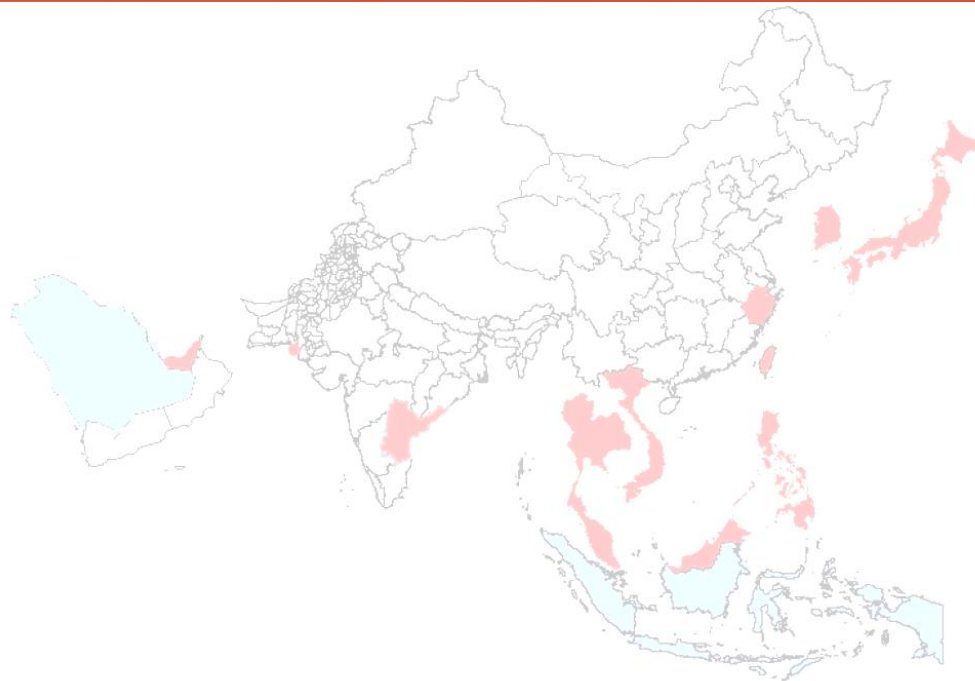




RESEARCH OPPORTUNITIES WITH REGISTRIES

PAROS



Potential studies for collaboration

| Study Title | Study Synopsis | Lead investigator |
|---|---|----------------------------|
| Advanced airway management on survival after OHCA | The effects of prehospital advanced airway on outcomes of OHCA patients are controversial. This study aims to evaluate the interaction effects of advanced airway management on survival after OHCA | Dr Ki Ok Ahn (Korea) |
| Non-Cardiac etiology OHCA | To describe the epidemiology and determine the predictors for survival outcomes according to cause (trauma vs asphyxia) of non-cardiac etiology OHCA | Open |
| Adherence of Therapeutic Hypothermia in Emergency Medicine Practice | To investigate the adherence of therapeutic hypothermia in emergency medicine practice among countries and the contributing factors for the differences between systems. | Open |
| In OHCAs, does shortening the response time affect survival? | Comparison of EMS response time with OHCA survival across regions to determine a threshold for “the best response time”. | Dr Chiang Wen-Chu (Taiwan) |

Potential studies for collaboration

| Study Title | Study Synopsis | Lead investigator |
|--|--|----------------------------|
| Place-Provider Matrix and Time Interval to Initiation of CPR and Defibrillation After OHCA | To compare the time interval of first CPR and defibrillation after OHCA by place-provider matrix and to determine the effect of the matrix on survival outcomes. | Prof Sang Do Shin (Korea) |
| Predictive performance of Termination-Of-Resuscitation (TOR) rules | Comparison predictive performance of TOR rules between Asian and Western populations | Dr Huang Yu-Sheng (Taiwan) |
| Relationship between OHCA burden and cardiac arrest outcomes | To determine association between OHCA burden per ambulance and EMS characteristics on EMS performance and OHCA outcomes | Dr Kuo Chan-Wei (Taiwan) |
| Outcome Prediction for OHCA Patients Using Statistical Computation Approaches | To develop and validate a statistical scoring method to predict OHCA outcomes and to compare the method across different populations | Dr Liu Nan (Singapore) |

Potential studies for collaboration

| Study Title | Study Synopsis | Lead investigator |
|---|---|-------------------------|
| Factors Influencing Bystander Cardiopulmonary Resuscitation and the Related Outcomes across countries | To investigate factors (e.g. patient and event characteristics) related to the administration of bystander CPR before arrival of EMS across countries, examining the effect of bystander CPR on survival by adjusting for selection bias, and constructing a classification tree model related to bystander CPR and their effect on survival between groups | Dr Jonathan Lu (Taiwan) |
| Location Characteristics and the Outcome Impact on OHCA | Compare location characteristics, epidemiology and their impact on survival for OHCA patients across countries | Dr Patrick Ko (Taiwan) |

Potential studies for collaboration

| Study Title | Study Synopsis | Lead investigator |
|---|--|---------------------------|
| Barriers to dispatcher-assisted cardiopulmonary resuscitation (DA-CPR) across OHCA registries | Assess impact of DA-CPR on bystander CPR and OHCA survival rates across OHCA registries and determine common barriers (system-/cultural) to DA-CPR | Dr Marcus Ong (Singapore) |
| Resuscitation Academy (RA) 10-Step Implementations among countries in the OHCA registries | Survey on extent of implementation of RA 10-steps for OHCA survival improvement across OHCA registries and correlating them to survival outcomes | Dr Marcus Ong (Singapore) |
| Arrest to first compression time and survival outcome in witness OHCA. | To investigate arrest to first compression time on survival outcomes in OHCA victims who receive bystander CPR | Dr Yu Jin Lee (Korea) |

Potential studies for collaboration

| Study Title | Study Synopsis | Lead investigator |
|--|---|---------------------------|
| The Outcomes of Traumatic or Injured OHCA and Ventricular Fibrillation | To investigate impact of defibrillation on survival outcomes in patients with traumatic arrests presenting with VF | Dr Yen-Pin Chen (Taiwan) |
| Comparison of dispatcher-assisted cardiopulmonary resuscitation (DA-CPR) practices among OHCA registries | Survey of DA-CPR practices/interventions among OHCA registries – each emergency dispatch centre may have systemic and structural interventions which influence effective implementation of DA-CPR | Dr Ng Yih Yng (Singapore) |
| Percutaneous coronary intervention provision and outcomes among cardiogenic OHCA | To investigate PCI rates among OHCA registries and their impact on OHCA survival for adult patients with ROSC after cardiogenic OHCA | Dr Takashi Tagami (Japan) |
| Environmental exposure as a risk factor for OHCA | To determine the association between ambient air pollution and OHCA incidence across countries/regions in the OHCA registries | Dr Andrew Ho (Singapore) |

Potential studies for collaboration

| Study Title | Study Synopsis | Lead investigator |
|---|---|-------------------------------------|
| CPRCard study | Comparison of chest compression rate and depth in CPR performed with Laerdal CPRcards (real-time CPR quality feedback device) vs those without | A/Prof Marcus Ong/ Mr Alex White |
| Advanced airway RCT | Multi-national RCT comparing prehospital basic airway management vs. advanced airway management in OHCA patients | Prof Sang Do Shin |
| PAROS 3 – Manual Defib, HP CPR, ITD, Amiodarone | Stepped-wedge implementation of manual defibrillation, high-performance CPR, ITD, and amiodarone for comparison of ROSC and survival rates with concurrent controls | A/Prof Marcus Ong |
| MyResponder/ other lay responders dispatch smartphone app | investigate the impact of the app in increasing bystander CPR/AED rate, ROSC, VF, and survival rates | A/Prof Marcus Ong/ Dr Ng Yih Yng |