

## Abstract

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Role of Rapid Response Systems (RRS) promotion course in RRS implementation

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### Objectives:

Implementation of Rapid Response System (RRS) into medical institutions, aiming at reducing the rate of in-hospital cardiac arrest rate, has been progressed in the world and led to good results. Even in Japan, the number of facilities introducing RRS is increasing. In order to implement RRS smoothly, we need to devise an implementation plan that meets the actual situation of each hospital.

### Methods:

Participants from each hospital as a team, including a physician and medical safety staff in charge who lead RRS were recruited to the workshop. We held the workshop that aimed at a guide to develop RRS to hospitals and to introduce RRS. This course was based on the TeamSTEPPS developed in the USA, and participating facilities required to formulate a RRS introduction plan referring to Kotter's 8 steps to overcome barriers to develop RRS. In order to measure the effect of this workshop, we examined the increase rate of RRS activation number of intervention hospitals compared with the control groups.

### Results:

After participating the workshop, there was a tendency that the RRS was activated more frequently in the participation group than the control group ( $p=0.075$ ). Pre-course surveys indicated that hospital executives were well aware of the significance of the RRS introduction, but there were situations that could not supply sufficient staff and time due to other priority issues and labor shortages. Post-course survey indicated that these course evaluations were significantly high as. According to self-evaluation of the facilities, in STEP5 (Empower people to act the vision) they have a big hurdle to overcome.

### Conclusions:

This course was effective in implementing RRS. This step-by-step evaluation clearly extracted the problem and provided the measures corresponding to each facility. There was a high hurdle to overcome in STEP5, which represented the attitude of working on RRS in institutions.