

급성 파라쿼트 중독 환자의 예후 인자

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Prognostic Factors in Acute Paraquat Poisoning

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Background: Paraquat is a widely used herbicide that is highly toxic to human. The aim of this study is to investigate the prognostic factors affecting survival in patients with paraquat poisoning.

Methods: This study included 790 paraquat poisoning patients who were diagnosed by checking plasma paraquat concentrations from January 2005 till August 2012. We divided these patients into two groups (survivors vs non-survivors), compared clinical characteristics, and analyzed the predictors of survival.

Results: The mean age of the included patients was 57 years (range, 14-95). The patients included 507 (64%) men and 283 (36%) women. Comparing clinical characteristics between survivor group (n=151, 19%) and non-survivor group (n=639, 81%), survivors were younger (47±14 vs 59±16) and had lower plasma paraquat concentrations (1.44±8.77 vs 80.33±123.15 µg/mL). On admission, serum creatinine of survivor group was lower than that of non-survivor group (0.95±0.91 mg/dl vs 1.88±1.27 mg/dL). The levels of pancreatic enzymes in survivor group were also lower than those of non-survivor group (amylase 86±71 vs 207±382 IU/L, lipase 50±64 vs 115±200 IU/L). In multiple logistic regression analysis to assess the predictors of survival, survival was associated with better initial renal function, lower amylase level, lower plasma paraquat concentration and weaker urine paraquat test results.

Conclusion: Low plasma paraquat level, good renal function on admission, favorable urine paraquat test are good prognostic factors of survival after acute paraquat poisoning.

Key Words: 파라쿼트 중독, 급성 신부전

Paraquat poisoning, Acute kidney injury