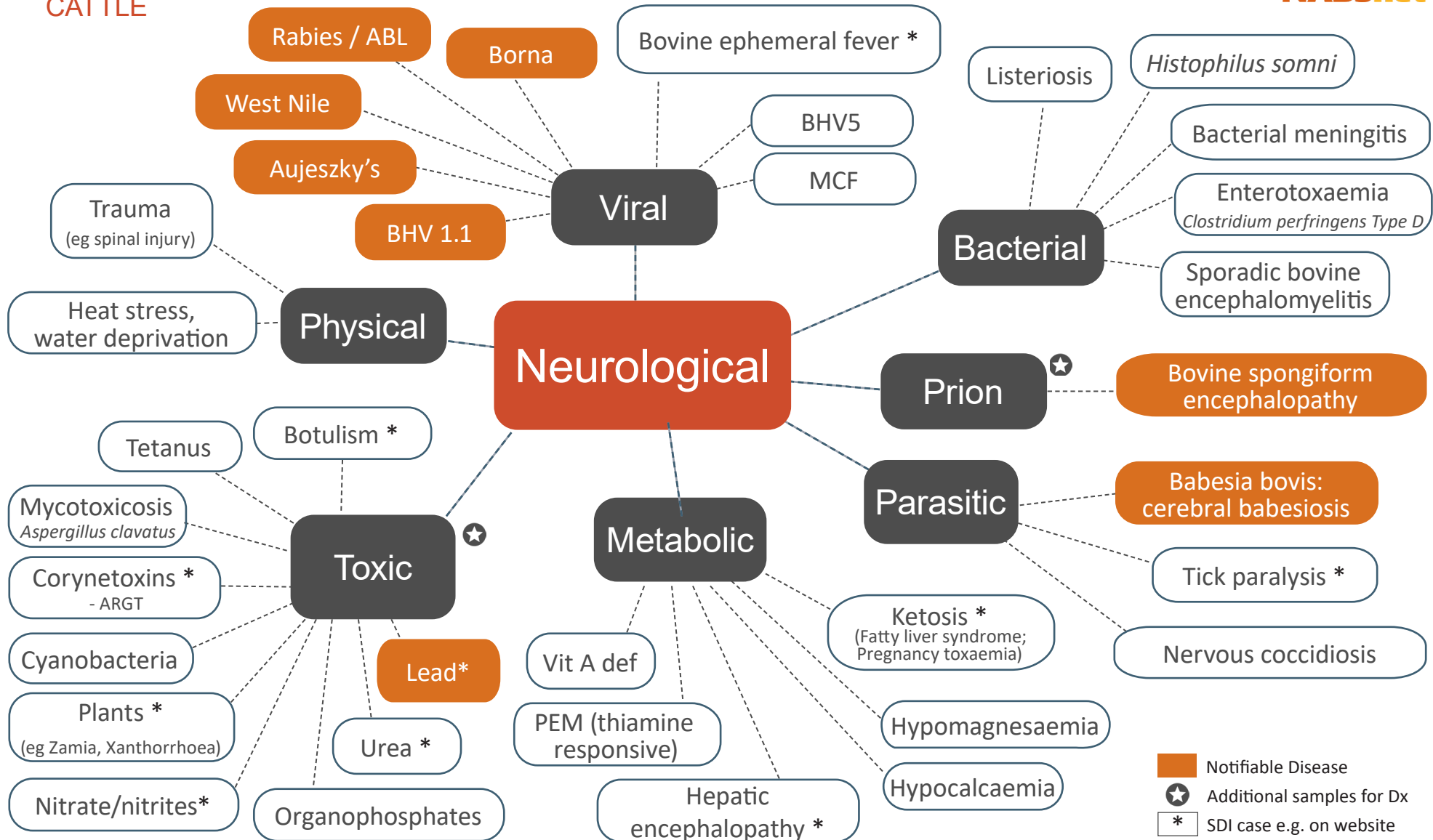


Mind map Neurological syndrome



CATTLE



- Notifiable Disease
- ★ Additional samples for Dx
- * SDI case e.g. on website

Neurological Sampling

Ante mortem		
Bloods *3		
Blood smear		
Faeces		
Post mortem		
	Fresh	Fixed
	Individual, labelled, chilled	Pooled, formalin
Vitreous humour	<input checked="" type="checkbox"/> frozen	
Brain	<input checked="" type="checkbox"/> ★	<input checked="" type="checkbox"/> ★
Brain squash	<input checked="" type="checkbox"/> dried	
Spinal cord (x2-3)	<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"/>
Skeletal muscle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Any lesions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Abomasum /fore		<input checked="" type="checkbox"/>
SI / LI / IC valve	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Sampling considerations

- Several significant EADs and zoonoses.
- Need thorough history. Videos are helpful to show signs.
- CNS samples required for full investigation.
- Some causes do not have gross or histological signs.
- Brain/brainstem swabs needed for culture and PCR. Liquid Amies swabs (e-swabs) are suitable for both. Or send swabs in solid agar for culture, and in VTM for PCR and viral culture.
- Vitreous humour for some toxicoses and metabolic diseases.
- Take bloods from live cohorts in metabolic disease.

Additional samples

- ★ BSE: intact fixed brainstem required.
- ★ Rabies: **zoonosis**, fresh and fixed brain and salivary gland.
- ★ Suspect plant poisoning: (1) submit plant sample, where access is clear (2) suspect plant fragments from rumen.
- ★ Suspect feed (eg mycotoxicoses): send feed sample, batch label and date, note batch details when problem started.
- ★ Suspect enterotoxaemia: 5-10ml of ileal content.
- ★ Suspect toxins e.g. botulism, ARGV: 50-100ml rumen fluid.