

# Bridge the Gap: Retaining CPR Skills in Perioperative Units

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Ayumi Fielden, MSN, RN, CCRN-K, CPAN

Pamela Northrop, MSN, RN, CPAN, CAPA

We have no conflict of interest to disclose

# Introduction

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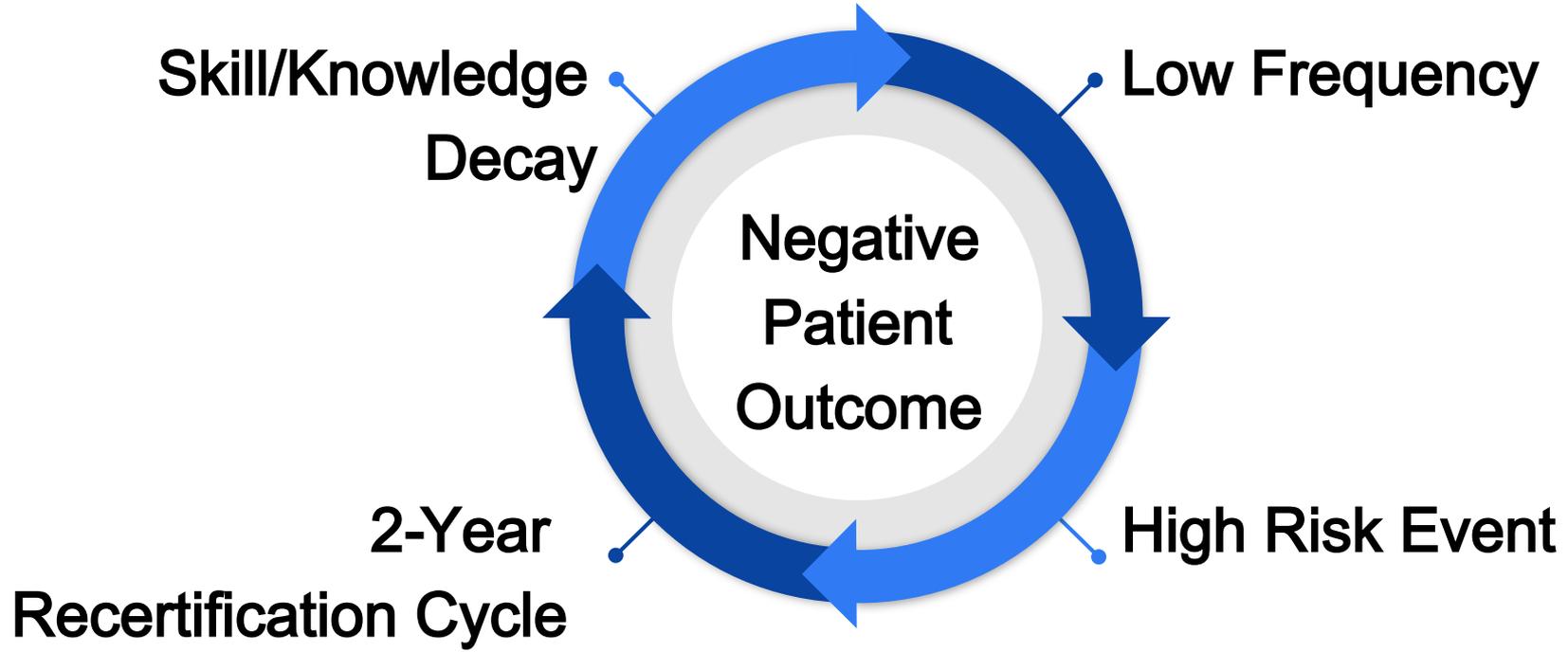


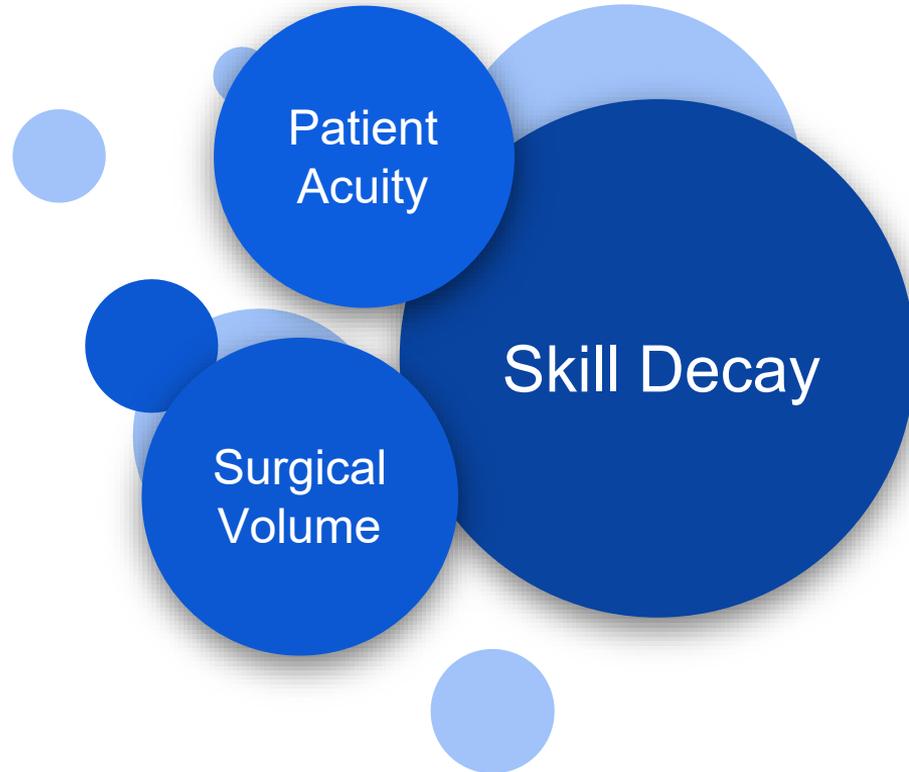
HoustonBallet

## In-Hospital Cardiac Arrest Survival Rate

<b>2015</b>	<b>25.5 %</b>
<b>2014</b>	<b>22.7 %</b>
<b>2013</b>	<b>23.9 %</b>
<b>2012</b>	<b>23.1 %</b>
<b>Baseline</b>	<b>19 %</b>

# Why?



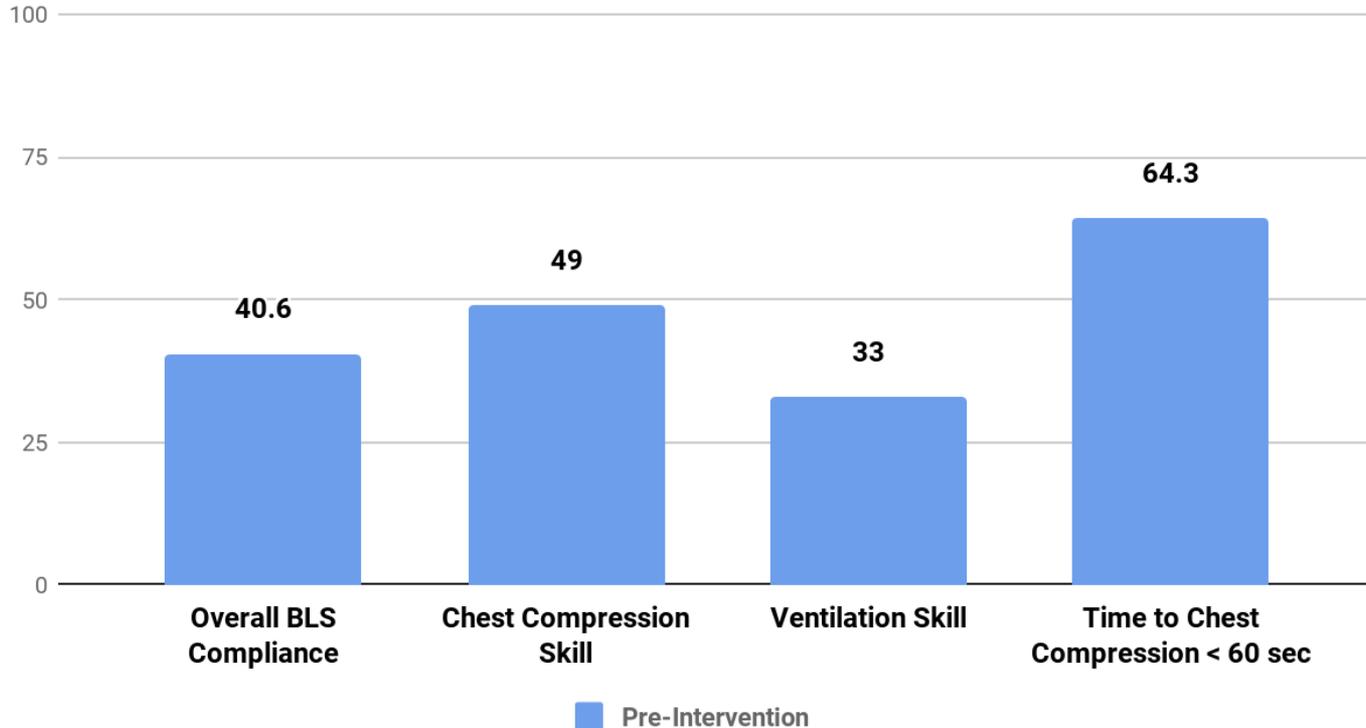


The goal of this process improvement project was to create a program that increases healthcare providers' competency in Basic Life Support (BLS) skills in compliance with American Heart Association (AHA) guidelines in perioperative units

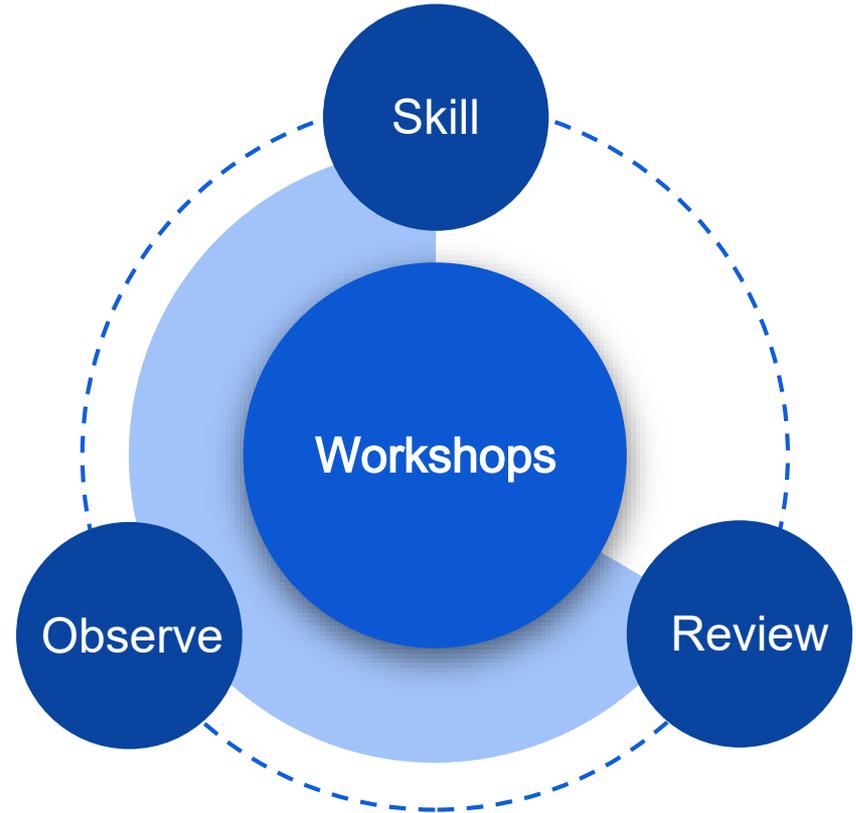




## BLS Skill Competencies

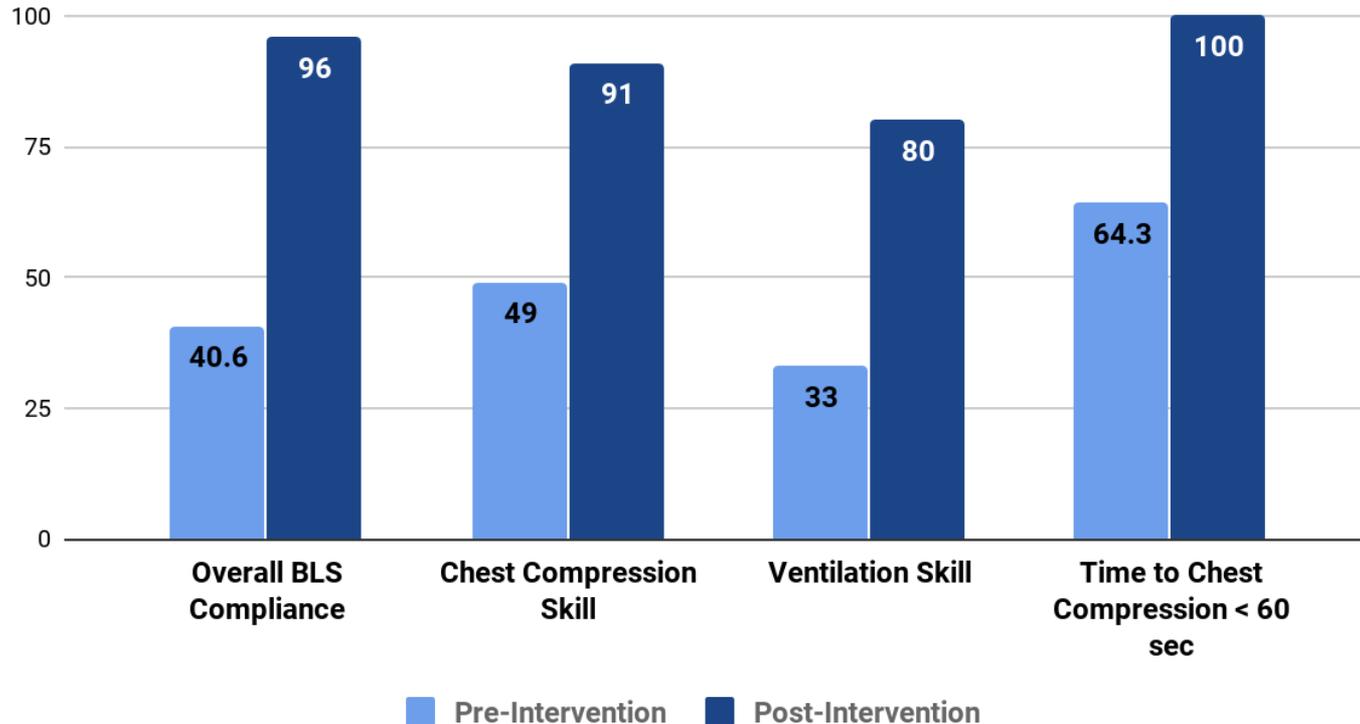


# Room for Improvement



# Results are in!

## BLS Skill Competencies



# Thank you!



## Stay in Touch!



[afielden@houstonmethodist.org](mailto:afielden@houstonmethodist.org)



[@ayumifielden](https://www.instagram.com/ayumifielden)

# References

- Ali B, Zafari AM. Narrative review: cardiopulmonary resuscitation and emergency cardiovascular care: review of the current guidelines. *Annals of Internal Medicine*. 2007;(3):171. <http://search.ebscohost.com/login.aspx?direct=true&db=edsggo&AN=edsgcl.167254752&site=eds-live>.
- American Heart Association. CPR and first aid emergency cardiovascular care- Resuscitation science: Statistical update. [https://cpr.heart.org/AHA/ECC/CPRAndECC/ResuscitationScience/UCM\\_477263\\_AHA-Cardiac-Arrest-Statistics.jsp\[R=301,L,NC\]](https://cpr.heart.org/AHA/ECC/CPRAndECC/ResuscitationScience/UCM_477263_AHA-Cardiac-Arrest-Statistics.jsp[R=301,L,NC]). Accessed September 25, 2018.
- American Heart Association. Get with the guidelines: Resuscitation fact sheet. [https://www.heart.org/-/media/data-import/downloadables/gwtg-r-fact-sheet-ucm\\_434082.pdf?la=en&hash=B09D651B2C2F0EE783EAA7C64CBE41C44466E8B1](https://www.heart.org/-/media/data-import/downloadables/gwtg-r-fact-sheet-ucm_434082.pdf?la=en&hash=B09D651B2C2F0EE783EAA7C64CBE41C44466E8B1). Accessed September 25, 2018.
- Avisar L, Shiyovich A, Aharonson-Daniel L, Neshet L. Cardiopulmonary resuscitation skills retention and self-confidence of preclinical medical students. *The Israel Medical Association Journal: IMAJ*. 2013;15(10):622-627. <http://search.ebscohost.com/login.aspx?direct=true&db=mdc&AN=24266089&site=eds-live>.
- Curran V, Fleet L, Greene M. An exploratory study of factors influencing resuscitation skills retention and performance among health providers. *Journal of Continuing Education in the Health Professions*. 2012;32(2):126-133. doi:10.1002/chp.21135.
- Cheng A, Nadkarni VM, Mancini MB, et al. Resuscitation Education Science: Educational Strategies to Improve Outcomes From Cardiac Arrest: A Scientific Statement From the American Heart Association. *Circulation*. 2018;138(6):e82-e122. doi:10.1161/CIR.0000000000000583.
- Everett-Thomas R, Yero-Aguayo M, Valdes B, et al. Clinical education: An assessment of CPR skills using simulation: Are first responders prepared to save lives? *Nurse Education in Practice*. 2016;19:58-62. doi:10.1016/j.nepr.2016.05.003.
- Herbers MD. Implementing an in Situ Mock Code Quality Improvement Program. *American Journal of Critical Care*. 2016;25(5):393-399. doi:10.4037/ajcc2016583.

# References

Huseman KF. Improving code blue response through the use of simulation. *Journal for Nurses in Staff Development*. 2012;28(3):120-124. <http://search.ebscohost.com/login.aspx?direct=true&db=ccm&AN=108123323&site=eds-live>.

Merchant RM, Yang L, Becker LB, et al. Incidence of treated cardiac arrest in hospitalized patients in the United States. *Critical Care Medicine*. 2011;39(11):2401-2406. doi:10.1097/CCM.0b013e3182257459.

Ramachandran SK, Mhyre J, Kheterpal S, et al. Predictors of Survival from Perioperative Cardiopulmonary Arrests: A Retrospective Analysis of 2,524 Events from the National Registry of Cardiopulmonary Resuscitation. *Anesthesiology*. 2013;119(6):10.1097/ALN.0b013e318289bafe. doi:10.1097/ALN.0b013e318289bafe.

Valenzuela TD, Roe DJ, Cretin S, Spaite DW, Larsen MP. Estimating effectiveness of cardiac arrest interventions: a logistic regression survival model. *Circulation*. 1997;96(10):3308-3313. <http://search.ebscohost.com/login.aspx?direct=true&db=mdc&AN=9396421&site=eds-live>

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