

Research Title: The Semi-automation control system for Continuous Ambulatory Peritoneal Dialysis

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ABSTRACT

This research presents the Semi-automation control system for Continuous Ambulatory Peritoneal Dialysis. The system is designed to help kidney disease patients who use peritoneal dialysis. The microcontroller is used notification procedure dialysis through LED. The system have the sensors to check the risk of infection and read the weight of PD exchange peritoneal dialysis and recording the data into the Memory Card (MicroSD). After designed, the performance test of the system with the accuracy test of the weight of the PD exchange peritoneal dialysis, testing the risk of infection of the patient, the performs test notification procedure dialysis patients. As a result from experimental, Performance test of Semi-automation control system was properly.

Keywords: Chronic kidney disease/CKD, Kidney transplant-KT, Peritoneal Dialysis