

ANCA-associated vasculitis in end stage renal disease patients: A retrospective study

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Objectives:

Antineutrophil cytoplasmic antibody-associated vasculitis (AAV) is a life threatening disease and an important cause of end-stage renal disease (ESRD). Renal replacement therapy is frequently required. However, the report of long term outcome of AAV in

Methods:

We described 9 patients with AAV, who required maintenance dialysis in our hospital from January 1992 to December 2015. Mean age was 62.5 ± 13.4 years (range 42-81) at the beginning of dialysis. There were 3 males and 6 females. The patients were diagnosed of AAV by pauci-immune crecentic glomerulonephritis or microscopic polyangiitis.

Results:

The distribution according to ANCAs was 8p-ANCA (88.9%) and 1 c-ANCA (11.1%) positive. Corticosteroids and cyclophosphamide were administered to 4 patients before or at the onset of dialysis. One patient had corticosteroids and mycophenolate

mofetil. One patient received isolated corticosteroid therapy. Mean follow-up after first dialysis was 54.2 \pm 40.1 months (range 12–140). Seven patients were in hemodialysis (HD), and two patients were in peritoneal dialysis (PD). Relapses after beginning dialysis were observed in five patients (seven episode). Relapses rate was 0.02 episode/patient/year. Diffuse alveolar hemorrhage (DAH) was observed in 4 patients after the onset of maintenance dialysis. Although corticosteroids, cyclophosphamide and/or plasma exchange were administered, all 4 patients with DAH died. Two patients died of infection. Survival rates for1, 2 and 5 year was 88.9%, 88.9% and 66.7%, respectively. Overall mortality at the end of the study was 66.7%. Compare with patient without DAH, DAH patients were older (69.8 \pm 10.0 vs 56.8 \pm 13.8 years), had a higher Birmingham vasculitis score (25.5 \pm 5.3 vs 22.2 \pm 4.5), got less Immunosuppressive therapy before or at the onset of dialysis, with reduced survival (43.0 \pm 24.7 vs 63.2 \pm 50.4 months). But due to the small number of patients in this series, there were no significant differences (p=0.162, 0.346, 0.490 respectively).

Conclusions:

The AAV patients under maintenance dialysis seem to have a worse prognosis compare with other causes of ESRD. The relapse rate after the beginning of dialysis is relatively high. The main causes of death are DAH and infection.

References:

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