

Table i. Comparison of the patient characteristics by localization.

Parameters	Localization		p-value
	Distal femur (n = 28)	Proximal tibia (n = 16)	
Mean age, yrs (SD)	31.5 (19.7)	27.3 (19.5)	0.420*
Sex, n			0.525†
Male	18	8	
Female	10	8	
Mean height, cm (SD)	161.3 (11.7)	163.8 (6.6)	0.518*
Mean body weight, kg (SD)	59.0 (13.6)	55.9 (11.4)	0.116‡
Mean BMI, kg/m ² (SD)	22.5 (4.3)	20.7 (3.1)	0.143*
Metastasis, n			0.614§
Yes	2	2	
No	26	14	
Localization, n			1.000§
Bone	26	15	
Soft-tissue	2	1	
Mean resected bone length, cm (SD)	14.5 (3.0)	14.3 (3.4)	0.902*
Chemotherapy, n			1.000§
Yes	19	11	
No	9	5	
Mean follow-up, yrs (SD)	10.1 (5.9)	8.8 (7.0)	0.479*
Recurrence, n			0.364§
Yes	0	1	
No	28	15	
Additional surgeries, n			0.186§
Yes	12	3	
No	16	13	
Mean leg length discrepancy, mm (SD)	12.0 (26.2)	6.8 (6.6)	0.380*
Mean TESS (SD)	76.3 (20.3)	72.2 (24.3)	0.558*
Mean COMMON-LE (SD)	72.8 (21.6)	71.2 (20.3)	0.554*

*Mann-Whitney U test.

†Chi-squared test.

‡Independent-samples *t*-test.

§Fisher's exact test.

COMMON-LE, Comprehensive Outcome Measure for Musculoskeletal Oncology Lower Extremity; SD, standard deviation; TESS, Toronto Extremity Salvage Score.

Table ii. Comparison of the patient characteristics by additional surgeries.

Parameters	Additional surgeries		p-value
	Yes (n = 15)	No (n = 29)	
Mean age, yrs (SD)	26.9 (20.1)	31.5 (19.4)	0.215*
Sex, n			0.208†
Male	11	15	
Female	4	14	
Mean height, cm (SD)	164.4 (5.8)	161.1 (11.7)	0.275*
Mean body weight, kg (SD)	61.3 (10.0)	56.1 (13.9)	0.194‡
Mean BMI, kg/m ² (SD)	22.7 (3.4)	21.4 (4.3)	0.202*
Metastasis, n			1.000†
Yes	1	3	
No	14	26	
Localization, n			
DF, PT	12, 3	16, 13	0.186†
Bone, soft-tissue	13, 2	28, 1	0.264†
Mean resected bone length, cm (SD)	15.9 (3.6)	13.6 (2.6)	0.030*
Chemotherapy, n			1.000†
Yes	10	20	
No	5	9	
Mean follow-up, yrs (SD)	13.3 (6.6)	7.8 (5.3)	0.012*
Recurrence, n			0.341†
Yes	1	0	
No	14	29	
Mean leg length discrepancy, mm (SD)	7.4 (5.6)	11.5 (26.0)	0.814*
Mean TESS (SD)	81.2 (19.8)	71.5 (22.2)	0.134*
Mean COMMON-LE (SD)	76.3 (24.0)	70.4 (19.5)	0.188*

*Mann-Whitney U test.

†Fisher's exact test.

‡Independent-samples t-test.

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Table iii. Comparison of the patient characteristics by chemotherapy.

Parameters	Chemotherapy		p-value
	Yes (n = 30)	No (n = 14)	
Mean age, yrs (SD)	27.1 (18.3)	36.0 (21.4)	0.162*
Sex, n			0.008†
Male	22	4	
Female	8	10	
Mean height, cm (SD)	162.9 (11.4)	160.7 (6.8)	0.251*
Mean body weight, kg (SD)	56.4 (11.9)	61.0 (14.7)	0.623‡
Mean BMI, kg/m ² (SD)	21.0 (3.3)	23.5 (4.9)	0.227*
Metastasis, n			0.290†
Yes	4	0	
No	26	14	
Localization, n			
DF, PT	19, 11	9, 5	1.000†
Bone, soft-tissue	28, 2	13, 1	1.000†
Mean resected bone length, cm (SD)	14.5 (3.0)	14.1 (3.6)	0.200*
Mean follow-up, yrs (SD)	10.2 (6.3)	8.6 (6.2)	0.378*
Recurrence, n			0.318†
Yes	0	1	
No	30	13	

Additional surgeries, n			1.000†
Yes	10	5	
No	20	9	
Mean leg length discrepancy, mm (SD)	11.3 (25.7)	7.4 (4.3)	0.435*
Mean TESS (SD)	74.4 (23.0)	75.7 (19.3)	0.930*
Mean COMMON-LE (SD)	71.3 (21.7)	74.6 (19.5)	0.626*

*Mann-Whitney U test.

†Fisher's exact test.

‡Independent-samples *t*-test.

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Table iv. Comparison of the patient characteristics by follow-up period.

Parameters	Follow-up		p-value
	10 years ≥ (n = 18)	10 years < (n = 26)	
Mean age, yrs (SD)	25.6 (16.4)	32.9 (21.2)	0.251*
Sex, n			0.061†
Male	14	12	
Female	4	14	
Mean height, cm (SD)	162.1 (11.7)	162.3 (9.1)	0.459*
Mean body weight, kg (SD)	58.6 (15.2)	57.3 (11.2)	0.720‡
Mean BMI, kg/m ² (SD)	21.9 (4.2)	21.7 (3.9)	0.756*
Metastasis, n			0.133†
Yes	0	4	
No	18	22	
Localization, n			
DF, PT	11, 7	17, 9	1.000§
Bone, ST	17, 1	24, 2	1.000†
Mean resected bone length, cm (SD)	15.1 (3.2)	14.0 (3.1)	0.239*
Mean follow-up, yrs (SD)	16.0 (3.7)	5.3 (2.9)	< 0.001*
Recurrence, n			1.000†
Yes	0	1	
No	18	25	
Additional surgeries, n			0.023†
Yes	10	5	
No	8	21	
Mean leg length discrepancy, mm (SD)	15.1 (32.7)	6.6 (4.5)	0.811*
Mean TESS (SD)	78.6 (26.3)	72.1 (17.9)	0.344*
Mean COMMON-LE (SD)	75.5 (25.5)	70.1 (17.6)	0.429*

*Mann-Whitney U test.

†Fisher's exact test.

‡Independent-samples *t*-test.

§Chi-squared test.

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