Primary spinal cord oligodendroglioma. Case illustration

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Summary

Spinal cord oligodendrogliomas are rare pathologies of the spinal cord, and their location at conus and/or filum terminale is even rarer. There are only 7 spinal cord oligodendrogliomas reported in the literature. Our case is the eighth spinal cord oligodendrogliomas at this location.

KEY WORDS: spinal oligodendroglioma, cauda equina, filum terminale, extramedullary, intradural.

Case

A 56-year-old man suffering from bilateral leg pain for 2 months which especially worsens at nights was admitted to our outpatient clinic. There was no history of urinary incontinence. His neurological examination was unremarkable. The neuroimaging studies including magnetic resonance imaging (MRI) of the lumbar spine revealed an intratechal extramedullary mass of 23x23x13 mm. at L1-2 intervertebral disc level. The mass was isointense on T1-weighted images and hyperintense on T2 weighted images with cystic components (Figure 1).

The patient was operated upon under general anaesthesia, in prone position, on the operating table. A midline vertical skin incision was made, L1 and L2 total laminectomy was performed. Following laminectomy a midline dura incision was made and the intradural mass exposed. There was partial invasion of conus by the tumor. The mass was dissected easily from the nerve roots and conus by using micro-dissection techniques and resected totally.

Histopathological examination of the resected specimen represented an oligodendroglioma Grade 2.

Discussion

Primary spinal cord oligodendrogliomas constitutes 2% of the spinal cord tumors and 1.5% of the central nervous system oligodendrogliomas. Spinal cord is the anatomic location with the lowest predilection of oligodendrogliomas. There are 50 primary spinal cord oligodendrogliomas reported in the literature. There are 7 reported cases (17.5%) in which the tumor was either...
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located at conus and/or filum terminale. This is the 8th oligodendroglioma in this group of oligodendrogliomas. The surgery of the lesions with conal invasion may result in complications such as urinary incontinence and weakness of the lower extremity.

Although there was invasion of the conus, total resection of the tumor resulted in improvement of our patients complaints.

References


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