Table A1. Total number, predicted means (± SEM), mean ratio (MR) and odds ratio (OR) estimates with 95% confidence intervals (CI) for ovarian structures, estrous expression, and embryo development by the sensitivity analyses group (top 25% and bottom 25%). Estimates were obtained from multivariable linear, logistic and Poisson regression models. A subset of heifers were categorized into top 25% or bottom 25% according to their circulating level of progesterone at -2d of the study protocol.

	Progesterone concentration on -2d		
	Top 25%	Bottom 25%	*P*-value
Heifers, n	17	18	-
Ovarian structures and ovulatory response			
Total number of follicles at AI, n	16.2 ± 1.5	15.6 ± 2.0	0.64
Diameter of the follicles at AI, mm	11.9 ± 0.3	11.6 ± 0.3	0.45
Ovulation, %	76.4 ± 0.1	66.6 ± 0.1	0.60
Total number of CLs 7d post-AI, MR (95% CI)[1]	0.19 (0.09 – 0.41)		0.01
Estrous expression			
Heifers, n	15	17	-
Time to estrous event, h	23.0 ± 3.3	21.1 ± 3.0	0.51
Maximum intensity, %	528.5 ± 37.6	540.3 ± 32.2	0.81
Duration of estrus, h	14.9 ± 1.8	12.1 ± 1.6	0.10
Embryo development			
Embryos, n	26	20	-
Embryo stage, OR (95% CI) [1]	0.92 (0.28 – 2.9)		0.76
Embryo quality, OR (95% CI) [1]	1.00 (0.28 – 3.5)		0.98

Embryo count, MR (95% CI) [1]	0.26 (0.07 – 0.93)	0.03

[1] The reference category is Top 25%