

TABLE E-1 Intraobserver Repeatability of Lateral Gapping Measurements on Varus Stress Radiographs

Observer	Lateral Gapping ( <i>mm</i> )			P Value <sup>†</sup>	Intraobserver Repeatability <sup>‡</sup>
	Trial 1*	Trial 2*	Change		
1	12.95 (5.89 to 20.01)	13.08 (5.96 to 20.19)	0.13	0.26	0.988 (0.985 to 0.991)
2	12.82 (5.79 to 19.85)	12.74 (5.97 to 19.50)	-0.08	0.49	0.989 (0.986 to 0.991)
3	13.15 (6.09 to 20.21)	13.33 (6.10 to 20.55)	0.18	0.13	0.990 (0.985 to 0.993)

\*The values are given as the mean lateral gapping distance as measured during trials performed after sequential sectioning of the main posterolateral structures and the cruciate ligaments. The values in parentheses represent 95% confidence intervals, calculated as the mean plus or minus two standard deviations. The trials were performed two weeks apart. <sup>†</sup>P values were determined with use of SAS software on the basis of a repeated-measures model with knee as the subject and load, knee state, observer, and trial as repeating measures (see text). For all three observers, the mean values from the two trials were not significantly different at the  $p < 0.025$  level. <sup>‡</sup>The values are expressed as the intraclass correlation coefficients. The values in parentheses represent the 95% confidence intervals, taken directly from the SPSS output.

TABLE E-2 Interobserver Reproducibility of Lateral Gapping Measurements on Varus Stress Radiographs

Trial	Lateral Gapping* ( <i>mm</i> )	Difference Compared with Observer 1† ( <i>mm</i> )	Difference Compared with Observer 2† ( <i>mm</i> )	Interobserver Reproducibility‡
Trial 1§				0.972 (0.964 to 0.977)
Observer 1	12.95 (5.89 to 20.01)	—	—	
Observer 2	12.82 (5.79 to 19.85)	-0.13 ( <i>p</i> = 0.82)	—	
Observer 3	13.15 (6.09 to 20.21)	+0.20 ( <i>p</i> = 0.24)	+0.33 ( <i>p</i> = 0.0132#)	
Trial 2§				0.974 (0.952 to 0.984)
Observer 1	13.08 (5.96 to 20.19)	—	—	
Observer 2	12.74 (5.97 to 19.50)	-0.34 ( <i>p</i> = 0.0093#)	—	
Observer 3	13.33 (6.10 to 20.55)	+0.25 ( <i>p</i> = 0.09)	+0.59 ( <i>p</i> < 0.0001#)	
Combined				0.973 (0.962 to 0.980)
Observer 1	13.01 (5.93 to 20.10)	—	—	
Observer 2	12.78 (5.89 to 19.67)	-0.23 ( <i>p</i> = 0.0123#)	—	
Observer 3	13.24 (6.10 to 20.38)	+0.23 ( <i>p</i> = 0.0156#)	+0.46 ( <i>p</i> < 0.0001#)	

\*The values are given as the mean lateral gapping distance as measured during trials performed after sequential sectioning of the main posterolateral structures and the cruciate ligaments. The values in parentheses represent 95% confidence intervals, calculated as the mean plus or minus two standard deviations. †P values for combined trials were derived from a repeated-measures model with knee as the subject and load, knee state, observer, and trial as repeating measures (see text). For the individual trials, p values were derived from a similar model stratified by trial. ‡The values are expressed as the intraclass correlation coefficients. The values in parentheses represent the 95% confidence intervals, taken directly from the SPSS output. §The trials were performed two weeks apart.

#Significant (*p* < 0.0167) after the Bonferroni multiple-comparison procedure.