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### Systematic review and proposal of an in vivo reflectance confocal microscopy assessment tool for cutaneous lymphoma.

Melhoranse Gouveia B, Wells J, Kim J, Consuegra G, Longo C, Fernandez-Penas P. *J Cutan Pathol.* 2020 Mar;47(3):295-304. doi: 10.1111/cup.13598. Epub 2019 Nov 6.

#### ABSTRACT

**BACKGROUND:** Reflectance confocal microscopy (RCM) is a non-invasive imaging technique that provides dynamic information and allows in vivo monitoring, with excellent histologic correlation. In the last decade, the use of RCM for cutaneous T-cell lymphomas (CTCL) has been reported. CTCL may require multiple biopsies for diagnosis due to its equivocal clinical presentation. RCM was described as a possible tool to help determine the best site for skin biopsy. This study aims to systematically review all RCM features reported in literature for CTCL. **METHOD:** A systematic literature search concerning CTCL evaluated by RCM was performed in eight electronic databases until May 2019 following PRISMA-DTA quality assessment. **RESULTS:** Eighteen RCM features were described in patients with CTCL. The most frequent were: interface dermatitis (89%), epidermal lymphocytes (82%), epidermal architectural disarray (81%), and vesicle-like structure (Pautrier microabscess) (51%). **CONCLUSION:** In order to establish comparable parameters among the studies identified, we proposed descriptors for CTCL features and a grading system to quantify them. This will facilitate to define the role of RCM in the diagnosis and monitoring of CTCL patients. © 2019 John Wiley & Sons A/S. Published by John Wiley & Sons Ltd. **KEYWORDS:** CTCL; RCM score; cutaneous lymphoma; mycosis fungoides; reflectance confocal microscopy PMID: 31618473 DOI: 10.1111/cup.13598