

## **Vesicular Stomatitis**

### **Etiology:**

Family: Rhabdoviridae there are two antigen:

- Newjersey
- Indiana

### **Epidemiology:**

Cattle, sheep, donkey and pig are susceptible, sheep and goat are resistant and calves more resistant to infection.

- Morbidity rate 5-10 %but in dairy herd is high as 80%,there is no mortality.
- Saliva and vesicular fluid from clinically affected animal but infectivity diminishes rapidly and may lost with a week after the vesicles rupture.
- Transmission by ingestion of contaminated material, contaminated pasture
- Fed roughage or hard pellets.
- Milk procedures in dairy herd, there is seasonal incidence of disease, cases decrease with onset of cold weather.
- Disease occur in heavy rain fall and insect population
- The disease is zoonotic but is mild resembling influenza.

### **Pathogenesis**

Viremia and localization in the mucus membrane of mouth and the skin around the mouth and coronets, the frequent absence of classical vesicles on oral mucosa of

affected animal, dehydration and terminating by eroding as a dry necrotic lesion.

**Clinical signs:**

1- In cattle short incubation period of several days, sudden appearance of mild fever and development of vesicles on the dorsum of tongue, dental pad, lips and the buccal mucosa

2- The vesicles rupture quickly resultant irritation cause profuse ropy salivation and anorexia.

3- Vesicles found on the cheek and tongue.

4- Marked decrease in milk production

5- Lesion on the feet and udder of milking cow when lesion is extensive development of mastitis.

6- Recovery is rapid 3-4 days.

7- In horses lesion limited to the dorsum of tongue or the lips less common in the udder.

**Clinical Pathology:**

1-Culture on embryonated hen eggs.

2- Serological test

**Necropsy finding:**

1-necropsy examination are not usually undertaken for diagnosis purpose

**Differential diagnosis:**

1- FMD does not occur in hors

**Treatment:**

1- Nonsteroidal anti-inflammatory.

**Control:**

2- Hygienic and quarantine precaution to contain the infection within herd.

3- Formalin-killed, cell culture derived vaccine is on two injections are needed.