

## Biomechanical Analysis and Interpretation of Pitching Sequences for Enhanced Performance Programming

**Authors :** Corey F. Fitzgerald

**Abstract :** This study provides a comprehensive examination of the biomechanical sequencing inherent in pitching motions, coupled with an advanced methodology for interpreting gathered data to inform programming strategies. The analysis is conducted utilizing state-of-the-art biomechanical laboratory equipment capable of detecting subtle changes and deviations, facilitating highly informed decision-making processes. Through this presentation, the intricate dynamics of pitching sequences are meticulously discussed to highlight the complex movement patterns accessible and actionable for performance enhancement purposes in the weight room.

**Keywords :** sport science, applied biomechanics, strength and conditioning, applied research

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