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투석 후 저혈압과 혈관 경직도와의 관계

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Arterial Stiffness Contributes Post-Hemodialysis Hypotension which May be Associated with Vascular Calcification

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The cardiovascular disease is one of the leading causes of mortality and morbidity in hemodialysis patients. Arterial stiffness is known to be associated with vascular calcification in HD patients. Post-HD hypotension is the risk factor for cardiovascular mortality. We evaluated the relation between arterial stiffness and post-HD hypotension in maintained HD patients.

72 HD patients without acute coronary syndrome, acute infection, and acute inflammation were enrolled. They are maintaining HD more than 3 months. We checked biochemical data including troponin T, CRP, OPG (osteoprotegerin) before dialysis session and baPWV(brachio-ankle pulse wave velocity) after session. We defined post-HD hypotension is BP drops more than 5 % in MAP more than 3 times for 2 weeks (6 sessions).

The patients with and without post-HD hypotension were 34 and 38, respectively. The hypotension group has higher CRP, troponin T, and OPG level ($p<0.05$, 0.01, 0.01, respectively). PWV was higher in hypotension group ($p<0.001$). CRP and troponin T level were positively correlated with PWV ($r=0.26$, $p<0.05$; $r=0.31$, $p<0.01$, respectively). OPG level was positively correlated with PWV ($r=0.44$, $p<0.001$). Drops in MAP in patients was correlated with PWV ($r=0.30$, $p<0.05$). In multivariate analysis, PWV was the independent factor for drops in MAP in patients ($r=0.311$, $p=0.021$).

In conclusion, arterial stiffness contributes post-hemodialysis hypotension which may be associated with vascular calcification

Key Words: 투석, 저혈압, 혈관 경직도
Dialysis. Hypotension, Arterial stiffness