Duodenal metastasis of malignant melanoma observed by magnification endoscopy

A 77-year-old man whose right great toe had been amputated 3 years previously due to malignant melanoma underwent endoscopy because he was anemic. Multiple black, depressed lesions (1–5 mm in diameter) with a “bull’s eye” appearance were viewed in the descending duodenum (Fig. 1). Under magnification, the surface of these lesions was smooth (Fig. 2 and 3), and histological examination of a biopsy specimen (Fig. 4) revealed tumor cells full of brown pigment (Fig. 5). Additional sites of metastasis were found in the ascending colon (by colonoscopy) and in the pulmonary hilar lymph node (by CT). Because of appetite loss, the patient underwent gastrointestinal endoscopy again 2 months later. Increased numbers of black, depressed lesions were seen, larger than before, and tiny black spots viewed under magnification showed a similar smooth surface (Fig. 6).

Although malignant melanoma is the most common source of metastasis to the gastrointestinal tract, the features of these metastases as viewed by magnification endoscopy have not been reported.

Fig. 1 Endoscopy showed a black, depressed-type tumor in the descending duodenum. It had a “bull’s eye” appearance.

Fig. 2 Magnification endoscopy revealed the smooth surface of the lesion and the surrounding villi.

Fig. 3 Very smooth surface of the lesion as shown by magnification endoscopy.

Fig. 4 Photomicrograph of biopsy specimen showing the very smooth surface of the tumor (arrows) (H&E, × 40).

Fig. 5 Photomicrograph of biopsy specimen showing that many malignant melanoma cells had a large amount of brown pigment (H&E, × 100).
py may be useful, prior to biopsy, for distinguishing features of gastrointestinal metastases of malignant melanoma, such as duodenal melanosis and pseudomelanosis.

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Fig. 6 Magnification endoscopy revealed that a tiny black spot had a smooth surface.

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References

Bibliography
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