

# NEUROLOGICAL STUDY ALGORITHM USING NEUROSURGICAL SCALES FOR SPINAL TRAUMAS IN DOGS

*R. V. Biloshytskyy*

National University of Life and Environmental Sciences of Ukraine  
16, Polkovnika Potehina str., Kyiv, 03041, Ukraine

An urgent issue in veterinary neurology is the examination of the patient's condition after traumatic injury of the axial skeleton using neurosurgical scales. When performing a clinical examination, the animal's condition is assessed using the Protocol of Neurological Examination with the definition of the location of the site of possible damage and somatom, which corresponds to a certain pair of spinal nerves. Accurate detection of the lesion site allows us to correctly formulate the prognosis, the method of surgical intervention and drug treatment in conditions of inpatient care in the clinic of veterinary medicine.

**Introduction.** To obtain an objective assessment of the animal's condition, a neurological protocol is used, followed by the determination of the lesions of the spine departments or the corresponding groups of nerves. Its main indicators are studies of the head, 12 pairs of cranial nerves, determination of spinal and postural reflexes, pain sensitivity. Valuable data is also considered the assessment of the course and placement of the body in space. Identification of existing clinical signs in animals can be grouped into a neurological syndrome, which, as a rule, has a more severe course and a cautious prognosis.

**Aim of work.** Conduct a neurological examination in an animal that has suffered an injury to the spine and spinal cord with partial or complete loss of motor activity.

**Materials and methods.** Neurological protocol Neurologic Examination Form (2010) neurosurgical scales to determine the gradation of the sensory and motor function of ASIA; ASIA Impairment Scale (AIS) ASIA (American Spinal Injury Association).

**Summary:** 1. The use of the neurological protocol allows a high probability to establish a preliminary or accurate diagnosis and determine the prognosis for the near future.

2. The use of the motor and sensory function scales (ASIA) in practice allows a more narrow examination of the pathological condition and a qualitative surgical intervention without damage to vital organs and systems.

**Keywords:** ASIA, NEUROLOGICAL PROTOCOL, SENSOR FUNCTION, NEUROSURGICAL SCALE, SOMATOM.