



## SAC Veterinary Services

*SAC Consulting is a division of SRUC*

*Leading the way in Agriculture and Rural Research, Education and Consulting*

### Lab diagnostics



- Serology – bloods/milk
- Biochemistry
- Virus/PCR
- Bacteriology
- Parasitology
- POST MORTEMMS
- Individual/monitoring

## Surveillance

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- Monitor disease trends
- Specific coded diagnosis
- Emerging conditions
- Notifiable diseases

## Post mortem diagnostics

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- Examine whole carcass
- Better results
- Sample lesions more accurately
- Additional tests included

## Bovine pneumonia



- UK £50 m/year
- £30-80/animal, £500/death
- Most common cause of death/poor performance weaning- 10 months
- 30% signs, another 40% lung damage
- Hidden costs
- Increase loss @ 12-18 months if affected as calves

## Bovine pneumonia



virus	bacteria	parasites
IBR	Pasteurella	Lung worm
RSV	Mycoplasma	
PI3	Haemophilus	
BVD	Salmonella	



## Bovine pneumonia

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- Understand what you dealing with
- Best way to manage /prevent
- Multifactorial conditions
- Antibiotic stewardship

## Outbreak

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- Sample early- secondary causes may mask
- Nasal swabs- virus detection
- Paired serology
- Bacterial cultures
- Faecal samples
- **POST MORTEM**





## Sudden death

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- Unavoidable loss
- Preventable problem



## Causes

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- Clostridial disease
- Pasteurella
- Toxicity
- Plant toxicity
- Grain overload/acidosis





## Nutrition

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- Deficiencies
- Routine bloods/monitoring
- Poisoning/toxicity
- Post mortem



## Nutrition



## Abortion



- Over 2% / 3% losses/clusters
- Often more than one cause
- **Placenta**





## Outcome

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- Negative still a positive
- Answers not always obvious