

Pineal region tumor surgery

Indications

Controversial. Some authors feel that most tumors (except [germinomas](#), which are best treated with XRT) are amenable to open [resection](#). Others feel that resection should be limited to $\approx 25\%$ of tumors which area:

1. [radioresistance](#) (e.g. malignant nongerminoma GCTs): 35–50% of [pineal region tumors](#) (larger numbers occur in series not limited to pediatric patients)
2. benign (e.g. [meningioma](#), [teratomas](#)...)
3. well-encapsulated
4. NB: malignant [germ cell tumors](#) should be without evidence of [metastases](#) (those with metastases do not benefit from surgery on the primary tumor)
5. [pineocytoma](#): recommendation is for surgical excision + SRS for any residual

Approaches

see [Pineal region approach](#).

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Last update: **2024/06/07 02:49**

