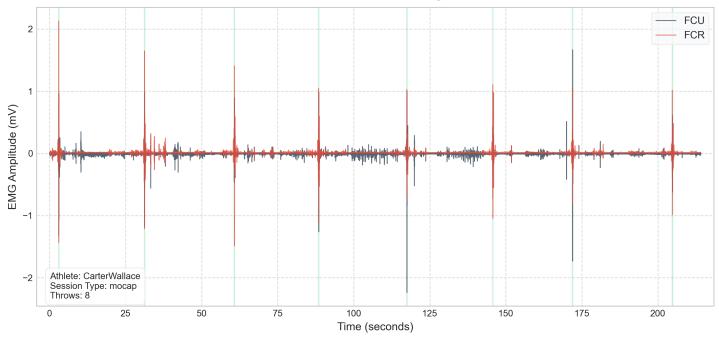
# CarterWallace EMG Report for mocap Session

February 27, 2025

# **Throwing Summary**

# **EMG** Activity

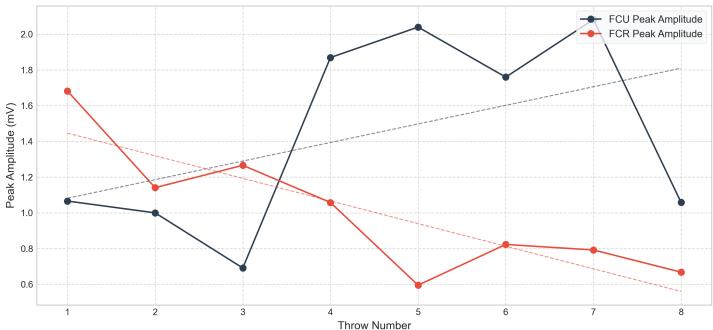




EMG muscle activity throughout the session with throw regions highlighted in green.

# **Muscle Activation Intensity**

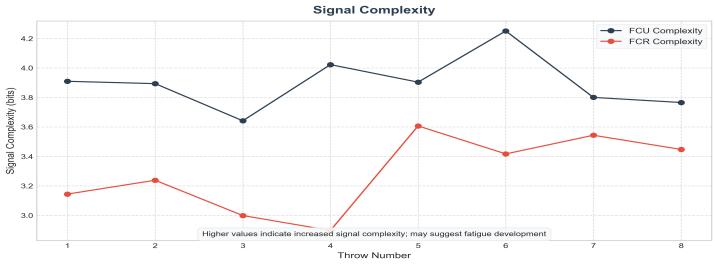
### **Muscle Activation Intensity**



Peak muscle activation intensity for each throw.

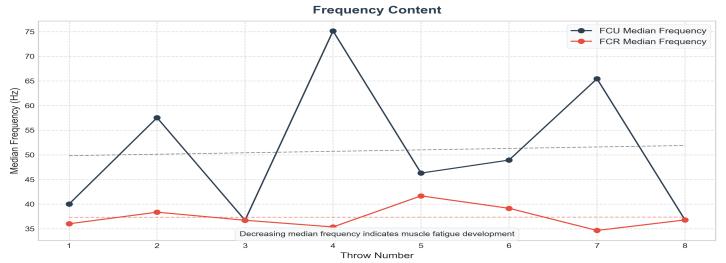
# **Fatigue and Twitch Analysis**

# **Signal Complexity**



Signal complexity (spectral entropy) across throws.

# **Frequency Content**

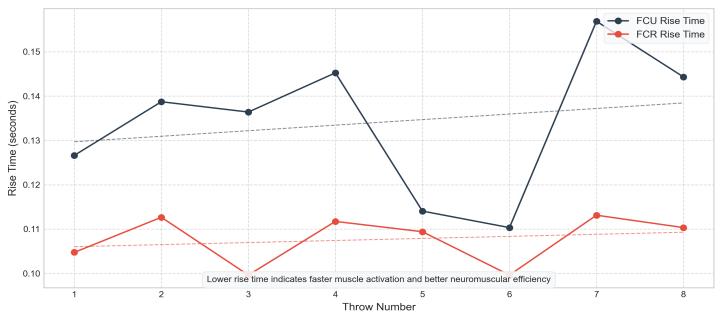


Median frequency content across throws.

# **Neuromuscular Analysis**

# **Neuromuscular Efficiency (Rise Time)**

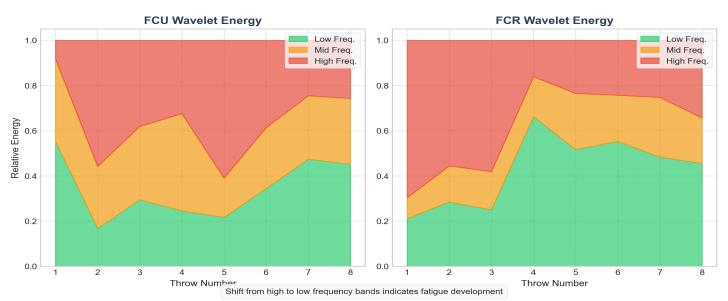
#### **Muscle Activation Rise Time**



Muscle activation rise time (time to reach peak contraction) across throws.

# **Wavelet Energy Distribution**

#### **Wavelet Energy Distribution**



Distribution of energy across frequency bands for each throw.