

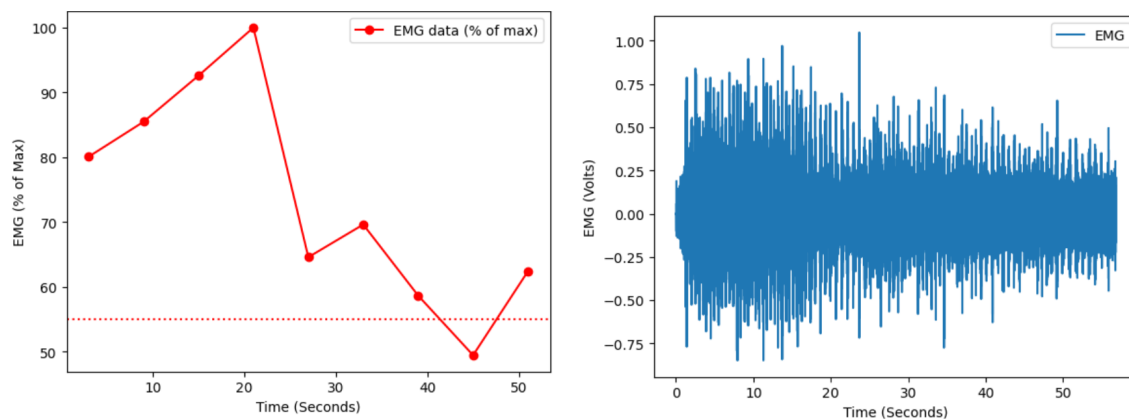
Katreese Pineda
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Lab 9

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Purpose: The purpose of this lab is to demonstrate the concept of agonist, antagonist, and synergist muscles. The agonist is the prime mover, the antagonist is the muscle that works in opposition to the agonist, and the synergist will aid the agonist and help with the movement of the muscle. It is also to help us practice more with lab scribes and using EMG equipment.

Procedure: My partner and I are to set up the IXW/214 unit and put in the needed color coded wires, red, black, green, white, and brown. We are to put in the document needed from the github we received from the professor and upload it into lab scribe. Then we add the sticky disposable electrodes onto 6 different locations, two on the back left arm, three on the front, and one in between the 5 locations mid arm. The red would be on the front left arm and so will the colors blue and green. The colors white and brown go in the back and the black will be in the middle. When we are fully connected the test subject then flexes their forearm from flexion to neutral to extension

Results:



Discussion: During this experiment we were able to see Ezri's active EMG data when he is at both resting and doing some type of physical movement. We saw much movements in volts per second when he was flexing his forearm and even more volts per second when he was squeezing the tennis ball as it seemed it took for energy and strength. Ezri was also doing a combination of multiple types of flexion within his forearm with and without the tennis bar just to see how the data would look. The data was much "louder" when he was doing these movements.

Conclusion: In this lab, we were able to see the EMG data of Ezri while he did movements of flexion and extension with his forearm. We got to see the data move in multiple ways including when his forearm was at rest. The overall purpose of this lab is to see how the agonist,

synergist, and antagonist works in the form of volts per second in EMG scribed data. This lab also introduced us to the equipment where we will later use for EKG.