

Appendix 1: Mean KOOS score and CI in Suture and APM compared with younger and middle-aged patients. With a 95% confidence interval of the mean difference.

Group	Age	Concurrent ACLR	Number	KOOS Pain	KOOS Symptoms	KOOS ADL	KOOS Sport/Rec	KOOS QOL
APM	18-34	No	50	82.8 ± 18.2	76.6 ± 19.4	88.3 ± 18.6	59.1 ± 26.9	62.9 ± 25.0
	35-54	No	196	79.1 ± 20.8	75.5 ± 21.9	85.3 ± 19.9	56.4 ± 31.7	59.0 ± 26.7
CI of the difference from mean value (p-value)				-9.5 – 2.1 (0.470)	-7.3 – 5.1 (0.972)	-8.8 – 2.8 (0.453)	-11.3 – 6.0 (0.744)	-11.8 – 4.0 (0.337)
Meniscus suture	18-34	No	31	82.0 ± 15.3	72.2 ± 18.3	91.4 ± 10.8	60.0 ± 29.5	59.6 ± 22.9
	35-54	No	21	84.0 ± 10.5	79.8 ± 16.7	91.5 ± 10.5	54.0 ± 28.0	50.1 ± 22.3
CI of the difference from mean value (p-value)				-5.0 – 9.0 (0.830)	-2.0 – 17.2 (0.150)	-5.8 – 6.0 (0.903)	-21.9 – 9.9 (0.359)	-22.0 – 3.0 (0.079)
APM	18-34	Yes	30	81.7 ± 18.1	72.1 ± 22.2	87.8 ± 18.8	61.2 ± 27.2	58.0 ± 23.7
	35-54	Yes	32	85.2 ± 14.1	80.7 ± 12.0	91.5 ± 14.7	61.9 ± 27.1	66.7 ± 19.5
CI of the difference from the mean value (p-value)				-4.6 – 11.6 (0.576)	-0.4 – 17.6 (0.229)	-4.7 – 12.1 (0.371)	-12.8 – 14.2 (0.983)	-2.1 – 19.5 (0.210)
Meniscus suture	18-34	Yes	39	83.9 ± 15.8	76.2 ± 19.0	92.7 ± 9.9	63.5 ± 23.9	59.7 ± 22.8
	35-54	Yes	22	87.8 ± 13.3	80.5 ± 16.3	93.1 ± 10.9	70.0 ± 25.9	66.7 ± 22.5
CI of the difference from mean value (p-value)				-3.5 – 11.3 (0.390)	-4.8 – 13.3 (0.479)	-5.1 – 5.9 (0.801)	-6.7 – 19.7 (0.227)	-4.8 – 18.8 (0.189)

Appendix 2: Table for KOOS score in younger participants compared to a normal population.

Group	Age	Type of meniscus surgery	Number	KOOS Pain	KOOS Symptoms	KOOS ADL	KOOS Sport/Rec	KOOS QOL
Solely meniscus surgery	18-34	APM	50	82.8 ±18.2	76.6 ±19.4	88.3 ±18.6	59.1 ±26.9	62.9 ±25.0
Population*			134	92.1 ± 12.8	88.2 ±13.7	94.8 ±10.9	85.8 ±21.0	84.4 ±19.8
CI of the difference from mean value (p-value)				3.8 – 14.8 (<0.001)	5.7 – 17.5 (<0.001)	1.0 – 12.0 (<0.001)	18.4 -35.0 (<0.001)	13.8 – 29.2 (<0.001)
Solely meniscus surgery	18-34	Meniscus Suture	31	82.0 ±15.3	72.2 ±18.3	91.4 ±10.8	60.0 ±29.5	59.6 ±22.9
Population*			134	92.1 ± 12.8	88.2 ±13.7	94.8 ±10.9	85.8 ±21.0	84.4 ±19.8
CI of the difference from mean value (p-value)				4.3 – 15.9 (<0.001)	9.2 – 22.8 (<0.001)	-0.8 – 7.6 (0.082)	14.8 – 36.8 (<0.001)	16.1 – 33.5 (<0.001)
Concurrent ACLR	18-34	APM	30	81.7 ±18.1	72.1 ±22.2	87.8 ±18.8	61.2 ±27.2	58.0 ±23.7
Population*			134	92.1 ± 12.8	88.2 ±13.7	94.8 ±10.9	85.8 ±21.0	84.4 ±19.8
CI of the difference from the mean value (p-value)				3.6 – 17.2 (<0.001)	7.8 – 24.4 (<0.001)	0.02 – 14.0 (<0.001)	14.2 – 35.0 (<0.001)	17.3 – 35.5 (<0.001)
Concurrent ACLR	18-34	Meniscus suture	39	83.9 ±15.8	76.2 ±19.0	92.7 ±9.9	63.5 ±23.9	59.7 ±22.8
Population*			134	92.1 ± 12.8	88.2 ±13.7	94.8 ±10.9	85.8 ±21.0	84.4 ±19.8
CI of the difference from mean value (p-value)				2.8 – 13.6 (<0.001)	5.6 – 18.4 (<0.001)	-1.5 – 5.7 (0.229)	14.0 – 30.6 (<0.001)	16.8 – 32.6 (<0.001)

Appendix 3: Table for KOOS score in middle-aged participants compared to a normal population.

Group	Age	Type of meniscus surgery	Number	KOOS Pain	KOOS Symptoms	KOOS ADL	KOOS Sport/Rec	KOOS QOL
Solely meniscus surgery	35-54	APM	196	79.1 ±20.8	75.5 ±21.9	85.3 ±19.9	56.4 ±31.7	59.0 ±26.7
Population*			158	88.1 ±18.3	88.0 ±16.7	88.8 ±18.7	77.7 ±28.6	80.6 ±23.7
CI of the difference in mean value				4.9 – 13.0 (<0.001)	8.5 – 16.5 (<0.001)	-0.5 – 7.5 (0.009)	15.0 – 27.6 (<0.001)	16.3 – 26.9 (<0.001)
Solely meniscus surgery	35-54	Meniscus Suture Repair	21	84.0 ±10.5	79.8 ± 16.7	91.5 ±10.5	54.0 ±28.0	50.1 ±22.3
Population*			158	88.1 ±18.3	88.0 ±16.7	88.8 ±18.7	77.7 ±28.6	80.6 ±23.7
CI of the difference in mean value				-1.2 – 9.4 (0.305)	0.6 – 15.8 (0.024)	-8.1 – 2.7 (0.508)	10.9 – 36.5 (<0.001)	20.3 – 40.7 (<0.001)
Concurrent ACLR	35-54	APM	32	85.2 ±14.1	80.7 ±12.0	91.5 ±14.7	61.9 ±27.1	66.7 ±19.5
Population*			158	88.1 ±18.3	88.0 ±16.7	88.8 ±18.7	77.7 ±28.6	80.6 ±23.7
CI of the difference in mean value (p-value)				-2.8 – 8.6 (0.370)	2.4 – 12.2 (0.013)	-8.6 – 3.2 (0.414)	5.4 – 26.2 (0.002)	6.2 – 21.6 (0.001)
Concurrent ACLR	35-54	Meniscus Suture Repair	22	87.8 ±13.3	80.5 ±16.3	93.1 ±10.9	70.0 ±25.9	66.7 ±22.5
Population*			158	88.1 ±18.3	88.0 ±16.7	88.8 ±18.7	77.7 ±28.6	80.6 ±23.7
CI of the difference in mean value (p-value)				-5.9 – 6.5 (0.939)	0.2 – 14.8 (0.035)	-9.7 – 1.1 (0.281)	-4.0 – 19.4 (0.207)	3.8 – 24.0 (0.006)

*Population data from Paradowski et al [22]