



# Health Care Professionals Maintain Competency Using Digital CPR Training During Pandemic



Dokkyo Medical University Hospital, Tochigi, Japan includes 1,195-beds, and plays a central role in local medical care as a special functions hospital, providing advanced medical care and developing, evaluating and training in medical care. The Emergency and Critical Care Center opened in 2002.

In 2010, the hospital began operating the Tochigi Prefecture Doctor Helicopter, which plays a part in tertiary emergency medical care throughout Tochigi Prefecture.

## OVERCOMING CHALLENGES WITH THE RQI® PROGRAM

Despite the challenges of the ongoing COVID-19 pandemic, Dokkyo Medical University Hospital (DMUH) relies on the Resuscitation Quality Improvement (RQI) program to create a consistent learning environment for a large number of students (health care professionals).

*“In the conventional Basic Life Support (BLS) provider course, the maintaining of skills after the course completion was left up to individuals, leading to considerable variations in competency. But with the introduction of RQI, we are able to keep the standard across the hospital.*

*Even in situations where hands-on group training is cancelled due to COVID-19, we can continue to provide self-directed training with sufficient consideration for infection control”*

*~ Ns. Mutsuko Nagai  
Dokkyo's Vice Director, Staff Development  
Center Dokkyo Medical University*

### Satisfaction Scores from DMUH's RQI Participant Survey:

- 94% – RQI over classroom training
- 94% – Appropriate level of difficulty for e-Learning
- 96% – Appropriate level of difficulty for RQI skills
- 78% – Quarterly implementation cycle
- 96% – RQI Skills feedback

*“It is good to be able to use RQI analytics to visualise the maintenance and improvement of students' skills.”*

*~ Migaku Kikuchi, MD  
Professor, Emergency and Critical Care Center  
Dokkyo Medical University Hospital*



#### Resuscitation Quality Improvement:

- Provides a high-reliability platform for simulation-based mastery learning implemented through low-dose, high-frequency quality improvement sessions that measure and verify CPR competence.
- Supports mastery of High-Quality CPR skills through feedback-driven deliberate practice.
- Skills sessions last approximately 5-10 minutes per quarter while cognitive learning activities last up to 35 minutes per quarter.
- Administrators will have analytic data related to all activities performed. Tracking of performance and related continuous quality improvements initiatives related to resuscitation can be tracked and monitored.
- Simulation stations deployed at locations conveniently accessed 24/7 by students, allowing skills modules to be completed during the normal shift.

## RQI IN ACTION: DOKKYO MEDICAL UNIVERSITY HOSPITAL LEADERS WEIGH IN ON THE PROGRAM'S POSITIVE IMPACT

Since its implementation in 2019, Dokkyo Medical University Hospital has utilized RQI as its standard basic life support training. Hospital leaders recognize the greater organizational impact as the program rounds out its third year

*“RQI provides a regular, self-directed training environment for a large number of students (health care professionals). The capacity to make corrections to practical skills in real-time through directive audio feedback, as well as the ability to extract and evaluate learning reports, are huge benefits to the quality of training at our institution.”*

*~ Ns. Mutsuko Nagai  
Dokkyo's Vice Director, Staff Development Center  
Dokkyo Medical University*

#### Key Benefits for DMUH:

- Offers reassurance and practical skill-building through repetitive training
- Reiterates the ability to act appropriately in clinical situations
- Provides confidence in technique in real-world situations

## LOOKING TOWARD THE FUTURE

As the program expands, Dokkyo Medical University Hospital is confident it will continue achieving increased skills competency across the organization.

