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## **The Influence of Nursing Care Quality Using Sodium Profiling for Intradialysis Hypotension in Hemodialysis Patients**

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**Case Study :** Introduction Literature demonstrated that hypotension during hemodialysis(HD) is associated with higher complications and mortality rates among HD patients. However, there is a paucity of study to investigate the influences on HD nurse working load and care quality using sodium profiling. This study aimed to focus on clinical practice in HD nurses using sodium profiling in dialysis fluid among a cohort HD patients with intradialysis hypotension. Methods A total 90 HD patients with a history of hypotension in HD sessions were enrolled from January to September, 2022, the mean age was 63.9 years, men 31(34.4%), women 59 (65.6%), diabetes 51 (56.6%). A time-dependent sodium profile(Fresenius 4008S) was applied during HD session in candidate patients. HD nursing care quality and working load were examined via review e-medical records and calculated complete rates of e-records, health education sheets and time consumption in HD machine setting. Results The incidence rate of intradialysis hypotension was decreased from 30.9% to 12.2%, untoward symptoms decreasing from 20.0% to 8.2% using sodium profiling. To avoid hypotension in HD sessions, HD nurses needed to spend much time to set various parameters in HD machines in the beginning of HD, such as dialysate temperature, stepwise blood flow rate and ultrafiltration rate, diverse dialysate sodium and calcium concentrations etc. The time consumption to machine setting was reduced from 129 sec to 30 sec when applying sodium profiling. The complete rate in nurse e-record was increased from 61.9% to 90.6%, health education sheets for patients increasing from 77.9% to 99%. Satisfaction in patients and family was increased from 67% to 99%. Clotting rate of HD vascular access was decreased from 21.1% to 8.9%. Conclusion Clinical practice quality and working load in HD nursing care could be improved using sodium profiling in HD patients with intradialysis hypotension.