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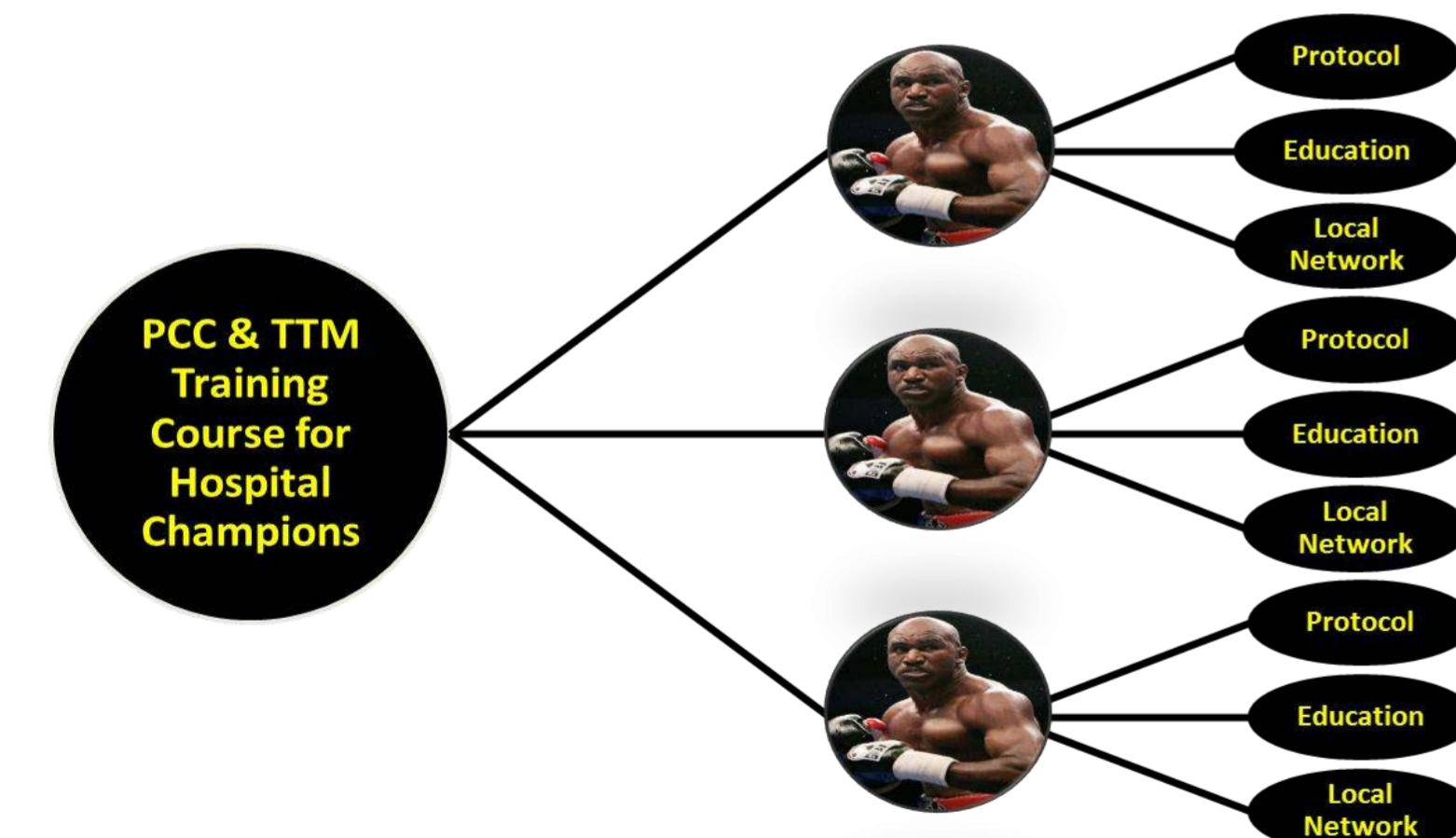
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PURPOSE

- 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 (Blewer 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.

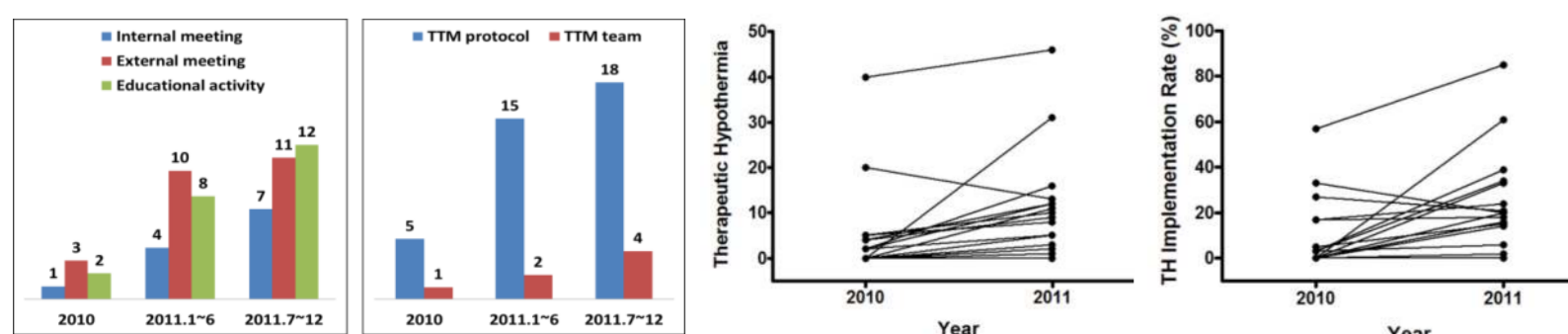
MATERIALS AND METHODS

Course Development (2009-2010)



Course Implementation (2010-2016)

2010 The First TH-HC Course (n=29, Korean Doctors & Nurses) & Pilot Study (2011-2012)



- 2011 TH-HC Course (n=23, Korean Doctors) → 2011 TH-HC Course (n=24, Korean Nurses)
- 2013 TTM-HC Course (n=19, Asian Doctors) → 2014 TTM-HC Course (n=16, Asian Doctors)
- 2015 TTM-HC Course (n=15, Asian Doctors) → 2016 TTM-HC Course (n=23, Asian Doctors)

Course Overview

Target Learners

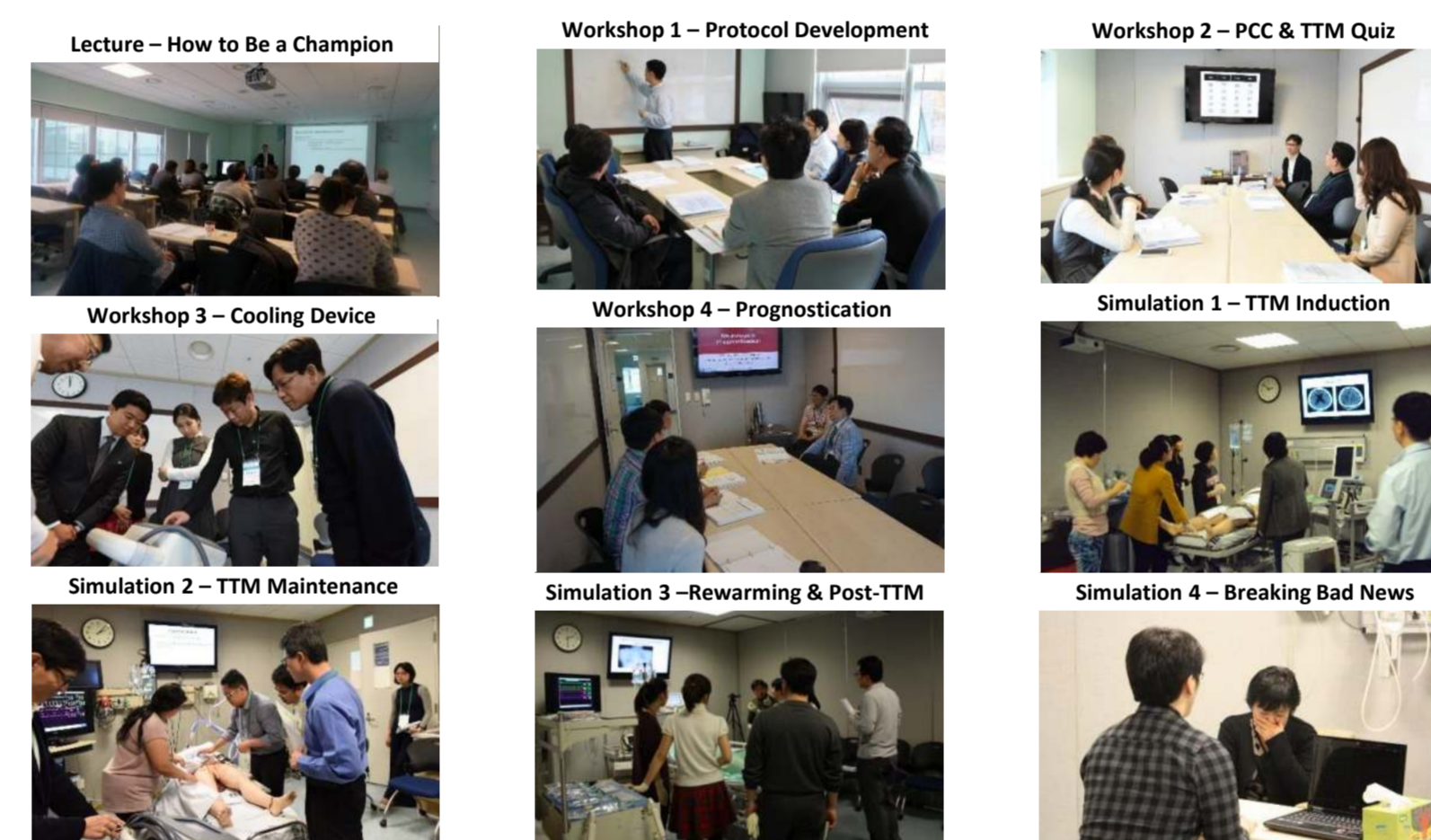
- Attending physicians or fellows in emergency medicine, critical care medicine, cardiology, neurology, anesthesiology, etc.
- Critical care nurse leaders who take care of post-cardiac arrest patients

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

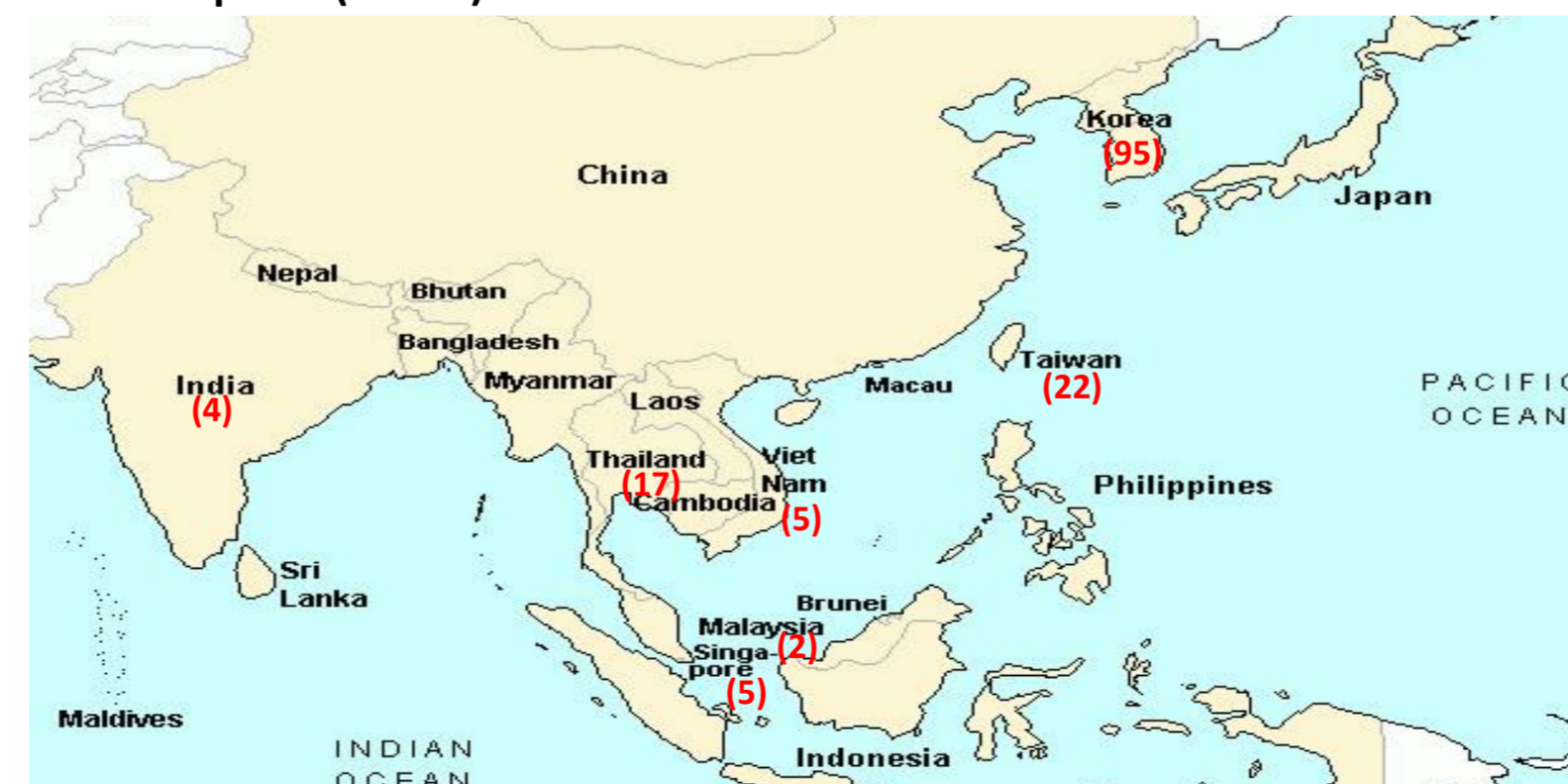


Learners' Self-Assessment & Course Evaluation

Participants assessed their knowledge, competence, and confidence for the 5 learning objectives with a 5-points Likert scale before and after the courses and evaluated the courses and were solicited written comments

RESULTS

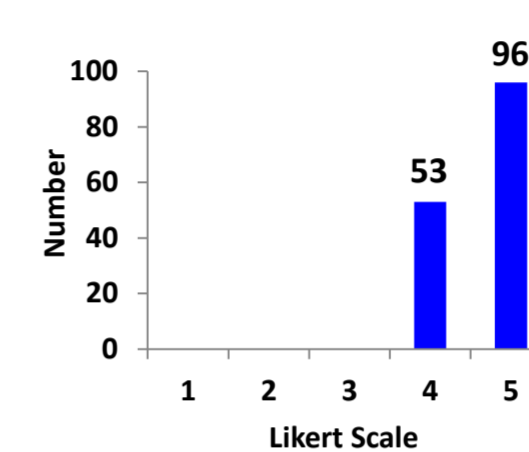
Participants (n=150)



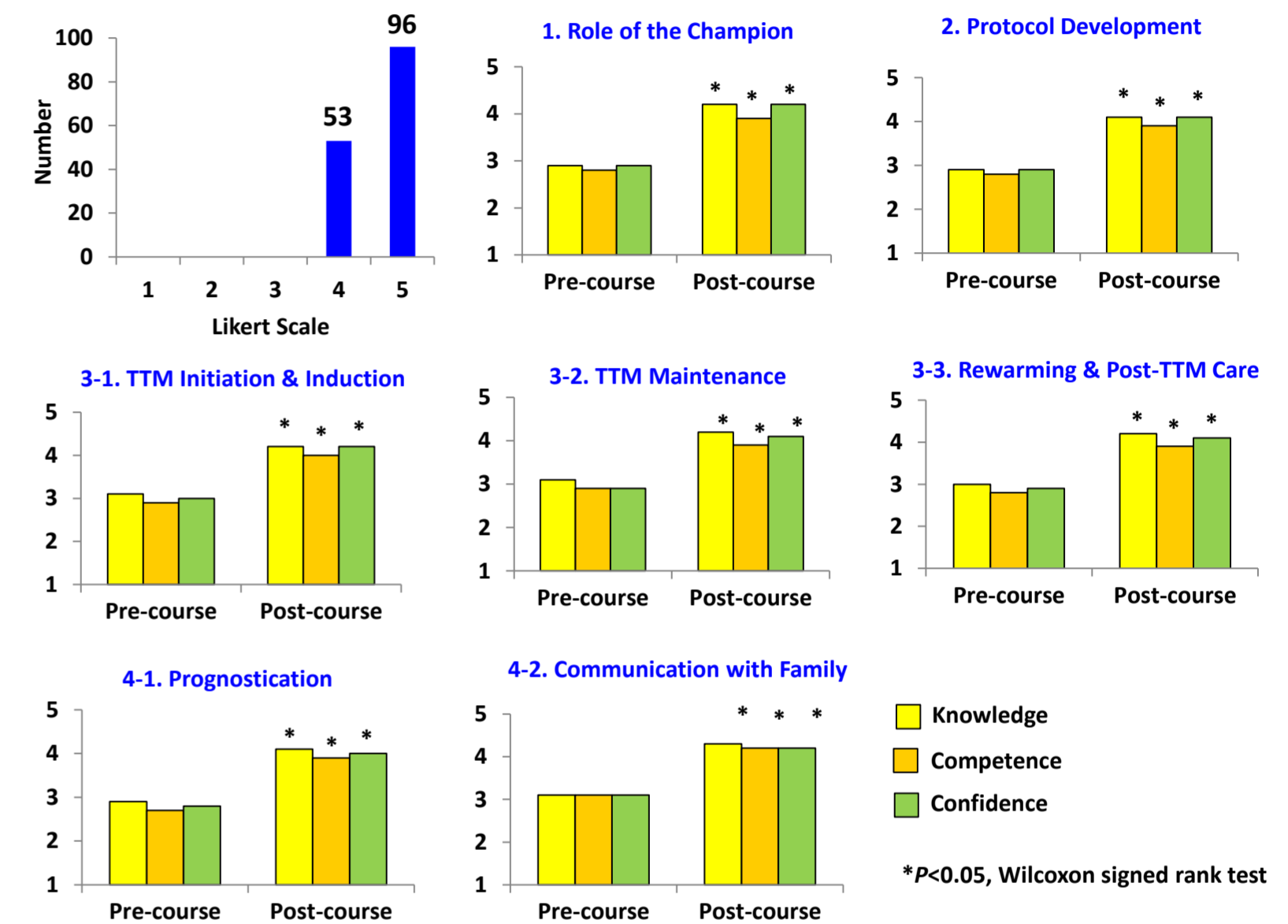
Specialty

Emergency Medicine (69), Critical Care Medicine (18), Pediatric (10), Cardiology (8), Anesthesiology (4) Internal Medicine (3), Neurology (1), General Surgery (1), Neurosurgery (1), Nursing (33)

Satisfaction (n=149)



Learning (n=94, matched doctor champions)



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

1. Brooks SC, Morrison LJ. Implementation of therapeutic hypothermia guidelines for post-cardiac arrest syndrome at a glacial pace: seeking guidance from the knowledge translation literature. *Resuscitation* 2008;77:286-92.
2. Kim YM, Lee SJ, Jo SJ, Park KN. Implementation of the guidelines for targeted temperature management after cardiac arrest: a longitudinal qualitative study of barriers and facilitators perceived by hospital resuscitation champions. *BMJ Open* 2016;6:e009261
3. Blewer AL, Delfin G, Leary M, Gieski DF, Abella BS. A structured educational intervention to improve targeted temperature management utilization after cardiac arrest. *J Crit Care* 2013;28:259-64.