

THE INFLUENCE OF ELECTRO-ACUPUNCTURE ON THE JOINTS OF DOGS WITH SYNOVITIS

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BACKGROUND. The synovial membrane of a joint capsule first responds to the action of traumatic factor, because of its morphological features. This is due to its rich blood supply and innervation. Synovitis - inflammation of the synovial membrane of a joint capsule.

The aim of our study was to examine the effectiveness of electro-acupuncture in the treatment of dogs with acute aseptic synovitis of the elbow joint, evolved as a result of the closed mechanical damage (injury).

METHODS. Used Multifunction apparatus for electro-acupuncture "Luch", which allows you to determine the exact location of biologically active points (BAP), to test their condition and to treatment with regard to irregularities in the tissues of the body was used. For impact were selected locally located in the region of the elbow BAP №№ 85, 86, 87, 88, 89 (classification G.V. Kazeev, 2000 [1]). Stimulation was performed by constant electric current (with automatic change of polarity) with the power of 25 μ a for 1 minute once per day.

RESULTS. During the research it was found that at the stage of the inflammatory swelling of the BAP № 85, 86 is not identified. The levels of electrical conductivity (current (μ a) between passive and active electrode) on the "positive" and "negative" polarity test BAP (№ 87, 88, 89) in the presence of the inflammatory process are from $10.2 \pm 0.62 \mu$ a to $23.4 \pm 0.54 \mu$ a. In clinically healthy dogs these parameters have values from $16.6 \pm 0.71 \mu$ a to $18.2 \pm 0.63 \mu$ a. The asymmetry coefficient of the conductivity (the level of electrical conductivity to the negative polarity of the microammeter to this indicator positive) in clinically healthy dogs is of 0.91 was 1.06 (± 0.05), and when synovitis – 0.44-0.57 (± 0.08).

CONCLUSION. Our proposed method of stimulation locally located in the region of the elbow joint BAP, allows to obtain a therapeutic effect on 12-14 days from the onset of the disease, i.e., after conducting 9-12 sessions of electroacupuncture. In addition, biophysical parameters BAP can serve as an additional criterion for the diagnosis of diseases of the joints.

REFERENCES

[1] Kazeev G.V. Veterinarnaja akupunktura / G.V. Kazeev. - Moskva: RIO RGAZU, 2000. - 398 s. (in russian)