Blue Rubber Bleb Nevus Syndrome: A Delayed Diagnosis

Artur Sérgio Gião Antunes  Bruno Peixe  Horácio Guerreiro
Gastroenterology Department, Centro Hospitalar do Algarve, EPE, Faro, Portugal

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Síndrome de Blue Rubber Bleb Nevus: Um Diagnóstico Tardio

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An 80-year-old woman was referred to our department following a positive fecal occult blood test. From her medical record, we noted a long-standing rheumatoid arthritis. She was chronically treated with methotrexate, prednisolone, and pantoprazole. No relevant family history was recorded.

Physical examination revealed multiple nonpulsatile nodular purplish lesions on her lips and tongue surface, easily compressible and promptly refilled afterwards (Fig. 1). The lesions were present since childhood and although they grew in size, they only troubled the patient in rare episodes of self-limiting bleeding secondary to trauma. Laboratory tests were normal. She underwent a colonoscopy and an upper endoscopy and we noticed multiple purplish lesions of similar characteristics in the rectum (Fig. 2), hypopharynx, and esophagus (Fig. 3), without stigmata of recent hemorrhage, but not in the colon, stomach, or duodenum. The characteristics of these lesions were consistent with hemangiomas. Small-bowel video capsule endoscopy also revealed multiple hemangiomas in the jejunum and distal ileum.

We assumed the diagnosis of a multifocal venous vascular malformation, with cutaneous and gastrointestinal involvement. A computed tomography of the brain, chest, abdomen, and pelvis was performed, showing no other vascular malformations or bone deformities with the exception of those in the cervical spine consistent with rheumatoid arthritis.

Given the clinical and imagiological features, we established the diagnosis of a sporadic type of blue rubber bleb nevus syndrome (BRBNS). BRBNS is a rare syndrome and should be considered in the presence of multifocal
hemangiomas, preferably in the skin and gastrointestinal tract. BRBNS should be differentiated from other syndromes that occur with cutaneous and visceral vascular malformations, like Rendu-Osler-Weber, Klippel-Trenaunay, and Maffucci syndromes. Its pathogenesis is poorly understood. A family association has already been identified (linked to chromosome 9p), although sporadic type is the commonest. In most cases, hemangiomas are

Fig. 1. Multiple purplish lesions on the lips and tongue.

Fig. 2. Multiple purplish lesions in the rectum.

Fig. 3. Multiple purplish lesions in the esophagus.
asymptomatic and symptoms are usually the result of its mass effect or rupture with bleeding [1–4].

There is no standard of care for BRBNS. Its treatment should be determined by the topography of lesions and the severity of the disease. In cases of minor or intermittent bleeding, conservative treatment with iron supplementation and blood transfusions are usually enough. In cases of significant bleeding or other complications such as rupture, intestinal torsion, and intussusception, surgical resection or endoscopic sclerosis and laser photocoagulation endoscopic treatment should be considered. Antiangiogenic agents such as corticosteroids, propranolol, interferon-α, octreotide, and sirolimus were successfully used as rescue treatment, although there are some doubts concerning sustained long-term effects [1–4].

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**Statement of Ethics**

Protection of human and animal subjects: The authors declare that no experiments were performed on humans or animals for this study. Confidentiality of data: The authors declare that no patient data appear in this article. Right to privacy and informed consent: The authors declare that no patient data appear in this article.

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**Disclosure Statement**

The authors have no conflicts of interest to declare.

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