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Impact of hospital management reengineering on patients with ST segment elevation Myocardial infarction: A single centre experience

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Background: The China-Japan Union Hospital of Jilin University (CJUH) supervised by the National Health Commission of the People's Republic of China and affiliated to Jilin University. The annual number of patient with cardiovascular diseases in CJUH is nearly 200 thousand. This research will discuss the impact of CJUH hospital management process re-engineering on pre/in-hospital treatment effect of STEMI patients during 2015 to 2017.

Method: 1. We divided all 605 STEMI patients were divided into three groups based on 2015, 2016, and 2017. We conducted ANOVA and chi-square tested of data including age, the ratio of gender, SO-FMC, FMC2B, cardiogram to diagnosis time, D2B, hospital days, pass ED and/or CCU, and in-hospital mortality. 2. All STEM patients were divided into groups according to methods they transported to CJUH (by oneself or by ambulance) in the three years respectively. Then analyzed with the same analysis method and indexes as above.

Statistical Results: 1. No statistical differences of the average age or racial or gender among STEM patients in the three years. FMC2B, cardiogram to diagnosis, D2B, and racial of pass ED and/or CCU decreased ($p < 0.05$). The average hospital days of 2017 was 3.5 days less than which of 2015 ($p = 0.00$). SO-FMC and ratio of in-hospital mortality decreased but no statistical differences. 2. Considering how STEM patients come to CJUH, we found time-indexes of patients by ambulance show much positive trends comparing with whom came by themselves. But in-hospital mortality has no statistical differences.

Conclusion and Discussion: According to statistical analysis, our re-engineering does have some achievements. However, there is still much to be improved. After our first milestone: The founding of chest pain center in January 2015, we successfully founded an in-hospital first aid station with ambulance in July 2017. Moreover, CJUH began to ally with other hospitals in Jilin province, to improve communication and to provide support when meet with high-risk patients, and the ally becomes stronger. We are working on and seeking more possibilities of high quality, effective and prompt rescue process for STEMI patients.

Biography

Bohan Xiao has completed her MBA from Jilin University School of Management in the summer of 2017, and postgraduate diploma studies from University of Southampton School of Medicine in 2012. After working for the District Level Center for Disease Control for three years, she has been focusing on hospital management in the past three years. She takes an active part in management process re-engineering in the China-Japan Union Hospital of Jilin University.

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