

ABSTRACT

Kidney failure is a global health that can be seen from the increasing incidence and morbidity. Kidney failure caused by a permanent decline in kidney function, and requires therapy for kidney replacement, one of which is with CAPD). CAPD is a dialysis technique performed with a peritoneal membrane that functions as a filter that separates the dialysate on the peritoneal membrane from blood plasma in the peritoneal blood vessels. CAPD as therapy for patients with chronic renal failure. CAPD patients tend to have low serum albumin, sodium and potassium levels which can lead to an increased risk of morbidity and mortality. To determine the relationship between albumin levels and sodium and potassium levels in CAPD patients. The study was conducted from January to Mei 2022. Methods cross-sectional divided into 3 groups of age intervals 40-50 years, 51-60 years, and 61-70 years in 60 patients with chronic renal failure using CAPD as therapy at PHC Surabaya Hospital. The results showed average albumin level of CAPD patients aged 41-50 years was 3.24 g/dl, aged 51-60 years was 3.00 g/dl and aged 61-70 years was 2.82 g/dl. The average sodium level of CAPD patients aged 41-50 years was 136.91 mmol/L, 51-60 years old was 134.21 mmol/L and 61-70 years old was 134.19 mmol/L. The average potassium level of CAPD patients aged 41-50 years was 3.72 mmol/L, aged 51-60 years was 3.70 mmol/L and aged 61-70 years was 3.68 mmol/L. Base on these results. Conclusion of this research that showed a relationship between albumin levels with sodium and potassium levels in CAPD patients.

Keywords : *CAPD* , Albumin, Natrium, Kalium