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Abstract

Disadvantage of re-processing dialyzer can come of the major factors sterility, presentations chemicals that used during processing back to patients, changes the surface and vascular permeability membrane in qualitative and quantitative, and the loss integrity structure dialyzer. Use back dialyzer causes potential an impairs clearance uremic toxins and can cause could not be achieved dosage HD which is wanted. Use back dialyzer (dialyzer reuse) is done in Dr Soetomo Hospital. Each dialyzer used as much as 8 times with 1 times new usage and 7 times use again. Until this time there is no data of efficiency dialyzer that is processed, so that the research was done in order to find out the influence dialyzer re-processing performance by using parameter clearance urea. Observational experimental that done prospective in Hemodialysis unit DR Soetomo Surabaya that aims to compare clearance urea of new dialyzer with clearance urea dialyzer that is re-processed with the product R and the product R-H2O2. Samples is dialyzer that is used by patients with chronic kidney disease diagnostic stage 5 hemodialysis chronic in the hemodialysis unit in DR Soetomo Surabaya who meet the inclusion criteria. Sample size is determined by the method quotas sampling. There was a decline clearance urea < 10% in dialyzer which is re-processed with R and R-H2O2 where, the decline of urea clearance in dialyzer re-processed with R-H2O2 more stable compared to deviation dialyzer re-processed with R alone. Re-processing dialyzer with R and R added Hydrogen peroxide declines clearance urea substituted cellulose dialyzer. Declining clearance urea of re-processed dialyzer with R is lower compared to dialyzer re-processed with R and Hydrogen peroxide. (FMI 2012;48:50-53)

Keyword : re-processing, dialyzer, product, "R", hydrogen, peroxide, substituted, cellulose,

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