

Supplementary Table 1. Robustness of the rotations calculated from the bony match and the marker constellation.

Rotation [°]	Mean [min max] Standard deviation		
	Marker constellation		
	Bony match	All patients	27 included
	4 repetitions		patients
Pitch (RL)	0.14 [0.05 – 0.28]	0.63 [0.19 – 1.38]	0.64 [0.19 – 1.38]
Roll (SI)	0.25 [0.05 – 0.50]	0.71 [0.19 – 1.24]	0.69 [0.19 – 1.24]
Yaw (AP)	0.12 [0 – 0.34]	0.96 [0.18 – 6.74]	0.76 [0.18 – 1.78]
Abbreviations: RL = right-left, SI = superior-inferior, AP = antero-posterior.			