

Pneumonia



Welcome

Westruther
7 November 2017



The European Agricultural Fund
for Rural Development
Europe investing in rural areas



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What is it?



- Inflammation/damage to lungs
- Cattle are prone – small lungs
- Multifactorial
 - most causes often present
 - trigger/reduced immunity needed
- Prevention based on
Disease/Animal/Environment



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Consequences



- UK £50m/year
- £30-£80/animal, £500/death
- Most common cause of death/poor performance between weaning and 10 months
- If 30% group show signs, another 40% have lung damage
- Hidden costs:
 - growth rates (0.2 kg/day); medicine/vet; mortality/culling; replacement costs/risks
- Increased losses in 12-18 month cattle if infected as calves



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Prevention - Disease



- Find out what you are dealing with:
- Endemic:
 - Always present:
 - Pasteurellae (*M. haemolytica*, *P. multocida*, *B. trehalosi*)
 - *A. pyogenes*
 - Maybe present:
 - Viruses RSV/P13/IBR; *Histophilus somni*; *Mycoplasma bovis*
 - Test 8 – 14 month old after housing, single serology



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Current outbreak



- PM
 - Most useful
 - Subsidised – any tests needed
 - Fresh as possible (within 24 hours)
- Nasopharyngeal swabs
 - PCR for viruses? vaccine
 - Bacterial culture – antibiotic sensitivity
- Paired serology
 - delay of 2 weeks between samples



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Types of pneumonia



- Bronchopneumonia (suppurative or fibrinous)
- Caseonecrotic (*M. bovis*)
- Interstitial (pasture or feedlot)
- Bronchointerstitial (viruses)
- Aspiration/embolic/lungworm/tuberculous



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Vaccination



- Primary course finished 2 weeks before housing
- Bought in animals – purchase direct vaccinated animals or certified vaccinated through mart
- Discuss strategies with vet for
 - Young autumn-born
 - Spring-born
 - Yearlings



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Prevention - Animal



- Improving cattle immunity, reducing stress and concurrent disease
- Colostrum
- Reducing stress
 - Weaning, mixing, castration/dehorn before housing, housing, diet change, environment, trace elements, vaccination, other diseases e.g. BVD, parasites
- What to measure?
 - Body condition, growth rate
 - Laboratory
 - Colostrum ZST
 - Other diseases – fluke, BVD
 - Trace elements



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Prevention - Environment



- Ventilation
- Humidity
- Draughts
- Stocking densities
- Bedding conditions
- Trough space/water

- Groups similar age/size to reduce stress
- Bought in cattle- separate airspace



Thank You

