

Reflex Arc Lab

Purpose

- To study the simplest functional unit of the nervous system: the reflex arc.
- To understand the difference between a reflex and a reaction.

Background

Neurons communicate in many ways, but much of what the body must do every day is programmed as reflexes. Reflexes are rapid, predictable, involuntary motor responses to stimuli and they occur over neural pathways called **reflex arcs**.

Reflexes can be classed as either autonomic or somatic reflexes. **Autonomic reflexes** are not subject to conscious control. These reflexes activate smooth muscles, cardiac muscle, and the glands of the body and they regulate body functions such as digestion and blood pressure.

Somatic reflexes include all reflexes that stimulate skeletal muscles. An example of such a reflex is the rapid withdrawal of your foot from a piece of glass you have just stepped on. Most reflexes have a minimum of five functional elements

1. The **receptor** reacts to a stimulus.
2. The **sensory neuron** conducts the afferent impulses to the CNS.
3. The **integration center** consists of one or more synapses in the CNS (not present in a monosynaptic reflex)
4. The **motor neuron** conducts the efferent impulses from the integration center to an effector
5. The effector, muscle fibers or glands, respond to the efferent impulses by contracting or secreting a product

Procedure: Somatic Reflexes

Stretch Reflexes – Knee-jerk reflex; Achilles reflex

1. Have the subject sit on the edge of a table with one leg dangling freely.
2. Tap the patellar ligament sharply with the reflex hammer to elicit response
3. The knee-jerk reflex assesses the L2-L4 level of the spinal cord.
4. Test both knees and record your observations.

Which muscles contracted? _____

5. Sketch a diagram of the reflex arc and label the receptor, sensory neuron, dorsal root, ventral root, motor neuron, and effector.
6. Now test the effect of muscular activity occurring simultaneously in other areas of the body. Tap the patellar ligament while the subject performs the **Jendrassik's maneuver** (the subject clasps his/her hands in front of him/her and, with fingers locked, tries vigorously to pull his/her hands apart). Is the response greater or less than the first time? _____
If you observed that mental distraction or the Jendrassik's maneuver influenced the patellar reflex, explain the reason in the space below in complete sentences.

Reflex Arc Lab Answers

Connie Allen, Valerie Harper



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Anatomy & Physiology Laboratory Manual and E-Labs E-Book Kevin T. Patton, 2018-01-24 Using an approach that is geared toward developing solid logical habits in dissection and identification the Laboratory Manual for Anatomy and coloring exercises offer a kinesthetic experience useful in retention of content User friendly spiral binding allows for hands free viewing in the lab setting Step by step dissection instructions with accompanying illustrations and photos cover anatomical models and fresh or preserved specimens and provide needed guidance during dissection labs The dissection of tissues organs and entire organisms clarifies anatomical and functional relationships 250 illustrations including common histology slides and depictions of proper procedures accentuate the lab manual s usefulness by providing clear visuals and guidance Easy to evaluate tear out Lab Reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs you have participated in They also allow instructors to efficiently check student progress or assign grades Learning objectives presented at the beginning of each exercise offer a straightforward framework for learning Content and concept review questions throughout the manual provide tools for you to reinforce and apply knowledge of anatomy and function Complete lists of materials for each exercise give you and your instructor a thorough checklist for planning and setting up laboratory activities allowing for easy and efficient preparation Modern anatomical imaging techniques such as computed tomography CT magnetic resonance imaging MRI and ultrasonography are introduced where appropriate to give future health professionals a taste for and awareness of how new technologies are changing and shaping health care Boxed hints throughout provide you with special tips on handling specimens using equipment and managing lab activities Evolve site includes activities and features for students as well as resources for instructors

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