



RACE CARS Regional Approach to CV Emergencies Community

Lisa Monk MSN, RN, CPHQ Director NC RACE CARS

https://racecars.dcri.duke.edu/ http://www.heartrescueproject.com/

Mission Lifeline and RACE CARS

- Discuss community strategies to improve Cardiac Arrest Care
- Review Grants Program





"Is it just me or is it a bad idea to eat at a place that prints CPR instructions on their placemats?"

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Public Health Crisis:

- Have significant impacts on community health, loss of life, and on the economy
- Need transparency of data
- Creates accountability
- Can help leverage resources

North Carolina: RACE CARS

- Challenges
 - EMS response times vary from 4-10 minutes, rural communities even longer
 - Victim's need CPR started within 4 minutes or brain damage begins to occur
 - At 10 minutes, without CPR, survival is not likely
- You can help by learning:
 - Early recognition of SCA
 - Early Access call 911
 - Early CPR



Cardiac arrest in North Carolina From the CARES Registry:

Bystander CPR 23%

AED Use 1.3%

Public CPR training 3% / year

32% Survival Rate

(Utstein criteria)

Original CARES data from Wake, Durham and Mecklenburg Counties

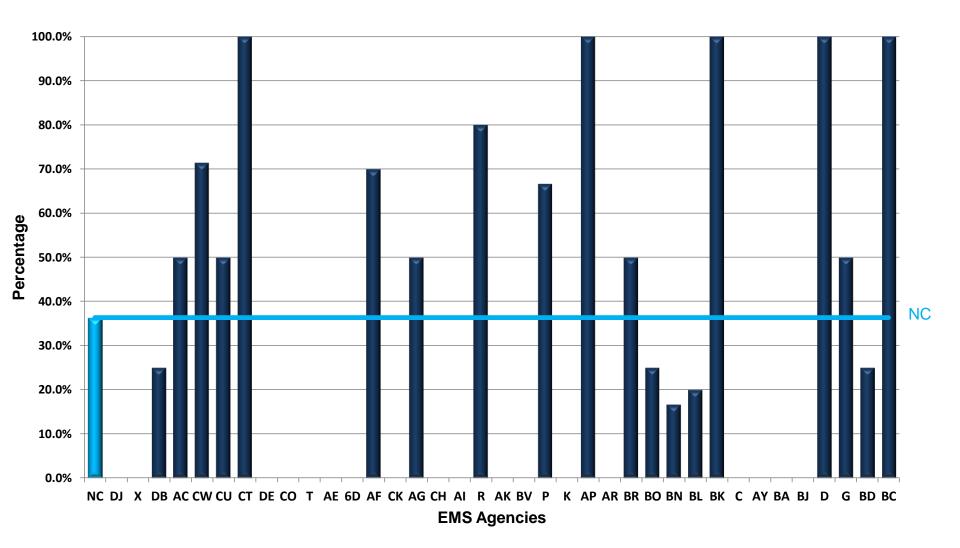


North Carolina CARES By-Stander CPR Rate in Public Places* 2012 May 29, 2013



Every second counts. Every action matters.





^{*} Location Types Public/Commercial, Industrial, Recreation & Transportation

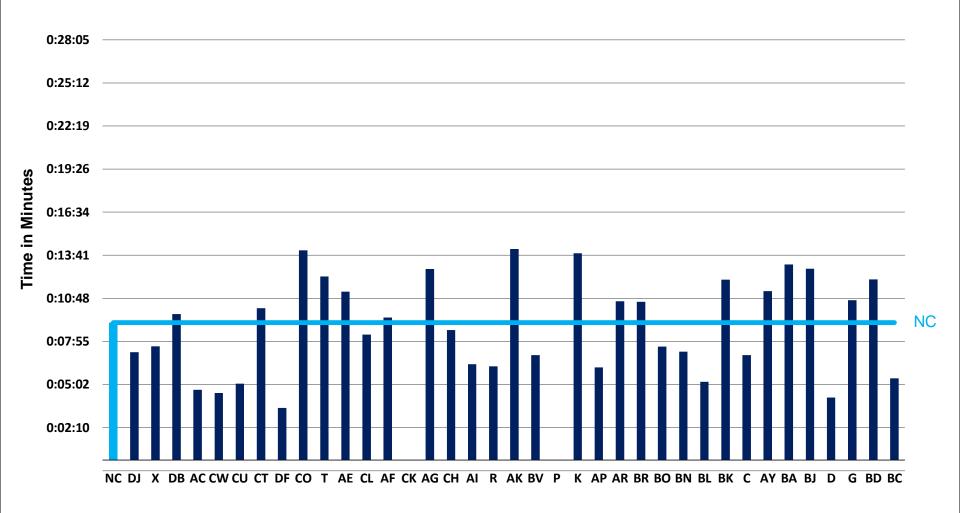


North Carolina CARES Mean Time to CPR* 2012 May 24, 2013



Every second counts. Every action matters.





Adult Chain of Survival



- 1. Immediate recognition of cardiac arrest and activation of the emergency response system
- 2. Early CPR with an emphasis on chest compressions
- 3. Rapid defibrillation
- 4. Effective advanced life support
- 5. Integrated post-cardiac arrest care

HeartRescue Flagship Premier Partner Program:

1st Chain: Community Response

- i. Early SCA Recognition
- ii. Early 911
- iii. Early and effective bystander CPR or CCC
- v. Early Public Access to AED

2nd Chain: Pre-Hospital Response

- i. Enhanced dispatch
- ii. Enhanced/high performance CPR or CCC
- iii. Defibrillation care (e.g. one shock therapy for VF patients)
- iv. Pre-hospital hypothermia
- v. Drug delivery (e.g. Intra-osseous drug delivery)

3rd Chain: Hospital Response

- i. Patient triage to Resuscitation Center of Excellence
- ii. Hypothermia as indicated by local protocol
- iii. 24/7 Cath Lab
- iv. Patient indicated therapies provided (e.g. ICD, PTCA, stent, CABG)
- v. Post survival patient and family education and support

Community Plans:

Goal: Increase the rate of bystander CPR and AED use

- Coordination by hospitals
 - Survey to understand what resources exist today
- Certification vs Education
 - AHA/Red Cross
 - RACE CARS developed materials
- AED devices funding and identification

- Train all hospital employees of some level of CPR
- Train all heart patients and families on discharge

EMS, First Responders, and Hospitals will work together to off community education

Community Updates:

- House Bill 837 -passed
 - requires students to learn CPR
 - pass a test showing proficiency in order to graduate
 - Effective with the Class of 2015
- House Bill 914 -passed
 - requires at least one AED in every state building
 - state workers must be trained to use them



Community Training

Objective: To improve the rate of bystander CPR			
Educ	Education		
0	Identify leaders and interested community members to join your team. This should also include local hospitals, EMS agencies, fire, police, and community colleges		
	Survey the community to understand what education exists around cardiac emergencies including CPR training, health fairs, hospital offerings, other health agency offerings		
	Seek funding from local businesses, find grant opportunities on line, or partner with existing offerings		
	Use RACE CARS material and/or AHA materials		
	Train the Trainer – identify volunteers who are willing to teach community offerings and train them how to run a community education offering		
0	Participate in existing offerings or schedule your own – YMCA's, churches, Rotatory, Kiwanis, sporting events, events at the local stadiums/coliseums, schools-be creative		
	Advertise: send emails, ask to post signs, talk to local TV/radio stations, be creative		
٥	Count how many are trained at each event: Use this link to provide your event information: https://duke.qualtrics.com/SE/?SID=SV e4FROMWMPQ8DqNC This information includes: event name, location, numbers trained, and type of training		
	We will be tracking bystander CPR rates and survival rates in every community across NC		

الممم	RACE CARS Community Report May 22, 2013			
		July 1, 2012 To June 30, 2013	July 1, 2011 to June 30, 2012	July 1, 2011 to June 30, 2013
14	Metric	Count	Count	Total
100	meure	Count	Count	Total
THE RELEASE	# of participants trained:	8,426	10,230	18,656
	Events	86	125	211
		Percentage	Percentage	
	Method			
	Discussion	21%	20%	
	Lecture	200/	0.404	
	Demonstration	26%	21%	
	Scenario	040/	16%	
	Handouts	24% 7%	19%	
	DVD Practice	22%	3% 21%	
	answers n=322	2270	2170	
	Content			
	Stroke	12%	13%	
	Heart Attack	15%	15%	
	Cardiac Arrest	17%	17%	
	Recognition of Emergency	17%	17%	
	Calling 9-1-1	17%	17%	
	Compression Only CPR	17%	17%	
	Breathing and compression CPR	2%	3%	
	AED	4%	2%	
	Counties Represented	16%	22%	



Public Access Device:

American Heart Association and American Red Cross CPR Training

Identify AHA and ARC classes for communities

locations with >250 people

Publ	ic Access Defibrillation Program
	Identify leaders and interested community members to join your team. This should also include local hospitals, EMS agencies, fire, police, and community colleges
	Survey the community to identify locations of AED's.
	Obtain contact information for the responsible party for each AED
	Work with local EMS to get the AED locations into their 911 system (ability to track AED info – when pads expire, battery expiration, etc)
	Seek funding from local businesses or find grant opportunities to fund AED's for

MED Challenges:

- AED's already placed in community
- Maintenance:
 - Battery and Pad life
- Location reported to 9-11
- How do we find, report, and track existing AED's?

Strategies:

- Investigate national, local, and school AED tracking systems
- Call businesses, schools, churches, health clubs
- Media campaign to locate
- Other: intern, HOSA project, club project

Celebrate Success?



Why is it important to Celebrate Success?

- Provides positive feedback
- Energizes all parties involved
- Builds support for your program
- Provides solid examples of success – for others to copy.

Ways to Celebrate

- Early outcome feedback to <u>all</u> parties involved.
- Annual Survivor Dinners
- Individual Case Celebrations
- Certificates for all involved.
- Invite/Inform Press as appropriate.
- Videos

Grant Program:

- Grant Objectives:
 - Increasing bystander CPR rates
 - Increasing bystander AED use
 - Improving high quality CPR and Pit Crew approach to resuscitation

Funding Priorities:

- Strengthen the "Community Response" in the Chain of Survival
- Improve System of Care in Community
- Implement sustainable and measurable strategies
- Collaborate with external partners across multiple agencies



Eligibility Criteria:

- Actively participating in initiatives that improve outcomes of SCA
- The region from which the grant covers must be actively submitting data into the CARES Registry and agree to continue for at least one year after grant awards are made
- Funding requests for equipment must include a plan to implement education, training and/or outreach programs, as well as a maintenance plan to ensure sustainability

Process

Size and Term:

- Grants shall range in size from \$2000-\$5000
- Grants are for a one year period
- If your program requires IRB approval, the approval must be obtained before grant funds can be issued.

Application:

- No more than 2 pages (excluding budget)
- Sample Budget worksheet included
- Will send by email
- Post on website after first round (pilot/feedback)

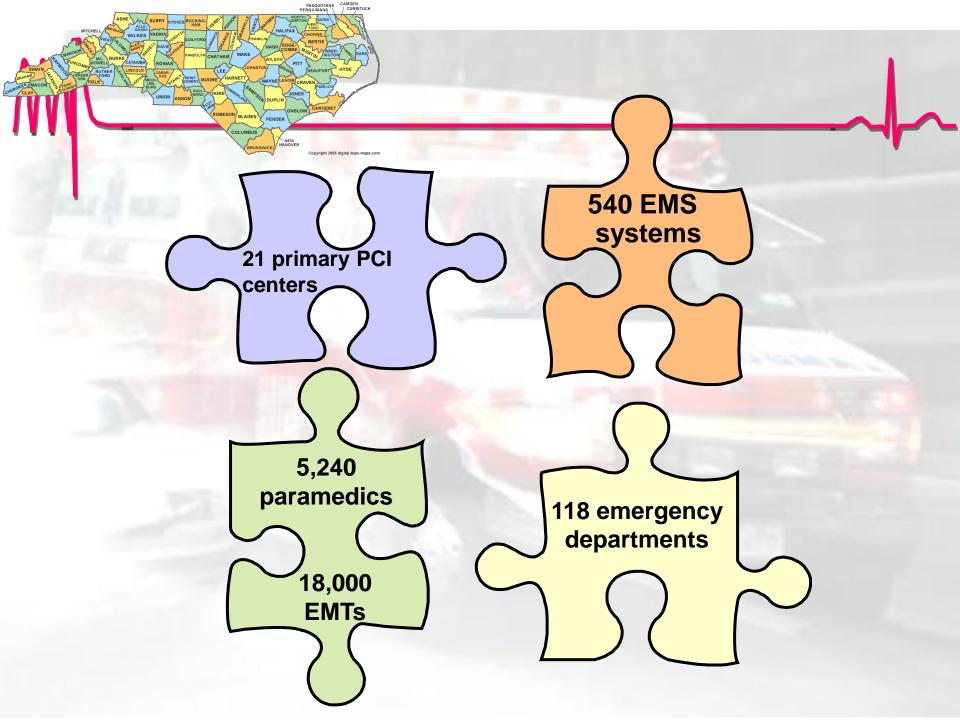
Deadlines:

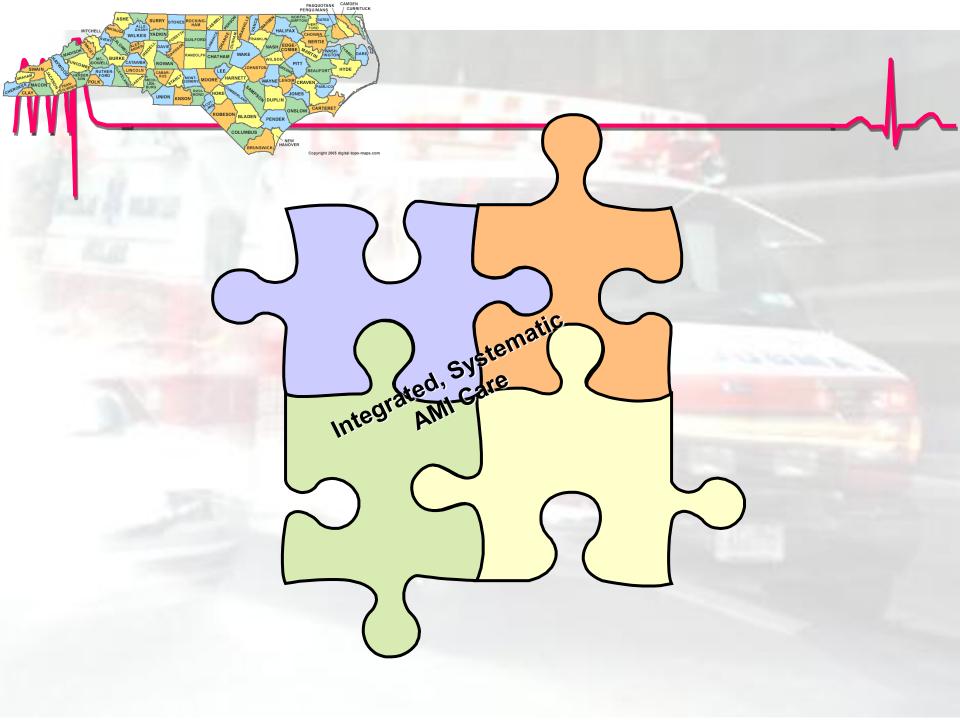
- March 31, 2014 notification of award by April 30
- April 30, 2014 notification of award by May 30
- May 30, 2014 notification of award by June 30
- June 30, 2014 notification of award by July 31

Improving outcomes in cardiac arrest

- Conclusions:
- Cardiac arrest is common and the third leading cause of death.
- Victims of out of hospital cardiac arrest are unlikely to survive
- Simple interventions in the chain of survival are likely to improve survival
- Data drives change

USE YOUR CARES DATA
TO IT'S FULL POTENTIAL!





Let's make NC the best place in the country to have a heart attack or a cardiac arrest!



