

Spinal metastases outcome

Despite advances in therapies using radiation oncology and spinal oncological surgery, there is a subgroup of patients with [spinal metastases](#) who suffer from progressive or recurrent [epidural](#) disease and remain at risk for neurological compromise.

The [prognosis](#) with respect to survival essentially depends on the biology of the primary tumor: two-year survival rates for patients with spinal metastases range from 9% (lung cancer) to 44% (breast or prostate cancer) ¹⁾.

[Preoperative](#) status, invasiveness, [blood loss](#) > 500 ml, and [blood transfusions](#) are independent [predictors](#) associated with a higher risk of [complication](#) ²⁾.

Data from the largest [prospective](#) surgical series of patients with symptomatic [spinal metastases](#) revealed that tumor type, the number of spinal metastases, and the presence of visceral [metastases](#) are the most useful [predictors](#) of [survival](#) and that [quality of life](#) is best predicted by preoperative [Karnofsky Performance Score](#), Frankel, and EQ-5D scores. The Karnofsky score predicts quality of life and survival and is easy to determine at the bedside, unlike the EQ-5D index. Karnofsky score, tumor type, and spinal and visceral metastases should be considered the 4 most important prognostic variables that influence patient management ³⁾.

Primary tumor type, presence of visceral metastases and performance status are significant predictors for survival after surgery for symptomatic SEM and should be evaluated before deciding on the extent of treatment. More accurate prediction models are needed to select the best treatment option for the individual patient ⁴⁾.

References

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