A new institutional based rehabilitation model after the Sichuan earthquake in China

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Caring For Children Foundation, Hongkong, China
Baseline: on site investigation in M, S and J county in 2008
- 21 townships, 500,000 residents
- 11,000 people died
- Mountainous area

Follow-up: Re-evaluation in M, S and A county in 2010
- IBR, CBR, surgery and training programs
NHV Model
Cooperation in NGOs, Health departments and rehabilitation Volunteers

Earthquake Survivors

Disabled Person’s Federation

Handicap International

Health Bureau

Local Hospital

IBR

NGO(CFCF)

CBR

PT/Nurse

Rehab equipment

Rehab

Preequipment
NHV Model

Local hospital
NHV Model

Local hospital
Health Bureau
NHV Model

Local hospital
Health Bureau
Handicap International
Local hospital
Health Bureau
Handicap International
Disabled Person’s Federation

NHV Model
NHV Model

Demography data

Injury classification

Rehab needs

Physical function

2008 Baseline

Mental health

Social integration

2010 Follow-up

M county
NHV Model

- **M county** VS **A county**
- **2008 Baseline** VS **2010 Follow-up**
- **VS S county**
Medical outcome in M county—ADL

- Independent
- Dependent

Baseline vs Follow-up

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%
Medical outcome in M county—ADL

![Bar chart showing medical outcome in M county for ADL with independent and dependent categories at baseline and follow-up.](chart.jpg)
# Functional recovery in SCIs

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>Outcome</th>
<th>Baseline</th>
<th>Follow-up</th>
<th>Paired t test</th>
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</tr>
</thead>
<tbody>
<tr>
<td>SCI</td>
<td>ADL</td>
<td>71.2 ± 25.8</td>
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<td>-3.37</td>
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<tr>
<td></td>
<td>WSCI II</td>
<td>5.8 ± 7.0</td>
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Comparison between M-S county and M-A county

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<th>S county</th>
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<tbody>
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<td>34.2 ± 10.6</td>
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# Economic outcome-average cost

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Total: 1696
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# Economic outcome

Total: ¥5.3 million

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Administrative</td>
<td>5%</td>
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<tr>
<td>Volunteer team</td>
<td>21%</td>
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<tr>
<td>Program operation</td>
<td>4.8%</td>
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<tr>
<td>Equipments</td>
<td>13.5%</td>
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<tr>
<td>Rehabilitation</td>
<td>16.1%</td>
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<tr>
<td>Home adaptation</td>
<td>1%</td>
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<td>Surgery</td>
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Average cost: 4,350 yuan
# Research outcome

| 1. 张霞, 卞荣, 励建安等; 四川江油地震伤员康复状况分析; 中国康复医学杂志; 2009, 24(1): 5-8. |
| 2. 肖明月, 刘守国, 励建安, 张霞等; 绵竹地震胫腓骨骨折伤员功能恢复的影响因素分析; 中国康复医学杂志; 2011年1月发表 |
| 3. 肖明月, 刘守国, 励建安, 张霞等; 绵竹地震胫腓骨骨折伤员功能恢复的影响因素分析; 中国康复医学杂志; 2011年1月发表 |
| 4. Yongqiang Li, Yin Liu, Sijing Chen, Xia Zhang, Jianan Li; Outcome of medical rehabilitation for 51 Sichuan earthquake victims with SCI; Spinal; |
5 Physiatrists
6 Physical Therapists
6 Rehabilitation Nurses
50 Patient Wards
回访调查

- 2010年8月，耗时12天
- 40名专业人员，分6组，每组由1名资深康复医师/治疗师领队，一名康复研究生及3-4名医学本科生组成
- 浦江地区21个乡镇
- 残员总数456名

目的
- 了解两年来的工效
- 掌握地震伤员后期需求
- 为政府、医疗系统和其他公益组织的后续项目提供参考
Long term mechanism—cooperation in the future 3 years

- No-fee rehabilitation treatments for earthquake survivors and low-income patients
- Capacity building of MZ hospital
- CBR programs for MZ earthquake survivors
Based on the earthquake survivors government and non-government IBR and CBR