



Discussion:

 13 flocks appeared to achieve control at birth cohort level through ram genotyping, these took no other action that would have affected the course of the epidemic.

Other farms were affected by culls or FMD in 2001.

 NSP group 1 to 3 rams were used. Ram genotypes were not known for all animals. The flock owner was able to use a breeding strategy appropriate to his own situation. •Clinical scrapie controlled, not necessarily infection – some farms had sufficient follow up to indicate control of infection likely, others not.

•Achieved at <u>birth cohort level</u> - clinical epidemic declined, the confirmed epidemic continued. If genotype targeted cull, an immediate decline would have occurred.

Conclusion:

Breeding strategies, as controlled by the flock owner, utilising rams of genotypes not exclusively NSP group 1, appears to achieve control of clinical scrapie epidemics at the birth cohort level.

Further work

In depth cohort analysis

Investigation of infection in sheep from these flocks











References:
1. Department for Environment, Food & Rural Affairs (2004). National Scrapie Plan: Scheme Booklet and Contract: Voluntary Scrapie Flocks Scheme
2. Department for Environment, Food & Rural Affairs (2005). Scheme Booklet: Compulsory Scrapie Flocks Scheme
This work is part of a Defra funded project investigating the epidemiology of scrapie

Contact: Sue Tongue BVSc MSc MRCVS, Epidemiology Group, Centre For Epidemiology & Risk Analysis, VLA Weybridge, Surrey, UK, s.tongue@vla.defra.gsi.gov.uk Veterinary Laboratories Agency (VLA) - An Executive Agency of the Department for Environment, Food & Rural Affairs

Crown Copyright 2006