

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.edu.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.sq/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										
Name: Liu Nan	Designation: Assistant Professor									
Email: nanliu.ac@outlook.com	Country: Singapore									
2. TYPE OF REQUEST (Please select	t one)									
New Study Proposal (initial)	dy Proposal (initial)		Explanatory Analyses							
3. STUDY TITLE										
Development and Validation of a Predictive Model for Early Neuro-Prognostication after OHCA										
4. ABSTRACT OF STUDY PROPOSAL In no more than 350 words, describe to		on hoodings he	alow							
·	me study under the giv	en neadings be	eiow.							
Objectives/Hypotheses										
According to recent data released by PAROS, the overall survival rate to hospital discharge after OHCA in Asian patients was 5.4%, and the survival rate with good neurological function was 2.7%. In this study, we aim to develop and validate a predictive model to stratify survived OHCA patients in terms of their favorable neurological status.										
Methodology (To include sample size, settings, inclusion & exclusion criteria, etc. For secondary & explanatory analyses: include statistical plan, type of analyses, measurement, etc.)										
We will conduct a secondary analysis using the PAROS 1 dataset. We will include non-traumatic OHCA patients who had sustained ROSC after resuscitation. The primary outcome is favorable neurological status, defined as Cerebral Performance Category (CPC) 1 or 2, at hospital discharge or at 30 th day post-arrest. We will utilize routinely collected variables in PAROS registry to derive the predictive model, where both traditional logistic regression and advanced machine learning algorithms will be implemented.										
Significance of the study (e.g. provi	ide brief description (on how the st	udy can improve current							
The main purpose of neuro-prog	mostication is to a	ssist clinician	s in deciding whether further							



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aggressive life-sustaining therapy should be added. Over the years, several neuro-prognostication scores have been developed, such as the out-of-hospital cardiac arrest (OHCA) and cardiac arrest hospital prognosis (CAHP) scores. Both scores allow early risk-stratification using variables that are immediately available upon admission to the ICU. However, their calculations require the serum creatinine level and the arterial lactate level, which are not readily recorded in the PAROS dataset. To create a general model that can be adopted in multi-region setting, we will need to re-develop a predictive model using commonly available variables. We believe such a model will become an efficient tool in assisting accurate clinical decision making in Pan-Asian region.

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(A) Score (please highlight the appropriate score):												
1	2	3	4	5	6	7	8	9	10			
Unfavourable												
(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