

TABLE E-1 Data on the Patients

Case	Sex	Age	Weight (kg)	Diagnosis	Enneking Stage	Side	Follow-up (mo)	Current Status	Previous Surgery	Chemotherapy	POD Chemo therapy	Incision	Anterior Tibial Vessels Ligated	Flap	STSG	Bone Graft	Plate	Tumor Size (mm)	Resection Length	Fibula Resected	Wound Complications	Peroneal Nerve Palsy	Further Surgery
1	M	23	79	OGS	IIB	R	37	NED	N	Y	31	Midline	Yes	MG	Y	Auto+DBM	N	155	190	Y	N	N	WLE recurrence
2	M	73	84	CS	IIB	R	30	NED	Y	N	None	Midline	Yes	MG,L G,S	Y	Auto+DBM	N	177	205	Y	N	N	N
3	M	71	84	MFH	IIB	R	48	NED	Open biopsy	Y	32	Median	No	MG	Y	Auto+DBM	N	74	85	N	N	Y	N
4	M	60	82	OGS	IIB	R	49	NED	Open biopsy	Y	33	Median	No	LG	Y	Auto	N	94	125	Y	N	Y-resolved	N
5	M	12	56	OGS	IIB	L	36	DOD	N	Y	32	Midline	No	MG	Y	Auto+DBM	Y	120	130	Y	Deep acute infection	N	Débridement
6	M	21	74	OGS	IIB	R	51	NED	N	Y	35	Lateral	Yes	MG	Y	Auto+DBM	N	86	120	N	N	N	N
7	F	25	135	GCT	Benign stage 3	R	59	NED	Y	N	None	Lateral	No	MG	Y	Auto+allo+DBM	N	70	75	N	N	Y-resolved	N
8	M	31	103	OGS	IIB	L	54	DOD	N	Y	37	Midline	No	MG	Y	Auto+DBM	N	109	140	N	N	N	N
9	M	42	128	SS	III	L	33	DOD	Y	Y	None	Midline	No	Rec,M G	Y	Auto+DBM	N	245	270	N	Superficial	N	N
10	M	22	84	GCT	Benign stage 3	L	31	NED	N	N	None	Midline	No	MG	Y	Auto+allo	N	78	95	N	N	N	N
11	M	17	66	OGS	IIA	L	54	NED	N	Y	86	Lateral	Yes	MG	Y	Auto+DBM	N	160	170	N	N	N	N
12	F	17	57	MFH	IIB	L	110	NED	Open biopsy	Y	32	Lateral	Yes	MG	Y	Auto+DBM	N	50	90	Y	Flap failure	N	Flap revision; MUA

OGS = osteogenic sarcoma, CS = chondrosarcoma, MFH = malignant fibrous histiocytoma of bone, STS = soft-tissue sarcoma, SS =small cell variant of synovial sarcoma, GCT = giant-cell tumor of bone, WBAT = weight-bearing as tolerated ambulation, POD = postoperative day for start of postoperative chemotherapy, STSG = split-thickness skin graft, NED = no evidence of disease, DOD = died of disease, MG = medial gastrocnemius, LG = lateral gastrocnemius, auto = autograft, allo = allograft, DBM = demineralized bone matrix, S = soleus, Rec = rectus abdominis (free), WLE = wide local excision, l = local, d = distant, and MUA = manipulation under anesthesia.

TABLE E-1 (continued)

Case	Recur rence	LR	Time to LR (mo)	Final Extensi on (deg)	Final Flexion (deg)	Assistive Device	No. of Cortices at Most Recent Exam	Callus Bridging				Mos. to Bridging Callus (2 Cortices)	Mos. to Weight- Bearing at Least 50%	Current Weight- Bearing	Musculoskeletal Tumor Society Scale Scores										Implant
								1 vie ws	2 views	4 views	Comple te Union				Pain	Walkin g	Funct ion	Gait	Supp orts	Emotio nal Accept ance	Total Raw	Total (%)			
1	L/D	Y	14	10	110	N	4	9	9	18	Y	9	8	WBAT	5	3	2	2	1	5	18	60	Stryker		
2	N	N	30	5	100	N	4	7	10	13	Y	10	7	WBAT	5	4	3	4	2	4	22	73	Biomet		
3	N	N	41	15	120	Cane	4	9	9	12	Y	9	7	WBAT	5	4	4	3	5	5	26	87	Biomet		
4	N	N	49	0	110	Cane	3	6	9	48	N	9	12	WBAT	5	5	3	3	2	5	23	77	Stryker		
5	D	N	31	0	100	N	4	12	22	28	Y	22	24	WBAT	3	4	3	3	5	4	22	73	Stryker		
6	N	N	47	0	110	N	4	4	4	17	Y	4	3	WBAT	5	4	3	4	5	3	24	80	Stryker		
7	N	N	47	0	110	Occ. use of cane	4	9	11	20	Y	11	6	WBAT	5	3	4	4	5	5	26	87	Biomet		
8	L/D	Y	37	0	60	N	4	3	5	19	Y	5	3	WBAT	5	5	5	4	5	5	29	97	Biomet		
9	D	N	34	0	100	Occ. use of cane	2	12	15	34	N	15	12	WBAT	5	3	3	4	2	4	21	70	Stryker		
10	D	N	21	0	100	N	3	11	11	24	N	11	3	WBAT	4	4	3	4	5	4	24	80	Biomet		
11	N	N	57	0	110	N	4	4	4	16	Y	4	12	WBAT	5	5	5	4	5	5	29	97	Stryker		
12	N	N	88	0	120	N	4	5		20	Y	11	10	WBAT	5	5	4	4	5	5	28	93	Stryker		

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