

# Incidence

- BVDV occurs in herds world-wide.
- Incidence appears to be fairly consistent world-wide. It is impacted by cattle density and less so by seasons.
- Persistently infected (PIs) cattle range from 1 to 2% in a herd
- Serum Incidence follows basic principles of statistical binomial probability
  - If a pool of 1000 animals is used at 1% incidence then the pool will be positive 100% of the time
  - If a pool of 100 animals is used at 1% incidence then the pool will be positive 60% of the time (87% negative at 2% incidence)
  - If a pool of 20 animals is used at 1% incidence then the pool will be positive 20% of the time (33% positive at 2% incidence)
- Hence it is possible but expensive to reduce the BVDV burden

