

中文題目：血液透析患者離散P波與全死亡率和心血管死亡率相關性

英文題目：Association of P wave dispersion with overall and cardiovascular mortality in hemodialysis

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Background: The P wave parameters measured by 12-lead electrocardiogram (ECG) are commonly used as noninvasive tool to assess for left atrial enlargement. This study is designed to assess whether P wave dispersion is associated with overall and cardiovascular mortality in hemodialysis patients.

Materials and Methods: This study enrolled 209 hemodialysis patients from December 2006 to January 2007. We measured the P wave dispersion corrected by heart rate, i.e. corrected P wave dispersion (PWdisperC) and assessed its correlation with overall and cardiovascular mortality.

Results: The value of PWdisperC was 93.3 ± 21.1 ms. During the period of follow-up (mean, 5.4 years), 58 deaths and 37 cardiovascular deaths were recorded. Multivariate Cox-regression analysis identified tertile 3 of PWdisperC (*versus* tertile 1) was associated with overall (hazard ratios [HR], 2.472; 95% confidence interval [CI], 1.181 to 5.174; $P = 0.016$) and cardiovascular (HR, 3.896; 95% CI, 1.463 to 10.376; $P = 0.007$) mortality after adjustment for demographic, clinical, and biochemical parameters. Similarly, PWdisperC was also associated with overall (HR, 1.018; 95% CI, 1.004 to 1.033; $P = 0.014$) and cardiovascular (HR, 1.032; 95% CI, 1.012 to 1.053; $P = 0.002$) mortality. Besides, the addition of PWdisperC to a model of clinical features could significantly improve the predictive value for overall ($P = 0.044$) and cardiovascular ($P = 0.002$) mortality.

Conclusions: PWdisperC was positively associated with overall and cardiovascular mortality in hemodialysis patients and could provide additional prognostic values. Screening hemodialysis patients by means of PWdisperC may help identify a high risk group of poor prognosis.

Key words: P wave dispersion, overall mortality, cardiovascular mortality, hemodialysis