GE – Portuguese Journal of Gastroenterology

GE Port J Gastroenterol 2022;29:73–74 DOI: 10.1159/000514010 Received: October 3, 2020 Accepted: December 8, 2020 Published online: February 3, 2021

An Unusual Cause of Anemia: Throwing the Cat among the Pigeons

Rui Mendo Rita Barosa Pedro Figueiredo Cristina Chagas

Department of Gastroenterology, Centro Hospitalar Lisboa Ocidental, Hospital de Egas Moniz, Lisbon, Portugal

Keywords

Blue rubber bleb nevus syndrome · Anemia

Uma causa incomum de anemia: atirando o gato para entre os pombos

Palavras Chave Síndrome blue rubber bleb nevus · Anemia

An 80-year-old leukodermic man presented with iron deficiency anemia (hemoglobin 10.4 g/dL; mean corpuscular volume [MCV] 75 fL; serum ferritin 15 ng/ mL) His past history included arterial hypertension and atrial fibrillation. Medication history included dabigatran. The patient had no history of non-steroidal antiinflammatory drug use, peptic ulcers, or chronic liver disease. No relevant family history was recorded. He denied having recurrent epistaxis or overt gastrointestinal bleeding. He underwent an esophago-gastroduodenoscopy and colonoscopy as part of the workup for iron deficiency anemia; these were unrevealing. He then underwent capsule endoscopy; multiple, protruding, nodular, bluish lesions were found in the small bowel (Fig. 1, 2) without active bleeding. Given the clinical and endoscopic features, his medical records were reviewed, and a previous dermatology appointment was found where multiple, violaceous, compressible, nonpulsatile nodular lesions were described on the skin

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BRBNS (or Bean's disease) is a rare disease mainly characterized by multiple venous malformations that can affect any organ system, but frequently affecting the cutaneous and gastrointestinal systems [1–3]. The etiology and pathogenesis remain uncertain [1, 3]. The majority of cases are sporadic, although autosomal inheritance has been identified associated with the chromosome 9p [1, 2]. The diagnosis is based on the presence of characteristic venous malformations, and up to 87% of patients have multiple organ involvement [1]. Lesions are often present from birth or may develop during childhood; however, 4% of cases present during adulthood [1]. The cutaneous lesions are characteristically rubbery, soft, and easily compressible (they promptly refill after compression) [1, 2]. Gastrointestinal lesions are mostly found in the small bowel and distal large bowel, and are typically bluish nodules [1, 2]. Individuals with gastrointestinal involvement typically present with gastrointestinal bleeding or iron deficiency anemia [1, 2, 4]. The treatment of this syndrome is usually conservative and should be guided by the topography of the vascular lesions and disease severity [1, 2, 4]. Accordingly, if needed, gastrointestinal lesions can be managed with endoscopic therapy or surgery [1, 2, 4]. Cutaneous lesions, on the other hand, generally

Rui Mendo Department of Gastroenterology

mendorui@gmail.com

Centro Hospitalar Lisboa Ocidental, Hospital de Egas Moniz PT–1349-019 Lisbon (Portugal)

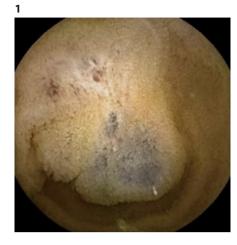


Fig. 1. Multiple protruding, nodular, bluish lesions throughout the small bowel.



Fig. 2. Multiple protruding, nodular, bluish lesions throughout the small bowel.



Fig. 3. Multiple violaceous, compressible, and nonpulsatile nodular cutaneous lesions.

do not require treatment [1]. Finally, systemic medical treatment with antiangiogenic agents like sirolimus have been successfully used as a rescue treatment [1, 5]. In this particular case, the beginning of anticoagulation might have been the key for the diagnosis of this late-onset BRBNS since it might have triggered a common manifestation of BRBNS. We emphasize the utmost importance of considering the full medical history as well as a physical examination, in order to provide an adequate endoscopic diagnosis, especially when considering systemic disorders involving the gastrointestinal tract.

Statement of Ethics

The authors have no ethical conflicts to disclose. Informed consent was obtained from the patient for the publication of their information.

Conflict of Interest Statement

The authors have no conflicts of interest to declare.

Funding Sources

There was no funding.

Author Contributions

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R.M.: acquisition, analysis, and interpretation of data and drafting of the manuscript. R.B., P.F., and C.C.: critical revision of the manuscript for important intellectual content and final approval of the manuscript.

References

- 1 Jin XL, Wang ZH, Xiao XB, Huang LS, Zhao XY. Blue rubber bleb nevus syndrome: a case report and literature review. World J Gastroenterol. 2014 Dec;20(45):17254–9.
- 2 Dwivedi M, Misra SP. Blue rubber bleb nevus syndrome causing upper GI hemorrhage: a novel management approach and review. Gastrointest Endosc. 2002 Jun;55(7):943–6.
- 3 Gião Antunes AS, Peixe B, Guerreiro H. Blue rubber bleb nevus syndrome: A delayed diagnosis. GE Port J Gastroenterol. 2017 Mar; 24(2):101–3.
- 4 Arena M, Virdis M, Morandi E, Viaggi P, Pisani A, Opocher E, et al. Blue rubber bleb nevus syndrome: combined surgical and endoscopic treatment. Endoscopy. 2015;47(S 01 Suppl 1 UCTN):E372–3.
- 5 Cardoso H, Dias JA, Silva M, Vilas-Boas F, Trindade E, Tavares M, et al. 'Education and Imaging. Gastrointestinal: successful treatment with sirolimus of a patient with blue rubber bleb nevus syndrome. J Gastroenterol Hepatol. 2016 Mar;31(3):519.