



Exploring the impact of exogenous Kisspeptin-10 on ovarian follicular development and estrus behaviour in Lakhimi cows of Assam

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Supplementary Table 1. Serum hormonal profile (Mean±SE) of progesterone, estradiol and LH during estrous cycles in untreated and kisspeptin treated cows

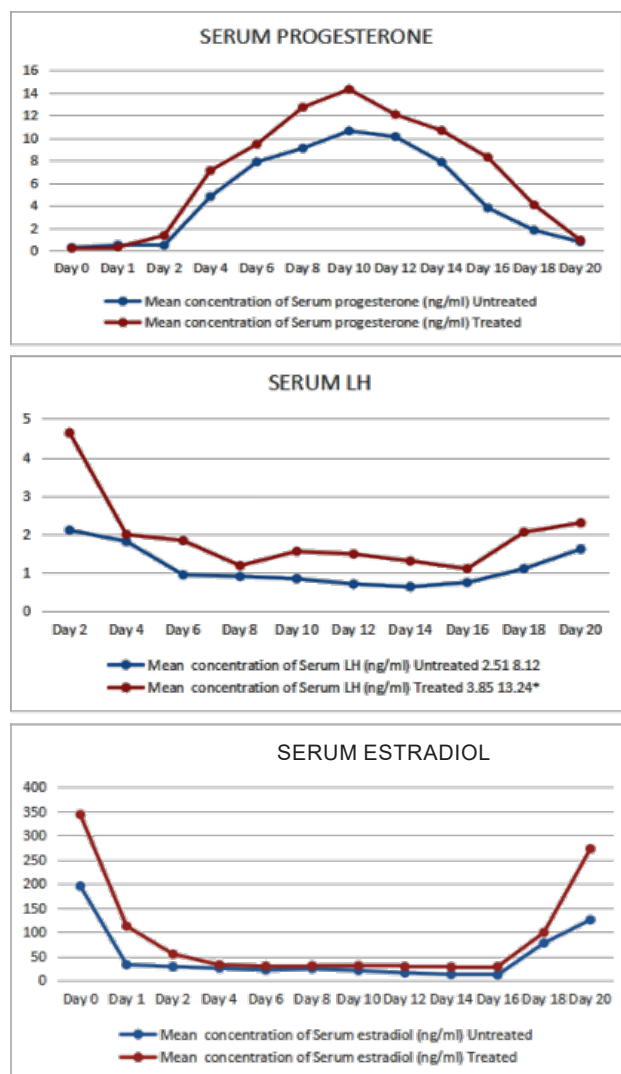
Days of estrous cycles	Mean concentration of Serum progesterone (ng/ml)		Mean concentration of Serum estradiol (ng/ml)		Mean concentration of Serum LH (ng/ml)	
	Untreated	Treated	Untreated	Treated	Untreated	Treated
Day 0	0.31±0.09	0.25±0.05	196±11.35	344±39.85*	2.51±0.53	3.85±0.42
Day 1	0.53±0.08	0.35±0.05	33±3.03	113±27.82*	8.12±1.03	13.24±1.48*
Day 2	0.50±0.08	1.37±0.23	29±2.79	55±11.25	2.11±0.41	4.64±0.64*
Day 4	4.83±0.54	5.46±1.25	26±0.44	33±1.66	1.82±0.41	2.0±0.45
Day 6	7.89±1.43	8.36±1.54	22±1.6	30±1.9	0.95±0.20	1.84±0.45
Day 8	9.12±1.43	10.85±1.72*	25±1.4	31±2.5	0.91±0.20	1.19±0.29
Day 10	10.64±1.93	12.34±1.88*	21±1.2	31±1.5	0.85±0.09	1.56±0.29
Day 12	10.14±0.93	10.85±1.66	16±1.58	29±1.92	0.71±0.09	1.49±0.33
Day 14	7.87±1.07	9.45±1.46	13±1.24	28±1.77	0.64±0.09	1.31±0.43
Day 16	3.82±0.67	5.30±1.30*	12±1.44	29±1.73	0.75±0.12	1.11±0.33
Day 18	1.84±0.40	3.09±0.93*	78±9.18	100±17.05	1.11±0.12	2.06±0.33
Day 20	0.81±0.14	0.97±0.22	126±13.81	273±40.55*	1.62±0.14	2.30±0.42

*, Level of significance ($P > 0.05$).

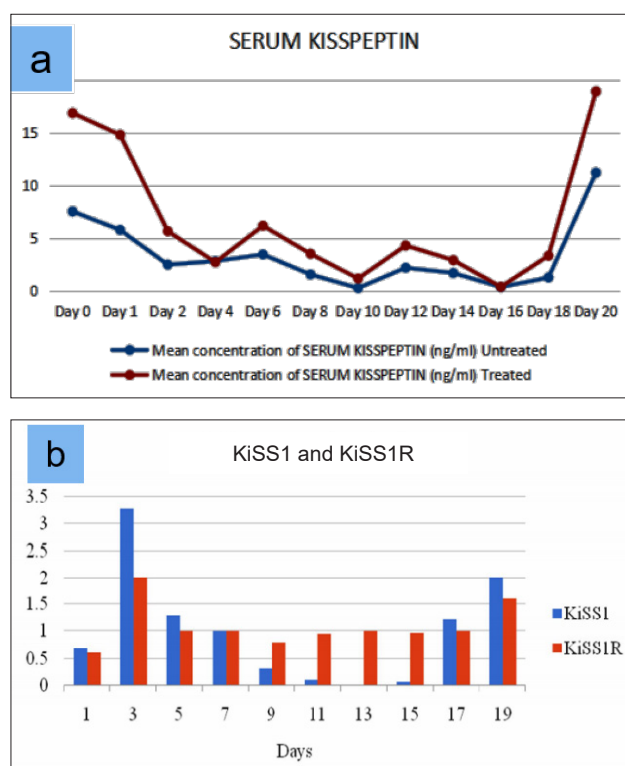
Supplementary Table 2. Serum kisspeptin (ng/ml) profile (Mean±SE) in Lakhimi cow during estrous cycles of both untreated and kisspeptin treated animal

Days of estrous cycles	Mean concentration of Serum kisspeptin (ng/ml)	
	Untreated	Treated
Day 0	7.59±1.29	16.92±1.02*
Day 1	5.83±0.84	14.85±1.02**
Day 2	2.54±0.44	5.71±1.02**
Day 4	2.88±0.44	2.78±0.44
Day 6	3.51±0.58	6.23±0.58*
Day 8	1.61±0.58	3.57±0.58
Day 10	0.32±0.09	1.23±0.49
Day 12	2.25±0.49	4.36±0.71
Day 14	1.75±0.49	2.97±0.49
Day 16	0.41±0.11	0.44±0.11
Day 18	1.32±0.44	3.39±0.67
Day 20	11.27±1.29	18.97±1.52*

*, Level of significance ($P > 0.05$).



Supplementary Fig.1. Comparative serum progesterone, LH and estradiol profile (ng/ml) during estrous cycles in untreated and kisspeptin treated cows.



Supplementary Fig. 2. Serum Kisspeptin (a) and its expression pattern (b) in control and kisspeptin treated Lakhimi cows.