

Table 2. Intraobserver variation (observer I) in US measurements of articular cartilage thickness in 17 healthy children

Observer I					
	Systematic Variation ¹ (Day I and Day II)		Random Variation ²		Total variation
	Mean difference ³ in mm	<i>p</i>	SD* ^{“within child”} in mm	SD [°] ^{“within joint”} in mm	SD (CV ⁴) in mm
Knee	0.01	0.916	0.07	0.20	0.21 (5.9%)
Ankle	0.03	0.623	0.16	0.14	0.21 (19.9%)
Wrist	0.08	0.707	0.58	0.35	0.68 (34.1%)
MCP	0.04	0.294	0.02	0.15	0.15 (12.9%)
PIP	-0.05	0.316	0.12	0.12	0.17 (25.8%)

1: Two weeks between the first a second measurement of cartilage thickness. ²Random variation (e.g. biological variation within children) ³Difference between cartilage thickness measurement day I and day II in mm. *SD=Standard deviation within child, refers to the variation in SD in mm between the right and left extremity [°]SD=Standard deviation within joint, refers to the SD in mm between observers within the same side extremity ⁴Coefficient of variation is calculated from the relative differences of measurements (CV=SD/mean x 100)