

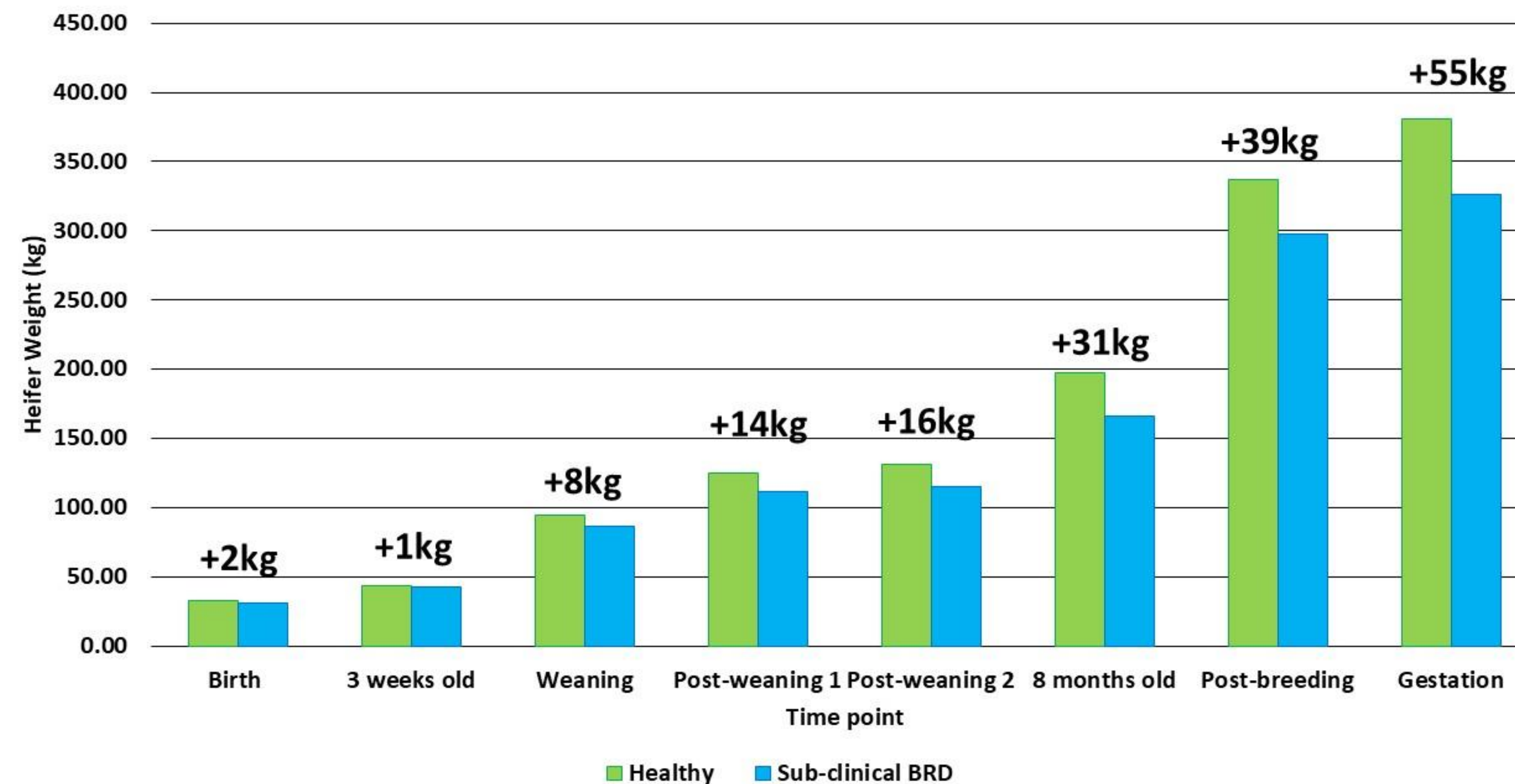
Sub-clinical BRD

Non-observable (through clinical signs) **manifestation of bovine respiratory disease (BRD aka Pneumonia)**

Clinical signs of BRD

- Coughing
 - Repeated coughing
- Nasal/Eye discharge
 - Clear discharge- early signs
 - Cloudy discharge/ purulent discharge – disease is longer established
- Head/ear tilt
- Rectal temperature $>39.5^{\circ}\text{C}$

Mean weights (kg) for heifers with sub-clinical BRD and healthy heifers from birth to early gestation



Detecting BRD

- Clinical assessment to note observable signs of disease
- Thoracic Ultrasonography (TUS) allow for lung imaging when no clinical signs are present

Take home messages

- Sub-clinical BRD often goes undetected because of a lack of clinical signs
- Sub-clinical BRD has long-term impact on heifer performance