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Motor and Sensory Nerve Conduction Study in the Ferret

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Abstract

Ferrets are considered a popular small mammal pet, and like other companion animals, they are reported to suffer from diseases affecting the neuromuscular system. There currently are a lack of comprehensive electrodiagnostic studies regarding the appendicular nerves of ferrets published in veterinary medical literature. In this research investigation, twenty-five domestic ferrets were used for electromyography and motor nerve conduction studies of the tibial, fibular, ulnar and radial nerves, including H reflexes of the tibial and ulnar nerves, as well as sensory conduction of the fibular nerve. Mean and standard deviations for motor and sensory nerve studies were established. The hypothesis that weight would be correlated with all distal and proximal compound muscle action potential latencies was tested and confirmed for the tibial, fibular and radial nerves but not the ulnar nerve.

Key words

Electrodiagnostic; ENG; EMG; Nerve conduction; Ferret; Mustela putorius furo