



Improving Quality of Adult CPR Performance Using CCF as a Measurement Tool

BACKGROUND

Postgraduate Training Center, Al Ahsa (PTC) offers specialized courses mainly directed to healthcare practitioners. The center trains more than 1,000 annually. Its aim to provide high quality training in which is directly reflected to patients care.



DESCRIPTION

Cardiopulmonary resuscitation (CPR) contributes to cardiac arrest survival. By ensuring High quality CPR, the patient will have higher chances of survival. One of the most important aspects of quality cardiopulmonary resuscitation (CPR), is the Chest Compression Fraction (CCF) it is the percentage of time in which chest compressions are done by rescuers during a cardiac arrest, and increased chest compression fraction (CCF) is independently predictive of better survival*

PROJECT AIM

To increase the CCF percentage from at least 60% to 80% during CPR performance in the adult ICU area by August 2020 at King Abdulaziz National Guard Hospital.

MULTI-DISCIPLINARY TEAM AND PROCESS



RESULT

On-going Final Results expected August 2020.

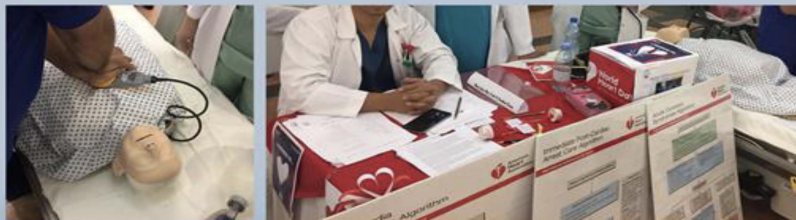
CHANGES MADE TO ACHIEVE IMPROVEMENT

Employing technology:

- Implementing the use of a feedback device that optimizes the quality and performance of CPR during all cardiac arrest cases in adult ICU area.

Healthcare practitioners' knowledge

- Raise the staff awareness through regular activities. For example, a mock survey was presented to introduce the use of feedback device to measure the CCF and eventually improve CPR performance among the staff



Continuous Training "Hands-On Sessions"

Providing high Quality CPR Training that emphasizes on the targeted CCF percentage (80 %) during mandatory life support courses.

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Sources:

- 1 Chest Compression Fraction Determines Survival in Patients With Out-of-Hospital Ventricular Fibrillation Retrieved from: <https://www.ahajournals.org/doi/pdf/10.1161/CIRCULATIONAHA.109.852202>