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Extrasosseous spinal epidural plasmocytoma associated with multiple myeloma: Two case reports

Cui JF *et al.* Extrasosseous spinal epidural myeloma

Jiu-Fa Cui, Ling-Ling Sun, Hua Liu, Chuan-Ping Gao

6 Abstract

BACKGROUND

Multiple myeloma is a malignant hematological disease characterized by proliferation of monoclonal plasma cells mainly in the bone marrow. Extrasosseous epidural plasmacytoma associated with myeloma arises from lymphoid tissue in the epidural space without focal vertebral involvement and is rare.

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<https://onlinelibrary.wiley.com/doi/full/10.1046/j.1440-1819.2000.00767.x>

Dec 25, 2001 · DISCUSSION. In multiple **myeloma**, **spinal** compression occurs for various reasons: compression fracture of the vertebral body, isolated **epidural** tumor of **myeloma**, or extension of **myeloma** from the other tissue into the **epidural** space. 3 The incidence of compression fracture with or without cord compression affects between 55 and 70% of patients with multiple **myeloma**. 4 ...

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Author: Yasuhiro Watanabe, Akira Endou, Shinji ...

Publish Year: 2000

[Multiple myeloma presenting as an intramedullary spinal ...](#)

<https://jmedicalcasereports.biomedcentral.com/...>

Oct 16, 2020 · Extramedullary disease in multiple **myeloma** often portends a worse diagnosis. In approximately 1% of cases, multiple **myeloma** may metastasize to the central nervous system as either leptomeningeal involvement or an intracranial, intraparenchymal lesion. **Spinal** cord metastases, however, are exceedingly rare. We present a case of **spinal** cord multiple **myeloma** as well as a **literature** review ...

Author: Long Di, Kevin Huang, Tigran Kesaya... Publish Year: 2020

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Solitary extramedullary **plasmacytoma** of thoracic **epidural** space presenting with dorsal compressive myelopathy: A case report and review of literature. J Neurosci Rural Pract 2015;6:410-2 Article

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Multiple myeloma associated with extramedullary ...

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Multiple myeloma is the commonest primary malignancy of the spine, but it rarely presents as an **extraosseous epidural tumor** with only five cases reported in literature so far.

Extraosseous multiple myeloma mimicking spinal epidural ...

<https://www.sciencedirect.com/science/article/pii/S0967586812001270>

Oct 01, 2012 · **Multiple myeloma** (MM) is a common primary malignancy of the spine, and is characterized by accumulation of monoclonal plasma cells within the bone marrow, which subsequently breaks through the cortex to invade the surrounding tissues. 1 Only six patients with **extraosseous epidural MM** without evidence of collapse or destruction of the vertebral body (VB) have been reported.2, 3, 4, 5, 6, 7 We present a patient with rare **extraosseous MM** mimicking **spinal epidural** ...

Cited by: 3 **Author:** Jong-myung Jung, Sang Hoon Yoon, Seung...

Publish Year: 2012

Multiple myeloma presenting as dural plasmacytoma

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6556834>

The finding of **intracranial**, extramedullary plasmacytoma is rare in multiple myeloma, especially with dural involvement. Meningioma remains the most common **intracranial** extra-axial mass. We report a case of a 39-year-old male who presented with **intracranial**, extra-axial mass found later to be dural plasmacytoma and additional multiple lesions on skeletal survey, leading to a diagnosis of multiple ...

Author: Laura M. Gregorio, Temitope O. Soyemi **Publish Year:** 2019

Extraosseous Multiple Myeloma: Case Report of Presentation ...

<https://www.hindawi.com/journals/crira/2017/9159035>

A rare presentation of extramedullary **multiple myeloma** in the soft tissues of the bilateral thighs prompted a literature review of published cases of extramedullary **multiple myeloma** (EM-MM) and solitary plasmacytomas to determine the relative anatomic distribution of these lesions. All available published cases in English were included in the analysis, dating back to 1966 and including 2,538 ...

Imaging Findings of Plasmacytoma of Both Breasts as a ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/pmid/26925106>

This report describes the unusual case of a primary extramedullary plasmacytoma that progressed to multiple myeloma within 15 months in a 35-year-old woman. The patient had been initially diagnosed with a primary extramedullary plasmacytoma of the epidural soft tissue at the cervical **6-thoracic 1 spine level** and the stomach.

[PDF] MULTIPLE MYELOMA ASSOCIATED EXTRAMEDULLARY ...

www.fma.org.tw/jfma/PDF/2001-100/issue_4/Article_10.pdf

Abstract: Multiple myeloma associated with extramedullary plasmacytoma at initial presentation is rare. We describe a 45-year-old female patient with an initial presentation of low back pain and right side **L5, S1 radiculopathy**. There was no evidence of vertebral involvement but an epidural tumor was found later during neurosurgical intervention.

Solitary plasmacytoma in the thoracic spine. Two case reports

<https://www.deepdyve.com/lp/springer-journals/...>

Mar 29, 2006 · **Plasmacytoma** of the spine is rather common, but solitary occurrence is not. We report **two cases** of solitary plasmacytomas in the thoracic spine. A 72 year old male and a 77 year old male presented with progressive paraparesis. In both cases, magnetic resonance images revealed tumors in the thoracic spine which predominantly occupied the posterior elements of the spine with ...

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Multiple Myeloma

Medical Condition

Cancer of mature plasma cells in the bone marrow.

Rare (Fewer than 200,000 cases per year in US)

Often requires lab test or imaging

Treatment from medical professional advised

Can last several years or be lifelong

The exact cause is not known but factors like family history and exposure to radiation increase risk. Symptoms include fatigue, nausea, constipation and bone pain among others. Treatment includes medication, radiotherapy, or bone marrow transplant.

Symptoms

Some forms of multiple myeloma may be asymptomatic, but most cases show any, or all of the four characteristic symptoms. Other symptoms are most often, a consequence of these symptoms.

- Hypercalcemia: Increased levels of calcium in the blood leads to extreme thirst, loss of appetite, nausea, confusion and constipation
- Increased protein levels in the body causes kidney damage
- Anemia occurs when cancer cells outnumber healthy RBCs. Anemia causes fatigue, dizziness and irritability
- Bone problems: Injuries, lesions and pain in the pelvis, back and ribs

Multiple myeloma weakens the immune system and increases susceptibility to infection.

Treatments

Treatment aims to kill cancer cells and control tumor growth.

Medication

- Chemotherapy: To kill rapidly multiplying cells; is non-specific and can also kill healthy fast-growing cells. Vincristine · Doxorubicin
- Targeted therapy: Destroys cancer cells only. Bortezomib · Carfilzomib
- Corticosteroids: To control inflammation in the body. Prednisone · Dexamethasone

Medical procedures: Bone marrow transplantation

Therapies: Radiation therapy

Causes

The exact cause of multiple myeloma is unknown. It starts with the abnormal production of plasma cells in the bone marrow. These cancer cells do not follow the regular cell cycle of growth, multiplication and death. They show uncontrolled division and eventually outnumber healthy cells leading to a multitude of problems.

The following factors increase risk of multiple myeloma:

- Family history: Individuals with affected family members are more likely to develop the condition.
- Monoclonal gammopathy of unknown significance (MGUS): can progress to myeloma.
- Gender: more commonly seen in males.
- Age: People over 50 are generally affected. The disease is very rare in people below 40.
- Ethnicity: African-Americans are more commonly affected.
- Overweight and obesity: may slightly increase the risk.
- Radiation: Past exposure to radiation can increase risk.
- Lowered immunity: due to HIV infection or use of immunosuppressants.

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