



Resuscitation Academy
Temasek Foundation-SingHealth
Pre-hospital Emergency Care Programme
in Southeast Asia



Phase 1

***Development of a
Pre-hospital Emergency Care
(PEC) Systems Assessment
Tool for
Low Resource Settings
(10 Steps for LMICs)***

Background

- Need for quality improvement metrics in low-resource PEC systems to improve care.
- Causes of morbidity and mortality in low-income areas may be different from high-income areas, therefore we cannot apply existing tools developed for high income settings.
- A tool to assess developing PEC systems at the service level care to improve prehospital emergency care in these settings is needed.

Grant Award

- Funder: Laerdal Foundation
- Grant Partner: Duke-NUS Medical School
- Collaborator: Duke University, Pan-Asian Resuscitation Outcomes Study (PAROS) Network, Asian Association for Emergency Medical Services

Conceptual framework of proposed tool

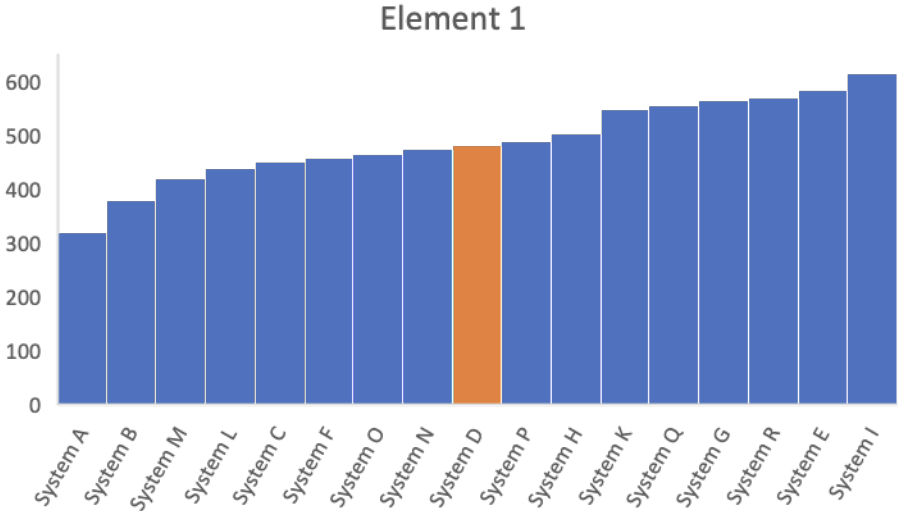
Individual system performance

Cardiovascular emergencies	Trauma	Perinatal mortality	
Green	Yellow	Red	Element 1
Yellow	Green	Green	Element 2
Yellow	Red	Red	Element 3
Red	Green	Yellow	Element 4
Green	Yellow	Green	Element 5
Green	Red	Green	Element 6
Red	Yellow	Yellow	Element 7
Red	Green	Red	Element 8
Yellow	Green	Yellow	Element 9
Green	Red	Green	Element 10

Data elements spanning across 1 or more of the 3 pillars of focus

Measurement of performance on elements through simple visualization

Benchmarking



Aims

- Aim 1: Explore potential elements (barriers, enablers and performance indicators) of assessment for developing PEC systems in Southeast (SE) and South Asia using focus group discussions and survey
- Aim 2: Using a modified Delphi technique conducted through a one-day consensus meeting, we will partner with key stakeholders and international experts to inform modification of the GRA 10-step program and integration of other PEC elements identified in Aim 1 to develop a broader developing PEC system assessment tool encompassing cardiovascular, trauma, and perinatal emergencies.
- Aim 3: Pilot a systems assessment tool for developing PECs in three low-resource settings in SE Asia. Outcome measures will include acceptability, self-efficacy, usability, and change in measurements.

Phase 2

Resuscitation Academy

Asia:

Training Programme

**For Implementation of the PEC
Systems Assessment Tool**

Aims

1. To **improve outcomes from time-sensitive conditions** such as cardiovascular, trauma, and perinatal emergencies in low resource settings.
2. To **increase the capacity of prehospital emergency care systems and healthcare professionals** for management of time-sensitive conditions.
3. To **develop systems assessment tools** for use in various prehospital emergency care settings, in particular low resource settings.
4. To **build a network of prehospital emergency care systems evaluation experts** with the ability to assess gaps in systems, develop priority matrix, and action plans.

Grant Award

- Funder: Temasek Foundation
- Grant Partner: Singapore Health Services Pte Ltd
- Collaborator: Pan-Asian Resuscitation Outcomes Study (PAROS) Network (supported by Asian Association for Emergency Medical Services)
- 3 year program

Target Participants

- Pan-Asian Resuscitation Outcomes Study members
- Asian Association for EMS members
- EMS Medical directors, paramedics, EMTs, first responders, healthcare workers, PEC/EMS administrators/officials, National Disaster Management Organisations, leaders in community-based PEC organisations

Partner Countries

- Indonesia
- Malaysia
- Thailand
- Philippines
- Vietnam



Global
Resuscitation
Alliance



Resuscitation Academy: Programme Activities

Year 1

- **Virtual/Hybrid Sessions** – Two sessions will be conducted over 3 days. First session on 21 May 2022. Second session in November 2022.

Year 2

- **Virtual/Hybrid Sessions** – Third session will be conducted over 2 days in January 2023.
- **Master Trainer Programme** – 30 selected participants who have attended and completed the whole 5 days virtual sessions will be invited to a face-to-face Master Trainer Programme held in Singapore.

Year 3

- **Local Training Programme** – Master trainers to conduct 3-day local workshops (Resuscitation Academy) in their own country

Expected outcomes of program

At the end of the program, participants will be able to:

- Develop methodology to evaluate PEC systems and to utilize a PEC self-assessment tool to identify existing gaps
- Develop a priority matrix and further action plan to address those gaps
- Streamline existing and enhance system improvements to meet international benchmarks of development of PEC systems.
- Enhance readiness for future pandemic/Disease X

