

16th EUROPEAN NEPHROLOGY CONFERENCE

October 02-03, 2017 Barcelona, Spain

Effectiveness of impregnation scheme vs maintenance schedule with ceftazidime/cephalothin in patients with dialysis peritonitis

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Objective: To compare the effectiveness of impregnation scheme vs maintenance schedule with ceftazidime / cephalothin in patients with dialysis peritonitis.

Methodology: With a cohort design were analyzed patients with renal chronic failure admitted to the nephrology department during March-April 2015.

First group: patients with impregnation scheme

Second group: patients with maintenance schedule

We included patients on peritoneal dialysis, peritonitis diagnosed by cell count and percentage of polymorphonuclear in dialysate. Refractory patients with peritonitis, recurrent and allergy to cephalosporins were excluded. The sample (31 per group) was calculated with the formula of percentages for two populations. Selection was done by taking the listing fee patients registered in the census of nephrology service. Sociodemographic characteristics, comorbidities, type of dialysis (CAPD, DPA, DPI), peritoneal dialysis time and time to progression of chronic kidney disease were analyzed. The efficacy of therapy was established through cellularity (99 cells per field) evaluated at 24 hrs, 48 hrs, 72 hrs, and 96 hrs. The statistical analysis plan included percentages, averages, standard deviation, chi square and relative risk.

Results: The efficacy at 24 hours was 0% in both groups ($p = 1.00$); at 72 hours 50% in the impregnation and 41.4% for maintenance ($p = 0.50$, $RR = 1.17$); 96 hours 65.6% in retreatment group and 41.4% in the maintenance ($p = 0.05$, $RR = 1.62$).

Conclusion: The antibiotic impregnation scheme proved more effective than maintenance.

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