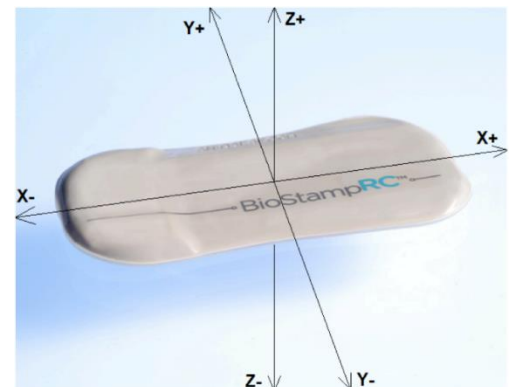| Chest and Thigh Dominant axis: Posture	Final Posture
+x and +x: Lying on right side with leg in air	
+x and +y: Lying on right side	
+x and +z: Lying on right side with leg toes-up	
+x and -y: Lying on right side with leg turned to left	
+x and -z: Lying on right side with leg toes-down	
+z and +x: Lying on back with leg in air	
+z and +y: Lying on back with leg turned to right	
+z and +z: Lying on back	
+z and -x: Lying on back with leg hanging down	
+z and -y: Lying on back with leg turned to left	
+z and -z: Lying on back with toes over head	
-x and +x: Lying on left side with leg in air	Lying Down
-x and +y: Lying on left side with leg turned to right	
-x and +z: Lying on left side with leg toes-up	
-x and -y: Lying on left side	
-x and -z: Lying on left side with leg toes-down	
-y and -z: Lying face-down with torso hanging down	
-z and +x: Lying face-down with leg in air	
-z and +y: Lying face-down with leg turned to left	
-z and +z: Lying down and touching toes	
-z and -y: Lying face-down with leg turned to right	
-z and -z: Lying face-down	
+y and -z: Lying face down with chest up	
+y and +z: Sitting	Sitting
+y and -x: Upright	
-x and -x: Upright and leaning to left	
-y and -x: Upright doubled-over	Upright
-z and -x: Upright bent forward horizontally	
+x and -x: Upright and leaning to right	
+y and +x: Standing/sitting with leg in the air	
+y and +y: Standing/sitting with leg extended to right	Stand/Sit
+y and -y: Standing/sitting with leg extended to left	
-y and +x: Upside-down	
-y and +y: Upside-down with leg turned to right	Upside Down
-y and +z: Upside-down with leg horizontal toes-up	
-y and -y: Upside-down with leg turned to left	

Supplementary Table 1. Chest and thigh dominant axis with corresponding postures

*Anomalous "upside-down" posture accounts for 0.5-1% of all postures, omitted from analysis