

Chordoid glioma of the third ventricle

Chordoid glioma of the [third ventricle](#) located exclusively in the mid-anterior portion of the [third ventricle](#) along the anterior aspect of the hypothalamic wall near the [hypothalamus](#) and optic nerves, with the histological features of a [chordoma](#) and immuno-labeling for [glial fibrillary acidic protein](#) ¹⁾.

The term “chordoid glioma” was introduced to denote a circumscribed, apparently, low-grade neoplasm arising in or preferentially involving the [third ventricle](#) of middle-aged women ²⁾.

Epidemiology

A rare (only ≈ 80 case reports). Primarily a tumor of adulthood. Female:male ratio=3:1. Solid, enhancing mass on imaging. Mitotic activity is absent in most. GFAP immunostaining is common, [S100](#) reactivity is variable. Histologically similar appearing to [chordoid meningioma](#), which lacks GFAP staining. Attachment to the wall of third ventricle ([hypothalamus](#)) may prevent total removal.

Diagnosis

The MR appearances possess unique features which are very helpful in diagnosis of chordoid glioma, but to make a definite diagnosis is based on clinical and histopathological features and immunohistochemical staining ³⁾.

Characterized by clusters and chords of epithelial cells expressing [GFAP](#), within a mucinous stroma often containing a lymphoplasmacytic infiltrate.

Treatment

Low dose gamma knife radiosurgery after less invasive microsurgery is both safe and effective for the control of chordoid glioma of the third ventricle over a very long follow-up period ⁴⁾.

Outcome

Slow-growing, noninvasive, benign tumor ([WHO grade II](#))

¹⁾

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²⁾

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