

TABLE E-1 Demographic, Oncologic, and Surgical Data for Each Patient

Case	Age (yr)	Affected Bone	Primary Tumor	Allograft Complication	Interval Between Allograft Placement and Fibular Salvage (Mos)	Postoperative Complications	Time to Osseous Union (Mos)	Functional Outcome
1	32	Femur	Chondrosarcoma	Distal nonunion, broken plate	11	None	4	Good
2	28	Femur	Adamantinoma	Proximal nonunion	9	None	9	Excellent
3	44	Femur	Alveolar sarcoma (metastasis)	Distal nonunion	18	Seroma	5	Fair
4	47	Femur	Chondrosarcoma	Proximal nonunion	15	Deep venous thrombosis reconstructed leg; FHL contracture	12	Good
5	7	Femur	Ewing sarcoma	Allograft shaft fracture	21	Persistent distal & proximal nonunions requiring ICBG	21	Excellent
6	16	Femur	Osteosarcoma	Proximal and distal nonunions	8	None	5	Excellent
7	19	Femur	Osteosarcoma	Infected allograft	24	Persistent distal & proximal nonunions requiring ICBG	32	Good
8	63	Femur	Lymphoma	Infected allograft	120	None	4	Fair
9	16	Femur	Osteosarcoma	Distal nonunion	81	Allograft infection	6	Fail
10	54	Femur	Osteosarcoma	Proximal nonunion	31	None	4	Fair
11	40	Femur	Giant cell tumor	Distal valgus deformity likely due to allograft-host junction fracture	276	None	7	Good
12	13	Femur	Osteosarcoma	Proximal and distal nonunions	38	None	9	Good
13	29	Femur	Osteosarcoma	Infected allograft	7	Allograft infection; superficial femoral artery thrombosis	7	Fail
14	17	Femur	Ewing sarcoma	Proximal nonunion	16	None	6	Good
15	25	Femur	Osteosarcoma	Allograft shaft fracture	95	Allograft infection	6	Fail
16	31	Femur	Parosteal osteosarcoma	Distal nonunion	5	None	12	Good
17	26	Femur	Osteosarcoma	Proximal nonunion	36	None	9	Good
18	10	Femur	Osteosarcoma	Allograft shaft fracture, infection of allograft	8	None	8	Good
19	14	Humerus	Osteosarcoma	Proximal nonunion	18	Global brachial plexus palsy	7	Excellent
20	14	Humerus	Osteosarcoma	Proximal nonunion	61	None	4	Excellent
21	40	Humerus	Hemangioendothelioma	Proximal nonunion	44	None	6	Excellent
22	34	Humerus	Chondrosarcoma	Proximal fracture nonunion	102	None	6	Good
23	24	Humerus	Osteosarcoma	Distal nonunion	22	Global brachial plexus palsy; soft tissue recurrence	4	Fail
24	14	Humerus	Osteosarcoma	Infected allograft	26	Prominent hardware	7	Good
25	59	Humerus	Chondrosarcoma	Proximal nonunion	12	None	6	Good

26	17	Tibia	Osteosarcoma	Proximal nonunion	6	Degenerative arthritis of knee	5	Fail
27	21	Tibia	Adamantinoma	Proximal nonunion	9	None	6	Good
28	17	Tibia	Adamantinoma	Proximal nonunion	8	Distal allograft fracture followed by allograft infection	5	Fail
29	19	Tibia	Osteosarcoma	Proximal nonunion	18	Transient peroneal nerve palsy	6	Good
30	23	Tibia	Chondrosarcoma	Proximal nonunion	10	None	9	Excellent
31	39	Tibia	Chondrosarcoma	Proximal nonunion, infection of allograft	6	None	5	Good
32	34	Tibia	Giant cell tumor	Proximal nonunion	8	Allograft infection	7	Fail
33	32	Tibia	Adamantinoma	Proximal nonunion	6	Infected hardware	6	Excellent

FHL = flexor hallucis longus, and ICBG = iliac crest bone graft.