

学 位 論 文 の 要 旨

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<p>主論文の題名</p> <p>Hemodynamic and pathophysiological characteristics of intradialytic blood pressure elevation in patients with end-stage renal disease</p> <p>主論文の要旨</p> <p>Hemodynamic and Doppler echocardiographic characteristics of intradialytic-HTN, and its impact on clinical outcomes are unclear. A retrospective analysis of 84 patients stratified into three groups based on systolic blood pressure (SBP) response from pre- to post-hemodialysis: GHTN (intradialytic-HTN, SBP increase $\geq 10\text{mmHg}$), GDROP$<15\text{mmHg}$ (SBP drop $<15\text{mmHg}$), and GDROP$\geq 15\text{mmHg}$ (SBP drop $\geq 15\text{mmHg}$). Hemodynamic and echocardiographic assessments were performed pre- and post-hemodialysis, and patients were followed for 41 ± 17 months. GHTN had higher blood glucose, smaller cardiothoracic ratio, and lower baseline SBP, serum potassium, and peak early diastolic mitral annular velocity (E'). After hemodialysis, left ventricular (LV) filling pressure (E/E' ratio) decreased only in GDROP$\geq 15\text{mmHg}$, resulting in a higher E/E' ratio in GHTN than GDROP$\geq 15\text{mmHg}$. Multivariate logistic regression analysis revealed a positive correlation between blood glucose and intradialytic-HTN, whereas cardiothoracic ratio, pre-hemodialysis SBP and the change in E/E' ratio with hemodialysis were negatively related to intradialytic-HTN. During follow-up, GHTN had more cardiovascular deaths than GDROP$\geq 15\text{mmHg}$. Multivariate Cox regression analysis showed that lower serum potassium and previous coronary artery disease, but not intradialytic-HTN, were associated with cardiovascular deaths. A higher LV afterload and elevated filling pressures after hemodialysis may contribute in part to an increased cardiovascular burden in patients with intradialytic-HTN.</p>			