



CORONARY BY-PASS: THE IMPACT OF HANDS-ONLY CPR IN BATTLING HEALTH DISPARITIES

KRISTINA MILLER PA-S, MS, ATC, ANNA SENFT MILLER PA-S, BS, HEATHER BATCHELDER, MA, LPA, HSP-PA, JANELLE BLUDORN MS, PA-C

INTRODUCTION

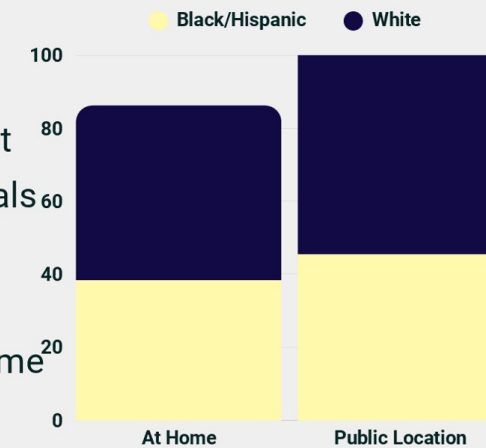
- More than 350,000 Americans experience OHCA annually - 90% resulting in death
- Black and Hispanic individuals are less likely to receive bystander CPR
- Poorer outcomes and survival rates
- Lack of accessible CPR training in these communities

PURPOSE

- Focus on Black and Hispanic populations in the greater Durham, NC community
- Measure levels of bystander CPR confidence
- Remove the following barriers: financial, geographical, course duration
- Assess if bystander CPR confidence levels increase when access to CPR education is provided

RELATED LITERATURE

- A study analyzing 110,054 witnessed OHCA's found that Black and Hispanic individuals were less likely to receive bystander CPR compared to White individuals both at home and in public locations



METHODOLOGY

- Free AHA hands-only CPR course
- Administered by DPAP students in collaboration with the CHC
- Multi-site: churches, community centers, health fairs, and other community spaces
- Eliminated cost and transportation requirements
- Pre and post surveys assessing participants' confidence
- Deidentified data entered into REDCap for analysis
- Compared pre- and post-course survey responses using paired t test

OUR PARTICIPANTS

- N = 61
- Age range: 18 - 66+
 - 24 were 66 years or older
- 45 female, 16 male
- Majority (83%) identified as Black/African American and not Hispanic/Latinx (91%)
- 33 college educated, 25 pursued graduate school
- 39 received previous CPR training
- 15 had prior experience with an AED
- 18 witnessed real-life cardiac arrest, 5 performed CPR

THE DATA

Survey Question	Pre Course	Post Course	p-value
How comfortable would you be assisting someone with sudden cardiac arrest?	2.367	3.317	0.000
How likely are you to perform CPR in a situation when it is needed?	2.82	3.558	0.000
Do you have reservations about performing CPR?	0.483	0.069	0.000
How confident are you that you can place the AED on the individual?	1.9	3.683	0.000
How confident are you that you can check for responsiveness from the individual?	2.484	3.6	0.000
How confident are you that you can perform CPR if needed to in a real-life situation?	2.22	3.593	0.000
How confident are you that you can continuously perform CPR until a medical team arrived and took over?	2.322	3.542	0.000
How much would concern of doing CPR wrong get in the way of you doing CPR right now?	3.017	1.407	0.000
How much would lack of CPR training get in the way of you doing CPR right now?	3.121	1.362	0.000
How much would being unsure about the signs of cardiac arrest get in the way of you doing CPR right now?	2.7	1.35	0.000

CONCLUSION

- Timely bystander CPR can significantly improve survival rates
- Our data demonstrates that increasing accessibility to CPR education increases confidence and likelihood of performing CPR
- Following completion of a hands-only CPR course, participants reported a statistically significant decrease in barriers to performing CPR

FUTURE

- Disparities in CPR administration reveal inequities in access
- This data illustrates the benefit of promoting inclusive CPR education to address barriers to timely intervention and thereby ensuring equitable healthcare outcomes
- Encourage PA students and programs to offer accessible CPR courses to their communities

REFERENCES

1. GARCIA RA, SPERTUS JA, GIROTRA S, ET AL. RACIAL AND ETHNIC DIFFERENCES IN BYSTANDER CPR FOR WITNESS CARDIAC ARREST. N ENGL J MED 2022; 387: 1569-1578