HW #2 Assignment: Upper Extremity

Apply what you’ve learned through our mini-labs on literature reviews and meeting presentations to prepare a short 3-slide presentation (approx. 3 minutes in length) answering the question you selected in class on the upper extremity. The slides are due via email on Monday, 2/22/16 by 6 pm; and you will present your slides during Session 15B.

Elbow

1) Describe the functional anatomy of the elbow joint and how is it similar/different from the knee? [Brian Cook]

2) How has the force distribution across the elbow joint been measured biomechanically and at what position(s) are they at the maximum? [Haijing Hong]

3) What is meant by active stabilization of the elbow joint; what are active and passive stabilizers and why are they important? [Mark Goldstein]

4) Describe the carrying angle for the elbow, how does it compare to the “Q” angle for the knee, and why is it different between males and females? [Kateri Gilliland]

5) What are common traumatic and overuse injuries to the elbow and how are they treated/repaiired? [Eric Thorhauer]

6) What is “Tommy John” surgery (provide sports context), and what biomechanical factors have been studied towards optimizing the reconstruction? [Corey Pew]

Wrist

7) Describe the functional anatomy of the wrist and how is it similar/different from the ankle? [Ty Youngblood]

8) What are the ranges of motion of the human wrist and how do they differ from (“knuckle-walking”) non-human primates? [Michael Rosenberg]

9) What biomechanical studies have been performed to evaluate the forces transmitted across the wrist joint, and how are they distributed between the radius and ulna? [Guangcan Lu]

10) What are common traumatic and overuse injuries to the wrist and how are they treated/repaiired? [Vijeth Rai]