

Journal Article



A supratentorial primitive neuroectodermal tumor in an adult: a case report and review of the literature

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Abstract Supratentorial primitive neuroectodermal tumors (sPNET) occurring in adults are rare. Only 56 such cases have been previously reported. This report documents a 56-year-old male who presented with the chief complaint of right facial palsy. Magnetic resonance imaging (MRI) revealed left frontal and bilateral periventricular lesions. Surgery was performed for the frontal mass, which was histologically diagnosed to be sPNET. An immunohistochemistry assay for CD99, and a fluorescence in situ hybridization (FISH) assay for t(11;22) translocation revealed this PNET to be a central PNET. This case was the first case to detect a central PNET using both immunohistochemistry and the FISH assay in adult sPNET. Though radiation therapy was performed, an MRI performed 2.5 months after the surgery revealed a regrowth of the tumor. The patient died 5 months after surgery. This case report is accompanied by a review of 57 cases of adult sPNET.

Keywords Adult - CD99 - Central PNET - FISH - Supratentorial primitive neuroectodermal tumor - t(11;22)

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References secured to subscribers.

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