Table S1. Calves enrolled into either the bovine coronavirus vaccine group (VAC) or non-vaccinated group (CON) by gender and cycle of birth.

| | Calves that received an IN prime | | | |
| | VAC | | CON | |
	Steer	Heifer	Steer	Heifer
Cycle 1	64	68	65	54
Cycle 2	96	88	106	87
Cycle 3+	63	69	69	58

Table S2. Comparison of treatment frequency by pen and cycle.

Pen	Cycle (N treated [%])			Total
	1	2	3	
1	0	44 [5]	142 [15]	186 [13]
2	88 [7]	0	0	88 [7]
3	0	173 [33]	0	173 [33]
4	19 [21]	156 [23]	0	175 [23]
5	142 [20]	1 (0)	0	143 [20]
6	0	0	122 [8]	122 [8]

Table S3. Mean and median age (days) at treatment for bovine respiratory disease for bovine coronavirus vaccinated (VAC) and non-vaccinated (CON) calves

	Pre-boost (all calves) n=167		Pre-boost (boosted only) n=139		Post-boost n=37	
	Mean (SD)	Median	Mean (SD)	Median	Mean (SD)	Median
VAC	40 (12)	38	39 (11)	38	77 (16)	74
CON	39 (12)	38	39 (12)	38	75 (16)	70
z-statistic		0.495		-0.070		0.496
P-value		0.62		0.94		0.62
r (effect size)		0.04		-0.006		0.08