

## Influence of *Mycoplasma bovis* infection on milk production and quality of Holstein dairy cows

Fabrício Dias Torres, Karina Medici Madureira, Karen Nascimento, Cristiane Azevedo, Tiane Martin de Moura, Marcia Regina Skorei and Viviani Gomes

**Supplementary Table 1 - Effect of *Mycoplasma bovis* on production parameters throughout lactation of Holstein cows in 3 dairy facilities in Carambeí, Paraná state, Brazil, 2018-2019.**

Days in milk/parameters	Experimental Groups	D0-50	D51-100	D101-150	D151-200	D201-250	D251-300	D>300	p-value
Milk/day (L)	M. bovis <sup>+</sup>	36.93±13.41ab	39.95±16.25a	35.02±9.85ab	36.31±10.23ab	32.92±8.82ab	27.8±8.35b	30.72±7.98ab	0.014
	M. bovis <sup>-</sup>	39.98±13.56a	46.4±10.95ab	46.85±9.11b	45.06±8.16ab	44.24±10.16ab	40.04±10.06ab	29.4±5.83c	0.001
p-value		<b>0.360</b>	<b>0.137</b>	<b>0.002</b>	<b>0.041</b>	<b>0.012</b>	<b>0.010</b>	<b>0.376</b>	
Fat (%)	Positive	3.85±1.12	3.41±0.8	3.97±0.83	3.92±0.7	4.15±0.73	3.89±0.77	4.26±0.74	0.113
	Negative	4.02±0.86ab	3.53±0.77a	3.48±1.29a	3.82±0.87a	3.66±1.02a	3.92±1.13ab	4.67±1.33b	0.001
p-value		<b>0.894</b>	<b>0.935</b>	<b>0.148</b>	<b>0.550</b>	<b>0.114</b>	<b>0.879</b>	<b>0.590</b>	
Protein (%)	Positive	3.18±0.49ab	3.08±0.24a	3.23±0.36ab	3.39±0.38ab	3.48±0.26ab	3.64±0.35b	3.61±0.5ab	0.002
	Negative	3.04±0.33ab	2.86±0.18a	3.09±0.29abc	3.24±0.32bcd	3.4±0.34cde	3.46±0.38de	3.67±0.35e	0.001
p-value		<b>0.180</b>	<b>0.039</b>	<b>0.321</b>	<b>0.174</b>	<b>0.396</b>	<b>0.219</b>	<b>0.882</b>	
Lactose (%)	Positive	4.57±0.2	4.6±0.23	4.65±0.3	4.66±0.23	4.58±0.23	4.61±0.21	4.49±0.44	0.403
	Negative	4.61±0.3	4.73±0.19	4.74±0.18	4.66±0.2	4.67±0.17	4.55±0.18	4.57±0.19	0.389
p-value		<b>0.727</b>	<b>0.301</b>	<b>0.458</b>	<b>0.684</b>	<b>0.454</b>	<b>0.698</b>	<b>0.387</b>	
Total Solids (%)	Positive	12.48±1.43ab	12.02±1.05a	12.75±1.11ab	12.9±1.07b	13.17±0.95bc	13.09±1.13bd	13.29±1.35be	0.010
	Negative	12.58±1.17ab	12.01±0.93a	12.24±1.42a	12.64±1.12ab	12.65±1.28ab	12.88±1.49ab	13.91±1.67b	0.001
p-value		<b>0.706</b>	<b>0.660</b>	<b>0.206</b>	<b>0.303</b>	<b>0.176</b>	<b>0.692</b>	<b>0.478</b>	
SCC (Cell/mL)	Positive	1046.71±2632.87	508.67±1648.78	758.44±1786.93	674.5±1639.12	417.5±802.83	245.14±325.63	151.17±134.16	0.304
	Negative	439.29±1463.4ab	71.17±112.16a	99.67±116.19ab	95.47±115.24ab	206.94±527.9ab	227.79±436.49ab	254.18±346.3b	0.001
p-value		<b>0.120</b>	<b>0.085</b>	<b>0.044</b>	<b>0.286</b>	<b>0.311</b>	<b>0.954</b>	<b>0.731</b>	
UREA (mg/dL)	Positive	15.83±5.44	10.91±2	13.07±2.12	11.54±2.12	12.5±3.22	14.58±3.23	13.38±2.84	0.11
	Negative	12.34±3.82	15.18±4.63	12.4±5.89	16.2±2.93	13.93±2.6	13.96±2.48	15.5±1.48	0.144
p-value		<b>0.048</b>	<b>0.015</b>	<b>0.655</b>	<b>0.023</b>	<b>0.394</b>	<b>0.761</b>	<b>0.282</b>	
PMP 305 days (L)	Positive	8384.61±2835.38a	8862.11±3044.72b	9065.68±2920.47c	9874.85±2549.82d	10290.38±2603.29e	9978.32±3155.9ef	11733.98±2792.42f	0.001
	Negative	9051.16±2235.56a	9827.69±2150.73b	10690.74±2218.7c	11788.72±1786.78d	12342.73±2250.23e	12765.81±2560.61f	13258.54±2690.39g	
p-value		<b>0.441</b>	<b>0.335</b>	<b>0.159</b>	<b>0.094</b>	<b>0.043</b>	<b>0.029</b>	<b>0.013</b>	

SCC = Somatic Cell Count; PMP = projected milk production on 305 days of lactation. Pairs of M. bovis<sup>+</sup> and M. bovis<sup>-</sup> cows were evaluated in seven different stages of lactation: D1-50, D51-100, D101-150, D151-200, D201-250, D251-300, and D≥301. The Student t-test was used to obtain the differences between groups in the stages of lactation. Different letters ("a" to "g") indicate statistically significant differences. The differences between groups were considered significant when the P-value was < 0.05.