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Imaging enhanced endoscopy: A practical approach

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Image enhanced endoscopy (IEE) is a combination of different advanced endoscopic methods which help to provide optical real time diagnosis for the luminal lesions. Traditional biopsy may have a disadvantage of sampling error since biopsy usually provide a small portion of lesion except the total excisional biopsy provided by small advanced excisional technique e.g, endoscopic submucosal dissection. Methods for IEE in general included special lighting e.g, narrow band imaging or blue laser imaging, both optical or digital magnification, chromoendoscopy and endoscopic ultrasound. Although different sites in luminal tract will have differences in terms of interpretation of IEE. In general, the purpose of IEE is to provide an optical diagnosis for a specific lesion regarding of the nature of lesion i.e., benign or malignant, and if the lesion is likely to have malignant component, the information about the depth of invasion can be provided. The approach of IEE start with the macroscopic appearance of the lesion in term of the color, shape, surface, consistency. The surface pattern and vascular pattern under the special light or chromoendoscopy are then observed to provide more information of the nature of the lesion and depth of invasion. Endoscopic ultrasound can provide more details of the depth of invasion. Good quality IEE is a must before any endoscopic treatment for the luminal lesion especially in the era of endoscopic submucosal dissection for good case selection.

Biography

Lui Ka Luen completed his Graduation from University of Hong Kong in 2004 with distinction in Medicine. He became a Specialist in Gastroenterology in 2012 in Hong Kong and awarded Fellow of Hong Kong College of Physician in 2012. Then, he further pursued his career in "Imaging enhanced endoscopy, endoscopic ultrasound, endoscopic submucosal dissection and submucosal tunnel dissection" in Japan under direct mentorship of Professor Takashi Toyonaga. He is now an Honorary Clinical Assistant Professor at Chinese University of Hong Kong. He also published paper and is an invited speaker in various local and international journals, conferences and meetings.

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