days, and 44 for 180 days. Fifty patients received placebo and 47 cimetidine.

Severe upper gastrointestinal bleeding occurred in 12 patients (seven men, five women). None of them had a history of peptic ulcer, and the examinations of the upper gastrointestinal tract before transplantation had yielded normal results. During the acute bleeding episode six of these patients were examined either radiographically or endoscopically. Two had an acute gastric ulcer, and four had diffuse bleeding from gastric or duodenal erosions. Eleven patients had received placebo and one cimetidine. This difference was significant ($\chi^2 = 7.07$, p < 0.01). All bleeding episodes occurred within the first 30 days after renal transplantation (median 12, range 1–30 days).

Ten patients given placebo and 12 given cimetidine had their renal graft removed after five to 145 (median 35) days because of rejection. This difference was not significant ($\chi^2 = 0.167$).

Discussion

Only a few, retrospective studies of the prophylactic use of cimetidine in renal transplant recipients have been reported. These have compared the incidence of upper gastrointestinal haemorrhage in patients treated with cimetidine with that in historic controls not receiving cimetidine. In such retrospective studies Jones et al and Roermund et al found a significant effect of cimetidine and GARVIN and AL reported some effect. In the only prospective study reported Schiessel et al found no significant effect of cimetidine after renal transplantation in 55 patients. Primack suggested that treatment with cimetidine might increase the incidence of allograft rejection. Schiessel et al did not confirm this.

Our study showed that in most patients cimetidine prevents upper gastrointestinal bleeding after renal transplantation. This accords with the results of the previous retrospective studies. In the prospective study of Schiessel et al three patients given cimetidine and two given placebo had upper gastrointestinal bleeding. The apparent difference between these findings and those of our study may be explained by the different number of patients studied.

In conclusion, our study showed that cimetidine acts as effective and safe prophylaxis against upper gastrointestinal bleeding after renal transplantation. There was no indication that it influenced the incidence of rejection of the renal graft.

References


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Anaphylactic reaction to aprotinin despite negative ocular sensitivity tests

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Abstract

A man with a history of pancreatitis was given aprotinin intravenously just before endoscopic retrograde pancreaticography. Despite negative sensitivity tests with aprotinin eye drops he developed a profound anaphylactic reaction on intravenous administration of the drug.

Ocular sensitivity tests may not predict severe anaphylactic reactions to intravenous aprotinin.

Introduction

Serious allergic reactions to aprotinin occur in less than 0.1% of patients receiving this drug.1 We report on a man who, despite negative ocular sensitivity tests, had a severe anaphylactic reaction after the intravenous administration of aprotinin.

Case report

A 44 year old man with a clinical history suggestive of chronic pancreatitis secondary to alcohol abuse was referred to this hospital for endoscopic retrograde pancreatography.

He gave a history of having been admitted several times to the referring hospital with upper abdominal pain, often associated with appreciable hyperamylasaemia. He was usually treated conservatively with intravenous fluids and analgesics and according to the records had twice received an infusion of aprotinin. In June 1982 he had undergone suction drainage of a ruptured pancreatic pseudocyst, after which he had further episodes of abdominal pain, often necessitating admission to hospital and treatment with narcotic analgesics.

Recent investigations had shown normal haematology and biochemistry. Ultrasound scanning of the pancreas showed some dense echoes in the head and body; the tail, however, could not be clearly defined. A Lund test meal was indicative of early pancreatic insufficiency.

Our policy with patients undergoing endoscopic retrograde pancreatography who have a history of pancreatitis was to administer 500 000 Kallikrein inhibiting units (KIU) aprotinin intravenously,
Intravenous gammaglobulin treatment in patients with hypogammaglobulinaemia

A SO, M K BRENNER, I D HILL, G L ASHERSON, A D B WEBSTER

Abstract

Intravenous gammaglobulin was compared with the standard British intramuscular preparation in patients with hypogammaglobulinaemia and chronic bronchitis. Five patients were given six months' treatment with the weekly intramuscular preparation and six months' treatment with intravenous gammaglobulin given once every 18 days. During the trial they recorded symptoms of infection, absence from work, and sputum volume; lung function tests were performed during the intravenous treatment. The half life of the intravenous IgG and changes in serum IgG and Clq concentrations were also measured in seven other patients who received intravenous gammaglobulin every two weeks for 12 weeks. IgG concentrations, sputum volume, and infection scores were significantly better during intravenous treatment and there were no adverse effects from the intravenous gammaglobulin. These five patients were significantly more healthy when they received an intravenous gammaglobulin preparation, probably because the intravenous preparation increased serum IgG concentrations. Although longer studies are needed, intravenous gammaglobulin should be considered for patients with severe chest disease and those who cannot tolerate intramuscular injections.

Introduction

It has been standard practice in England to give patients with symptomatic hypogammaglobulinaemia weekly intramuscular injections of gammaglobulin, which are painful and sometimes cause anaphylactic type reactions. We report a small comparative trial between the standard British intramuscular preparation and an intravenous gammaglobulin.

Patients and methods

We studied five patients with primary hypogammaglobulinaemia (serum immunoglobulin concentrations: IgG < 2, IgA < 0.1, and IgM < 0.1 g/l) and chronic bronchitis who had been receiving weekly intramuscular injections of gammaglobulin for many years. Each patient entered the trial for 12 months and received a total of six months' treatment with intravenous gammaglobulin (Imunoglobulin SRK, Sandoglobulin) and six months' treatment with intramuscular gammaglobulin (Blood Products Laboratory, England). To control for seasonal variation in infection rates we gave each regimen for an equal amount of time in the winter (from October to March). The intravenous gammaglobulin was given in a dose of 200 mg/kg body weight once every 18 days and the intramuscular gammaglobulin in a dose of 25 mg/kg once a week.

Patients kept daily records of symptoms of infection and absences from work, and recorded their sputum volume on either Saturday or