



EXTENSION

# RANCHER'S THURSDAY LUNCHTIME SERIES

## Vac 45 Program Opportunities and Considerations

---

Join our Beef Cattle Extension team, experienced livestock marketers and ranchers to learn and share beef cattle production, management and marketing tips.

- ▶ **Thursday, May 14, 2020** | 12:30 - 1:00 p.m.  
Vac 45 Program Health and Management Influence on Calf Prices  
- Kellie Raper, Extension Livestock Marketing Specialist
- ▶ **Thursday, May 21, 2020** | 12:30 - 1:00 p.m.  
Considerations in Herd Health Programs Designed for Vac 45 Certification  
- Rosslyn Biggs, Beef Cattle Extension Specialist
- ▶ **Thursday, May 28, 2020** | 12:30 - 1:00 p.m.  
Nutritional Programs and Implants for Vac 45 Programs  
- Paul Beck, Extension Livestock Specialist
- ▶ **Thursday, June 4, 2020** | 12:30 - 1:00 p.m.  
Putting it Together: Budget and Breakeven Projections for Fall 2020  
- David Lalman, Extension Beef Cattle Specialist
- ▶ **Thursday, June 11, 2020** | 12:30 - 1:00 p.m.  
Marketing Vac 45 Cattle: What We Have Learned the Last 20 Years  
- Bill Barnhart, Oklahoma City West Livestock Market  
- David Cantrell, Rancher and Extension Educator
- ▶ **Thursday, June 18, 2020** | 12:30 - 1:00 p.m.  
Steps to Certify and Market Your Calves Through the Oklahoma Quality Beef Network  
- Jeff Robe, Oklahoma Quality Beef Network Coordinator

## LIVE WEBINARS

- ▶ **Register Online:**  
[dasnr.zoom.us/meeting/register/tJAvd-yrrjMrGNEAuaK6dkost\\_a4uGLSUEn\\_](https://dasnr.zoom.us/j/9217732121)

## CONTACT

- ▶ **David Lalman**  
Extension Beef Cattle Specialist  
david.lalman@okstate.edu  
405-744-6060

---

# Herd Health Programs Designed for Vac45 Certifications

---

Rosslyn Biggs, DVM

Beef Cattle Extension Specialist

Director of Continuing Education

May 21, 2020



**EXTENSION**



COLLEGE OF  
**VETERINARY MEDICINE**

---

# Poll 2: Herd Health 1

- Are you currently participating in a Vac45 certification program?
- Have you previously participated in OQBN Vac45 program?
- Do you plan to participate in the OQBN Vac45 program in the future?



**EXTENSION**



**COLLEGE OF  
VETERINARY MEDICINE**

# VAC45 Preconditioning Protocols

- A “typical” VAC45 program includes
  - Vaccination protocol
  - Castrated and healed
  - Polled genetics or dehorned and healed
  - Parasite control
  - Minimum 45 day weaning period
  - Bunk training



**EXTENSION**



**COLLEGE OF  
VETERINARY MEDICINE**

# Objectives

- Veterinary Relationship
- Vaccinations
- Parasite Control
- Therapeutic SOPs



**EXTENSION**



**COLLEGE OF  
VETERINARY MEDICINE**

---

# Poll 3: Herd Health 2

Do you currently have a valid veterinary client patient relationship?



**EXTENSION**



COLLEGE OF  
**VETERINARY MEDICINE**

# Veterinary-Client-Patient-Relationship:Oklahoma Practice Act Definition

- a. the licensed **veterinarian** has assumed the **responsibility** for making medical judgments regarding the health of an animal or animals and the need for medical treatment, and the **client**, owner or other caretaker has agreed to follow the **instructions** of the licensed veterinarian; and
- b. there is sufficient **knowledge** of the animal or animals by the licensed veterinarian to initiate at least a general or preliminary diagnosis of the medical condition of the animal or animals in that:
  - 1. the licensed veterinarian has **recently seen** or is personally acquainted with the keeping and care of the animal or animals, or
  - 2. the licensed veterinarian has made medically necessary and timely **visits** to the premises where the animal or animals are kept or both, and
- c. the licensed veterinarian is readily available for **follow-up** in case of adverse reactions or failure of the regimen of therapy, or has arranged for emergency medical coverage, and
- d. the licensed veterinarian's actions would conform to applicable federal law and regulations.



**EXTENSION**



COLLEGE OF  
**VETERINARY MEDICINE**

# Protocol Choice and Your Veterinarian

- Operation Goals
  - Current herd health status
  - Disease risk for your area
  - Economics
  - Purebred/Seedstock
  - Marketing plan



EXTENSION



COLLEGE OF  
VETERINARY MEDICINE



# Protocol Choice and Your Veterinarian



## ■ Logistics

- ❑ Location of processing
- ❑ Timing of processing
- ❑ Medication purchases
- ❑ SOPs



**EXTENSION**



**COLLEGE OF  
VETERINARY MEDICINE**

---

# Poll 4: Herd Health 3

- Are you currently vaccinating your cow herd?
- Which of the following vaccines do you give to your breeding animals?
- If you are administering respiratory vaccines to your cow herd, which of the following are you using?



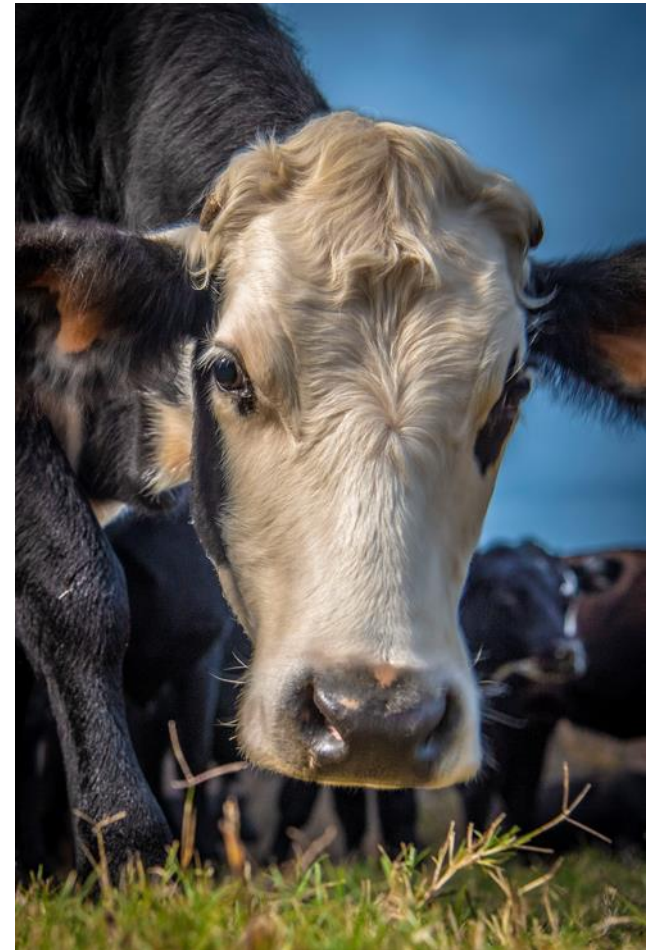
**EXTENSION**



**COLLEGE OF  
VETERINARY MEDICINE**

# Vaccine Protocols-One Size Fits All?

- Minimum Recommendations for most Vac45 programs-calves
  - Respiratory Viruses
    - IBR
    - PI3
    - BVDV I&II
    - BRSV
  - Clostridial
    - 7 way/8 way/9 way
    - Tetanus
  - Pasteurella
    - *M. haemolytica*
    - *P. multocida*



# Vaccine Protocols

- READ THE LABEL!
- Keep Records
- Product Brand
- Type
- Bottle Size
- Follow BQA Guidelines



# Vaccine Protocols

- Effective Protection
- Killed vs. Modified Live
- Expiration Dates
- Temperature Maintenance
- UV Light

## Refrigerated Vaccines



EXTENSION



COLLEGE OF  
VETERINARY MEDICINE

# Handling Vaccines



**Purchase as close to processing time as possible**



**Buy from reputable sources**



**Read vaccine labels**



**Use a refrigerator thermometer**



**Use reconstituted vaccines within the hour**



**Use caution when cleaning reusable syringes**



**EXTENSION**



**COLLEGE OF  
VETERINARY MEDICINE**

# Vaccination Timing For Calves

## ■ First Round

- Branding (2-3 months of age)
- Pre-weaning (2-5 weeks prior)
- Weaning

## ■ Second Round

- Pre-Weaning
- Weaning
- Post-weaning



---

# Poll 5: Herd Health 4

- When are you giving the first set of vaccinations to your calves?
- When are you giving the second set of vaccinations to your calves?



**EXTENSION**



**COLLEGE OF  
VETERINARY MEDICINE**



# Vaccination Timing For Calves

- QQBN Data
  - Branding and Weaning
  - Weaning and Post-weaning



# Parasite Control

## ■ Internal Parasites

- Injectable
- Oral
- Pour On

## ■ External Parasites

- Pour On
- Tag
- Others
  - IGR
  - Sprays
  - Cattle Rubs



# Disease Treatment SOPs



- Discuss in advance
- Develop plan
- Annual review with veterinarian
- Training
- Accessible medications for common illness
  - Respiratory
  - Bloat
  - Lameness
  - Others



**EXTENSION**



**COLLEGE OF  
VETERINARY MEDICINE**

# Disease Treatment SOPs

## Respiratory Disease

- Assessing illness
- Diagnostics
- Antibiotics administration
- Anti-inflammatory administration
- Retreating
- Necropsy



**EXTENSION**



**COLLEGE OF  
VETERINARY MEDICINE**

# Costs

- Respiratory Vaccine ~ \$2-\$3
- Clostridial Vaccine ~ \$1-\$2
- Deworming ~ \$1
- External Parasite Pour On ~ \$1
- Fly Tag ~ \$1
- Implant ~ \$2-\$3
- Castration ~ \$5
- Dehorning ~ \$5-\$10
- Other Variables
  - Processing location/Chute fees/Trip charges
  - Group size/calf weight
  - Facility quality
  - Personnel costs



# Probability of Positive Returns for Various Management Practices

Practice Adopted	Net Returns (\$/cwt)	Probability of Positive Returns
Weaned	\$5.13	0.59
Vaccinated	\$6.01	0.64
Dehorned	\$6.31	0.59
Weaned and Vaccinated	\$5.36	0.59
Weaned, Vaccinated, and Dehorned	\$10.98	0.67
Weaned, Vaccinated, Dehorned, and Certified	\$12.90	0.79

Source: Williams, et al (2014)

Data Source: Oklahoma Livestock Auctions



**EXTENSION**



COLLEGE OF  
**VETERINARY MEDICINE**

# Resources



Picture courtesy: Dr. Katie Blunk

- OSU Beef Cattle Manual
- Don't Forget Your Veterinarian



**EXTENSION**



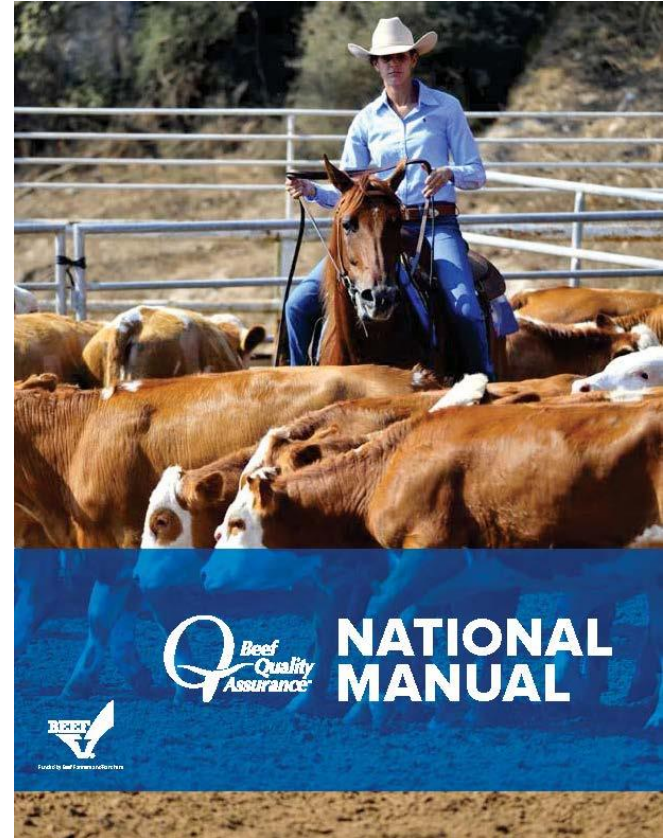
**COLLEGE OF  
VETERINARY MEDICINE**

# Beef Quality Assurance Resources

[www.bqa.org](http://www.bqa.org)

BECOME CERTIFIED OR RENEW

- Carcass Quality and Composition
- Cattle Care
- Herd Health
- Biosecurity
- Nutrition
- Record Keeping
- Transportation
- Environmental Stewardship
- Worker Safety
- Emergency Action Planning



**EXTENSION**



**COLLEGE OF  
VETERINARY MEDICINE**



# OQBN

## VAC-45 SALES

[oqbn.okstate.edu](http://oqbn.okstate.edu)



## Requirements

- Home Raised
- Vaccination Protocol (3 Options)
- Castrated and healed
- Dehorned and healed
- Weaned at **LEAST** 45 days
- BQA guidelines followed
- Program compliant tag
- Verification of requirements
  - 3<sup>rd</sup> party (OSU)



**OKLAHOMA QUALITY  
BEEF NETWORK**

OSU Extension



# Rosslyn Biggs, DVM

Assistant Clinical Professor  
Beef Cattle Extension Specialist  
Director of Continuing Education

**O** | 405.744.8587

**C** | 405.201.9127

**E** | rosslyn.biggs@okstate.edu

002B Veterinary Teaching Hospital

[vetmed.okstate.edu](http://vetmed.okstate.edu)



**EXTENSION**



COLLEGE OF  
**VETERINARY MEDICINE**



**EXTENSION**

# RANCHER'S THURSDAY LUNCHTIME SERIES

## Vac 45 Program Opportunities and Considerations

---

Join our Beef Cattle Extension team, experienced livestock marketers and ranchers to learn and share beef cattle production, management and marketing tips.

- ▶ **Thursday, May 14, 2020** | 12:30 - 1:00 p.m.  
Vac 45 Program Health and Management Influence on Calf Prices  
- Kellie Raper, Extension Livestock Marketing Specialist
- ▶ **Thursday, May 21, 2020** | 12:30 - 1:00 p.m.  
Considerations in Herd Health Programs Designed for Vac 45 Certification  
- Rosslyn Biggs, Beef Cattle Extension Specialist
- ▶ **Thursday, May 28, 2020** | 12:30 - 1:00 p.m.  
Nutritional Programs and Implants for Vac 45 Programs  
- Paul Beck, Extension Livestock Specialist
- ▶ **Thursday, June 4, 2020** | 12:30 - 1:00 p.m.  
Putting it Together: Budget and Breakeven Projections for Fall 2020  
- David Lalman, Extension Beef Cattle Specialist
- ▶ **Thursday, June 11, 2020** | 12:30 - 1:00 p.m.  
Marketing Vac 45 Cattle: What We Have Learned the Last 20 Years  
- Bill Barnhart, Oklahoma City West Livestock Market  
- David Cantrell, Rancher and Extension Educator
- ▶ **Thursday, June 18, 2020** | 12:30 - 1:00 p.m.  
Steps to Certify and Market Your Calves Through  
the Oklahoma Quality Beef Network  
- Jeff Robe, Oklahoma Quality Beef Network Coordinator

## LIVE WEBINARS

- ▶ **Register Online:**  
[dasnr.zoom.us/meeting/register/tJAvd-yrrjMrGNEAuaK6dkost\\_a4uGLSUEn\\_](https://dasnr.zoom.us/j/9448214869)

## CONTACT

- ▶ **David Lalman**  
Extension Beef Cattle Specialist  
david.lalman@okstate.edu  
405-744-6060