

Rwanda PTC Foundation course reports

December 5-9 2005

- PTC course 1 – December 5-6
- PTC Instructors Course Dec 7
- PTC course 2 Dec 8-9
- Formation of national PTC committee Dec 9

At the request of the Rwandan Ministry of Health, the WHO Representative for Rwanda, the Rector of Kigali Health Institute, and professional colleagues in surgery, anaesthesia, and medicine, a PTC foundation course was held in the Kigali Health Institute on the above dates. The package consisted of:

1. A two day First Primary Trauma Care (PTC) course led by external PTC instructors
2. A one day PTC instructors course led by external PTC instructors
3. A two day PTC course led and delivered by the newly-trained Rwandan instructors
4. The formation of a Rwandan PTC committee to lead and plan future development of PTC in Rwanda.

First PTC course

The course was held in Kigali Health Institute, in the Rwandan Capital Kigali. The course programme is attached (Annex 1). Participants were drawn from Surgery, Anaesthesia and Medicine at both physician and Clinical Officer grades. For this first course many participants had been pre-selected as possible instructors, and many were already involved in teaching in KHI or in the medical school in Butare. Lists of participants and their specialty background are in Annex 2.

There was good administrative support in preparation for the course thanks to the staff of KHI. An excellent teaching room was provided, complete with teaching aids including Digital projection, whiteboard, flipchart, and overhead projection. This was backed up by the availability of an excellent skills laboratory with manikins and teaching equipment. Constant secretarial help was available from KHI. Ample refreshments and lunches were provided for the participants and faculty, together with necessary transportation and accommodation for out-of-town participants. In accordance with PTC policy, no per diems were paid to participants nor did the faculty (international or national) receive any fees for their contributions.

As shown in the programme, the course consisted of a mixture of teaching in lectures, and informal small group teaching based on practical skill stations, scenarios, and workshops. Although the English language is widely understood in Rwanda, most of the participants are more comfortable in French as a working language. We were glad that the PTC manual and slides were available to us in French – the slides thanks to the hard work of Mr. Etienne Nsekere of KHI. These slides will be a valuable resource in future for use in other Francophone countries.



Since the faculty were all native English speakers, the majority of formal lectures were delivered in English, but French slides were used throughout to maximise comprehension. We made it clear from the onset that participants could respond and discuss in French or English. 2 of the 3 instructors had sufficient French to conduct the small group sessions in French or English as appropriate. This formula appeared to work well.

Course manuals in English for all participants were provided by PTC, and in addition locally printed French manuals were available for all who preferred them.

As usual on PTC courses, an MCQ examination was given at the beginning and end. all participants showed great improvement in results from an average mark of 56% in the first test to 88% in the second. These marks would have been even higher except for the fact that we only had the MCQ in English, and this made it much more difficult for some of the participants. One student improved her exam result from 41% to 100% and was awarded a book prize for the most improved result. She subsequently became an effective instructor!

At the conclusion of the course ten of the participants were invited to attend the instructors course, and then to teach on the second PTC course which immediately followed it. Choices were made on the basis of performance on the course, and on the advice of local knowledge of teaching potential. These choices were made before the final MCQ was administered, and we were very happy to see that the MCQ results supported our decisions.

PTC certificates were presented to participants at a ceremony on Friday 9th December attended by the KHI Vice-Rector (Dr. Chantal), a representative from the Ministry of Health (Dr. Claude) and WHO representatives (Dr. Andre & Mme Askiri).

Drs Oloruntoba and Dobson were interviewed by national television at the close of the course.

PTC Instructors Course



The following participated in the Instructors course:

Etienne Nsereke	Anaes Clinical Officer. Lecturer KHI/CHK
Emmanuel Kayibanda	Surg. KFH/CHK
Sr. Monique Karikirwa	Anaes. Clinical Officer, Butare
Martine Makanga	Surg. Med Sch. Butare
Charles Nyakanga	Surg. KFH
Christine Ufashingabire	Anaes. Clinical Officer, Lecturer KHI:CHK
Paul Kabayiza	Physician. Kanombe Military Hospital, Kigali
Simeon Bigirimana	Anaesthesiologist. KHI.
Rampanjato	Anaesthesiologist. CHK (Belg Co-operation/Madagascar)
Schadrack Nambayisa	Anaesthesiologist.. KHI/CHK
Alexis Mutangana	Kanombe Military Hospital, Kigali

(KHI =Kigali Health Institute, CHK= Kigali Central Hospital, KFH=King Faisal Hospital)

The course programme is also included in Annex 1. The course consisted of teaching by the overseas PTC faculty, and in addition Shirley Dobson who was teaching on a simultaneous KHI “Training of Trainers” course, and who gave valuable input from the point of view of a specialist educationalist.

*In micro-teaching each participant is required to produce after 10 min preparation either a section of a formal lecture, or 5 minutes of small group interactive teaching. After presenting this in front of their colleagues they are then given feedback on their teaching technique (What went well? Why? What might you do differently next time?)

The faculty were delighted to observe a substantial development of the participants' teaching skills over the course of the day. This improvement was even more evident on the following day, when our Rwandan colleagues took on full responsibility for both organising and running the second PTC course.

Second PTC course



A second PTC course, organised by Etienne Nsereko and led entirely by our Rwandan colleagues, immediately followed the Instructors course. As is our routine, we have asked the local organisers to produce their own report for this course. As well as giving a genuine local perspective, this also helps them recall the elements of the course, which later helps them when they are preparing the next course.

We were delighted at the efficient way in which our Rwandan colleagues applied themselves to organise and run the second PTC course. The overseas faculty members were present as observers, and to help and support in any way on request. Our experience was that, not only was our help not required, but that various elements of the course – timekeeping, organisation of teaching rooms etc, was significantly better than the course we had run ourselves! The MCQ results for the second course were fully comparable with the first course (see annex 2).

Future planning

At the close of the second PTC course, the Rwandan faculty and other local people involved met with us to set up a *Rwandan National PTC* committee consisting of:

Dr Emmanuel Kayibanda (Chair) Surgeon, King Faisal Hospital
Dr Martine Makanga Paediatric & General Surgeon

Mr Etienne Nsereko
Dr Paul Kabayiza
Dr. Mpanjato

Anaesthetic Clinical Officer, Lecturer KHI
Physician, special interest in Trauma, Kanombe Mil. Hosp.
Physician Anaesthetist (Belgian Co-operation but
originating from Madagascar

Dr. Kayibanda is a senior surgeon and possible future head of the government hospital in Kigali. He will give enthusiastic support and good advice.

Dr Martine Makanga is a paediatric/general/orthopaedic surgeon who teaches at the medical school in Butare.

Etienne and Paul already have an interest in Trauma; Paul has already been involved in pre-hospital care; Etienne has been invited increase his experience by working on trauma for a year in Durban. These two will be the engine room producing future local PTC courses.

Dr. Mpanjato is a talented teacher, completely fluent in both French and English. He will ultimately return home to Madagascar, and is interested in introducing PTC there.

We have been informed that it is likely that Dr.Paul Kabayiza, physician at Kanombe Military Hospital, Kigali, and now a trained PTC instructor, will be invited by the Ministry of Health to lead a project in pre-hospital care of Trauma patients. If this occurs, it will provide PTC with valuable continuing contacts.

We have suggested that the military hospital would be a suitable venue for the next PTC course, organised by Drs Kabayiza, Mutangana & Mr. Nsereko.

A full list of participants, mostly with addresses and phone numbers, has been supplied to us by the course organisers (annex 3). This will allow us to follow up course participants, and direct them to the PTC and other relevant websites.

We acknowledge with thanks the following:

- The Rector, Vice-Rector and staff of Kigali Health Institute for their invitation, welcome, professional and personal support
- KHI for providing excellent teaching facilities at no cost to PTC Foundation
- The World Health Organization for their advice and financial support, and attendance at the awards ceremony
- The Rwandan Ministry of Health for their help and participation, through KHI and through the attendance of their representative Dr Andre at the awards ceremony
- The Association of Anaesthetists of Great Britain & Ireland for their financial support both for the course, and travel & accommodation costs of Drs. Frossard & Dobson
- WFSA for its support of Dr. Oloruntoba's fare and accommodation
- Dr. David Oloruntoba for his leadership of the course
- Mr. Etienne Nsereko for his tireless work organising the courses locally, and for translating all the PTC slides into French
- Dr. Henry Bukwirwa & Mr. Charles Rangira for their support of and through the Anaesthetic dept.
- Dr. Jeanne Frossard for conceiving & planning the course, for her liaison role, and for translating all the slides in the instructor manual into French

Annex 1 - Course Programmes

First PTC course. Dec 5th & 6th 2005, Kigali Health Institute

TIME		TOPIC	INSTRUCTOR
DAY 1			
9.00	15 minutes	Introduction	M. Dobson
9.15	30 minutes	Local trauma perspective and MCQ	H. Burkwirwa
9.45	30 minutes	ABCDE of Trauma and Primary survey	D. Oloruntoba
10.15	45 minutes	Airway and Breathing	J. Frossard
11.00	15 minutes	BREAK	
10.15	45 minutes	Circulation and Shock	M. Dobson
12.00	80 minutes	Skill stations Airway Cervical spine Chest drains	All lecturers
13.20	40 minutes	LUNCH BREAK	
14.00	30 minutes	Secondary survey	D. Oloruntoba
14.30	15 minutes	Demonstration Scenario	All lecturers
14.45	60 minutes	Scenarios	All lecturers
15.45	15 minutes	BREAK	
16.00	30 minutes	Chest injuries	H. Burkwirwa
16.30	15 minutes	Overview and summary	D. Oloruntoba
DAY 2			
9.00	30 minutes	Head and Spinal injuries	M. Dobson
9.30	30 minutes	Abdominal and Limb injuries	J. Frossard
10.00	30 minutes	Paediatrics and Obstetrics	H. Burkwirwa
10.30	15 minutes	BREAK	
10.45	30 minutes	Burns	J. Frossard
11.15	80 minutes	Workshops Analgesia Transportation Paediatrics Neurological assessment	All lecturers – we can alternate stations
12.35	55 minutes	LUNCH BREAK	
13.30	30 minutes	Disaster management	M. Dobson
14.00	30 minutes	Demonstration scenarios	All
14.30	60 minutes	Scenarios	All
15.30	15 minutes	BREAK	
15.45	15 minutes	Multiple choice paper	
16.00	15 minutes	Summary and evaluation	D. Oloruntoba
16.15	15 minutes	Certificates and close	Shirley Dobson

PTC Instructors Course, Wednesday 7th December, Kigali Health Institute

8.35	Welcome/Introduction	Jeanne Frossard
8.45	Tips for Teachers	Shirley Dobson
9.05	PTC around the world	Mike Dobson
9.30	Teaching Methods & Preparation	Shirley Dobson
10.20	Preparation for *Micro-teaching session 1 (lectures or interactive)	
10.30	Micro-teaching practice for all trainees	
11.20	Preparation for Micro-teaching session 2 (interactive or lectures)	
11.30	Micro-teaching practice for all trainees	
13.00	Lunch	
14.00	Running a skill station	Jeanne Frossard
14.20	Trainee instructors practice running a skill station	
15.20	How to run a scenario (Class demonstration)	Mike Dobson
15.45	How to organise a PTC course	David Oloruntoba
16.30	Rwandan Instructors meet to plan next day's course	

Second PTC course Dec 8th & 9th 2005

TIME		TOPIC	INSTRUCTOR
DAY 1			
9.00	15 minutes	Introduction	Etienne. Nsereko
9.15	30 minutes	Local trauma perspective and MCQ	Etienne. Nsereko
9.45	30 minutes	ABCDE of Trauma and Primary survey	Grace Achiya
10.15	45 minutes	Airway and Breathing	Christine
11.00	15 minutes	BREAK	
10.15	45 minutes	Circulation and Shock	Emmanuel
12.00	80 minutes	Skill stations Airway Cervical spine Chest drains	All lecturers
13.20	40 minutes	LUNCH BREAK	
14.00	30 minutes	Secondary survey	Betty Khainza
14.30	15 minutes	Demonstration Scenario	All lecturers
14.45	60 minutes	Scenarios	All lecturers
15.45	15 minutes	BREAK	
16.00	30 minutes	Chest injuries	Schadrack
16.30	15 minutes	Overview and summary	Etienne
DAY 2			
9.00	30 minutes	Head and Spinal injuries	Paul
9.30	30 minutes	Abdominal and Limb injuries	Mpanjato
10.00	30 minutes	Paediatrics and Obstetrics	Simeon
10.30	15 minutes	BREAK	
10.45	30 minutes	Burns	Alexis
11.15	80 minutes	Workshops Analgesia Transportation Paediatrics Neurological assessment	All lecturers
12.35	55 minutes	LUNCH BREAK	
13.30	30 minutes	Disaster management	Mpanjato

14.00	30 minutes	Demonstration scenarios	All
14.30	60 minutes	Scenarios	All
15.30	15 minutes	BREAK	
15.45	15 minutes	Multiple choice paper	
16.00	15 minutes	Summary and evaluation	D. Oloruntoba

Annex 2 –MCQ results of the 2 PTC courses

PTC Course 1

Initial	Final
27	27
9	19
17	21
26	26
9	18
6	27
21	21
21	25
10	21
7	13
9	20
23	23
8	20
8	23
11	22
17	28
14	22
15	17
8	25

PTC course 2

Initial	Final
12	20
11	22
14	22
13	21
14	17
15	19
15	17
12	19
12	20
9	16
14	20
11	28
21	24
10	17
13	20
20	25
	19
	28
	374

Average marks
56% **88%**

54% **83%**

Calculation of marks: Total correct/25 expressed as %

5 questions (9, 14, 15, 16, 21) were disregarded because the level of English required to understand them was higher than could be expected in Rwanda

Annex 3 – Course Participants

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PRIMARY TRAUMA CARE

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PRIMARY TRAUMA CARE

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Annex 4 – expenses (AAGBI – IRC)

Course expenses

Pre course – sent by Bank transfer from Mike Dobson to Henry Bukwirwa	£200
Contribution towards transport & accommodation of out-of-town participants & lunches	
Photocopying, administrative & secretarial charges	
Transport for foreign lecturers to & from course venue each day (\$1741)	= £1007
Cost of venue – 2 classrooms, teaching skills laboratory with manikins etc, laptop & data projector provided by KHI	£0.00

Airfares

London-Kigali (Kenya Airways, economy) Drs Dobson & Frossard	£1202.60
Hotel Bill (2/5 of \$ 2641)	£611.17
Total expenses: Drs. Frossard & Dobson + course expenses	£3020.77

(Dr Oloruntoba's expenses were supported from WFSa funds)