

BVD is widespread:

- 95% of dairy herds show evidence of past exposure (BVD antibody detectable in bulk tank milk)
- At of 2015, approx. 60% of dairy herds were "actively infected" (s:p >0.75)

Contact with PI animals is the source of active BVD infection. So, BVD control requires two phases:

Find and eliminate Pls

- Monitoring
- Culling PIs
- Prevent new Pls from being created
 - Biosecurity
 - Vaccination

MONITORING

BVD antibody testing

- Blood or milk samples from >9 animals
- Indicates herd's level of past exposure to PIs
- Higher group antibody = more recent & widespread
 PI exposure
- S:P > 0.75 means there may be a Pl in contact with the herd now: "active" BVD infection

BVD virus testing

- Blood, milk or body tissue (ex: ear notch) from one or more animals
- A positive test means an animal which has been tested is either a PI or is transiently infected
- Isolate and retest positive animals (or cull them straight away)
- Cull all confirmed PIs ASAP they will always be a source of BVD infection!
- Get vet involved to find PIs or possible sources of PI contact

BEST PRACTICE MONITORING & CULLING PROGRAM FOR DAIRY FARMS:

- 1. Bulk milk testing
 - Antibody (s:p): 2-3 times per year
 - Virus test (PCR): necessary if bulk milk antibody is >0.75, or has gone up significantly since last test. Recommended 1-2 times per year, before mating, when all cows are contributing to the vat
 - Get vet involved: if you need to find a PI or a source of PI contact, they will be able to help!





- 2. Calf & purchased/leased animal testing
 - Virus test (PCR or Antigen ELISA) blood samples or ear notches
 - Cull/reject any PI animals you find
 - This checks how well your biosecurity and vaccination programs are working
- 3. Service bulls
 - Virus test (PCR or Antigen ELISA) blood samples or ear notches
 - Vaccinate (sensitiser & booster) 1 month before mating

Additional biosecurity & vaccination measures are necessary if your animals are ever at risk of PI contact.

REFERENCES

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- 3. MC Gates , CA Evans , C Heuer , H Voges & JF Weston (2021) Temporal trends in bulk tank milk antibody ELISA and PCR test results for bovine viral diarrhoea in New Zealand pastoral dairy herds, New Zealand Veterinary Journal, 69:2, 73-82.



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