

Rationale

The purpose of this study is to evaluate the *impact* of simulation based Rapid Cycle Deliberate Practice (RCDP) adult code blue training on teamwork and adherence to American Heart Association (AHA) guidelines during live events at a tertiary care center.

Methods

We performed a prospective observational independent measures design for this study from April 2019-February 2020. All professionals who respond to a medical code event completed a mandatory 1-hour RCDP Adult code blue training session from July-October 2019. The training initial involved an adult uninterrupted mock code. The code was run again with directive feedback using the Rapid Cycle Deliberate Practice approach, followed by another uninterrupted mock code.

The Benefit of Interprofessional Code Blue Simulation Training on **Team Dynamics** P. Shastri, N. Guirguis, N. Patel, T. Cooper, T. Poole, H. Watts

Methods

All events were audited using a checklist and the Team Emergency Assessment Measure (TEAM) tool. These same tools were utilized to evaluate the impact of this training in real adult code blue events. Codes were audited using the 'ACMC Adult Code Blue Audit Checklist' that included a point system to evaluate the team's adherence AHA guidelines and tO follows: teamwork as resuscitation and management (3)recognition and points), response (4 points), quality of CPR (4 points), documentation (1 and time point) to epinephrine administration (if appropriate). Teamwork was evaluated using the TEAM tool (< 28 points = below average,28-40.9 = average, 41-54 =above average). The same tools were utilized in auditing real time adult code blue events before and after training.

Statistics used: We compared these using the groups Wilcoxon-Rank-Sum Test.

UIC/Advocate Christ Medical Center

Results

We audited preintervention live events, 33 pre-intervention codes, conducted in the Simulation 11 Center, and postintervention live events. The mean quality of CPR (pre = 19.6; post = 31.3, p =0.005), as well as the mean quality of teamwork (pre = 18.5; post = 34.5, p =0.0003), were significantly higher among the postintervention live events to the precompared intervention lab events. Interestingly, a statistically significant difference was not seen in recognition and response, resuscitation and management, or time to epinephrine between the pre and post intervention audits.

While our sample size was which small, have may improved performance that was based on comparisons between lab live events and İn performance, our data suggests the implementation of that interdisciplinary Adult Code Blue training strengthened team increased dynamics and adherence to AHA guidelines for advanced cardiovascular life support (ACLS).

Evidence suggests that high CPR, quality early defibrillation, and ACLS are contributing largest the factors in a successful resuscitation. Our study shows that RDCP Adult Code Blue training is instrumental in improving these parameters. Further studies should focus frequency the and on repetition of these training sessions to ensure continued competency in managing Adult Code Blue events.



Christ Medical Center

nspiring medicine. Changing lives.

Conclusion

Clinical Implications