

**University of California**  
Agriculture and Natural Resources

Making a Difference for California



**UCDAVIS**  
**VETERINARY MEDICINE**

# Herd Health Program

## Identificacion & Examinacion de Vacas Enfermas

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Dairy Extension Specialist



# Objetivos de un Programa de Salúd del Rebaño

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- Identificar animales enfermos
- Examinar animales enfermos para reconocer lo que les esta afectando
- Tratamiento de la vaca enferma según las recomendaciones del veterinario
- Mantenga datos de las enfermedades y tratamientos

# Identificar y tratar vacas enfermas pronto

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- Reducir el costo de la enfermedad (medicamentos y leche deshechada)
- Aumenta la probabilidad de recuperarse del todo
- Mejora el bienestar animal
- Reducir las vacas eliminadas, especialmente entre las vacas frescas

# Guión

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- ¿Quién tiene que ser examinada?
- Examinación de la vaca
- ¿Qué condiciones se pueden identificar después de una detallada examinación?
- ¿Qué vacas necesitan exámenes adicionales?

**Based on Dr McGuirk UW- Madison**

**[http://www.vetmed.wisc.edu/dms/fapm/fapmtools/transition\\_cow.htm](http://www.vetmed.wisc.edu/dms/fapm/fapmtools/transition_cow.htm)**

**¿Quién tiene que ser  
examinada?**

# Lista de vacas a examinar

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Parto Difícil



Mellizos



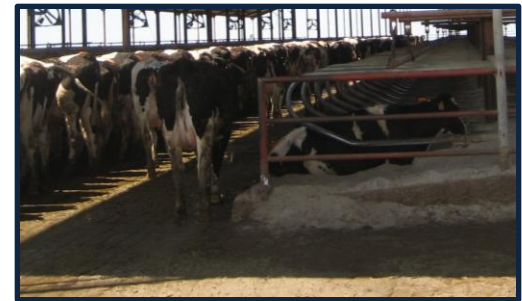
RP



Descarga Uterina Anormal



Diarrea



Vacas que no se prenden



Postura Anormal



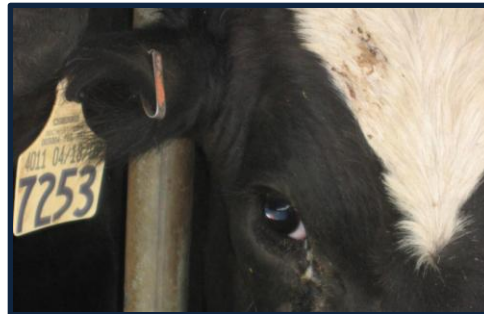
Llenado Ruminal Anormal



Deshidratada



Apetito Anormal



Descarga Ocular



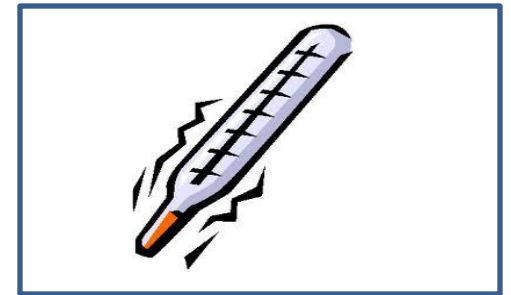
Descarga Nasal



Ubre Anormal



Bajada de Leche



Fiebre



# Identificar Vacas

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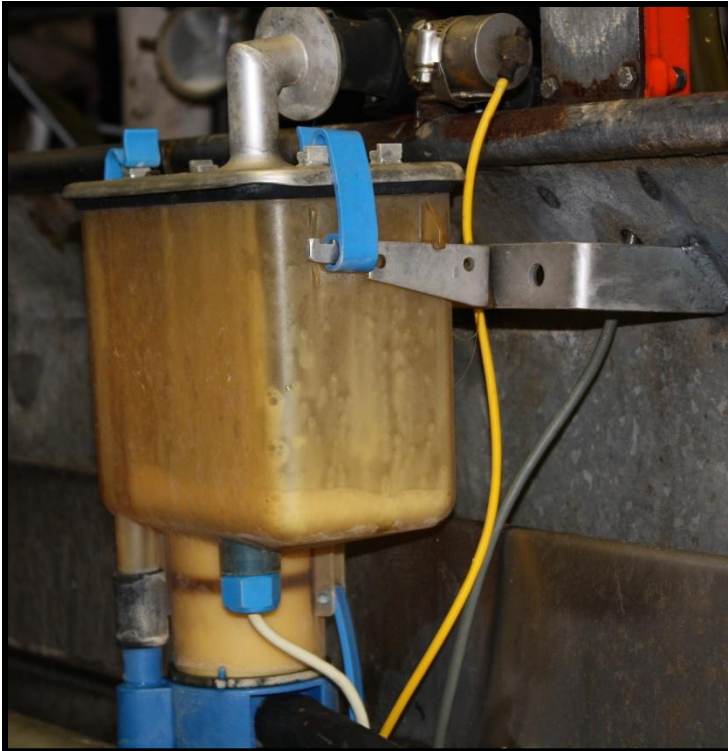
- 1. Revisar Datos**
- 2. Caminar por el corral de frescas (por el frente y por detrás)**
- 3. Observar al ordeñar, alimentar, inseminar, y mover vacas**

# 1. Revise los Datos



# Desvío en Producción de Leche

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10 lb de caída – porqué?

Produccion de leche durante los primeros 14 DEL (Overton, 2001).

Vacas - 10% incremento diario de leche

Novillas - 8% incremento diario de leche

## 2. Caminar por el corral de frescas



# Caminar al Frente



# Apetito

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- ¿Estan las vacas comiendo, escogiendo la comida o no interesadas en comer?
- Al cerrarlas, evalua si la vaca ha comido o removido la comida
- Antes de liberar las vacas, evalua si todas han comido cantidades similares a sus vecinas

# Actitud

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- ¿Están curiosas por tu presencia?
- ¿Están moviendo sus orejas?



# Orejas

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- ¿Están bajas?
- ¿Están frías?

Source: CRI Dairy Herdsman Videos

# Ojos

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- ¿Están los ojos hundidos indicando deshidratación?
- ¿Hay descargas anormales?
- ¿Hay lesiones visibles con trauma o Kerato conjuntivitis (pink eye)?

Source: CRI Dairy Herdsman Videos

# Nariz

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- ¿Hay descargas anómalas?
  - las vacas enfermas no tienen animo para limpiarse las narices
- ¿De qué color?
  - Sanguinolentas
  - Blanquecinas
  - Amarillas
  - Verdosas
- ¿Tose? – note si tose 2 o 3 veces durante la observacion
- ¿ Tiene el morro seco?

# Camine por Detrás



# Diarrea

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- Evalúe la cola y la vulva por señales de diarrea
- Evalúe si el estiércol está demasiado suelto para hacer un montón
- Fíjese en el color (oscuro) y olor (fetido)
- Acidosis, problemas digestivos, enfermedades tóxicas o enteritis.

# Descarga Vaginal Anormal

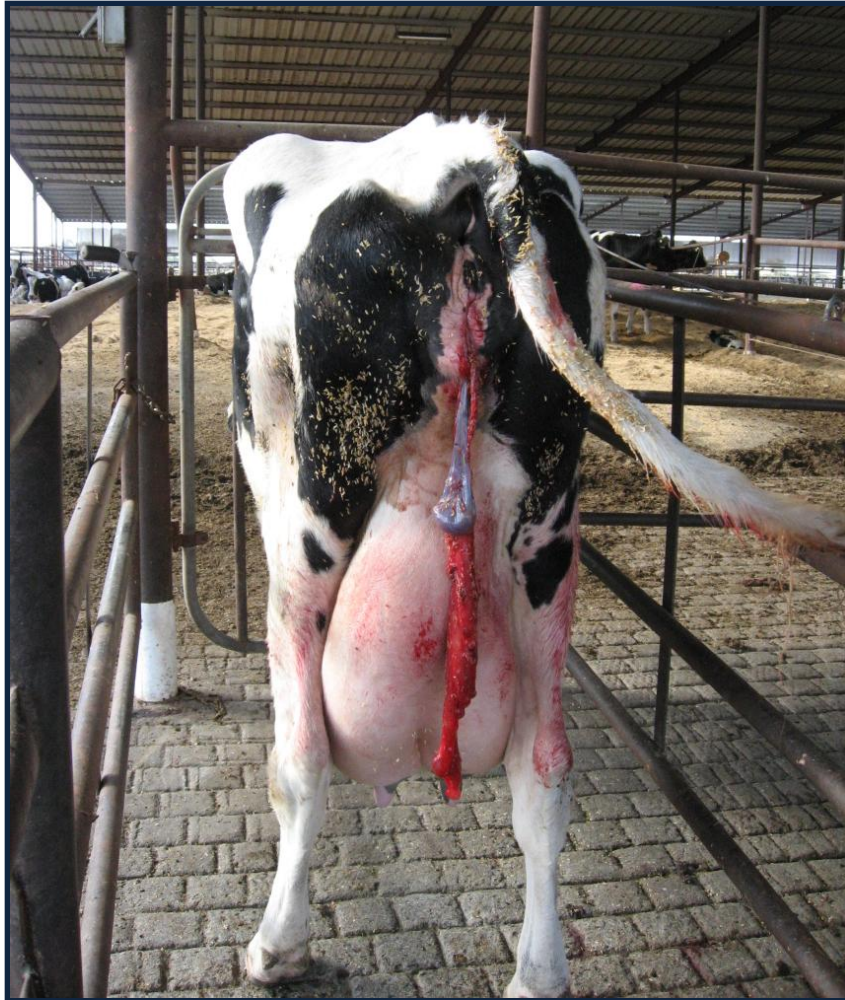
---



- ¿ Es la descarga vaginal anormal?
- ¿ Es la descarga vaginal maloliente?

# Retención de Membranas Fetales

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- No es un problema de salud, pero incrementa el riesgo de metritis.
- ¿Es la descarga vaginal mal oliente?

# Postura Anormal

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- Cola separada del cuerpo : irritación en la region perineal, vagina, recto o metritis severa.
- Abduction de los codos: dolor en la region torácica.
- Espalda arqueada: peritonitis, laminitis severa.

# Tasa de Respiración

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- Evaluar si inspirar o expirar requiere un esfuerzo
- Pnevmonia, hinchazon, enfermedades toxicas pueden causar dificultades al respirar.

# Abdomen Anormal

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- Llenado del Rumen
- Sometido en casos de anorexia



- Abdomen Distendido



Source: University of Florida

# Ubre

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- Ubre Desequilibrada
- Edema
- Corlor Abnormal (rojizo, azulado)
- Daño en Ligamentos
- Llenado de la ubre

# Vacas Que No Se Cierran

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# Revise las Camas

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**Ordeñando,  
Empujando, Inseminando  
y Alimentado a las Vacas**

# Sala de Ordeño



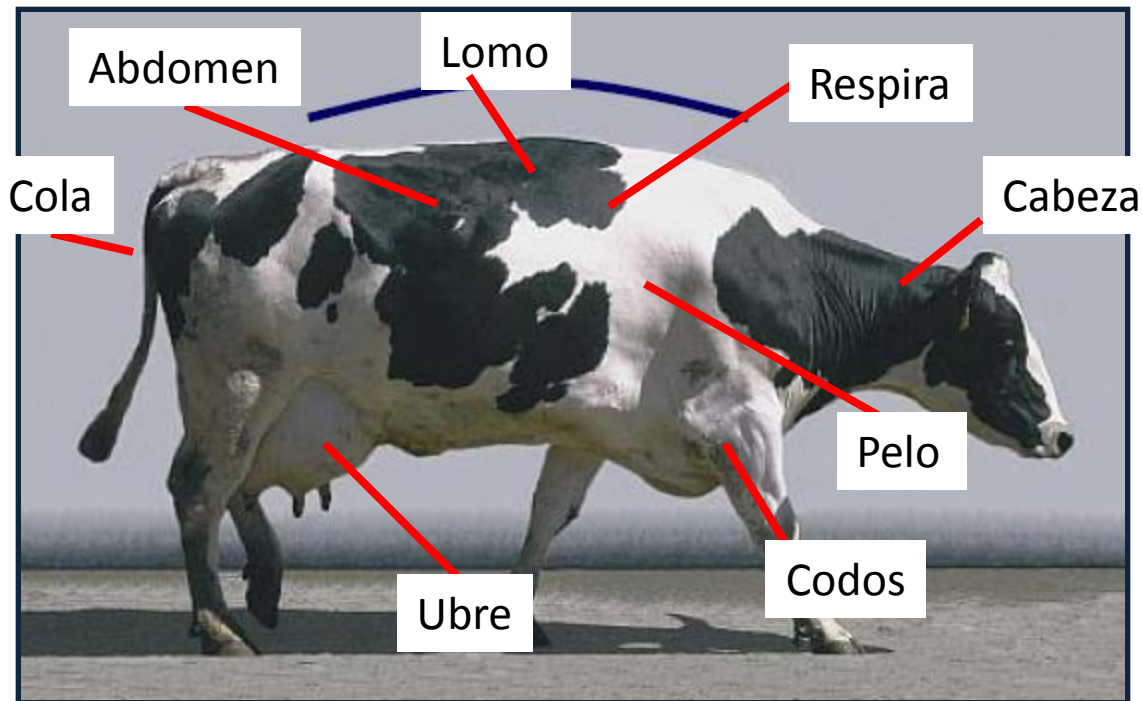
- Advierta cuarterones hinchados y descolorados
- Ubres:
  - 1 - ¿Antes de ordeño: demasiado flojas?
  - 2 - ¿Hinchadas después del ordeño?
- Descarte chorros de leche para identificar mastitis
- CMT

# Empujando Vacas



Source: CRI Dairy Herdsman Videos

# Postura y Camina Anormal



Source: Zinpro

- ¿Tiene el pelo crespo?
- ¿Tiene el lomo arqueado?
- ¿Tiene los codos abducidos?
- ¿Tiene la cabeza gacha?
- ¿Cojea?

# Inseminador



## **Observe:**

Ubres  
Llenado Ruminal  
Vacas que no se  
prendieron  
Vacas cojas

## **Sienta:**

Temperature  
Llenado Rumial

Source: CRI Dairy Herdsman Videos

# Alimentador



Vacas que no muestran interes en moverse cuando la comida se reparte.

Source: CRI Dairy Herdsman Videos

# Exploración

# Equipo

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Termómetro

Contenedores (leche, orina, heces)

Tubos de sangrar

Lapicero Sharpie

Tiras de cetona

Estetoscopio

Tiza

Guantes de ordeño

Lubricante obstétrico

Toallitas con Alcohol

Toalla

Paleta de CMT, líquido de CMT y sellador

# Exploración Completa

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Haga siempre una examinacion completa aunque reconozca facilmente lo que la vaca presenta:

- ❑ Conseguirá información para determinar el estado de salud general de la vaca.
- ❑ Le ayudará a determinar que otras pruebas diagnosticos deben de ser efectuadas.
- ❑ Información adicional recogida durante la exploración pueden llevar a descubrir otras enfermedades que afectan a la vaca.

# Constantes Vitales

- **Temperatura:** (100.4 (38) - 102.5 (39.17))
- **Pulso:** 60 – 84 latidos/min
- **Respiración:** 15 – 35 respiraciones/min
- **Contracciones Ruminales:** 1- 2 contracciones/min

Source: Large Animal Internal Medicine, by Bradford Smith

### Fresh Pen - Sick Cow Scoring Results

| Herd Name: |        | Example Dairy |                                  |      |           |                                  |                              |                 |        |  |                      | Date:                               |   |                                |
|------------|--------|---------------|----------------------------------|------|-----------|----------------------------------|------------------------------|-----------------|--------|--|----------------------|-------------------------------------|---|--------------------------------|
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| 1          |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |
| 2          |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |
| 3          |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |
| 4          |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |
| 5          |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |
| 6          |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |
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| 12         |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |
| 13         |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |
| 14         |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |
| 15         |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |
| 16         |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |
| 17         |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |
| 18         |        |               |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |   |                                |

<sup>1</sup>Reasons for Exam: Off-Feed (OF), Calving Problem (CP), Twins (TW), Retained Placenta (RP), Slack Udder / Low Milk (LM), Diarrhea (DIAR), Re-Check (RE), Fever (FV)

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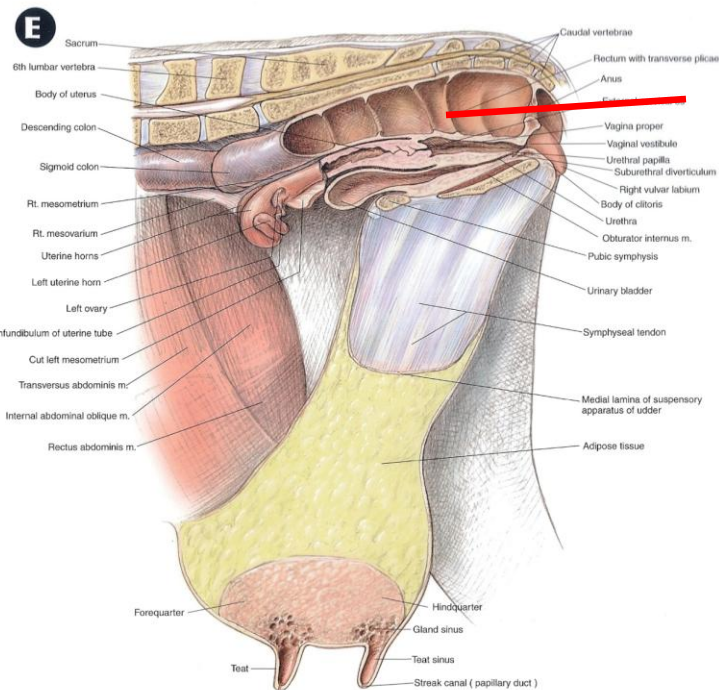
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# Temperatura Rectal



Fiebre:  $>103$  F o  $>39.4$  C

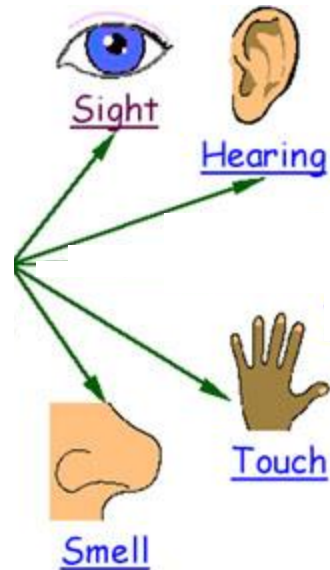
En los meses de verano 104 F (40C) puede ser normal. Hay que evaluar 4-5 vacas con aspecto saludable y sumarle 1.5 to 2 F para definir fiebre.



- El termómetro debe de tocar las paredes del recto y no heces o aire.

- Factores que afectan a la temperatura: temperatura ambiente, hora del día, profundidad de inserción del termómetro, calibración del termómetro

**4  
Senses**



**Usa los  
sentidos  
mientras  
evaluas la  
temperatura**



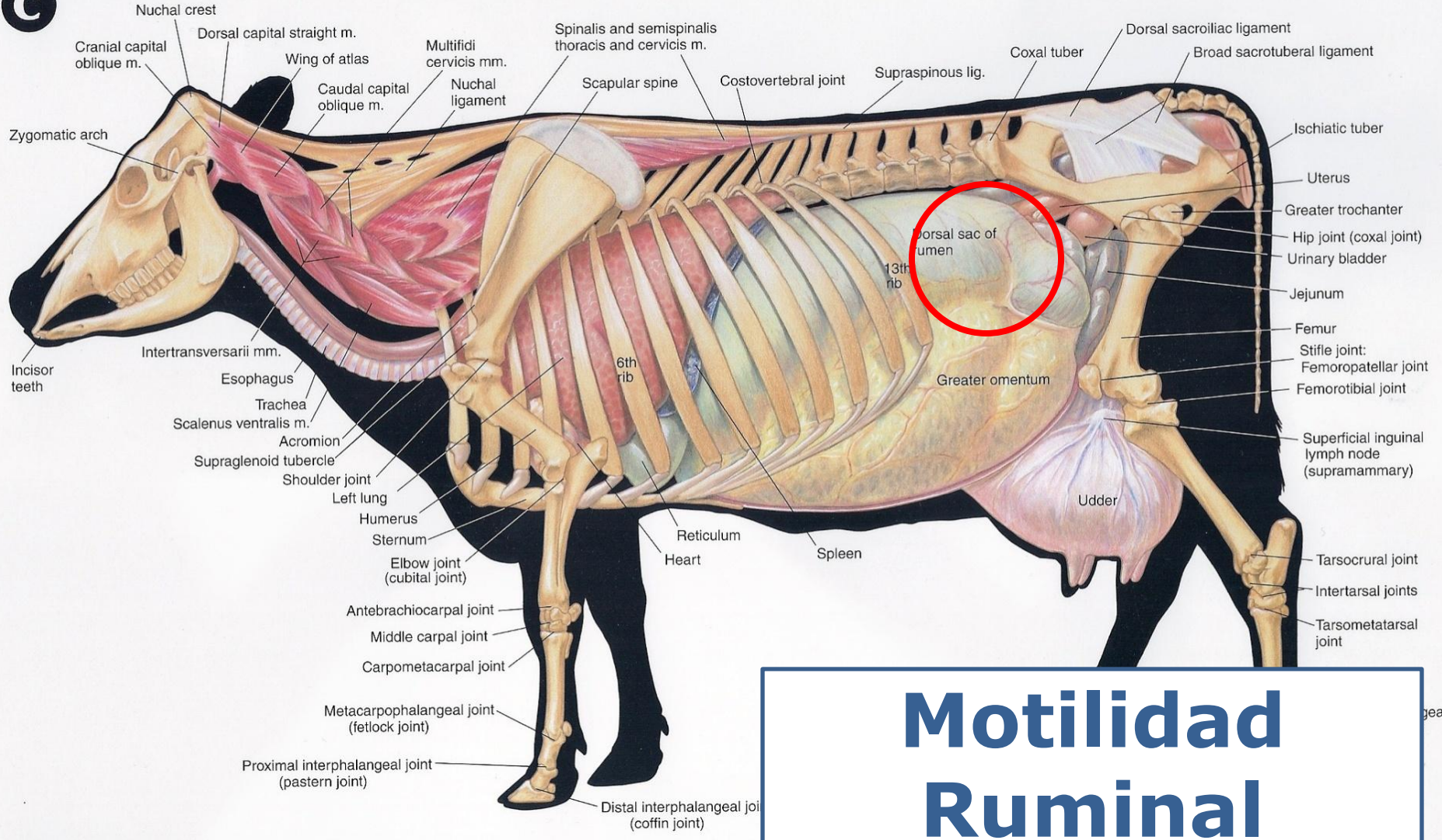
Coloque firmemente su puño en el flanco izquierdo y fijese en la actividad ruminal.

Las contracciones ruminales deben de ser lo suficientemente fuertes para desplazar su puño.

In a normal cow, rumen will contract one or two times per minute.

**Palpe**

C



# Motilidad Ruminal

Bovine Anatomy: The Cow by Anatomical chart company, Shokie, Illinois-



**Observe**



# Consistencia del Estiércol



**Color del  
Estiércol**



**Descarga  
Vaginal**

A close-up photograph of a cow's udder, showing a large, irregular, reddish-pink mass. The mass has a textured, almost fibrous appearance and is significantly larger than a normal udder. The surrounding skin is light-colored and appears somewhat dry or scaly. The background is dark, making the udder the central focus.

**Ubre Anormal**

A close-up photograph of a cow's hoof, showing the lower leg and the hoof itself. The hoof is dark brown and appears to be in poor condition, with some white material visible at the bottom. The surrounding skin is reddish and inflamed. A white rectangular box with a blue border is overlaid on the image, containing the text "Vaca Coja o con Trauma" in blue font. The background is dark and wet, suggesting a farm or veterinary setting.

**Vaca Coja o  
con Trauma**



## Heridas en Vulva



**Oler**



**Olor Pútrido**



- Dificultades respiratorias
- Tos

**Escuche**

**Fresh Pen - Sick Cow Scoring Results**

| Herd Name: |        |     | Example Dairy                    |      |           |                                  |                              |                 |        | Date:                                  |                      |                                     |  |                             |
|------------|--------|-----|----------------------------------|------|-----------|----------------------------------|------------------------------|-----------------|--------|--|----------------------|-------------------------------------|--|-----------------------------|
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|            |        |     |                                  |      |           |                                  |                              |                 |        |  |                      |                                     |  |                             |
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**Completar la hoja de puntaje**

<sup>1</sup>Reasons for Exam: Off-Feed (OF), Calving Problem (CP), Twins (TW), Retained Placenta (RP), Slack Udder / Low Milk (LM), Diarrhea (DIAR), Re-Check (RE), Fever (FV)

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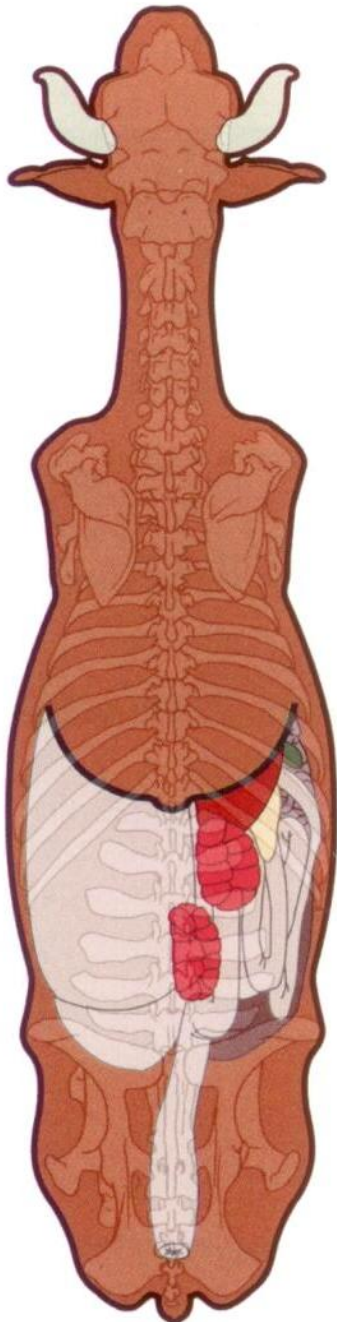
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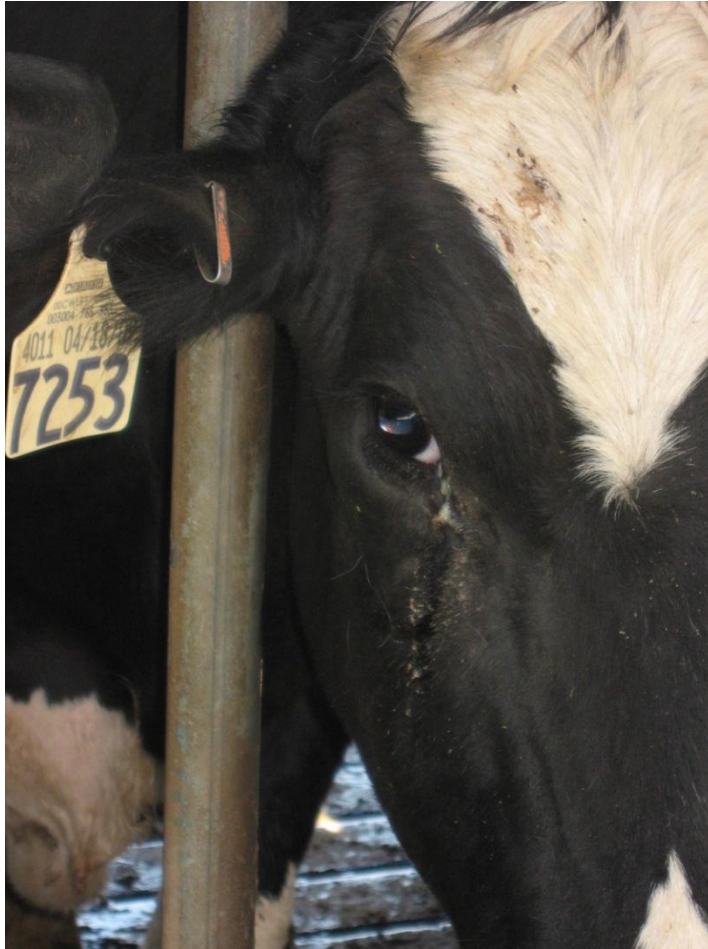
# Examinación Rectal



- Utero y Ovario
- Contenido Ruminal
- Distensión Intestinal
- Consistencia del Estiércol
- Fiebre

Source: La exploracion clinica del ganado vacuno

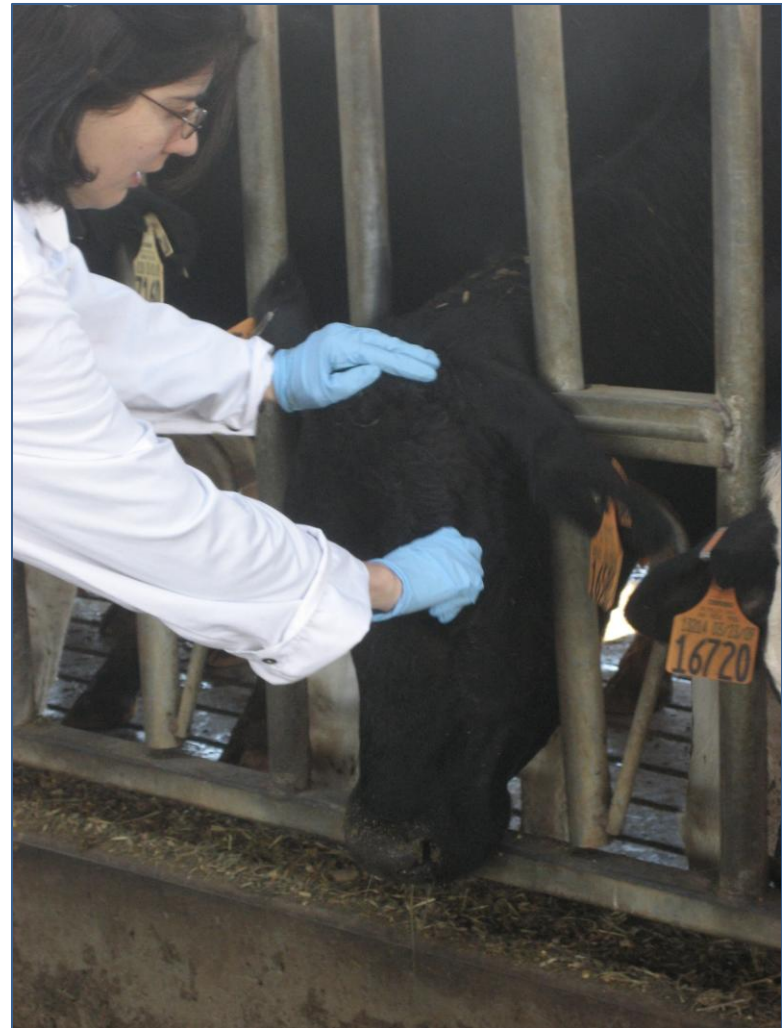
# Examinar Ojo, Nariz y Orejas



- Ojo: Hundindo, costroso, rojizo, secreciones anormales.
- Morro: limpieza, sequedad, secreciones anormales.
- Orejas: posición, temperatura.

# Deshidratación

- Hidratación normal: La piel regresa en  $<$  de 2 segundos.
- Deshidratación severa: La piel regresa en  $>$  6 segundos.



### Fresh Pen - Sick Cow Scoring Results

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# Fiebre de Leche



<http://faculty.ksu.edu.sa>

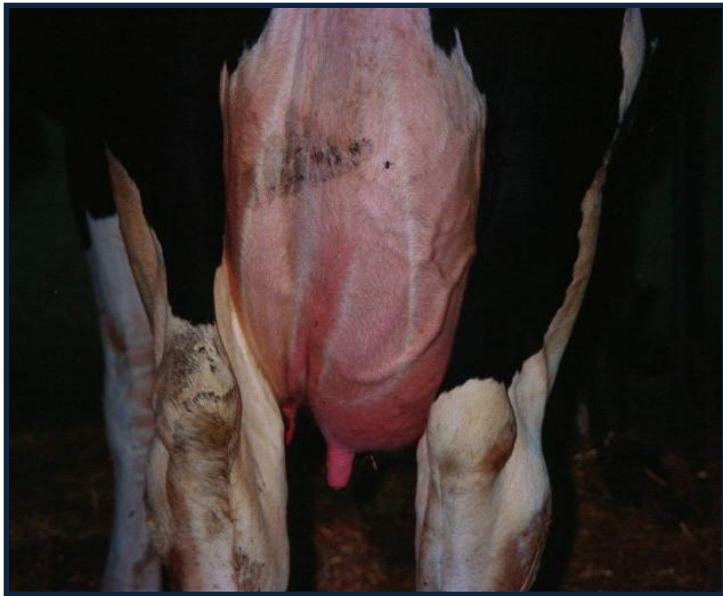
- Vaca de 0 a 3 DEL
- Vaca caída, temblorosa o que se tambalea
- No tiene fiebre ni está lastimada

# Metritis



- Fiebre
- Descarga vaginal mal oliente

# Mastitis



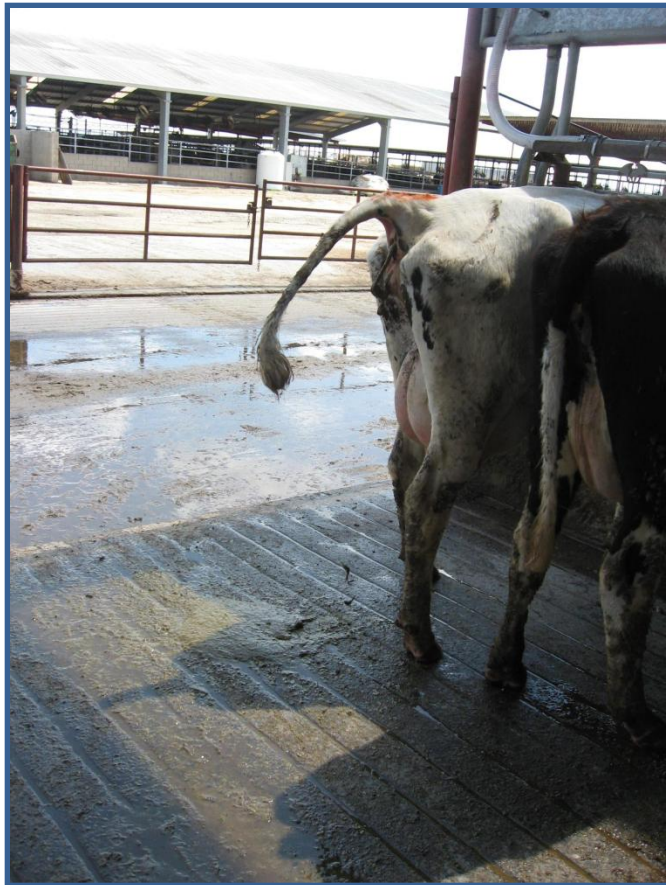
- Ubre anormal
- Fiebre

# Problemas Respiratorios



- Fiebre
- Tose
- Descarga nasal

# Enteritis



- Diarrea acuosa, suelta con sangre
- Fiebre
- No hay otros diagnosticos que expliquen este estiércol

# Trauma/ Coja



- Parto difícil o trauma al parto
- No es capaz de levantarse
- Las piernas traseras se van extendiéndose

# **PRUEBAS ADICIONALES**

# Cetosis

Rumen Anormal  
Vacas que no comen  
No se ha identificado ningún otro problema

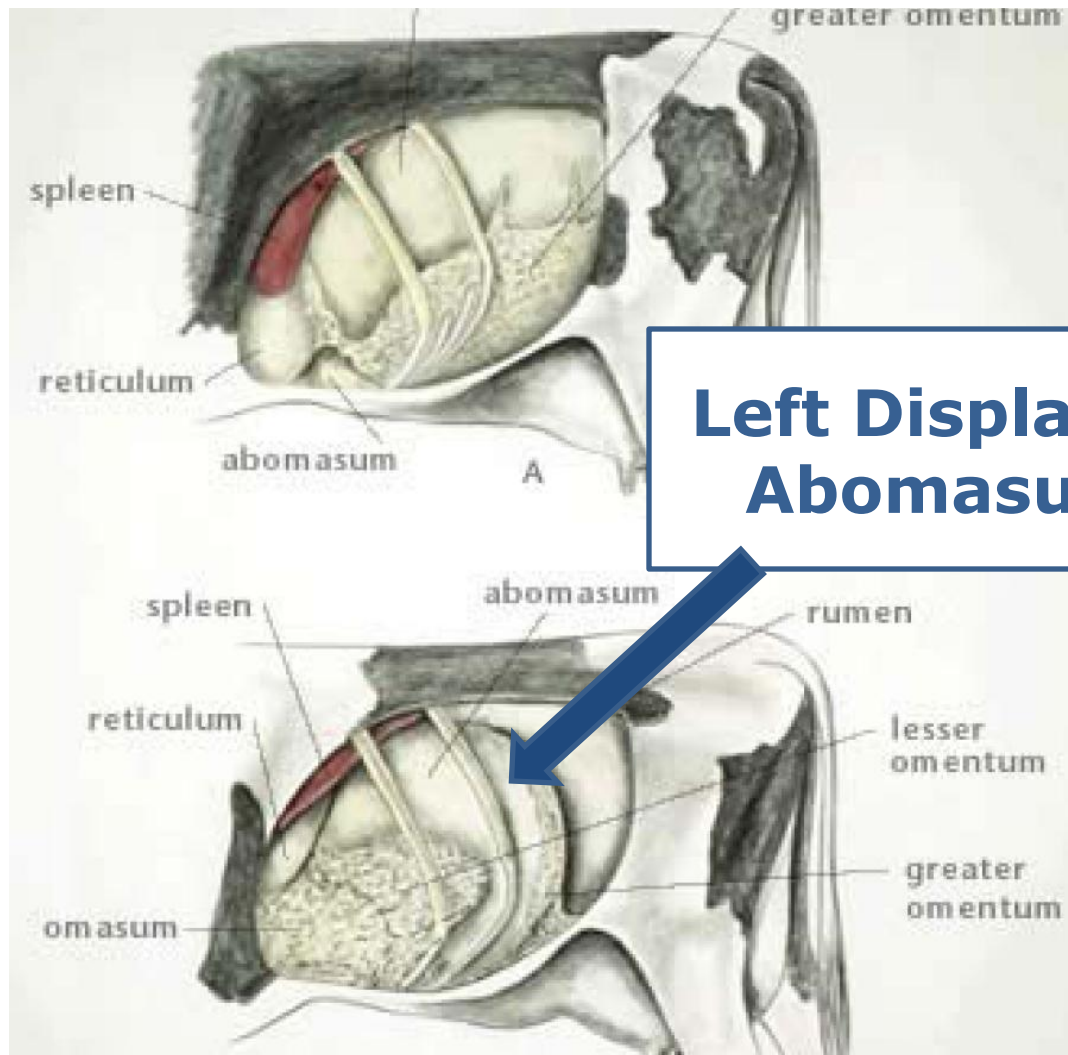


# Desplazamiento de Abomaso

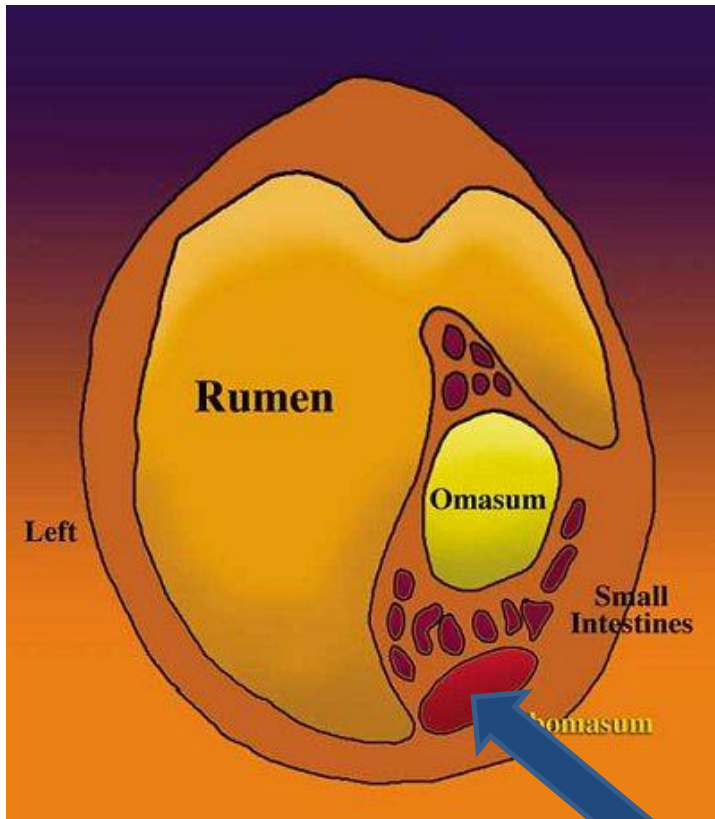
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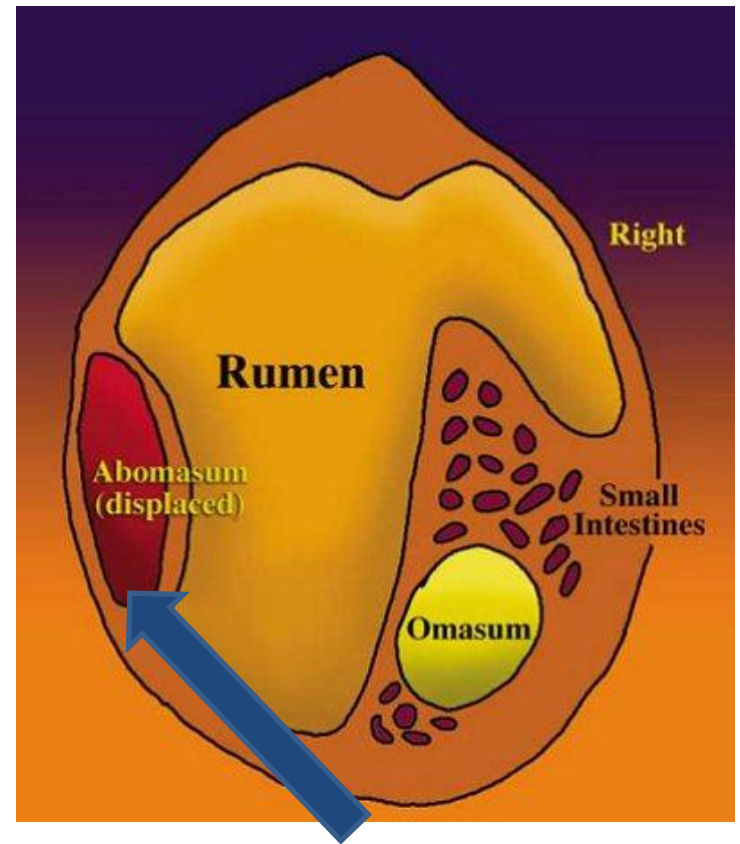
Rumen Anormal  
Vacas que no comen  
Ningún otro problema  
se ha identificado



**Left Displaced  
Abomasum**



**Abomaso Normal**



**Abomaso Desplazado**





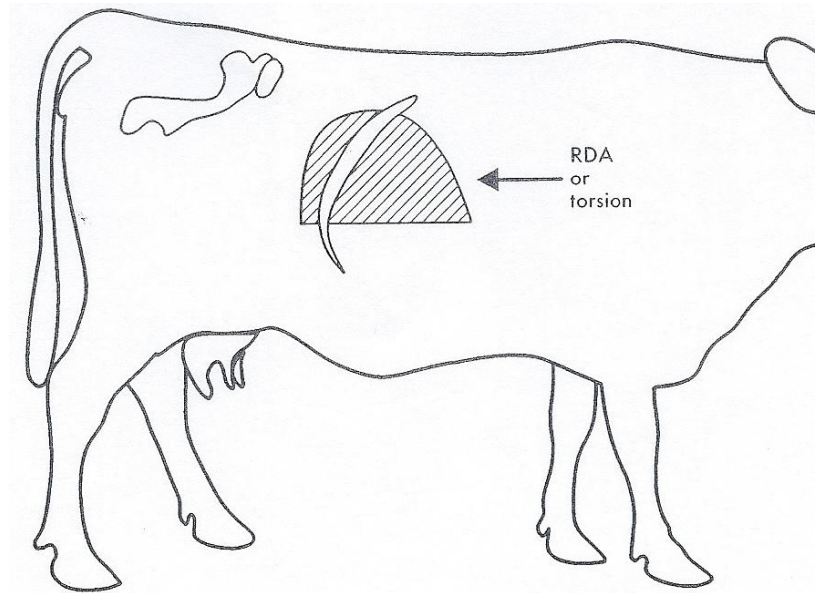
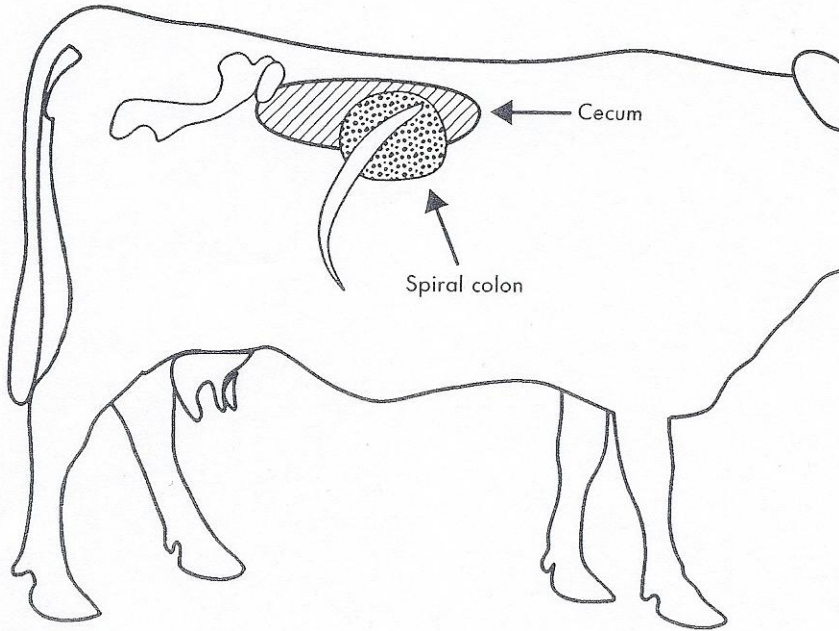






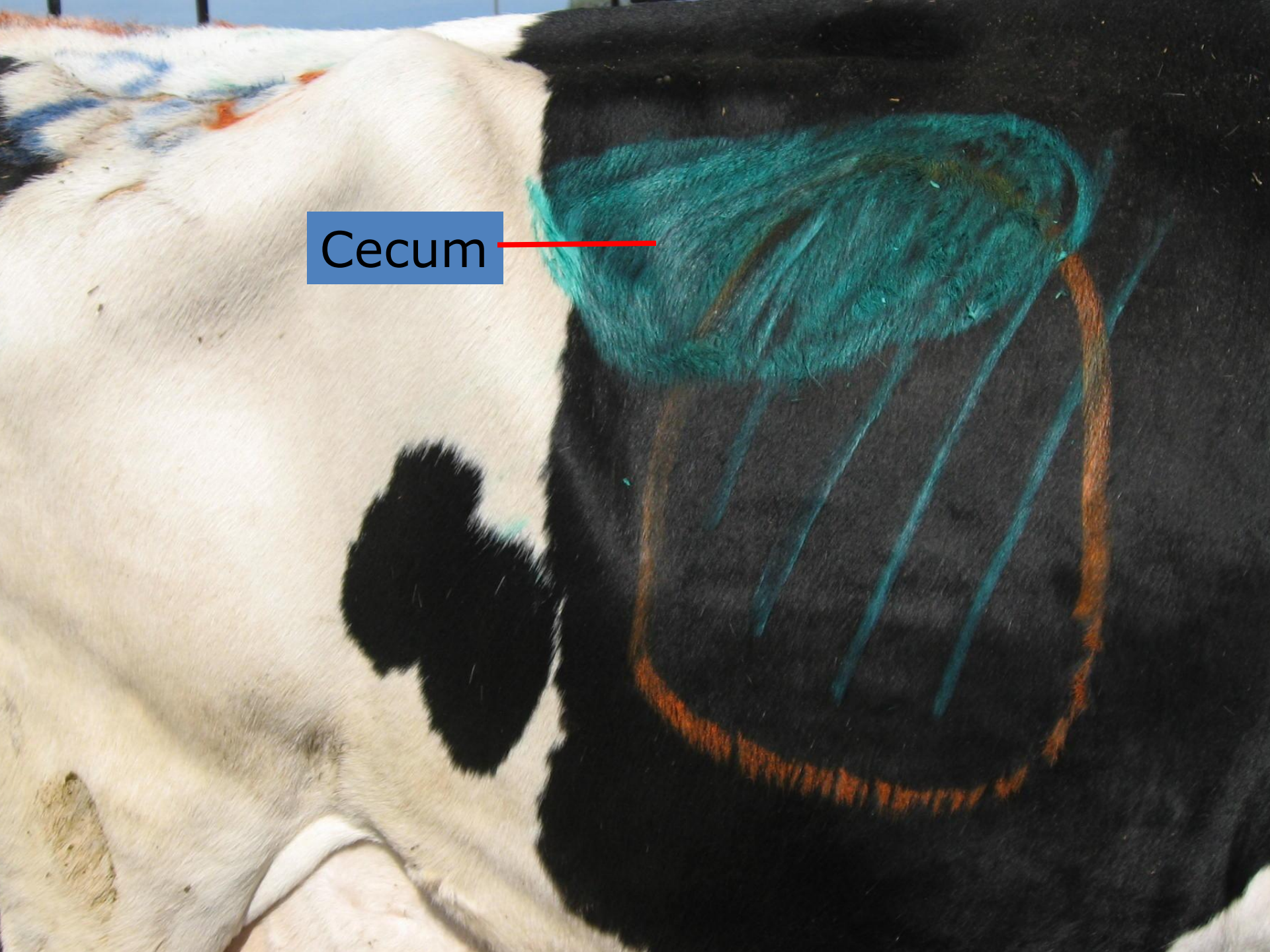
# Desplazamiento de Abomaso Derecho

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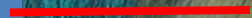




Cecum



Colon



# CMT

---

Ubre Anormal



# Tomar Leche para Cultivo

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Leche Anormal  
CMT positivo



# Tomar Estiércol para Cultivo

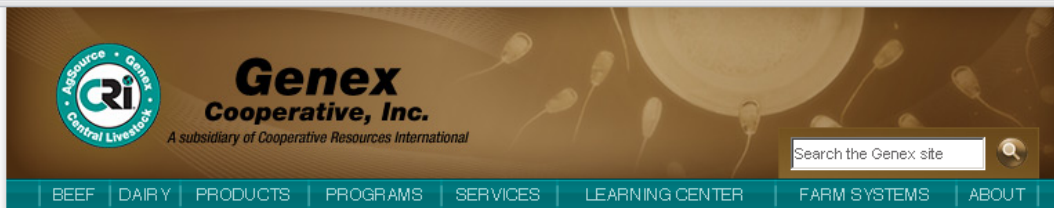
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Fiebre  
Estiércol anormal

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...com/page290/DairyHerdsmanVideos



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### Dairy Herdsman Videos



The Dairy Herdsman Continuing Education Video Series was developed and produced by CRI and Dr. Roger Weigle. Dr. Weigle had over 20 years of veterinarian experience working in a private Wisconsin dairy clinic before joining Genex as the Associate Vice President of Animal Health.

According to Dr. Weigle, "The reason for producing this video series was to try to empower the farmer or herdsman with information they can use to upgrade the management of their herds."

The series also shows proper techniques as well as simpler and safer ways to complete many day-to-day procedures. These videos are excellent training tools for new farm employees or a great review for the experienced farmer. Currently there are five topics covered in the series. Each is available in English or Spanish on DVD.

[Click here to for a preview of the videos](#)

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