

Reflex Arc Lab

Hypothesis

- a) Using what you know about reflexes, predict what will happen in each part of the procedure

Part I: Knee Jerk Reflex

When the patellar tendon is tapped, it is expected that the leg will extend and straighten out very quickly, this is because this action activates the knee jerk reflex. This occurs as sensory signals travel to the spinal cord and trigger a motor response, which causes an involuntary stretching of the quadriceps muscle, and in reaction to this, the muscles contract, which causes the leg to straighten. If the subject clenches a book during the test, it is hypothesized that the reflex may be delayed or the strength might slightly decrease. This is due to the extra muscle tension that comes from clenching the book, this causes more motor neurons to be activated, as well as more muscle groups being involved during the procedure, which might cause more time for the knee jerk reflex to occur due to the multiple neurons and muscle groups being at play.

Part II: Achilles Reflex

When the Achilles tendon is tapped, the foot is expected to plantar flex, or point down, as the calf muscles contract in response to the stimulus. This is because the tendon stretches due to the stimulus and activates muscle spindles in the muscles located in the calf, the sensory neurons in the muscles send a signal to the spinal cord and the spinal cord sends a motor neuron signal back to the calf muscles and causes them to contract. This reflex helps maintain balance and posture by responding to sudden stretches.

Part III: Babinski Reflex

Stroking the sole of the foot is expected to cause the toes to curl downward, or plantar flex, similar to the previous procedure. This is due to sensory neurons in the skin sending a signal to the spinal cord when the foot is stroked, the signal travels up the spinal cord and reaches the brain where motor neurons are sent back down to the spinal cord, then the spinal cord carries the signal to the muscle of the foot,

Reflex Arc And Reflexes Lab Answers

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Reflex Arc And Reflexes Lab Answers:

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