

TABLE E-1 Clinical Data and Outcomes

Case	Age	Sex	Dx	Mechanism	Tear	Treatment	Complications	Outcome
Operative								
1	77	F	OA	Kneeling	Complete	Late Suture, rev TKA	Recurvatum, instability	Late recurvatum requiring brace. Planning revision to rotating hinge
2	73	M	OA	During PT	Complete	Early Suture	Infected TKA	Infected TKA. Resection arthroplasty. Died from septic complications
3	40	F	RA	Standing	Complete	Late Suture	Infected TKA, re-rupture	TKA resected. Reimplant, mesh augmented quad repair. Walks with walker
4	70	F	OA	Fall	Complete	Late Suture, Marlex mesh	Re-rupture	Re-ruptured, repaired again with mesh. Ambulating. Non-compliant
5	69	M	OA	Fall	Complete	Late Suture	Re-rupture	Second repair augmented with fascia. Ambulating. Quad weakness
6	69	F	PT	Fall	Complete	Late Suture	Re-rupture	Second repair augmented with fascia; failed. Now in locking knee brace
7	71	F	RA	Spontaneous	Complete	Late Suture, patellectomy	None	Good strength, ambulating, walking stairs
8	73	F	OA	Fall	Complete	Early Suture	None	Did well. Good strength, ambulating
9	87	M	OA	Fall	Complete	Early Suture	None	Ambulating. Full strength
10	86	F	OA	Ambulation	Complete	Late Suture, Marlex mesh	None	Good strength, ambulating, progressing with PT
11	72	M	OA	Fall	Partial	Early Suture	Re-rupture	Re-rupture. Refused further surgery
12	75	F	RA	Fall	Partial	Early Suture	Infected TKA	Reimplant failed; above knee amputation
13	68	F	OA	Weight-bearing	Partial	Late Suture, imbrication	Intraop femoral condyle fx	Arthroplasty resected and knee fused for late pain, symptoms unrelieved
14	78	F	OA	During PT	Partial	Late Suture, LR, poly exchange	None	Substantial flexion contracture, valgus malalignment, refused further surgery
15	60	F	OA	Fall	Partial	Late Suture, rev TKA	Popliteal artery transection	Late subluxations, subsequent quad realignment. Ambulating, full strength
16	45	F	RA	Ambulation	Partial	Early Suture	Marked anteroposterior knee instability	TKA revision after repair. Good function/strength after revision
17	52	F	RA	Standing	Partial	Early Suture	None	Excellent results at 20 yrs. Unable to walk secondary to femur fracture
18	65	F	RA	Fall	Partial	Early Suture	None	Full strength, excellent function
19	71	F	OA	Fall	Partial	Early Suture	None	Ambulating. Quad 4/5
20	69	M	OA	Fall	Partial	Early Suture, LR, realignment	None	Full strength, excellent function
21	68	F	OA	Ambulation	Partial	Suture	None	Full strength, excellent function
22	63	F	OA	Spontaneous	Partial	Late Suture, patellar revision	None	Ambulating. Quad 4/5
23	70	M	OA	Riding horse	Partial	Late Suture, LR, patellar revision	None	Full strength, excellent function
24	69	F	OA	Fall	Partial	Late Suture	None	Full strength, excellent function
25	73	M	OA	Climbing stairs	Partial	Early Suture	None	Full strength, excellent function
26	74	F	OA	Weight-bearing	Partial	Late Suture, LR, scar removal	None	Full strength, late pain improving with therapy
Nonoperative								
27	38	F	RA	Standing	Complete	None	Missed diagnosis	Poor skin; major surgical risk; drop-lock knee brace
28	83	F	OA	Fall	Partial	Immobilizer, PT	None	Full strength
29	82	F	OA	Fall	Partial	Cast	None	Nonambulator, full care NH
30	68	M	OA	Lifting	Partial	Crutches	None	Palpable defect. Ambulating
31	85	M	OA	During transfer	Partial	Aggressive PT	None	MI after TKA. Quad 4/5. Low demand. No pain
32	80	F	OA	Climbing stairs	Partial	Cast	None	Full strength
33	71	M	OA	Fall	Partial	Immobilizer, PT	None	Full strength
34	80	M	OA	Fall	Partial	Cane	Missed diagnosis	Palpable defect, ambulating

TKA = total knee arthroplasty, OA = osteoarthritis, RA = rheumatoid arthritis, LR = lateral release, and PT = physical therapy. NH = nursing home, and MI = myocardial infarction.