

# "Resuscitation Academy (RA) 10-Step Implementations in the PAROS Group"

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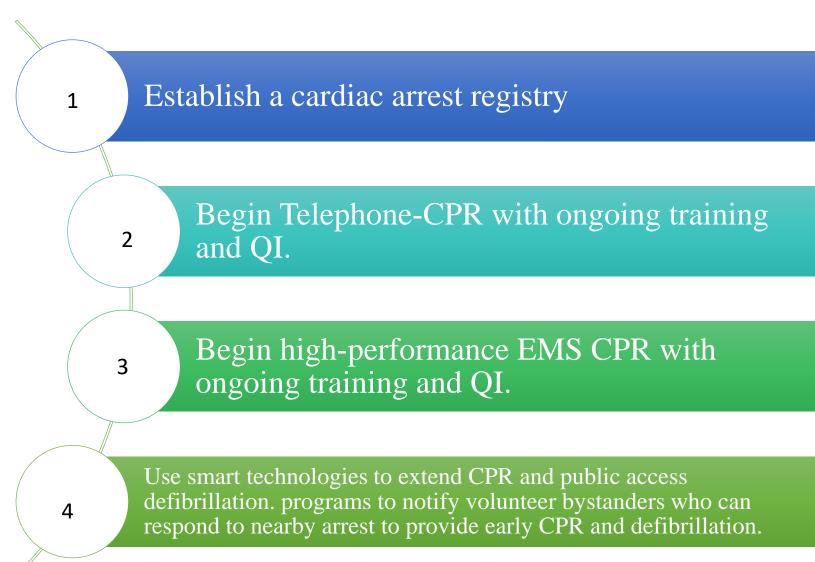
#### **External collaboration**

- Osman Faheem (Department of Medicine)
- Minaz Mawani (Department of Medicine)
- Munawar Khursheed (National Institute of Cardio

Vascular Disease NICVD)

• Junaid Razzak (John Hopkins University Bloomberg)

### Objectives of research-Pakistan site





#### Cardiac arrest registry

- Pilot registry set up since 2015
- Started with 4 hospitals two public and two private hospitals
- Now extended to 11 hospitals. (3 Public and 8 private)
- Enrolled 1064 cases.

# **Registry Sites**

#### Public Institutions:

- 1. Jinnah postgraduate Medical center
- 2. Karachi Institute of Heart Disease
- 3. National Institute of Cardio Vascular Disease

#### Private Institutions:

- 1. Tabbah Heart Hospital
- 2. Darul Sehat Hospital
- 3. Memon Medical Institute
- 4. Chiniot Hospital
- 5. Aga Khan University Hospital
- 6. South City Hospital
- 7. Patel Hospital
- 8. Indus Hospital





## Public hospital sites



# High Performance EMS CPR

- Provided training to EMS and ambulance crew
  - AMAN, Alamgir, Al Mustafa
  - 50 ems staff trained so far



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### Layman training for Hands only CPR

- Rangers, traffic police, Sindh Police, School teachers and students (590 trained)
- Refreshers training conducted (within six months) (277 trained)
- Developed Master trainers 160
- Knowledge Attitude and Practices KAP survey pre and post CPR training

#### Tool



#### Knowledge Assessment Questions:

1.	What do you think "Cardiopulmonary resuscitation (CPR)" means?	ار آپ کے خیال ش کالی آر (CPR) کا کیامطلب ہے؟
а	To apply strong compression to the chest at certain intervals	a سیسنے کوایک مخصوص وقفہ پر زور دینا
b	To compress the heart by directly opening the chest wall.	b سیسے کو کھول کر دل کاڈائریکٹ مساج کرنا/دل کودیانا
с	I have no idea	c میں کچھے کوئی اندازہ تہیں ہے
2.	Which of the following may be a sign of sudden heart arrest? (You can mark more	۲۔ ان سے کو تی طامت الجائل دل بتر ہونے کی طامت بن ؟
	than one option)	(ایک سے زیادہ شخب کر سکتے میں)
а	Loss of consciousness	a بے ہو شی
b	No breathing/ Abnormal breathing	b سائس کاند آنایارک دک که آنا
с	No Pulse	c ول کی د هر کن کارک جانا/ نبض کانہ چلنا
d	A person sitting or standing suddenly collapsed	d سمن شخص کااچانک سے کرجانا
е	Chest pain	e سیسنے /دل کادرد
f	I don't know	f میں شہیں جانتا /معلوم شہیں
3.	How can the consciousness state of the individual be determined? (You can	سر کی شخص کے ہو ش دحواس ش ہونے کا تقین کیسے لگایا جا سکتا ہے؟ میں میں میں میں ک
	choose more than one option)	(ایک سے زیادہ شخب کر سکتے ہیں)
а	No response when called	a جب آواز دی توجواب نادین
b	No response when tapped	b سیچھپانے/چھونے/بلانے یہ حرکت تہ کرنا
с	Not moving at all	c كوتى تيمى حركت نه ہونا
d	None of the above	d ان میں ہے کوئی شہیں

#### Attitude and practice Questions:

1.	Have you ever seen CPR being performed?	ا بر کیا آپ نے مجھی می لی آمر (CPR) ہوتے ہوئے دیکھل ہے ؟
а	Yes	ي بر بال
b	No	b ئىرى
2.	If yes then where?	۲-۱ گریال توکیل بو یکھا ہے؟
а	Television	۲-۱ کُمبال کوکبال دیکھا ہے؟ a کُمبال کوکبال دیڑن
b	Social media /Facebook	b فیں بک یاسوشل میڈیایہ
с	Real life scenario	c حقیقی زندگی میں
d	Others	d پاچگر کہیں اور
Please specify others		کہیںاور کی وضاحت
3.	Do you know how to do CPR in the case of cardiac arrest (namely, sudden death)?	٣- كياتَكويت ب كدول بند، وفي من أر (CPR) كي كرت في ا
а	Yes	a بال
b	No	ئىي b
		اكراب كايواب فين بي وسوال فير 4,5,6,7 يوودون
4.	Have you received any CPR training?	ا كرآب كايواب تمين بر Ferel نير 4,5,6,7 يودون ٢- كياآب كمين ي في آر (CPR) كى تربيت ل ب
а	Yes	a ہاں
b	No	ئېيں b
5.	If your reply is yes to the above question, where did you receive the training?	۵٫۱ کُرَبَّ کاج اب ال بے توکیاں سے کا
а	At School	a اسکول میں



### Training to Rangers Pakistan



### Training for Traffic police and School students





Thursday, July 4, 2019

### Mass CPR awareness







# Use of smart technology – mobile based app

- Good Sam app (UK based app) for alerting responder to provide CPR
- Memorandum of understanding (MOU) has been signed between AKU and Goodsam App
- Registration as Responder has been done
- Demonstration has been given
- We will do pilot in upcoming months



# Telephone assisted CPR

- Providing CPR instructions over phone by EMS dispatcher
- Collaborated with AMAN foundation
- Collected audio taped dispatcher calls five months (CPR instructions given on unconscious patients)
- 200 calls re-listened/analyzed for quality of dispatcher assisted CPR so far
- Data collection and entry on going

### Control room and Telephone assisted CPR



### Outcomes

#### AKU research group

- Aga Khan University hospital developed multi-disciplinary research groups
- Each group is focused on a particular theme of people from different departments and institutes

#### University grant application:

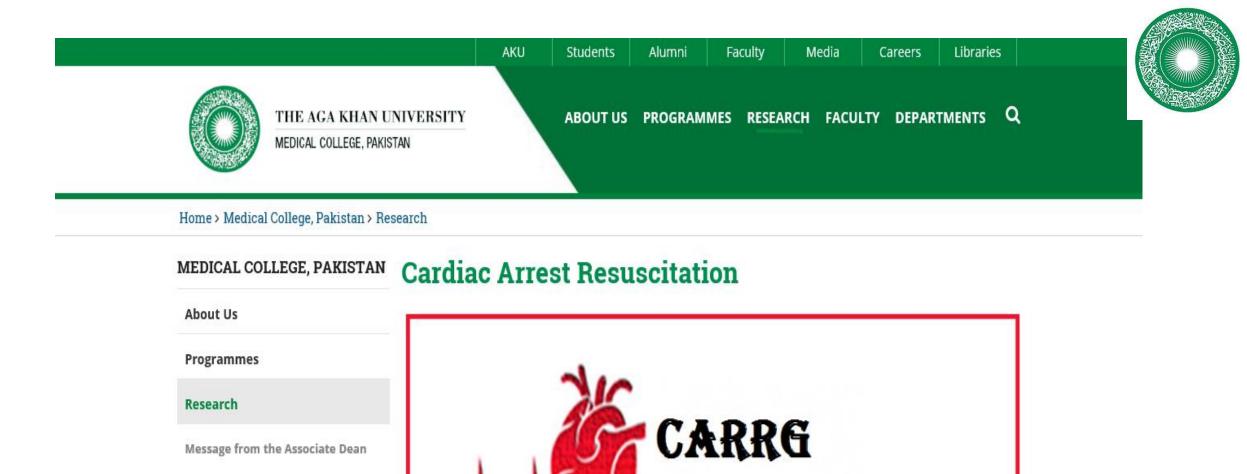
• Assessing hospital capacity and practices for managing cardiac arrest: A mixed-method study from Karachi, Pakistan

#### Manuscript Write up:

• In analysis and planning phase

#### Consortium:

- Cardiac arrest resuscitation research group (CARRG)
- More than seven NGOs and EMS organizations joint together to work on same interest.



**Research Groups** 

PhD in Health Sciences

Application for Ethical Review NHSRS 2018: Emergency Medicine

Resources

Cardiac Arrest Resuscitation Research Group

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#### Cardiac Arrest Resuscitation Research Group (CARRG)







## Future plans

- Future grants  $\rightarrow$  related to new questions arising
  - Training of hospital staff (proposal has been developed)
- Advocacy/policy dialogue-strengthening EMS
- CPR in schools curriculum
- More collaborations for research and developing registry

