

TABLE E-1 Patient Data

Case	Gender/ Age at diagnosis (years)	Type of tumor	Tumor grade	Resection zone*	THA	Op. time (hrs+mins)	Blood transfused (mL)	Margins	Chemotherapy	Complications	Tumor condition	Walking	MSTS score (%)	Status at latest FU
Resection zone including zone II														
Primary sarcoma														
1	M/16	Ewing	IIb	I+II	no	na	na	wide	yes	none	Met	without support	83	died at 19 mo
2	M/8	Ewing	IIb	I+II	no	8+0	1760	wide	yes	hip subluxation	LR (62 mo)	without support	100	died at 75 mo
4	M/16	OSS	III	I+II	no	10+30	1560	wide	yes	none	Met	occasionally 1 crutch	50	died at 19 mo
5	M/13	OSS	IIb	I+II+IV	no	10+0	7300	wide	yes	none	LR (31 mo)	without support	100	died at 44 mo
7	F/62	dedif CHS	IIb	I+II+III	yes	16+30	4100	marg	no	peroneal palsy	Met	1 crutch	70	died at 30 mo
8	M/27	OSS	IIb	II+III	yes	8+30	3000	marg	yes	none	LR (13 mo)	1 crutch	80	died at 24 mo
9	M/16	Ewing	III	II	yes	9+0	1400	wide	yes	peroneal palsy	Met	without support	93	died at 36 mo
11	M/13	Ewing	IIb	II+III	yes	10+30	4000	marg	yes	peroneal palsy	Met	without support	90	died at 36 mo
14a	M/34	CHS	Ib	I+II	yes	10+30	9500	wide	no	nonunion /explantation	LR (21 mo)	2 crutches	53	na
14b	M/34	CHS	Ib	I+II	yes	14+15	11,300	wide	yes	nonunion /amputation	LR (19 mo)	2 crutches	67	NED at 74 mo
15	F/60	CHS	Ib	II	yes	9+0	2500	wide	no	limited skin necrosis	NED	occasionally 1 crutch	83	NED, died at 24 mo
16	F/76	CHS	Ib	II+III	yes	7+45	1500	wide	no	fractured femur under stem at 5 mo	NED	occasionally 1 crutch	73	NED at 63 mo
19	F/19	Ewing	IIb	I+II+III	yes	15+0	7200	wide	yes	femoral thrombosis /sciatic and femoral palsy	Met	non- ambulatory	27	died at 13 mo
20	M/59	dedif CHS	IIb	I+II	yes	12+0	4700	wide	no	Peroneal palsy /left surgicla compress/prosthesis dislocation	LR (6 mo)	non- ambulatory	40	died at 14 mo
Resection zone including zone II														
Metastasis														
3	M/24	Met	III	I+II	no	10+45	6000	wide	yes	hip subluxation/peroneal palsy	NED	without support	57	NED at 137 mo
6	F/52	Met	III	II	yes	na	na	wide	yes	none	Met	occasionally 1 crutch	80	died at 24 mo
10	F/73	Met	III	II+III	yes	10+0	8400	wide	no	prothesis dislocation at 1 mo	NED	non-ambulatory	30	NED, died at 12 mo
13	M/65	Met	III	I+II	yes	4+30	5000	marg	no	fatal pulmonary embolism at 1 mo	na	non-ambulatory	na	na
17a	F/49	Met	III	II	yes	9+0	2780	wide	no	nonunion	NED	2 crutches	53	na
17b	F/49	Met	III	II	yes	10+30	1000	wide	no	nonunion/deep infection/explantation/saddle	NED	2 crutches	63	NED at 52 mo
Resection zone excluding zone II														
Primary sarcoma														
12	F/25	OSS	IIb	I+IV+L5	no	14+0	3600	marg	yes	skin necrosis /nonunion	NED	without support	80	NED at 134 mo
18	M/16	Ewing	IIb	I (nondisrupted)	no	7+0	2020	wide	yes	none	NED	without support	100	NED at 46 mo
21	M/12	Ewing	III	I	no	7+15	2900	wide	yes	none	NED	without support	97	NED at 29 mo
22	M/51	OSS	IIb	I+IV	no	13+0	5900	intralesion	yes	wound infection	LR (9 mo)	2 crutches	77	died at 24 mo
23	F/8	Ewing	IIb	I (nondisrupted)	no	9+0	1400	wide	yes	none	NED	without support	97	NED at 24 mo
24	M/19	Ewing	III	I (nondisrupted)	no	8+45	5800	marg	yes	deep abcess at 2 mo	LR (9 mo)	occasionally 1 crutch	70	died at 24 mo

*According to system of Enneking and Dunham⁵. THA: total hip arthroplasty. FU: follow-up. na: not applicable. LR: local recurrence. NED: no evidence of disease. OSS: osteosarcoma. CHS: chondrosarcoma. marg: marginal. Met: metastasis.