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Ovine Progressive Pneumonia



- OPP
- Visna-Maedi
 - Wasting
 - Shortness of breath
- Iceland
- Montana
 - **1923**

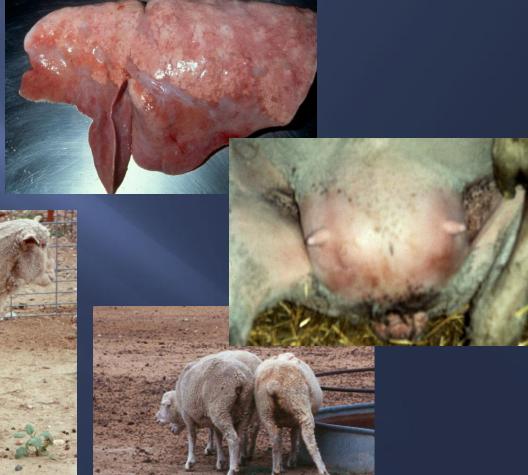
- Retrovirus subfamily of Lentivirinae
 - CAE caprine arthritis-encephalitis
 - VV Visna virus
 - OPP Ovine Progressive Pneumonia
- Lenti slow
 - 1-2 yrs
- Contagious
 - Colostrum
 - Aerosol
 - Ingestion
- **■** Environment?



Syndromes of the disease:

- Pneumonia
- Arthritis
- Visna nervous
- Mastitis





Diagnosis / Testing

- AGID Agar Gel ImmunoDiffusion
- ELISA Enzyme Linked **ImmunoSorbent** Assay
- PCR Polymerase Chain Reaction
- **Complement Fixation**
- ?Genetic-Geneseek
 - Lower susceptibility



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Control

- Testing
 - Cull / separate herds



Prevention

- Only purchase test negative animals from a "clean" herd.
- Will the genetic test facilitate this?
 - TMEM 154 haplotype 1 = low susceptibility



- 87% of sheep operations in the US72% of the sheep in the US
- 36.4% of sheep operations had 1 or more animals test positive for OPP
- 2 x's the number of large operations as small operations with positive animals.
- Large operations had 4x's the number of sheep testing positive than small operations.

Depending on...

- Prevalence of disease within a flock
- Management
- Overall goals of the flock

We see...

Increased evidence at stressful times...trailing, lambing...

- ↑ in pregnancy toxemia
- ↑ mastitis hard bag
- ↑ lamb starvation
- variable sized lambs tw, tr
 (unfair competition, orphaning,
 stealing milk spreading the
 virus more)
- † symptomatic disease signs



Economic Effect

- Increased labor requirements
 - Costs associated
- Decreased weaning weights & percentages
- Increased treatments
 - Labor cost
 - Medicine cost
- Increased ewe death loss
- Increased cull rates
- Decreased productive life
- Increased ewe replacement







Ram Breeding Soundness Evaluation

