

# Hemispheric Medulloblastoma

Joseph Junewick, MD FACR

01/12/2012

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## History

17 year old male with headache and vomiting.

## Diagnosis

Hemispheric Medulloblastoma

## Discussion

In children, medulloblastoma is typically a well defined tumor involving the vermis; on MR T1 signal is similar or lower than cortex, T2 signal is variable and enhancement is fairly uniform and intense. In adults, medulloblastoma is more peripherally located in the hemispheres and may or may not be well defined; signal and enhancement are more variable. The size and the presence of calcifications, edema and hydrocephalus are similar between adults and children. Medulloblastoma derives from pleuripotential cells of the germinal zone in the posterior medullary velum. During cerebellar development, these cell migrate peripherally to form the granular layer. Consequently, this peripheral migration appears to account for the age-related differences in tumor location.

## Findings

MR-Axial T1, T2-FLAIR, T2 and postgadolinium T1 images demonstrate a macrolobulated intermediate signal, minimally enhancing mass in the left cerebellar hemisphere.

## Reference

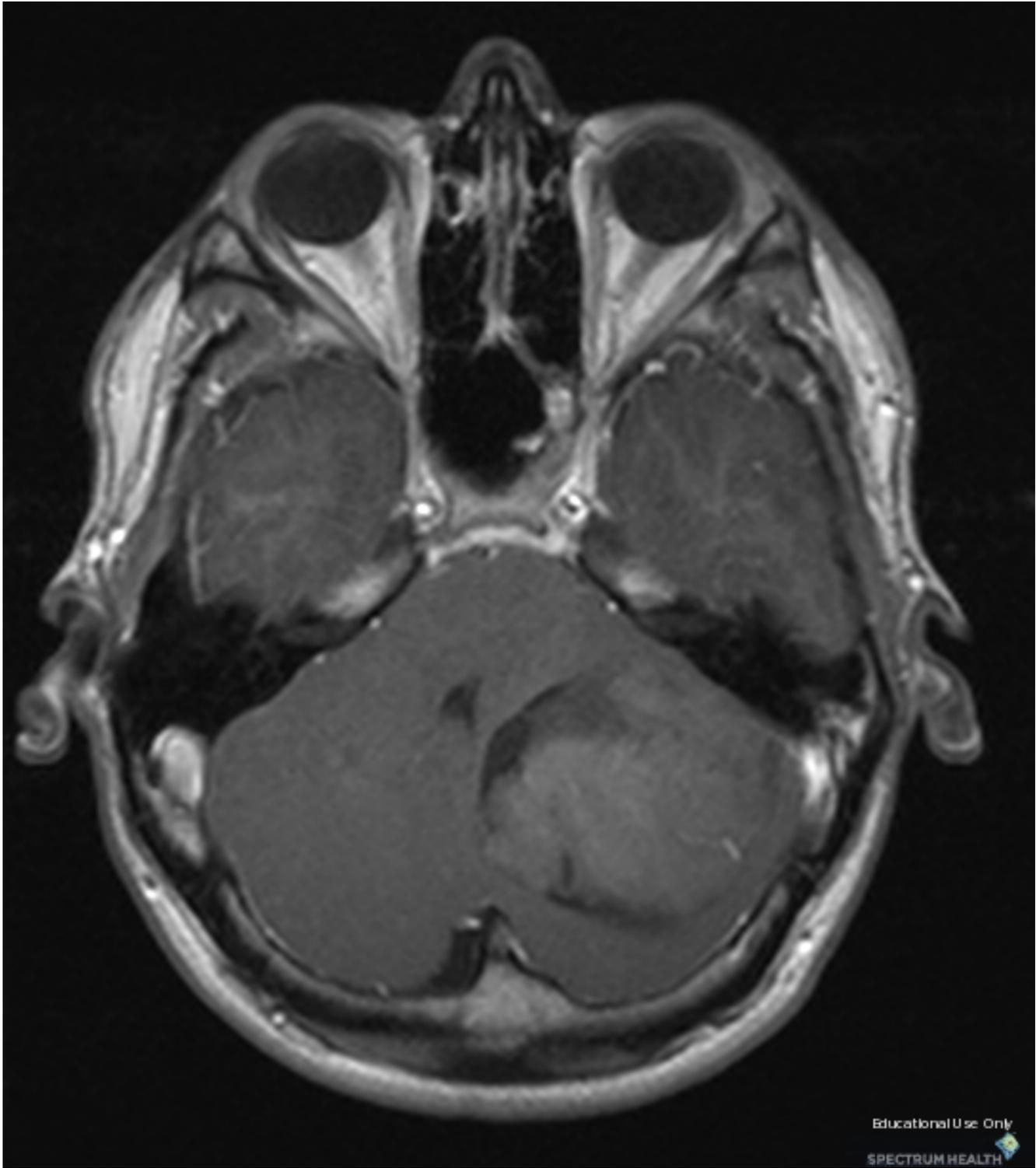
Bourgouin PM, et al. CT and MR Imaging Findings in Adults with Cerebellar Medulloblastoma: Comparison with Findings in Children. *AJR* (1992); 159:609-612.

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