

WHAT IS NORMAL?

• GOATS

- Normal rectal temp
 101-103
- Estrus cycle
- 18-21 days
 Gestation Length
- 150 days+/- 5 days
- Physical appearance of healthy/sick animal



• SHEEP

- Normal rectal temp
 101-103
- 101-103
 Estrus cycle
- 16-21 days
- Gestation Length
 150 days +/- 5 days
- Physical appearance of healthy/sick animal



DISEASE PREVENTION

- Vaccination
 - Nutrition
- Environment

Vaccinations

□ Sheep & Goats:

- > Clostridium perfringens Type C&D
- > Tetanus> Soremouth
- Pneumonia
- Inforce-3 or TSV-2 intranasal
- > Abscesses
- Corynebacterium pseudotuberculosis Texas Vet Lab, Inc. Case-bac[®] or Caseous D-T [®] – Sheep only

Common Diseases

- Tetanus
- Enterotoxemia "Overeating Disease"
- Pneumonia
- Abscesses (Corynebacterium pseudotuberculosis)
- Foot Diseases (Footrot, Interdigital dermatitis)
- Parasitism
- Poliocencephalomalacia "Thiamine Deficiency"
- Urinary Calculi
- Johne's Disease

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TETANUS

Prevention (Disbudding, dehorning, tail docking, castration) Tetanus Antitoxin 150 units IM Cl. perfringens Type CD&T Toxoid Remember to booster



Enterotoxemia "Overeating disease"

- · Caused by Clostridium perfringens Type C or D
- Usually induced by sudden change in gut flora by • overconsumption of grain or stress.
- Easily prevented by vaccination •
- Treatment usually unrewarding
- Results in Death!!!!

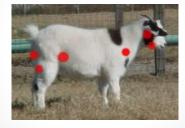
Pneumonia

- Sudden Death usually caused by Pasteurella sp. ٠
- . Verminous pneumonia (Coccidia, lungworms, etc.)
- Usually have elevated temperature (105-106)
 - Chronic (Poor-doer) o Chronic cough
 - o Unthrifty
- Treatment
 - Antibiotics (Extralabel use requires VPCR)
 - Antiinflammatories Supportive

Abscesses

- Contagious abscesses is caused by Corynebacterium pseudotuberculosis •
- Draining abscesses is source of infection, contamination of eratining auxcesses is source of infection, contamination of feeding equipment and environment Bacteria "set up shop" in regional lymph nodes o Most common site is mandibular region (lower jaw) o Can occur in any lymph node of body; therefore, can have internal or external abscesses
- •
- Treatment: Isolate, lance abscess, flush and keep isolated until healed. Cull affected animals Vaccinate herd
- Diagnosis:
 - Culture exudate
 - Serological test
 - Do not test if vaccinated.

Location of External Abscesses in Sheep & Goats





Foot Care

• Footrot

Caused by bacteria that invades the tissue between the hoof wall and sole of the foot

- Causes lameness
- Prevention:
 - Hoof Trimming · Control environment
 - Foot baths
 - Vaccine
 - Genetic selection



Severe Foot Rot Lesions







Interdigital Dermatitis

- · Caused by bacterial infection between the claws
- Can cause severe lameness
- Increased incidence in moist conditions, i.e. winter and spring. Provide clean, dry environment to minimize infection
- Treat with topical and systemic antibiotics





Polioencephalomalacia "Thiamine Deficiency"

Reduction of thiamine in rumen resulting in reduced thiamine in bloodstream which then results in reduced level of thiamine in white matter of brain.

- Causes:
 - Poisonous plants thiaminase enzyme
 Stress ruminal microflora change to bacteria that produce
 - stress rominal micronora change to bacteria m thiaminase enzyme
- Sudden Diet Change
- Acute onset: Initial stages "stargazing"
- Progresses to blindness which then progresses to incumbency, seizure then death.
 - From initial stage to death can occur within 24 hours.



Urolithiasis "Urinary Calculi"

- > Major cause of heartbreak in 4-H/FFA projects.
- Most common presentation is owner calls with "constipated" wether. Sheep and goats do not get constipated! They are straining to urinate.
- Sedate with Acepromazine 2-5mg IM
- Steadie will Acceptonicate 2-3ing livit
 Sit animal on rump and exteriorize penis. Calculi is usually identified in urethral process on end of penis which is then removed by excision. If wether is able to urinate, yahoo!! If not, very difficult to remove calculi higher up without performing perineal urethrostomy.
 Put wether on Ammonium chloride drench. Mix 1 tsp NH3CI crystals
- Put wether on Ammonium chloride drench. Mix 1 tsp NH3Cl crystals with small amount of warm water and give orally once daily for 7 days then biweekly for control.
- > Be sure animal has proper amounts of Ammonium Chloride in ration.
- Treat with antibiotics and anti-inflammatories.
- > Major concern ruptured bladder. Perform abdominocentesis to DX.

Johne's Disease

- Chronic debilatating disease affecting mature sheep, goats, cattle
- Caused by Mycobacteria paratuberculosis
- Transmitted by fecal-oral route
- Offspring from infected dam at more risk of contracting disease.
- No treatment available
- Remove affected animal from herd
- immediately
 Serological and fecal testing available but false negatives occur



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Reproductive Diseases

- Pregnancy Toxemia
- Mastitis
- Cystic Follicles/Corpus luteum
- Nonbreeders
- Caprine Arthritis Encephalitis/Ovine Progressive ٠ Pneumonia
- Retained placenta ABORTIONS (Campylobacter, Chlamydia, Q-fever, Toxoplasmosis, Blue Tongue)
- · Abnormal fetal developmental diseases: Cache Valley

Pregnancy Toxemia

- Usually occurs in obese animals carrying multiple • fetuses
- Can occur as early as 6 weeks before kidding/lambing • date
- Clinical signs:
 - Decreased appetite
 - Swollen Legs
 - Lethargy
 - Unwillingness to stand due to pain &/or weakness Moist, nonproductive cough

Pregnancy Toxemia (Cont'd)

- Treatment
 - Place in area where food and water easily accessible
 - Vitamin B-complex (B12)
 - Propylene Glycol drench Antibiotics if indicated
 - Probiotics
 - Calcium/Dextrose
 - Termination of pregnancy

Prevention

- Place animals in separate groups based on fetal numbersPlace animals in separate groups based on body condition
- Prevent obesity
- · Have food available in adequate quantities

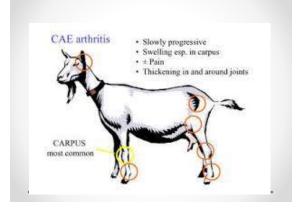
Mastitis

- Environmental causes Coliform Gangrenous
- . Contagious mastitis - Staph, Strep
- Treatment
 - Systemic antibiotics . Intramammary infusions
 - Anti-inflammatories
- IV Fluids Prevention
 - Reduce environment contamination
 Dairy sheep/goats proper sanitation during milking procedure
 - Use of "dry cow" intramammary
- infusions



Caprine Arthritis Encephalitis "CAE"

- · Seen primarily in dairy goats
- · Viral disease primarily transmitted in milk, especially in colostrum
- · Causes swollen joints, lameness, hard udders, decreased milk production, pneumonia, shortens life span of infected animal
- · Easily diagnosed through blood sample
- Test, cull positive animals, feed kids heat treated colostrum and pasteurized milk from negative does.
- · Be sure all recipient does are tested for CAE!



Maedi-Visna Ovine Progressive Pneumonia "OPP"

- Viral disease primarily affecting respiratory system of sheep
- Can cause progressive paralysis, wasting, arthritis and chronic mastitis
- Transmitted in colostrum, milk, fecal contamination, respiratory secretions
- Related to CAE virus of goats.
- · Serologic test to identify carrier sheep, cull

Abortions

Causes:

- Campylobacter (vaccine available)
- Toxoplasmosis
- Chlamydia (vaccine available)
- Coxiella burnetti "Q-fever"
- Neospora
 - Blue Tongue Virus
- Cache Valley virus (Usually congenital deformities associated with this virus)
- Other bacterial causes
- Utilize diagnostic lab to confirm diagnosis!!!!

Tools to Utilize

- Veterinary Services:
 - Pregnancy testing (ultrasound, blood)
 Necropsy results (extremely important for mineral analysis of herd)
 - Necropsy results (e)
 Fecal Examination
 - Veterinary Client Patient Relationship (VCPR) is a must for the future (i.e. Veterinary Feed Directive (VFD)

Skin Diseases

- Ringworm
- Zinc Deficiency
- Soremouth



Zoonotic Diseases

- Abortion diseases
 - Toxoplasmosis
 - Coxiella burnetti ("Q-fever")
- Soremouth
- Ringworm



Zoonotic Diseases, Cont'd Causes of Abortions

Coxiella burnetti- "Q-Fever"

- Organisms shed in feces, urine, milk and
- highest numbers are shed in vaginal secretions and uterine fluids during abortion
- Immunocompromised individuals should avoid contact
 Flu-like symptoms
- Toxoplasmosis

 Newborns may be weak or born dead
 - Avoid fecal contamination of feed sources/troughs by "barn cats"



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