# Vaccine Protocols for the Cow Calf Producer of Central California

2017 Southern San Joaquin Livestock Symposium Dr. Lindsey Eby & Dr. James DeGroot La Osa Veterinary Services

### Customize Your Protocol

- One vaccine protocol does not fit everyone's needs!
- What are your goals?
- What is your risk?
- Talk to your vet!

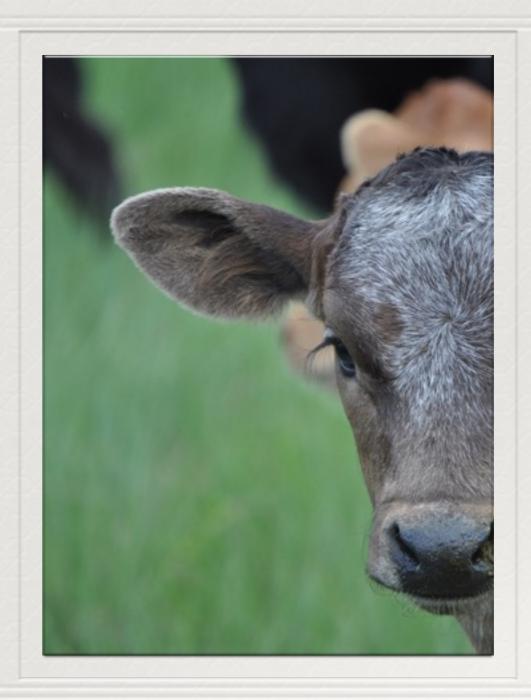


# Risk Benefit Analysis

- Risk of NOT vaccinating \$\$ lost with tx/labor cost, poor repro/gain performance
- Risk of vaccination labor costs, vx cost, injury, stress...
- Benefit of NOT vaccinating decrease labor, vaccine cost, less facility costs
- Benefit of vaccination Disease prevention = \$\$\$\$ saved, cattle get handled more frequently, increase management decisions, better performance, healthier calves = more \$\$\$

# What issues do you have in your herd?

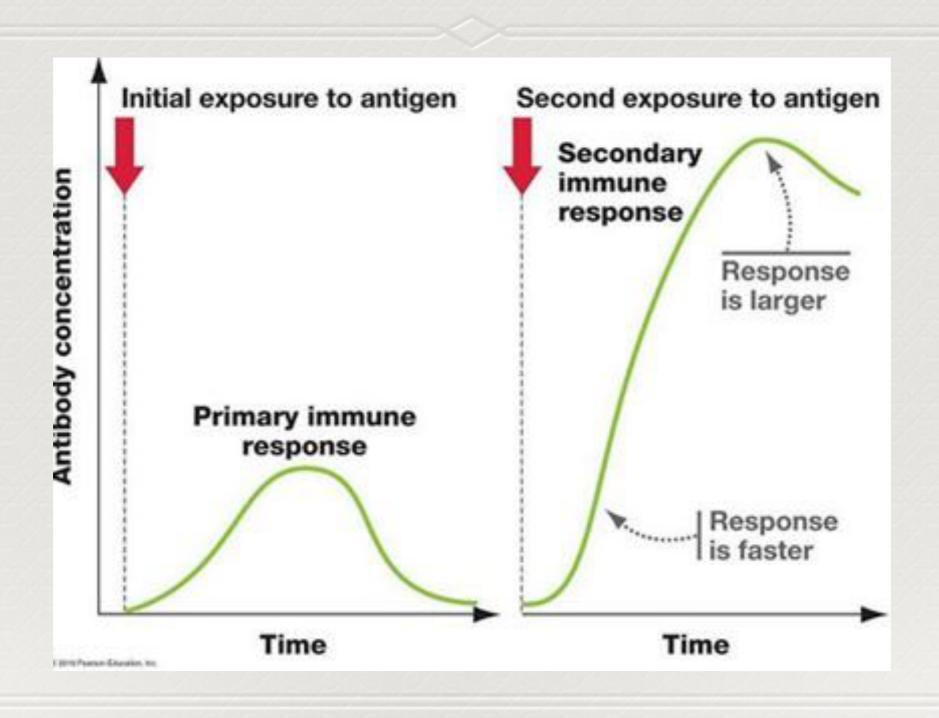
- Abortions
- Poor pregnancy rates
- Neonatal diarrhea scours
- Respiratory disease
- Pinkeye outbreaks
- Initial diagnostics can impact your prevention program

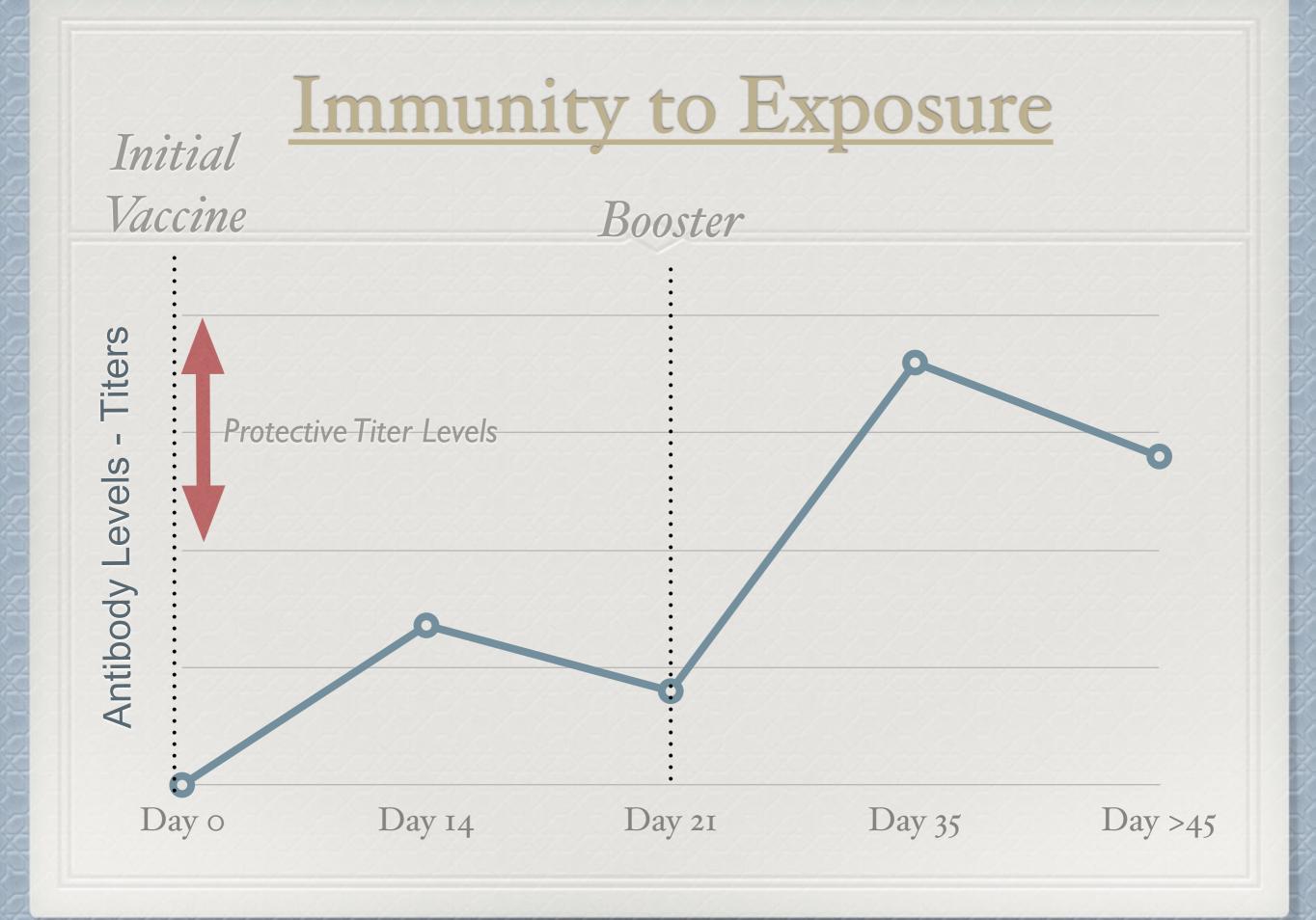


# How do vaccines stimulate the immune system?

Killed
Modified Live
Live
Toxoid

#### Vaccines that need a booster



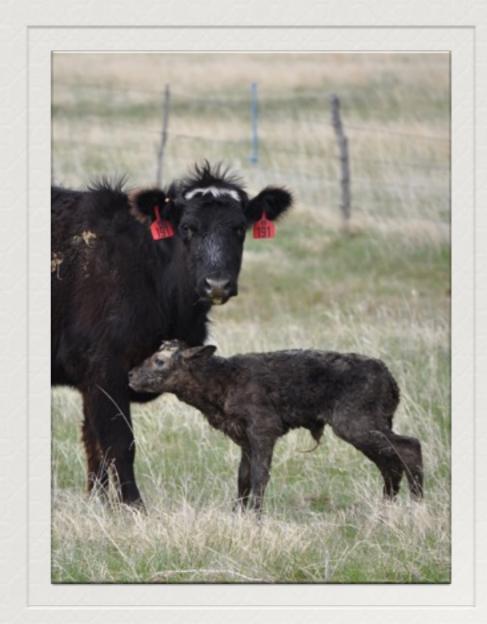




### It all starts with MOM

- The success of yourvaccination program startswith the dam.
- Adequate colostrum intake will provide 8-14 weeks of protection to the calf if she is properly immunized.

(calves under 70 lb. need 2-3 quarts within the first 6 hours and a total of 4-6 quarts within 12 hours.)



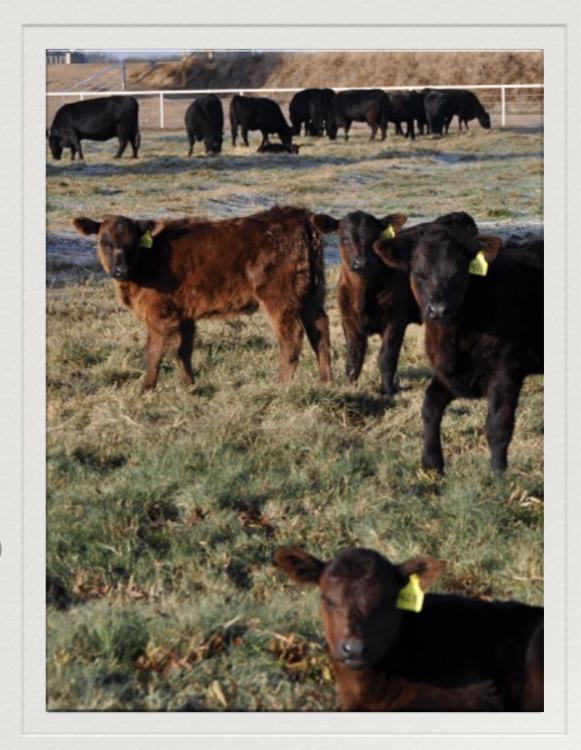
#### So... if neonatal diarrhea is an issue

- Passive Transfer of Immunity
  - By immunizing the dam prior to calving we can prepare the calf for E. coli, Rota & Corona Viruses through adequate colostrum intake.
  - 1st calf heifers or naive cows need 2 doses 3 weeks apart with last dose 3-6 weeks prior to calving.
  - Previously vaccinated cows need one booster 3-6 weeks prior to calving.
- Always follow the label of the product you are using!

#### Calf Vaccines

2-4 months of age (branding)

- Clostridium 7,8 or 9 way
- Respiratory viral: IBR, PI3, BRSV, BVDV, (intra nasal vs. injectable)
- Respiratory bacterial: manheimia, pasteurella, h. somi (intra nasal vs. injectable)
- Pinkeye (autogenous vs. comercial)

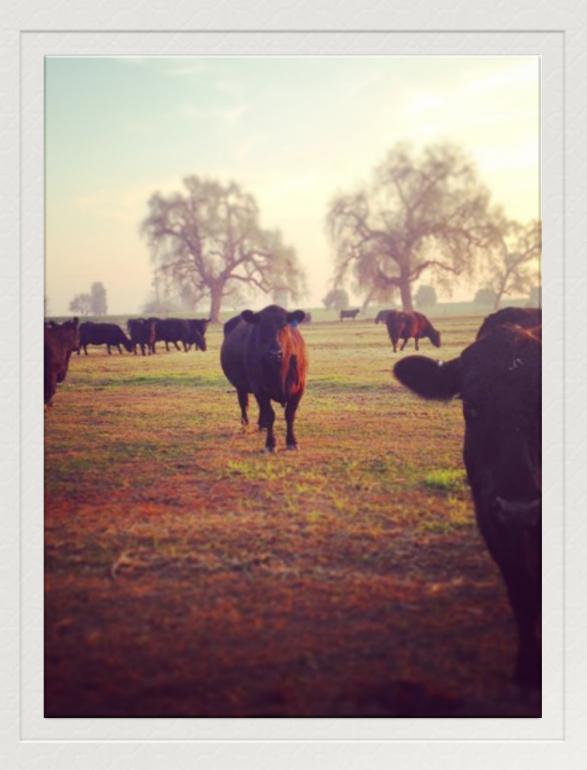


# Calf 2-4 months

- Calves start to co-mingle, rumination begins and males are usually castrated.
- Maternal antibodies are starting to die off and calf has to create it's own immunity either through exposure or immunizations.
- Calf energy demands are high due to growth.
- Maternal antibody interference with vaccination

# Pre-weaning/ weaning 5-9 months of age

Clostridium 7,8 or 9 way
Viral Respiratory - IBR,BVD,PI3,BRSV
Bacterial Respiratory - Mannheimia,
Pasteurella and H. somni
Pink Eye (commercial vs. autogenous)
Leptospirosis



# Pre-weaning/ Weaning

- Maternal antibodies are no longer protective against diseases
- Goal is to provide them with immunity before they experience the following...
  - Stress
  - Movement/shipment
  - Co-mingling with new cattle in small space
  - Feedlot cattle liver abscesses due to C. haemolyticum (red water)
  - Liver flukes
  - Vector diseases (flys and ticks)
  - Foxtails

#### Heifers

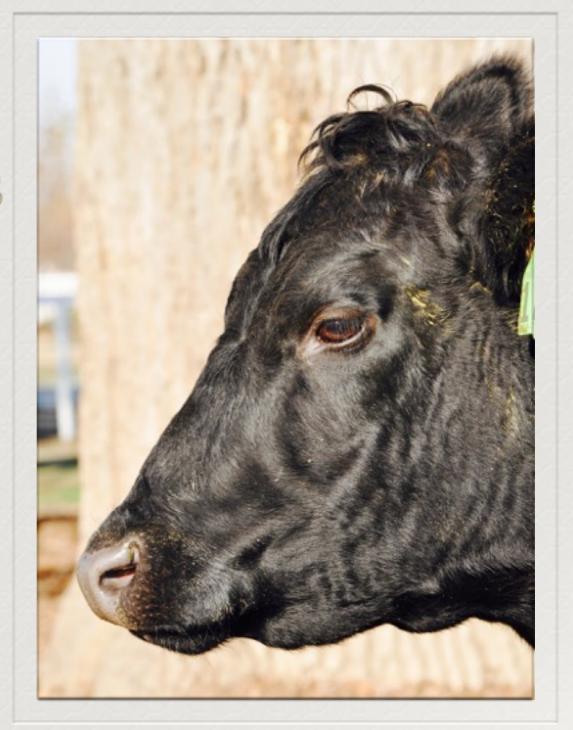
Bangs (brucellosis) 4-12 months
EBA "foothill abortion" - at least 60 days prior to breeding.
Anaplasmosis -

- \*Anavac live culture must vx 4-11 months of age becomes an immune carrier.
- \* CCA killed product can give later but initally needs 2 doses. Does not prevent infection but rather gives them a fighting chance before becoming an immune carrier.

# Pre-breeding Replacement Heifers

Modified Live! - 2 doses with last dose > 30 days prior to breeding.

IBR,BVD,PI3,BRSV (viruses)
Lepto (includes L. hardjo bovis) (spirochete)
Campylobacter Fetus "V" (bacteria)
Histophilus Somni (bacteria)
Clostridium - 7,8 or 9 way (bacteria)

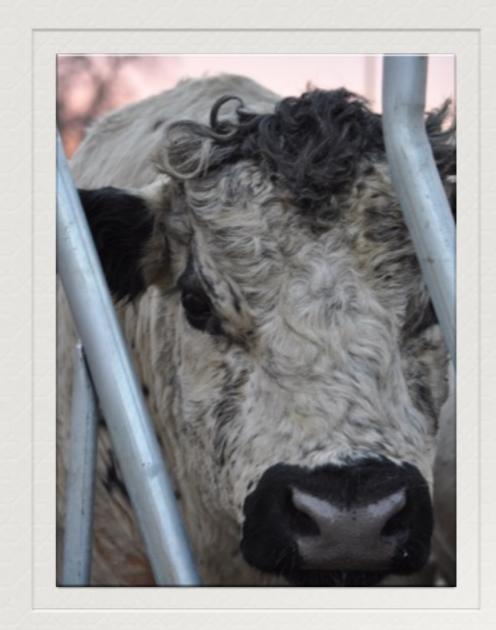


# Pre-breeding Replacement Heifers

- Prevention of...
  - Illness/Disease
  - Abortions
- Maximize growth/Feed efficiency
- Give birth to strong healthy calves

## Bulls Annual Vaccine

- ₱ IBR, BVD,PI3,BRSV
- Lepto
- Campylobacter fetus aka Vibriosis "V"
- Mannheimia, Pasteurella and H. somni
- Clostridium 7,8, or 9 way
- Anaplasmosis CCA killed
- Pinkeye

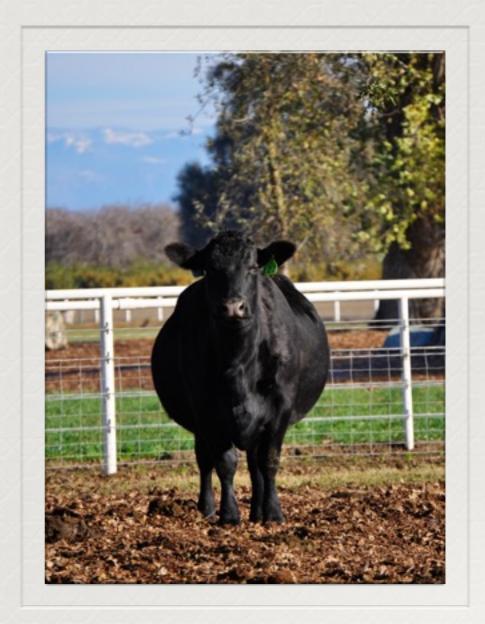


#### Bulls Annual Vaccines

- Sick bulls do not make babies decreased libido
- Vibriosis is a veneral disease and can cause cows to abort/poor fertility
- Keep bulls healthy when adding new animals to the herd.
- Pinkeye eyesight is very important for bulls to find cows in heat/estrus

## Cows Annual Vaccines

- ♣ IBR, BVD, PI3, BRSV
- Lepto
- Campylobacter Fetus "V"
- Mannheimia, Pasteurella and H. somni
- Clostridium 7,8 or 9 way
- Anaplasmosis CCA killed
- Pinkeye
- Rota/Corona Virus + E. coli precalving

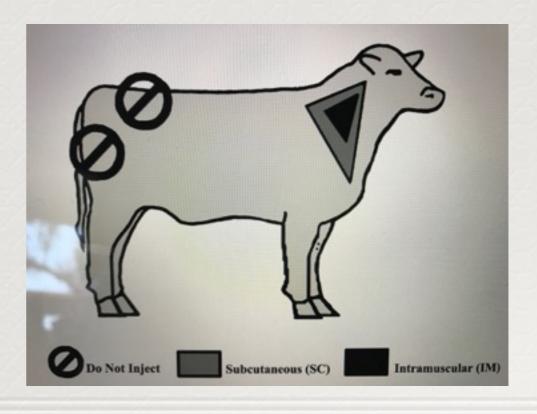


# Cows Annual Vaccines

- \* Keep her immunity to disease high and prevent abortions!
- Maximize feed efficiency
- Set her up to provide quality colostrum
  - Calves who receive adequate passive transfer of antibodies through colostrum are set up for success
  - Calves who have failure or partial failure of passive transfer are at a much greater risk of...
    - Disease
    - Death
    - Decreased gains

# Don't Forget

- Follow the label
- Throw away unused reconstituted product
- Vaccine handling
- Meat withdrawal times
- Beef Quality Assurance



# Questions?

Email - <u>LaOsaVS@gmail.com</u>

Dr. James De Groot - (559) 972-3273

Dr. Lindsey Eby - (970) 310-7278

