

# Muscle Function Analysis

Muscle tissues maintain electrical imbalances, or *potentials*, across cell membranes by concentrating positive or negative charges on opposite sides of those membranes. These potentials are a form of stored energy. With activation (such as from a nerve impulse), the ions are allowed to cross the muscle cell membranes, generating electrical activity and resulting in muscle contraction.

An electromyogram, or EMG, is a graphical recording of electrical activity within muscles. It is useful in the diagnosis of disorders affecting muscles and the nerves that supply them. Inherited and acquired disorders of muscles (such as the muscular dystrophies), and disorders of the central and peripheral nervous systems (such as Huntington's disease and diabetic neuropathy) result in abnormal EMG readings.

EMG studies are also useful for investigating normal muscle function. In this experiment, you will analyze electrical activity in the extensor muscles of the forearm. These muscles originate in tendons of the proximal dorsal forearm in the region of the lateral epicondyle and attach distally to tendons which control extension of the hand and fingers (see Figure 1). Inflammation of the tendons at the elbow is common and can result from repetitive motions used in sports, hobbies, and in the workplace. This experiment will demonstrate the rationale behind treating tennis elbow with a wrist splint.

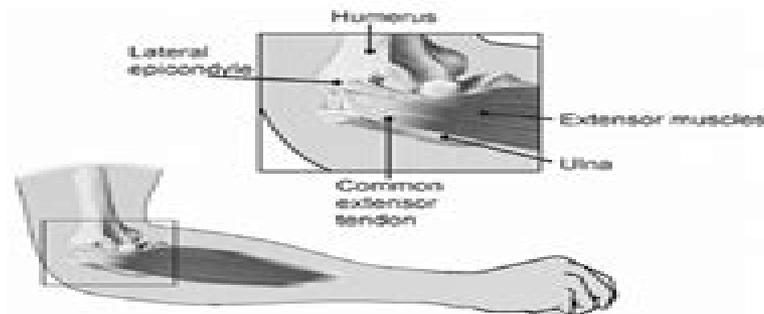


Figure 1

**Important:** Do not attempt this experiment if you suffer from tennis elbow or other disorders of the arm or hand. Inform your instructor of any possible health problems that might be exacerbated if you participate in this exercise.

# Muscle Function Analysis Answer

**RD Boyd**



**Muscle Function Analysis Answer:**

## Whispering the Techniques of Language: An Psychological Journey through **Muscle Function Analysis Answer**

In a digitally-driven world where displays reign great and quick connection drowns out the subtleties of language, the profound techniques and mental nuances hidden within phrases often go unheard. However, situated within the pages of **Muscle Function Analysis Answer** a captivating literary treasure pulsating with organic thoughts, lies an extraordinary quest waiting to be undertaken. Penned by a talented wordsmith, that marvelous opus invites viewers on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within ab muscles material of each and every word. Within the emotional depths of this touching evaluation, we can embark upon a sincere exploration of the book is core themes, dissect their charming writing fashion, and yield to the effective resonance it evokes deep within the recesses of readers hearts.

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