

ABSTRACT

Chronic kidney disease is a disorder of kidney function where the body fails to maintain metabolism, fluid and electrolyte balance. Hemodialysis is a supportive therapy for the continuation of chronic kidney failure. This therapy can prolong the patient's life but cannot restore kidney function completely. Factors that affect the value of urea and creatinine in hemodialysis patients are blood flow velocity, duration of dialysis, and the dialyzer used. This research tool model uses a pre-experimental method with the type of research "one group post test" design. In this design, the author only sees the results without measuring the previous situation. However, there was already a control group here, although no randomization was conducted. The weakness of this design is that it does not know the initial conditions, so that the results obtained are difficult to conclude. Based on the results of the measurement of the module six times against the comparison tool so that the difference between the measurement of the module and the instrument is 5.30%, between the hemodialysis machine and standard equipment is 4.02%.

Keywords: Hemodialysis, dialysate flow rate, flow sensor