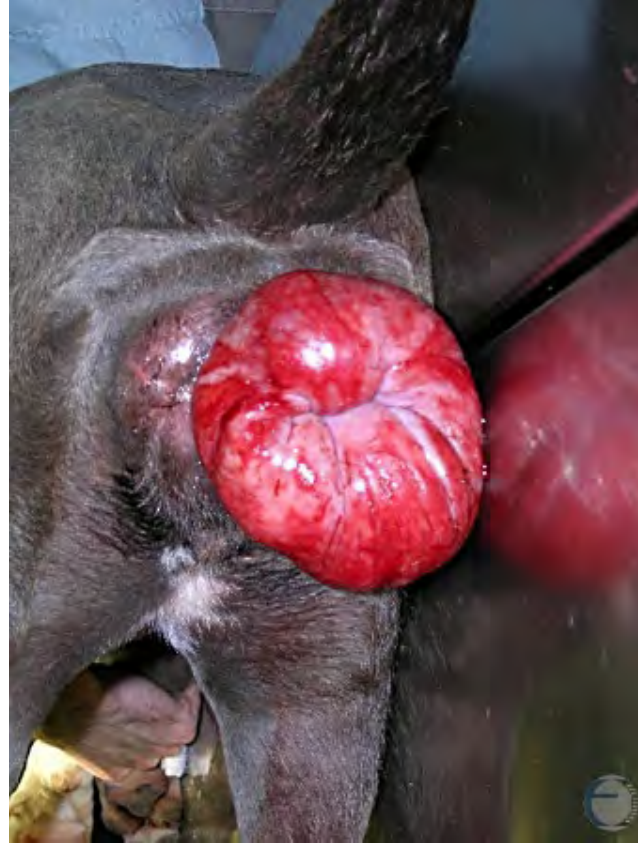
- Predominantly intact male problem
- BUT prostate cancer actually higher in neutered males
  - But neutered outweigh intact so may just be a statistical problem
- Straining
- “Ribbon like stool”
- Blood in urine
- Straining to urinate





# Female Parts

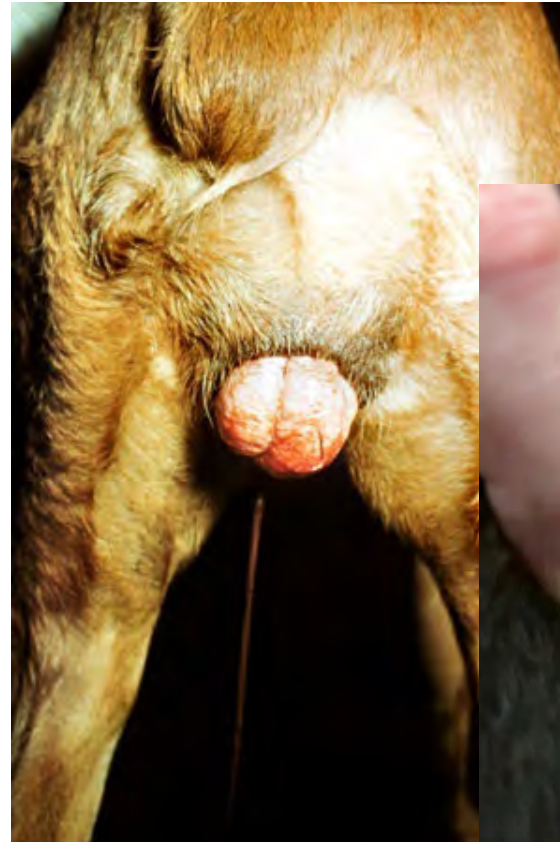
- Perineal/Vaginal
  - Non Pregnant
  - Pregnant
- Uterine
  - Pregnant
  - Non-Pregnant
  - Spayed
- Mammary
  - Lactating
  - Non-Lactating



# Perineum/Vagina/Vestibule



- Non Pregnant Dog/Cat
  - Trauma
  - Prolapsed Vagina
    - Typically in Estrus
    - Usually Self Limiting after heat
    - Emollients and limit self trauma
      - “Cone of shame”
    - Severe cases might need surgery
    - Consider spay
    - Spayed dog
      - Exposure to hormones
  - Vaginal Tumors





# Perineum/Vagina/Vestibule



- Non-Pregnant/Spayed or Pregnant
  - Vaginal masses
  - Vaginitis
  - Vaginal Foreign Body
  - Exposure to Hormones





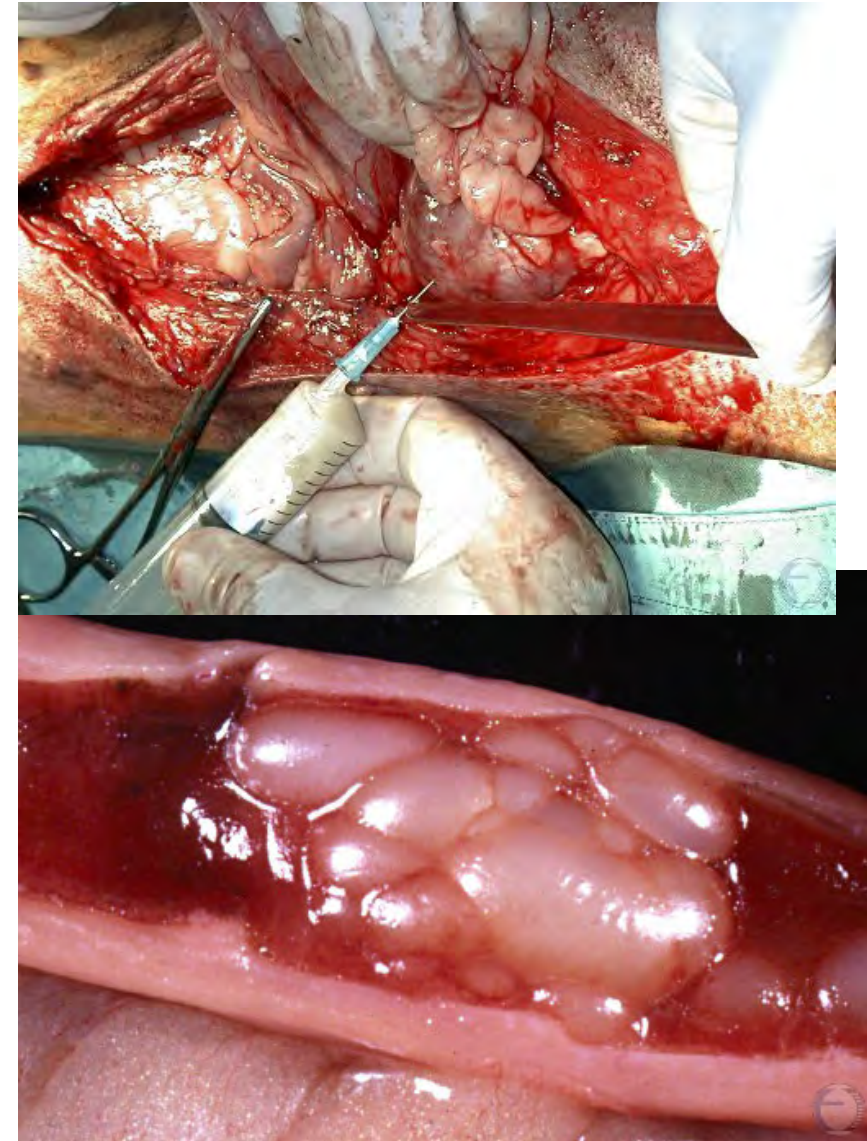
# Perineum/Vagina/Vestibule ♀

- Pregnant Dog
  - Normal
    - Mucoid
    - Bloody
  - Vaginitis
  - Uterine Infection/Pyometra
  - Abortion
  - Normal Labor
    - Dark Green (w/o puppies) = **EMERGENCY**
  - Obstetrics is a lecture of it's own



# Uterus ♀

- Non-Pregnant
  - Pyometra
    - Typically 2-8 weeks after heat
  - Open vs Closed
    - PU/PD might be the first sign (w/o discharge)
    - Confuse with Cystitis (bladder infection)
    - Urinalysis might contain WBCs (pus) if free-catch
    - DVM should use caution if obtaining urine sample using a needle (cystocentesis)
  - Cystic endometrial hyperplasia predisposes
  - Surgery **best** option for non-breeding animals but can be medically managed
    - Requires hormonal manipulation in addition to antibiotics
    - Sooner resolved, better fertility
    - Need to breed on the next cycle



# Uterus ♀

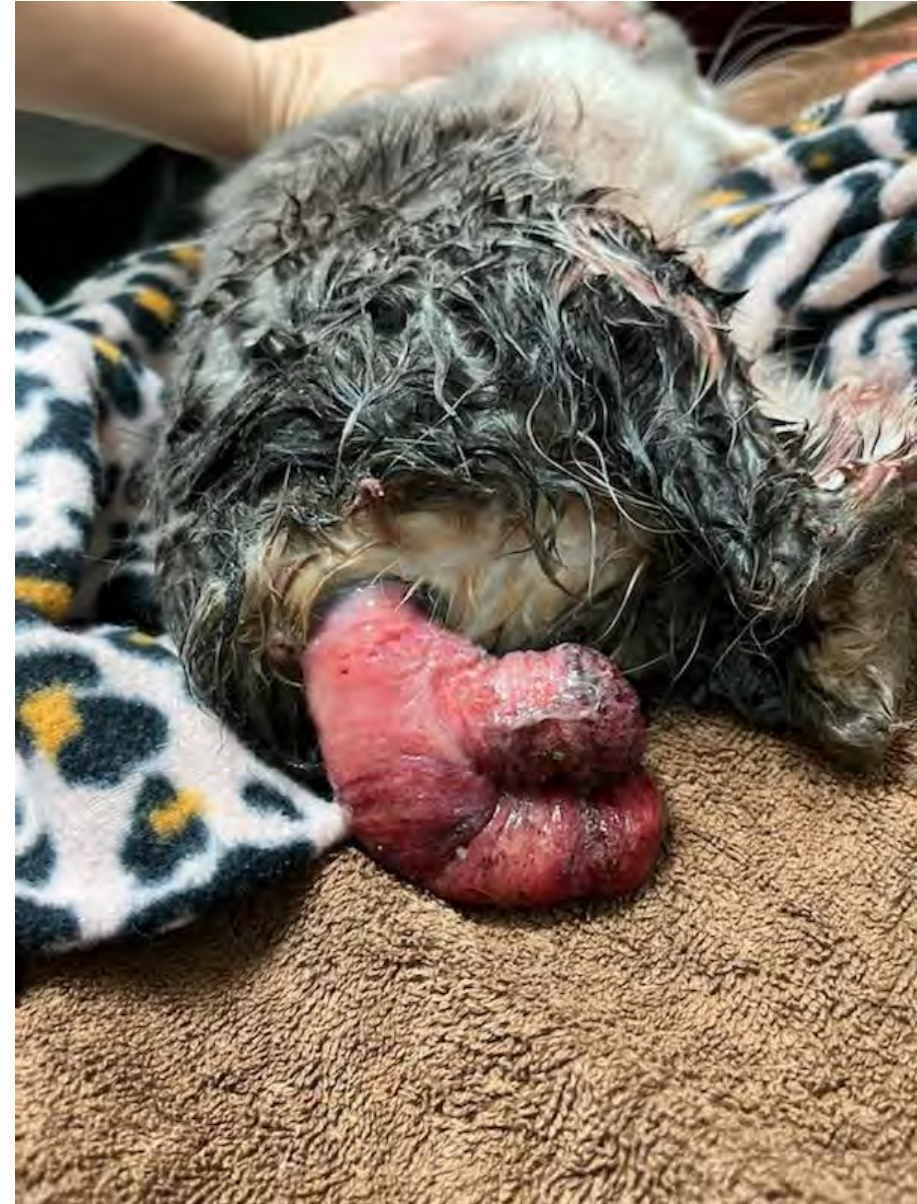
- Pregnant Uterus
  - Early Embryonic Death/Abortion
  - Normal/Abnormal Labor
- Normal Parturition
  - Stage 1
    - Temperature drop 12-48 hrs before
    - Panting, not eating, nesting, usually (hopefully) making milk
  - Stage 2
    - Delivery-more than two hours between puppies cause for phone call if not examination
  - Stage 3
    - Delivery of placentas
    - Will eat, try to limit #





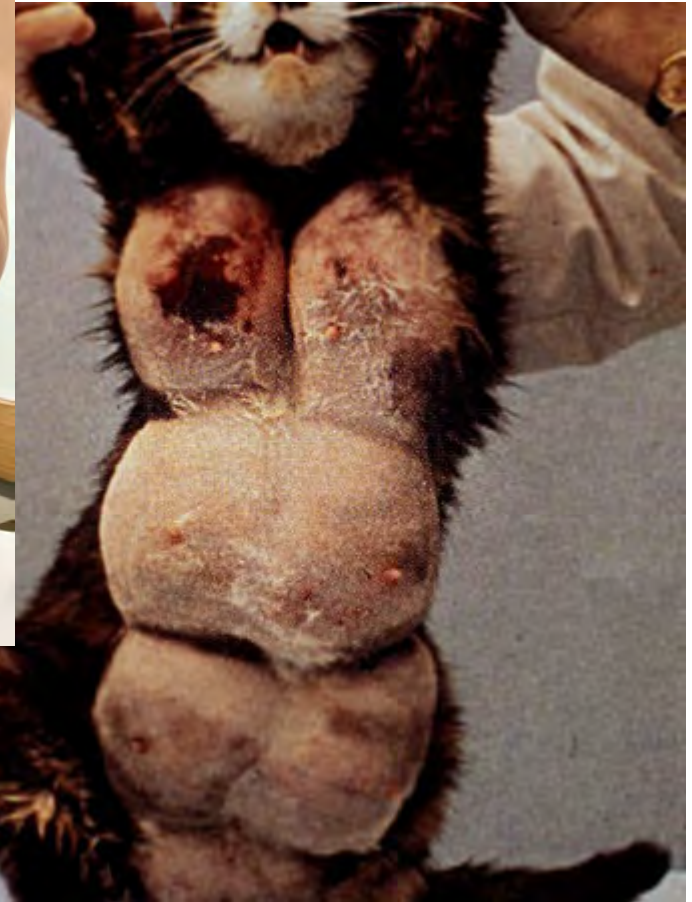
# Uterus ♀

- Post-partum
  - Metritis (uterine infection)
    - Retained placenta(s)
  - Sub Involution of Placental Sites (SIPS)
  - Prolapse



- Psuedo-pregnancy
  - “normal”
- Neoplasia (tumors/cancer)
- Mastitis (infection)
- Mammary hyperplasia
  - Mostly cats (intact or progestins)
  - Benign

# Mammary Gland(s) ♀





# Questions?





## Contact Information

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