Post-Cardiac Arrest Care and Targeted Temperature Management Training Course for Hospital Champions: 7-Year Experience in the Educational Program Implementation for Asian Champions

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PURPOSE

- The implementation of targeted temperature management (TTM) has been shown to improve outcomes of patients resuscitated from cardiac arrest.
- Despite the potential impact on patient care and outcomes, implementation of the targeted temperature management (TTM) have not achieved widespread success due to many local barriers in some countries.
- Championship is one of important facilitators for successful implementation of the TTM after cardiac arrest (Brooks SC, et al. 2008; Kim YM, et al. 2016).
- A structured educational intervention including simulation improved TTM utilization after cardiac arrest (Blewier AL, et al. 2013).
- The aim of the study was to report the 7-year experience in implementing a post-cardiac arrest care (PCC) and TTM training course for hospital champions and evaluate the reactions and learning outcomes of Asian champions participated in the courses.

MATERIALS AND METHODS

- Course Development (2009-2010)
- Course Implementation (2010-2016)
- Course Overview
  - Target Learners: Attending physicians or fellows in emergency medicine, critical care medicine, cardiology, neurology, anesthesiology, etc.
  - Critical care nurse leaders who take care of post-cardiac arrest patients

Learning Objectives

By the end of this course, participant will be able to
1. Describe the role of hospital-based resuscitation champion for post-cardiac arrest care including TTM
2. Develop a practical protocol for post-cardiac arrest care including TTM at their respective hospital
3. Implement an integrated post-cardiac arrest care including TTM for post-cardiac arrest patients at their respective hospital
4. Perform neurological prognostication for comatose survivors after cardiac arrest and have proper communication with family members at their respective hospital

Course Schedule and Contents

- Learning (n=94, matched doctor champions)
- Satisfaction (n=149)

RESULTS

Participants (n=150)

LIMITATIONS

- Motivated but selected participants
- No objective assessment for the learning outcomes of the participants
- No longitudinal evaluation for the behavioral changes of the champions

CONCLUSIONS

- A PCC and TTM training course has been successfully implemented into the Asian champions during the past 7 years.
- Continuous improvement efforts and follow-up evaluation on impacts of the course to change the champions’ behavior and TTM use in actual clinical practice are required.

KEY REFERENCES