

New peri-op approach accurately IDs melanoma in nail matrix

14 June 2012



Image courtesy of Blausen Medical

"Intraoperative RCM examination of the nail matrix is an efficient diagnostic approach of melanonychia striata that permits an extemporaneous diagnosis of malignancy and therefore a one-step surgical treatment of in situ or minimally invasive melanoma, reducing dramatically the duration of postoperative disability," the authors write.

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Intraoperative reflectance confocal microscopy can be used to diagnose melanonychia striata in the nail matrix, according to a study published online June 7 in the *British Journal of Dermatology*.

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Sébastien Debarbieux, M.D., of the Centre Hospitalier Lyon Sud in Pierre Bénite, France, and colleagues assessed the feasibility of intraoperative [diagnosis](#) of melanonychia striata in a series of nine patients who underwent a matricial biopsy for an acquired melanonychia (one benign lentigo, eight melanomas). RCM examination was performed in vivo and/or ex vivo.

The researchers found that confocal and histopathological features correlated well. Confocal features were used for unequivocal intraoperative diagnosis of seven of the [melanoma](#) cases, and RCM correctly classified the lentigo as benign. RCM did not provide a definite classification for the last lesion, which corresponded histopathologically to an early melanoma.

APA citation: New peri-op approach accurately IDs melanoma in nail matrix (2012, June 14) retrieved 19 August 2022 from

<https://medicalxpress.com/news/2012-06-peri-op-approach-accurately-ids-melanoma.html>

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