

LANDMARK 2017

42ND ANNUAL CONFERENCE OF THE NIGERIAN SOCIETY FOR ANIMAL PRODUCTION (NSAP)

THEME: Emerging challenges facing Animal Agriculture in Nigeria and the way forward

DATE: Sunday 26th to 30th March, 2017

VENUE: Multipurpose Hall, Landmark University,
Omu-Aran, Kwara State, Nigeria

Coccidiosis in two 6-months-old Bunaji bull-calves in Majeru village, Zaria L.G.A of Kaduna State

By

Danbirni, S.

Kaltungo, B.Y.

Sulaiman, M.M.

Ememe, M.U.

Mika'il, H.G.

Saidu, S.N.A.

- **History**

On the 6th Sept., 2016, the Resident Doctors in large animal section of Medicine Specialty of the CVSNI, A.B.U Zaria study centre went on a routine ambulatory to a herd of 25 Bunaji cattle in Majeru Village in Zaria L.G.A.

The chief complaint in the herd was diarrhoea of 24h duration in two 6-months-old bull-calves with no medical record.

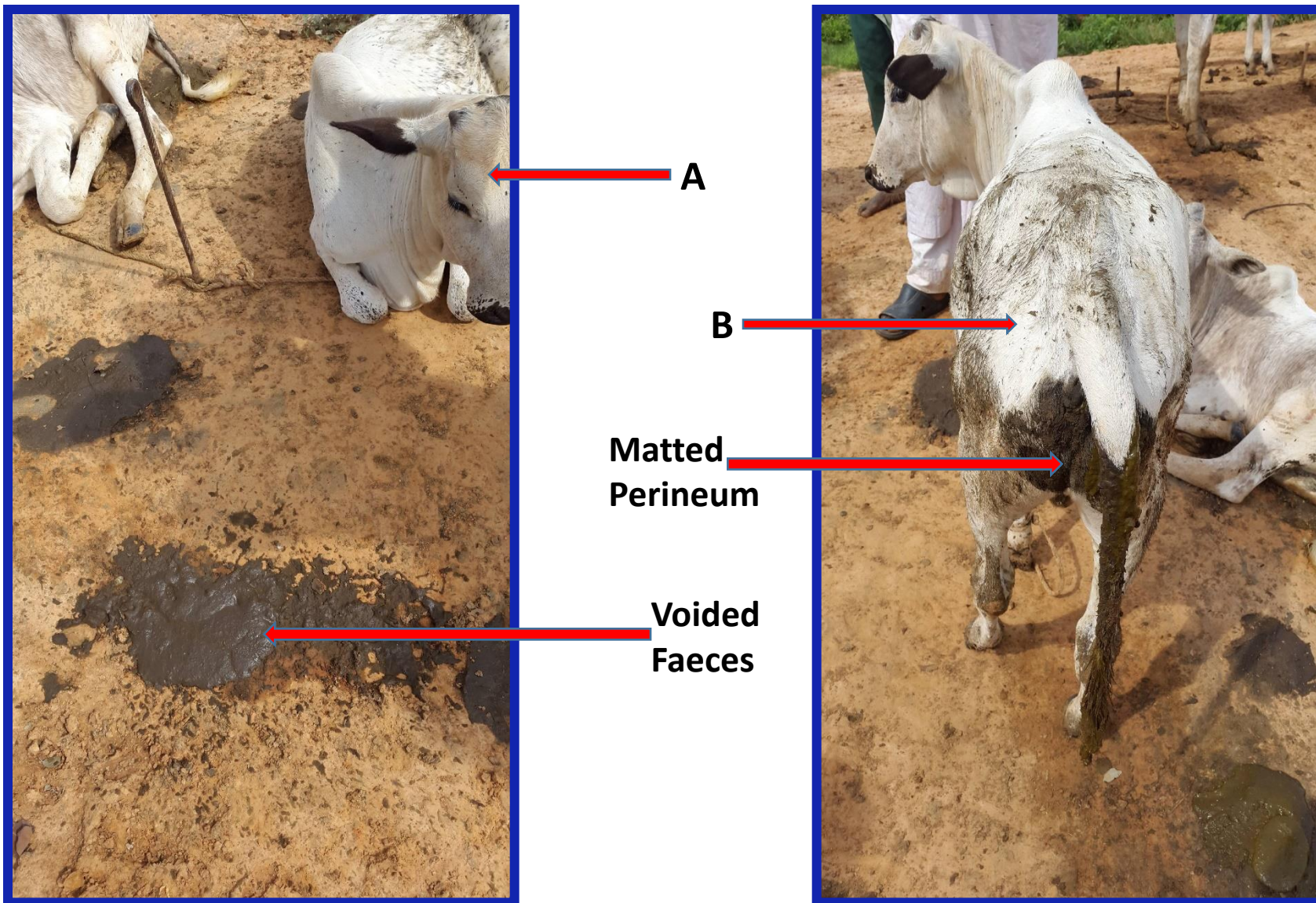


Plate 1. Two Bunaji bull-calves with history of diarrhoea (A & B)

ACTION PLAN

- Carry out a thorough physical examination
- Collect relevant samples and send to appropriate laboratories
- Manage the case accordingly

- Physical Examination

Bull calf A

- RR=28cpm, PR=72bpm, T=37.7°C, Wt=82kg
- Sero-mucoid nasal discharge
- Dry muzzle
- Congested mucous membrane
- Mild dehydration (3-5%)
- Matted perineum

Bull calf B

- RR=28cpm, PR=72bpm, T=38.5°C, Wt=65kg
- Pinnae were warm to touch
- Dark green mucoid diarrhoea with frank blood voided
- Tenesmus during and after defaecation

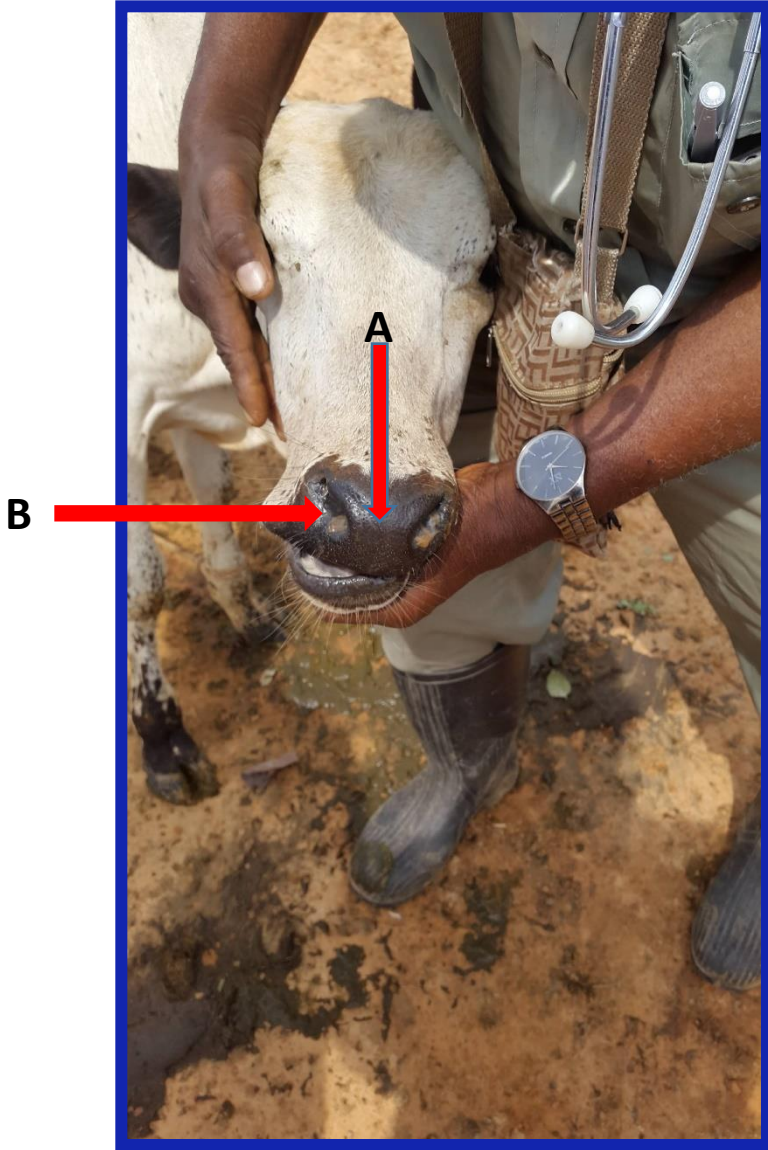


Plate 2. Bunaji bull-calf with
A= Dry muzzle and
B= Sero-mucous nasal discharge



Plate 3. Bunaji bull-calf straining
and voiding mucoid diarrhoea



Plate 4. Bloody diarrhoea voided
by Bunaji bull-calf

- **Differential Diagnoses**

- Coccidiosis

- Helminthosis

- **Tentative Diagnosis**

- Coccidiosis

- Treatment

Bull calf A

- 5% Tetracycline 820mg i.m once
- 5% Tetracycline bolus 820mg
x4/7 p.o ----- day 2
- 2.5% Albendazole susp. 615mg
p.o once.

Bull calf B

- 5% Tetracycline 650mg **i.v** once
- 5% Tetracycline bolus 650mg
x 4/7 p.o ----- day 2.
- 2.5% Albendazole susp. 487.5mg
p.o once.

- **Advice to the Client**

- To adhere strictly to our instructions in administering the tetracycline bolus p.os
- To notify us immediately of any abnormality observed subsequently
- To consider separating calves from adult cattle especially after weaning

- Laboratory Results

Bull calf A

➤ Faecal samples:

- Strongyle egg +
- Strongyloides egg +
- Coccidia oocyst +

➤ Haemogram:

- PCV 49%
- RBC $8.1 \times 10^{12}/L$
- Eosinophils 24%
- Neutrophils 20%

Bull calf B

- Strongyloides egg +
- Coccidia oocyst ++

- PCV 74%

THANK YOU FOR LISTENING