

Pathogenesis

- Following viral entry and contact with the mucosal lining of the mouth or nose, replication occurs in epithelial cells
- BVDV infection of the dam prior to conception, and during the first 18 days of gestation, results in delayed conception and an increased calving to conception interval. If the embryo is attached, infection during days 29–41 can result in embryonic infection and resultant embryonic death.
- Infection of the dam from approximately day 30 of gestation until day 120 can result in immunotolerance and the birth of calves “persistently infected” with the virus
- BVDV antibodies do not pass the placental barrier between the dam and the fetus.
- Persistently infected dams always produce persistently infected fetus and calves. ⁷

