Kaposi's sarcoma in a patient after renal transplantation

P. J. LITTLE  
F.R.C.P., F.R.A.C.P.

C. F. FARTHING  
M.B., Ch.B.

A. AL KHADER  
M.D., M.R.C.P.

H. BUNUAN*  
M.D.

A. HALEEM  
M. Phil., M.R.C.Path.

Riyadh Al Kharj Military Hospital and *King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia

Summary

A patient is described who developed the lesion of Kaposi's sarcoma 4 months after receiving a cadaveric renal transplant. Immunosuppression had been achieved using cyclosporin A and prednisolone. The lesions spread from the hands to other areas, but later regressed when the dose of cyclosporin A was reduced to 100 mg daily. The patient remains well with no evidence of rejection 15 months later.

KEY WORDS: Kaposi's sarcoma, renal transplantation.

Introduction

We wish to report the occurrence of Kaposi's sarcoma in a patient who received a renal transplant. His immunosuppressive regime included cyclosporin A and prednisolone.

Case report

The patient, a 63-year-old Saudi male received a cadaveric donor renal transplant on the 23rd August, 1981. Immunosuppression was commenced with cyclosporin A, 1100 mg daily, and prednisolone, initially 200 mg daily tapering to a maintenance dose of 30 mg daily. Within 2 weeks, his cyclosporin A dose had been reduced to 400 mg daily. However, one week later, he suffered from an acute rejection. This was treated with an increased dose of prednisolone and the cyclosporin A was raised once more to 600 mg daily. His weight at this time was approximately 60 kg. One month later he was receiving prednisolone 15 mg daily; cyclosporin A, 600 mg daily; isoniazid, 300 mg daily and frusemide, 80 mg daily, and he remained on this regime until his return to Saudi Arabia.

On his return to Saudi Arabia, he was found to be fit. His blood pressure was normal and no abnormalities were recorded on physical examination. He was hepatitis antigen B and VDRL negative; serum creatinine was 0.15 mmol/litre; blood urea 17 mmol/litre; haemoglobin 12.9 g/dl and the white cell count was 10 x 10^9/litre. His creatinine clearance averaged 50 ml/min. Cytomegalovirus (CMV) titre done as part of a viral screen was 128 on 23rd December, 1981; 64 on 29th December, 1981; 16 on 14th January, 1982 and 64 on 7th January, 1982 after immunosuppression was reduced. His renal function remained stable. On 2nd January, for the first time, it was noted that he had developed an infiltrating purplish skin lesion 2 cm x 3 cm over his left wrist, adjacent to a pre-existing arterio-venous fistula (Fig. 1). Histological examination confirmed the diagnosis of Kaposi's sarcoma (Fig. 2). The dose of cyclosporin A was immediately reduced to 300 mg daily and the prednisolone to 10 mg daily. Even on this reduced dose of cyclosporin A, the tumour continued to grow. New nodular lesions on the left hand and the left ear appeared. Further reduction in cyclosporin A to 100 mg daily and local irradiation with 2500 rads over 10 days resulted in regression of the lesion without evidence of renal rejection. The serum creatinine remained stable at 0.16 mmol/litre.

Discussion

It is generally agreed that there is an increased risk of malignant disease in immunosuppressed patients following transplantation (Curtis, 1982). Kaposi's sarcoma is a rare tumour in most Western Countries, but is relatively common in Africa (Editorial, 1981). Its incidence in Saudi Arabia is unknown, but other cases are being reported (Akhtar et al., 1982). The
Clinical reports

Fig. 2. Photomicrograph of the tumour showing angiogenic activity in a mixture of plump oval cells. H.E., ×400.

disease is usually more serious in immunocompromised patients and patients receiving steroids. It may respond to cessation of immunosuppressive therapy (Harwood et al., 1979).

It has been suggested that cytomegalovirus infection is associated with Kaposi’s sarcoma (Editorial, 1981). This association was not clear in the patient described, but there was a small fall in the CMV titre after presentation. This appears to be the first reported case of Kaposi’s sarcoma occurring in a patient immunosuppressed with cyclosporin A. Reduction of the dose of cyclosporin A appears to have produced a satisfactory remission.

References


(Accepted 8 July 1982)
Kaposi's sarcoma in a patient after renal transplantation.

P. J. Little, C. F. Farthing, A. Al Khader, H. Bunuan and A. Haleem

*Postgrad Med J* 1983 59: 325-326
doi: 10.1136/pgmj.59.691.325

Updated information and services can be found at:

http://pmj.bmj.com/content/59/691/325

These include:

**Email alerting service**
Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

**Notes**

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/