

## 쯔쯔가무시병 환자에서 발생한 급성 신부전의 임상적 특징-RIFLE criteria 보정

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### Clinical Characteristics of Acute Kidney Injury in Patients with Scrub Typhus-RIFLE Criteria Validation

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**Background:** The aim of this study is to investigate the incidence and clinical characteristics of acute kidney injury (AKI) based on RIFLE criteria in scrub typhus.

**Methods:** From 2010 to 2012, 238 patients were diagnosed as scrub typhus. Of these, we included 223 patients who were followed up until renal recovery or for at least 3 months, and evaluated the incidence, clinical characteristics and severity of AKI based on RIFLE classification.

**Results:** Of 223 patients, 47 (21%) had scrub typhus-associated AKI. The incidence of AKI was 21.1%; of which, 10.7%, 9.4% and 1% were the Risk, Injury and Failure classes, respectively. In comparison with patients in non-AKI group, the patients in AKI group were older ( $70 \pm 9$  vs  $61 \pm 14$  year,  $p=0.01$ ) and had more comorbidities such as hypertension, diabetes and chronic kidney disease (77% vs 22%,  $p=0.01$ ). The patients in AKI group had worse renal function than that of Non-AKI group at admission ( $37 \pm 15$  vs  $82 \pm 19$  ml/min/1.73m<sup>2</sup>,  $p=0.01$ ). Forty-five had AKI prior to admission, whereas 3 patients experienced AKI during their hospitalization. By multivariate logistic regression analysis, age and comorbidity were significant predictors of AKI. All patients recovered baseline renal function without renal replacement therapy following antibiotics such as doxycycline and supportive care.

**Conclusion:** The incidence of AKI in patient with scrub typhus is 21%. Age and co-morbidity are significant predictors of AKI in scrub typhus. In case of scrub typhus-associated AKI, anti-rickettsia agent and supportive care is very important.

**Key Words:** 쯔쯔가무시, 급성신부전

Acute kidney injury, Scrub typhus