



REPRODUCTIVE HERD HEALTH

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ABORTION

Abortion

Abortion: 45-270 of pregnancy. days
Infectious
Non-Infectious





Infectious abortions

- BACTERIAL REASONS
- B.abortus, campylobacter fetus, leptospira, listeria
- VIRAL REASONS
- BHV 1, IBRV, BVD
- PROTOZOON SOURCES
- Neospora caninum
- MYCOTIC SOURCES

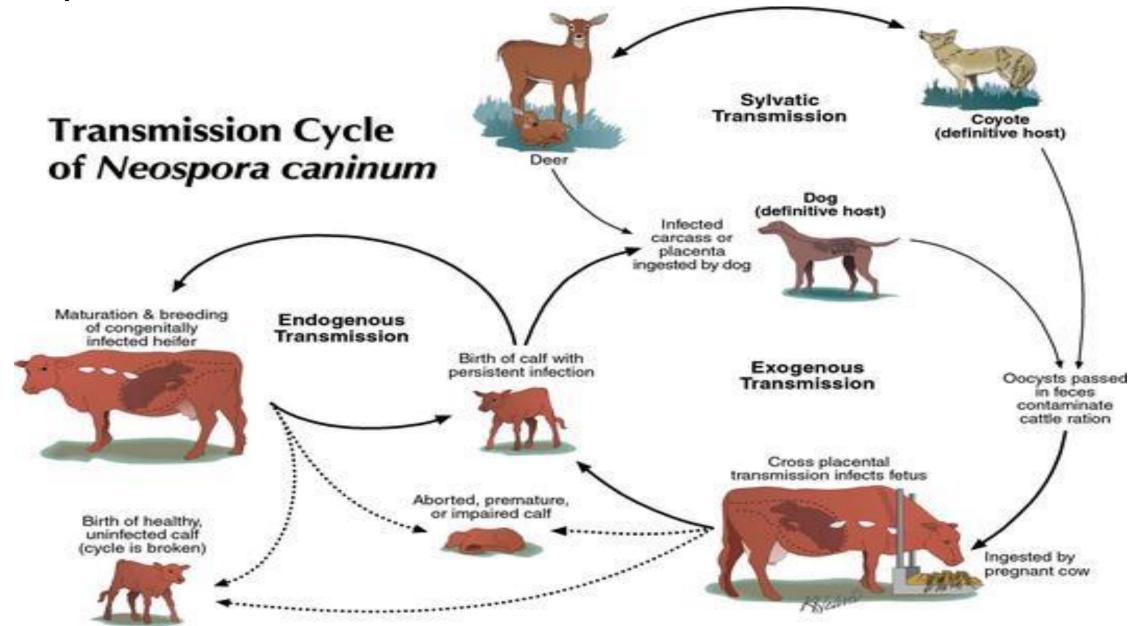
Specific Abortion Factors

- Brucella abortus
- Leptospira
 - hardjobovis
 - hardjoprajitro
- Listeria monocytogenes

- BVD
- BHV1



Neosporosis



Neosporosis

Infection Days	14. day	46.dat	60. Day and later
Antibody	ANTIBODY	ANTIBODY	ANTIBODIES CANNOT BE
Response	PRODUCTION	PRODUCTION	DETERMINED IN THE
	BEGINS		BLOOD

SPORADIC ABORTUS		
WIDE ABORTUS		
REPEATS ABORTUS		

Neosporosis

Under the Influence of Neosporosis

Resorption of the embryo can be formed.

Mumification cases can be seen.

Live puppies can be born.

- Infected calves;
 - ataxia
- Weakness in reflexes
- Exophthalmos may be seen.

Neosporosis diagnostic methods

Diagnosis method	Morbid substance	
IFAT	Blood serum and milk	
ELISA	Blood serum and milk	
Histological Examination	Lesions in the Brain (Fetus)	
PCR	Fetal tissue and fluids	

Brucellosis Factor: B.abortus

- The causative agent is intracellular pathogen.
- It usually enters the body orally.
- House flies (Musca domestica) are effective in spreading infection.
- Abortion can be seen within 2 weeks-5 months after infection.

Brusellosis

- Source:
- Waste fetuses-placentas
- Uterine currents
- Milk-urine-semen-feces.

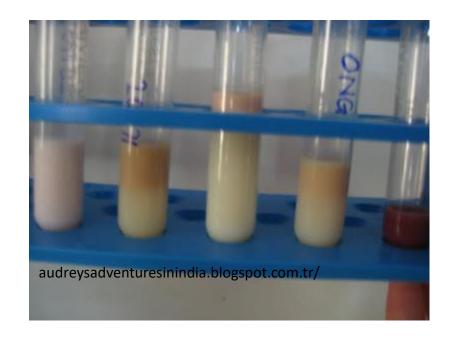


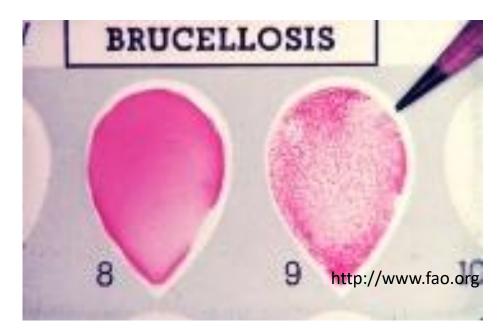
 The agent can survive at high humidity and low ambient temperatures.

Brusellosis

Diagnosis

- Blood serum and milk samples can be taken for serological testing purposes.
- Milk samples should be taken from each breast lobe.
- Abort material should be sent to lab in cold chain.





Brusellosis Pr

Protection

- Calves and pregnant heifers should be vaccinated.
- Use of infected semen should be avoided.
- Live vaccines should not be used in pregnant women.
- S19
- 45/20
- RB51
- Disinfection should be considered.
- Biosecurity is important.

Leptospirozis Hardjobovis-Hardjoprajitro

Clinical Forms

- Udder Form
- Sudden decrease in milk yield.
- Loose Breast
- Colostrum-like secretion
- Sometimes bloody milk

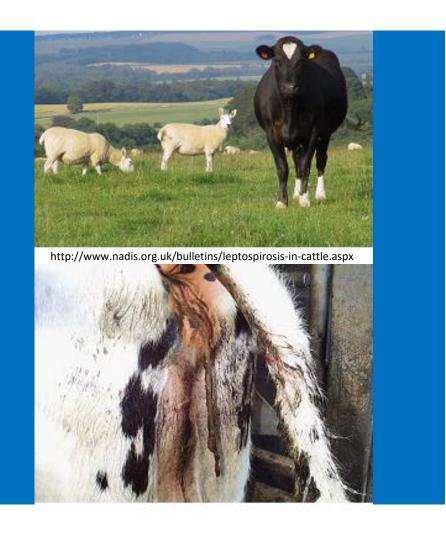


- Abortion Form
- It happens in the second half of pregnancy.
- Udder form can be seen together
- Normal looking fetus



Infection spread of leptospirosis abortions

- Contamination (cow-sourced)
- Pee
- Abortion Fetus
- Uterine discharge
- Transition from bull with semen
- Sheep-induced contamination
- grassland
- Drinking water



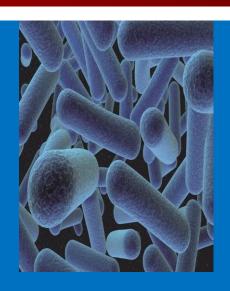
Leptospirosis Abortion Treatment-Prevention

- Antibiotic therapy
- Dihydrostreptomycin (25mg / kg)
- Amoxicillin (15mg / kg)

- Vaccination programs
- Type-specific vaccines available
- Vaccination from age 5 months
- 2 doses of vaccine at least 4 weeks apart
- Vaccines prevent abortion but bacterial scatter continues

Listeriosis Abortions Listeria monocytogenes

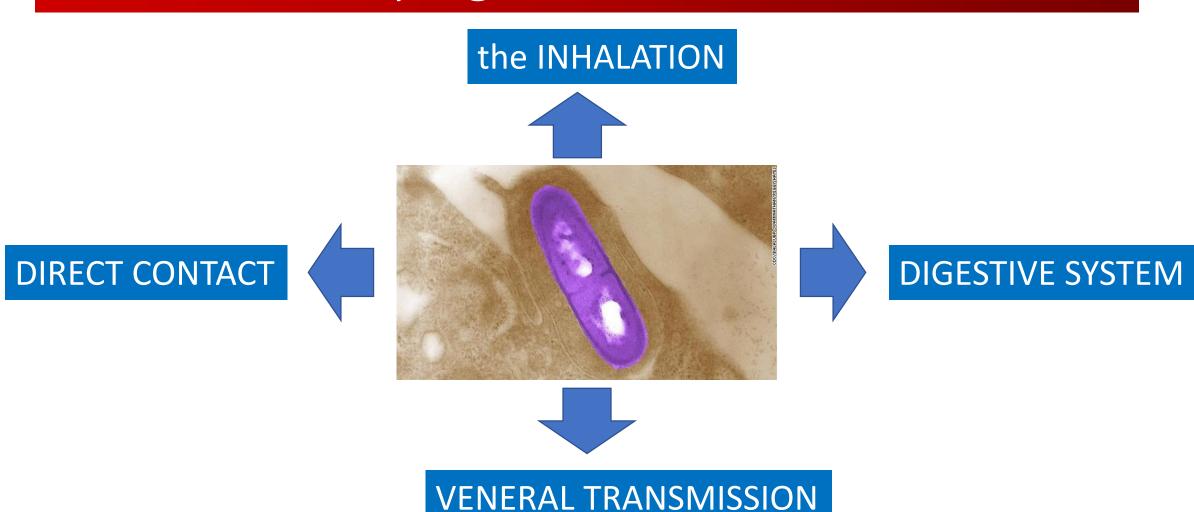
- Microorganism;
- 3- 45 ° C
- It can grow between pH 5.6 and 9.6.



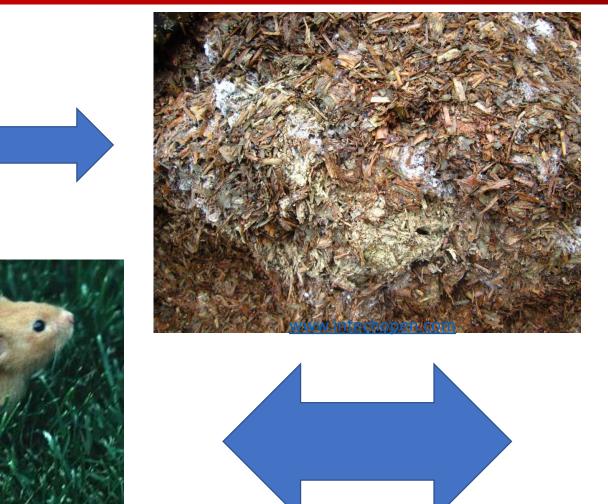
- It is originated from soil and digestive system.
- It usually causes sporadic abortion.

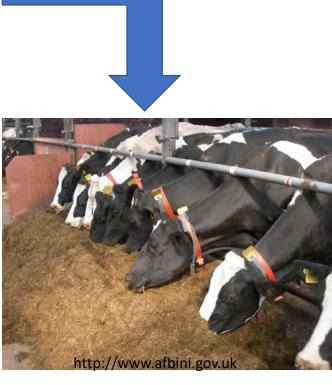
Listeriosis Abortion Listeria monocytogenes

Transmissions



Listeriosis Abortions Listeria monocytogenes





Diagnosis of Listeriosis Abortions

- Fetus;
- otolitic
- Non-specific disorders
- Fetal septicemia is seen.



http://www.nadis.org.uk

BVD-MD Abortions

- Factor: Pestivirus family
- Medicine:
- Type 1: Non Cytopathic Common cause of disease
- Type 2: Cytopathic

 Virulence High-Superinfection
- Reservoir:
- Wild animals like deer
- Persistent Infected Animals
- IBR-Parainfluenza-RSV.

BVD-MD Abortions Clinical Forms

- Digestive system form
- Diarrhea
- Gastrointestinal ulceration
- Respiratory tract infection
- thrombocytopenia

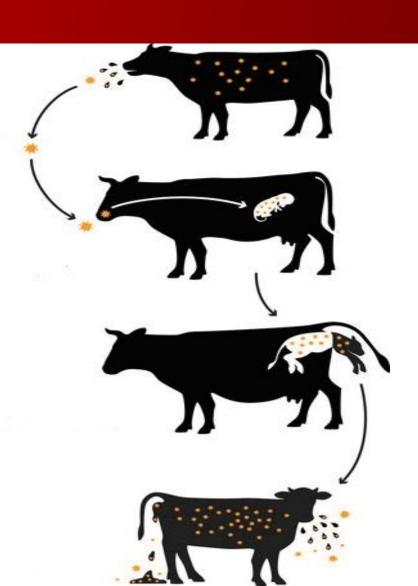
- Reproductive system form
- Early embryonic death
- the mummification
- Abortions
- Infertility



BVD-MD Abortion Pathogenesis

- Infection Source:
- Persistent Infected Animals
- Nature

Horizontal transmission



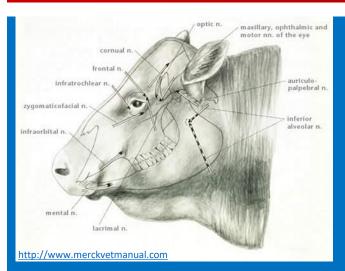
IBR Abortions, Bovine Herpes Virus 1

- Factor: Herpesvirus family
- BHV 1 has two subtypes.
- IBR
- They cause IPV.
- The incubation period varies between 10-20 days.
- Herpesviruses are in latent form and are reactivated as a result of immunosuppression.

BVD-MD Abortions Bovine Viral Diarrhea Virus

- Diagnostic Methods
- Virus detection in fetal fluids PCR (DNA isolation)
- Blood sample in EDTA tubes
- Nasopharyngeal swap ELISA (Antibody)
- Antibody level in tank milk
- If an infected animal is found in the herd, blood samples must be taken twice from the whole flock at 6-week intervals and sent to the laboratory.

IBR Abortions Bovine Herpes Virus 1







- Corticosteroid injections stimulate virus scattering.
- Latent infection can be found in 10% of clinically normal animals.

IBR Abortions Bovine Herpes Virus 1

- The disease can occur in 5 forms.
- Respiratory System Form
- Reproductive System Form
- Generalize / Alimenter Form
- Encephalitic Form
- Other