

64th ANNUAL DIAGNOSTIC SLIDE SESSION 2023

CASE 2023-11

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Clinical History:

A 25-year-old man in his normal state of health experienced a first lifetime seizure. He was playing video games with some friends when his roommate heard a noise and discovered him at the base of the stairs. MRI demonstrated a 1.6 cm mildly enhancing cystic intraparenchymal lesion in the peripheral left inferior parietal lobe. He was treated with antiepileptics and followed with serial imaging and planned for surgical resection. Five months later, the patient presented with a new scalp lesion (initially tender to touch without associated erythema or skin ulceration). Repeat brain imaging showed a 1.2 x 1.6 cm right frontal lesion with enhancement of the adjacent scalp, loss of the subjacent right frontal calvarial cortex, and thickening and enhancement of the underlying right frontal dura. His previously documented intracranial left parietal lobe lesion was unchanged/stable in appearance. He underwent surgical biopsy and resection of the right frontal scalp mass.

Material submitted: 1. H&E section of right frontal scalp mass
2. MRI images of right frontal scalp lesion and left parietal lobe mass

Points for discussion: 1. Discuss the differential diagnosis for these histological findings
2. List appropriate ancillary testing to confirm the diagnosis