



Evaluation of ameliorative potential of antioxidants and/or immunomodulators in contagious caprine pleuropneumonia affected Himalayan Pashmina goats

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Supplementary Table 1. Effect of different therapeutic regimes on Oxidative Stress Index (Mean±SE)

Hours post treatment	Alpha tocopherol and tylosin treated group	N-acetyl cysteine and tylosin treated group	Tylosin only treated group	Healthy control group
0	3±0.33 ^a	4.1±0.66 ^a	3.4±0.61 ^a	1±0.00 ^{aA}
48	2.5±0.31 ^a (1.00)*	3±0.62 ^a (1.00)*	2.6±0.52 ^a (1.00)*	1.3±0.42 ^{aA} (1)*
96	2.6±0.59 ^{aAB} (1.00)*(1.00)**	2.1±0.85 ^{aAB} (0.35)*(1.00)**	3.9±0.9 ^{aA} (1.00)*(1.00)**	0.9±0.12 ^{aB} (1)*(1)**
144	2.2±0.39 ^a (1.00)*(1.00)** (1.00)***	2.4±0.49 ^a (0.64)*(1.00)** (1.00)***	2.7±0.50 ^a (1.00)*(1.00)** (1.00)***	1±0.38 ^{aA} (1)*(0.58)** (1)***
% <(144)	26.6	41.4	20.5	0

^aValues with similar superscript did not differ significantly (P>0.05) in a column. ^{AB}Values with different superscript differ significantly (P≤0.05) in a row.

Supplementary Table 2. Effect of different therapeutic regimes on differential leukocyte count (%) (Mean±SE)

Cell	Hours post treatment	Alpha tocopherol and tylosin treated group	N-acetyl cysteine and tylosin treated group	Tylosin only treated group	Healthy control group
Neutrophils	0	67.67±4.31 ^a	69.00±2.24 ^a	69.00±3.61 ^a	32.17±0.83 ^{aA}
	48	59.33±3.68 ^a (0.00)*	60.00±2.83 ^a (0.06)*	60.67±4.22 ^b (0.00)*	32.33±0.71 ^{aA} (1)*
	96	43.50±5.75 ^{abA} (0.01)*(0.07)**	45.50±3.90 ^{bA} (0.02)*(0.04)**	50.17±3.12 ^{cB} (0.00)*(0.02)**	33.50±0.43 ^{aA} (1)*(1)**
	144	31.17±0.70 ^{bcA} (0.00)*(0.00)** (0.64)***	29.67±0.88 ^{cA} (0.00)*(0.00)** (0.02)***	32.17±1.22 ^{dA} (0.00)*(0.01)** (0.03)***	32.83±0.48 ^{aA} (1)*(1)** (0.61)***
Lymphocytes	0	24.83±3.17 ^a	21.83±2.91 ^a	23.17±2.71 ^a	62.83±0.95 ^{aA}
	48	32.33±2.97 ^b (0.03)*	36.00±2.84 ^b (0.00)*	34.17±3.34 ^b (0.00)*	62.67±0.95 ^{abA} (1.00)*
	96	52.50±4.77 ^c (0.01)*(0.02)**	50.50±3.48 ^{bc} (0.01)*(0.08)**	44.17±2.02 ^b (0.00)*(0.06)**	61.17±0.91 ^{acA} (0.06)*(0.04)**
	144	65.00±1.65 ^{cdA} (0.00)*(0.00)** (0.62)***	66.50±1.18 ^{cdA} (0.00)*(0.00)** (0.10)***	63.00±2.46 ^{cA} (0.00)*(0.00)** (0.03)***	61.33±1.28 ^{abcA} (1.00)*(1.00)** (1.00)***
Monocytes	0	2.83±1.17 ^{aA}	0.67±0.33 ^{aAB}	0.5±0.34 ^{aB}	0.67±0.33 ^{aAB}
	48	2.67±1.02 ^{aA} (1.00)*	0.50±0.22 ^{aA} (1.00)*	0.83±0.31 ^{aA} (1.00)*	0.67±0.33 ^{aA} (1.00)*
	96	0.50±0.22 ^{aA} (0.69)*(0.60)**	0.33±0.21 ^{aA} (1.00)*(1.00)**	0.7±0.3 ^{aA} (1.00)*(1.00)**	1.00±0.37 ^{aA} (1.00)*(1.00)**
	144	0.67±0.21 ^{aA} (0.94)*(0.86)** (1.00)***	0.83±0.31 ^{aA} (1.00)*(1.00)** (1.00)***	2.1±0.8 ^{bA} (0.01)*(0.01)** (0.02)***	0.83±0.40 ^{aA} (1.00)*(1.00)** (1.00)***

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Supplementary Table 2. (Concluded)

Cell	Hours post treatment	Alpha tocopherol and tylosin treated group	N acetyl cysteine and tylosin treated group	Tylosin only treated group	Healthy control group
Eosinophils	0	3.67±2.01 ^{aA}	7.17±1.14 ^{aB}	5.50±2.33 ^{aA}	2.50±0.34 ^{aA}
	48	4.50±1.38 ^{aA} (1.00)*	2.50±1.09 ^{abA} (0.07)*	3.83±1.51 ^{aA} (0.98)*	2.67±0.33 ^{aA} (1.00)*
	96	2.50±0.76 ^{aA} (1.00)*(1.00)**	2.50±0.62 ^{abA} (0.05)*(1.00)**	2.67±0.76 ^{aA} (0.96)*(1.00)**	3.00±0.63 ^{aA} (1.00)*(1.00)**
	144	2.17±0.70 ^{aA} (1.00)*(0.62)** (1.00)***	2.17±0.48 ^{bA} (0.01)*(1.00)** (1.00)***	2.50±0.85 ^{aA} (0.77)*(1.00)** (1.00)***	3.67±0.88 ^{aA} (1.00)*(1.00)** (1.00)***
	0	1.00±0.37 ^{aA}	1.50±0.56 ^{aA}	1.83±0.79 ^{aA}	1.83±0.31 ^{aA}
	48	1.17±0.40 ^{aA} (1.00)*	1.00±0.37 ^{aA} (1.00)*	2.17±0.70 ^{aA} (1.00)*	1.67±0.49 ^{aA} (1.00)*
	96	1.00±0.37 ^{aA} (1.00)*(1.00)**	1.17±0.17 ^{aA} (1.00)*(1.00)**	2.33±0.61 ^{aA} (1.00)*(1.00)**	1.33±0.21 ^{aA} (0.45)*(1.00)**
	144	1.00±0.37 ^{aA} (1.00)*(1.00)** (1.00)***	0.83±0.31 ^{aA} (1.00)*(1.00)** (1.00)***	1.83±0.79 ^{aA} (1.00)*(1.00)** (1.00)***	1.33±0.21 ^{aA} (0.45)*(1.00)** (1.00)***
Basophils	0	1.00±0.37 ^{aA}	1.50±0.56 ^{aA}	1.83±0.79 ^{aA}	1.83±0.31 ^{aA}
	48	1.17±0.40 ^{aA} (1.00)*	1.00±0.37 ^{aA} (1.00)*	2.17±0.70 ^{aA} (1.00)*	1.67±0.49 ^{aA} (1.00)*
	96	1.00±0.37 ^{aA} (1.00)*(1.00)**	1.17±0.17 ^{aA} (1.00)*(1.00)**	2.33±0.61 ^{aA} (1.00)*(1.00)**	1.33±0.21 ^{aA} (0.45)*(1.00)**
	144	1.00±0.37 ^{aA} (1.00)*(1.00)** (1.00)***	0.83±0.31 ^{aA} (1.00)*(1.00)** (1.00)***	1.83±0.79 ^{aA} (1.00)*(1.00)** (1.00)***	1.33±0.21 ^{aA} (0.45)*(1.00)** (1.00)***

^aValues with similar superscript did not differ significantly ($P>0.05$) in a column. ^{AB}Values with different superscript differ significantly ($P\leq 0.05$) in a row. *, **, ***P values of the treatment at each time point.