Stung Treng
2nd – 3rd May 2013

PTC Report
Purpose of the visit: to conduct a 2 day PTC course

In Stung Treng

Which is a remote province in Cambodia.

Despite being only 400km away from Phnom Penh, the capital of Cambodia, it takes nearly 8 hours to travel this distance by road.
Executive Summary

• A two day PTC course was conducted in Stung Treng
• PTC Instructors came from Angkor Hospital for Children, Siem Reap
• The Course Director was from Australia
• Potential instructors were identified and plans were made for the next PTC course to be held in Kratie
Key Staff involved with planning and coordination

- **Ms Manila Prak**, Nurse, AHC
- **Ms Naro Kong**, Nurse, AHC
- **Mr Visal Rakanak**, Nurse, AHC
- **Mrs Rany**, physiotherapist, Stung Treng
- **Dr Suzi Nou**, Anaesthetist, Australia

F-B: Mr Visal Ratanak, Dr Suzi Nou, Ms Naro Kong, Ms Chhomrath (Head Nurse, ICU) at AHC preparing for the course.
Professional Aspects of the Visit

• The faculty were able to tour the Emergency Department and the ICU
• The ICU has recently been supplied with equipment, such as new ventilators
• The ICU staff have requested training to use the new equipment

Stung Treng Emergency Department
Stung Treng ICU

4 beds (3 occupied)

New ventilator next to the empty bed
There were a total of 22 participants
The participants consisted of:

By PROFESSION:

- Of the 5 doctors (MD):
  - 1 Chief of ICU
  - 2 junior Emergency Doctors
  - 1 junior Obstetric Doctor
  - 1 Psychiatrist
The participants came from:

- Of the 22 participants, 8 came from rural health centres:
  - Siem Pang (100 km)
  - Kamphun (50 km)
  - Kbal Romes (30 km)
  - Srey Krosang (20 km)
5 local PTC Instructors + one Australian Course Director

From L-R: Dr Kheng Chheng, Head PICU, AHC,
Mr Visal Rakanak, ICU Nurse, AHC,
Dr Yos Pagnarith, Head, PICU, AHC,
Mr Chhoeng, ICU Nurse, AHC,
Dr Suzi Nou (Course Director),
Ms Naro Kong, ICU Nurse, AHC
Details of activities: the course was taught using a variety of methods

Lectures: delivered in Khmer, with Khmer slides

Discussion groups
Practical Teaching: skills

Making cervical collars from cardboard

Airway management
Scenario based teaching

Scenarios were demonstrated by the instructors

And practiced using each other or manikins donated to AHC by APLS Australia
## Contents of the PTC course: day 1

<table>
<thead>
<tr>
<th>TIME</th>
<th>Duration</th>
<th>TOPIC</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.00</td>
<td>15 min</td>
<td>Introduction</td>
<td>Suzi &amp; Naro</td>
</tr>
<tr>
<td>8.15</td>
<td>30 min</td>
<td>Local trauma perspective and MCQ</td>
<td>Suzi</td>
</tr>
<tr>
<td>8.45</td>
<td>30 min</td>
<td>ABCDE of Trauma and Primary survey</td>
<td>Chheng</td>
</tr>
<tr>
<td>9.15</td>
<td>30 min</td>
<td>Airway and Breathing</td>
<td>Pagnarith</td>
</tr>
<tr>
<td>9.45</td>
<td>15 min</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>10.00</td>
<td>30 min</td>
<td>Circulation and Shock</td>
<td>Visal</td>
</tr>
<tr>
<td>10.30</td>
<td>90 min</td>
<td>Skill stations Airway1</td>
<td>Visal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Airway 2</td>
<td>Pagnarith</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cervical spine &amp; Logroll</td>
<td>Choern</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chest drains</td>
<td>Chheng</td>
</tr>
<tr>
<td>12.00</td>
<td>90 min</td>
<td>LUNCH BREAK</td>
<td>Naro</td>
</tr>
<tr>
<td>13.30</td>
<td>30 min</td>
<td>Secondary survey</td>
<td></td>
</tr>
<tr>
<td>14.00</td>
<td>15 min</td>
<td>Demonstration Scenario (+/- log roll)</td>
<td>Instructor – Pagnarith</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Student – Cheng</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Patient – Visal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Assistant - Naro</td>
</tr>
<tr>
<td>1415</td>
<td>60 min</td>
<td>Scenarios</td>
<td>Pagnarith, Chheng, Choern, Visal</td>
</tr>
<tr>
<td>1515</td>
<td>15 min</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>1530</td>
<td>30 min</td>
<td>Chest injuries</td>
<td>Choern</td>
</tr>
<tr>
<td>1545</td>
<td>15 min</td>
<td>Overview and summary</td>
<td>Suzi</td>
</tr>
<tr>
<td>1600</td>
<td></td>
<td>CI OSF</td>
<td></td>
</tr>
</tbody>
</table>
## Contents of the course: day 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Duration</th>
<th>Topic</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0800</td>
<td>45 min</td>
<td>Head and Spinal trauma</td>
<td>Pagnarith</td>
</tr>
<tr>
<td>0845</td>
<td>30 min</td>
<td>Abdominal and Limb trauma</td>
<td>Chheng</td>
</tr>
<tr>
<td>0915</td>
<td>30 min</td>
<td>Trauma in Children and Pregnancy</td>
<td>Visal</td>
</tr>
<tr>
<td>0945</td>
<td>15 min</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>30 min</td>
<td>Burns</td>
<td>Naro</td>
</tr>
<tr>
<td>1030</td>
<td>90 min</td>
<td>Workshops - Analgesia, Transportation, Paediatrics, Neurological assessment</td>
<td>Pagnarith, Chheng, Visal, Choern &amp; Suzi</td>
</tr>
<tr>
<td>1200</td>
<td>90 min</td>
<td>LUNCH BREAK</td>
<td></td>
</tr>
<tr>
<td>1330</td>
<td>30 min</td>
<td>Disaster management</td>
<td>Choern &amp; Chheng</td>
</tr>
<tr>
<td>1400</td>
<td>90 min</td>
<td>Scenarios</td>
<td>Naro, Choern, Pagnarith, Chheng</td>
</tr>
<tr>
<td>1530</td>
<td>15 min</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>1545</td>
<td>15 min</td>
<td>Multiple choice paper</td>
<td>Visal</td>
</tr>
<tr>
<td>1600</td>
<td>15 min</td>
<td>Summary (MCQ) and evaluation</td>
<td>Cheng</td>
</tr>
<tr>
<td>1615</td>
<td>15 min</td>
<td>Certificates and close</td>
<td>Suzi</td>
</tr>
<tr>
<td>1630</td>
<td></td>
<td>CLOSE</td>
<td></td>
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</table>
Subsidiary activities

• The Course was officially opened by the Provincial Health Vice Director

• After the course, Dr Suzi Nou and Ms Manila Prak met with Prof. Thir Kruy in Phnom Penh, Permanent Secretary for Health, MoH to discuss further PTC courses
Media Coverage

• No media coverage was sought.
• Media coverage in Cambodia is usually fee for service
PTC Course Evaluation: a feedback session was held at the end of the course

Positive feedback

- Systematic
- good explanations
- Well organised
- teaching methods especially scenario teaching
- experienced teachers
- new knowledge
- Practical
- good equipment
- enough refreshments
- liked the pre and post test
- good communication between instructors and participants

Could improve:

- too short, more time on practical exercises especially skills and scenarios
- want to travel to do the course, to see other hospitals
- request for more training in general
- request for coffee
Further Evaluation of the success and relevance of the visit

In Cambodia, the provision of per diems to participants has been legislated.

When asked if participants were willing to pay to attend the course they answered:
*They wouldn’t do the course*

When asked if they would attend the course without a per diem they answered:
*It would depend on travel costs. If the course was held close to their home, they would come.*
*It would depend on the topics taught. They would come for teaching in Emergency Medicine and Obstetrics.*
In order to evaluate the learning from the course a pre and post test of 20 MCQs was given to the 22 participants.

<table>
<thead>
<tr>
<th></th>
<th>Pre-test</th>
<th>Post-test</th>
<th>increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average score</td>
<td>36%</td>
<td>61%</td>
<td>25%</td>
</tr>
<tr>
<td>No. of participants</td>
<td>2</td>
<td>15</td>
<td>13</td>
</tr>
<tr>
<td>with &gt;10 correct</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PTC Instructors Course

• An Instructors Course was not held
• 5 participants were identified as being suitable and interested in becoming instructors
• A 2-1-2 provider-instructor-provider course is planned for Kratie, which will include these Instructor Candidates
Future Recommendation: to confirm that staff can be released from clinical duties.

• The staff of Battambang Hospital were not able to be released from their clinical duties.

• They attended their patients each morning before the course, resulting in changes to the timetable and a later start time.

• Initially there were 26 participants. Four returned to clinical work and were invited to attend the next course, so that the hospital would not be left without staff in key departments.
Teaching materials provided

• All participants were provided with a:
  • PTC Manual, in Khmer
  • Folder
  • Pen
  • Certificate, on successful completion

Mr Visal Ratanak and Ms Naro Kong preparing materials
Acknowledgements

• Australasian College of Emergency Medicine (ACEM) funded the course

• Angkor Hospital for Children (AHC) provided the Faculty, pro bono

• Societe Cambodgienne de Anesthesie et Reanimation et de Medicine D’Urgence (SCARMU), publicised the course

• APLS Australia loaned the manikins
Summary of PTC in Cambodia

4 courses in 3 cities/towns
94 participants

- By Profession:
  - 76 successful (>50% on post test)
  - 18 Instructors

- By Location of Work:
  - 72 Hospital
  - 31 Health Centre
  - 21 NGO
  - 42 MoH