Think Foot-and-Mouth Disease when you see...

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Blisters and Excess Salivation
Click image to start movie

Foot-and-Mouth Disease
Think Foot-and-Mouth Disease when you see...
Think foot-and-mouth disease when you see cattle with excessive salivation
Foot-and-Mouth Disease

Image courtesy of Dr Tom McKenna

Foot-and-Mouth Disease
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Foot-and-Mouth Disease
Foot-and-mouth Disease
Foot-and-mouth Disease
Foot-and-Mouth Disease
Lesions in cattle

Foot-and-Mouth Disease
Foot-and-Mouth Disease
Foot-and-Mouth Disease
Foot-and-Mouth Disease
Blisters on the tongue

Day One

Foot-and-Mouth Disease
Blisters on the tongue

Blister on bovine tongue

http://www.fao.org/Regional/LAmerica/prior/segalim/animal/aftosa/default.htm

Foot-and-Mouth Disease
Blisters become erosions

Salivation increases as vesicles form and rupture. Symptoms increase in intensity.

Day Four

Foot-and-Mouth Disease
Blisters become erosions

Day Four

Salivation increases as vesicles form and rupture. Symptoms increase in intensity.

Day Six

Foot-and-Mouth Disease
Animals may recover in 2 weeks. Only 1-5% die from FMD

Days 8-14

Foot-and-Mouth Disease
Foot-and-Mouth Disease
Foot-and-Mouth Disease
Foot-and-Mouth Disease
Think Foot-and-Mouth Disease when you see *lame cattle* – look for blisters between the toes
Lameness

- Coronary band lesion first appears blanched
- Blisters and erosions form between the digits
- Stamping and shaking of feet
- Trembling
Foot-and-Mouth Disease
Foot-and-Mouth Disease
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Foot-and-Mouth Disease
Foot-and-Mouth Disease
Clinical Signs in Cattle

Blisters form on:

**Mouth**
- Tongue
- Dental pad
- Gums
- Soft palate
- Muzzle
- Nostrils

**Feet**
- Inter-digital space
- Coronary band

**Teats**

Foot-and-Mouth Disease
Clinical Signs in Cattle

Rarely fatal except in young animals

Young calves may die without showing any clinical signs
In young animals there is focal necrosis of cardiac muscle. “Tiger heart”
50-80% young infected animals die
Extra-epithelial replication limited to myocardium, immature animals only

Foot-and-Mouth Disease
Recovery Phase

Recovered animals are permanently unthrifty
Recovery

Foot-and-Mouth Disease
Foot-and-Mouth Disease in Swine
Foot-and-Mouth Disease In Swine
Foot-and-Mouth Disease
Foot-and-Mouth Disease
Foot-and-Mouth Disease
Foot-and-Mouth Disease
Foot-and-Mouth Disease
Foot-and-Mouth Disease
Foot-and-Mouth Disease
Pigs – Reluctance to move, painful toes

Foot-and-Mouth Disease
Foot-and-Mouth Disease
Pigs – Reluctance to move

Foot-and-Mouth Disease
Lesions in Swine

Foot-and-Mouth Disease
Lesions in Swine

Foot-and-Mouth Disease
Lesions in Swine

Foot-and-Mouth Disease
Foot-and-Mouth Disease
Lesions in Swine

Blisters on teats and udders
Lesions in Swine

Mastitis

Foot-and-Mouth Disease
Foot-and-Mouth Disease
Clinical Signs in Sheep and Goats

When sheep or goats become infected with FMD, the disease may \textit{not} be diagnosed for a considerable time because the clinical signs may be very mild.
Foot-and-Mouth Disease
Foot-and-Mouth Disease

Lame sheep
Signs in Sheep and Goats

Foot-and-Mouth Disease
Foot-and-Mouth Disease

Signs in Sheep and Goats
Foot-and-mouth Disease in sheep

Lameness
Foot-and-mouth Disease in Sheep
Lesions in Sheep

Foot-and-Mouth Disease
Lesions in sheep

Foot-and-Mouth Disease
Lesions in sheep

Foot-and-Mouth Disease
Lesions in giraffe

Foot-and-Mouth Disease
Lesions in elephants

Foot-and-Mouth Disease
Bibliography


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Bibliography


O.I.E.


Personal interviews with Dr Logan, Dr McKenna, Dr Coetzer, Dr VanVuuren and Dr Waldrup
Foot-and-mouth Disease

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