

Pestivirus infection in Northern Ireland ovine and caprine populations

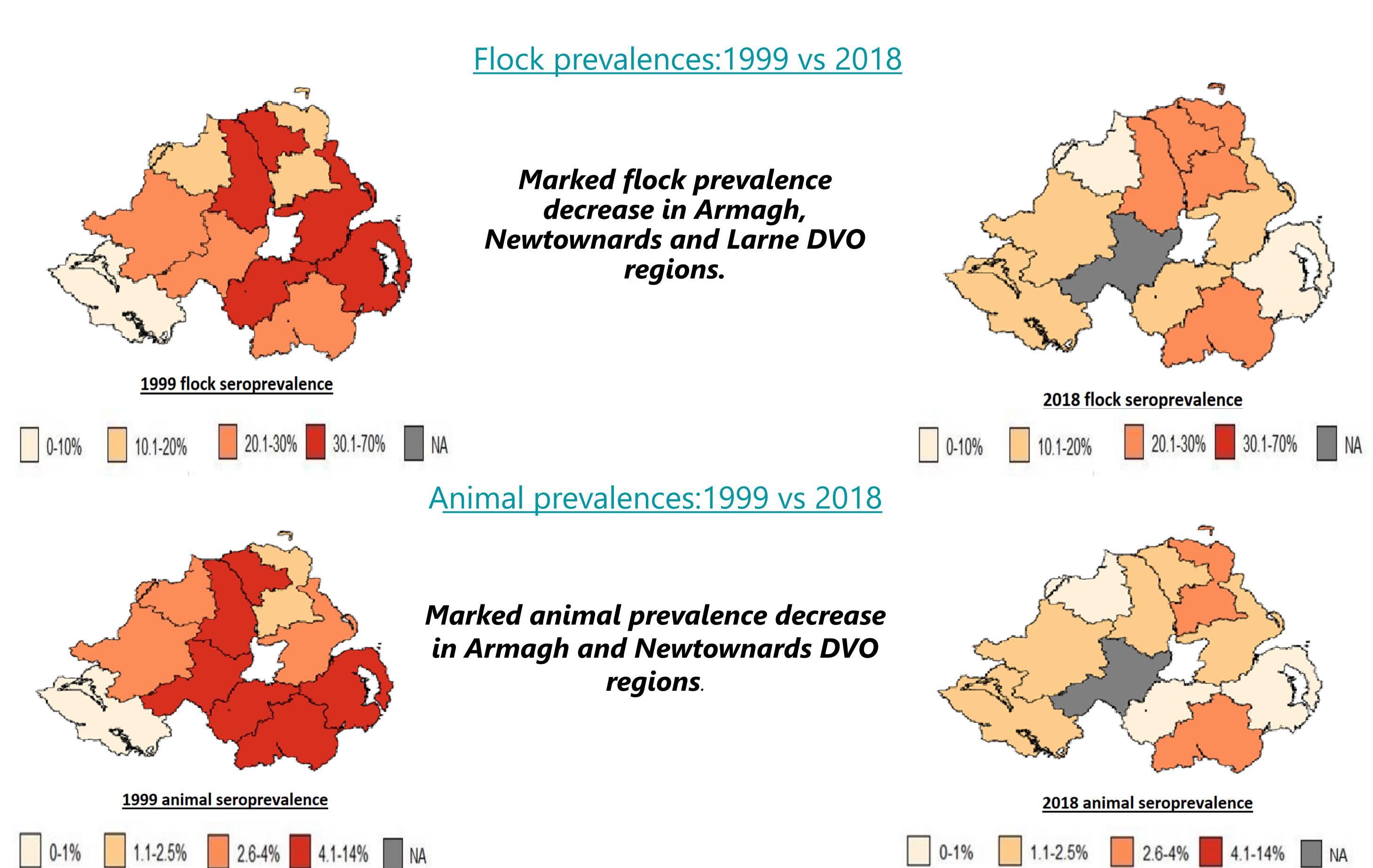
Emma Campbell, James McConville, Joe Clarke, Aoibheann Donaghy, Asa Moyce, Andrew W. Byrne, Sharon Verner, Sam Strain, Paul Bourne, Maria Guelbenzu-Gonzalo Contact: emma.campbell@afbini.gov.uk

Introduction and methods

- Bovine viral Diarrhoea (BVDV) and Borders disease (BDV) causes infertility, abortion, stillbirth and small and weak offspring.
- Need to evaluate possible reservoirs of infection and prevalence in N. Ireland.
- Antibodies tested for using ELISA assay.
- SNT used to differentiate between BVDV and BDV infection.

Results

- 197 flocks & 3418 animals participated.
- Animal prevalence of 1.7%.
- Flock prevalence of 17.3%.
- Mean flock prevalence of 9.7%
- 52.6% sheep infected with BVDV.
- 13.1% decrease in flock prevalence between 1999 & 2018.



Discussion

- Northern Ireland BVD eradication programme works.
- Has a secondary effect on other pestivirus infections in sheep and goat populations.
- Sheep and goat flocks may present BVDV (re) infection reservoirs.
- Further work needed to elucidate other factors.
- Potential for un-examined wild host populations to also act as virus reservoirs.
- Currently working on genetic sequencing.