

Overview of Kinect and Optotrak body points. For the latter, AP, ML and V position time series were computed from virtual markers and/or smart markers. In case of a single virtual marker or smart marker, the time series of that specific marker were taken as the time series of the associated body point. In case of multiple virtual markers and/or smart markers, the associated marker positions were averaged in all three directions for each time sample.

Kinect body point	Smart Marker Rigid Body position	Virtual marker position	Smart marker position
Head	Head	Nasion, inion and right and left ear	-
Neck	-	-	-
Spine shoulder	-	-	Sternum
Spine mid	-	-	-
Spine base	Lower abdomen	Right and left anterior superior and posterior superior iliac spine	-
Shoulders	Upper arms	Head of the humerus	-
Elbows	Upper arms	Medial and lateral epicondyles	-
Wrists	Forearms	Distal heads of the radius and ulna	-
Hands	-	-	Back of the hand
Hand tips	-	-	-
Thumbs	-	-	-
Hips	Upper legs	Trochanter major	-
Knees	Upper legs	Medial and lateral condyles	-
Ankles	Lower legs	Medial and lateral malleoli	-
Feet	Feet	Calcaneus	Head of the distal phalanx of the hallux