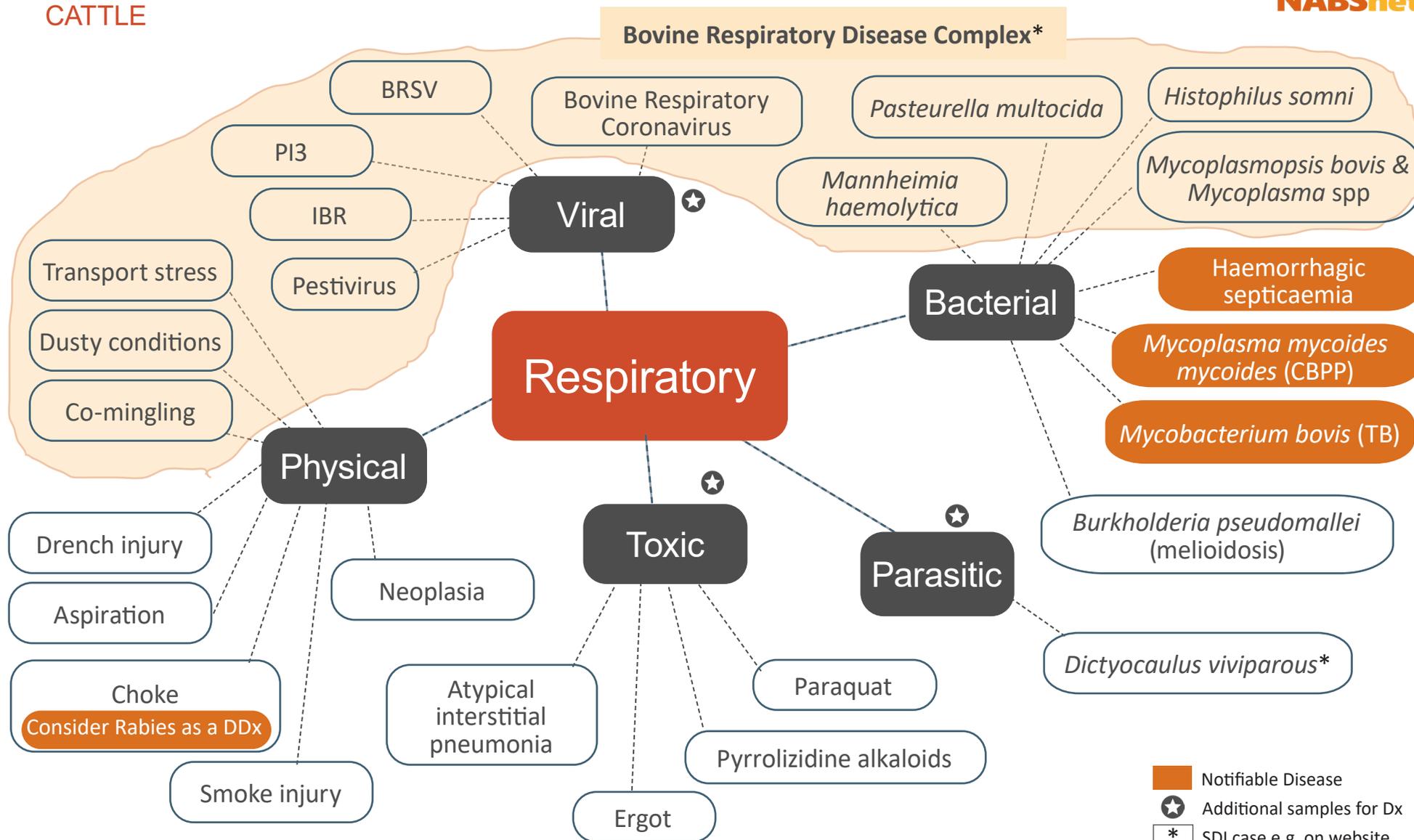


# Mind map Respiratory syndrome



CATTLE



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

# Respiratory Sampling

Ante mortem		
Bloods *3		
Blood smear		
Faeces		
Nasal swabs		
		
Post mortem		
	Fresh	Fixed
	Individual, labelled, chilled	Pooled, formalin
Lung	record % visibly affected	
	<input checked="" type="checkbox"/> ★	<input checked="" type="checkbox"/> ★
Trachea	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bronch lymph node	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pleural swab	<input checked="" type="checkbox"/> ★	
Liver	<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"/>
Brain	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Any lesions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Sampling considerations

- Several significant EADs.
- BRDC has many potential pathogen combinations and physical risk factors.
- Swabs from lungs, trachea, bronchial lymph nodes and pleurae needed for culture (bacteria, mycoplasma) and PCR (viruses, mycoplasma). Liquid Amies swabs (eSwabs) are suitable for both, or send swabs in solid agar for bacterial/mycoplasma culture, and in VTM for PCR.
- Send fresh and fixed samples of affected and unaffected lung and the margins between them – lesions may be subtle. Samples just from the ‘sharp’ edges of the lung may miss a range of airways.
- Bloods needed for pestivirus antigen/antibodies, viral antibodies (bacteria may be secondary invaders).
- Nasal swabs from live animals can be used for PCR (viruses).

## Additional samples

- ★ Suspect lungworm: send faecal samples
- ★ Suspect feed (e.g. ergot): send feed sample, batch label and date, note batch details when problem started.
- ★ Suspect toxins: 100 mL rumen fluid and 100 g liver.