

TABLE E-1 Patient Data Regarding Synthetic Mesh Reconstruction of Patellar Tendon Disruption Following Total Knee Arthroplasty*

Case	Side	Age (yr) , Sex	Body-Mass Index (kg/m ²)	Medical History	Prior Procedures	Concomitant Procedures	Tibial Fixation Technique	Complications	Preoperative Data			Postoperative Data			Duration of Follow-up (mo)
									Knee Society Score		Knee Motion† (deg)	Knee Society Score		Knee Motion (deg)	
									Pain	Function		Pain	Function		
1	L	55, F	32.4	None	Revision total knee arthroplasty for arthrofibrosis	None	Intramedullary	None	53	0	45 to 115	93	60	0 to 115	12
2	R	61, F	49.7	DM	Primary total knee arthroplasty, failed APTR	Poly exchange (upsized)	Intramedullary	Graft rupture requiring revision synthetic mesh reconstruction	54	45	50 to 120	77	55	40 to 110	18
3	L	59, M	36.9	DM	Primary total knee arthroplasty, failed APTR, explant with spacer for infection	Reimplant	Intramedullary	None	39	50	40 to 120	88	70	2 to 120	15
4	R	67, F	35.1	DM	Primary total knee arthroplasty, failed APTR	Revised for component malrotation	Intramedullary	Failure of reconstruction requiring revision synthetic mesh reconstruction	49	35	20 to 120	34	35	30 to 120	16
5	R	77, F	37.4	None	Two stage revision total knee arthroplasty for infection, failed PT repair, failed APTR	None	Intramedullary	30° extensor lag treated nonoperatively	29	0	30 to 110	50	0	30 to 110	30
6	R	74, F	44.1	None	Revision total knee arthroplasty for aseptic loosening with primary PT repair	Revision for instability	Intramedullary	None	28	30	N/A‡ to 100	53	45	10 to 90	51
7	L	59, M	33.0	None	Primary total knee arthroplasty, quadriceps palsy, failed APTR	Revision for component malposition	Intramedullary	None	52	60	60 to 110	92	80	10 to 110	30
8	L	53, M	42.4	DM	Infected HTO, primary total knee arthroplasty, failed ORIF patella fracture	None	Extramedullary	Postoperative infection treated with arthrodesis	39	5	25 to 95	N/A§	N/A§	N/A§	24
9	R	56, M	28.6	None	Revision total knee arthroplasty for aseptic loosening	None	Extramedullary	None	14	10	25 to 95	73	60	0 to 90	11
10	R	73, M	39.8	CAD	Liner exchange for wear, complete revision total knee arthroplasty, LRR/VMO advancement	Femoral revision for loosening	Extramedullary	None	34	5	45 to 120	88	50	0 to 95	90

11	R	37, F	22.8	Non e	Two-stage revision total knee arthroplasty for infection	None	Extramed ullary	None	3	0	40 to 40	91	100	3 to 100	73
12	R	64, F	43.1	Non e	Failed ORIF tubercle (osteotomy exposure), resection/sp acer for infection	Reimplant	Extramed ullary	None	30	20	23 to 75	96	45	0 to 110	118
13	L	42, F	26.4	RA	Primary total knee arthroplasty	Revision for malposition	Extramed ullary	None	48	0	30 to 120	66	0	0 to 110	60

*L = left; R = right; F = female; M = male; DM = diabetes mellitus; APTR = allograft patellar tendon reconstruction; PT = patellar tendon; HTO = high tibial osteotomy; ORIF = open reduction and internal fixation; CAD = coronary artery disease; LRR/VMO = lateral retinacular release/vastus medialis obliquus. †The first number listed represents the extensor lag, calculated as the difference between the maximum passive extension and the maximum active extension against gravity of the knee. ‡N/A = not available; the amount of preoperative extension lag was not documented. §N/A = not available; the patient developed an early postoperative infection that led to arthrodesis.