Proton Radiotherapy for Pediatric Central Nervous System Ependymoma: Clinical Outcomes for 70 Patients

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Background

- Proton RT is more conformal than most forms of photon external beam RT
- We report the tumor outcomes and toxicities of 70 patients with ependymoma treated with proton RT
Findings

• Disease control and survival outcomes were similar to outcomes in patients treated with photon RT
Findings

• IQ and adaptive skills were relatively preserved in a sub-set of patients
Conclusions

• Outcomes for localized ependymoma compare favorably to modern photon series

• Low incidence of endocrinopathy, auditory toxicity and cognitive decline

• This study supports consideration of proton RT for patients with ependymoma