Solitary fibrous tumor of the thoracic spine

Rafael Cincu, Ruben Rodriguez, Ana Perez1, Trinidad Blanco2, Inaki Arrotegui, Carlos Barcia
Departments of Neurosurgery, 1Pathology, and 2Neurophysiology, Valencia University General Hospital, Valencia, Spain

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Introduction

Solitary fibrous tumors (SFT) are uncommon mesenchymal tumors that involve the pleural cavity and numerous extrathoracic sites, including prostate, kidney, thyroid, and rarely the spinal cord.[1-6] A 58-year-old white male was admitted with complaints of progressive weakness and sensory disturbance of the lower extremities of 2-year duration. There was no history of fever or trauma. His bowel and bladder functions were normal. His general and systemic examination was normal. Higher mental functions, cranial nerves, and motor and sensory functions in the upper limbs were normal. Further neurologic examination revealed decreased pain, light touch, and vibration sensations below the D4 level, muscle weakness of grade 4/5 of all muscle groups in lower limbs. The deep tendon reflexes were exaggerated in both the lower limbs, and the bilateral planters were extensor. His complete blood count and relevant clinical chemistry was normal. Magnetic resonance imaging of the thoracic spine revealed a dorsally placed well-defined mass extending from D3 to D5 level, compressing the spinal cord. The mass was mildly hypointense on the T1-weighted images and hyperintense on T2-weighted images [Figure 1]. The patient underwent D3–D5 laminectomy and tumor extirpation. There was intradural milky-white, noncapsulated tumor dorsal to the spinal cord with a definite plane of cleavage between the tumor and the surrounding cord tissue. The tumor could be removed completely. Microscopic examination of the specimen revealed spindle cell proliferation. On immunohistochemical study [Figure 2], the tumor cells were positive for vimentin, but negative for bcl2—the findings compatible with SFT.[1,3,8] The patient has been doing well at follow-up. SFT arising in the spinal cord needs to be differentiated from schwannoma, meningioma, and hemangioblastoma.[1-5] Although imaging modalities can provide a preliminary indication, the diagnosis of SFT is usually made on histology.[1,2,6,9] A careful morphologic approach and the judicious use of immunohistochemistry may assist in distinguishing them among these conditions, although some irreducible difficulties may be faced by academics of taxonomy.[1-8] SFTs are usually indolent neoplasms.
and complete surgical resection of all involved tissue is recommended.[1-3] In view of the indolent nature of the SFTs, radiotherapy or chemotherapy for remnant disease is not recommended.[3,4]

References


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