

53rd ANNUAL DIAGNOSTIC SLIDE SESSION 2012

CASE 2012-5

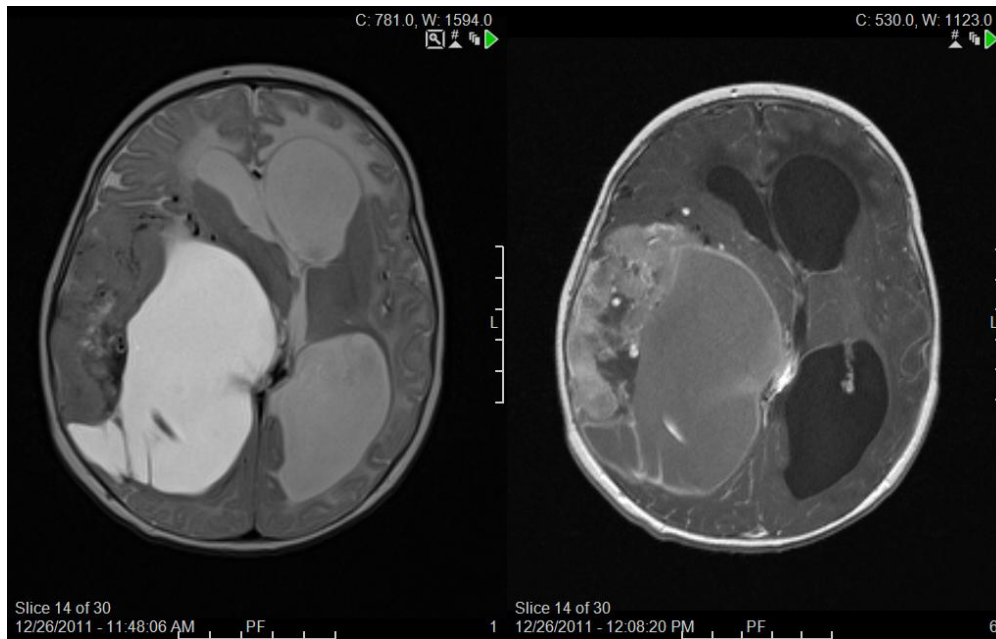
Submitted by:

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Clinical History:

This is a 3-month-old female who was seen in the emergency department after her mother noticed a “bump on the right side of her head”. The mother noticed the bump suddenly and it has not been increasing in size. The patient was otherwise feeding well and meeting her developmental milestones. She was up to date with her vaccination when she presented. No prior hospitalization or medications. Of note, her mother had prenatal ultrasounds performed which did not show any abnormality.

Physical examination revealed a 3 x 3 cm raised soft swelling over the right parietal region. The head circumference was found to be enlarged at 44 cm (>95%ile). No focal neurologic deficits were appreciated.



The axial T2 weighted image demonstrated a large mixed signal cystic and solid right hemispheric mass lesion with a T2 hypointense, peripheral plaque-like solid component. There was significant associated mass effect and hydrocephalus. The post gadolinium T1 weighted image demonstrated heterogeneous enhancement of the solid component as well as enhancement of the cyst walls.

Her tumor was resected in two staged surgeries due to excessive hemorrhage with the first procedure. Operative findings included areas of thinned and eroded skull overlying the tumor and large feeding vessels involving the tumor. Ventricular CSF cytology was sent from her first procedure and showed no evidence of malignant cells. Subsequent spine MRI (performed several months after her surgeries) did not reveal any signs of metastatic disease.

Material submitted:

Axial T2 & T1 images

One H&E and one unstained section

Point for discussion:

Expected biologic behavior