

CNS-Physiology

Archive

Lecture 4

Spinal Cord Reflexes

Medical card

Name _____

Date of b _____

Gender _____

Address _____

Date of call _____

Sign _____

1. One of the following is NOT true about dynamic phase:

- A. Receptors are nuclear bag
- B. It is represented by tendon jerk
- C. It discharges in secondary afferent neuron
- D. Muscle fibers are stimulated at the same time
- E. It is stimulated by sudden stretch

Answer: C. It discharges in secondary afferent neuron.

2. All of the following would increase the discharge of central part of muscle spindle EXCEPT:

- A. Discharge of gamma motor neuron.
- B. Discharge of alpha motor neuron.
- C. Changes in muscle length.
- D. Stretching the muscle.
- E. None of the above.

Answer: B. Discharge of alpha motor neuron.

3. As per gamma efferent innervations of muscle spindle:

- A. It will cause an increase in discharges from peripheral part of muscle spindle.
- B. It will cause an increase in discharges from central part of muscle spindle.
- C. It supplies the central part of the muscle spindle.
- D. Its stimulation causes inhibition of the stretch reflex.
- E. Its stimulation contracts the central receptor part of the muscle spindle.

Answer: B. It will cause an increase in discharges from central part of muscle spindle.

4. The nuclear- bag fibers of muscle spindles are innervated by:

- A. A γ nerve fibers.
- B. A β nerve fibers.
- C. A δ nerve fibers.
- D. Ia nerve fibers.
- E. II nerve fibers.

Answer: D. Ia nerve fibers.

5. Muscle spindles:

- A. Are found in all skeletal muscles.
- B. Are found only in large skeletal muscles.
- C. Consist of small numbers of extrafusal muscle fibers.
- D. Consist of a large number of extrafusal muscle fibers.
- E. Consist of three types of intrafusal fibers.

Answer: A. Are found in all skeletal muscles.

6. The central ends of afferents from muscle spindles synapses with all of the following types of neurons EXCEPT:

- A. α - motor neurons of the same muscle.
- B. γ - motor neurons of the same muscle.
- C. Local interneurons.
- D. 2nd order neurons of ascending sensory pathways.
- E. None of the above.

Answer: B. γ - motor neurons of the same muscle.

7. All of the following according to dynamic stretch reflex are correct EXCEPT:

- A. Tendon jerk.
- B. Stimulated by sudden tapping on tendons.
- C. Receptors are nuclear bag.
- D. it discharges in flower spray fibers.
- E. it might be stimulated by sudden stretch.

Answer: D. It discharges in flower spray fibers.

8. The nerve supply of nuclear bag of muscle spindle is:

- A. $A\gamma$ nerve fibers.
- B. $A\beta$ nerve fibers.
- C. $A\delta$ nerve fibers.
- D. Ia nerve fibers.
- E. II nerve fibers.

Answer: D. Ia nerve fibers

الأسئلة التالية هي أرشيف سابق وهي لا تتعلق بشكل مباشر مع المحاضرات السنة الحالية

1. One of the following is NOT consistent with stretch reflex:

- A. Myotatic reflex
- B. Monosynaptic reflex.
- C. Polysynaptic reflex.
- D. All of the above are true.

Answer: D. All of the above are true.

