The effect of radio electric asymmetric conveyer treatment on sperm parameters of subfertile stallions: A pilot study

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Summary

The Radio Electric Asymmetric Conveyer (REAC) has been mostly applied to treat symptoms related to psychological stress. In the study, we demonstrated the effect of REAC-Veterinary Neuro Psycho Physical Optimization (VNPPO) treatment protocol on sperm parameters of subfertile (n = 11) and fertile (n = 4) stallions. Subfertile stallions showed a reduced sperm concentration, progressive motility and normal morphology compared to fertile stallions. An increase in progressive sperm motility and quality of sperm morphology was found in subfertile stallions after the REAC-VNPPO treatment. The positive effect of the REAC-VNPPO treatment was visible in a reduced number of reacted or absent acrosomes, nuclei with marginated chromatin and presence of cytoplasmic residues. Thus, we suggest that the REAC-VNPPO treatment for stallions with idiopathic subfertility may enhance the reproductive performance of stallions.

Keywords

Stallion spermatozoa; REAC-VNPPO therapy; TEM; Subfertility