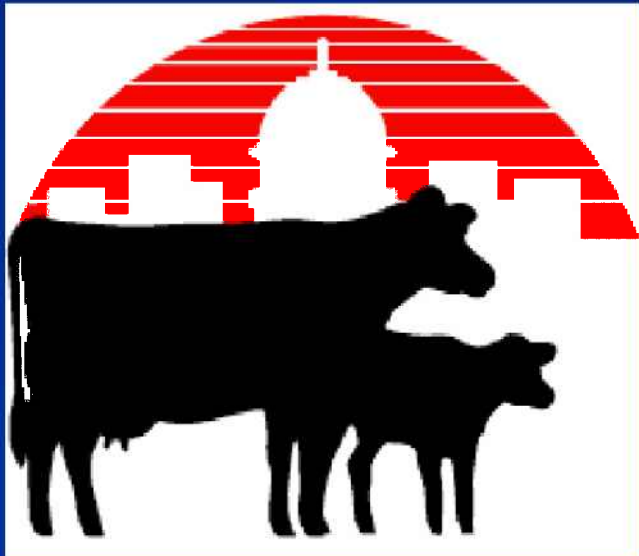


# Management and treatment of anestrus and anovulatory conditions in dairy cattle.

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# Outline

1. Incidence of anovulation in dairy cows.
2. Problems with anovulation.
3. Causes of anovulation.
4. Prevention of anovulation.
5. Treatments for anovulation.

# Incidence of anovulation

	% (n)	
Bartolome et al., 2000	44% (159/362)	Palpation
Cartmill et al., 2001	18% (128/705)	P4
Moreira et al., 2001	23% (117/499)	P4
Pursley et al., 2001	29% (182/634)	P4
Gumen et al., 2003	20% (64/316)	US+P4
Lopez et al., 2004	29% (76/267)	US+P4
<b>Overall</b>	<b>26% (726/2783)</b>	-

# Incidence of anovulation

Study	Primiparous	Multiparous	Comments
Moreira et al., 2001	37.3%	15.7%	n = 499 @ 63 DIM by P <sub>4</sub>
Lopez et al., 2005	29% (38/131)	28% (38/136)	@71 DIM by u.s. & P <sub>4</sub> (only 13% @ 100 DIM)
Gumen et al., 2003	28% (34/122)	15% (29/194)	@ 57 DIM by u.s. & P <sub>4</sub>
Chebel et al., 2006	54.1% (210/388)	31.5% (183/580)	@ 49 DIM by P <sub>4</sub>

# Relationship between body condition score (BCS), anovulation, and follicle size in lactating dairy cows.

BCS	Primiparous	Multiparous	Maximal Follicle Size
$\leq 2.25$	75% (3/4)	47% (9/19)	15.8 $\pm$ 1.3
2.5	57% (8/14)	11% (4/36)	16.7 $\pm$ 1.6
2.75	26% (9/35)	17% (11/64)	19.8 $\pm$ 1.1
3.0	26% (14/54)	10% (6/59)	23.5 $\pm$ 1.3
$\geq 3.25$	0 (0/16)	0 (0/15)	---

## Summary

- Anovulation occurs in a high percentage of lactating dairy cows ( $\sim 25\%$  @ 60 DIM).
- Anovulation is usually greater in primiparous cows at all BCS.
- Anovular cows with good BCS ( $\geq 2.75$ ) have larger anovular follicles ( $\sim 20$  mm).

