

عنوان مقاله:

اثرات تغییر اولترافیلتراسیون و غلظت سدیم محلول دیالیز در پیشگیری از افت فشار خون و کرامپ عضلانی در طی فرآیند همودیالیز

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خلاصه مقاله:

Background and objective: Hypotension and Muscle cramp are the common complications of Hemodialysis. One approach that has recently been proposed to prevent this complication is the change in the concentration of sodium and ultrafiltration. The purpose of this study was to investigate the influence of sodium dialysate variation and ultrafiltration in preventing hypotension and muscle cramp during hemodialysis process. Material and Methods: In this clinical trial study, ۴۴ Hemodialysis patients were divided randomly into four groups. For each group, four treatment protocols (six-session Hemodialysis) were conducted. Protocol A: Sodium dialysate and ultrafiltration were constant. Protocol II: sodium was linear and ultrafiltration was constant. Protocol III: Sodium and ultrafiltration were linear. Protocol IV (routine): Sodium and ultrafiltration were constant. Using Chi-Square and relative risk, the data was analyzed ($P<0.05$). Results: The incidence of hypotension, at the end of the fourth hour of dialysis in Protocol ۳, was significantly decreased compared to that of routine method ($P<0.05$), while at the end of first, second and third hour, this difference was not significant. Muscle cramp in the routine method was more than other protocols ($P=0.034$). The relative risk of muscle cramp in the routine method was ۲.۰۸ times of protocol I, ۱.۰۹ of Protocol II, ۲.۰۸ of protocol III. Conclusion: Sodium and ultrafiltration profile is simple and cost-free, and it reduces the incidence of hypotension and muscle cramp during dialysis. Thus, we recommend using sodium and UF profile instead of routine protocol to reduce these effects.

کلمات کلیدی:

,Hemodialysis, Sodium variation, Ultrafiltration, Blood pressure, Muscle cramps

همودیالیز، غلظت سدیم محلول دیالیز، اولترافیلتراسیون، افت فشار خون، کرامپ عضلانی

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