Table of Contents

1. Introduction .........................................................2
2. Primary Trauma Care Provider’s Course ...........................................3
3. Primary Trauma Care Instructors’ Course ...........................................5
4. Summary .................................................................................6
5. Recommendation ...........................................................................6
6. Conclusion ..................................................................................7
7. Acknowledgement ...........................................................................8

Attachment
1. Primary Trauma Care Course Schedule ....................................................9
2. Primary Trauma Care Provider’s Course Program .....................................10
3. Primary Trauma Care Instructors’ Course Program ...................................11
4. Feedback Form ................................................................................12
5. Participants List ...............................................................................13
1. INTRODUCTION

Primary Trauma Care (PTC) Course was developed to train local health personnel in prioritizing and treating the severely injured patients quickly and systematically using available resources, thus reducing death and disability.

Trauma is a leading cause of premature death and disability in Kiribati as is the case in many developing countries. Motor vehicle accidents, violence and falls are the main causes of injury presenting to the two main hospitals (Nawerewere and Betio) on both ends of the main island of Tarawa, as well as the South Kiribati Hospital (SKH) and Ronton Hospital in Kiritimati Island.

This report is the outcome of the PTC courses in Ronton Hospital, Kiritimati Island which was done on the 29th October to the 3rd November, 2015. We did 2 Provider courses and an Instructors Course (2 – 1 – 2).[Attachment 1 – PTC Course Schedule]

Kiribati PTC Coordinating Team

The members for this team are;
1. Dr Kabiri Tuneti – General Surgeon Tungaru Central Hospital (TCH)
2. Dr Tekeua Uriam – Anaesthetist (Final Year MMed Trainee)
3. Dr Hilda Schutz – Anaesthetist (2nd Year MMed Trainee)
4. Dr Alani Tangitau – Anaesthetist (KITP Supervisor)

The local coordinating team organized for the 5 PTC courses and the Instructors Refresher course that were delivered in June which was quite an achievement for KITP and the MHMS. As a result of these courses, we have 13 local PTC Instructors and the target was to take PTC courses to Kiritimati before the end of 2015.
With the assistance from the Director of Hospital Services (DHS), Dr Burentau Teriboriki, we were able to deliver 2 PTC courses and an Instructors Courses at Ronton Hospital in Kiritimati Island on the 29th October – 3rd November.

Plan

i. Coordinate the PTC Instructors Team:
   - Dr Alani Tangitau – Anaesthetist (TCH) : Team Leader
   - Dr Kabiri Tuneti – General Surgeon (TCH)
   - SNO Arite Tetoa – Sister in Charge Emergency Department (TCH)
   - Intern Dr Tiitai Naitoa - Intern (PH Rotation : Kiritimati)

ii. Instructors Team travel to Kiritimati via Nadi, Fiji and arrive in Kiritimati on the 28th October, 2015

iii. Target participants were: doctors, nurses, medical assistant and ambulance drivers at Ronton Hospital and all health centres in Kiritimati Island.

iv. Ministry of Health and Medical Services (MHMS) provide the funding for these courses and the Kiribati PTC Coordinating Team is grateful for the support to allow PTC courses to be done in Kiritimati Island.

2. PTC PROVIDERS COURSE

Local Trauma Perspective
Kiritimati Island people are peaceful and friendly but like anywhere in the world are not immune to trauma as expressed by the participants. Trauma is a leading cause of presentations to the Emergency Department and admissions to the wards. The most common injuries were due to interpersonal violence from domestic arguments, road traffic accidents and falls.

This PTC course was the 1st ever training to be conducted in Ronton Hospital, Kiritimati Island and this is quite an achievement for the MHMS. It was a two 2-day PTC courses and the participants were from wide range of health speciality (clinical nurses, public health nurses, doctors, medical assistant and ambulance drivers). The 1st provider course was delivered on Thursday 29th and Friday 30th October, and the 2nd provider course was on Monday 2nd and Tuesday 3rd November. Course contents were delivered using the participant manual, lectures using PowerPoint overhead projector, whiteboard presentations, demonstration scenarios, case scenarios, skill stations and workshop discussion groups. See detail programme in Attachment 2. The participant manuals were delivered to the participants a day prior to the courses.
All of the power point presentation was done in the morning sessions before lunch and slides were in English while the discussion and facilitators were mostly in I - Kiribati language. Skill Stations, workshops and scenarios were done after lunch.

Multiple Choice Questions (MCQs)

Participants did the multiple choice questions at the beginning of the 1\textsuperscript{st} day and at the end of the 2\textsuperscript{nd} day on both providers’ courses. Results are summarized on the tables below.

<table>
<thead>
<tr>
<th>Scores</th>
<th>&lt;10</th>
<th>10-12</th>
<th>13-15</th>
<th>16-18</th>
<th>19-20</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre test</td>
<td>52%</td>
<td>34%</td>
<td>10%</td>
<td>4%</td>
<td>-</td>
<td>3 – 18</td>
</tr>
<tr>
<td>Post test</td>
<td>31%</td>
<td>27%</td>
<td>31%</td>
<td>7%</td>
<td>4%</td>
<td>6 – 20</td>
</tr>
</tbody>
</table>

The results of the MCQs showed that more than half (52%) of the participants fail their pre-test and this decrease to 31% at their post-tests. Only 48% pass their pre-test MCQs compared to 69% pass in their post-test. We have one of the participants who scored full marks (20/20) at the post-test which is quite an achievement. The increase in the pass rate during their MCQs post-tests is a good sign for this PTC course training but participants still need to continue to practise what they learn at their workplace so that they can be more competent with managing trauma.
TIME FOR CELEBRATION!!!!!!!!

3. PTC INSTRUCTORS COURSE

After the first 2 days PTC Provider Course, we selected 5 staff to be trained as PTC Instructors on Saturday 31st October and the program as per Attachment 3.
At the conclusion of the two 2 days course at Ronton Hospital, all the 30 participants received their PTC certificates and 5 Instructors also received their Instructors certificates too. It’s quite a great experience for these new Instructors from this 1st ever PTC course to be held in Kiritimati Island.

Feedback forms (Attachment 4) was distributed to all participants after the course for their evaluation of the training and provide comments on how to improve in future PTC course training.

Challenges

- Lack of basic resources especially equipment especially cervical collar therefore we adjusted our skill station to include other options of immobilizing the cervical spine.
- Isolation of the Ronton Hospital, Kiritimati, and the lack of continuous medical education for the health staff
- Lack of training facilities therefore the team has to take their own laptop, projector and training materials for the PTC course.
- Since the majority of the participants are nurses, clinical & public health, medical assistant and ambulance drivers therefore we tailored our discussion to their level taking into consideration what is available in their own settings.
The main aim was to stabilize trauma patients and get help from the hospital as soon as practicable.

- Language: the use of I-Kiribati language during presentation & discussion thus create more interactive discussion while the slides were in English, as this make it easier for the participants to understand the concepts & contents of the course easily.
- It’s very expensive send the PTC Instructors team from Tarawa hence the decision to train local Instructors in Kiritimati for further courses.

4. SUMMARY

There was evidence in the above results together with feedbacks, performances during discussion and skill stations and workshops that the PTC Gospel was well taken. The participants were very enthusiastic from the start to the ending and still were hungry for more and requested if all staff member in their facilities could be educated.

5. RECOMMENDATION

- **Annual PTC courses**
  - *Kiritimati Island PTC Course*
    PTC Coordinating Team to work closely with MHMS in ensuring that all staff in Kiritimati will be trained in PTC.

- **Local PTC Instructors**
  - Regular PTC courses for the new cohort of Instructors to participate and improve their teaching skills on a regular basis.
  - Biannual Instructors refresher courses to ensure competency of our local Instructors

- **Kiribati PTC Coordinating Team**
  - The coordinating team to continue to work together with the MHMS and KITP in planning & delivering of PTC courses in Kiribati

- **Sub-regional PTC course**
  - Kiribati is ready to provide PTC courses to it’s neighbouring countries – Nauru & Marshall Islands – taking into consideration the number of local Instructors available as well as the flight schedule between these 3 countries thus making travel arrangement easy to arrange.
6. CONCLUSION

By the end of this year 2015, MHMS Kiribati has 18 local PTC Instructors, (13 in Tarawa & 5 in Kiritimati) and we have trained 130 participants throughout Kiribati from various health backgrounds ranging from Intern doctors, clinical nurses, public health nurses, medical assistant and an ambulance driver. We have done 7 PTC Provider Courses and 2 Instructors Courses in 2015

i. Betio Hospital, Tarawa – 2 Provider Courses
ii. Tungaru Central Hospital, Tarawa – 2 Provider Courses & 1 Instructors Refresher Course
iii. South Kiribati Hospital, Tab North – 1 Provider Courses
iv. Ronton Hospital, Kiritimati – 2 Provider Courses & 1 Instructors Course

This is quite an achievement for the KITP & MHMS, and we need to work together to progress and implement the recommendations and target for PTC in Kiribati as well as the other neighboring Northern & Central Pacific.

The courses were well received and appreciated by the participants and the facilitators. Most participants felt very comfortable with the hands-on approach, hence the practical sessions and discussions proved to be worthwhile.

Overall, let’s congratulate ourselves for a work well done and hope that we continue to spread the gospel of PTC not only in Kiribati but throughout the Pacific Islands & Territories.
PTC courses has been done in those island with the red mark, those are, Tarawa – Tungaru Central Hospital & Betio Hospital, Tebiteuea – South Kiribati Hospital and Kiritimati – Ronton Hospital.

7. ACKNOWLEDGEMENT

Thanks to the Permanent Secretary for Health, Dr Teatao Tiira, and the Director of Hospital Services, Dr Burentau Teriboriki, for their support with the Ministry of Health and Medical Services. We also acknowledge the support from the Kiritimati OIC, Dr Teraira Bangao, PNO and SNO for their assistance in organizing for the participants. A special thank s to the instructors team for their willingness to assist on our first ever PTC course in Ronton Hospital, Kiritimati. Congratulations to all the local participants for their keenness and enthusiasm during the training.

The PTC course was slolely funded by the Ministry of Health & Medical Services (MHMS) and we thank MHMS for making it possible to deliver these PTC courses in Kiritimati before the end of 2015. This enable MHMS to achieve it’s goal of providing PTC courses in all major hospitals throughout Kiribati (TCH, Betio Hospital, SKH and Ronton Hospital) by 2015.

Last but not the least, our sincere thanks to Odylia Teaero, KITP Program Assistant for her tireless assistance with the organizing and sorting out the logistic needs for all the team and you have been wonderful.

Congratulations to all and keep up the excellent work.
Attachment 1: Kiritimati PTC Course Program

1. TARGET
   a. 2 PTC Provider Courses
      - 1st Course: Thursday 29th & Friday 30th October
      - 2nd Course: Monday 2nd & Tuesday 3rd November
   b. 1 PTC Instructors Course
      - Saturday 31st October

2. SCHEDULE FOR THE KIRITIMATI PTC COURSE

<table>
<thead>
<tr>
<th>Date</th>
<th>ACTIVITIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday 26th October</td>
<td>Departure of Instructors Team from Tarawa – Nadi, Fiji</td>
</tr>
<tr>
<td></td>
<td>• Dr Alani Tangitau (Anaesthetist, Team Leader)</td>
</tr>
<tr>
<td></td>
<td>• Dr Kabiri Tuneti (General Surgeon)</td>
</tr>
<tr>
<td></td>
<td>• SNO Arite Tetoa (SNO Emergency)</td>
</tr>
<tr>
<td>Wednesday 28th October</td>
<td>Departure of Instructors Team from Nadi, FIJI – Kiritimati island</td>
</tr>
<tr>
<td></td>
<td>Team Arrival at Kiritimati Island @ 0630hrs</td>
</tr>
<tr>
<td></td>
<td>- Check in at the hotel</td>
</tr>
<tr>
<td></td>
<td>1400hrs</td>
</tr>
<tr>
<td></td>
<td>- Briefing with OIC, Dr Teraira Bangao</td>
</tr>
<tr>
<td></td>
<td>- SNO Clinical at Ronton Hospital distribute the Course Manual</td>
</tr>
</tbody>
</table>
- Team to prepare venue etc for the course

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday 29th October</td>
<td>Day 1 of the 1st PTC provider Course</td>
</tr>
<tr>
<td>Friday 30th October</td>
<td>Day 2 of the 1st PTC Provider Course</td>
</tr>
<tr>
<td>Saturday 31st October</td>
<td>PTC Instructors Course</td>
</tr>
<tr>
<td>Sunday 1st November</td>
<td>FREE</td>
</tr>
<tr>
<td>Monday 2nd November</td>
<td>Day 1 of the 2nd PTC Provider Course</td>
</tr>
<tr>
<td>Tuesday 3rd November</td>
<td>Day 2 of the 2nd PTC Provider Course</td>
</tr>
<tr>
<td>Wednesday 4th November</td>
<td>Instructors Team departure Kiritimati – Nadi, Fiji</td>
</tr>
<tr>
<td>Thursday 5th November</td>
<td>Instructors Team departure Nadi, Fiji – Tarawa, Kiribati</td>
</tr>
</tbody>
</table>

Attachment 2: PTC Provider Course Program

**DAY 1**

<table>
<thead>
<tr>
<th>TIME</th>
<th>TOPIC</th>
<th>INSTRUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>0800-0830</td>
<td>Set Up/Arrival of Participants</td>
<td>Team</td>
</tr>
<tr>
<td>0830-0900</td>
<td>Opening Prayers &amp; Welcome Remarks</td>
<td>Dr Teraira – OIC</td>
</tr>
<tr>
<td>0900-0940</td>
<td>Registration/Introduction/Pre PTC MCQ</td>
<td>Arite/Titai</td>
</tr>
<tr>
<td>0940-1000</td>
<td>Local Trauma Perception</td>
<td>Kabiri</td>
</tr>
<tr>
<td>1020-1040</td>
<td>ABCDE of Trauma and Primary Survey</td>
<td>Titai</td>
</tr>
<tr>
<td>1040-1120</td>
<td>Airway and Breathing</td>
<td>Arite</td>
</tr>
<tr>
<td>1120-1200</td>
<td>Circulation and Shock</td>
<td>Alani</td>
</tr>
<tr>
<td>1200-1240</td>
<td>LUNCH BREAK</td>
<td></td>
</tr>
<tr>
<td>1240-1300</td>
<td>Demonstration Scenario- Bad and Good</td>
<td>Team</td>
</tr>
<tr>
<td>1300-1330</td>
<td>Chest Injuries</td>
<td>Kabiri</td>
</tr>
<tr>
<td>1330-1350</td>
<td>Abdominal, Pelvic and Limb Injuries</td>
<td>Kabiri</td>
</tr>
</tbody>
</table>
1350-1420  **TEA BREAK**

1420-1600 Skill Stations

- Pneumothorax- Needle DC & 3-seal dressing
- Airway – Basic/Advance
- C Spine Inline Immobilisation/Log Roll

Kabiri
Alani
Arite/Titai

Scenario Practice – Group Work

1600-1630  **Overview and Summary**

1620-1700  **Registration/Set Up**

0900-1030  **Head and Spinal Injuries**

Kabiri

1030-1130  **Trauma in Children and Pregnancy**

Alani

1130-1230  **Burns**

Titai

1230-1330  **LUNCH BREAK**

1330-1500 Workshops

- Analgesia
- Transportation
- Neurological Assessment

Titai/Arite
Alani
Kabiri

1500-1515 **BREAK**

1515-1550  **Secondary survey**

Arite

1550-1650  **Disaster Management**

Kabiri

1650-1710  **Repeat MCQ Post PTC**

Titai

1710-1800  **Overview and Summary/Evaluation/Certificate Presentation**

Team

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**Attachment 3 : Instructors Course Program**

**Saturday 31st October, 2015**

8.15 Registration and welcome – Team

8.30 Introduction to the day and our training methods – Dr Alani

8.45 SESSION 1: How to improve your communication skills – Dr Alani

9.45 SESSION 2: How to be an interactive instructor – Dr Kabiri
Part 1: How to prepare and ask good questions
Part 2: How to prepare and lead PTC Workshops
10.45 *Refreshments break*

11.15 SESSION 3: How to run scenarios – Dr Alani

12.30 *Lunch*

13.15 SESSION 4: How to run the skill stations – Dr Kabiri

14.15 SESSION 5: How to run a PTC course – Dr Titai
   General information
   Planning the follow-on 2-day course

14.50 *Refreshments break*

15.00 SESSION 6: How to give a good PTC lecture – SNO Arite
   Part 1: How to use slides effectively
   Part 2: How to deliver a good lecture

16.40 Confidence Matrix
   Instructor day evaluation

17.00 Finish

Attachment 4: Feedback Form

<table>
<thead>
<tr>
<th>TOPIC</th>
<th>Unsatisfactory</th>
<th>Satisfactory</th>
<th>Very Good</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABCDE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1° Survey</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Airway &amp; Breathing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Circulation &amp; Shock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chest injuries</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abdomen injuries</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pelvic</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
injuries
Limb injuries
Head & spinal injuries
Children & Pregnancy trauma
Burns

2° Survey

**SKILL STATION**
Airways – basic & advance
Chest drains
Logroll
Cervical spine

**SCENARIO**
Analgesia
Transportation
Neurological assessment
Disaster

**COMMENTS**

Attachment 5 : Participants List

**PTC PROVIDERS COURSE [30]**

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION</th>
<th>NAME</th>
<th>POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.Tokoriri Kiauea</td>
<td>Nurse</td>
<td>1.Tekanebu Inantaake</td>
<td>PH Nurse</td>
</tr>
<tr>
<td>2.Arote Uriam</td>
<td>Medical Assistant</td>
<td>2.Amy Tekiabeti</td>
<td>Dental Hygienist</td>
</tr>
<tr>
<td>3.Tauapo Naata</td>
<td>Nurse Aide</td>
<td>3.Iakoba Itibita</td>
<td>Medical Assistant</td>
</tr>
<tr>
<td>4.Tebikea Kimaere</td>
<td>Nurse</td>
<td>4.Beari Tiribo</td>
<td>Medical Assistant</td>
</tr>
<tr>
<td>5.Tereitabuki Tarangutu</td>
<td>PH Nurse</td>
<td>5.Teuaba Bataroma</td>
<td>Nurse</td>
</tr>
<tr>
<td>------------------</td>
<td>-------</td>
<td>---------------------</td>
<td>-------</td>
</tr>
<tr>
<td>11. Kokoria Tebitaki</td>
<td>Xray Technician</td>
<td>11. Iakobwa Teuroko</td>
<td>Nurse</td>
</tr>
<tr>
<td>14. Dr Teraira Bangao</td>
<td>Anaesthetist</td>
<td>14. Dr Baranika Toromon</td>
<td>Obstetrician</td>
</tr>
</tbody>
</table>

**PTC INSTRUCTORS COURSE [5]**

1. Dr Teraira Bangao – Anaesthetist
2. Tokoriri Kiauea – Nurse
3. Teremeti Erati – Nurse
4. Nana Teboko – Nurse
5. Teretabuki Tarangutu – PH Nurse