

Ostertagia ostertagi

Questions



Primary GINs

Matching: Match each parasite with its associated characteristic.

- | | |
|---|--------------------------------|
| ___ 1. A primary GastroIntestinal Nematode | A. <i>Haemonchus contortus</i> |
| ___ 2. Brown Stomach Worm | B. Small Strongyles |
| ___ 3. Most economically important helminth of Cattle | C. <i>Ostertagia ostertagi</i> |
| ___ 4. Pasture-borne Parasite | D. All the above (A, B, C) |
| ___ 5. Causes a disease of calves & young cattle | |

True or False

_____ : Acquired Immunity is an important advantage for cattle against GINs, allowing cattle over 2 years old to suffer little to no pathology caused by *Ostertagia ostertagi*.

_____ : Currently, another advantage for the management of *Ostertagia ostertagi*, is that dewormer resistance has not been reported for *O. ostertagi*.

Ostertagia ostertagi

Pathology & Clinical Signs

Check box: Check the Boxes that apply to the Pathology & Clinical Signs of Ostertagiasis.

- dysfunction of the gastric (abomasal) mucosa leading to increased pH; the interruption of digestion, causing a negative nitrogen balance and a systemic increase in protein catabolism.
- Acute Anemia and Death
- Anorexia, Weight-loss, Stunted Growth
- Calves during their 1st & 2nd grazing seasons
- Severe colic with potential aortic aneurysm
- Hypoproteinemia with bottle-jaw & edema
- Profuse & Persistent Watery Diarrhea
- Calves with an excessive respiratory rate, frequent coughing, crepitation, harsh bronchial sounds, & air hunger.
- Abomasum with Moroccan Leather appearance at necropsy.

Ostertagiasis

Type I v/s Type II



Matching: Match each Type of Ostertagiasis with its associated characteristic.

- ___ 1. The primary cause of pathology is growth, development, and emergence of L4 larvae in the gastric glands.
- ___ 2. Low Morbidity, High Mortality
- ___ 3. L4s don't arrest
- ___ 4. L3s ingested late 1st grazing season; Pathology early 2nd grazing season
- ___ 5. Treat 1st grazing season calves early in the 1st grazing season with an adulticide.
- ___ 6. Sudden acute pathology due to mass reactivation of arrested L4s.
- ___ 7. Pathology during Summer & Fall in Cool Region (aka North, ex. Iowa).
- ___ 8. Pathology in young calves (weanlings).

- A. Type I Ostertagiasis
- B. Type II Ostertagiasis
- C. Both Type I & Type II

Ostertagiasis

Type I v/s Type II



Matching: Match each Type of Ostertagiasis with its associated characteristic.

- ___ 1. Southern Calves grazed in the spring and moved to Northern Feed-lots have pathology in the Fall.
- ___ 2. Pathology during Fall in Arid Region (aka South, ex. Arizona).
- ___ 3. High Morbidity, Low Mortality
- ___ 4. Treat 2nd grazing season calves, late in 1st grazing season with a larvicide.
- ___ 5. L4s arrest and reactivate later.
- ___ 6. L3s "trickle-in" while grazing, thus a slow, progressive pathology.
- ___ 7. L3s ingested early 1st grazing season; Pathology mid to late 1st grazing season.
- ___ 8. Pathology in older calves (yearlings).

- A. Type I Ostertagiasis
- B. Type II Ostertagiasis
- C. Both Type I & Type II

Ostertagia ostertagi

Control: Pasture Management

Good or Bad: Good or bad pasture management practices for cattle.

- ___ 1. Naïve calves on pasture after older calves.
- ___ 2. Cow / Calf operations that graze cows and their calves side-by-side.
- ___ 3. Mix young calves and older calves
- ___ 4. Naïve calves on fresh pasture before older calves.
- ___ 5. Use the same pasture for calves every year.

A. Good

B. Bad

Trichostrongylus colubriformis

Pathology & Clinical Signs

Check box: Check the Boxes that apply to the Pathology & Clinical Signs of *Trichostrongylus colubriformis*.

- Protracted Watery Diarrhea.
- Acute Anemia and Death
- Anorexia, Weight-loss, Stunted Growth
- Black Scours
- Fly Strike
- Moroccan Leather
- Dingleberries and Dags

Minor GINs

Matching: Match each Minor GINs with its associated characteristic.

(One blank has more than one answer.)

- ___ 1. Abomasum or Stomach.
- ___ 2. Protracted watery diarrhea, anorexia, weight-loss
- ___ 3. Small Intestine
- ___ 4. Horses
- ___ 5. The Bankrupt worm
- ___ 6. Ruminants
- ___ 7. May cause issues with co-grazing Horses & Sheep
- ___ 8. Shows resistance to Macrocyclic Lactones in Cattle
- ___ 9. Post-winter Larval storms due to mass hatching of over-wintered eggs.
- ___ 10. Deworm young hosts early in the grazing season.

- A. *Trichostrongylus axei*
- B. *Trichostrongylus colubriformis*
- C. *Nematodirus sp.*
- D. *Cooperia sp.*
- E. All the above