

**Table S1.** Characteristics of the cows included in this study.

Parameters	No.
Cows examined	19
Analyzed cows	19
Postpartum status	
Pregnant	13 (68.4%)
First AI pregnancy rate	21.0%
Culled	2
Non-pregnant	4
Days open period	
Mean $\pm$ SD	121.5 $\pm$ 53.0
Median (range)	105 (68, 246)
No. of cows with cysts	12 (63.1%)
No. of cows with mastitis	11 (57.8%)
No. of cows with ketosis	8 (42.1%)
No. of cows with endometritis, metritis, or pyometra	4 (21.0%)

SD, standard deviation; AI, artificial insemination.

**Table S2.** Association between mastitis, PAG slope, postpartum days open period, and inflammation markers.

	Mastitis		<i>p</i> -Value
	Without	With	Without vs. with
No. of cows	8	11	
Days open period (mean $\pm$ SD)	119.5 $\pm$ 36.9	133.1 $\pm$ 67.8	0.640
PAG slope	-0.066 $\pm$ 0.018	-0.047 $\pm$ 0.028	0.095
Estimate day 1 SAA	2.44 $\pm$ 1.01	2.59 $\pm$ 1.08	0.762
SAA slope	-0.039 $\pm$ 0.005	-0.041 $\pm$ 0.006	0.706
No. of cows with MAA more than 12 $\mu$ g/mL (%)	3 (37.5)	9 (81.8)	0.074

SD, standard deviation; PAG, pregnancy-associated glycoprotein; SAA, serum amyloid A; MAA, milk amyloid A.

**Table S3.** Association between ketosis, PAG slope, postpartum days open period, and inflammation markers.

	Ketosis		<i>p</i> -Value
	Without	With	With vs. without
No. of cows	11	8	
Days open period (mean $\pm$ SD)	116.0 $\pm$ 44.4	134.0 $\pm$ 75.3	0.679
PAG slope	-0.059 $\pm$ 0.029	-0.056 $\pm$ 0.010	0.810
Estimate day 1 SAA	2.62 $\pm$ 1.16	2.29 $\pm$ 0.95	0.514
SAA slope	-0.040 $\pm$ 0.006	-0.038 $\pm$ 0.008	0.653
No. of cows with MAA more than 12 $\mu$ g/mL (%)	7 (63.6)	5 (62.5)	0.999

SD, standard deviation; PAG, pregnancy-associated glycoprotein; SAA, serum amyloid A; MAA, milk amyloid A.