

Herd Health

1) To maintain a healthy herd

- A) Start with healthy animals - reputable producers
- *pre*purchase exam?
- B) Quarantine *all* incoming animals - two weeks
- C) STRICT biosecurity - closed herd or test; disinfect
- D) Test and cull or isolate - persistent infections
(CAE, CL, TB, Brucellosis, Johnes)
- E) Vaccinate - CDT +/- soremouth, leptovibrio, CL
- F) Nutrition and supplementation - moderation!

2) Identify sick animals

- A) Know what is normal: practice on your healthy animals!

temperature - 102 to 104 F
heart rate - 70 to 90 beats per minute
respiratory rate - 15 to 30 breaths/min
respiratory rhythm - equal inspiratory/expiratory
gut sounds - rumen contractions every 1-2 min
posture and behavior - play/alarm/moving/at rest

- B) Assess from a distance - apart from herd/can't keep up,
limping/stiff, straining to urinate/defecate/kid,
open mouthed breathing/panting/coughing,
blind/staggering/weak/thin, grazing/browsing,
response to menace

C) Assess up close - body condition, age, TPR; gut sounds/ regurgitation/foul or ketotic breath/scours/bloat; abn respiration/cough/nasal discharge; wounds/ swelling/discharge/skin lesions/feet overgrown; mammary swelling/abn milk

3) Individual disorders by area or function

A) Head

- 1) dental overgrowth - thin, slow difficult eating, odor
- 2) abscesses - isolate, culture *before* they drain
- 3) soremouth - crusting lesions lips, contagious/ zoonotic

B) Gastrointestinal

- 1) bloat - free gas vs frothy;
 - tube vs poloxalene (Bloatguard), DSS (1 Oz), veg oil (100 ml), soap (10 ml)
- 2) grain overload - bicarb, antacid, fluids, Banamine, probiotic, thiamine, PenG
- 3) diarrhea - diet (milk, grain, toxic)
 - bacterial (E Coli, Salmonella, Johnes)
 - protozoal (cryptosporidia, coccidia)
 - parasitic

 - hygiene, isolate, fluids, nutrition, Rx

 - digestive upsets often benefit from antacids, probiotics, Thiamine

C) Feet and skin

- 1) laminitis (founder) - nutritional excess
- 2) footrot - aggressive trimming, footbaths, cull
- 3) lice - ivermectin, dustbags
- 4) flystrike - wet, open wounds
 - fly spray, then Granulex
 - Bute/Banamine/Aspirin and Pen G

D) Urinary

- 1) calculi - Banamine/Valium vs surgery, *early*
- 2) pizzle rot - reduce dietary protein, Pen G, topical

E) Respiratory

- 1) pneumonia
 - acute, resp distress, fever
 - LA 200/NuFlor/Baytril + Banamine
- 2) chronic cough
 - chronic, alert, +/-wasting
 - dust, parasitism, CAE/CL/TB

F) Metabolic and nutritional diseases

- 1) polioencephalomalacia (PEM) = thiamine deficiency
 - follows high carb diet or digestive upset causing acidosis
 - see blindness, staggers, star gazing, coma

- aggressive, repeated injections Thiamine (not B complex)

2) pregnancy toxemia (fatty liver)

- late pregnant, multiple fetuses, obese, decreased intake = the "perfect storm"

- treat fluids, calories, B vits, induce delivery

3) white muscle disease - Selenium deficiency

- young most affected, muscle function generally affected - looks like other disorders (tetanus, joint ill, pneumonia)

- continuous dietary supplement, inject does late pregnancy & kids at birth (BoSe)

4) floppy kid syndrome

- weak, depressed, anorexic kids first 2 wks;

- possible overfeeding causes fermentation dropping blood pH

- oral pepto + sodium bicarb

G) Reproductive

1) mastitis

2) dystocia

H) Infectious diseases

1) Pulpy kidney (CD&T)

- most common in overfed youngsters

- sudden abd pain, distress, death

- vaccinate late preg & 2,3,& 6 mos

- 2) Tetanus - elastrator bands, dehorning
 - vaccinate with CD&T
- 3) Pinkeye - Contagious! Fly control, support
- 4) Caprine arthritis and encephalitis (CAE)
 - neurologic form in youngsters; wasting, big joints, chronic pneumonia & mastitis in does
 - transmitted mostly via milk
 - prevent by pasteurization, test & cull/isolate
- 5) Caseous lymphadenitis (CL)
 - slowly developing abscesses external lymph nodes (jaw, shoulder, flank, udder), internal lymph nodes, skin and lungs
 - spread by pus contamination of facilities, aerosol
 - prevent by biosecurity, test & cull/isolate, vax

I) First Aid Kit

Equipment	Materials	Meds
Stethoscope	VetWrap	Bloatguard
Thermometer	Roll gauze	LA 200/Biomycin
Scissors	Gauze pads	Banamine/Phenylbutazone
Wire Cutters	Syringes	Penicillin G
Safety Pins	Needles	PeptoBismol/Maalox/Lactaid
Clippers	Wound Scrub	Kaopectate
Hoof trimmers	Wound Sol'n	Peroxide
Bulb syringe	Exam gloves	Inj Thiamine (B1)
Feeding tube	Q Tips	Bicarb
OB snare	Dose syringe	Probiotic
	Electrolytes	Neosporin
	J Lube/KY	BoSe
	Fly spray	Ivermectin
	Teat canulas	SMZ TMP/Albon
	Kotex	CefaLak/Today
	Tampons	Aspirin
		Epinephrine
		Eye ointment
		Propylene Glycol
		DSS

J) References

- Sheep and Goat Medicine DG Pugh
- Merck Veterinary Manual (9th) Merial
- Goat Medicine (2nd) Smith and Sherman
- Diseases of the Goat (3rd) Matthews