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Human Reflex Physiology

The Reflex Arc

1. Define *reflex*. A rapid, predictable, involuntary motor response to a stimulus that is mediated over a neural pathway called a reflex arc.
2. Name five essential components of a reflex arc: receptor, sensory neuron, integration center, motor neuron, and effector.
3. In general, what is the importance of reflex testing in a routine physical examination? Allows the condition of the nervous system to be assessed. Pathology is indicated by exaggeration, distortion, or absence of reflexes normally present.

Somatic and Autonomic Reflexes

4. Use the key terms to complete the statements given below.

Key: a. abdominal reflex d. corneal reflex g. patellar reflex
 b. Achilles reflex e. crossed-extensor reflex h. plantar reflex
 c. ciliospinal reflex f. gag reflex i. pupillary light reflex

Reflexes classified as somatic reflexes include the a, b, d, e, f, g, h, and i.

Of these, the simple stretch reflexes are b and e, and the superficial cord reflexes are d and h.

Reflexes classified as autonomic reflexes include c and i.

5. Name two cord-mediated reflexes. Achilles reflex and patellar reflex (crossed-extensor reflex is also cord mediated)

Name two somatic reflexes in which the higher brain centers participate. abdominal
and plantar (also the corneal and gag reflexes)

6. Can the stretch reflex be elicited in a pithed animal (that is, an animal in which the brain has been destroyed)? Yes, in a singly pithed frog in which the cord is intact.

Explain your answer. It is a cord-mediated reflex (initiated and executed at the spinal cord level).

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