

Craniopharyngioma treatment

Multimodal management of [craniopharyngiomas](#) seems to provide a better rate of survival and greater long-term disease control. It is suggested that [GKS](#) combined with adjuvant [neuroendoscopy](#) should be used as an alternative in treating recurrent or residual craniopharyngiomas if additional microsurgical removal cannot guarantee a cure ¹⁾.

Surgery

see [Craniopharyngioma surgery](#)

Intensity modulated radiation therapy (IMRT)

IMRT is a viable treatment option for pediatric craniopharyngioma. Despite the use of IMRT, the majority of the craniopharyngioma patients experienced long-term toxicity, many of which present prior to radiotherapy. Limitations of retrospective analyses on small patient cohort elicit the need for a prospective multi-institutional study to determine the absolute benefit of IMRT in pediatric craniopharyngioma ²⁾.

Proton beam therapy

Currently there is no clear evidence that proton beam therapy will improve survival or reduce morbidity for children with craniopharyngioma. However, proton therapy has the potential to reduce RT dose to the Circle of Willis, which may reduce the risk of future cerebrovascular complications. We propose that more resources should be allocated to ensuring these patients are managed by experienced multidisciplinary teams through the continuum from diagnosis to long-term follow-up ³⁾.

see also [Phosphorus 32 for craniopharyngioma](#).

¹⁾

Barajas MA, Ramírez-Guzmán G, Rodríguez-Vázquez C, Toledo-Buenrostro V, Velásquez-Santana H, del Robles RV, Cuevas-Solórzano A, Rodríguez-Hernández G. Multimodal management of craniopharyngiomas: neuroendoscopy, microsurgery, and radiosurgery. *J Neurosurg.* 2002 Dec;97(5 Suppl):607-9. doi: 10.3171/jns.2002.97.supplement. PMID: 12507105.

²⁾

Greenfield BJ, Okcu MF, Baxter PA, Chintagumpala M, Teh BS, Dauser RC, Su J, Desai SS, Paulino AC. Long-term disease control and toxicity outcomes following surgery and intensity modulated radiation therapy (IMRT) in pediatric craniopharyngioma. *Radiother Oncol.* 2014 Dec 23. pii: S0167-8140(14)00540-4. doi: 10.1016/j.radonc.2014.11.035. [Epub ahead of print] PubMed PMID: 25542650.

³⁾

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