



## STUDY PROPOSAL REQUEST FORM

Please complete the form and email to PAROS secretariat at [paros.secretariat@yahoo.com](mailto:paros.secretariat@yahoo.com) by the stipulated date. You will be notified in due time on whether your study has been accepted for presentation.

### 1. BASIC INFORMATION

<b>Name:</b> Kuo Chan-Wei	<b>Designation:</b>
<b>Email:</b> erawei@gmail.com	<b>Country:</b> Taiwan

### 2. TYPE OF REQUEST (Please select one)

<input checked="" type="checkbox"/> New Study Proposal (initial)	<input type="checkbox"/> Secondary Analyses	<input type="checkbox"/> Explanatory Analyses
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### 3. STUDY TITLE

Among different EMS systems in PAROS study cities divided by population density and economy what is the association between OHCA burden per ambulance and EMS characteristics on EMS performance & patient survival?

### 4. ABSTRACT OF STUDY PROPOSAL

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

Objectives/Hypotheses

1a To classify locales of EMS system according to a standard:

- Population density by Japanese Criteria: > 3000/km<sup>2</sup> :Higher
- Economy by World Bank Criteria: GNI per capita > \$12,746 : high income

1b To measure the annual OHCA burden per ambulance within similar locales and among different locales

2a To measure the association of EMS system-specific features and EMS performance within similar locales

2b To compare this association among different locales

3. To identify modifiable factors to improve EMS performance

Methodology

For research aim 1:

- ▶ Classify the locales of each sites according to population density and economy
- ▶ Collect the OHCA burden per ambulance for each cities
- ▶ Compare & summarize the OHCA burden across cities within the same locale
- ▶ Compare OHCA burden among locales

For research aim 2:

- ▶ The unit of observation is the PAROS study sites
- ▶ Perform separate multiple linear & logistic regression for locales of similar pop density and economy
- ▶ Examine the adjusted effect of modifiable EMS characteristics
- ▶ Explore any differences in relationship between locales of different density or in different countries

Outcomes to measure :

- ▶ Mean annual Total EMS time-from call received to arrival at ED
- ▶ % ROSC on arrival at ED
- ▶ % Survival to admission of the patient
- ▶ % Survival to hospital discharge or > 30 days

Secretariat

Singapore General Hospital

Outram Road, Singapore 169608 | Tel: (65) 6321 3590 | Fax: (65) 6226 0294 | Email address: [paros.secretariat@yahoo.com](mailto:paros.secretariat@yahoo.com) |

Website: <http://www.scri.edu.sg/index.php/paros-clinical-research-network>



Significance of the study

Population density has been used to classify locales as urban, suburban & rural and GNI per capita has been used to classify economies. EMS performance and OHCA survival may depend on locale as well as EMS system specific factors.

The average annual performance of the EMS system may depend on:

- the type of locale (population density, economy) they are based in
- average burden of OHCA per ambulance
- other factors

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