Classify Urban/Suburban/Rural Sites for OHCA Research across PAROS Countries

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Outline of Proposal

- Introduction

- Aims/Hypotheses

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- Significance

Introduction(1)

- The character of OHCA patients and the outcome of resuscitation are different across urban, suburban, and rural location.
- However, the definition of urban, suburban, and rural has not been established in OHCA research taxonomy.
- Different countries have different definitions

Introduction(2)

- Most of the definitions are related to population density, but not directly linked to OHCA research purpose.

- For example, an EMS station may be located in a town center of a middle-sized county and can be classified as either suburban or rural one according to different definitions.

Aims/ Hypotheses

- Classify Urban/Suburban/Rural Sites for OHCA Research across PAROS Countries

- In our previous study in Taoyuan County, OHCA volume of each fire/EMS station was highly related to the population density.

Hypotheses

- The more OHCA cases managed in a given period of time, the larger population the station served.

- We could draw a clearly-cutting line between urban/suburban and suburban/rural sites on the graph of EMS stations ranking in order of OHCA volume.

- We hypotheses that our experience is also applicable in other study sites of PAROS.

八里鄉 Bali
Shihlin
北投區
士林區
Cidu
林口鄉 Linkou
Wugu 蘆洲市
五股鄉 Lujhou
內湖區
Neihu
蘆竹鄉 Luhu
泰山鄉
Taishan
Jhongshan 中山區
Datong 大同區 松山區
大園鄉
Dayuan 大園鄉
Gueishan
龜山鄉
Sinjhuang 新莊市
Jhongheng
大安區
Songshan
Siihih
Guanyin 觀音鄉
Taoyuan
桃園市
Taipei 台北
Da-an
信義區
深坑鄉
新屋鄉 Sinwu
中壢市
Jhongli
八德市
Bade
Shulin
Yingge 鶯歌鎮
TuchengJhonghe
文山區
Wunshan
Sinfong 新豐鄉
平鎮市 Yangmei 楊梅鎮
Pingjhen
桃園
土城市
新店市 Sindian
Shihding 石碇鄉
湖口鄉
Hukou
Sinpu 新埔鎮
Dasi 大溪鎮
三峽鎮
Sansia
三峽鎮
Jhubei 竹北市
新埔鎮
龍潭鄉 Longtan
North 北區
Guansi 關西鎮
復興鄉
烏來鄉
Yuanshan
香山區
新竹市
東區 East
竹東鎮 Jhudong
Cyonglin
莒林鄉
Baoshan 寶山鄉
Siangshan
Jhunan
竹南鎮
Hengshan 橫山鄉
新竹
復興鄉
Sansing 三星
Toufen 頭份鎮
P
造橋鄉
Zaociao
Miaoli
頭屋鄉
五峰鄉
南庄鄉
宜蘭
Touwu
24°51'04.71"北 121°18'03.86"東 海拔高度 273 公尺
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台北縣

新竹縣

宜蘭縣

0-1000
1000-2000
2000-3000
3000-6000
6000-10000
10000-30000
30000-70000

N

1 10 50 100 公頃

5   0   5   10 Kilometers

Case number in 9 months

Rural

Suburban

Urban

130
120
110
100
90
80
70
60
50
40
30
20
10
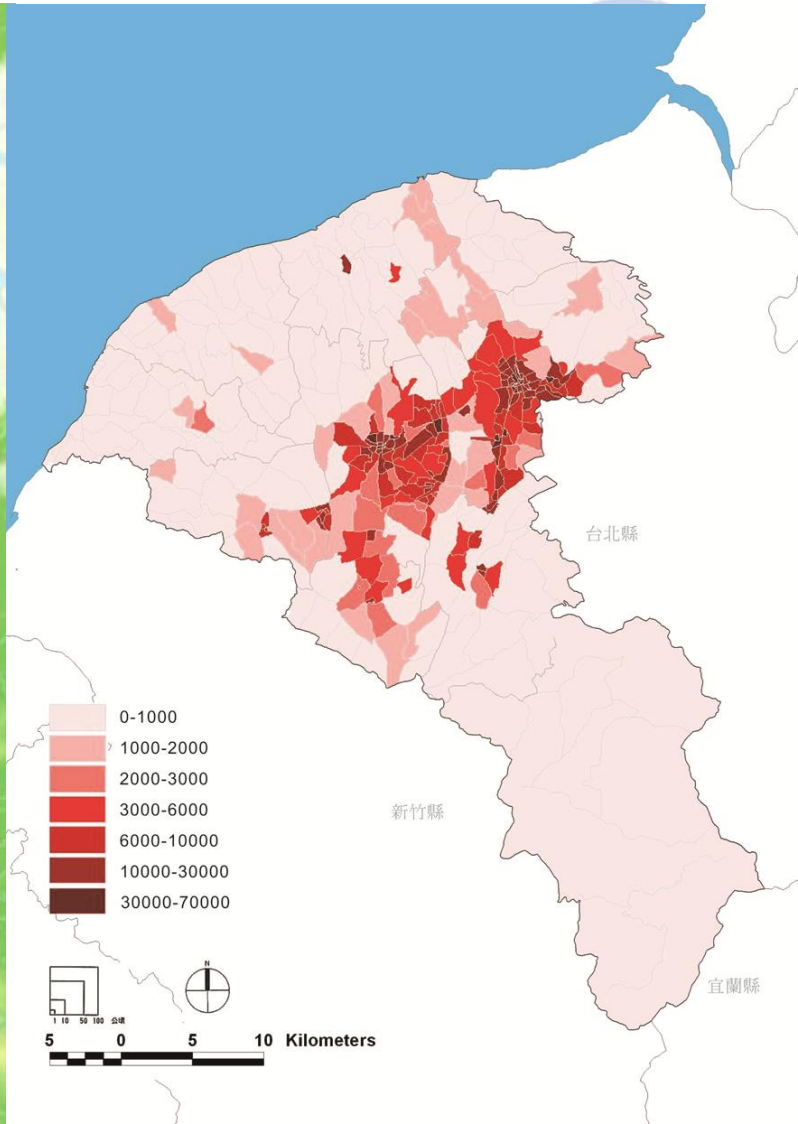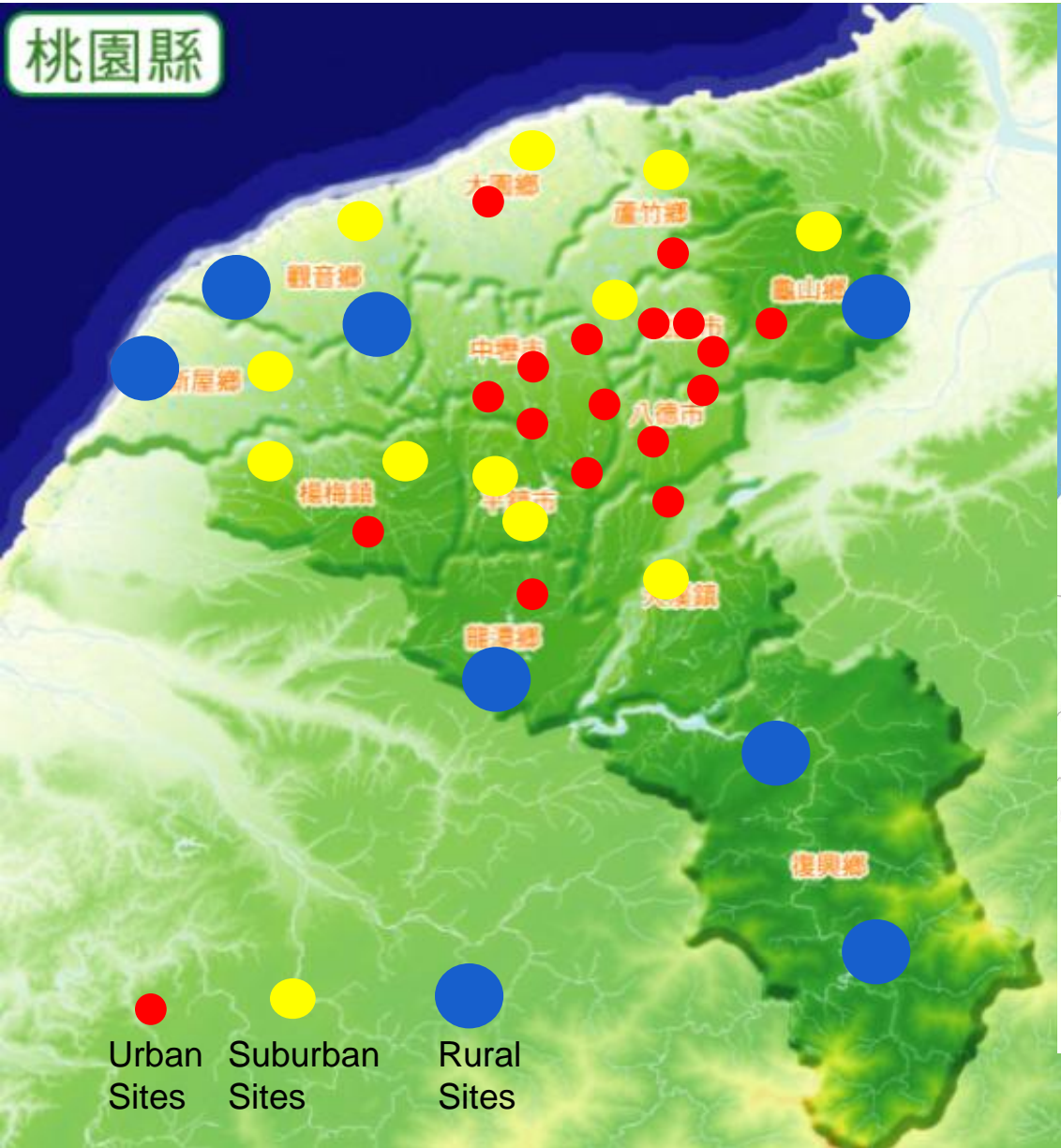0
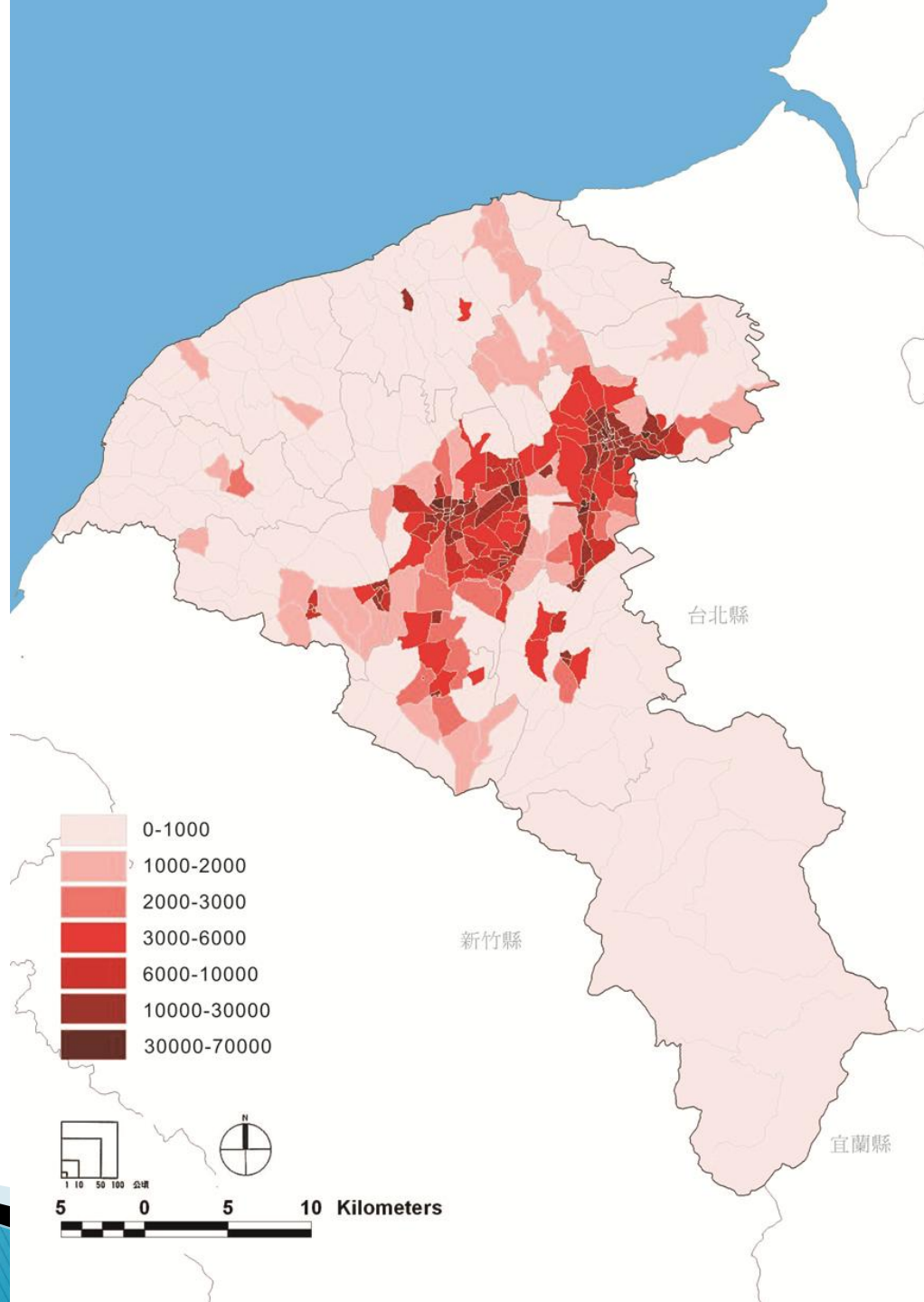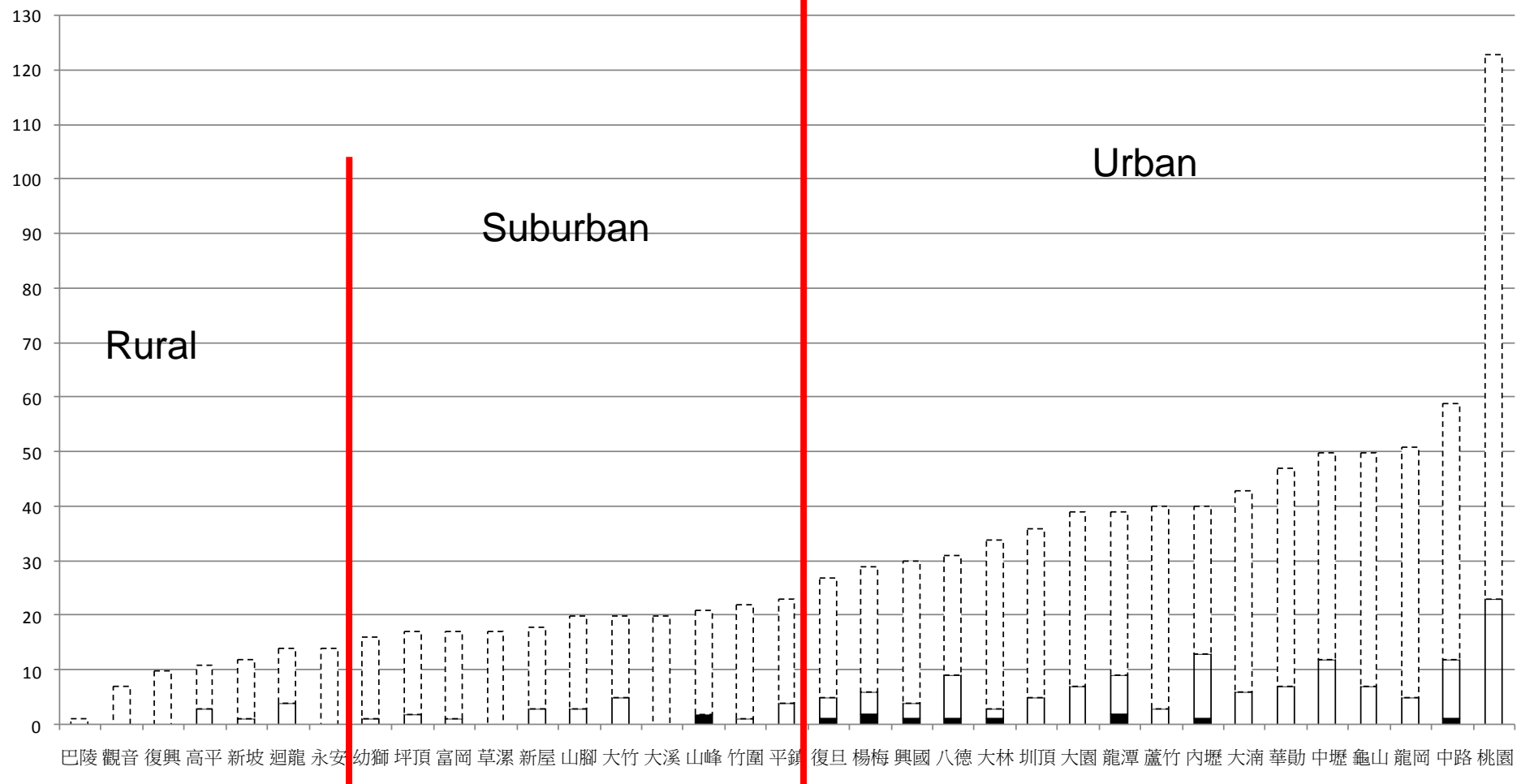
巴陵 觀音 復興 高平 新坡 迴龍 永安 幼獅 坪頂 富岡 草漯 新屋 山腳 大竹 大溪 山峰 竹圍 平鎮 復旦 楊梅 興國 八德 大林 圳頂 大園 龍潭 蘆竹 內壢 大湳 華勛 中壢 龜山 龍岡 中路 桃園

Branch stations

桃園縣

Urban
Sites

Suburban
Sites

Rural
Sites

0-1000
1000-2000
2000-3000
3000-6000
6000-10000
10000-30000
30000-70000

10 Kilometers

台北縣

新竹縣

宜蘭縣

Methods(1)

- ▶ Include all study sites of PAROS.
- ▶ Create graphs of EMS stations ranking in order of OHCA volume in each study site.
- ▶ The principle investigators of each site have to fill the questionnaire listed below,

Methods(2)

- 1. In your study city/county, which of the following is more accurate to describe different EMS stations?

    a. All urban

    b. Urban/suburban

    c. Urban/suburban/rural

    d. Others_____

- 2. Do you already have good state or national definition for above classification for OHCA research in your study city/county?

    a. Yes, and it is _____

    b. No

Methods(3)

- 2. Can you draw a clearly-cutting line on the graph of EMS stations ranking in order of OHCA volume to distinguish different types of stations?

    a. Yes

    b. No, the reason is _____

- 3. If the answer of question 2 is yes,

    How will you draw the line? Please use OHCA volume per month as measure unit.

- 4. Do you find any station which is grouped into urban/suburban/rural is exception or in doubt? And why?

Significance

▸ After the definition being confirmed, we can proceed with secondary analysis that how urban, suburban, and rural locations affect the outcome of OHCA resuscitation across different Countries, and find out the better strategy of each location to improve the performance.