Sessile serrated adenoma/polyps (SSA/Ps) are early precursor lesions in the serrated neoplasia pathway. Some of these lesions can rapidly become dysplastic or invasive carcinomas that exhibit high lymphatic invasion and lymph node metastasis potentials. Detecting serrated lesions, including SSA/Ps with and without dysplasia/carcinoma, is challenging. Unlike hyperplastic polyps, SSA/Ps are more frequently larger than 5 mm, and the question raised here is whether diminutive Serrated lesions (<5 mm) really exist?

Of course, detection of these SSAP despite virtual chromoendoscopy is much more difficult than detection of adenomas. This may be partly explained by the minimum size requirement of 5 mm for detection of discrete mucosal and vascular changes. On the other hand, our endoscopes have improved considerably [1], our capacities to detect small lesions have also improved, indigo carmine makes it easier to detect very small abnormal areas and yet, it must be said that we do not often find diminutive SSAP, including in sessile serrated polyposis. How can this inconsistency be explained?

Is the development of SSAP so rapid initially with intense cell multiplication that the period during which the lesions are <5 mm is too short for us to detect them lesions? When several colonoscopies are performed successively in patients, there is no major increase in the size of the lesions in a few months, and very rapid extension initially followed by a slow-down in growth is not supported by histological findings.

Is there initial lateral development of the deep lesion of the crypts before the anomaly appears on the surface of the glands? For this second hypothesis, we would then have to find histologically larger lesions at depth than at the mucosal surface, resembling an iceberg. However, cell division in SSAPs occurs at the bottom of the crypt, lesion size at the deep part of the mucosa is identical to the surface area (Fig. 1c, Fig. 1d).

Finally, there do not seem to be any histological arguments to support deep initial development of the lesion, therefore, it must be recognized that these lesions exist but our ability to detect them is compromised. First, at an early stage, a diminutive SSAP appears thin and therefore translucent, allowing the vasculature of the underlying colonic wall [2] to be seen through that transparency (Fig. 1). In such cases, interruption of the background vascular relief, with its subtle color and texture anomalies, cannot be relied upon as a way for the eye to detect a lesion. The lesion presented here is barely visible because it is so thin (Fig. 1). Indigo carmine dye could improve detection of such small lesions, as previously demonstrated in sessile serrated polyposis, and virtual chromoendoscopy can help characterize tiny lesions (Fig. 2) [3].

In conclusion, because we were entrusted with writing of this editorial, we have detected multiple diminutive SSAP that we didn’t believe we were finding before. They therefore exist.
but represent a huge detection challenge and could become a quality criterion for defining super-detecting endoscopists in the future.

**Competing interests**

Dr. Pioche has received fee for training people in optical diagnosis by Olympus.

**References**


**Fig. 1** Diminutive SSAP with thin aspect. a White light imaging with subtle color and texture anomalies. b NBI imaging with thin aspect. c, d Histological confirmation of the serrated component.

**Fig. 2** Diminutive SSAP in BLI and Indigo carmine dye.

**Fig. 3** Different examples of diminutive SSAP. a, b White light and NBI imaging of a 5-mm SSAP with low mucus production. c, d SSAP of 3 mm without any mucus cap.