Blue rubber bleb naevus syndrome
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(Index words: Multiple haemangiomas, management)

Introduction
Blue rubber bleb naevus syndrome (BRBNS) is a rare clinical entity characterised by multiple haemangiomas commonly occurring in the skin and the gastrointestinal (GI) tract. The association between these cutaneous cavernous haemangiomas and similar lesions in the GI tract was first described in 1860 and the acronym BRBNS was given by Bean in 1958 [1]. Patients may present with massive GI bleeding or anaemia due to chronic occult bleeding.

Case report
The patient we describe is a male, 22 years at present. At birth his parents had noticed a lump on the left posterior chest over the scapula which gradually enlarged, for which medical advice was sought at the age of 3 years. An attempt had been made to excise the lump and the histology of the excised portion had shown an intramuscular haemangioma. At the age of seven, he had reported to the local hospital with melaena and anaemia. Upper GI endoscopy done during his hospital stay had shown multiple upper GI vascular malformations. Coagulation studies and routine blood investigations had been normal.

On admission to our unit at the age of 14, in addition to the GI haemangiomas (figure 1), he had multiple cutaneous vascular lumps, notably on his tongue, back of chest, shaft of penis, right knee joint and leg. The CT scan of brain was normal and the ultrasound abdomen excluded similar lesions in the liver, kidneys and spleen. Slit lamp examination of the fundus was also normal.

Later he presented with repeated episodes of pallor and melaena, which were conservatively managed with haematinics and blood transfusions. Several attempts at controlling the bleeds by injecting a sclerosant into the haemangiomas in the stomach failed to control the bleeds. Radio-isotope scans using Tc99 labelled red cells at each admission did not identify a definite site of GI bleeding. Since the bleeding continued despite conservative measures, an exploratory laparotomy was done at the age of 15 years. At laparotomy, multiple transmural and mucosal haemangiomas were seen in the stomach, small bowel and colon. A right hemicolectomy and local excision of several gastric and small bowel haemangiomas (identified by on-table enteroscopy) were carried out. His symptoms improved and the bleeding episodes decreased after surgery. Three years later he presented with one episode of melaena and pallor, for which he received a blood transfusion. For the past 4 years he has been asymptomatic.

Discussion
BRBNS is a rare condition in which patients commonly present with multiple cutaneous and GI haemangiomas. This condition can also affect other viscera such as liver, spleen, kidney, bladder, lungs, parotid, thyroid, central nervous system and eyes [1]. The majority of cases are sporadic, but an autosomal dominant inheritance has been reported [2]. It affects all races and both sexes equally. These lesions increase as the child grows older.

If the clinical features are mild, a conservative approach should be adopted. Cutaneous lesions do not warrant treatment unless they are cosmetically unacceptable. When the GI bleeding is mild, haematinics usually suffice, when severe, may need blood transfusion.

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Figure 1. Upper GI endoscopy view of the gastric mucosa showing multiple haemangiomas of varying sizes
Since these malformations are scattered throughout the gastrointestinal tract and new ones may develop later in life, surgical resections should be avoided [1]. When conservative methods fail and the lesions are confined to a particular segment of the gut, surgical resection is recommended.

Stabilisation of the lesions and control of bleeding may be achieved temporarily with certain pharmacological agents [1,3,4] but the lesions recur once the drugs are discontinued. The haemangiomas can also be treated endoscopically either by sclerotherapy or band ligation [5]. Endoscopic laser (YAG) photoocoagulation is a newer technique with encouraging results [6]. When there is a familial occurrence, genetic counselling is recommended.

References


Hypocalcaemic fits not responding to intravenous calcium therapy

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Introduction

Symptomatic hypocalcaemia secondary to hypomagnesaemia is a well known phenomenon. It manifests in many different ways. Unless the deficiency of magnesium is detected and treated early, long term neurodevelopmental sequelae may be is unfavourable. Estimation of serum calcium and magnesium in all neonates and infants presenting with seizures of obscure aetiology should be routine. Where facilities for routine magnesium estimation are not available, even a single finding of hypocalcaemia warrants assessment of serum magnesium level in a symptomatic infant. Here we report two infants with primary hypomagnesaemia presenting with convulsions during infancy.

Case reports

Case 1

A 16-day old male neonate was admitted with convulsions since day 12 of life. He is the first born to second degree consanguineous parents who are healthy. He was born at term with a birth weight of 2.8kg, and an uneventful perinatal period. The clinical examination was unremarkable. The biochemical investigations should serum calcium of 1.58 (normal 2.2-2.7) mmol/l and a serum magnesium of 1.6 (normal 1.7-2.7) mg/dl.

Serum sodium, potassium, chloride and blood glucose were normal. A full septic screen was negative and ultrasound brain scan did not reveal any structural abnormalities. He was stabilised with anticonvulsants and calcitriol initially and was discharged home on oral phenobarbitone and 1 alpha calcitriol. At 3 months he was readmitted with convulsions. On this occasion too, he was hypocalcaemic despite therapy and magnesium level had dropped further to 1.1 mg/dl. His convulsions settled with parenteral magnesium sulphate, and he was discharged home on oral magnesium chloride. He was readmitted at 4 months with symptomatic hypocalcaemia, and the magnesium chloride dose was readjusted. Since

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