		Distal		
		Femoral		
	Distal	Extension		
	Femoral	Osteotomy	Patellar	
	Extension	and Patellar	Tendon	
	Osteotomy	Tendon	Advancement	
	Only	Advancement	Only	All Patients
Kinematics	100%	100%	100%	100%
Gillette Gait Index	100%	100%	100%	100%
Normal net O ₂ consumption (% of control)	88%	76%	71%	78%
Walking level (FAQ)	88%	85%	92%	88%
Pain (FAQ)	81%	79%	88%	83%
Pain/comfort (PODCI)	56%	64%	79%	66%
Transfers and basic mobility (PODCI)	56%	64%	79%	66%
Sports and physical function (PODCI)	56%	64%	79%	66%
Koshino index	56%	91%	92%	80%
Strength (gluteus maximus)	94%	82%	75%	80%
Strength (quadriceps)	100%	91%	82%	91%
Strength (plantar flexors)	88%	82%	79%	83%
Extensor lag	64%	75%	79%	73%
All	79%	81%	84%	81%

TABLE E-1 reicentage of raneu Data (rieoperative and rostoperative) Available for Analysis in Each frequinent Oroug	TABLE E-1 Percentage of Paired Data	Preoperative and Postor	perative) Available for Ana	lysis in Each Treatment Group
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TABLE E-2 Osseous, Soft-Tissue, and Tone-Reduction Surgery Prior to the Index Operation*

Percentage			
	Distal Femoral		
	Extension	Patellar	
Distal Femoral	Osteotomy and	Tendon	
Extension	Patellar Tendon	Advancement	
Osteotomy Only	Advancement	Only (N =	Total No. of
(N = 16)	(N = 33)	24)	Procedures
9	40	51	68
6	47	47	36
5	62	33	60
7	35	58	43
0	67	33	9
16	55	29	31
33	30	37	30
17	45	38	73
17	58	25	24
19	46	35	48
13	50	37	98
11	43	46	70
8	44	48	25
57	29	14	7
	Percentage Distal Femoral Extension Osteotomy Only (N = 16) 9 6 5 7 0 16 33 17 17 19 13 11 8 8 57	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Percentage of Total No. of ProceduresDistal Femoral ExtensionDistal Femoral ExtensionPatellar TendonDistal Femoral ExtensionPatellar Tendon Advancement $(N = 16)$ Patellar Tendon Advancement $(N = 33)$ Patellar Tendon9405166474756233735580673316552933303717453817582519463513503711434684448572914

*Not all surgical procedures were performed at our institution.

				Distal Femoral Extension					
	Distal I	Femoral Exter	nsion	Osteotomy	and Patella	r Tendon	Patellar	Tendon Adva	incement
	Os	teotomy Only	7	A	dvancement			Only	
			Р			Р			
	Preop.*	Postop.*	Value	Preop.*	Postop.*	Value	Preop.*	Postop.*	P Value
Pelvic tilt	13 ± 10	16 ± 11	0.100	15 ± 9	21 ± 7	< 0.001	16 ± 6	22 ± 8	< 0.001
Pelvic tilt range of	10 ± 3	9 ± 3	0.102	8 ± 3	8 ± 3	0.905	8 ± 3	8 ± 3	0.583
motion									
Hip extension in	12 ± 16	11 ± 15	0.815	14 ± 14	9 ± 11	0.054	9 ± 9	11 ± 10	0.215
terminal stance									

TABLE E-3 Pelvis and Hip Measures

*The values are given, in degrees, as the mean and standard deviation. Comparable kinematic graphs are found in Figure 5.

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			Distal Femoral			
	Distal I	Femoral	Extension Osteotomy and Patellar Tendon			
	Extension	Osteotomy			Patellar Tendon	
	Only		Advancement		Advancement Only	
	Preop.†	Postop.†	Preop.†	Postop.†	Preop.†	Postop.†
Up/down steps (railing)	13/13	12/13	23/25	23/25	22/22	21/22
Kick object with right foot	10/13	11/13	23/25	20/25	19/22	21/22
Kick object with left foot	11/13	11/13	20/25	21/25	19/22	21/22
Step over object (right foot first)	8/13	9/13	24/25	19/25	19/22	20/22
Ride 3-wheel tricycle	10/13	10/13	18/25	16/25	21/22	20/22
Step up/down curb	11/13	12/13	18/25	16/25	14/22	20/22
Step over object (left foot first)	8/13	9/13	22/25	19/25	17/22	19/22
On/off bus	7/13	8/13	17/25	16/25	15/22	18/22
Total	78/104	82/104	165/200	150/200	146/176	160/176

*Eight of the twenty-two advanced functional skills from the Gillette Functional Assessment Questionnaire⁴¹ that require knee range of motion or strength. Skills are listed from easiest to most difficult. Only complete paired data were used. †The number of individuals able to perform each skill/the total number of patients in the treatment group for which the data were available.