Colonoscopic screening and surveillance programs have been implemented in many countries and they have reduced colorectal cancer (CRC)-related deaths. However, this reduction was significantly noted in distal CRC, not in proximal CRC, and some patients may develop unexpected CRC within 3–5 years of colonoscopy. Interval CRCs, which have a prevalence ranging from 1.8% to 9.0%, are CRCs that are diagnosed after a screening or surveillance examination and before the date of the next recommended exam. It is known that interval CRCs are more common in the proximal colon than in the distal colon.\(^1\) Research regarding the molecular profiles of interval CRCs and serrated lesions have identified a molecular similarity between the interval CRCs and the pathway for serrated adenoma carcinogenesis. Due to the sessile or flat features associated with these lesions, preference for right colon and molecular features of sessile serrated adenomas/polyps (SSA/Ps), SSA/Ps have been getting attention for their clinical importance in interval CRCs.\(^2,3\)

Despite advancement in imaging systems and some known endoscopic features characteristic of SSA/Ps, the detection and accurate identification of SSA/Ps during colonoscopy is challenging to the colonoscopist.

In this issue of *Clinical Endoscopy*, Yang et al.\(^4\) validated previously reported endoscopic features of SSA/Ps and identified features that can be reliably used for SSA/P prediction by experts and trainees. The endoscopic features of SSA/Ps in this study are: indistinct borders, irregular shape, rim of debris, cloud-like surface, mucous cap, nodular surface, absence of surface vessels, and dark spots. Among these eight features, four included independent predictive features for SSA/P histology (indistinctive borders, mucous cap, cloud-like surface and dark spots). Additionally, three of these four features showed moderate interobserver agreement among experts and trainees (the exception being dark spots). These three characteristics rendered 79.0% sensitivity and 81.4% specificity for SSA prediction using high resolution white light endoscopy.

With regards to the method of this study, I noticed an interesting point. Yang et al.\(^4\) held a training session and consensus meeting before the validation of the endoscopic features. This process might be the major reason why the interobserver agreement among trainees was not inferior to that of experts. Therefore, setting up courses that include a training session and consensus meeting might be helpful for trainees, not only for SSA/Ps but also for other lesions. Although the suitable degree of interobserver agreement in trainees in this study could not be applied to other medical centers which have not set-up the courses, the three simple endoscopic features could easily be used and prove to be helpful for colonoscopy training elsewhere.
Characteristic histologic features of SSA/P are a saw-tooth appearance involving the entire length of the crypt, dilated and/or branched crypts, horizontal extensions of the crypt bases, and herniation of crypts through the muscularis mucosa.

Despite these well-established and generally accepted histologic features, there is substantial interobserver variation among pathologists in the diagnosis of SSA. Furthermore, there is some disagreement regarding the definition of SSA/P. In the World Health Organization (WHO) classification, diagnosis of SSA is made when there are two or more contiguous SSA-type crypts, where, the Japanese Society for Cancer of the Colon and Rectum (JSCCR) defined an SSA as at having least two SSA-type crypts in ≥10% of the area of the lesion. In addition, review and recommendations from an expert panel specify that the presence of at least one unequivocal SSA-type crypt is sufficient for a diagnosis of SSA/P.

In this study, the histologic diagnosis of SSA/P was made using the WHO criteria. If the definition of histologic diagnosis of SSA/P was changed to other criteria, the results of this study might be also influenced.

As seen in this and other studies, it is unsatisfactory to identify SSA/Ps using characteristic endoscopic features. However, there are several reasons why we must make a steadfast endeavor to differentiate SSA/Ps from non SSA/Ps. First, the suspicion or identification of SSA/Ps during colonoscopy enables the colonoscopist to give more information to the pathologist. In cases of superficial biopsies or electrocautery artifacts, this information would be helpful. Second, when multiple SSA/Ps are suspected during colonoscopy, a more accurate diagnosis of serrated polyposis syndrome, which has been under-recognized and consequently under-managed, could be made.

Given the substantial interobserver variation among pathologists in the differentiation of SSA/Ps from hyperplastic polyps, and the risk for carcinogenesis of SSA/Ps, we should consider proximal serrated lesions >1 cm in size to be SSA/Ps. Therefore, an effort to find serrated lesions should be emphasized in current clinical practice rather than to simply identify the SSA/Ps.

In the future, the importance of identification of the SSA/Ps will be markedly emerging.

Conflicts of Interest

The author has no financial conflicts of interest.

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