

수술 후 hemostatics와 mucolytics의 다제사용 후 용혈성 신독성 발생에 관한 역학조사

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Postoperative Purpura-hemolytic-uremic Syndrome Following Combined use of Hemostatics and Mucolytics: An Epidemiologic Investigation

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We conducted an epidemic investigation to reveal the cause of an outbreak of postoperative purpura-hemolytic-uremic syndrome (TTP-HUS) at a tertiary care hospital.

We reviewed 1133 major thoracic operation conducted from January 1 to November 30, 2011 and five patients were identified. Operational procedure and postoperation care was standardized among thoracic surgeon at the hospital more than 10 years and nothing was changed at the period. Therefore 10 age, sex, operator, disease matched controls were selected for analysis. Hemostatics and mucolytics were suggested to increase the risk of post-operative TTP-HUS, and an additional retrospective cohort study was conducted to obtain conclusive evidence; 5541 major thoracic operation from January 1, 2007 to November 30, 2011 were included and other three cases were identified. Additional ambroxol or bromhexine (IV) on the combination of transemic acid (IV), hemocoagulase (IV), and acebrophylline (PO) showed a statistically significant association; exact odds ratio were 479.9 (95% CI 74.9-5238.0) and 14.7 (1.4-90.9), respectively.

Epidemiological evidence strongly suggested that this postoperative outbreak was caused by combined use of hemostatics and mucolytics.

Key Words: 용혈성 신독성, 다제사용, 역학조사

Purpura-hemolytic-uremic syndrome, Drug combinations, Epidemio