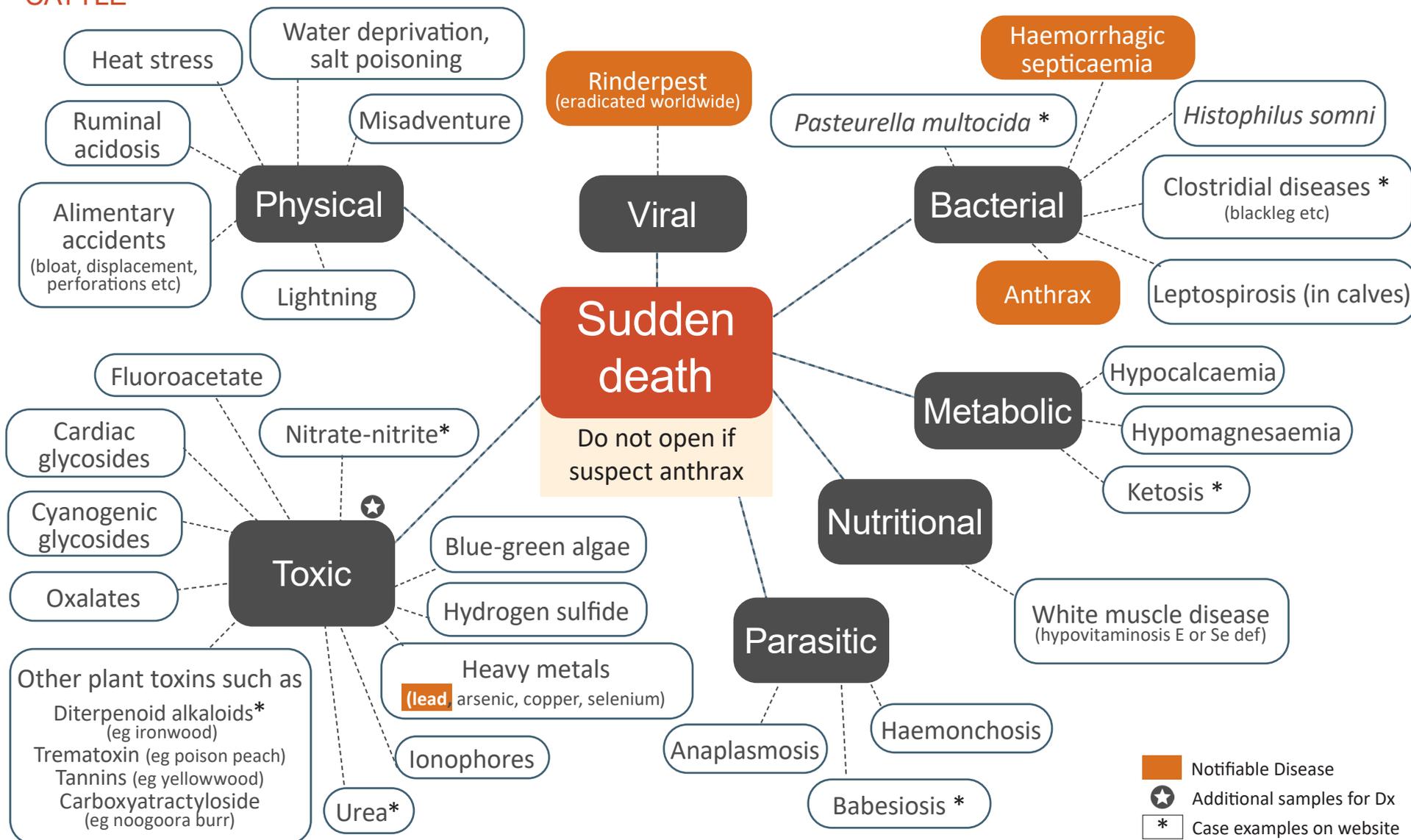


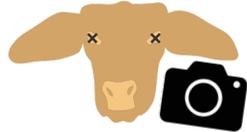
Mind map Sudden death syndrome



CATTLE



- Notifiable Disease
- ★ Additional samples for Dx
- * Case examples on website

Post mortem		
	Fresh	Fixed
	Individual, labelled, chilled	Pooled, formalin
Ocular fluids	<input checked="" type="checkbox"/> frozen	
Brain	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Liver	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lung	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Kidney	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Spleen	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Heart	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rumen contents	<input checked="" type="checkbox"/>	
Abomasum / forestomachs		<input checked="" type="checkbox"/>
SI / LI / IC valve		<input checked="" type="checkbox"/>
Skeletal muscle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Any lesions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ante mortem (from cohorts)		
Bloods *3		
Blood smear		

Sudden death Sampling

Sampling considerations

- Several significant EADs.
- Need thorough history.
- Differentiate between ‘sudden death’ and ‘found dead’.
- Lab focus is on infectious, parasitic, metabolic and toxic causes.
- Ocular fluids for suspect urea/ammonia, nitrate or phalaris toxicosis and for metabolic disease.
- Some sampling of live clinically affected cohorts may be useful.
- **Do not open carcass if suspect anthrax.** Wear PPE and take thick air-dried smears of bloody exudate and soil.

Additional samples

- ★ Tick fever exclusion: take organ smears - brain and kidney.
- ★ Suspect plant poisoning: (1) submit plant sample (or photos), where access by the stock is clear, (2) submit suspect plant fragments from rumen.
- ★ Suspect feed (eg ionophores): send feed sample, batch label and date, note batch details when problem started.
- ★ Blue-green algae: rinse container in water source, sample from multiple depths on the downwind side of dam, add 5 mL of formalin to 100 mL water to preserve cells.
- ★ Other suspected toxins - request tests for these - you may need to check with the lab about what to collect and how.