













segmen	itation fo	r CT		
0				
Table 1. Devi	ation of the Regis	tration Results Depend	ing on the Threshold	for the Bone
Surface Extract	ion in the CT Dat	taset	147.117.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
Ν	Maximal rotational	Maximal translational	Maximal rotational	Maximal translational
Threshold	(whole spine)	(whole spine)	(single vertebra)	(single vertebra)
100 HU	0.250°	0.5 mm	0.250°	0.5 mm
200 HU*	0.000°	0.0 mm	0.000°	0.0 mm
	0.500°	0.5 mm	0.125°	0.5 mm
300 HU	0.200			



## Registration results: varying incidence angle

 Table 2.
 Deviation of the Registration Results Depending on an Alteration of the Assumed Incidence Angle for the Ultrasound Wave

Alteration of the incidence angle	Maximal rotational misalignment (whole spine)	Maximal translational misalignment (whole spine)	Maximal rotational misalignment (single vertebra)	Maximal translational misalignment (single vertebra)
2°	0.250°	0.5 mm	0.375°	0.5 mm
4°	0.125°	0.5 mm	0.375°	0.5 mm
6°	0.125°	0.5 mm	0.375°	0.5 mm
8°	0.125°	0.5 mm	0.125°	0.5 mm
10°	0.125°	0.5 mm	0.250°	0.5 mm
12°	0.750°	1.5 mm	0.125°	1.0 mm
14°	0.625°	1.5 mm	0.250°	1.0 mm
16°	0.500°	1.5 mm	0.250°	1.0 mm
18°	0.750°	1.5 mm	0.750°	1.5 mm
20°	1.000°	2.0 mm	0.500°	1.5 mm

## Not significant





