

Intracranial teratoma diagnosis

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The detection of their clinical manifestation, the analysis of imaging features and the serum levels of [tumor markers](#) help diagnose [intracranial teratomas](#) ¹⁾.

The patients [age](#), biochemical [markers](#), and patohistological analysis are necessary to confirm the [diagnosis](#) ²⁾.

Markers

Sometimes may be associated with elevated levels of:

[Serum Alpha-fetoprotein \(AFP\)](#)

[Serum carcinoembryonic antigen \(CEA\)](#)

Radiographic features

[Intracranial teratomas](#) are often seen as large lesions at presentation.

Given their extremely variable histological components, imaging also tends to be heterogeneous, with tumors typically demonstrating a mixture of tissue densities and [signal intensity](#). Fat, if present, is helpful in narrowing the differential.

CT

The majority of intracranial teratomas demonstrate at least some fat and some [calcification](#), which is usually solid / "clump-like" ^{3) 4)}

They usually have cystic and solid components, contributing to an irregular outline. Solid components demonstrate variable enhancement ⁵⁾

MRI

Intracranial teratoma Magnetic resonance imaging

1)

Huang X, Zhang R, Zhou LF. Diagnosis and treatment of [intracranial immature teratoma](#). *Pediatr Neurosurg*. 2009;45(5):354-60. doi: 10.1159/000257524. Epub 2009 Nov 11. PMID: 19907199.

2)

Romić D, Raguž M, Marčinković P, et al. Intracranial Mature [Teratoma](#) in an Adult Patient: A Case Report. *J Neurol Surg Rep*. 2019;80(1):e14-e17. doi:10.1055/s-0039-1685213

3) , 5)

Chang T, Teng MM, Guo WY, Sheng WC. CT of pineal tumors and intracranial germ-cell tumors. *AJR Am J Roentgenol*. 1989 Dec;153(6):1269-74. doi: 10.2214/ajr.153.6.1269. PMID: 2554702.

4)

Buetow PC, Smirniotopoulos JG, Done S. Congenital brain tumors: a review of 45 cases. *AJR Am J Roentgenol*. 1990 Sep;155(3):587-93. doi: 10.2214/ajr.155.3.2167004. PMID: 2167004.

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