

Table 1. Mean operative differences in T<sub>2</sub> landmark distance (mm) between operators and paired t-test results for the accuracy between hand and automated superimposition, both compared with true values in cranial base superimposition.

	N	Operative difference (Hand process) (mm)		N	Accuracy (Hand process) (mm)		Accuracy (Automated process) (mm)		P-value
		Mean	SD		Mean	SD	Mean	SD	
Pt	84*	0.61	0.63	28	0.33	0.28	0.41	0.37	0.128
PNS	84	0.69	0.65	28	0.40	0.32	0.47	0.39	0.290
ANS	84	0.82	0.76	28	0.47	0.38	0.54	0.45	0.313
A	84	0.85	0.86	28	0.50	0.42	0.59	0.54	0.274
B	84	0.99	0.94	28	0.58	0.46	0.59	0.48	0.880
Me	84	1.02	0.96	28	0.55	0.51	0.64	0.58	0.366
Go	84	0.91	0.88	28	0.52	0.43	0.48	0.50	0.626
Co	84	0.67	0.68	28	0.39	0.34	0.44	0.35	0.254

\*: Because three operators were compared, a total 28 pairs of cephalograms could yield 84 measurement values.

Table 2. Mean operative differences in T<sub>2</sub> landmark distance (mm) between operators and paired t-test results for the accuracy between manual and automated superimposition, both compared with true values in maxillary superimposition.

	N	Operative difference (Hand process) (mm)		N	Accuracy (Hand process) (mm)		Accuracy (Automated process) (mm)		P- value
		Mean	SD		Mean	SD	Mean	SD	
PNS	84	0.79	0.60	28	0.47	0.25	0.56	0.44	0.189
ANS	84	0.82	0.64	28	0.56	0.37	0.57	0.44	0.855
A	84	0.78	0.56	28	0.54	0.34	0.53	0.45	0.889
UIE	84	0.82	0.63	28	0.51	0.33	0.53	0.38	0.737
UIA	84	0.80	0.58	28	0.49	0.30	0.61	0.61	0.220
UM	84	0.78	0.59	28	0.48	0.27	0.50	0.40	0.718
UMA	84	0.80	0.60	28	0.49	0.35	0.51	0.43	0.763

Table 3. Mean operative differences in T<sub>2</sub> landmark distance (mm) between operators and paired t-test results for the accuracy between manual and automated superimposition, both compared with true values in mandibular superimposition.

	N	Operative difference (Hand process) (mm)		N	Accuracy (Hand process) (mm)		Accuracy (Automated process) (mm)		P-value
		Mean	SD		Mean	SD	Mean	SD	
B	84	0.75	0.53	28	0.41	0.25	0.47	0.26	0.254
Pog	84	0.75	0.48	28	0.41	0.22	0.49	0.23	0.059
Me	84	0.70	0.45	28	0.42	0.22	0.46	0.32	0.566
Go	84	1.38	1.21	28	0.74	0.49	0.72	0.39	0.836
Co	84	1.65	1.24	28	0.94	0.59	0.69	0.50	0.695
LIE	84	0.62	0.86	28	0.52	0.36	0.58	0.30	0.538
LIA	84	0.76	0.55	28	0.41	0.25	0.47	0.26	0.226
LM	84	1.00	0.77	28	0.52	0.33	0.58	0.29	0.401
LMA	84	0.87	0.63	28	0.46	0.28	0.52	0.28	0.288