FURst Aid: Reproductive Care for Dogs and Cats

(The presentation will begin shortly.)
CARLSON COLLEGE OF VETERINARY MEDICINE

FURst AID: REPRODUCTIVE CARE FOR DOGS AND CATS

OregOn State University

Society for Theriogenology
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-\textbf{not} life-threatening (sheet of fat that lines the abdomen)
- Orchitis/Epididymitis (infection of testes/epididymis-collection system)
  - \textit{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 its own
• 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
• 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
Questions?
Contact Information

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Thank you for Joining Us!