

Examination of the Integumentary System and Mammary Gland

SAND2011-4106C



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SAND # 2011-4001 C

 International
BIOLOGICAL THREAT REDUCTION



Examination from Afar: Integumentary System

- **Information collected during an examination from a distance**

- General body condition
- Pruritus
 - Distribution
- Alopecia
- External lesions
 - Erosions
 - Nodules
 - Pustules
- Lameness

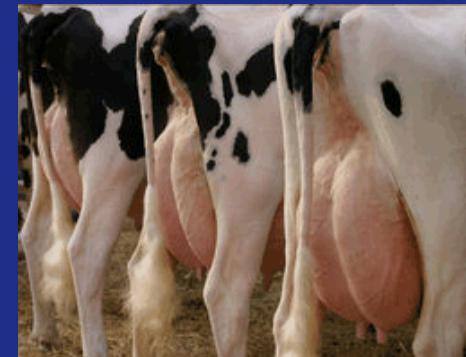




Examination from Afar: Mammary Gland

- **Information collected during an examination from a distance**

- General body condition
- Mentation
- Respiratory rate
- Udder confirmation
- Redness of the mammary gland
- Mammary gland lesions
- Mammary gland symmetry
- Distention





Collecting a Meaningful History: Integumentary System

- **Historical information related to the evaluation of the genitourinary system**
 - Duration of illness
 - Pruritus
 - Alopecia
 - Skin lesions
 - Vaccinations
 - Previous treatments
- **Historical information related to the herd**
 - Other animals affected
 - Duration and similarities of signs
 - Deaths associated with the illness
 - Changes in food and/or water
 - New additions to the herd





Collecting a Meaningful History: Udder

- **Historical information related to the evaluation of the genitourinary system**
 - Duration of illness
 - Date of calving
 - Milk production
 - Nursing history
 - History of mastitis
 - Food/water consumption
 - Vaccinations
 - Previous treatments
- **Historical information related to the herd**
 - Other animals affected
 - Duration of signs
 - Similarity of signs
 - Deaths associated with the illness
 - Changes in food and/or water
 - New additions to the herd



Examination: Integumentary System



- **Mucous membranes**

- Color
- Ulceration



- **Skin examination**

- Crusts
- Pustules
- Nodules
- Erosions
- Vesicles
- Wheals



- **Hoof**

- Interdigital space
- Heels
- Coronary band

- **Lymph nodes palpation**





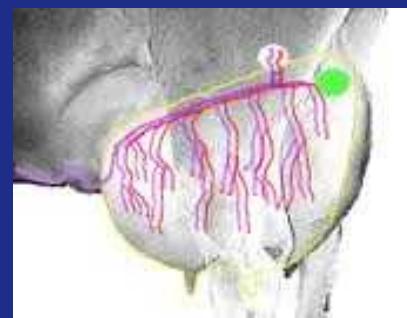
Examination: Udder

- **Udder palpation**

- Heat
- Consistency
- Induration
- Symmetry



- **Palpate lymph nodes**



- **Teat exam**

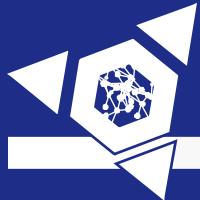
- Erosions
- Abrasions



- **Milk evaluation**

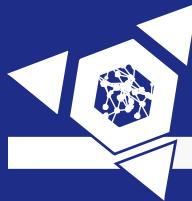
- Clean udder prior to sampling
- Consistency
- Color
- California mastitis test





Interpretation of Results: Genitourinary System

- **Abnormal findings: Integumentary system**
- **Abnormal findings: Udder**



Ancillary Tests: Integumentary System and Udder

- **Skin scrape**
- **Biopsy**
- **Microbiology**
- **Response to treatment**

- **California mastitis test**
- **Microbiology**
- **Ultrasound examination**