Minimal invaziv with costotransversectomy technique in a giant angiomatosis case

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Introduction

Angiomatosis is a nonneoplastic proliferative vascular lesion, which occurs mostly in soft tissues. They grow up vertically between body compartments. We present an angiomatosis case that originated from mediastinum, grew up into the thoracic spinal canal and removed by microsurgical laminotomy and costotransversectomy surgical technique [1,2].

Case

A 49 years old male patient admitted to our hospital with pain and numtness in both legs had been increasing progressively for 3 weeks after a horseshoe trauma. He had paraparesis and hypoesthesia on his neurological examination. Magnetic Resonance Imaging (MRI) revealed a mass in 43x23 mm size with heterogeneous contrast enhancement. The lesion was in upper mediastinum, at T2 vertebra level, in left paravertebral area, extending to the spinal canal by expanding neural foramen at level T2- T3 (Figure 1). The patient was operated by neurosurgeons and thoracic surgeons together. T2 and T3 total microsurgical laminectomy, left 3rd costostransversectomy and total mass excision were applied to the patient at prone position. The postoperative neurological examination was normal. Histopathological diagnosis was "Angiomatosis", a rare benign entity characterised by vascular proliferation consisting of mostly ectatic vascular structures showing multiple lobular patterns, separated by relatively good boundary from surrounding soft tissues (Figure 2).

Discussion

Mediastinal angiomatosis can spread into soft tissues and cause spinal compression symptoms, especially at the epidural space at the thoracic region. During the resection of such large tumors, it is not possible to access the tumor boundaries by only laminectomy with the posterior approach. At the same time, posterolateral approach has begun to be abandoned in the world of neurosurgery due to thoracotomy, chest tube need, additional pleural complications, prolongation of operation time and increased risk of infection. In addition to microsurgical laminectomy with posterior approach, facetectomy and postotransversectomy appear to be more minimally invasive [1-5].

Conclusion

We report that this patient with giant angiomatosis located in upper mediastinum, enwrapping the spinal cord and causin neural compression was treated successfully via microsurgical laminectomy and costotransversectomy techniques.

Figure 1: In MRI; The lesion was in upper mediastinum, in left paravertebral area, extending to the spinal canal by expanding neural foramen

Figure 2: Post operative MRI showing in operation area

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Received: May 04, 2018; Accepted: May 18, 2018; Published: May 21, 2018
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