



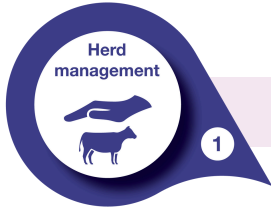
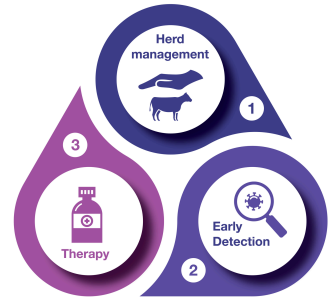
Bovine respiratory disease (BRD)
**A complex disease,
a complex challenge**



BRD

Bovine respiratory disease (BRD) is a complex disease which is favoured by many factors related to the animal, the circulating pathogens and the husbandry conditions.

An integrated approach is important to minimize the risk of respiratory diseases and maintain a healthy herd.



What are the risk factors of BRD?



Viral agents

- First wave



Bacterial agents

- Second wave



Bedding score (lying calf)

- Claws visible
- Legs partially visible
- Legs invisible



Air quality

- NH_3 & CO_2 - noxious gases
- Pathogen load / m_3



Enthalpy

- Temperature
- Humidity



Colostrum regimen

- First milk
- 2 hours after birth
- 3 liters minimum



Co-housing



Stressors

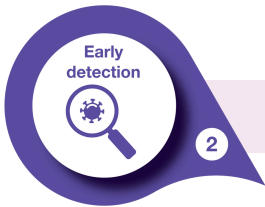
- Transportation



Hygiene

- Clean housing and material
- Always fresh water access





How is BRD diagnosed?

Observing the first signs of the disease is key to a successful treatment plan and preventing further infections.

CROWDING

Sick calves tend to cluster together.



BEHAVIOUR

Reduced appetite and depression.



SHARP BREATHING, COUGHING



DISCHARGE

Clear to pus-resembling mucus is pouring from the eyes and/or nose.



FEVER

Normal temperatures:
New-born calves:
38,5-40,5 °C
Calves:
38,5-39,5 °C



INFLAMED MUCOSA

Reddish discoloration is one of the first signs of inflammation.



Treatment of BRD

Antimicrobial therapy is frequently used because of the involvement of bacterial agents in BRD.

Success of antibiotic treatment protocols depend on:

- the timing of the treatment, pathogen identification and its susceptibility.
- sufficient and high-quality nutrition
- separation of sick animals from healthy housemates

BRD is a painful condition so the effective pain management is advised to support the recovery.

As much as necessary, as little as possible

With increasing antimicrobial resistance and alarming need to protect human and animal health it is very important to keep in mind the rule of responsible use of antibiotics.



Impact of BRD

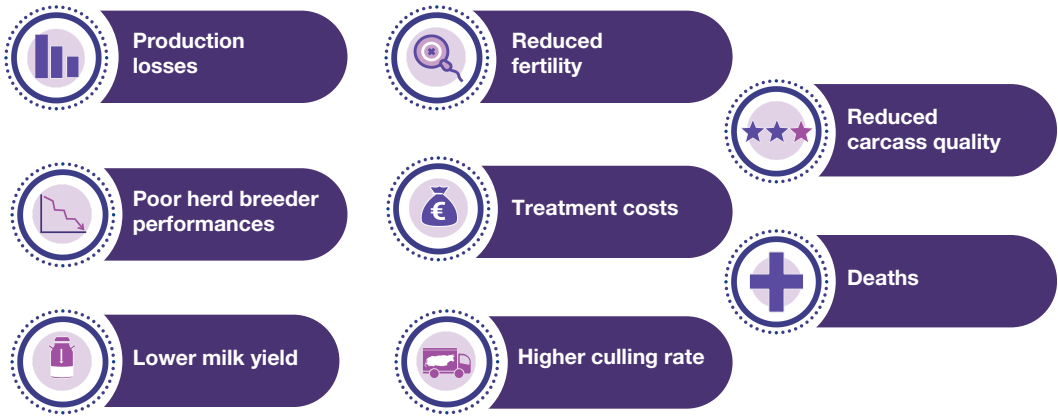
Do you know how BRD is impacting your herd and your business?

The impact is huge and you observe it most often with a delay, as far as you carefully analyse all the data on your farm.

Treatment costs are only the tip of the iceberg. To properly assess your losses you need to take a multi-faceted approach:

- Direct costs: these are related to production losses at farm level by deaths and reduced carcass quality, treatment costs, labor costs.

Indirect costs: BRD is impacting the herd breeding performances.



Want to learn more?

Scan this QR code for
the BRD checklist

Add local QR code to
BRD checklist on website
or to pdf file

Scan this QR code to go
to www.dechra.co.uk/brd

Add local QR code to
BRD article on website



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Connected by Care

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Care for the animal. Care for a healthy business. Care for responsible use of veterinary medicines.

