

**Table 1. Baseline and clinical characteristics of patients (n = 28) who underwent transtibial pullout repair of a medial meniscus posterior root tear**

<b>Variables</b>	<b>Values</b>
Patients/knees (n)	28
Gender male/female (n)	6/22
Age (years)	63.0 ± 8.6
Height (m)	1.6 ± 0.1
Weight (kg)	66.3 ± 11.6
Body mass index (kg/m <sup>2</sup> )	26.9 ± 3.7
Waiting time (days)	89.5 ± 64.7
<u>Femorotibial angle (°)</u>	<u>176.8 ± 1.5</u>
<u>Mechanical axis (%)</u>	<u>39.4 ± 6.0</u>

Values are presented as mean ± standard deviation.

**Table 2. Comparison between the preoperative and postoperative clinical scores of patients (n = 28) who underwent transtibial pullout repair of a medial meniscus posterior root tear**

	Preoperative value	Postoperative value	P-value
<u>KOOS - Pain</u>	<u>51.6 ± 28.0</u>	<u>83.9 ± 13.7</u>	<u>&lt;0.001</u>
<u>KOOS - Symptoms</u>	<u>65.7 ± 19.9</u>	<u>78.7 ± 16.6</u>	<u>&lt;0.05</u>
<u>KOOS - ADL</u>	<u>65.7 ± 22.0</u>	<u>87.6 ± 10.2</u>	<u>&lt;0.001</u>
<u>KOOS - Sport / Rec</u>	<u>28.7 ± 25.6</u>	<u>55.9 ± 27.7</u>	<u>&lt;0.001</u>
<u>KOOS - QOL</u>	<u>31.5 ± 19.4</u>	<u>57.2 ± 19.9</u>	<u>&lt;0.001</u>
Lysholm score	64.6 ± 11.7	85.9 ± 8.4	<0.001
Tegner activity score	2.0 ± 1.0	3.0 ± 1.0	<0.001
IKDC score	40.4 ± 16.2	65.3 ± 13.7	<0.001
VAS pain	43.7 ± 32.0	9.1 ± 10.6	<0.001

Values are presented as mean ± standard deviation.

KOOS, Knee Injury and Osteoarthritis Outcome Score; ADL, activities of daily living; Sport/Rec, sport and recreation;

QOL, quality of life. IKDC, International Knee Documentation Committee score; VAS pain, visual analog scale pain.

**Table 3. Comparison between the preoperative and postoperative medial meniscus extrusion of patients (n = 28) who underwent transtibial pullout repair of a medial meniscus posterior root tear**

	<u>Preoperative value</u>	<u>Postoperative value</u>	<u>P-value</u>
<u>aMME (mm)</u>	<u>3.85±0.80</u>	<u>4.21±0.81</u>	<u>0.22</u>
<u>rMME (%)</u>	<u>41.32±7.38</u>	<u>45.14±6.59</u>	<u>0.06</u>
<u>MMBW (mm)</u>	<u>9.45±0.89</u>	<u>9.12±1.10</u>	<u>0.11</u>

Values are presented as mean ± standard deviation.

aMME, absolute medial meniscus extrusion; rMME, relative medial meniscus extrusion; MMBW, medial meniscus body width.

**Table 4. Pearson correlation of the clinical variables and 1-y postoperative clinical scores of patients (n = 28) who underwent transtibial pullout repair of a medial meniscus posterior root tear**

		Lysholm	IKDC	VAS pain	KOOS				
					Pain	Symptoms	ADL	Sport/Rec	QOL
<b>Preoperative</b>	Age	0.27	0.49**	-0.30	0.49**	0.39*	0.37	0.44*	0.31
	BMI	-0.40*	-0.64**	0.43*	-0.39*	-0.32	-0.39*	-0.41*	-0.19
	Waiting time	0.29	0.00	-0.08	-0.03	0.05	0.05	0.03	-0.31
	<u>FTA (°)</u>	<u>-0.10</u>	<u>-0.24</u>	<u>0.02</u>	<u>-0.14</u>	<u>0.05</u>	<u>-0.15</u>	<u>0.04</u>	<u>0.03</u>
	<u>MA (%)</u>	<u>0.12</u>	<u>0.31</u>	<u>-0.06</u>	<u>0.21</u>	<u>0.03</u>	<u>0.23</u>	<u>0.01</u>	<u>0.03</u>
	aMME (mm)	0.03	0.21	-0.36	0.43*	0.22	0.16	0.13	0.18
	rMME (%)	0.18	0.21	-0.52*	0.49*	0.31	0.28	0.25	0.25
	MMBW (mm)	-0.27	-0.04	0.36	-0.17	-0.14	-0.22	-0.19	-0.10
<b>Postoperative</b>	aMME (mm)	-0.34	-0.05	0.08	0.00	0.24	-0.18	-0.29	-0.06
	rMME (%)	-0.23	-0.03	-0.53	0.42	-0.04	-0.05	-0.35	0.03
	MMBW (mm)	-0.14	-0.08	0.24	-0.27	0.23	-0.21	-0.09	-0.20

IKDC score, International Knee Documentation Committee score; VAS pain, visual analog scale pain; BMI, body mass index; Time, time elapsed between injury and surgery;

FTA,; femorotibial angle; MA, mechanical axis; aMME, absolute medial meniscus extrusion; rMME, relative MME; MMBW, medial meniscus body width. \*P < 0.05; \*\*P

< 0.01.

**Table 5. Multivariate linear regression analysis for different variables of patients (n = 28) who underwent transtibial pullout repair of a medial meniscus posterior root tear.**

Dependent variables	Variables	T-value	Standard error	P-value	R <sup>2</sup>	P-value
1-y IKDC score	Age	1.53	0.29	0.14	0.29	0.02*
	BMI	-2.37	0.81	0.03*		
	Waiting time	-0.09	0.04	0.93		
1-y Lysholm score	Age	0.90	0.27	0.38	0.13	0.12
	BMI	-1.37	0.77	0.19		
	Waiting time	1.40	0.04	0.18		
<u>1-y KOOS pain</u>	<u>Age</u>	<u>2.03</u>	<u>0.29</u>	<u>0.06</u>	<u>0.18</u>	<u>0.07</u>
	<u>BMI</u>	<u>-1.03</u>	<u>0.83</u>	<u>0.32</u>		
	<u>Waiting time</u>	<u>0.06</u>	<u>0.04</u>	<u>0.96</u>		
<u>1-y KOOS symptoms</u>	<u>Age</u>	<u>1.65</u>	<u>0.35</u>	<u>0.12</u>	<u>0.13</u>	<u>0.12</u>
	<u>BMI</u>	<u>-1.13</u>	<u>0.97</u>	<u>0.27</u>		
	<u>Waiting time</u>	<u>0.37</u>	<u>0.05</u>	<u>0.72</u>		
<u>1-y KOOS ADL</u>	<u>Age</u>	<u>1.39</u>	<u>0.22</u>	<u>0.18</u>	<u>0.01</u>	<u>0.37</u>
	<u>BMI</u>	<u>-0.52</u>	<u>0.62</u>	<u>0.61</u>		
	<u>Waiting time</u>	<u>0.43</u>	<u>0.03</u>	<u>0.68</u>		
<u>1-y KOOS Sport and Rec</u>	<u>Age</u>	<u>1.72</u>	<u>0.59</u>	<u>0.10</u>	<u>0.15</u>	<u>0.10</u>
	<u>BMI</u>	<u>-1.21</u>	<u>1.67</u>	<u>0.24</u>		
	<u>Waiting time</u>	<u>0.28</u>	<u>0.08</u>	<u>0.78</u>		

<u>1-y KOOS QOL</u>	<u>Age</u>	<u>0.96</u>	<u>0.47</u>	<u>0.35</u>	<u>0.05</u>	<u>0.28</u>
	<u>BMI</u>	<u>-0.47</u>	<u>1.34</u>	<u>0.64</u>		
	<u>Waiting time</u>	<u>-1.37</u>	<u>0.06</u>	<u>0.19</u>		

---

R<sup>2</sup>, adjusted R-squared; KOOS, Knee Injury and Osteoarthritis Outcome Score; ADL, activities of daily living; Sport/Rec, sport and recreation; QOL, quality of life; IKDC score, International Knee Documentation Committee score; BMI, body mass index; Time, time elapsed between injury and surgery.