Pathology and pathogenesis of important bacterial diseases of equines

Omphalophlebitis)Navel ill(

Definition

It is an inflammation of the umbilical vein that often occurs in neonatal farm animals most common in neonatal foals, but can be seen in older foals and has 16 been reported to have occurred in horses up to .months of age

Etiology

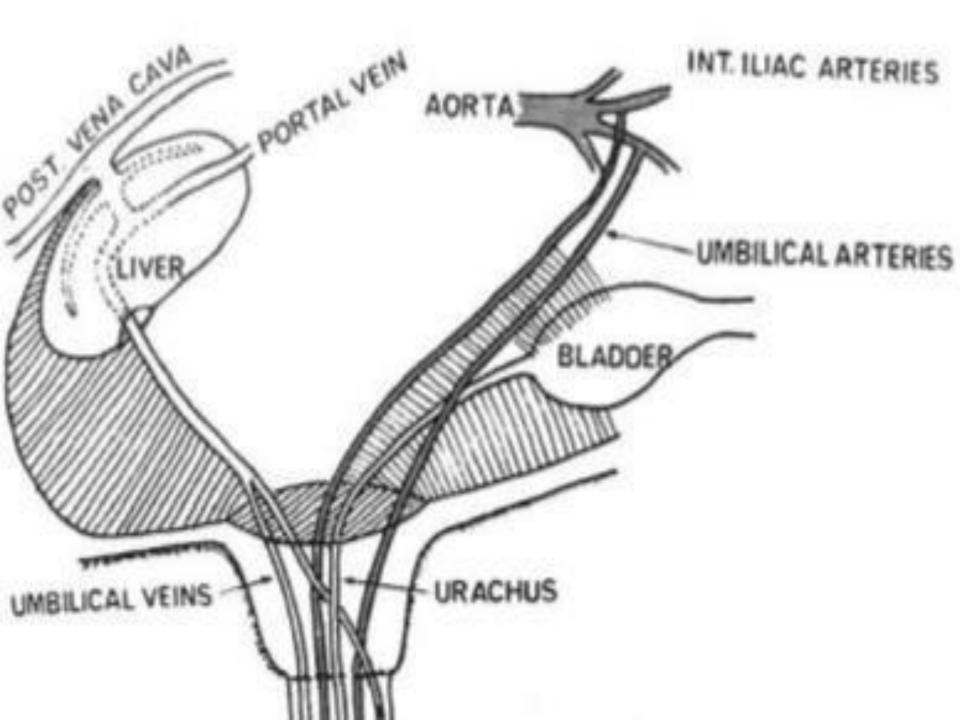
bacterial contamination of the umbilicus immediately after parturition associated with poor hygiene in the foaling environment

Symptoms

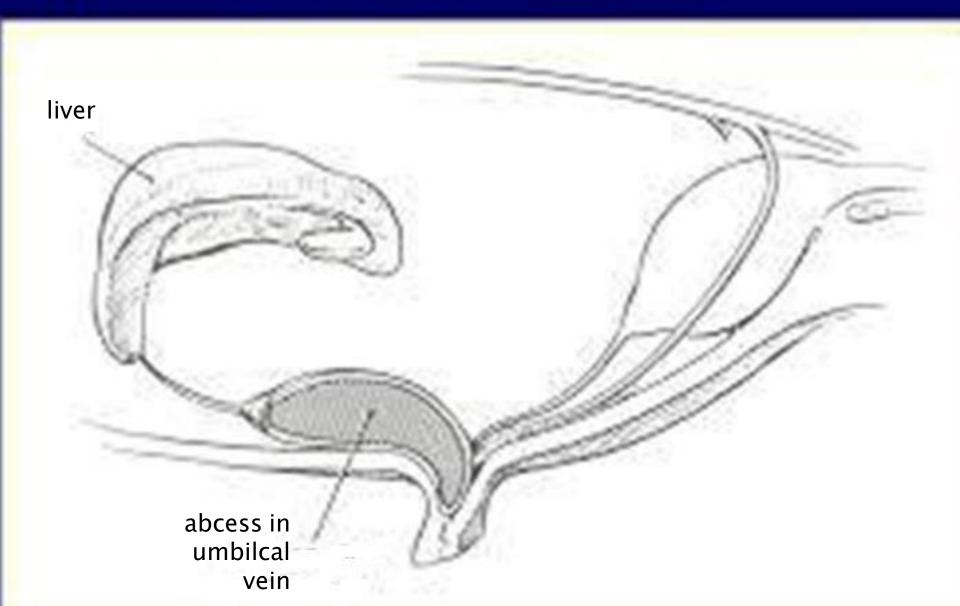
These foals are often febrile, depressed, have a poor or absent suckle. As the infection spreads, signs specific to the organ system(s) affected will occur: septic .arthritis, pneumonia, osteomyelitis

Pathogenesis

- The umbilicus is actually made of four structures: two arteries, the umbilical vein, .and the urachus
- The umbilicus is one of the possible bacterial .entries in the neonatal foal
- Bacteria colonize the umbilical structures .inflammation and abscessation
- Bacteria from this site can cause septicemia, suppurative polyarthritis, hepatic abscesses (the umbilical vein drains into the liver), and .umbilical abscesses



Umbilical vein infection



Macroscopical picture

-1Enlarged umbilicus with possible purulent discharge.

hepatic abcesses -2



Pneumonia, septic arthritis as a result of -3 dissemination of infection

Microscopical picture

- Neutrophilic leukocytes tend to dominate the inflammed vein and, with chronicity, inflammatory fibrous tissue surrounds the .vein
 - It is frequently accompanied by thrombosis **T**
 - liverin abcessmultipleof presence-3 characterized by
 - joints , lungto spreadifectionif –4

