

Isokinetic Muscle Fatigue Reliability: Analysis of Year 3 Data

- Outcome variables:

Extension

C1PTORQE – Peak torque (Nm)
C1FINDE – Fatigue index (%)
C1TOTWKE – Total work (J)
C1POWERE – Power (W)

Flexion

C1PTORQF – Peak torque (Nm)
C1FINDF – Fatigue index (%)
C1TOTWKF – Total work (J)
C1POWERF – Power (W)

- Model: mixed models analysis

$$y_{ij} = \mu + \text{site}_{(0,1)} + \text{testday}_{(0,1)} + \text{gender}_{(0,1)} + \text{ppt}_i + \text{tech}_j + e_{ij}$$

i = participant

j = technician

(Testday indicates whether repeat test was done on same day as original test)

Fixed effects: site, testday, gender

Random effects: participant, technician