

## Artificial Intelligence-Assisted Mnemonics in Dermatology

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Dear Editor,

I read with great interest the excellent article that was recently published by Lallas A et al. on a novel approach to melanonychia [1]. Reaching a correct diagnosis in cases of melanonychia is challenging, which makes such a new practical approach quite valuable. This can be further facilitated by the use of mnemonics to help recall the different steps of the approach in a busy clinic.

Artificial intelligence has a promising potential as a tool to develop educational mnemonics [2]. I aimed to demonstrate that potential using ChatGPT. The novel approach to melanonychia was used for this purpose. The authors suggested several practical sequential steps to assess melanonychia. In order to create a mnemonic that would make those steps easier to remember, a conversation was initiated with ChatGPT (Supplemental Material, Video S1). First, the PDF file of the article was uploaded, then the chatbot was asked to analyze the paper. This was followed by requesting the creation of a mnemonic. It created a nice mnemonic but did not go through the same sequence that is mentioned in the

paper. When finally asked to create another mnemonic that follows the same sequence as in the paper, a nice simple mnemonic was developed; the mnemonic is “Happy Adults Need Free Brown Shoes Regularly Fitted.” It covers all the steps in the right order as follows: 1. Hemorrhage first. 2. Age matters. 3. Number of nails. 4. Free edge matters. 5. Brown or Gray? 6. Size matters. 7. Regular or irregular? 8. Follow-up or Follow-back. A similar approach can potentially help create mnemonics in many different areas of dermatology education.

### References

1. Lallas A, Korecka K, Apalla Z, et al. Seven Plus One Steps to Assess Pigmented Nail Bands (Melanonychia Striata Longitudinalis). *Dermatol Pract Concept.* Oct 1 2023;13(4). DOI:10.5826/dpc.1304a204. PMID: 37992383.
2. Arango-Ibanez JP, Posso-Nuñez JA, Díaz-Solórzano JP, Cruz-Suárez G. Evidence-Based Learning Strategies in Medicine Using AI. *JMIR Med Educ.* May 24 2024;10:e54507. DOI:10.2196/54507. PMID: 38801706.