

PNS-Physiology

Archive

Lecture 1

Physiology of Peripheral
Nerves

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1. The rate of conduction of action potentials along a nerve will be increased by:
- Hypoxia.
 - Local anesthetic.
 - Mechanical pressure on the nerve fiber.
 - Decreasing the diameter of the nerve
 - Increased thickness of nerve fiber.

Ans: e

2. Regarding nerve conduction, which of the following is correct?

- Higher velocity in wide diameter than smaller diameter
- In current flow, the active transmission occurs from outer activated to inactivated
- In current flow, the active transmission occurs from inner activated to inactivated
- More velocity in myelinated nerves

Ans: d

3. True about chronaxie:

- It is a measure of excitability
- It is the minimum voltage required to stimulate a nerve
- It is the time required to reach action potential at threshold current
- It is independent of rheobase

Ans: a

All true of the following statements about the action potential in neurons except:

- Depolarization occurs due to Na^+ influx
- Repolarization occurs due to K^+ efflux
- The inside of the membrane becomes positive during depolarization
- Transition from active to inactive occurs outside the neuron

answer: D