Hemorrhagic septicaemia



HS

(Shipping/transport fever, stockyard's disease, Barbone disease, Galaghotu in Hindi.)



Transmission

- Ingestion or inhalation
- The initial site of proliferation thought to be the tonsillar region.
- The source of infective bacteria is thought to be the nasopharynx of bovine carriers.

PATHOGENESIS

Organism→ from environment → enters into terminal bronchioles and alveoli→ causes changes in lungs in presence of predisposing factors→ destroying the leucocytes and macrophages→ and then release of histamines and PGF2alpha and sometimes fibroblastic elements→ leading to septicemic changes in body and inflammatory changes in lung parenchyma---→ and produce pneumonia with the help of secondary invaders (Parainfluenza-II, Bovine herpes virus and other bacteria) → Death due to asphyxia



Clinical findings



- High Fever (106-107° F), Profuse salivation, Petechiae om mucous.
- Edematous swelling (Under throat, neck and brisket region)
- Swellings are hot and painful
- Increased respiration, Grunting sounds followed by dyspnoea
- Death
 - Clinical findings
 - Seasonal occurrence make tentative diagnosis
 - Animal inoculation
 - Serologiacl (HAT,HIT,CFT etc.)









- Various sulfonamides (130-150 mg/Kg, IV for 3-5 days), tetracyclines, penicillin and chloramphenicol are effective if administered early.
- Anti-inflammatory
- Antihistamins
- Supportive therapy
 - Prevention is by vaccination.
- Three kinds of vaccine are widely used: plain vaccine (HS broth vaccine), alumtype precipitated vaccine, and oiladjuvantvaccine.
- The most effective bacterin is the oiladjuvant-one dose provides protection for 9-12 month; it should be administered annually.
- The alum-precipitated-type bacterin is given at 6 months intervals.
- Age of vaccination: Above 5-6 months of age