

**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. **This revision is dated July, 2009.**

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.**

<b>CALVES (unweaned):</b>		<u>Age</u>
<b>Birth:</b>	Tag, Weigh, Nolvasan™ solution on naval if assisted birth or exposed to contaminated areas.	<b>1 day</b>
<b>Branding:</b>	Hot Iron "UC"	<b>2.5 - 5 months</b>
<b>Castration:</b>	"Knife" Method/ E-Z Bloodless Castrator	<b>2.5 - 5 months</b>
<b>Dehorn:</b>	Most are polled; sterile knife	<b>&lt; 3 mos.</b>
	Dehorner, Horn Iron, ALAR Guide	<b>&gt; 3 mos.</b>
	Use local anesthesia if greater than 1 month of age	
<b>General:</b>	Provide supplemental selenium to all calves by injection, boluses or supplemental feeding	
	Provide Pinkeye vaccine by implant or injection	<b>2 weeks prior to weaning</b>
<b>Prophylaxis:</b>		
1st Vaccination	Modified Live vaccine - BVD, IBR, PI3, BRSV (+ Lepto 5-way)	<b>2.5 - 5 months</b>
	Clostridial 8-way (OK because cows have 2 previous Bovishield™)	<b>2.5 - 5 months</b>
Booster	Modified Live Vaccine - BVD,IBR, PI <sub>3</sub> , BRSV (+ Vibrio/Lepto 5-way)	<b>2 weeks prior to weaning</b>
	Feedlot Steers and heifers - Mannheimia hemolytica vaccination	<b>2 weeks prior to weaning</b>
Anaplasmosis	Anaplasma marginale vaccination - After selection of replacements (for cattle < 11 months of age)	<b>5-10 months of age</b>
Anthelmintics	Dectomax™, Ivomec™, Valbazen™ (Rotation suggested)	<b>Wean/Postwean</b>
Tetanus	Clostridium tetani antitoxin and vaccination at castration, at separate sites (only if castration is by banding)	<b>2-3 mos.</b>
Shipping	Prefer 45 days preconditioning after weaning before shipping.	
<b>Treatments:</b>		
Scours	LA-200™ (Sustained release oxytetracycline) & long acting sulfamethazine 1 - 3 x every other day; Banamine™ daily as necessary. Oral fluids/electrolytes if needed	
Pneumonia	LA-200™ (Sustained release oxytetracycline) & long acting sulfamethazine 1 - 3 x every other day; Banamine™ daily as necessary. 2nd treatment -Baytril™ (enrofloxacin) 1x, 3rd treatment Nuflor™ (florfenicol) 1x, 4th treatment Excede™ (ceftiofur)	
Anaplasmosis	LA-200™ (Sustained release oxytetracycline) 1-3x every other day, or Oxytetracycline 3x daily	
Pinkeye	Nuflor™ (florfenicol), 2nd treatment LA-200™ (sustained release oxytetracycline) & Patch 1x	
Coccidiosis	Long acting sulfamethazine 3x every other day; treat group with preventive, if necessary, such as Corid™, Bovatec™, Decox™, and/or Rumensin™	
Abcesses	Drain/Flush/Betadine™ or Nolvasan™ topical/Fly-repellant/PPG if necessary	
Foot Rot	Clean Wound/Oral Sulfa/PPG or IM LA200™ (Sustained release oxytetracycline)	
	<b>The herd manager, in consultation with the attending 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 cl</b>	
	<b>Epinephrine Rx should be on hand for anaphalactic shock.</b>	
	<b>Mineral supplements (including selenium) will be provided year round to ALL animals.</b>	
	<b>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</b>	

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<b><u>CALVES (weanlings and yearlings):</u></b>		<b>Age</b>
<b>Number Brand:</b>	Freeze Brand (Alcohol and dry ice)	<b>12-24 mos.</b>
<b>General:</b>	Provide supplemental selenium to all calves by injection, boluses or supplemental feeding	
<b>Prophylaxis:</b>		
Booster	Modified Live Vaccine - BVD,IBR, PI <sub>3</sub> , BRSV (+ Vibrio/Lepto 5-way)	<b>PostWean</b>
	Feedlot Steers and heifers - Mannheimia hemolytica vaccination	<b>PostWean</b>
	Clostridial 8-way (can be given at same time as Brucellosis for heifers)	<b>PostWean</b>
Anaplasmosis	Anaplasma marginale vaccination - After selection of replacements (for cattle < 11 months of age)	<b>5-10 months of age</b>
Brucellosis	Brucella abortus (RB-51) vaccine by veterinarian	<b>5-10 mos.</b>
Anthelmintics	Dectomax™, Ivomec™, Valbazen™ (Rotation suggested)	<b>Wean/PostWean</b>
Coccidiosis	Decox™, Bovatec™, Rumensin™, Medicated Block (free choice)	<b>PostWean</b>
Shipping	Prefer 45 days preconditioning after weaning before shipping.	
<b>Treatments:</b>		
Scours	Oral fluids/electrolytes and If needed, LA-200™ & long acting sulfamethazine 1 - 3 x every other day; Banamine™ daily for up to 3 days	
Pneumonia	LA-200™ (Sustained release oxytetracycline) & long acting sulfamethazine 1 - 3 x every other day; Banamine™ daily as necessary. 2nd treatment -Baytril™ (enrofloxacin) 1x, 3rd treatment Nuflor™ (florfenicol) 1x, 4th treatment Excede™ (ceftiofur)	
Anaplasmosis	LA-200™ (Sustained release oxytetracycline) 1-3x every other day, or Oxytetracycline 3x daily	
Pinkeye	Nuflor™ (florfenicol), 2nd treatment LA-200™ (sustained release oxytetracycline) & Patch 1x	
Coccidiosis	Long acting sulfamethazine 3x every other day; treat group with preventive, if necessary, such as Corid™, Bovatec™, Decox™, and/or Rumensin™	
Abscesses	Drain/Flush/Betadine™ or Nolvasan™ topical/Fly-repellant/PPG if necessary	
Foot Rot	Nuflor™(Florfenicol), 2nd treatment LA-200™ (sustained release oxyteracycline), or 3rd treatment Oral Sulfa/PPPG	
	<b>The herd manager, in consultation with the attending 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 cl</b>	
	<b>Epinephrine Rx should be on hand for anaphalactic shock.</b>	
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<b>COWS (Fall Calvers):</b>		<u>Month</u>
<b>General:</b>	Provide supplemental selenium to all cows by injection, boluses or supplemental feeding	
<b>Prophylaxis:</b>		
PreBreeding vaccination	If open - Modified Live vaccine - BVD, IBR, PI3, BRSV + Vibrio/Lepto 5-way + (Spirovac™)	<b>Nov.</b>
Annual Re-vaccination	Clostridial 8-way	<b>Nov/Dec</b>
Anthelmintics	Dectomax™, Ivomec™ +, or Valbazen™ (Rotation suggested)	<b>May</b>
Calf Scours	If pregnant - E. coli, Rota virus, Corona virus vaccine (Scourguard™) (Only in years following high incidence of calf scours)	<b>Prior to calving</b>
<b>Treatments:</b>		
Anaplasmosis	LA-200™ (Sustained release oxytetracycline) 1-3x every other day, or Oxytetracycline 3x daily (Only if cattle can be restrained without overexciting them)	
Foot Rot	Clean Wound/Oral Sulfa/PPG,Nuflor™ (IM), Banamine™	
Pinkeye	Eye patch 1x/Florfenicol (Nuflor™) if needed, Banamine™	
Pneumonia	Florfenicol (Nuflor™), Ceftiofur (Excede™)	
<b>Calving:</b>		
Dystocia	Assist as necessary; most difficult cases to VMTH in Davis	
Prolapse	1. "Shrink" Tissue w/powdered sugar 2. Re-place tissue 2a. Epidural - Lidocaine™ 3. Pin vulva if necessary 4. Administer systemic penicillin Retreat as needed 5. Remove pins 6. Cull cow and, where possible, offspring	
<b>Metritis &amp;</b>		
Retained Placenta	1. Systemic Penicillin 2. Administer Lutalyse™ Repeat steps 1 & 2 as needed	
<b>Pregancy Exam:</b>		
	45 days after bulls removed from cows	<b>Post Wean</b>
	If substantial abortion problem, boost w/modified live vaccine - BVD,IBR,Pis,BRSV + Vibrio/Lepto 5 way + (Spirovac™)	
	<b>The herd manager, in consultation with the attending 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 cl</b>	
	<b>Epinephrine Rx should be on hand for anaphalactic shock.</b>	
	<b>Mineral supplements (including selenium) will be provided year round to ALL animals.</b>	
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<b>COWS (Spring Calvers):</b>		<u>Month</u>
<b>General:</b>	Provide supplemental selenium to all cows by injection, boluses or supplemental feeding	
<b>Prophylaxis:</b>		
PreBreeding vaccination	If open - Modified Live vaccine - BVD, IBR, PI3, BRSV + Vibrio/Lepto 5-way + (Spirovac™)	<b>May</b>
Annual Re-vaccination	Clostridial 8-way	<b>May/June</b>
Anthelmintics	Dectomax™, Ivomec™ +, or Valbazen™ (Rotation suggested)	<b>Nov.</b>
Calf Scours	If pregnant - E. coli, Rota virus, Corona virus vaccine (Scourguard™) (Only in years following high incidence of calf scours)	<b>Prior to calving</b>
<b>Treatments:</b>		
Anaplasmosis	LA-200™ (Sustained release oxytetracycline) 1-3x every other day, or Oxytetracycline 3x daily (Only if cattle can be restrained without overexciting them)	
Foot Rot	Clean Wound/Oral Sulfa/PPG,Nuflor™ (IM), Banamine™	
Pinkeye	Eye patch 1x/Florfenicol (Nuflor™) if needed, Banamine™	
Pneumonia	Florfenicol (Nuflor™), Ceftiofur (Excede™)	
<b>Calving:</b>		
Dystocia	Assist as necessary; most difficult cases to VMTH in Davis	
Prolapse	1. "Shrink" Tissue w/powdered sugar 2. Re-place tissue 2a. Epidural - Lidocaine™ 3. Pin vulva if necessary 4. Administer systemic penicillin Retreat as needed 5. Remove pins 6. Cull cow and, where possible, offspring	
Metritis & Retained Placenta	1. Systemic Penicillin 2. Administer Lutalyse™ Repeat steps 1 & 2 as needed	
<b>Pregancy Exam:</b>		
	45 days after bulls removed from cows	<b>Post Wean</b>
	If substantial abortion problem, boost w/modified live vaccine - BVD,IBR,Pis,BRSV + Vibrio/Lepto 5 way + (Spirovac™)	
	<b>The herd manager, in consultation with the attending 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 cl</b>	
	<b>Epinephrine Rx should be on hand for anaphalactic shock.</b>	
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<b><u>Bulls</u></b>		<b><u>Month</u></b>
<b>General:</b>	Provide supplemental selenium to all bulls by injection, boluses or supplemental feeding	
<b>Prophylaxis:</b>		
PreBreeding	Modified Live Virus vaccine - BVD, IBR, PI3, BRSV + Vibrio/Lepto 5-way + Spirovac™	<b>Dec.</b>
	Clostridial 8-way	<b>Dec.</b>
Anthelmintics	Valbazan™/Ivomec Plus™/Dectomax™ (Rotation suggested)	<b>May</b>
Reproductive	Tract exam and semen test (BSE), Tritrichomonas testing	<b>Nov.-Dec.</b>
<b>Treatment:</b>		
Anaplasmosis	LA-200™ (Sustained release oxytetracycline) 1-3x every other day, or Oxytetracycline 3x daily (Only if cattle can be restrained without over exciting them)	
Foot Rot	Clean Wound/Oral Sulfa/PPG,Nuflor™ (IM), Banamine™	
Pinkeye	Eye patch 1x/Florfenicol (Nuflor™) if needed, Banamine™	
<b><u>REPLACEMENT HEIFERS (Fall Calvers):</u></b>		
<b>General:</b>	Provide supplemental selenium to all heifers by injection, boluses or supplemental feeding	
<b>Prophylaxis:</b>		
PreBreeding	Modified Live Vaccine - BVD, IBR, PI3, BRSV + Vibrio/Lepto 5-way + Spirovac™	<b>Oct.</b>
Booster	Modified Live Vaccine - BVD, IBR, PI3, BRSV + Vibrio/Lepto 5-way + Spirovac™	<b>Nov.</b>
Booster	Clostridial 8- way	<b>Oct/Nov.</b>
Reproductive	Tract score - DVM	<b>Dec.</b>
<b><u>REPLACEMENT HEIFERS (Spring Calvers):</u></b>		
<b>General:</b>	Provide supplemental selenium to all heifers by injection, boluses or supplemental feeding	
<b>Prophylaxis:</b>		
PreBreeding	Modified Live Vaccine - BVD, IBR, PI3, BRSV + Vibrio/Lepto 5-way + Spirovac™	<b>April</b>
Booster	Modified Live Vaccine - BVD, IBR, PI3, BRSV + Vibrio/Lepto 5-way + Spirovac™	<b>May</b>
Booster	Clostridial 8- way	<b>April/May</b>
Reproductive	Tract score - DVM	<b>June</b>
	<b>The herd manager, in consultation with the attending 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 cl</b>	
	<b>Epinephrine Rx should be on hand for anaphalactic shock.</b>	
	<b>Mineral supplements (including selenium) will be provided year round to ALL animals.</b>	
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<b><i>HORSES</i></b>		<b>Month</b>
<b>Vaccinations</b>	5-Way - E/W Encephalomyelitis, Rhinopneumonitis EHV1 & EHV4, Influenza type A2, and Tetanus (need booster 3-4 weeks after 1st vaccine)	<b>February - 1x a year</b>
	West Nile - 2x a year (need booster 3-4 weeks after 1st vaccine)	<b>February and August</b>
	Rabies	<b>1x a year</b>
<b>Anthelmintics</b>	Pyrantel Pamoate	<b>August and February</b>
	Ivermectin	<b>October and April</b>
	Benzimidazole	<b>December and June</b>
	<b>The herd manager, in consultation with the attending 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.</b>	
	<b>Epinephrine Rx should be on hand for anaphalactic shock.</b>	
	<b>Free choice salt provided.</b>	
	<b>Mineral supplements will be provided year round to ALL animals.</b>	
	<b>Diagnosis of unknown causes of death or illness:</b>	
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