

Overview

3

Reflectance confocal microscopy may enhance the accuracy of histopathologic diagnosis: A case series.

Shahriari N, Grant-Kels JM, Rabinovitz H, Oliviero M, Scope A. J Cutan Pathol. 2019 Jul 12. doi: 10.1111/cup.13548.

ABSTRACT

Although histopathology is the time-honored gold standard diagnostic measure in dermatology, several factors may detract from an accurate microscopic diagnosis. Limiting factors include: human error, suboptimal biopsy-site selection or biopsy technique, and inherent restrictions of vertical tissue sectioning that lead to incomplete microscopic evaluation of the lesion. Reflectance confocal microscopy (RCM) is a non-invasive imaging tool that allows for the cellular-level examination of the lesion, at a horizontal plane, which may complement the subsequent vertical histopathological tissue examination. Herein, we report a case series whereby prebiopsy RCM examination enhanced the accuracy of histopathological diagnosis or allowed for a critical appraisal of initial histopathological misdiagnosis. © 2019 John Wiley & Sons A/S. Published by John Wiley & Sons Ltd. **KEYWORDS:** basal cell carcinoma; confocal microscopy; histopathology; melanoma PMID:31298761 DOI:10.1111/cup.13548