Vesicular stomatitis

It's a viral disease caused by vesiculovirus (family Rhabdoviridae) and have two main serotype

- New Jersey (VS-NJ)which is the most common and virulent
- Indiana (VS-IN).

Epidemiology….

1-The disease is of major importance and it can cause disease in human(influenza like sings).

2-Cattle, horses, and donkeys are most susceptible but infection can also occur in pigs, camelids and humans and possibly sheep and goats.

3-morbidity rate is 5-10 and some times may reach to 80% and mortalities is 0-15%.

4-Sandflies and blackflies is responsible for transmitted the infection .moreover the disease can be transmitted by direct contact ,mechanical transmission and ingestion of contaminated food and water

5- the disease cause an economical losses through decrease milk production

Pathogenesis…

Local infection of the mucous membrane of the mouth and the skin around the mouth and coronets is followed by the development of vesicles on the lips,muzzle, tongue, and also on the teats and interdigital clefts, terminate by eroding as a dry necrotic lesion.

Clinical findings

Cattle…

1-after a short incubation period of 3-15 d, there is a sudden appearance of mild fever and the development of vesicles on the dorsum of the tongue, dental pad, lips and the buccal mucosa.

2-The vesicles rupture quickly and the resultant irritation causes profuse, ropy salivation and anorexia.

3-In milking cows there is a marked decrease in milk production .

4-Lesions on the feet and udder occur only rarely except in milking cows where teat lesions may be extensive and lead to the development of mastitis.

Horses…

1-There is fever, depression, inappetence,drooling of saliva and affected horses may rub their lips on troughs .

2- Vesicles coalesce and rupture lead to formation of shallow ulcers.

3- Lesions may occur at the coronary band and lead to lameness and deformity of the hoof wall.

Clinical pathology…

Elisa,PCR,

Treatment …

Non specific treatment with antiseptics

Control…

1- An autogenous killed vaccine