

**University of California
Sierra Foothill Research and Extension Center
ANIMAL HEALTH PROGRAM**

This document describes the routine animal health procedures followed at the University of California Sierra Foothill Research and Extension Center (SFREC). These guidelines are reviewed, updated and approved annually by the SFREC Animal Research Committee. The active ingredients and vaccines are available under a number of brand names. Brand names used in these recommendations are examples only and not specific endorsements or recommendations.

ALWAYS READ AND CAREFULLY FOLLOW DRUG AND VACCINE LABEL INSTRUCTIONS.

The herd manager, in consultation with the clinical veterinarian, has the discretion to alter timing of vaccinations and other health management activities if conditions are such that using the current protocol may adversely impact animal health. The clinical veterinarian is to be contacted if below treatments do not work.

Epinephrine RX should be on hand for anaphylactic shock.

Mineral supplements (including selenium) will be provided year round to ALL animals.

Diagnosis of unknown causes of death or illness: Cause of disease to be determined if possible with assistance of Center Veterinarian and UCD VMTH and California Animal Health and Food Safety Laboratory.

CALVES (UNWEANED, WEANLINGS, YEARLINGS)

Birth-1 day Tag, weigh, chlorhexadine solution on naval if assisted birth or exposed to contaminated areas.

Dehorn Most are polled. If necessary, use dehorner and horn iron following AG Guide. Use local (< 3 mos) anesthesia if greater than 1 month of age.

Branding Hot iron "UC"
(2.5 – 5 mos)

Castration "Knife" Method/ E-Z Bloodless Castrator. *If castration is by banding, follow Tetanus protocol below.*
(2.5 – 5 mos)

General Provide supplemental selenium to all calves by injection, boluses or through supplemental feeding.

Shipping Prefer 45 days preconditioning after weaning, before shipping.

Number Brand Freeze brand replacements (alcohol and dry ice)
(12-24 mos)

PROPHYLAXIS

Tetanus Clostridium tetani antitoxin and vaccination at castration, at separate sites (only if castration is by banding).
(2-3 months)

1st Vaccination
(2.5 – 5 months)

- Modified Live vaccine: BVD, IBR, P13, BRSV (+Lepto 5-way)
- Clostridial 8-way
- Histophilus somni vaccine (e.g. Somnus)

Booster
(2 weeks prior to wean)

- Modified Live Vaccine – BVD, IBR, PI3, BRSV (+Lepto 5-way)

- Histophilus somni vaccine (e.g. Somnus)
- Feedlot steers and heifers: Mannheimia hemolytica vaccination

Pink Eye Vaccine Administer injectable or implants 2 weeks prior to weaning and/or prior to peak fly depending on label requirements.

Anaplasmosis (5-10 months) After selection of replacements: Anaplasma marginale vaccination (for cattle < 11 months of age)

Brucellosis (5-10 mos) Heifers receive Brucella abortus (RB-51) vaccine by veterinarian

Anthelmintics (Wean/Postwean) Long range wormer: Dectomax™, Ivomec™, Valbazen™ (rotation suggestion)

- Booster** (Post Wean)
- Modified Live Vaccine – BVD, IBR, PI3, BRSV (+ Lepto 5-way
 - Histophilus Somni Vaccine (e.g. Somnus)
 - Clostridial 8-way (can be given at the same time as Brucellosis for heifers
 - Feedlot steers and heifers: Mannheimia hemolytica vaccination

Coccidiosis Prevention (Post Wean) Decox™, Bovatec™, Rumensin™, Medicated Block (Free Choice)

REPLACEMENT HEIFERS (Fall Calvers)

General Provide supplemental selenium to all calves by injection, boluses or through supplemental feeding.

PROPHYLAXIS

Pre Breeding (October) Modified Live Vaccine – BVD, IBR, PI3, BRSV +Vibrio/Lepto 5-way

Booster (November) Modified Live Vaccine – BVD, IBR, PI3, BRSV +Vibrio/Lepto 5-way

Booster (Oct/Nov) Clostridial 8-way

Reproductive (Oct/Nov) Tract Score – DVM

Pregnancy Exam 45 days after bulls are removed from cows. If substantial abortion problem, boost w/ modified live vaccine – BVD, IBR, PI3, BRSV/Lepto 5-way + (Spirovac™)

COWS (Fall Calvers)

General Provide supplemental selenium to all calves by injection, boluses or through supplemental feeding.

PROPHYLAXIS

Pre Breeding (November) If open, Modified Live Vaccine – BVD, IBR, PI3, BRSV + Vibrio/Lepto 5-way

Annual Revaccination (Nov/Dec) Clostridial 8-way

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| Anthelmintics (May) | Long Range Wormer: Dectomax™, Ivomec™ +, or Valbazen™ (Rotation Suggested) |
| Calf Scours (prior to calving) | If pregnant, E.coli, Rotavirus, Corona virus vaccine (Scourguard™) – Only on years following high incidence of scours. |
| Pregnancy Exam | 45 days after bulls are removed from cows. If substantial abortion problem, boost w/ modified live vaccine – BVD, IBR, PI3, BRSV/Lepto 5-way + (Spirovac™) |

REPLACEMENT HEIFERS (Spring Calvers)

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| General | Provide supplemental selenium to all calves by injection, boluses or through supplemental feeding. |
| PROPHYLAXIS | |
| Pre Breeding (April) | Modified Live Vaccine – BVD, IBR, PI3, BRSV +Vibrio/Lepto 5-way |
| Booster (May) | Modified Live Vaccine – BVD, IBR, PI3, BRSV +Vibrio/Lepto 5-way |
| Booster (April/May) | Clostridial 8-way |
| Reproductive (June) | Tract Score – DVM |
| Pregnancy Exam | 45 days after bulls are removed from cows. If substantial abortion problem, boost w/ modified live vaccine – BVD, IBR, PI3, BRSV/Lepto 5-way + (Spirovac™) |

COWS (Spring Calvers)

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| General | Provide supplemental selenium to all calves by injection, boluses or through supplemental feeding. |
| PROPHYLAXIS | |
| Pre Breeding (May) | If open, Modified Live Vaccine – BVD, IBR, PI3, BRSV + Vibrio/Lepto 5-way |
| Annual Revaccination (May/June) | Clostridial 8-way |
| Anthelmintics (November) | Long Range Wormer: Dectomax™, Ivomec™ +, or Valbazen™ (Rotation Suggested) |
| Calf Scours (prior to calving) | If pregnant, E.coli, Rotavirus, Corona virus vaccine (Scourguard™) – Only on years following high incidence of scours. |
| Pregnancy Exam | 45 days after bulls are removed from cows. If substantial abortion problem, boost w/ modified live vaccine – BVD, IBR, PI3, BRSV/Lepto 5-way + (Spirovac™) |

CALVING**Dystocia:**

Assist as necessary; most difficult cases to VMTH in Davis

Prolapse:

1. "Shrink" tissue with powdered sugar – IF NEEDED
2. Re-place tissue-epideral (Lidocine™)
3. Pin vulva if necessary
4. Administer systemic penicillin, re-treat as needed.
5. Remove pins
6. Cull cow, and where possible, offspring

Metritis & Retained Placenta:

1. Systemic Penicillin
2. Administer Lutalyse™
3. Repeat steps 1 & 2 as needed

BULLS

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| General | Provide supplemental selenium to all calves by injection, boluses or through supplemental feeding. |
| | <u>PROPHYLAXIS (For Fall Breeders)</u> |
| Pre Breeding (December) | <ul style="list-style-type: none"> • Modified Live Vaccine – BVD, IBR, PI3, BRSV +Vibrio/Lepto 5-way +Spirovac™ • Clostridial 8-way |
| Anthelmintics (May) | Long Range Wormer: Valbazan™/ Ivomec Plus™/ Dectomaz™ (Rotation suggested) |
| Reproductive (Nov/Dec) | Tract exam and semen test (BSE), Tritrichomonas testing by DVM |

HORSES

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|-------------------------------------|--|
| Vaccinations | |
| Feb – 1x/year | E/W/V Encephalomyelitis, Tetanus, Influenza, West Nile and Rabies |
| As Needed | Rhinopneumonitis EHV1 & EHV4 - as needed for newly introduced, young (< 5 years old) and pregnant mares (Need booster 3-4 weeks after 1st vaccination on all) |
| Anthelmintics | |
| Aug & Feb | Pyrantel Pamoate |
| Oct & April | Ivermectin |
| Dec & June | Benzimidazole |
| Hoof Care (every 8 weeks) | Necessary care provided by professional farrier |

BEEF CATTLE TREATMENTS

Scours Calves: Sustained release ocytetracycline & long acting sulfamethazine 1-3 times, every other day; administer Banamine™ by IV daily as necessary. Oral fluids/electrolytes if needed.

Coccidiosis **Calves:** Long acting sulfamethazine, 3 times, every other day; treat group with preventative, if necessary, such as Corid™, Bovatec™, Decox™ and/or Rumensin™.

Anaplasmosis **All:** Sustained release oxytetracycline 1-3 times every other day, or Oxytetracycline 3 times daily (only if cattle can be restrained without over exciting them).

Pneumonia If temperature is 103.5°F or greater, Banamine should be administered in addition to below treatments.

Unweaned Calves: 1st Treatment: Resflor™ 1 time or Nuflor™ 1 time; 2nd Treatment: Draxxin™ 1 time; 3rd Treatment: Baytril™ (enrofloxacin) 1 time; 4th Treatment: Excede™ (centiofur).

Weanling and Yearling Calves: Sustained release oxytetracycline (LA-200™ or LA-300™) & long acting sulfamethazine 1 - 3 times, every other day; administer Banamine™ by IV daily as necessary; 2nd Treatment: Baytril™ (enrofloxacin) 1 time; 3rd Treatment: Nuflor™ (florfenicol) 1 time; 4th Treatment: Excede™ (ceftiofur). Alternate Treatment: Resflor™

Cows and Bulls: 1st Treatment: Resflor™ 1 time or Draxxin™ 1 time; 2nd Treatment: Nuflor™ (florfenicol) 1 time; 3rd Treatment: Baytril™ (enrofloxacin) 1time; 4th Treatment: Excede™ (centiofur).

Pink Eye **Calves (Unweaned-Yearlings):** 1st Treatment: Nuflor™ (florfenicol – off label use determined to be effective); 2nd Treatment: Sustained release oxytetracycline (LA-200™) & Patch 1 time, ½ cc Sub-conjunctival penicillin

Cows and Bulls: Eye patch 1 time/Florfenicol (Nuflor™) off label use but determined to be effective if needed, administer Banamine™ by IV, ½ cc Sub-conjunctival penicillin

Abscesses **All:** Drain/Flush/Betadine™ or Nolvasan™ topical/Fly-repellant/PPG if necessary

Foot Rot **Unweaned Calves:** Clean Wound. 1st Treatment: Nuflor™ or Resflor™; 2nd Treatment: sustained release oxytetracycline (LA-200™)

Weanling and Yearling Calves: Nuflor™(Florfenicol) or Resflor™, 2nd treatment LA-200™ (sustained release oxyteracycline), or 3rd treatment Oral Sulfa/PPPG

Cows and Bulls: Clean Wound; Oral Sulfa; PPG; Nuflor™ (IM); administer Banamine™ IV