#### **Proximal center of mass definitions**

Chart, radar chart

Description automatically generated

##### Figure A-2: Leg body segments showing centre of mass (Centroid), proximal distance of COM as a percentage of the total longitudinal length of the segment (%COM) and longitudinal length of segment (Length). Estimated Hip joint center (HJC), Knee joint center (KJC), and Ankle joint center (AJC) are shown.

##### Diagram Description automatically generated

##### Figure A-3: Upper body segments showing centre of mass (Centroid), proximal distance of COM as a percentage of the total longitudinal length of the segment (%COM) and longitudinal length of segment (Length). Estimated Vertex, Cervicale, Xiphoid, Omphalion and Pubis are also shown.

#### **Chart Description automatically generated**

##### Figure A-4: Arm segmentation showing centre of mass (Centroid), proximal distance of COM as a percentage of the total longitudinal length of the segment (%COM) and longitudinal length of segment (Length). Estimates of the third metatarsal (3rd Met), Wrist joint center (WJC), Elbow joint centre (EJC), and Shoulder joint center (SJC) define the estimated endpoints of each segment.