

## Endoscopic management of blue rubber bleb nevus syndrome in the colon with hemostatic clamp and snare

A 24-year-old woman presented having had soft, blue nodules on the palm of her hand (► **Fig. 1**), lower limbs, and feet since birth. The number and size of the lesions had increased a little as she had grown up. She had suffered repeated episodes of intermittent melena or tarry stools since the age of 10 years, which had been accompanied by symptoms of pallor, dizziness, fatigue, and anorexia. In the year before, the frequency of her episodes of hematochezia had increased and her other symptoms had worsened. Gastroscopy revealed no abnormality, but colonoscopy revealed multiple hemangiomas in the colon (► **Fig. 2a**), ranging in size from 0.3 cm to 2.0 cm. Hemostatic clamp electrocoagulation was used to treat the lesions that were less than 0.5 cm in diameter; lesions larger than 0.5 cm in diameter were resect-



► **Fig. 1** A soft, blue nodule in the palm of the hand.

noscopy revealed that the original treatment site had healed well and there was no evidence of recurrent hemangiomas (► **Fig. 2b**).

Histopathology of the resected lesions (► **Fig. 3**) confirmed the diagnosis of blue rubber bleb nevus syndrome (BRBNS), which was first described in 1958 by Bean. BRBNS is a rare disease, mainly affecting the skin and digestive tract [1]. Gastrointestinal bleeding is the main risk to the patient; there are no standard treatments at present. For lesions located in the digestive tract, argon plasma coagulation [2], sclerotherapy [3], endoscopic polypectomy [4], endoscopic submucosal dissection, and surgery [5] can all be considered according to the size and extent of the lesions. Close follow-up is needed as there is a possibility of recurrence.

Endoscopy\_UCTN\_Code\_CCL\_1AD\_2AF



► **Video 1** Hemostatic clamp electrocoagulation is used to treat a hemangioma of less than 0.5 cm in diameter. A snare is used to resect a hemangioma larger than 0.5 cm in diameter, without submucosal injection; soft coagulation mode was used during the resection.

ed with a snare (► **Video 1**). Twelve lesions were treated in total. There was no bleeding or perforation; the patient remained stable and was discharged un-

eventfully. Following her endoscopic treatment, the patient has not experienced any further episodes of melena during 1 year of follow-up. A repeat colo-

### Competing interests

None

### The Authors

**Chuncheng Wu<sup>\*</sup>, Rong Luo<sup>\*</sup>, Xiaoqing Li, Bing Hu**

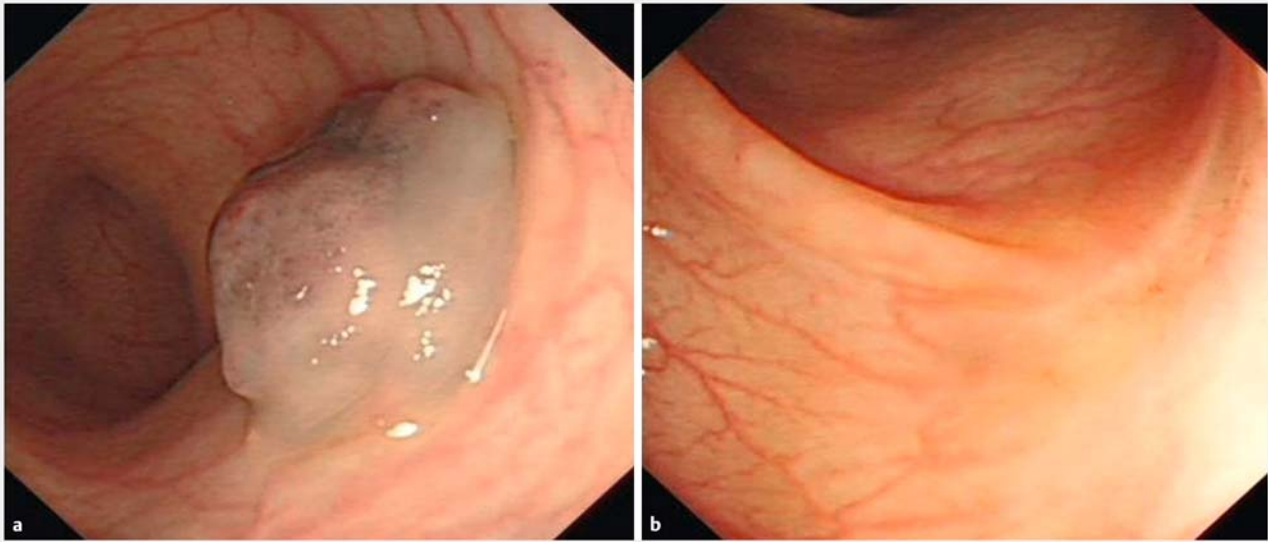
Department of Gastroenterology, West China Hospital, Sichuan University, Chengdu, China

### Corresponding author

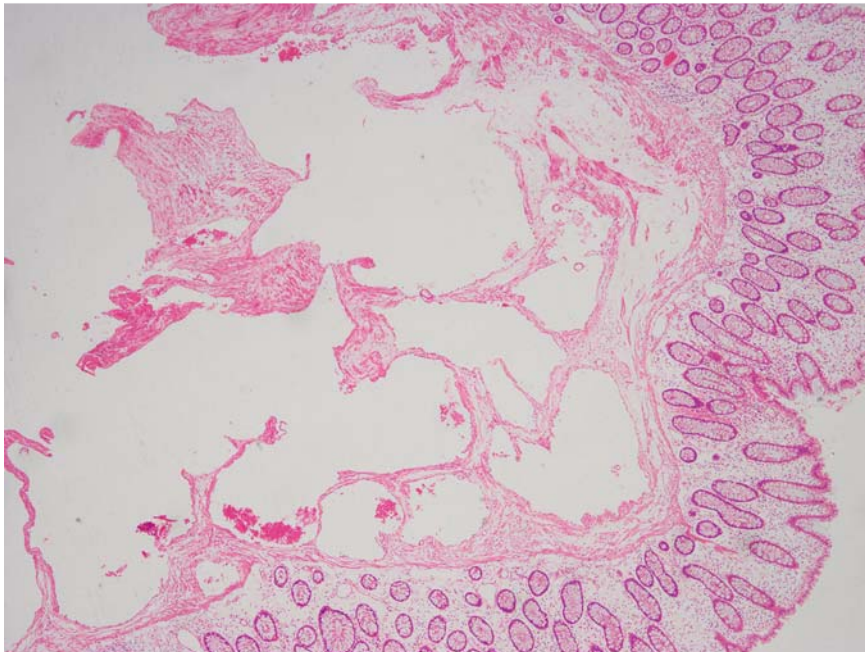
**Bing Hu, MD**

Department of Gastroenterology, West China Hospital, Sichuan University, No. 37 Guo Xue Alley, Chengdu 610041, Sichuan Province, China  
hubingnj@163.com

\* Joint first authors



► **Fig. 2** Colonoscopy images showing: **a** a hemangioma in the colon; **b** the original treatment site, which was well healed with no recurrent hemangioma on follow-up.



► **Fig. 3** Histopathology of one of the resected lesions showing a venous malformation, confirming the diagnosis of blue rubber bleb nevus syndrome.

#### Bibliography

DOI <https://doi.org/10.1055/s-0043-106044>  
 Endoscopy 2017; 49: E149–E150  
 © Georg Thieme Verlag KG  
 Stuttgart · New York  
 ISSN 0013-726X

#### ENDOSCOPY E-VIDEOS

<https://eref.thieme.de/e-videos>



*Endoscopy E-Videos* is a free access online section, reporting on interesting cases and new

techniques in gastroenterological endoscopy. All papers include a high quality video and all contributions are freely accessible online.

This section has its own submission website at

<https://mc.manuscriptcentral.com/e-videos>

#### References

- [1] Beck PL, Aspinall AI, Kilvert VM et al. Blue rubber bleb nevus syndrome. *Gastrointest Endosc* 2002; 56: 598–600
- [2] Ng EK, Cheung FK, Chiu PW. Blue rubber bleb nevus syndrome: treatment of multiple gastrointestinal hemangiomas with argon plasma coagulator. *Dig Endosc* 2009; 21: 40–42
- [3] Mavrogenis G, Coumaros D, Tzilves D et al. Cyanoacrylate glue in the management of blue rubber bleb nevus syndrome. *Endoscopy* 2011; 43: E291–E292
- [4] Emami MH, Haghani S, Tavakkoli H et al. Endoscopic polypectomy resection of blue rubber bleb nevus lesions in small bowel. *Indian J Gastroenterol* 2008; 27: 165–166
- [5] Fishman SJ, Smithers CJ, Folkman J et al. Blue rubber bleb nevus syndrome: surgical eradication of gastrointestinal bleeding. *Ann Surg* 2005; 24: 523–528