



TELEDERMATOLOGY

ARTIFICIAL INTELLIGENCE AND NOVEL APPLICATIONS IN DERMATOLOGY

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Background: Machine Learning and artificial intelligence continues to be explored by clinicians for applications into clinical use. In the field of dermatology, there are many opportunities for machine learning and digital dermoscopy to facilitate advanced clinical decision-making in the diagnosis of pigmented lesions.

Observation: In this article, we review the types of images required, the number of images required for machine learning, and ultimately establishing a neural network capable of assisting with clinical decision making in dermatology. We review applications piloted in the Greater Toronto Area in Canada, and research activities of image analysis and artificial intelligence, with specific insights into how we can incorporate machine learning and expand access to care in remote areas.

Key Message: Clinicians should be made aware of applications in machine learning/artificial intelligence that will have the potential to augment and change their clinical practice.

