Unit : Hypocalcemia In Cattle
Lesson : 2

Pathogenesis and Clinical findings

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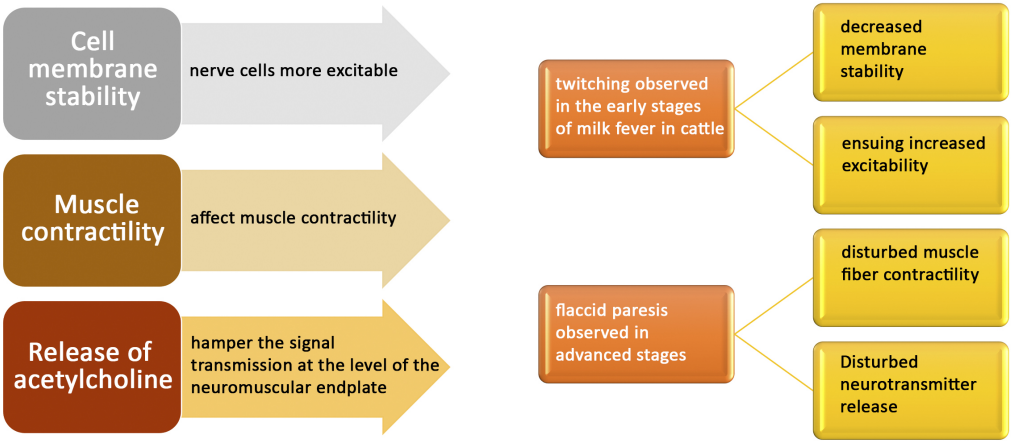
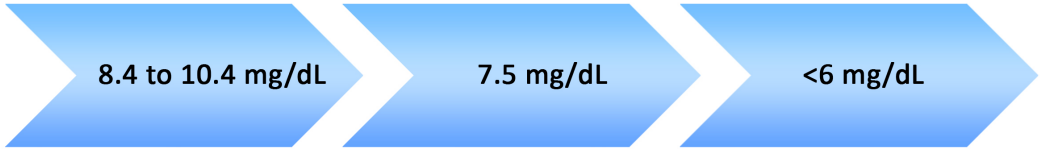
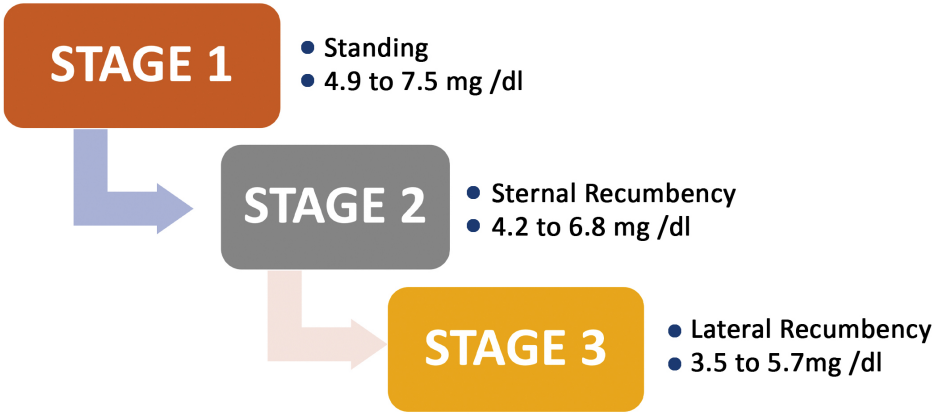
Pathogenesis



Serum calcium levels



- Normal
- Sub-Clinical Hypocalcemia
- Clinical Hypocalcemia


STAGE 1
Standing
4.9 to 7.5 mg /dl
STAGE 2
Sternal Recumbency
4.2 to 6.8 mg /dl
STAGE 3
Lateral Recumbency
3.5 to 5.7mg /dl

Stage 1 (STAGE OF EXCITEMENT)

- Cow is still standing
- Muscle tremor of the head and limbs
- The rectal temperature is usually normal to slightly above normal
- Disinclination to move & eat
- Grinding of teeth
- Protrusion of tongue
- Agalactia
- Rumen stasis
- Scanty feaces

Stage 2 (Sternal Recumbency)

Sternal recumbency with lateral kink of head & neck

- Cold skin & extremities
- Subnormal temperature (36-38°C)
- Dilated pupils & absence of reflexes
- Heart rate-80bpm & decreased heart sound
- Pulse weak & Difficult to raise the jugular vein
- Bloat, Constipation

Thank you