Short reports


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Recurrent thrombocytopenic purpura associated with accessory spleen

The course of most cases of childhood idiopathic thrombocytopenic purpura (ITP) is acute and self-limiting but in a few patients, mostly older children, have a chronic form requiring splenectomy, as in adults. Macpherson and Richmond (1975) differentiated the chronic form, with its long history of episodic purpura, from the acute form, which is more common in children and has a history from onset of symptoms to diagnosis of less than 100 days. The acute form has a strong tendency to spontaneous and permanent remission. Finkelstein (1921) suggested that accessory spleens might be a cause of recurrence of ITP after splenectomy. Since then many others have commented on this association. We report a case of ITP which recurred after splenectomy. The removal of an accessory spleen produced a partial remission.

Case report

A 12-year-old boy presented in 1967 with epistaxis and conjunctival haemorrhages. He had bruised easily for 6 months before admission. He had had no significant illnesses and no family history of any bleeding disorder. A blood count showed Hb 8·6 g/dl, platelets <10 000/mm³, WBC 5000/mm³, with a normal differential. The bone marrow showed moderate cellularity with increase in megakaryocytes but was otherwise normal. Treatment with dexamethasone 2 mg three times a day produced no response after 3 months, and splenectomy was performed in January 1968. Splenic histology was normal. The platelet count rose to 1 million/mm³ by the second postoperative week (Fig. 1). After a further 6 weeks he was asymptomatic and the platelet count was 400 000/mm³. He was not seen again for a year, when he presented with a history of bruising and epistaxis for 3 weeks. His platelet count was 10 000/mm³. Within 2 weeks of starting a 4-month

![Graph of platelet counts throughout course of illness.](http://adc.bmj.com)
When he had been 100 cells found, tendency to bruising, he had purpura on his limbs and trunk, oral petechiae, and pale mucous membranes. Hb was 9·5 g/dl, WBC 15 000/mm² with a normal differential, platelets 5000/mm², ESR 8 mm in 1 h, no LE cells found, ANF negative, serum albumin 4·4 g/100 ml, serum globulin 3·8 g/100 ml. X-ray examination of the chest was normal. He was transfused with 4 units of whole blood and started on prednisolone 40 mg daily. Platelet counts were consistently below 5000/mm². Nose bleeds continued to be severe at times. Azathioprine 100 mg/day increasing to 250 mg/day was started on 11 May 1973. This regimen failed to produce a response after 2 months, as did infusion of 3 units of fresh frozen plasma. On 4 July 1973 the immunosuppressive therapy was changed to cyclophosphamide 100 mg daily. This was given for 4 weeks, but his platelet count and clinical condition failed to respond. The possibility of an accessory spleen was considered. Using the method of Atkins et al. (1972), a spleen scan with ⁹⁹ᵐTc-labelled red cells showed an area of uptake in the epigastrium. A repeat spleen scan 2 weeks later by the same technique confirmed this finding (Fig. 2).

A similar scan using ⁹⁹ᵐTc-labelled platelets showed the accessory spleen with a large uptake in the liver, a little in the lungs, and also in the bone marrow.

At laparotomy on 24 August 1973 a splenunculus about the size of a golf ball was found in the transverse mesocolon close to the pancreas. It was removed. No other accessory splenic tissue was found despite a meticulous search. Postoperatively the maximum platelet count was 57 000/mm². Immunosuppressive therapy was stopped and prednisolone reduced to 5 mg twice a day. Platelet counts over the period September 1973 to February 1975 were around 30 000/mm² with occasional counts up to 100 000/mm². A further 4-month course of cyclophosphamide 100 mg/day begun in October 1973 again had no significant effect on the platelet count. When last seen the patient was much improved, with few epistaxes. These were further ameliorated by cryosurgery to the nasal septum.

Discussion

This case illustrates the role of splenunculi in relapse of ITP after splenectomy. The recurrence rate after first operation has been reported as 14% (Giffin and Holloway, 1925), 17% (Vaughan, 1937), and 15% (Watson-Williams, Macpherson, and Davidson, 1958). Watson and Moir (1941) noted that these recurrence rates were similar to the discovery rate of splenunculi in routine necropsies. There are several well-documented reports of patients with ITP relapsing after splenectomy in whom splenunculi were found at necropsy. Morrison, Lederer, and Fradkin’s (1928) case led others to look for splenunculi in life using Thorotrast and second operations. Rosenthal et al. (1951) reported 2 cases of splenunculi demonstrated by Thorotrast. Evans et al. (1953) and Brooks, O’Shea, and Pryor (1969) have included in each of their series a case in which the removal of an accessory spleen probably produced a remission.

The concept of accessory spleens causing relapse in ITP is an attractive one, especially in view of the known association between recurrence of hereditary spherocytosis and presence of splenunculi. However, the whole question must remain open. The reliable demonstration of accessory spleens by modern scanning techniques should now facilitate surgery and allow a review of a large number of relapsed cases to assess the significance of splenunculi in this condition.

Summary

In the case of a boy with relapsed thrombocytopenic purpura removal of a splenunculus, shown by radioisotope scanning, resulted in a partial remission. The significance of the association of relapse in ITP and the presence of splenunculi remains unknown: investigation of similar cases would clarify the matter.

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References

Short reports

Benign rectal ulceration of unknown origin
An unusual cause of rectal bleeding

Rectal bleeding in children is rarely of serious significance and the most common identifiable causes are superficial anal fissures associated with constipation and benign polyps of the large bowel. Rarer causes of fresh rectal haemorrhage in the young include peptic ulceration of a Meckel diverticulum, intestinal duplication, haemangiomata, and ulcerative colitis. In some patients the origin of the bleeding is never identified and it ceases spontaneously (Gross, 1953). This report describes an unusual cause of repeated rectal bleeding in an infant aged 18 months.

Case report
The patient, the second male child of a Negro Jamaican father and a white mother, presented in August 1973 at 18 months of age with a 6-day history of crying before defaecation and bleeding per rectum. There was no previous history of serious illness or of constipa-

Macroscopic appearance of resected specimen (Fig. 1). The fixed specimen was 6.5 cm in length and 6 cm wide. There was a deep ulcer 2 cm in diameter extending to within 0.5 cm of the distal end. Super-

Fig. 1.—Resected specimen after fixation showing extensive ulceration with islands of mucosa. Distal cut end is at top.