Dispatcher assistance makes significantly better incidence of shockable rhythm for out-of-hospital cardiac arrest patients in the residence with family bystander.

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Purpose

Early cardiopulmonary resuscitation (CPR) with a considerable quality is essential for making incidence of shockable rhythm on out-of-hospital cardiac arrests (OHCAs). The present study was conducted to test our hypothesis that **dispatcher assisted CPR improve the incidence of shockable rhythm^{1,2)} for the patients in the residence by family bystander.**

Material and Method

The primary end point was adjusted incidence of shockable rhythm as initial cardiac rhythm.

The CPR with dispatcher assistance were categorized into three groups as a dispatcher assisted CPR (DA-CPR), bystander-initiated CPR (BI-CPR) and No CPR. Patients were categorized into 3 groups according to their ages as 15-64 yo, 65-74 yo and 75-84 yo. The bystander is also categorized 3 groups as families, friends and others.

Fig.1 Definition of study cohort

Results

The Cox's proportional hazards regression model was used to test the significance of shockable rhythm adjusting for age, response time, gender, and dispatcher assistance.

DA-CPR:Dispatcher Assisted CPR BI-CPR: Bystander Initiated CPR

Discussion and Conclusion

The dispatcher assistance significantly improves the incidence of shockable rhythm on 15-64 yo.

Our observational study should be considered to make a better instruction for supporting the family by dispatcher assistance.

Reference

- 1) The adjusted incidence of shockable rhythm is high by the dispatcher assistance: A nationwide population based study. Hiroshi Takyu, Hideharu Tanaka, Ryo Sagisaka, Takashi Nakagawa. Resuscitation, September 2018Volume 130, Supplement 1, Pages e1–e2
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Diversity and future perspective of multi-occupational collaboration in pre-hospital medical settings

Date : June 5(Fri.) — 7(Sun.), 2020

Chairman : Hideharu Tanaka MD, PhD (Dean, Graduate school, EMSsystem, Kokushikan UNIV)

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On behalf of EMS Asia Tokyo 2020 local organizing members, I appreciate the all of attendance and look forward to seeing you at the Tokyo in 2020.

Yours sincerely,

Hideharu Tanaka

Hideharu Tanaka MD, PhD
President of 6th EMS Asia Tokyo 2020

Professor and Chairman, Graduate school, EMSsystem, Kokushikan University
Research institute of Disaster and EMS, Kokushikan

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