

Bovine Reproductive Ultrasound Guide

Evaluation of the bovine reproductive tract is an essential aspect of both beef and dairy herd management. Transrectal ultrasonography allows the visualisation and evaluation of the ovaries, uterus, and surrounding structures. This information can help guide clinical decision making and improve herd efficiency and productivity.

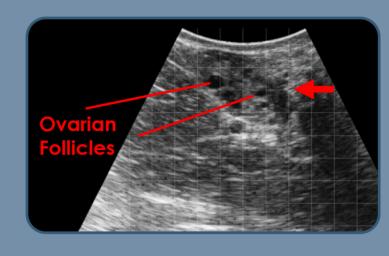


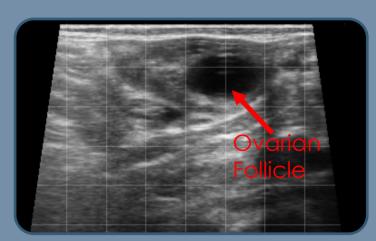
Foetal Development



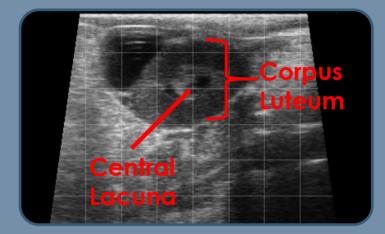
Bovine Ovary

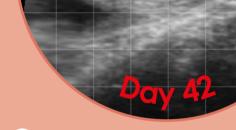
The bovine oestrus cycle lasts 18 to 24 days. During this period, two to three follicular waves develop leading to the emergence of a dominant follicle. Whilst the corpus luteum maintains production of progesterone, the dominant follicles of the initial wave(s) will regress by atresia. Once luteolysis has occurred and progesterone declines, the dominant follicle of the last wave of the cycle may continue to develop and undergo ovulation.











Crown rump length

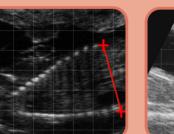


mm

days

Trunk diameter

mm



days

Head length

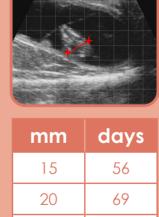


mm

days

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Head



	uuys	
15	56	
20	69	
25	79	
30	87	
35	94	
40	100	
45	105	
50	110	
60	118	
70	125	
80	131	

Ultrasound Landmarks of Foetal Development¹

- Heart beat visible
- Placentomes visible from day 35
- **Foetal movement** visible from day 45-50
- Eye Diameter
 - 0.3cm at day 50
 - 1.0cm at day 90
- Foetal sex determination from day 55-60

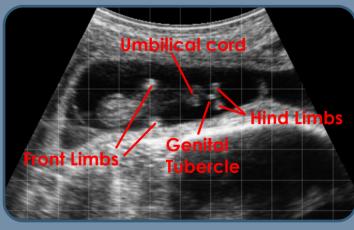
Foetal Sexing

Transrectal ultrasonography is useful for determining foetal sex by evaluating the location of the genital tubercle (precursor to the penis and clitoris). Ultrasound can be used to accurately determine foetal sex from day 55–60 post ovulation. The genital tubercle appears as parallel white lines and is located between the tail and hind limbs in the female. In the male foetus, it is located just caudal to the point where the umbilicus enters the body.

Female











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