Topical Issues Lameness and Pneumonias In Housed Sheep



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One sheep is another sheep's worst enemy

Spread of Infectious Disease

Lameness
Respiratory Disease
Lice/Scab
Abortion
Rattlebelly/Joint ill
Orf

Lameness



10% of national flock (3,000,000 sheep) lame at any one time

Causes of Lameness

Footrot
Scald
CODD
Abscess
Toe Granuloma
Shelly Hoof



Causes of Lameness

Identification
Causes and route of spread
Treatment
Prevention and control in housed sheep



Lesion 1

Varying severity of lameness • Ewes and lambs affected • Can be epidemic • Pink/red, wet interdigital space • White/grey pasty scum - smells



Lesion 2

• Varying degrees of lameness • Can be several in flock affected Separation of horn from the underlying live tissue Foul smelling, greyish, oozing pus



Footrot very variable, but smell typical



Lesion 3

• Severe lameness • Up to 40% flock affected initially – ewes and lambs • Red raw lesion starts at the top of the hoof, rapidly leads to horn separation • May smell



Footrot

- Caused by bacteria Dichelobacter nodosus
- Off the sheep survives 7 10 days on pasture, 6 weeks in horn clippings
- Likes warm, moist environment
 Carrier sheep



Scald

 Bacterial infection of interdigital skin, Fusiformis necrophorum or D. Nodosus
 Scald = early stage footrot



CODD

Contagious Ovine Digital Dermatitis
 Related to digital dermatitis in cattle (Treponemes)
 Infection starts at top of hoof
 Whole hoof can drop off



FootrotCODD

Scald

Treatments

Antibiotic injection & spray all 4 feet Antibiotic injection & spray all 4 feet Lambs – spray all 4 feet ewes – antibiotic injection & spray all 4 feet

Antibiotic Injections

Alamycin LA
Hexasol LA
Micotil (Zactran)

9 day meat withhold5 day cover & painkiller



50% recover within 2 days after antibiotic injection compared to 10 without injection



Footparing

• Do not pare feet with active infection present Allows infection into foot Causes pain Infection spread on foot trimming shears • Weight should be taken on wall of hoof

Trimming feet with footrot delays healing



Avoid Trimming

Use time to inspect and treat lame ewes

 If not convinced, try leaving feet and see what happens (35% of random sample of 1300 farmers not routinely foot trimming in 2013)



Avoid Trimming

Two examples of overgrown horn the integrity is good and the sheep is sound

Horn grows at 3 inches / year!





 Very Overgrown Feet-Shelly Hoof
 If very overgrown –

Use sharp clean trimming equipment
Trim leaving the wall edge ¼ inch below sole all around the claw for sheep to walk on
Clean clippers with disinfectant spray between feet

Results of Lameness Quiz Farmers can recognise lame sheep – even mildly lame • 20% did not catch and treat individual sheep at all lameness – reported 15% lameness in their flock • Those that catch all lame sheep (even one in a field), catch - within 3 days • when less severely lame • Level of lameness in flock <5% lame • Those that wait until several lame 10%lameness

Lowest levels of Lameness

Treat within 3 days
Appropriate treatment
CODD, footrot and scald in ewes
Antibiotic injection and spray
Correct dose, long acting antibiotic
Do not trim feet



Footbath to manage scald epidemics

- Plan ahead and ensure equipment is in excellent order
- Ensure feet are clean before footbath
- Stand sheep on a hard surface for at least one hour after footbath
- Always follow the instructions of the products used
 - Using chemical concentrations that are too high will cause damage to the sheep's feet and cause lameness
 - 10% for zinc sulphate for at least 2 minutes, depending on the product
 - Maximum of 3% formalin as a walk-through solution (can be painful on exposed lesions)
- Uses lambs in spring, housed sheep if necessary
- NOT EFFECTIVE to treat footrot



This was reported to be the footbath for a 600 ewe flock

The 5 Point Plan



Cull

- Lame ewes spread infection to the rest of the flock
- Keep a record of lame sheep ear tag, spray mark
- Cull:
 - Sheep treated for footrot more than once
 - Sheep with badly misshapen feet, including replacement lambs
- Do not breed from:
 - Lambs from ewes/rams repeatedly lame with footrot

• BE TOUGH – Two strikes and she is out!

Avoid spread of Disease Inspect, treat and separate lame sheep at housing Improve underfoot conditions – clean bedding/lime Footbath clean group if appropriate and facilities allow



Treat

• Disease spreads quickly Ocatch lame animals asap – even mild cases • Focus on a minimum of 1/3 flock each day Inspect and Diagnose Treat appropriately Footrot / Scald / CODD • Do not trim • Use appropriate antibiotic injection and spray Mark and record

Quarantine

- Buy in from known source (ideally visit farm!)
 - Reject any lame sheep
 - Avoid CODD
 - Enquire about vaccination status and vendors lameness policy

 Quarantine returning/new sheep for >21days

- Inspect all feet and footbath / treat on arrival
- During quarantine treat promptly if become lame
- Consider vaccination in discussion with vet
- Only add to flock once sure healthy

Vaccination

Licensed vaccine available
Timings should coincide with high risk periods
Vaccine should be used as part of a 5 point plan
Vaccinate whole flock (including rams)
Once / twice per year before expected peaks in footrot
Care when using vaccine

 Wear gloves and use a safety vaccinator, lumps at injection site can occur

• Discuss strategic use and timings with your vet

The 5 Point Plan



Respiratory Disease in Housed Sheep

Pasteurellosis
Mycoplamas
Lungworm *
Jaagsiekte



Pasteurellosis

 Pasteurella pneumonia (Mannhaemia Haemolytica)
 Pasteurella septicaemia (Pasteurella Trehalosi)
 Found in tonsils of healthy sheep
 Stressors/trigger factors cause bacteria to multiply up → clinical disease

Pasteurella Septicaemia

Sudden death

 Horned hoggs away wintering on lowland farms or store lambs finished on lowland farms

- Trigger factors:
 - Transport
 - Change in plane of nutrition
 - Cold, wet weather



Pasteurella Pneumonia

 Dull, high temperature, breathing heavily and not eating. Watery discharge from eyes and nose. Stand back from group.

- Trigger factors:
 - PI3
 - Mycoplasma infection
 - Clipping, shearing, worming, housing



Treatment and Control

- Antibiotics and anti-inflammatories for treatment
- Preventive antibiotics in face of outbreak (septicaemias)
- Vaccination
- Ventilation in buildings
- Management of fluke, worms, trace elements etc

Vaccinations

• Heptavac P, Ovivac P, Ovipast Plus • Contains most common strains Initial 2 doses 4-6 weeks apart from 3 weeks of age Annual • Colostral protection passed to lambs for ≈ 3 weeks • Aid in the control of Pastuerellosis

Ventilation in Buildings
Maximise fresh air, avoid draughty buildings
Reduce dust/ammonia levels in air
Reduce bacterial/viral concentration in air
Reduce air humidity

 Avoid over crowding (1.5m²/ewe)



Mycoplasma Pneumonia

Lambs less than 1 year old especially when housed
Coughing, reduced growth rates, not ill
Increased susceptibility to pasteurellas
No vaccine – sensitive to antibiotics
Avoid mixing with older sheep when housed

Lungworm*

 Very rarely causes clinical disease in lambs or sheep
 All wormers effective against lungworm



Jaagsiekte

• Chronic viral disease of sheep • Causes tumour development in lungs Incubation period 2-4 years • Weight loss, progressive respiratory distress, excessive nasal discharge Il% Scottish flocks affected • Can also cause sudden death • 'Wheelbarrow' test

Jaagsiekte





Jaagsiekte Control

Spread by nasal secretions
Cull suspect cases
Do not breed off offspring of suspect cases
Minimise trough feeding, reduce housing period
Separate age groups

Any Questions?



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