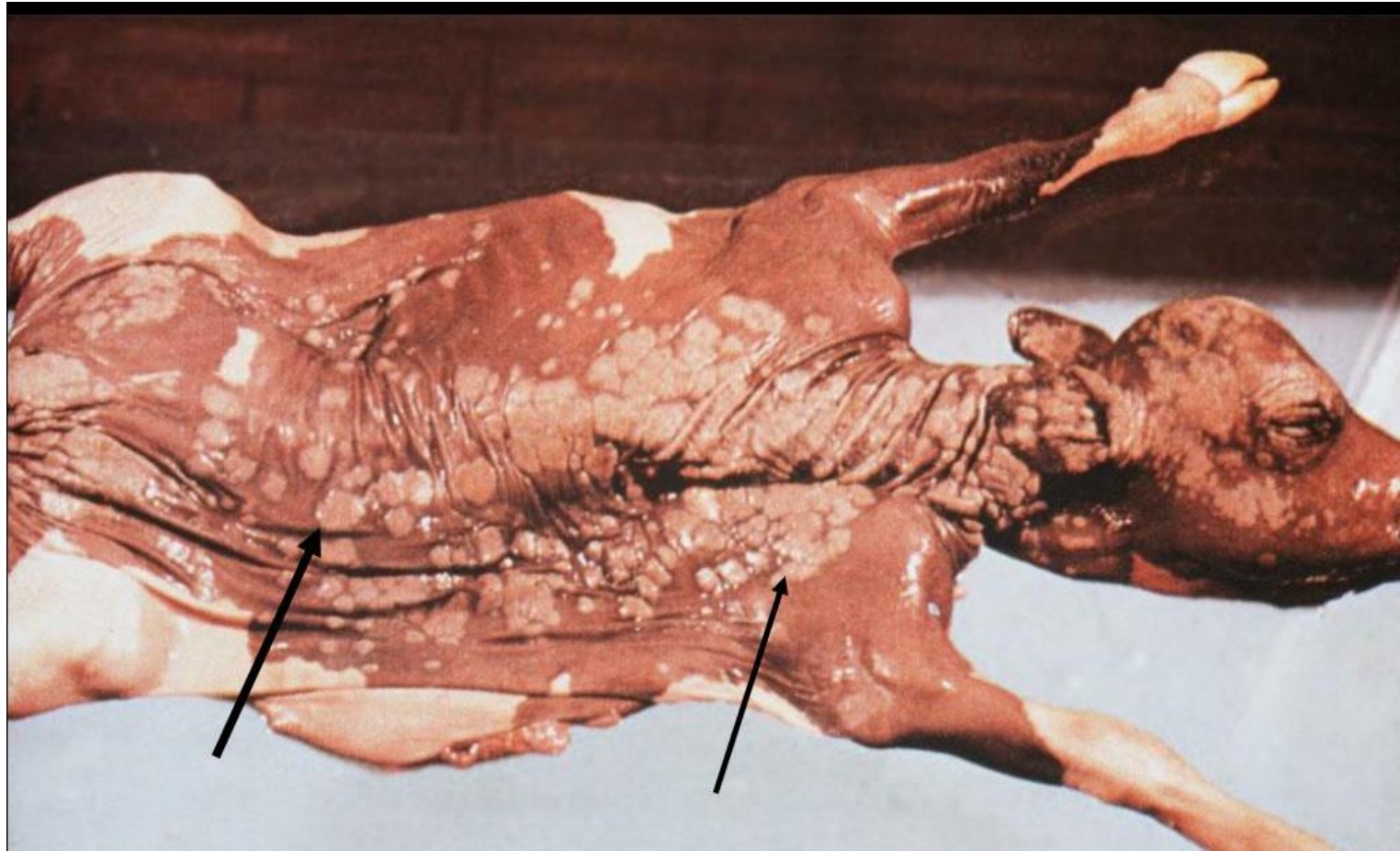
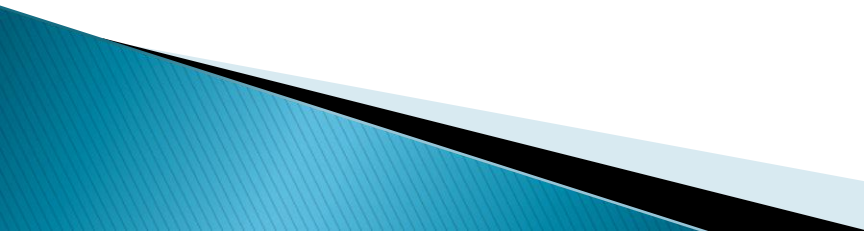


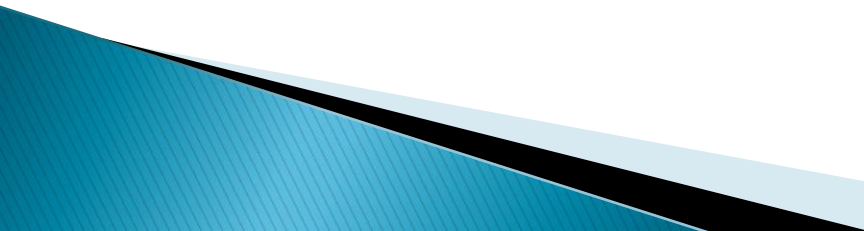
# MYCOTIC ABORTION



Dr. Poonam Shakya

# INTRODUCTION

- ▶ *Trichosporon spp*
  - ▶ *Aspergillus fumigatus*
  - ▶ *A. flavus*
  - ▶ *A.nidulus*
  - ▶ *A. terreus*
  - ▶ *Candida spp*
  - ▶ Zygomycetes (*Absidia*, *Mortierella*, *Rhizomucor*, *Rhizopus*)
  - ▶ Yeasts (*Candida*, *Torulopsis*)
- 

- ▶ **Mycotoxins** such as **zearalenone** in very high levels can cause abortions in cattle,
  - ▶ **Aflatoxin**
  - ▶ **Ergot alkaloids** are toxins produced by the *Claviceps* fungus, which grows in the seeds of various grasses and small grains such as fescue, bromegrass, wheat, oat and rye.
  - ▶ These toxins have been associated with abortions in dairy cattle as well as other health problems.
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# PATHOGENESIS

- More in WINTER when cattle housed/fed inside
- Injury to respiratory/GIT → hematogenous → uterus → severe necrotic placentitis
  - Thick, leathery cotyledons + intercotyledonary placenta
- **Abortions in 3<sup>rd</sup> trimester**
- Head and neck lesions on fetus



# DIAGNOSIS

- ▶ BY isolation and identification of causative agent