

## KSN 2017 Abstract

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### Concurrent Hemoperfusion and Hemodialysis in Patient with Acute Pesticide Intoxication

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**Objectives :** If hemodialysis (HD) and hemoperfusion (HP) are performed concurrently, water soluble and insoluble chemicals in the pesticide formulation may be eliminated more effectively in time.

**Methods :** Between January 2011 to December 2012, we used HP and HD consecutively (HP-HD group, 347 cases), and then during the second 2 years (January 2013 to December 2014), we used concurrent HP and HD (HPD group, 383 cases). We compared the clinical outcomes between the two groups.

**Results :** The death rates were higher in HP-HD group than in HPD group; (48.1% vs. 20.9%) for the overall death rate, and (81.8% vs. 57.9%) for the paraquat (bipyridylum) death rate ( $p < 0.001$ ).

In multiple logistic analyses, age ( $p = 0.013$ ), ingested volume ( $p < 0.001$ ), and HP-HD ( $p = 0.014$ ) were significant risk factors for mortality in the paraquat ingested group.

**Conclusions :** Concurrent HP and HD would be effective and safe treatment for patients with acute pesticide intoxication, in particular, paraquat intoxication.

**Keywords :** retrospective analysis, clinical efficacy, dialysis