

- o. claw hand _____

- p. Erb's palsy _____

- q. Klumpke's palsy _____

APPLICATION EXERCISES

1. **Inspect and compare the 2 upper limbs and the 2 lower limbs. Focus on symmetry, specifically regarding muscle bulk and contour. Describe and characterize any observed asymmetry or side-to-side differences in bulk and contour.**
2. **Is observed asymmetry necessarily a sign of abnormality or pathology?**

3. **If not, how much asymmetry might be seen in the normal population and how might you explain the presence of visible asymmetry between muscles or muscle groups?**

4. **On several lab partners, demonstrate and describe how to measure strength of each of the following movements and assign an appropriate strength grade.**

Upper Limb

Strength Grade

- | | |
|-----------------------------------|-------|
| a. shoulder abduction | _____ |
| b. elbow flexion | _____ |
| c. elbow extension | _____ |
| d. wrist extension | _____ |
| e. wrist flexion | _____ |
| f. finger extension | _____ |
| g. finger flexion (grip strength) | _____ |
| h. finger abduction | _____ |
| i. finger adduction | _____ |