

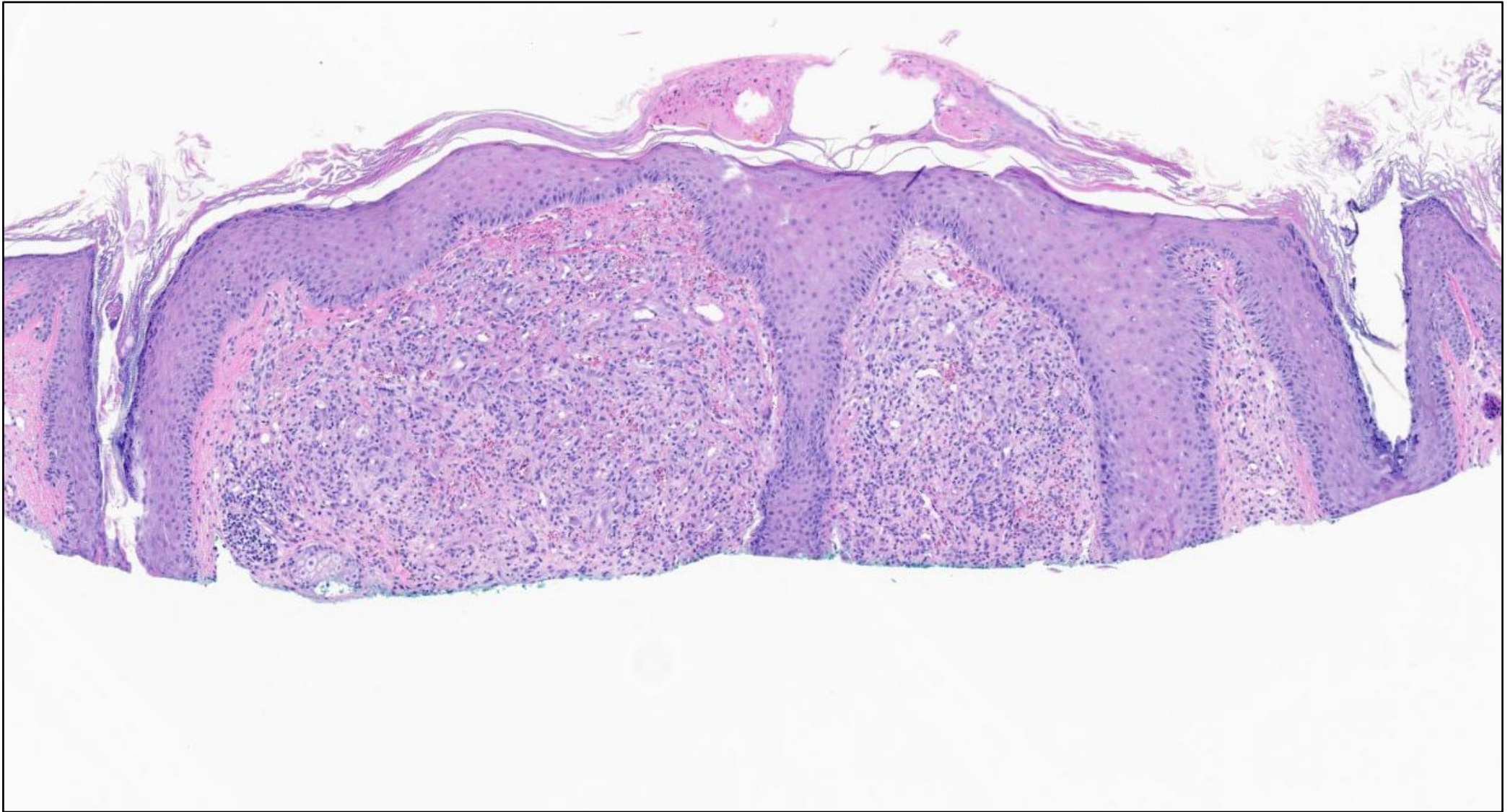


One is Common, Many is a Question: A Clinicopathological Case Challenge

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53 yo Caucasian male

- Shave biopsy
 - Left parietal scalp
 - Neoplasm of uncertain behavior of skin
 - Bleeding red papules of abrupt onset. Rule out vasculitis, angiomas



H and E 100x

Pathology Report

- Diagnosis:
 - Skin, left central frontal scalp (Shave Biopsy): **Lobulated capillary hemangioma (pyogenic granuloma)**

An astute
clinician to
the rescue!



**MULTIPLE
PYOGENIC
GRANULOMAS
ON THE SCALP**

**NAH, WE
NEED TO
DIG DEEPER
(LITTERALLY)**

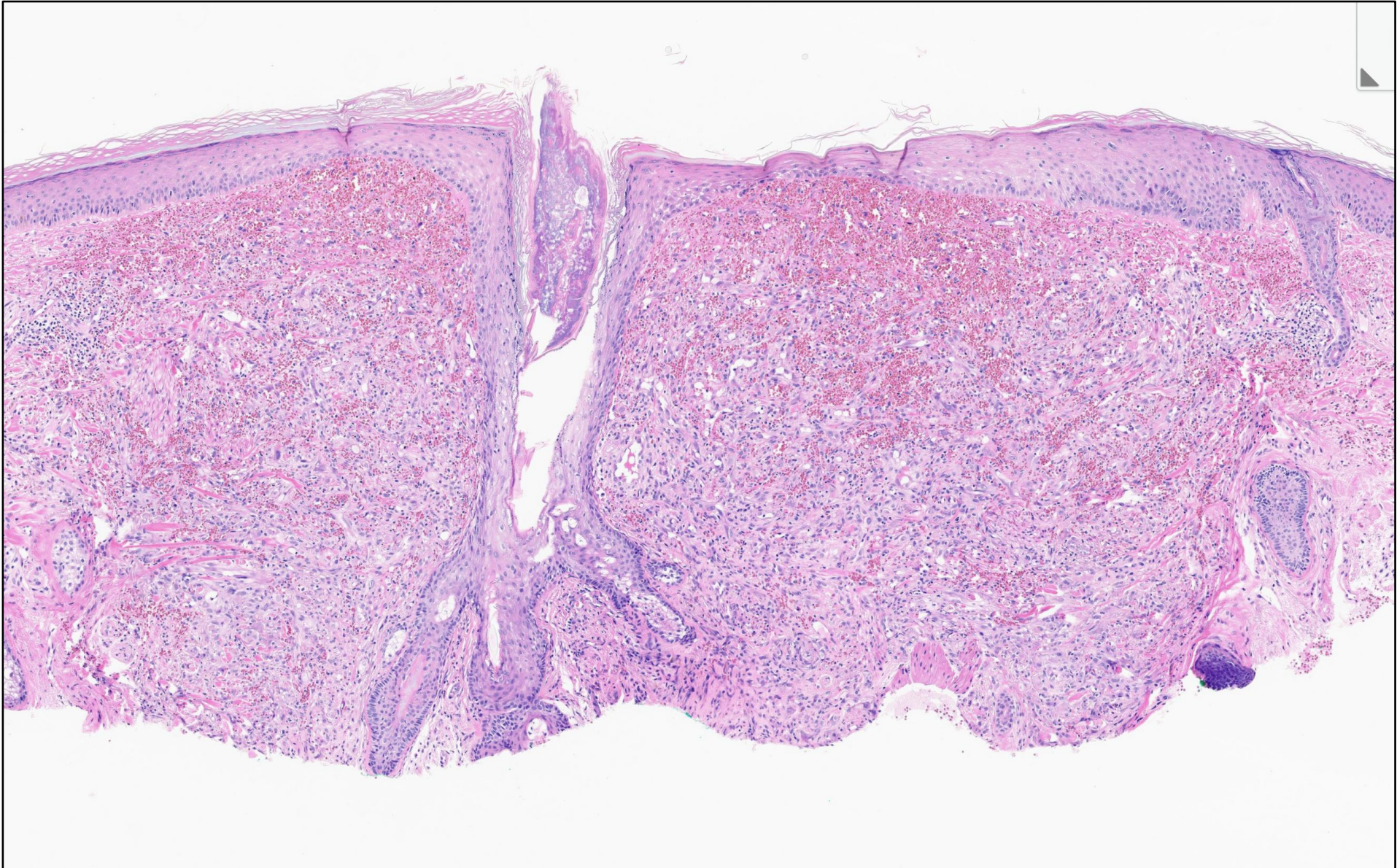
Let's get some additional history AND TISSUE

- 1 year history of a SQ nodule on the L temple
- Abrupt development of vascular papules on the frontal, temporal and parietal scalp
- Lesions are non-tender, but do bleed from time to time
- Additional review of systems negative

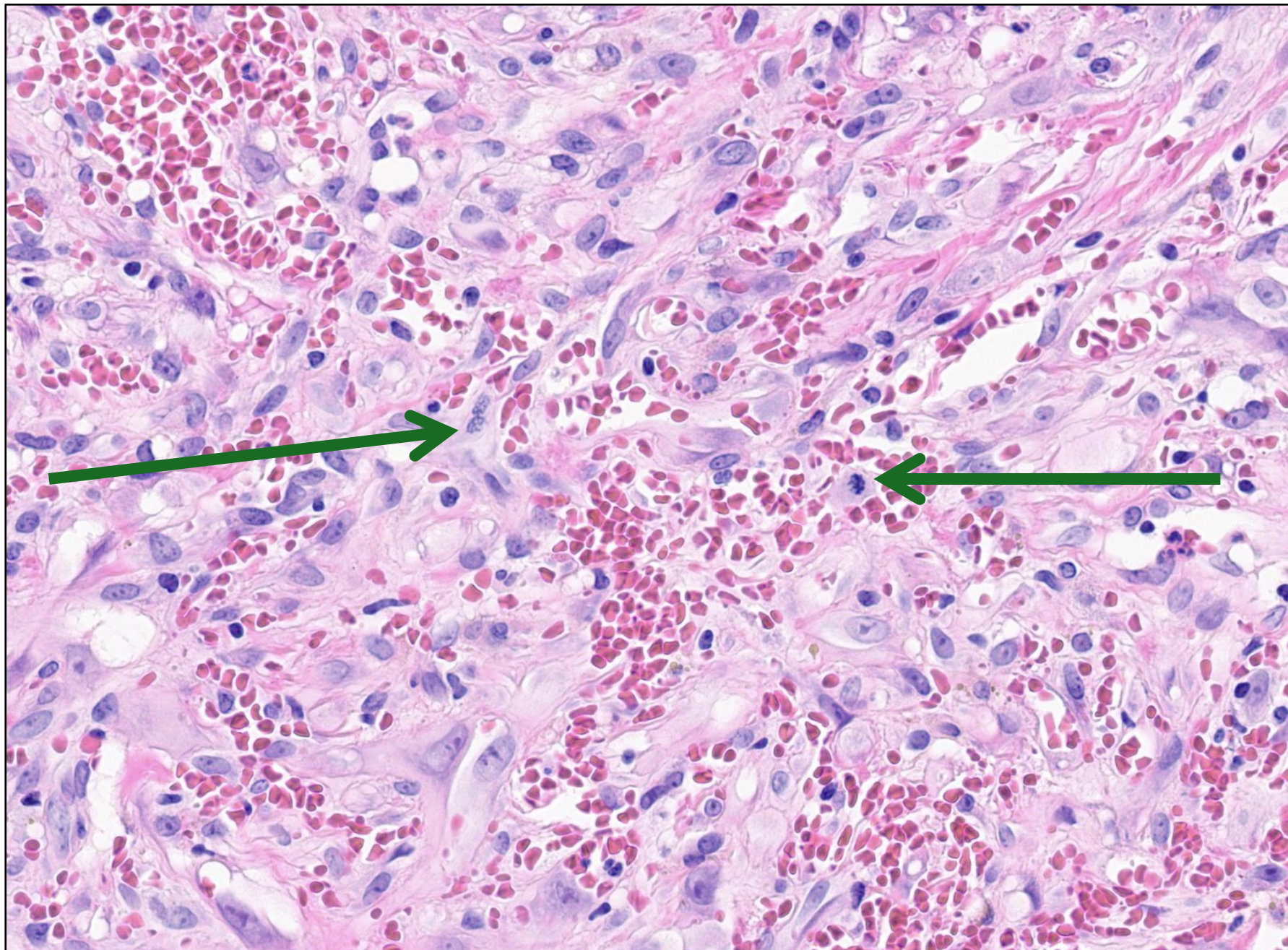
Any other history??

- After further questioning, patient reports a CTA approximately 1 year ago that showed a mass in the internal lining of the left superficial temporal artery
 - Radiologist did not feel that the lesion represented a malignant process
 - Patient was lost to follow up





H and E 100x



H and E 400X

Clinical course

- Patient has been referred to tertiary care center
- Plan is for neo-adjuvant chemoradiation followed by surgical excision

Important Lessons

- Community labs often do not receive/have access to photographs
 - If something doesn't fit, don't hesitate to reach out to your dermatopathologist
- More history is always better
- If there is concern for malignancy, the more tissue the better!
 - The surface of may not be representative of the whole of the lesion

	Angiosarcoma (primary)	Radiation-induced angiosarcoma	Atypical vascular lesion	Kaposi sarcoma
Architecture	Infiltrative, irregular anastomosing channels dissecting collagen, deep extension	Same as primary	Superficial, wedge- shaped, relatively circumscribed	Jagged vessels around native vessels (patch), then spindle cell fascicles (plaque/nodule)
Cytology	Marked atypia, multilayering, hobnailing, mitoses	Same as primary	Bland endothelium, minimal atypia, rare mitoses	Bland spindle cells, slit-like spaces, extravasated RBCs, hyaline globules
Vascular markers	CD31+, ERG+	CD31+, ERG+	CD31+, ERG+ (D2-40+ in lymphatic type)	CD31+, ERG+, CD34+, D2-40+
HHV-8	Negative	Negative	Negative	Positive
MYC	Variable, often negative	Amplified/positive	Negative	Negative