

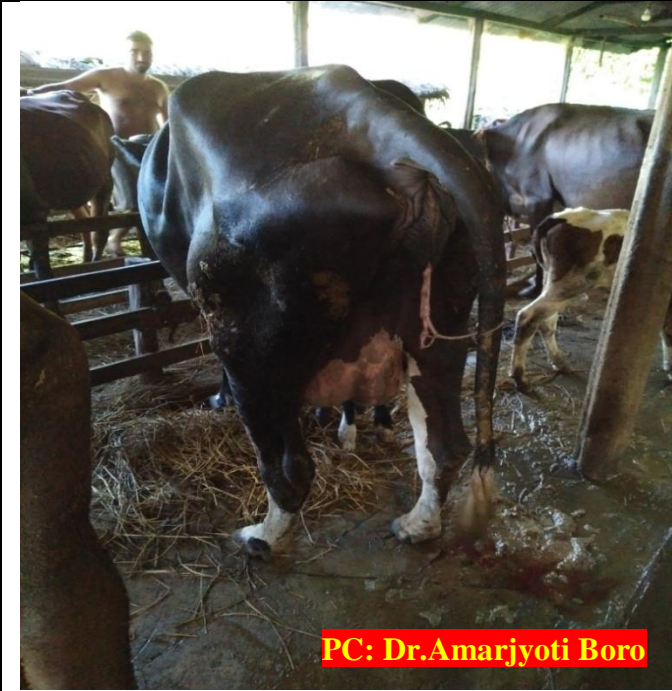
## BRUCELLA IN ANIMAL

Brucellosis is a bacterial disease caused by Gram-negative coccobacilli. It infects most of the domestic animals and causes significant economic losses due to abortion, stillbirth, delivery of weak calves, infertility and mastitis.

### How To Diagnose:



Abortion of fully grown calf at 3<sup>rd</sup> trimester of pregnancy.



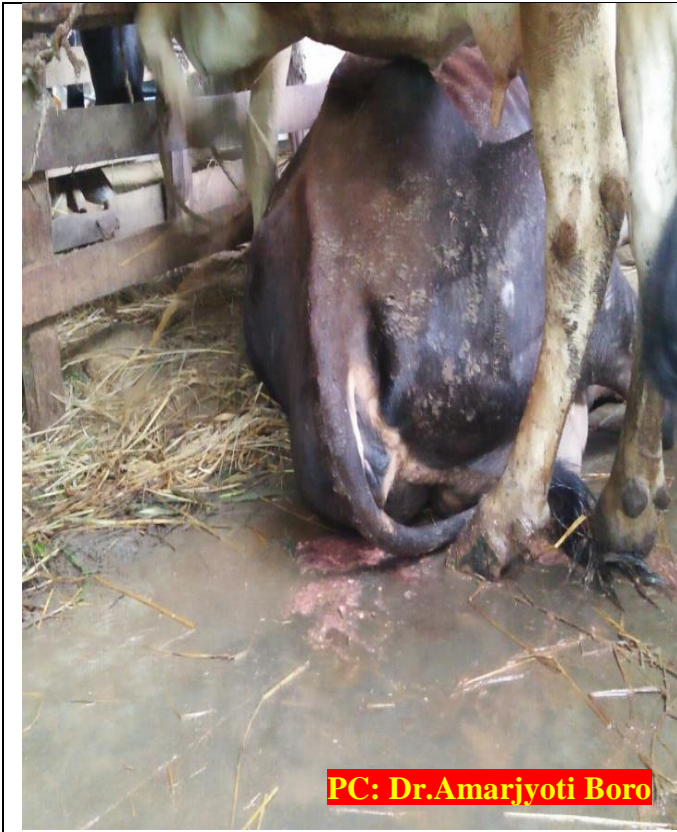
**PC: Dr.Amarjyoti Boro**

Retention of placenta after abortion.



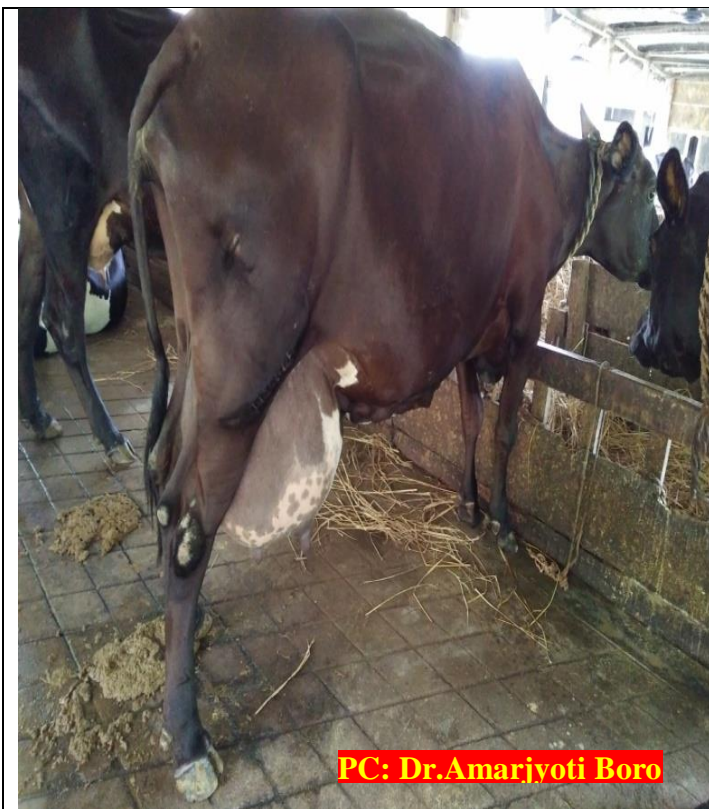
**Source: Internet**

Haemorrhagic placenta with aborted foetus



Foul smelling uterine discharge after abortion

**PC: Dr.Amarjyoti Boro**



Severe mastitis in brucella infected cow

**PC: Dr.Amarjyoti Boro**



Source: Internet

Swelling of knee joints  
(Hygroma)



Source: Internet

Failure to conceive in  
single insemination and  
require repeated  
insemination.



Source: Internet

Swelling of testicle in buck.



Source: Internet

Swelling of testicle in boar

**Type samples to be collected :**

Serum, blood, milk, uterine discharge, aborted foetus, placenta, semen from male animal.

**Laboratory tests to be performed :**

- i. Direct microscopic examination
- ii. Serological test-SAT, RBPT, MRT, ELISA
- iii. Isolation
- iv. PCR

## **Whom To Contact:**

- Local Veterinarian Officer/ Field Assistant.
- ADMaC, Core Lab, AAU, Khanapara, ICARC-NEH, Barapani, CAU, Selesih, Aizaw, Mizoram
  - ◆ Dr Arnab Sen, Email : [arnabsen123@gmail.com](mailto:arnabsen123@gmail.com), Mob no: 08974027632,
  - ◆ Dr. N.N.Barman, E mail: [nnbarman@gmail.com](mailto:nnbarman@gmail.com), Mob No.0943555 8788
  - ◆ Dr Tapan Dutta, Email: [tapandutta@rediffmail.com](mailto:tapandutta@rediffmail.com), Mob no: 09862335294,

## **What will you do:**

- Dispose the aborted materials and burry in deep pitch in isolated place putting washing soda, bleaching powder.
- Clean the floor with phenol and potash solution properly.
- Separate the affected ones from the healthy animals. Dispose discharges regularly.
- Screening the herd for Brucella regularly.
- Do not use bull, adopt artificial insemination.
- Occurrence of any abortion incidence inform nearest Veterinary Doctor/Field Assistant.
- Send appropriate samples through Veterinary Doctor/Field Assistant to the nearest diagnostic laboratory/ ADMaC Core Lab-I, Khanapara for confirmation of the disease.
- Maintain the personal hygiene and keep farm surrounding clean.