



Improving Outcomes from Pre-hospital and Emergency Care across the Asia-Pacific

STUDY PROPOSAL REQUEST FORM

Please complete the form and email to PAROS secretariat at patricia.tay@scri.cris.sg by the stipulated date. You will be notified in due time on whether your study has been accepted for presentation.

Reminder: Please check the list of existing proposals and publications from

<https://www.scri.edu.sg/crn/pan-asian-resuscitation-outcomes-study-paros-clinical-research-network-crn/paros-publications/> to avoid duplications of proposals. Abstract and manuscript must be sent to PAROS chairs for approval before submission for presentation/publication.

1. BASIC INFORMATION

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Country: Japan

2. TYPE OF REQUEST (Please select one)

New Study Proposal (initial)

Secondary Analyses

Explanatory Analyses

3. STUDY TITLE

Association between advanced airway management and outcome after out-of-hospital cardiac arrest - propensity score analysis

4. ABSTRACT OF STUDY PROPOSAL

In **no more than 350 words**, describe the study under the given headings below.

Objectives/Hypotheses

The effects of advanced airway management (AAM) on outcomes after out-of-hospital cardiac arrest (OHCA) patients are controversial. We should to evaluate effect of AAM on OHCA with accounting regional differences because effect of AAM was different by regions. This study will aim to evaluate the association between AAM and outcome after OHCA.

Methodology (To include sample size, settings, inclusion & exclusion criteria, etc. For secondary & explanatory analyses: include statistical plan, type of analyses, measurement, etc.)

This study will be conducted as multicenter cohort study using PAROS network registry. Patients with EMS-treated OHCA aged 18 years or older will be analyzed, excluding missing data. Main exposure variable will be AAM in the prehospital setting including endotracheal intubation (ETI) and supraglottic airway (SGA). Patients will be divided into the Shockable and Non-shockable cohorts because the treatment would be differed depending on the initial rhythm.

We will be stratified by country and calculated propensity scores with the logistic model accounting domestic regional differences in each country. We will calculate the effect size for comparing the outcomes of the AAM and the No AAM cohort using the marginal structural model. Finally, the calculated effect size will be weighed and pooled by the random effect model.

Primary outcome will be survival to discharge. Secondary outcome will be return of spontaneous circulation at emergency department and favorable neurological outcome. In addition, as a secondary analysis, a similar propensity score analysis will be performed in the SGA and ETI cohorts to evaluated the association between AAM devices and outcomes after OHCA.

Secretariat

Singapore Clinical Research Institute Pte Ltd (Reg No: 200812355Z)

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Significance of the study (e.g. provide brief description on how the study can improve current
This study will be a large-scale observational study evaluated effect of AAM in Pan-Asian countries using PAROS network registry. This study that accounted regional differences may indicate results that can help with the establishing AAM strategy for OHCA.

For Official Use (Assessor only)

(A) Score (please highlight the appropriate score):

1	2	3	4	5	6	7	8	9	10
<i>Unfavourable</i>					<i>Favourable</i>				

(B) Comments (free text):

GUIDELINES FOR PREPARING NEW PROPOSAL PRESENTATION

If your study proposal has been accepted for presentation, you will be notified by the Secretariat. Please prepare your presentation slides in accordance to the following instructions. Each presenter is given 10 minutes to present (8min presentation + 2min Q&A).

General Instructions

1. Presentation must include the following sections:
 - a. Introduction
 - b. Objectives/Hypotheses
 - c. Methodology
 - d. Significance

2. Limit total number of slides to not more than 12. The following are the recommended number of slides for each section.
 - a. Introduction – maximum of 2 slides
 - b. Objectives/Hypotheses – maximum of 2 slides
 - c. Methodology – maximum of 6 slides
 - d. Significance – maximum of 2 slides

3. Try to use big fonts and contrasting colours to increase readability e.g.
 - a. Black/dark blue font against white background

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- b. White/yellow font against black background
- c. Black font against blue background

For any enquiries, please contact PAROS secretariat at paros.secretariat@yahoo.com

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