

List of References and Acknowledgments



References:

The following references have shown the benefits of optical biopsy and validated the criteria of interpretation that are commonly used.

Barrett's Esophagus:

- Gaddam S. et al. Novel probe-based confocal laser endomicroscopy criteria and interobserver agreement for the detection of dysplasia in Barrett's esophagus. *Am J Gastroenterol*, 2011
- Sharma P. et al. Real-time Increased Detection of Neoplastic Tissue in Barrett's Esophagus with Probe-based Confocal Laser Endomicroscopy: Final Results of a Multi-center Prospective International Randomized Controlled Trial. *GIE*, 2011
- Bertani H. et al. Improved detection of incident dysplasia by pCLE in a Barrett's Esophagus surveillance program. *Digestive Disease Science*, 2012
- Konda V.J. et al. Confocal Laser Endomicroscopy: potential in the management of Barrett's Esophagus. *Diseases of the Esophagus*, 2010
- Johnson E.A. et al. Probe-based Confocal Laser Endomicroscopy to Guide Real-Time Endoscopic Therapy in Barrett's Esophagus with Dysplasia. *Case Rep. Gastroenterology*, 2012

Gastric lesions:

- Li W.B. et al. Diagnostic value of confocal laser endomicroscopy for gastric superficial cancerous lesions. *Gut*, 2011
- Guo Y.T. et al. Diagnosis of Gastric Intestinal Metaplasia with Confocal Laser Endomicroscopy In Vivo: a Prospective Study. *Endoscopy*, 2008
- Bok G.H. et al. The Accuracy of Probe-based Confocal Endomicroscopy versus Conventional Endoscopic Biopsies for the Diagnosis of Superficial Neoplasia (with videos). *GIE*, 2013
- Li Z, Zuo XL, Li CQ, et al. New Classification of Gastric Pit Patterns and Vessel Architecture Using Probe-based Confocal Laser Endomicroscopy. *J Clin Gastroenterol*, 2015

Biliopancreatic strictures:

- Meining A. et al. Classification of probe-based confocal laser endomicroscopy findings in pancreaticobiliary strictures. *Endoscopy*, 2012
- Caillol F. et al. Refined probe-based confocal laser endomicroscopy classification for biliary strictures: the Paris Classification. *Dig Dis Sci*, 2013
- Klavan H. et al. Pancreaticobiliary Submucosal Anatomy Redefined: A Comprehensive Histologic Analysis of Specimens and Probe-Based Confocal Laser Endomicroscopy. *Gastroenterology*, 2013
- Meining et al. Detection of Cholangiocarcinoma in vivo using miniprobe-based Confocal Fluorescence Microscopy. *Clinical Gastroenterology and Hepatology*, 2008
- Meining A. et al. Direct Visualization of Indeterminate Pancreaticobiliary Strictures using Probe-based Confocal Laser Endomicroscopy - A multi-center experience. *GIE*, 2011
- Giovannini M. et al. Results of Phase I-II study on Intraductal Confocal Microscopy in Patients with Common Bile Duct Stenosis. *Surgical Endoscopy*, 2011

Pancreatic cysts:

- Konda V.J. et al. A pilot study of in vivo identification of pancreatic cystic neoplasms with needle-based confocal laser endomicroscopy under endosonographic guidance. *Endoscopy*, 2013
- Giovannini M. et al. Feasibility of intratumoral confocal microscopy under endoscopic ultrasound guidance. *Endoscopic Ultrasound*, 2012

- Napoleon B. et al. Needle-based confocal laser endomicroscopy (nCLE) for the diagnosis of pancreatic cystic lesions: preliminary results of the first prospective multicenter study. *Gastroenterology*, 2017
- Napoleon B. et al. Needle-based confocal laser endomicroscopy of pancreatic cystic lesions: a prospective multicenter validation study in patients with definite diagnosis. *Endoscopy*, 2018
- Palazzo M. et al. Impact of needle-based confocal laser endomicroscopy on the therapeutic management of single pancreatic cystic lesions. *Surg Endosc*, 2019

Pancreatic masses:

- Giovannini M. et al. Clinical evaluation of needle-based Confocal Laser Endomicroscopy (nCLE) for the diagnosis of pancreatic masses. Poster at DDW 2013

Lymph nodes:

- Caillol F. et al. Needle-based Confocal Laser Endomicroscopy for the diagnosis of lymph nodes : preliminary criteria (CONTACT study). Oral presentation at UEGW 2013

Colorectal lesions:

- Wallace M. et al. Miami classification for probe-based confocal laser endomicroscopy. *Endoscopy*, 2011
- Shahid M.W. et al. Diagnosis Accuracy of Probe-based Confocal Laser Endomicroscopy (pCLE) in Detecting Recurrence of Colorectal Neoplasia after Endoscopic Mucosal Resection. *GIE*, 2012

Irritable Bowel Syndrome:

- Fritscher-Ravens A. et al. Confocal Endomicroscopy Shows Food-Associated Changes in the Intestinal Mucosa of Patients With Irritable Bowel Syndrome. *Gastroenterology*, 2014
- Fritscher-Ravens A. et al. Many Patients With Irritable Bowel Syndrome Have Atypical Food Allergies Not Associated With Immunoglobulin E. *Gastroenterology*, 2019

Inflammatory Bowel Diseases:

- Kiesslich R. et al. Chromoscopy-guided endomicroscopy increases the diagnostic yield of intraepithelial neoplasia in ulcerative colitis. *Gastroenterology*, 2007
- Kiesslich R. et al. Local Barrier Dysfunction Identified by Confocal Laser Endomicroscopy Predicts Relapse in Inflammatory Bowel Disease. *Gut*, 2011
- Neumann H. et al. Assessment of Crohn's Disease Activity by Confocal Laser Endomicroscopy. *Inflammatory Bowel Diseases*, 2012

Lung diseases:

- Thiberville L. et al. In vivo imaging of the bronchial wall microstructure using fibered confocal fluorescence microscopy. *Am J Respir Crit Care Med*, 2007
- Thiberville L. et al. Human in vivo fluorescence microimaging of the alveolar ducts and sacs during bronchoscopy. *Eur Respir J*, 2009
- Arenberg D.A. et al. Proposed Classification Of Probe-Based Confocal Laser Endomicroscopy (pCLE) Findings For Evaluation Of Indeterminate Peripheral Lung Nodules. *American Journal of Respiratory and Critical Care Medicine*, 2011
- Fuchs F.S. et al. Fluorescein-Aided Confocal Laser Endomicroscopy of the Lung. *Respiration*, 2011

Lung nodules with nCLE:

- Kramer T, *et al.* Bronchoscopic needle-based confocal laser endomicroscopy (nCLE) as a real-time detection tool for peripheral lung cancer. *Thorax*, 2021. doi:10.1136/thoraxjnl-2021-216885
- Wijmans L, *et al.* Needle-based confocal laser endomicroscopy for real-time diagnosing and staging of lung cancer. *Eur Respir J* 2019;53. doi:10.1183/13993003.01520-2018.

Bladder cancer:

- Sonn G.A. et al. Optical biopsy of human bladder neoplasia with in vivo confocal laser endomicroscopy. J Urol, 2009
- Wu K. et al. Dynamic real-time microscopy of the urinary tract using confocal laser endomicroscopy. Urology, 2011
- Liu J. et al. Dynamic Real-time Microscopy of the Urinary Tract Using Confocal Laser Endomicroscopy. Urology, 2011

Miscellaneous:

- Kiesslich R. Diagnostic Value of Endomicroscopy for Gastrointestinal Diseases: New Possibilities and Concepts. Techniques and Innovations in Gastrointestinal Endoscopy, 2020
- Kiesslich R. et al. Confocal Laser Endomicroscopy is an effective and safe diagnostic tool in GI-Endoscopy. Gastroenterology, 2008
- Wallace M.B. et al. The safety of intravenous fluorescein for confocal laser endomicroscopy in the gastrointestinal tract. Aliment Pharmacol Ther, 2010
- Coron E. et al. Endomicroscopie avec fluorescence en pathologie digestive : étude pilote multicentrique française. Gastroentérologie clinique et biologique, 2009

Acknowledgments:

The atlas of videos have been developed with the collaboration of the following experts, among others, and presented in the alphabetic order:

- Jouke T. Annema, MD, Amsterdam UMC, the Netherlands
- Sandeep Bansal, MD, DuBois Regional Medical Center, PA, USA
- Maurizio Brausi, MD, Azienda Unita Sanitaria Locale di Modena, Italy
- Fabrice Caillol, MD, Institut Paoli Calmettes, Marseille, France
- Yang Chen, MD, University of Colorado, Denver, CO, USA
- Philip Chiu, MD, Institut Prince of Wales, Hong Kong.
- Emmanuel Coron, MD, Hotel Dieu Hospital, Nantes, France
- Evelien Dekker, MD, Academic Medical Center, Amsterdam, Netherlands
- Bernard Filoche, MD, St Philibert hospital, Lomme, France
- Jean-Paul Galmiche, MD, Hotel Dieu Hospital, Nantes, France
- Marc Giovannini, MD, Paoli Calmettes Institute, Marseille, France
- Kyle Hogarth, MD, University of Chicago Medical Center, IL, USA
- Robert Holladay, MD, Louisiana State University Hospital, Shreveport, LA, USA
- Virendra Joshi, MD, Oschner Medical Center, Kenner, LA, USA
- Ralf Kiesslich, MD, Helios HSK Wiesbaden, Wiesbaden, Germany
- Tess Kramer, MD, Amsterdam UMC, the Netherlands
- Changqing Li, MD, Qilu hospital, Jinan, Shandong, China
- Yan Qing Li, MD, Qilu hospital, Jinan, Shandong, China
- Zhen Li, MD, Qilu hospital, Jinan, Shandong, China
- Joseph Liao, MD, Stanford University, Stanford, CA, USA
- Charles Lightdale, MD, Columbia-Presbyterian Medical Center, New York, NY, USA
- Damien Lucidarme, MD, St Philibert hospital, Lomme, France
- Alexander Meining, MD, Klinikum rechts der isar, Munich, Germany
- Bertrand Napoléon, MD, Jean Mermoz Private Hospital, Lyon, France
- Rapat Pittayanon, MD, Chulalongkorn hospital, Bangkok, Thailand

- Douglas Pleskow, MD, Beth Israel Deaconess Medical Center, Boston, MA, USA
- Bertrand Pujol, MD, Jean Mermoz Private Hospital, Lyon, France
- Thomas Rösch, MD, University Medical Center Hamburg-Eppendorf, Hamburg, Germany
- Prateek Sharma, MD, VA Kansas City, MO, USA
- Adam Slivka, MD, University of Pittsburgh Medical Center, Pittsburgh, PA, USA
- Peter Stevens, MD, Columbia-Presbyterian Medical Center, New York, NY, USA
- Luc Thiberville, MD, Rouen University Hospital, Rouen, France
- Adam Wellikoff, MD, Louisiana State University, Shreveport, LA, USA
- Lizzy Wijmans, MD, Amsterdam UMC, the Netherlands
- David Wilson, MD, Columbus regional hospital, Columbus, IN, USA
- Wei Wu, MD, Ruijin Hospital/Shanghai Jiaotong University of Medicine, Shanghai, China

The Smart Atlas assistance in the image interpretation quizzes has partially been developed within the collaborative effort of the [Inria Innovation Lab SIWA](#) between the Asclepios research-team at Inria and Mauna Kea Technologies.