Presentation: Malaise, salivation, lameness that spreads quickly within herd; Vesicles, erosions, ulcers on muzzle, in mouth/on tongue, teats, and coronary bands.

REPORTABLE worldwide - One of the most contagious animal diseases known

- High fever
- Drooling w/ viscous, sticky saliva, lip smacking, bruxism
- Lameness, unwilling to move, foot 'stomping', shifting feet
- Poor milk production, agalactia
- Vesicles, erosions-tongue, lips, gums, teats, betw claws, pressure pts
- Abortions; Neonatal disease/death

DDX:

<table>
<thead>
<tr>
<th>Cattle:</th>
<th>Swine:</th>
<th>Sheep:</th>
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<tbody>
<tr>
<td>Bluetongue</td>
<td>Malignant catarrhal fever</td>
<td>Vesicular Stomatitis**</td>
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<tr>
<td>Bovine Herpes-1</td>
<td>Bovine parapox virus</td>
<td>Vesicular Exanthema**</td>
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<tr>
<td>Vesicular stomatitis</td>
<td>(papular stomatitis)</td>
<td>Swine Vesicular Ds**</td>
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<tr>
<td>Bovine Viral Diarrhea</td>
<td>Infectious Bovine Rhinotracheitis</td>
<td>Bluetongue</td>
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<td>Contagious ecthyma</td>
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</tbody>
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Test of choice: Several available-situation determines which test is/are used (ie: Testing for surveillance, carriers, investigate outbreak)

- ELISA, PCR, Virus Isolation, EM microscopy, CF
- Samples - vesicular fluid, epithelium, exudates, pharyngeal/esophageal fluid, milk, semen, blood
- Approved labs perform initial testing. Special reference labs do confirmatory testing

Prognosis:

- Good - survival of infected individuals, Poor - overall health of herd and economic outcome
- Guarded in neonates, nursing animals

Prevention:

- **Euthanasia** of all positive & in-contact animals;
  - Carcasses are burned or buried
  - Maintain **strict movement/entry requirements**
- **Quarantine +/- vaccination**
  - Killed vaccine – immunity - 4-6 mo.
  - Thorough **disinfection** - pH <6 or >9
  - premises, equipment, etc.

Pearls: **Severe economic impact** - Production losses **Export/travel bans on animals and products; within and between nations**