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A concise review of stereotactic irradiation for pediatric glial neoplasms

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Tailored treatment **concepts** were applied prospectively according to the study protocol of the pilot study: 13 **Stereotactic** Iodine-125 brachytherapy (SBT) alone was indicated in circumscribed **tumors** with a maximum diameter of 4 cm. Best safe resection was initiated for larger **tumors** with a diameter of more than 4 cm; SBT of the residual tumor ...

Cited by: 8 Author: Mathias Kunz, Silke B. Nachbichler, Lorenz ...

Publish Year: 2016

Margin-Free Fractionated Stereotactic Radiation Therapy ...

<https://www.sciencedirect.com/science/article/pii/S1879850020301107>

Nov 01, 2020 · In spite of the overall positive effect of RT on disease control in low-grade **pediatric tumors**, conventional **irradiation** techniques of the **pediatric** brain has been shown to cause adverse events such as neurologic deficits in hearing and vision, cognitive delays, 36 endocrinologic dysfunction related to the hypothalamic-pituitary axis, such as hormone deficiencies and obesity, 37, 38 and ...

Author: Osama Mohamad, Osama Mohamad, Z... Publish Year: 2020

Stereotactic Radiosurgery in the Management of ...

<https://www.researchgate.net/publication/10817166...>

Glial neoplasms are the most common primary intracranial malignancies. hypofractionated **concepts**.

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Apr 01, 1996 · Abstract. WE EVALUATED THE role of **stereotactic** radiosurgery (SRS) in 25 children with surgically incurable brain tumors of **glial** origin. Histological diagnoses were obtained at the time of craniotomy and attempted removal (n = 20) or by **stereotactic** biopsy (n = 5).

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Author: Paul Grabb, L. Lunsford, A. Albright, Dougla...

Publish Year: 1996

(PDF) Stereotactic radiosurgery for pediatric brain tumors ...

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Grabb et al. present their results in 25 children with unresectable **glial neoplasms** who were treated with **stereotactic** radiosurgery using the gamma knife. Thirteen of the patients had "benign" tumors (pilocytic astrocytoma or non-pilocytic low-grade astrocytoma) and were treated with single doses of 11-20 Gy to the periphery of the tumor.

Stereotactic Neurosurgical Treatment Options for ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3356096>

Craniopharyngiomas are the most common non-**glial tumors** with an incidence of 0.5–1.0 per million new patients per year, of which 30–50% occur in childhood. In children, they are often of the adamantinomatous type with cyst formations and are frequently associated with a mutation of the beta-catenin gene (Müller, 2010).

Cited by: 4

Author: Michael Trippel, Guido Nikkhah

Publish Year: 2012

(PDF) Stereotactic Radiosurgery and Interstitial ...

Name of Journal: *World Journal of Methodology*

Manuscript NO: 60899

Manuscript Type: MINIREVIEWS

Concise review of stereotactic irradiation for pediatric glial neoplasms: Current concepts and future directions

Stereotactic irradiation for pediatric glial neoplasms

Abstract

Brain tumors, which are among the most common solid tumors in childhood, remain a leading cause of cancer-related mortality in pediatric population. Gliomas, which may be broadly categorized as low grade glioma (LGG) and high grade glioma (HGG), account for the majority of brain tumors in children. Expectant management, surgery, radiation therapy (RT), chemotherapy, targeted therapy or combinations of these modalities may be used for management of pediatric gliomas. Several patient, tumor and treatment-related characteristics including age, lesion size, grade, location,

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<https://academic.oup.com/neurosurgery/article/38/4/696/2812890> ▼

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(PDF) Stereotactic Radiosurgery and Interstitial ...

<https://www.academia.edu/14523930/Stereotactic...> ▼

Unacceptable toxicity was more frequent in patients with larger tumors, and local control was also dependent on the type of recurrent tumor, with an increased risk of local progression 2.85 times higher for gliomas vs. brain metastases. As with other tumors, the targets for radiosurgery are the proliferating glial cells and blood vessels ...

Margin-Free Fractionated Stereotactic Radiation Therapy ...

<https://www.sciencedirect.com/science/article/pii/S1879850020301107>

Nov 01, 2020 - In spite of the overall positive effect of RT on disease control in low-grade pediatric tumors, conventional irradiation techniques of the pediatric brain has been shown to cause adverse events such as neurologic deficits in hearing and vision, cognitive delays, 36 endocrinologic dysfunction related to the hypothalamic-pituitary axis, such as hormone deficiencies and obesity, 37, 38 and ...

Author: Osama Mohamad, Osama Mohamad,... Publish Year: 2020

Gamma Knife Radiosurgery for High Grade Glial Neoplasms: ...

<https://www.researchgate.net/publication/258823127...>

Object: To review our institutional experience with Gamma Knife (GK) stereotactic radiosurgery in treating focally recurrent high grade glial neoplasms of World Health Organization (WHO) grade III