

# Novel microendoscope ups accuracy of esophageal screening

July 29 2015

---



(HealthDay)—A novel, low-cost, high-resolution microendoscope (HRME) improves the accuracy of Lugol's chromoendoscopy (LCE) for screening and surveillance of esophageal squamous cell neoplasia, according to a study published in the August issue of *Gastroenterology*.

Marion-Anna Protano, M.D., from Mount Sinai Medical Center in New York City, and colleagues examined the accuracy of HRME as an adjunct to LCE in 147 high-risk patients, enrolled from two U.S. and two Chinese centers.

The researchers found that for LCE versus LCE + HRME, sensitivity was 96 versus 91 percent ( $P = 0.0832$ ), specificity was 48 versus 88

percent (P

"HRME may be a cost-effective optical biopsy adjunct to LCE, potentially reducing unnecessary biopsies and facilitating real-time decision making in globally underserved regions," the authors write.

One author holds a patent related to optical diagnostic technologies that has been licensed to Remicalm; another author disclosed financial ties to Gilead Pharmaceuticals.

**More information:** [Abstract](#)  
[Full Text \(subscription or payment may be required\)](#)

Copyright © 2015 [HealthDay](#). All rights reserved.

Citation: Novel microendoscope ups accuracy of esophageal screening (2015, July 29) retrieved 13 May 2024 from <https://medicalxpress.com/news/2015-07-microendoscope-ups-accuracy-esophageal-screening.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--