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Original Articles

Concentration of Copper, Iron, Zinc, Cadmium, Lead, and Nickel in Bull and Ram Semen and Relation to the Occurrence of Pathological Spermatozoa

P. Massányi , J. Trandzik, P. Nad, B. Koreneková, M. Skalická, R. Toman, ...show all Pages 3005-3014 | Received 13 Feb 2004, Published online: 24 Jun 2011

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species. Correlation analysis in buils showed high positive relation between iron and

zinc (r=0.72), nickel and separated tail (r=0.76), separated tail and tail torso (r=0.71), tail torso and total number of pathological spermatozoa (r=0.72), and between tail ball and total number of pathological spermatozoa (r=0.78). In rams high positive correlation between cadmium and lead (r=0.98), nickel and separated tail (r=0.77), separated tail and total number of pathological spermatozoa (r=0.69), knob twisted tail and retention of cytoplasmic drop (r=0.78), and between knob twisted tail and other pathological spermatozoa (r=0.71) was found. High negative correlation in ram semen was observed between copper and nickel (r=0.71), copper and separated tail (r=0.70), and between iron and tail torso (r=0.67). The results suggest that the studied metals have a direct effect on spermatozoa quality.

Keywords:

Trace elements	Semen	Pathological spermatozoa	Bull	Ram



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