PAROS STUDY IN MALANG, INDONESIA
## Patient Characteristics

**Sept 2014 - Feb 2015: 9 OHCA In Lawang Hospital**

<table>
<thead>
<tr>
<th>Variable</th>
<th>n</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Age</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt; 50 Years</td>
<td>2</td>
<td>22.2%</td>
</tr>
<tr>
<td>&gt; 50 Years</td>
<td>7</td>
<td>77.8%</td>
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<tr>
<td><strong>Gender</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>4</td>
<td>44.4%</td>
</tr>
<tr>
<td>Female</td>
<td>5</td>
<td>55.5%</td>
</tr>
<tr>
<td><strong>Medical History</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Single (Diabetes)</td>
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<td></td>
</tr>
<tr>
<td>• Multiple (Diabetes,</td>
<td></td>
<td></td>
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<tr>
<td>Hypertension, Heart disease)</td>
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<tr>
<td></td>
<td></td>
<td>22.2%</td>
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<td>77.7%</td>
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</tbody>
</table>
PROGRESS OF PAROS STUDY

Bystander CPR

- CPR: 89%
- NO CPR BYSTANDER: 11%
Resuscitation Information

- Lack of public access to AED
- Delay of EMS ambulance response
- Long distance to the referral hospital
CARDIAC ARREST RYTHM

- VF: 56%
- ASYSTOLE: 33%
- Unknown: 11%
ED defibrillation performed

Defibrillation: 89%
No Defibrillation: 11%

Outcome of patient: 9 OHCA death
PROBLEM

THERE WAS NO DATABASE RELATED OUT OF HOSPITAL CARDIAC ARREST (OHCA) CASE

OPPORTUNITY

ESTABLISHMENT OF PAROS TEAM IN MALANG - INDONESIA

RESULT

PAROS STUDY IN MALANG
5 YEARS
9 HOSPITALS
11 PRIMARY HEALTH SERVICES

APPROACH

STUDENT BASED PAROS STUDY

IMPLEMENTATION

PRE HOSPITAL
HOSPITAL
Networking in 9 hospitals and 11 Primary Health Care in Malang
STRATEGY

TEACHING HOW TO DO CPR AND TO USE AED

- Encourage awareness about cardiac arrest and CPR via “CPR Game“
- Early CPR recognition to elementary school students
STRATEGY

- Involving student paros study
- Socializing the importance of EMS to Health Care Provider in Malang through EMS Seminar
THANK YOU FOR YOUR ATTENTION