

#### INTRODUCTION

- Out of hospital sudden cardiac arrest (SCA) has 90% mortality
- SCA survival decreases by 7-10% for every one minute without defibrillation
- Automated external defibrillator (AED) and CPR training rate is low and varies widely across communities
- Project ADAM aims to assist schools in establishing an emergency action plan for SCA
- Project ADAM Heart Safe School (HSS) designation recognizes SCA preparedness, including:
  - AED availability
  - Written SCA plan
  - Trained SCA response team
  - Annual cardiac emergency drill
- Schools seeking HSS designation may benefit from a health care professional assisting in the process

#### AIMS

- To assess feasibility of medical students assisting schools in their efforts to achieve HSS designation
- Assess the effectiveness of training by gauging the readiness of the school to handle a cardiac emergency

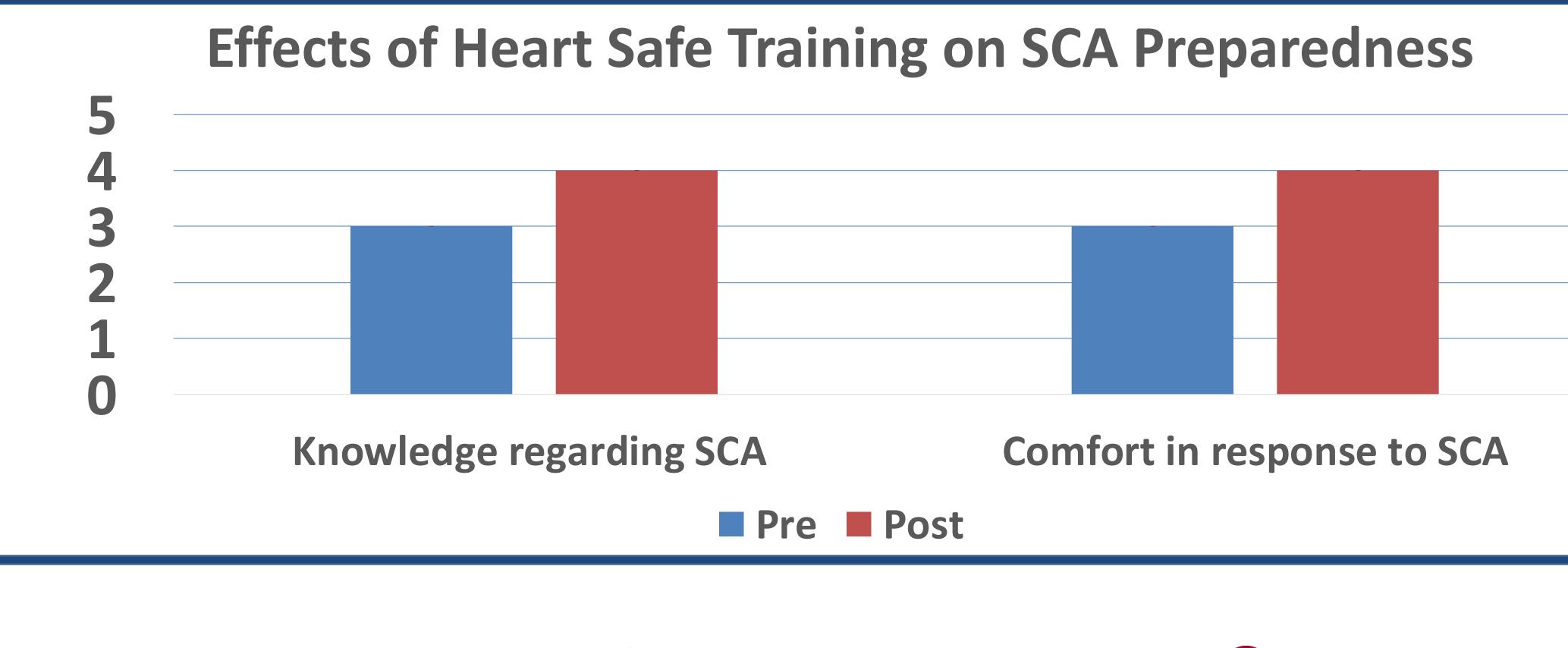
## **Medical Student Partnership with Project ADAM** and Feasibility of Heart Safe School Designation Ashley Preston, MS3, Katelyn Baier, MS3; Matthew Buelow, M.D., and Project ADAM

## METHODS

- A school district interested in HSS designation contacted Project Adam A needs assessment was performed to individualize training, and a presurvey assessed district's comfort with their current SCA action plan in 2 schools (Appendix 1 and 2) Regular training with medical students and district nurse occurred to
- address gaps and assist in HSS designation
- Post training survey assessed efficacy of training

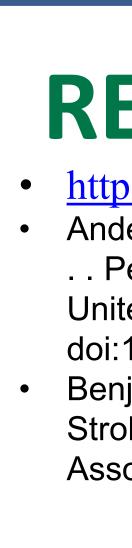
#### RESULTS

- The school district had AEDs in place
- Many staff members are trained/certified in CPR
- Identification of emergency response team and annual drills limiting HSS designation
- Scheduled cardiac emergency drill delayed until next academic year due to inclement weather and resultant 'snow days'
- Medical student training and assistance improved team confidence and knowledge of SCA preparedness





# CONCLUSIONS





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• School districts have varying levels of needs to accomplish HSS designation

HSS designation is limited by infrastructure and resources within district/school

• Needs vary between districts/schools, emphasizing an individualized approach to achieving HSS

Training with medical students improved district nurse confidence and knowledge on SCA

• Medical student and health professionals assisting districts is a feasible way for schools to accomplish HSS designation

• Future studies will include refining the training experience to optimize achievement of HSS



### REFERENCES

<u>https://www.projectadam.com/SuddenCardiacArrest/Definition</u>
Anderson, M. L., Cox, M., Al-Khatib, S. M., Nichol, G., Thomas, K. L., Chan, P. S., . Peterson, E. D. (2014). Rates of Cardiopulmonary Resuscitation Training in the United States. JAMA Internal Medicine, 174(2), 194. doi:10.1001/jamainternmed.2013.11320 Benjamin, E., Virani, S., & Callaway, C. (2018). Correction to: Heart Disease and Stroke Statistics—2018 Update: A Report From the American Heart Association. *Circulation*, 137(12). doi:10.1161/cir.0000000000000573