Non-inflammatory Bullae of the Dorsal Hand

Elizabeth M. Mata

Tell us how you used this information in this short survey.
Follow this and additional works at: https://digitalcommons.unmc.edu/gmerj

Part of the Higher Education Commons, and the Medicine and Health Sciences Commons

Recommended Citation
https://digitalcommons.unmc.edu/gmerj/vol4/iss1/33

This Conference Proceeding is brought to you for free and open access by DigitalCommons@UNMC. It has been accepted for inclusion in Graduate Medical Education Research Journal by an authorized editor of DigitalCommons@UNMC. For more information, please contact digitalcommons@unmc.edu.
Non-inflammatory Bullae of the Dorsal Hand

Creative Commons License

This work is licensed under a Creative Commons Attribution-Noncommercial-No Derivative Works 4.0 License.

This conference proceeding is available in Graduate Medical Education Research Journal: https://digitalcommons.unmc.edu/gmerj/vol4/iss1/33
These findings allowed us to appropriately counsel the patient’s parents and advance his candidacy for surgical treatment. Following the hemispherectomy the patient’s status epilepticus has resolved, and he has remained seizure free for 4 weeks. Post-operatively his hemiparesis and language function have improved. Patient consent was obtained to use this case for educational purposes.

**Conclusion:** To our knowledge, this is the first report on the use of MEG and a passive listening paradigm in an adolescent patient undergoing presurgical evaluation for treatment of RE in a dominant hemisphere. The data obtained during this evaluation further broadens the utility of the MEG in providing valuable information regarding cortical reorganization of language function in progressive neurological conditions of an adolescent brain. The applications of MEG for mapping eloquent cortical functions may be expanded to other chronic structural and autoinflammatory disorders of the brain.

https://doi.org/10.32873/unmc.dc.gmerj.4.1.024

---

**Non-inflammatory Bullae of the Dorsal Hand**

Elizabeth M. Mata¹,², Dillon Clarey¹, Elliot Blue¹, Megan Arthur¹

¹Department of Dermatology, College of Medicine, University of Nebraska Medical Center
²University of Arizona College of Medicine, Tucson, AZ

**Mentor:** Megan Arthur

**Program:** Dermatology

**Type:** Case Report

**Background:** Pseudoporphyria is a photodistributed disorder with clinical and histologic features similar to porphyria cutanea tarda. It is differentiated by having normal plasma, urine, and stool porphyrins. Common causes of pseudoporphyria include medications, sun exposure, and chronic renal failure. Young female patients are predominately affected.

**Case:** A 47-year-old male with acute myeloid leukemia status post allogeneic peripheral stem cell transplant (PSCT) developed a rash (scalp, upper neck, hand erythema worse with sun exposure) on day 16 post-transplant. Notable medications included voriconazole for fungal prophylaxis. Exam noted blanchable erythema over the neck and bilateral upper extremities with tense bullae over the dorsal left-hand 2nd and 5th digits. Punch biopsies for hematoxylin and eosin (H&E) and direct immunofluorescence (DIF) from the left-hand 2nd digit bullae and perilesional, respectively, revealed a subepidermal bullae with eosinophilic hyaline-like material on the roof, rete ridge festooning, and mild perivascular staining for IgG. This was consistent with porphyria or pseudoporphyria. Labs were obtained to differentiate the two, revealing normal serum and urine porphyrin levels. Given the constellation of findings, pathology, and laboratory, a diagnosis of pseudoporphyria secondary to voriconazole was made. Patient consent was obtained to use this case for educational purposes.

**Conclusion:** Pseudoporphyria develops most often secondary to non-steroidal anti-inflammatory drugs (NSAIDs). Voriconazole-induced cutaneous reactions occur in less than 10% of patients. Treatment options include discontinuation of causative agents, sunscreen application, and usage of sun-protective clothing.

https://doi.org/10.32873/unmc.dc.gmerj.4.1.025

---

**Figure 1.** Panel A and C: Blanchable erythema on the neck and bilateral upper extremities. Scale in the postauricular regions. Panel B: Left dorsal hand with tense bullae overlying an erythematous base on the 2nd and 5th digits. Panel D: Demarcation over the right medial malleolus at the site of a previous sunburn.