

# 感染性心內膜炎的透析患者其預後於腹膜透析較血液透析族群更為堪憂 Inferior Outcome of Infective Endocarditis in Peritoneal Dialysis Patients Compared with Hemodialysis Patients

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## Abstract

**Background.** Hemodialysis has been known as a risk factor for the development of infective endocarditis (IE). However, we diagnosed several cases of infective endocarditis in patients with peritoneal dialysis who had poor outcome and made us consider peritoneal dialysis may also be an important role of infective endocarditis. We compared the spectrum of infective endocarditis between hemodialysis and peritoneal dialysis patients.

**Methods.** All dialysis patients with IE occurred from September 2000 to September 2013 at China Medical University Hospital were included. The Duke criteria for IE were used for diagnosis. We retrospectively analyzed the related risk factors and patient survival of IE in 60 dialysis patients (with 67 episodes of IE).

**Results.** In total 60 patients (HD 52 and PD 8), there were no significant differences in gender, mean age years, duration of dialysis prior to the episode of IE months, DM related ESRD, underlying disease with hypertension, hepatitis, comorbidity with coronary arterial disease who ever confirmed by coronary catheterization, valve calcification, or the valves of vegetation involvement. In multivariable logistic regression analysis, peritoneal dialysis patients were significantly associated with lower survival ( $P=0.026$  in model A;  $P=0.031$  in model B;  $P=0.024$  in model C). Besides, the patients' initial presentation with hypoalbuminemia ( $P=0.004$  in model A;  $P=0.006$  in model B;  $P=0.008$  in model C) or underlying disease with HTN ( $P=0.046$  in model A;  $P=0.032$  in model B;  $P=0.049$  in model C) both revealed inferior outcomes.

**Conclusion.** This is the largest analysis of IE series in dialysis patient in Taiwan. Our result revealed inferior outcome of infective endocarditis in peritoneal dialysis patients which reminds us should pay more attention to the peritoneal dialysis patient since they are difficult for rapid diagnosis and poor prognosis when compared with hemodialysis patients.

關鍵字: 感染性心內膜炎, 血液透析, 腹膜透析

Key words: infective endocarditis, hemodialysis, peritoneal dialysis.