

Is There Any Role of Postoperative Infection on the Survival of the Musculoskeletal Tumor Patients?Nevzat Dabak¹, Ferhat Say², Sina Coşkun³, Hasan Göçer²

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Background: Different studies reported that infection effects on survival of tumor patients.

Questions/Purposes: We aimed to evaluate postoperative surgical site infection effects on local recurrence, metastasis and survival of the patients diagnosed with malign bone or soft tissue tumor.

Patients and Methods: This retrospective study includes 255 patients who were diagnosed malign bone or soft tissue tumor and operated between January 2006-April 2015. Metastatic bone tumor patients (n:62) were excluded. Patients (n:15) who have surgical site infection during postoperative one year were compared with non-infected patients (n:178).

Results: At median follow-up of 8 years one patient (6%) was died in the infection group. Local recurrence was determined in three of patients (20%). 44 patients were died in the non-infected group. Local recurrence was determined in 42 of patients (23%) (15 bone, 27 soft tissue). Five-year survival rate was 94% in the infection group and 75% in the non-infected group (table 1).

Conclusion: Surgical site infection can increase survival of the musculoskeletal tumor patients. However, further studies are required for a more clear result.

Table 1

	Infected (n:15)	Non-infected (n:178)
Age	26	39
Gender (Male/Female)	6/9	81/97
Subtype		
Osteosarcoma	8	21
Others	7	157
Location		
Distal femur	10	116
Proksimal tibia	3	12
Others	2	50
Local recurrence		
Yes	3	68
No	12	110
Metastasis		
Yes	0	0
No	15	178
Final status		
Dead	1	44
Alive	14	134