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MULTI-CENTER CLINICAL REPORT OF CARDIOPULMONARY RESUSCITATION WITH ABDOMINAL LIFTING AND COMPRESSION

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Objective: To study the effectiveness and safety of abdominal lifting and compression method in patients suffered from cardiac arrest(CA).

Methods: According to the inclusion and exclusion criteria, 72 patients from Hainan People's Hospital and Zhengzhou People's Hospital were enrolled for study of abdominal lifting and compression (ALC) method from January 2014 to June 2015. The markers of respiratory and circulatory performance of all patients were recorded, and re-collected after CPR with ALC. In addition, the data of demographics and clinical signs of patients were collected. The rates of restoration of spontaneous circulation (ROSC) and successful resuscitation were calculated. Differential analysis of single-group design univariate quantitative and qualitative data was carried out.

Results: A total of 72 patients were included finally. The ROSC rate was 15.3% (11/72) after using ALC equipment, and there was no statistically significant difference in rate of ROSC (P=0.566) between ALC and pre-test(13.0%). However, compared with NT group resuscitated without using ALC method or with using chest compression method, the rate of ROSC was significantly improved in the ALC group (15.3% vs.0.1%, P<0.01).

Conclusions: Abdominal lifting and compression CPR equipment is stable, portable and safe in practice. Abdominal lifting and compression CPR method has its prominent role in saving patients from respiratory and cardiac arrest, and it is sufficient to overcome the disadvantages of conventional CPR method.

BIOGRAPHY

Danyang Peng, Master of medicine, emergency department attending physicians of Zhengzhou people's hospital has published 5 academic papers in domestic journals, 2 of them are about abdominal lifting and compression CPR. She has participated in many clinical applications of abdominal lifting and compression CPR, and has more profound understanding about this new technology.

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