Analysis of related factors for hyperamylasemia in critically ill children

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Objective: To analyze the hyperamylasemia in critically ill children and investigate the related risk factors.

Methods: 1036 critically ill children admitted in PICU of Hunan Children’s Hospital from April, 2011 to October 2012 were studied. They were divided into the high amylase group (n=82) and the normal group (n=954). According to the prognosis, the high amylase group was divided into survival group (n=61) and death group (n=21), using univariate and multivariate logistic regression analysis.

Results: These indicators had statistically significant between the high amylase group and the normal group: According to the prognosis using univariate and multivariate logistic regression analysis of risk factors, these indicators had statistically significant coagulation disorder, convulsions, disturbance of consciousness, abnormal pancreas thickness, the PCIS≤80, MODS≥3, sepsis, shock, lactic acid (LA), procalcitonin (PCT) and blood glucose (BG). Including coagulation disorders, convulsions, mechanical ventilation, abnormal pancreas thickness, PCIS≤80, MODS≥3, LA, PCT, oxygenation index, albumin, C-peptide and BG. They were statistically significant between the survival group and the death group (p<0.05), multivariate logistic regression analysis of risk factors showed that LA, PCT, PCIS≤80, MODS≥3 and abnormal pancreas thickness were the incidence rates of hyperamylasemia; PCT, C-peptide, PCIS≤80, MODS≥3, shock were the prognostic risk factors (p<0.05).

Conclusions: In critically ill children who were more severe, more organ failure number, high levels of LA, PCT, BG and abnormal pancreas thickness were easily lead to hyperamylasemia; children with hyperamylasemia would have worse prognosis if they were more severity, more organ failure number, high levels of PCT, C-peptide and shock.

Biography
Lu Xiulan has completed her MD from the Xiangya Medical College, Central South University. She is the Deputy Director of Emergency Center of Hunan Children’s Hospital. She has published more than 20 papers in reputed journals in China and has been serving as an Editorial Board Member of repute.

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