INITIAL EXPERIENCE WITH CAPD IN PATIENTS WITH HIV INFECTION IN A **DEVELOPING COUNTRY**

Sir:

Renal replacement therapy in the form of modialysis for the treatment of end-stage renal disease as started in Nairobi, Kenya, in 1984 (1). Since its ception it has been routine to screen all patients for arkers for the hepatitis B virus. It was not until mid 1987 at we started screening patients for HIV antibodies as part the preparation for hemodialysis.

At the beginning of 1989 we started a CAPD program, med at treating a few patients who were determined to be dependent of hospital-based treatment. Because of the ohibitive cost of renal replacement therapy and the bleak ognosis in patients with HIV infection, we exclude such tients from our program, despite the WHO recom-

endation (2).

In a 33-month period (January 1989 to September 1991) 9 tients (5 females and 4 males) with end stage renal disease d HIV infection, without AIDS, have opted for treatment ith CAPD at their own cost. Their mean age was 33.6 yr ange 24 yr -48 yr). The double-cuff Tenckhoff catheter as inserted surgically in all patients, and all used a spike nnection system. The training period lasted from 10 to 14 ys. In the first week of CAPD all the patients had adequate alysis, as evidenced by blood urea nitrogens, range 15-23 mol/L and serum creatinine of 668-957 & mu; mol/L.

The major complication in these patients was peritonitis, ith the first episode developing 5 to 18 days (mean 7.8 ys) after insertion of the catheter. This compared favorably with 5 CAPD patients who had no HIV fection. These patients developed the first episode of ritonitis 3 to 14 months (mean 6 to 8 months) after sertion of the catheter. In all, the HIV -infected patients ere dialyzed for a duration of 52 patient months (mean 5.8) onths) before death (7) or loss to follow up (2). In this riod the HIV -infected CAPD patients developed 35 isodes of peritonitis or 8 episodes of peritonitis per 12 tient months. On the other hand, our 5 patients on CAPD, it without HIV infection, have been followed up for 15 to months (mean 26.2 months) and have developed 14 isodes of peritonitis, working out to 2.1 episodes of ritonitis per 12 patient months. The infecting organisms uring the 35 episodes of peritonitis have been coagulase gative Staphylacoccus in 11, S. aureus in 8, Klebsiella rains in 6, culture negative in 6, Pseudamanas aeruginasa 2. Mysobactarium tuberculasis and Candida albicans in 2, Mycobacterium tuberculasis and Candida albicans in e each. The pattern of infecting organisms in patients ithout HIV infection was more or less the same.

In the HIV-infected patients the peritonitis episodes took a otracted course (10 to 67 days, mean 23.4 days) despite

propriate antibiotic therapy as determined in vitra.

The effluent peritoneal dialysis fluid was analyzed for IV antibodies by the ELISA method in 7 patients. This was und to be strongly positive in 1 patient and weakly positive

Whereas peritonitis continues to be the dominating mplication and cause of morbidity and discontinuation of erapy in CAPD (3,4), the relatively abysmal performance our patients with HIV infection convinces us that this kind expensive treatment of end-stage renal disease should not offered to such patients in countries with limited health dgets, despite the WHO recommendation (2). In

addition, health workers who undertake to perform CAPD in such patients should take the necessary precautions when handling the effluent peritoneal dialysis fluid because of the risk of infection.

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