Successful endoscopic diagnosis and treatment of blue rubber bleb nevus syndrome

A young man presented with a two-year history of recurrent melena. Several dark-blue elevated skin lesions had been on his right hand and head (▶ Fig. 1). The nodules were soft and compressible, and some of them seemed to have lacunae divided by white linear structures. Pathologic examination after a surgical resection two years ago confirmed the lesions as “cavernous hemangioma.” No one in his immediate family had a related vascular malformation. His hemoglobin level was 56 g/L (severe anemia), and the other related tests and physical examinations were unremarkable.

Images of magnetically controlled capsule gastroscopy also showed multiple congested, nodular lesions in the esophagus (▶ Fig. 2) and small intestine (▶ Fig. 3), and ultrasound endoscopy showed a gastric submucosal eminence lesion caused by compression from a swollen spleen. Some bleeding lesions were also recorded by magnetically controlled capsule gastroscopy (▶ Fig. 4).

Other congenital vascular malformation syndromes were excluded and the diagnosis of blue rubber bleb nevus syndrome was adopted. The patient was treated with supportive care and blood transfusions for severe anemia. Endoscopic sclerotherapy (polidocanol injection) for esophageal and small intestinal varices was conducted to prevent gastrointestinal rebleeding (▶ Fig. 5,▶ Video 1).

During the subsequent follow-up for half a year, he never manifested anemia again. Blue rubber bleb nevus syndrome is a rare syndrome of multiple venous malformations of the gastrointestinal tract, skin, and other visceral organs [1]. Multiple blue to violaceous soft compressible nodules on the skin or mucous membranes usually present in early childhood. Moreover, patients are at increased risk for gastrointestinal hemorrhage and severe iron deficiency anemia.

Nowadays, various endoscopic treatments including sclerotherapy, band ligation, or laser photocoagulation have been suggested for gastrointestinal lesions. Children and adolescents may benefit from the simple and relatively non-invasive interventions. Surgical operations may be necessary if the gastrointestinal hemorrhage is life-threatening [2].
Competing interests

The authors declare that they have no conflict of interest.

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