Malignant Spinal Cord Compression



Adapting Conventional Rehabilitation Approaches

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KEYWORDS

Malignant spinal cord compression
Neoplastic spinal cord injury
Rehabilitation

KEY POINTS

- Spinal tumors are classically grouped into 3 categories: extradural tumors, intradural extramedullary, and intradural intramedullary tumors.
- Localized spine pain is the most common symptom in patients with epidural spinal cord compression at time of diagnosis.
- Motor weakness is the second most common symptom in patients with epidural spinal cord compression at time of diagnosis.
- Management of spinal tumors varies according to the stability of the spine, neurologic status, and pain. Treatment options include surgical intervention, radiation therapy, and systemic treatments, such as chemotherapy and hormonal therapy.
- Principles of neurorehabilitation applied to patients with traumatic spinal cord injury are equally appropriate for patients with spinal tumors.

INTRODUCTION

When combined with medical, radiation, and surgical oncology care, rehabilitation can serve to relieve symptoms, improve quality of life, enhance functional independence, and prevent further complications in patients with malignant spinal cord compression.¹

EPIDEMIOLOGY AND PATHOPHYSIOLOGY

Spinal tumors are classically grouped into 3 categories: extradural tumors, intradural extramedullary tumors, and intradural intramedullary tumors (Box 1).

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Box 1

Tumors of the spine

Extradural spinal tumors

Primary malignant tumors

Lymphoma

Osteosarcoma

Ewing sarcoma

Chondrosarcoma

Chordoma

Sacrococcygeal teratoma

Malignant fibrous histiocytoma

Solitary plasmacytoma

Fibrosarcoma

Primary benign tumors

Vertebral hemangioma

Giant cell tumor

Osteochondroma

Osteoid osteoma

Osteoblastoma

Sources of epidural metastases

Adult

Prostate cancer

Breast cancer

Lung cancer

Thyroid cancer

Non-Hodgkin lymphoma

Hodgkin disease

Multiple myeloma

Renal cell carcinoma

Colorectal cancers

Sarcoma

Germ cell tumor

Unknown primary

Pediatrics

Sarcoma: primarily Ewing sarcoma

Neuroblastoma

Germ cell tumors

Hodgkin disease

Intradural extramedullary tumors

Primary malignant tumors

Malignant nerve sheath tumors

Hemangiopericytoma

Primary benign tumors

Meningioma

Schwannoma

Neurofibroma

Paraganglioma

Ganglioneuroma

Sources of leptomeningeal disease

Glioblastoma

Central nervous system lymphoma

Leukemia

Lymphoma

Breast cancer

Lung cancer

Melanoma

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