



Endoscopic submucosal dissection for nonpolypoid colorectal dysplasia in patients with inflammatory bowel disease: in medias res

The implementation of the Surveillance for Colorectal Endoscopic Neoplasia Detection and Management in Inflammatory Bowel Disease (IBD) Patients: International Consensus Recommendations (SCENIC) is under way.¹ The recommendations are being incorporated into practice.² The chromoendoscopy and targeted biopsy technique continues to be disseminated in gastroenterology meetings. Training sessions² and methods to perform chromoendoscopy and targeted biopsy have been conducted and described, respectively.^{3,4} The SCENIC publications are well referenced. The SCENIC classification of superficial dysplasia (Fig. 1) has been used in many newly published studies, replacing the terms “dysplasia-associated” mass or lesion, “adenoma-like,” and “non-adenoma-like.”⁵ An image atlas⁶ and videos of how to perform chromoendoscopy and targeted biopsy^{7,8} are freely available.

In this issue of *Gastrointestinal Endoscopy*, we are particularly pleased that Kinoshita et al⁹ fill, in part, the gap in the literature on the potentials of endoscopic resection in the management of nonpolypoid colorectal dysplasia (NP-CRD). Their publication is needed for the full implementation of SCENIC. Although the SCENIC recommendations include the following statement, “After complete removal of endoscopically resectable nonpolypoid dysplastic lesions, surveillance colonoscopy is suggested rather than colectomy,” the authors of SCENIC recognized that the quality of evidence was very low. In addition, they were cognizant that NP-CRD could confer a higher risk of colorectal cancer (CRC) and that removal of NP-CRD could be more technically difficult, requiring EMR or endoscopic submucosal dissection (ESD).^{10,11}

The detection of NP-CRD is the first step in the prevention of CRC in patients with IBD. Thus, these lesions must be detected early and completely, and preferably they are amenable to endoscopic resection.¹² To achieve early detection, we need the right mindset: a mindset that is open to the idea that NP-CRD can occur in all patients with colonic IBD and that chromoendoscopy enhances

the yield to detect it. For example, 20% of the patients in the study by Kinoshita et al⁹ had disease limited to the left side of the colon. The patients also had widely variable lengths of colitis.

In the context of detecting NP-CRD, the indigo carmine and methylene blue dyes function as contrast agents, which enhance the appearance of the lesions (Fig. 2). The dye highlights the border of the lesion by pooling at its periphery. In addition, the dye fills the innominate

The need for ESD to remove large sessile lesions and NP-CRD poses a major problem to patients with colonic IBD in many Western countries because ESD has not become universally available. There are, however, reasons to be optimistic.

grooves (the fine mucosal creases) of the colon mucosa. Because NP-CRD lesions interrupt the innominate grooves, the borders of NP-CRD can be traced to where the grooves suddenly end. The dye makes the morphology of the lesion stand out by pooling into depressions or ulcerations.¹³

The differential staining between the NP-CRD and the surrounding tissue allows us to better visualize the lesion itself (Fig. 3). The NP-CRD appears redder, whereas the surrounding area is bluer. This phenomenon, which we call the red-in-blue sign, probably occurs because dysplasia often has shallower and narrower glands. In addition, it is likely that the slight elevation contributes to the lesion having less dye on its surface. Although we use it in our practice, at present, unfortunately, the sensitivity and specificity of this red-in-blue sign has not been described.

Historically, detailed analysis of the pit patterns of colorectal lesions by the use of chromoendoscopy and interpretation of a lesion’s histologic features has been based on the classification by Kudo et al.¹⁴ The criteria were developed primarily from observations of surface patterns in noncolitic colorectal lesions. However,

SCENIC Endoscopic Classification of Superficial Colorectal Dysplasia in IBD

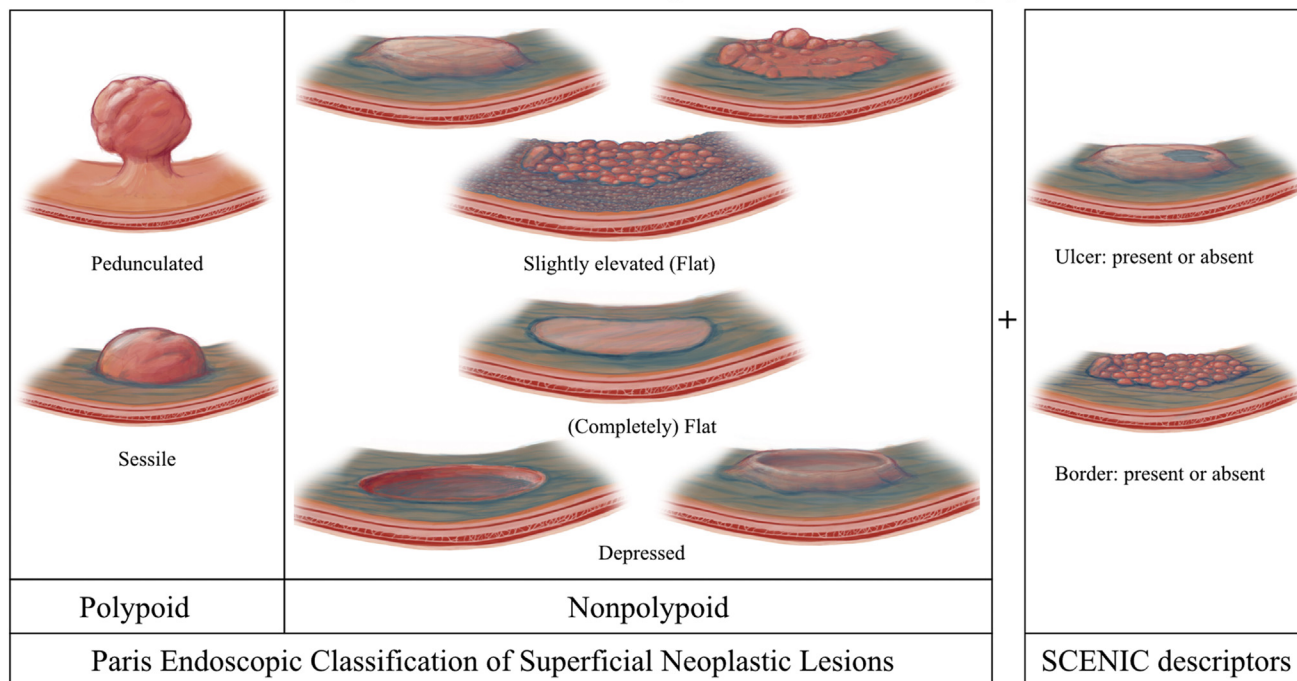


Figure 1. Surveillance for Colorectal Endoscopic Neoplasia Detection and Management in Inflammatory Bowel Disease Patients: International Consensus Recommendations (SCENIC) endoscopic classification of superficial colorectal dysplasia in patients with inflammatory bowel disease (IBD). The classification is a modification of the Paris endoscopic classification of superficial neoplastic lesions. The modifications included the addition of terms (presence or absence) to describe ulceration and border of the lesion. The SCENIC classification replaces the terms dysplasia-associated lesion or mass and adenoma-like and non-adenoma-like. Note that in patients with IBD, the nonpolypoid colorectal dysplasia in IBD is often completely flat (or the same level) compared with the surrounding mucosa. This is different from patients without IBD, who rarely have completely flat dysplasia. Thus, in patients without IBD “flat lesion” is colloquially used to describe lesions that are slightly (superficially) elevated in comparison with the surrounding mucosa. Descriptions of the terms are listed below.

| Term | Description |
|----------------------|--|
| Visible dysplasia | Dysplasia identified on targeted biopsy specimens from a lesion visualized at colonoscopy |
| Polypoid | Lesion protruding from the mucosa into the lumen ≥ 2.5 mm |
| Pedunculated | Lesion attached to the mucosa by a stalk |
| Sessile | Lesion not attached to the mucosa by a stalk; entire base is contiguous with the mucosa |
| Nonpolypoid | Lesion with little (<2.5 mm) or no protrusion above the mucosa |
| Superficial elevated | Lesion with protrusion but <2.5 mm above the lumen (less than the height of the closest cup of a biopsy forceps) |
| Flat | Lesion without protrusion above the mucosa |
| Depressed | Lesion with at least a portion depressed below the level of the mucosa |
| General descriptors | |
| Ulcerated | Ulceration (fibrinous-appearing base with depth) within the lesion |
| Border | |
| Distinct border | Lesion’s border is discrete and can be distinguished from surrounding mucosa |
| Indistinct border | Lesion’s border is not discrete and cannot be distinguished from surrounding mucosa |
| Invisible dysplasia | Dysplasia identified on random (nontargeted) biopsy specimens of colon mucosa without a visible lesion |

Modified from Soetikno et al, *Dig Endosc* 2016;28:266-73, and Laine et al, *Gastrointest Endosc* 2015;81:489-501e26.

colorectal lesions in patients with IBD have proved a challenge to interpret. Kinoshita et al⁹ and others showed that applying the classification by Kudo et al¹⁴ in the evaluation of NP-CRD in patients with IBD was as

good as a coin flip in predicting low-grade dysplasia, (ie, approximately one half of the lesions they diagnosed by endoscopy to be low grade were actually high-grade dysplasia or cancer).⁴ A recent image analysis study of

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