Introduction to the Global Resuscitation Alliance

A/Prof Marcus Ong
A global network which focuses on collaborating to catalyse improvement to survival

Implement best practices to increase survival from sudden cardiac arrest

Help educate EMS leaders about best practices and provide tools to help improve survival in their communities

Target of increasing survival rates by 50 percent.
The Enhanced Chain of Survival
(adapted from the report: A call to Establish a Global Resuscitation Alliance)

- Leadership, Training, Quality Improvement & Culture of Excellence frame, surround, and embed the core links of care – **Frame of Survival**
- Together the chain of survival and frame of survival nurture, sustain, and define a high-quality EMS system.
Importance of the Frame of Survival also reflect in the Utstein Formula for Survival

- Chances of survival are determined by the efficiency (quality) of the education and the local implementation
Resuscitation Academy Model to Improve Community Survival Rates
(adapted from the report: A call to Establish a Global Resuscitation Alliance)

Ten Steps to Improve Cardiac Arrest Survival
1. Establish a cardiac arrest registry
2. Begin Telephone-CPR with ongoing training and QI
3. Begin high-performance EMS CPR with ongoing training and QI
4. Begin rapid dispatch
5. Measure professional resuscitation using the defibrillator recording (and voice if possible)
6. Begin an AED program for first responders, including police officers, guards, and other security personnel.
7. Use smart technologies to extend CPR and public access defibrillation programs to notify volunteer bystanders who can respond to nearby arrest to provide early CPR and defibrillation
8. Make CPR and AED training mandatory in schools and the community
9. Work toward accountability – submit annual reports to the community
10. Work toward a culture of excellence
Actions for Successful Implementation of Resuscitation Programs

1. Select program or programs to implement
2. Form a team or advisory board
3. Determine how to make it happen in your community
4. Set specific goals
5. Achieve buy-in from agency personnel
6. Establish performance standards
7. Consider a pilot program
8. Communicate progress within the agency
9. Communicate with the public and EMS personnel
10. Support, Advocate, Celebrate
## Appendix A- Resuscitation Academy’s 10-Step Recommendations in PAROS Participating Countries

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<thead>
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<th>Step</th>
<th>Singapore</th>
<th>Korea</th>
<th>Japan</th>
<th>Taiwan</th>
<th>Thailand</th>
<th>Malaysia*</th>
<th>India</th>
<th>China</th>
<th>Indonesia</th>
<th>Philippines</th>
<th>Vietnam</th>
<th>Pakistan</th>
<th>Abu Dhabi</th>
<th>Qatar</th>
<th>UAE-Dubai</th>
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<tbody>
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<td>Establish a cardiac arrest registry</td>
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<td>Telephone CPR with ongoing training and QI (dispatcher workshop, refresher course, review of calls)</td>
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<td>Rapid dispatch (dispatch within 1 min upon receipt of call for critical events)</td>
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<tr>
<td>Begin high-performance EMS CPR (correct speed, depth, hand position, minimal interruptions) with ongoing training and QI (download CPR data from defibrillator for review)</td>
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<td>Measure professional resuscitation using the defibrillator recording (download of CPR data from defibrillator including voice recording to evaluate resuscitation processes)</td>
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<td>AED program for first responders such as police officers, security personnel, etc.</td>
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<tr>
<td>Use smart technologies (e.g. smartphone app, text messages) to notify volunteer bystanders of nearby arrests for rapid CPR and defibrillation</td>
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| Make CPR and AED training mandatory in schools and the community |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Singapore | Korea | Japan | Taiwan | Thailand | Malaysia | India | China | Indonesia | Philippines | Vietnam | Pakistan | Abu Dhabi | Qatar | UAE-Dubai |

| Work toward accountability – submit annual reports to the community |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Singapore | Korea | Japan | Taiwan | Thailand | Malaysia | India | China | Indonesia | Philippines | Vietnam | Pakistan | Abu Dhabi | Qatar | UAE-Dubai |

| Work toward culture of excellence (establishment of protocols for EMTs, dispatchers, etc., medical supervision, evidence-based practice, on-going education and training, on-going quality improvement, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Singapore | Korea | Japan | Taiwan | Thailand | Malaysia | India | China | Indonesia | Philippines | Vietnam | Pakistan | Abu Dhabi | Qatar | UAE-Dubai |

*The implementation plans are different for each PAROS participating site in Malaysia*

- **Green**: Already implemented
- **Yellow**: Plans to implement
- **Red**: Currently not able to implement
Summary

Programs

• Cardiac arrest registry
• Telephone CPR
• High performance CPR
• Rapid dispatch
• Measurement of professional resuscitation
• AED program for first responders
• Smart technologies for CPR and AED
• Mandatory training for CPR and AED
• Accountability
• Culture of excellence

Actions

• Form a team
• Select programs
• Plan implementation strategy
• Set specific goals
• Achieve buy-in
• Establish standards
• Pilot the program
• Consult experts
• Communicate progress
• Support, advocate, celebrate

Improved Survival