

Metabolic Disease

Diseases affecting the sheep's nervous system can affect sheep at all ages and points in the production cycle, presenting with a number of different signs including: blindness, depression, nervousness, scratching, circling or difficulty walking or standing.



Pregnancy toxaemia/Twin lamb disease

Occurs in late pregnancy in ewes carrying multiple lambs and usually affects thinner ewes that have not received enough concentrate. First signs are usually loss of appetite, a ewe separating herself from the flock, standing still and seeming blind. The appearance of twin-lamb in one ewe is an indication that flock nutrition levels may be a problem and should be assessed in addition to individual treatment. Many cases are difficult to treat without aborting the lambs.

- Treat immediately with Twin Lamb Drench or Ketol. Repeat in a few hours. Offer good hay and concentrates
- If the ewe does not respond in a few hours seek veterinary assistance
- To control condition score ewes, scan for lamb numbers and plan appropriate diet based on forage analysis

Feed according to the number of lambs carried and the ewes condition score.

Hypocalcaemia

In contrast to the equivalent condition in cattle (milk fever), Hypocalcaemia tends to be seen in late pregnancy rather than early lactation. Ewes in any condition can be affected, particularly following stress e.g. gathering for housing/vaccination. Ewes have difficulty walking or lie down, are depressed and may develop bloat.

- Some ewes respond to 50-100ml Calcium 20% (blue top) under the skin
- If the problem isn't cured, intravenous calcium is required – condition can progress to death in a few hours
- Control can be difficult watch the flock closely after gathering and have calcium injection handy

Perhaps the most common and significant neurological disorder, metabolic disease tends to affect adult sheep. particularly around lambing time. Early treatment improves the outcome. Having a standard onfarm treatment protocol is important. If the animal does not respond to treatment seek veterinary assistance. The three diseases below are often difficult to distinguish, particularly close to lambing.

Hypomagnesaemia

Hypomagnesaemia nearly always occurs at peak lactation. Lush grass is low in magnesium so ewes are at risk when grazing this pasture type. Signs: excitability, shaking and convulsions. Death follows rapidly (ewes are often found dead).

- If cases are found, give 50ml Magnesium Sulphate (black top) under the skin
- If ewe does not recover, veterinary treatment is required
- Watch the flock closely after moving onto lush pasture. Have magnesium injection handy. In high risk flocks, magnesium supplementation can be given by enriched cake, rumen bullets or licks



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Scrapie

This infectious, untreatable, fatal brain disease is a Transmissable Spongiform Encephalopathy (TSE) and is in the same group as BSE in cattle. Resistant to all disinfectants, Scrapie can persist in the environment for years.

Tending to arise in older animals with only one or two sheep being affected at any one time, clinical signs include scratching, nervousness, weakness and weight loss. The eventual outcome is death.

Genetics determine how likely an individual is to develop scrapie. By breeding only from the more resistant genotypes, the national flock will eventually become less at risk. This is the concept behind the National Scrapie Plan (NSP) - for more information go to the DEFRA website at www.defra.gov.uk

Swayback

Swayback affects lambs when ewes have had low copper concentrations in late pregnancy through insufficient copper in food or pasture, or copper being 'locked up' by other minerals in grass/soil. Suspected copper deficiency must be treated with caution as too much copper is poisonous.

Border disease/hairy shaker lambs

The classic example of this viral infection is the 'Hairy Shaker' lamb. Lambs have a long hairy coat, trembling muscles and most grow slowly and fail to thrive. Hairy Shaker lambs result from ewes meeting the Border Disease virus for the first time in early pregnancy. Most commonly this results in abortion, occasionally unborn lambs survive becoming persistently infected (PI) which are likely to be weak, and will continually shed virus. Not all PI's are weak and hairy - they may go on to breed, perpetuating the problem. Eradication can be attempted; however, it may be more practical to deliberately expose all future breeding stock to the virus. This is a crude form of vaccination, achieved by carefully mixing future breeding stock with Hairy Shakers.



Other Neurological diseases

Other diseases causing neurological symptoms are numerous, including Louping ill, Listeriosis, Gid cyst, Cerebro-cortical necrosis and Daft Lamb Disease. The exact disease is not always obvious and it is worth seeking your vet's opinion. A diagnosis is often possible and treatment may well be successful, with prevention of further disease achieved for the future.





For further information contact your local XLVets practice:

