KAAP 602

Assignment #11

Directions: Using the data contained in ShoulderMeasureReliability.xlsx, run the following analyses:

1. Calculate an ICC(3,1) for the CBA data to determine reliability of the measures from motion capture (MotionCBA), physician measures (ClinicalCBA), and occupational therapist measures (GoniometerCBA).
2. Create Bland-Altman plots to test the assumption that the measures agree when they are within 10 degrees of each other. Specifically, create Bland-Altman plots to test each of the following pairings:
   1. Motion vs. Clinical
   2. Motion vs. Goniometer
   3. Clinical vs. Goniometer
3. Calculate a 1-sample t-test for each of the three pairings above and determine whether any are equivalent within a +/- 10 degree window. Plot the error bars to display a graphic representation of your conclusion.