

Evaluating the Use of Supplemental Training Technologies in Dermatology Education

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- **Dermatology training methods**
 - There is no known data on dermatology training in PA programs.
 - The data on medical school training suggests:¹
 - ~50% of US medical schools provide 10 or less hours of dermatology training
 - ~8% of US medical schools provide no instruction in dermatology
- **Dermatology training methods**
 - One study (Ulman et al) demonstrates medical students are not proficient in diagnosis and treatment of dermatologic disease despite about 18 hours hours of training¹
 - authors of this study suggests evaluation of dermatology curriculum nationwide
- Researchers out of UCLA found that we learn by “**pattern recognition**”²⁻³
 - EKG
 - Diagnostic images
 - Ultrasonography
 - Dermatology
 - Histopathology
- Online Perceptual and Adaptive Learning Modules™ (**PALMs**) were created to help students increase mastery of medical skills through **pattern recognition**²⁻³
 - PALMs provide practice examples that enable optimization of rate and retention of performance in specific medical skill areas.²⁻³

Technology platform evaluated:

- PALMs -- Med Insight LT (Insight Learning Technology, Inc. ©2021)
 - <https://med.insightlt.com/site/>

References:

1. Ulman CA, Binder SB, Borges NJ. Assessment of medical students' proficiency in dermatology: Are medical students adequately prepared to diagnose and treat common dermatologic conditions in the United States? *J Educ Eval Health Prof.* 2015;12:18. doi:10.3352/jeehp.2015.12.18
2. Kellman PJ. Adaptive and perceptual learning technologies in medical education and training. *Military Medicine.* 2013;178(1930-613X (Electronic)):98-106.
3. Rimoin L, Altieri L, Craft N, Krasne S, Kellman PJ. Training pattern recognition of skin lesion morphology, configuration, and distribution. *Journal of the American Academy of Dermatology.* 2015;72(3):489-495.