Underwater endoscopic mucosal resection of colon hemangiomas compatible with the blue rubber bleb nevus syndrome, following endoscopic ultrasonography

Blue rubber bleb nevus syndrome (BRBNS) is a rare congenital disease with venous malformations on the skin and in the gastrointestinal tract. Gastrointestinal venous malformations frequently cause bleeding and/or iron deficiency anemia [1]. Endoscopic approaches such as endoscopic mucosal resection [2], electrocoagulation, sclerotherapy, and ligation [3] have been reported for the treatment of symptomatic gastrointestinal hemangiomas associated with BRBNS. Recently, underwater endoscopic mucosal resection (UEMR) has rapidly become a game-changing technique for endoscopic polyp resection. UEMR is usually simpler, cheaper, and more reliable than other conventional endoscopic resection techniques. When endoscopic ultrasonography (EUS) is performed prior to UEMR, EUS can allow prediction of the safety and reliability of UEMR because lesion characteristics such as depth, blood vessels, and echodensity are evaluated [4]. We illustrate a case in which colon hemangiomas compatible with BRBNS were resected endoscopically using UEMR.
A 35-year-old man was referred for evaluation of a blue polyp in the cecum and another in the transverse colon found on colonoscopy after a positive fecal immunochemical test. The patient had undergone surgical resection of skin hemangiomas on his right leg at 1 and 4 years of age. Outpatient colonoscopy in our institution revealed elevated blue lesions, one in the cecum and one in the transverse colon. Magnifying narrowband light examination (EC-760ZP-W/M, Fujifilm, Tokyo, Japan) with a distal attachment (D-201-14304, Olympus, Tokyo, Japan) using blue-light imaging did not show the typical vascular pattern of a neoplasm but showed a normal surface pattern. The characteristics were classified as type 1 (Japan NBI Expert Team classification), consistent with a gastrointestinal lesion of blue rubber bleb nevus syndrome. The margin of the hemangioma was negative.

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