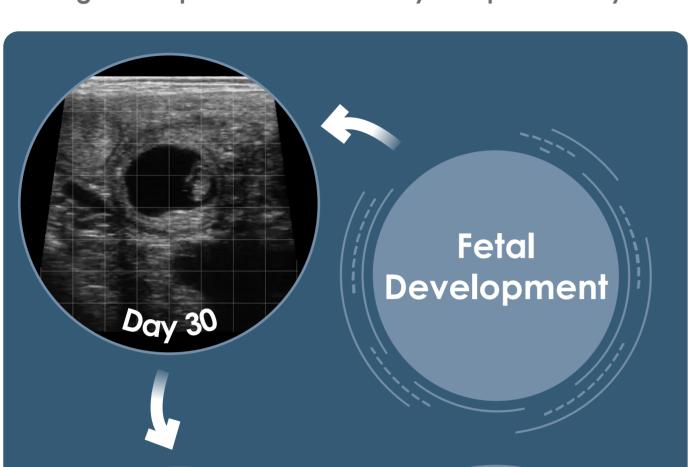


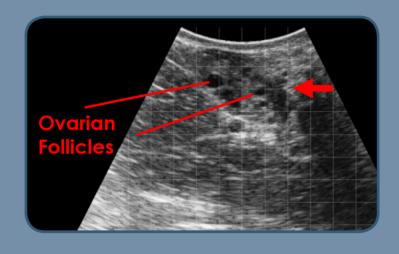
## **Bovine Reproductive** Ultrasound Guide

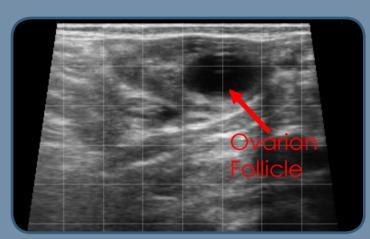
Evaluation of the bovine reproductive tract is an essential aspect of both beef and dairy herd management. Transrectal ultrasonography allows the visualization and evaluation of the ovaries, uterus, and surrounding structures. This information can help guide clinical decision making and improve herd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



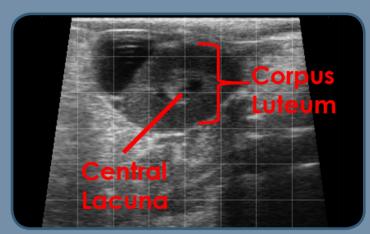
## **Bovine Ovary**

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.

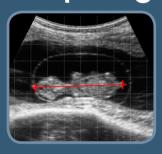










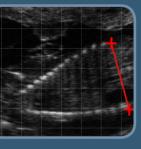


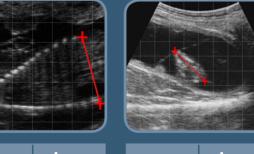
mm

15

days

Head Trunk diameter length

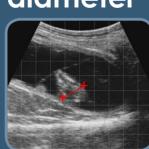




20	39		1		
25	42				
30	45	mm	days	mm	days
35	48	15	54	25	62
40	50	20	65	30	70
45	52	25	73	35	76
50	54	30	80	40	81
60	57	35	86	45	86
70	60	40	91	50	90
80	62	45	95	55	90
90	64	50	99	60	98
100	66	55	103	70	104
110	67				
120	69	60	106	80	109
130	70	70	112	90	114
140	71	80	117	100	118
150	72	90	121	110	122
160	73	100	125	120	126
170	74	110	128	130	129
180	75	120	132	140	132

Head diameter

Day 54



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

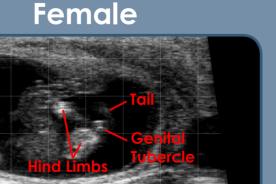
## **Ultrasound** Landmarks of Fetal Development<sup>1</sup>

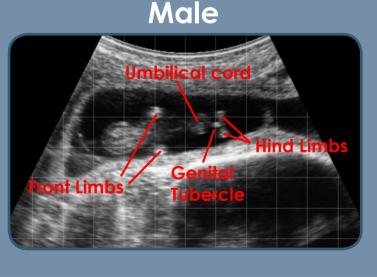
- Heart beat visible from day 25
- Placentomes visible from day 35
- Fetal movement visible from day 45-50
- Eye Diameter
  - 0.3cm at day 50
  - 1.0cm at day 90
- Fetal sex determination from day 55-60

<sup>1</sup>DeCôteaux L., Gnemmi G., Colloton J. (2010) Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography 1st Edn., Wiley-Blackwell, Iowa, pp 81 - 124

## **Fetal Sexing**

Transrectal ultrasonography is useful for determining fetal sex by evaluating the location of the genital tubercle (precursor to the penis and clitoris). Ultrasound can be used to accurately determine fetal 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 fetus, it is located just caudal to the point where the umbilicus enters the body.





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