



Regional Variation in Outcomes of Witnessed VF OHCA in Asia

Tatsuya Nishiuchi
Department of Critical Care & Emergency Medicine
Osaka City University Graduate School of Medicine, Osaka,
JAPAN



Introduction

- ▶ **Outcome of patients with witnessed VF OHCA**
 - Depends on “the chain of survival”
 - Reflects emergency care in communities
- ▶ **Regional variation in outcome of witnessed VF in US**
 - Survival to discharge
 - 8% in Alabama to 40 % in Seattle: Nichol, JAMA 2008
- ▶ **Regional variation in outcome of witnessed VF in Asia**
 - Incidence, characteristics and outcomes of witnessed VF OHCA in Asia have not been fully investigated.

Aims



▶ **Regional variation in Asia**

- To explore whether there is regional variation in the incidence, characteristics and outcomes of witnessed VF OHCA in Asian countries

▶ **Comparison of PAROS data with data from US CARES study**

- To clarify both the similarities and difference in witnessed VF OHCA between US and Asian countries



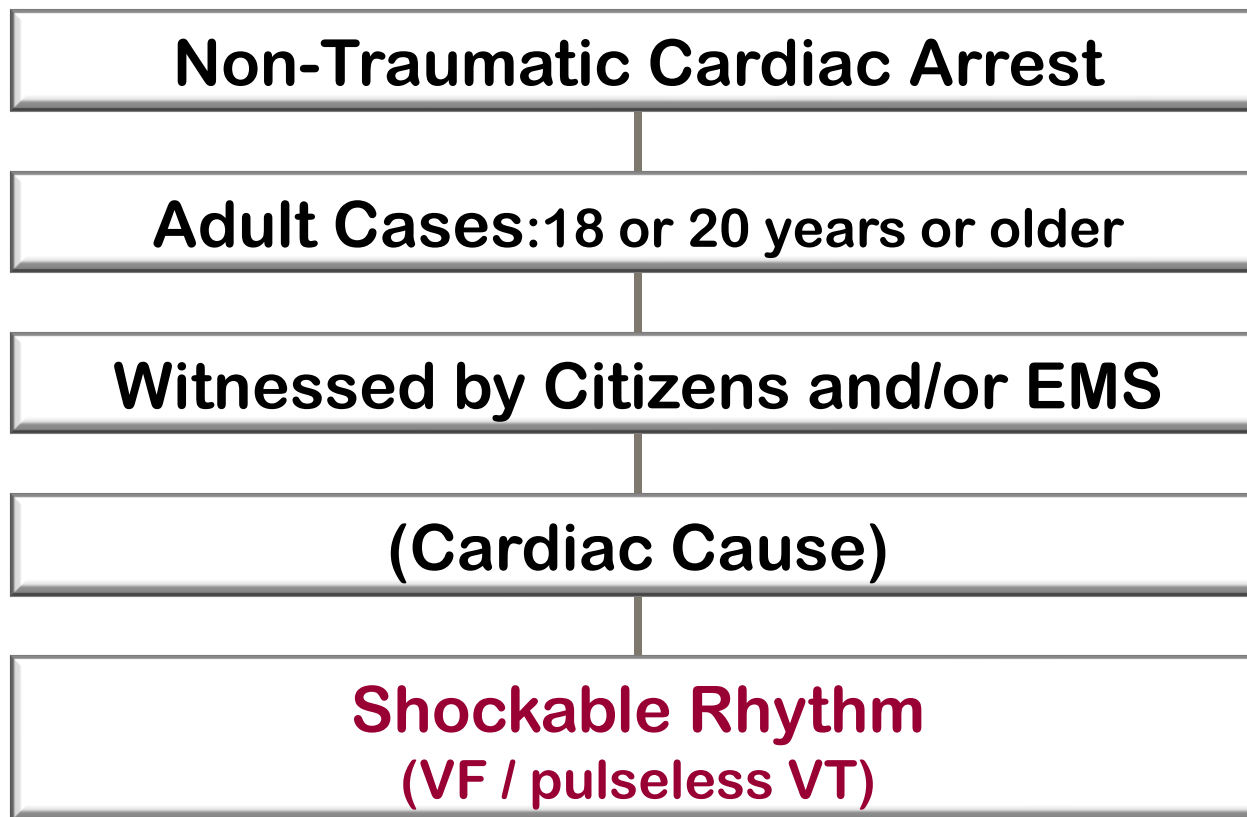
Hypotheses

- ▶ **Regional variation in Asia**
 - There would be regional variation in the incidence and outcome of witnessed VF OHCA among areas in Asia
- ▶ **Comparison of PAROS data with data from US CARES study**
 - There would be difference in the incidence, patient characteristics, in and out-of-hospital emergency care, and outcomes of witnessed VF OHCA between US and Asia

Methods



▶ Subjects



Methods



▶ Analysis

- Description and comparison of information on:
 - Characteristics of witnessed VF OHCA patients
 - Out-of-hospital CPR by EMS
 - In-hospital treatment
- Calculation and comparison of:
 - Incidence
 - Outcome: survival and neurological outcome

Methods



▶ **Analysis**

- **Comparison of PAROS data and data from the USA CARES study on:**
 - **Characteristics of witnessed VF OHCA patients**
 - **Out-of-hospital CPR by EMS**
 - **In-hospital treatment**
 - **Incidence**
 - **Outcome: survival and neurological outcome**



Significance

- ▶ Knowing the current status of incidence and outcomes of witnessed VF OHCA is the first step to the improvement of emergency care in communities.
 - **“A bridge cannot be built without knowing the width of a river.”**
- ▶ Comparison of data from different EMS systems may lead us to identify factors that can influence outcomes.