Supplementary Material D

Repository of pictures showing constructed ACS on our dataset



For each algorithm the ACSs of the subjects displaying the minimal, median and maximal orientation variability (GVA) are shown.

ACS differences for tibial algorithms



ACS differences for tibial algorithms

All ACS origins were translated to PIAASL ACS origin to facilitate comparison of the ACS orientation differences



All constructed ACSs on the operator2's reconstruction of the tibia of subject 8.

ACS differences for femoral algorithms





All constructed ACSs on the operator3's reconstruction of the femur of subject 12.

ACS differences for femoral algorithms

All ACS origins were translated to PCC ACS origin to facilitate comparison of the ACS orientation differences





All constructed ACSs on the operator3's reconstruction of the femur of subject 12.

ACS differences for patellar algorithms



ACS differences for patellar algorithms

All ACS origins were translated to PIAAS ACS origin to facilitate comparison of the ACS orientation differences



Differences between ACSs from the 3 different operators for tibial algorithms

ACS constructed from operator1 reconstruction with algorithm ECASE.

ACS constructed from operator2 reconstruction with algorithm ECASE.





ECASE best case

ACS constructed from operator3 reconstruction with algorithm ECASE.





ACS constructed from operator1 reconstruction with algorithm ECASE.





ECASE median case

ACS constructed from operator3 reconstruction with algorithm ECASE.





ACS constructed from operator1 reconstruction with algorithm ECASE.





ECASE worst case

ACS constructed from operator3 reconstruction with algorithm ECASE.





ACS constructed from operator1 reconstruction with algorithm CASC.





CASC best case

ACS constructed from operator3 reconstruction with algorithm CASC.





ACS constructed from operator1 reconstruction with algorithm CASC.





CASC median case

ACS constructed from operator3 reconstruction with algorithm CASC.





ACS constructed from operator1 reconstruction with algorithm CASC.





CASC worst case

ACS constructed from operator3 reconstruction with algorithm CASC.





ACS constructed from operator1 reconstruction with algorithm PIAASL.





PIAASL best case

ACS constructed from operator3 reconstruction with algorithm PIAASL.





ACS constructed from operator1 reconstruction with algorithm PIAASL.





PIAASL median case

ACS constructed from operator3 reconstruction with algorithm PIAASL.





ACS constructed from operator1 reconstruction with algorithm PIAASL.





PIAASL worst case

ACS constructed from operator3 reconstruction with algorithm PIAASL.









Kai et Al 2014 best case

ACS constructed from operator3 reconstruction with algorithm Kai et Al. 2014. The same 3 ACSs constructed displayed on an unique reconstruction to see the variability of Kai et Al. 2014





ACS constructed from operator2 reconstruction with algorithm Kai et Al. 2014.





Kai et Al 2014 median case

ACS constructed from operator3 reconstruction with algorithm Kai et Al. 2014.





ACS constructed from operator2 reconstruction with algorithm Kai et Al. 2014.





Kai et Al 2014 worst case

ACS constructed from operator3 reconstruction with algorithm Kai et Al. 2014.









Miranda et Al 2010 best case

ACS constructed from operator3 reconstruction with algorithm Miranda et AI. 2010. The same 3 ACSs constructed displayed on an unique reconstruction to see the variability of Miranda et AI. 20









Miranda et Al 2010 median case

ACS constructed from operator3 reconstruction with algorithm Miranda et Al. 2010. The same 3 ACSs constructed displayed on an unique reconstruction to see the variability of Miranda et Al. 20





ACS constructed from operator2 reconstruction with algorithm Miranda et Al. 2010.





Miranda et Al 2010 worst case

ACS constructed from operator3 reconstruction with algorithm Miranda et AI. 2010. The same 3 ACSs constructed displayed on an unique reconstruction to see the variability of Miranda et AI. 20



Differences between ACSs from the 3 different operators for femoral algorithms

ACS constructed from operator1 reconstruction with algorithm PCC.



ACS constructed from operator2 reconstruction with algorithm PCC.



PCC best case

ACS constructed from operator3 reconstruction with algorithm PCC.





ACS constructed from operator1 reconstruction with algorithm PCC.

ACS constructed from operator2 reconstruction with algorithm PCC.





PCC median case

ACS constructed from operator3 reconstruction with algorithm PCC.







ACS constructed from operator1 reconstruction with algorithm PCC.

ACS constructed from operator2 reconstruction with algorithm PCC.





PCC worst case

ACS constructed from operator3 reconstruction with algorithm PCC.





ACS constructed from operator1 reconstruction with algorithm PCS.

ACS constructed from operator2 reconstruction with algorithm PCS.





PCS best case

ACS constructed from operator3 reconstruction with algorithm PCS.





ACS constructed from operator1 reconstruction with algorithm PCS.

ACS constructed from operator2 reconstruction with algorithm PCS.





PCS median case

ACS constructed from operator3 reconstruction with algorithm PCS.





ACS constructed from operator1 reconstruction with algorithm PCS.





PCS worst case

ACS constructed from operator3 reconstruction with algorithm PCS.





ACS constructed from operator1 reconstruction with algorithm CE.





CE best case

ACS constructed from operator3 reconstruction with algorithm CE.





ACS constructed from operator1 reconstruction with algorithm CE.

ACS constructed from operator2 reconstruction with algorithm CE.





CE median case

ACS constructed from operator3 reconstruction with algorithm CE.







ACS constructed from operator1 reconstruction with algorithm CE.





CE worst case

ACS constructed from operator3 reconstruction with algorithm CE.





ACS constructed from operator2 reconstruction with algorithm Kai et Al. 2014.





Kai et Al 2014 best case

ACS constructed from operator3 reconstruction with algorithm Kai et Al. 2014.





ACS constructed from operator2 reconstruction with algorithm Kai et Al. 2014.





Kai et Al 2014 median case

ACS constructed from operator3 reconstruction with algorithm Kai et Al. 2014.





ACS constructed from operator2 reconstruction with algorithm Kai et Al. 2014.





Kai et Al 2014 worst case

ACS constructed from operator3 reconstruction with algorithm Kai et Al. 2014.





ACS constructed from operator2 reconstruction with algorithm Miranda et Al. 2010.





Miranda et Al 2010 best case

ACS constructed from operator3 reconstruction with algorithm Miranda et AI. 2010. The same 3 ACSs constructed displayed on an unique reconstruction to see the variability of Miranda et AI. 2010





ACS constructed from operator2 reconstruction with algorithm Miranda et Al. 2010.





Miranda et Al 2010 median case

ACS constructed from operator3 reconstruction with algorithm Miranda et AI. 2010. The same 3 ACSs constructed displayed on an unique reconstruction to see the variability of Miranda et AI. 2010





ACS constructed from operator2 reconstruction with algorithm Miranda et Al. 2010.





Miranda et Al 2010 worst case

ACS constructed from operator3 reconstruction with algorithm Miranda et Al. 2010. The same 3 ACSs constructed displayed on an unique reconstruction to see the variability of Miranda et Al. 2010





Differences between ACSs from the 3 different operators for patellar algorithms

ACS constructed from operator1 reconstruction with algorithm PIAAS.





PIAAS best case

ACS constructed from operator3 reconstruction with algorithm PIAAS.







ACS constructed from operator1 reconstruction with algorithm PIAAS.

ACS constructed from operator2 reconstruction with algorithm PIAAS.





PIAAS median case

ACS constructed from operator3 reconstruction with algorithm PIAAS.







ACS constructed from operator1 reconstruction with algorithm PIAAS.

ACS constructed from operator2 reconstruction with algorithm PIAAS.





PIAAS worst case

ACS constructed from operator3 reconstruction with algorithm PIAAS.





ACS constructed from operator1 reconstruction with algorithm RL.





RL best case

ACS constructed from operator3 reconstruction with algorithm RL.





ACS constructed from operator1 reconstruction with algorithm RL.





RL median case

ACS constructed from operator3 reconstruction with algorithm RL.





ACS constructed from operator1 reconstruction with algorithm RL.





RL worst case

ACS constructed from operator3 reconstruction with algorithm RL.





ACS constructed from operator1 reconstruction with algorithm VR.





VR best case

ACS constructed from operator3 reconstruction with algorithm VR.





ACS constructed from operator1 reconstruction with algorithm VR.





VR median case

ACS constructed from operator3 reconstruction with algorithm VR.





ACS constructed from operator1 reconstruction with algorithm VR.





VR worst case

ACS constructed from operator3 reconstruction with algorithm VR.





ACS constructed from operator2 reconstruction with algorithm Rainbow et Al. 2013.





Rainbow et Al. 2013 best case

ACS constructed from operator3 reconstruction with algorithm Rainbow et AI. 2013The same 3 ACSs constructed displayed on an unique reconstruction to see the variability of Rainbow et AI. 2013



ACS constructed from operator1 reconstruction with algorithm Rainbow et Al. 2013.





Rainbow et Al. 2013 median case

ACS constructed from operator3 reconstruction with algorithm Rainbow et AI. 2013The same 3 ACSs constructed displayed on an unique reconstruction to see the variability of Rainbow et AI. 2013





ACS constructed from operator1 reconstruction with algorithm Rainbow et Al. 2013.





Rainbow et Al. 2013 worst case

ACS constructed from operator3 reconstruction with algorithm Rainbow et AI. 2013The same 3 ACSs constructed displayed on an unique reconstruction to see the variability of Rainbow et AI. 2013



