

JOHNE'S DISEASE (PARATUBERCULOSIS)

It is a chronic wasting illness of ruminants characterized by prolonged course, recurrent diarrhea, dehydration, emaciation and death

CAUSE

Mycobacterium paratuberculosis

INCIDENCE/SUSCEPTIBILITY

- Cattle, sheep and goats and wild ruminants
- Long incubation period

TRANSMISSION

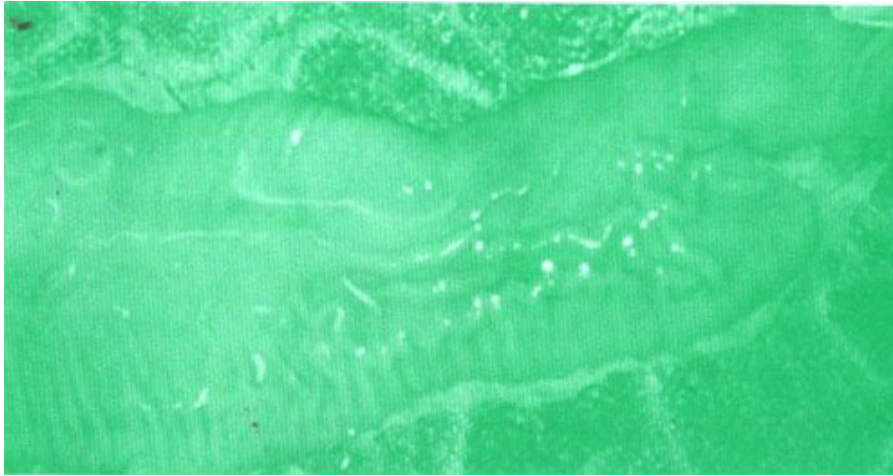
- Ingestion

CLINICAL SIGNS

- Emaciation, hide bound with dry skin and hair
- Normal appetite with increased thirst and diarrhea
- Sheep & goat – Diarrhea is not common, emaciation observed

CHARACTERISTIC LESIONS

- Emaciated carcass with gelatinization of fat
- Wall of the terminal part of ileum thickened and edematous and mucosal surface thrown into folds giving a corrugated appearance (Fig.1)



(Fig.1)

COLLECTION OF SAMPLES

Live animals	Dead animals	Preservative used
Swab from rectum	Impression smear from intestine & mesenteric lymph nodes	Heat fixed
Rectal pinch	Swab from intestine	NS/PBS
	Tissues sample	10 Percent formalin

- Regular screening of live animals by johnin testing
- Quarantine and slaughter of infected animals
- Proper disposal of dead animals and fomites
- Disinfection of the infected premises and fomites with bactericidal agents
- Antibiotic therapy

SAMPLE TESTING AND FEES

S.NO	Diagnostic test	Samples	Cost in rupees/sample
1.	Isolation of bacteria by culture	Swabs and tissues	Rs 250/-
2.	PCR	Swabs and tissues	Rs 500/-
3.	Examination of impression smear	Impression smears	Rs 30/-
4.	Histopathology	Tissues	Rs 200/-