

Primary Trauma Care Course Report

Matadi, RDC November 2016



Introduction

The first PTC course was run in the Democratic Republic of the Congo in February 2016. A course was run in Matadi and then a course in Boma, both in the Kongo Central province. The course was run by a team of UK volunteers, working with the King's Kongo Central Partnership. The King's Kongo Central Partnership (KKCP) is a long-term partnership between the King's Centre for Global Health in London and the Kongo Central Ministry of Health in the Democratic Republic of the Congo. The long-term goal of the King's Kongo Central Partnership is to improve health outcomes in the area of trauma through trauma system development, clinical care and training.

On this occasion, a one-day instructor course was run with participants from the February PTC courses in Matadi and Boma. This was followed by the two day PTC course with participants from the Kongo Central province.

Programme and Location

Tuesday 29th November, 2016: One day PTC instructor course.

Wednesday 30th and Thursday 31st November, 2016: Two day PTC course.

The course started at 9am both days (1 hour late) and finished at 5pm. There was a mid-day meal for everyone prepared by one of the Kinkanda hospital nurses.

The course was held at the OMS (WHO), on the Kinkanda hospital grounds in Matadi. The rooms were provided free of charge. The small room was used on the first day and the larger room on days 2 and 3. The technical stations were carried out in the outdoor space.

Faculty

PTC Instructor course

Dr Jeanne Frossard: UK consultant anaesthetist, PTC board trustee. Jeanne and Liz met on the PTC course in Madagascar in September 2015.

Dr Eugene Niyirera: Rwandan general surgeon.

Eugene was recommended by Lando, PTC instructor in Rwanda. Jeanne taught on the PTC course Eugene participated in in Rwanda in 2014.

Miss Elizabeth Tissingh: UK T&O trainee, KKCP lead.

Liz ran the February 2016 PTC course and is currently living in Matadi.

PTC Course

Dr Patricia Matondo: post graduate trained anaesthetist, Hopital Provinciale de Reference Kinkanda, Matadi

Dr Laurent Nzungu: surgeon, chief of staff, Hopital Provinciale de Reference Kinkanda, Matadi

Dr Georges Baka: ED and HDU physician, Hopital Provinciale de Reference Kinkanda, Matadi

Dr Constant Balu: general physician, medical faculty, Universite de Joseph Kasa Vubu, Boma

Dr Clement Ngoma: general physician, Centre Medicaux la Majorite, Boma

Course participants

Course participants were suggested by Dr Baka, Dr Patricia, Dr Nzungu, Liz and approved by the Kinkanda hospital medical director, Dr Bijou Nsoki Nzemba. Clinicians were chosen mainly from Kinkanda hospital but also two doctors from a local state hospital, a nurse from a private hospital where Dr Patricia works and a medical student Liz taught earlier in the year.

The course participant list is as follows:

MFUNDU MBUANGI	JOENEL	MEDECIN	MEDICAL STUDENT
BIYENGO MUANDA	CHARLOTTE	INFIRMIERE	HGR KINKANDA
VANGU MBUINGA	JEAN ROBERT	INFIRMIER	HGR KINKANDA
KITA MAYOLA	THIERRY	MEDECIN	CRM/ MVUZI
NZUZI NDOMBASI	EUGENE	INFIRMIER	HGR/KINKANDA
LUMUANGU NSUNDA	DRIENNE	INFIRMIERE	HGR /KINKANDA
PAMBU LANDU	MELINA	INFIRMIERE	CM/ LA TRINITE
LUYEYE NSOLOLA	AARON	INFIRMIER	HGR/KINKANDA
BEBI MAYINDOMBE	WILLY	ANESTHESIS TE	HGR/KINKANDA
NSIMBA WUMBA	MANGUY	INFIRMIER	HGR/ KINKADA
MVUMBI VUMUKA	GERTRUDE	INFIRMIERE	HGR KINKANDA
KUMIMBENGA PEMBE	PAULINE	INFIRMIERE	HGR KINKANDA
PHADU BAZOLA	ANGELE	INFIRMIERE	HGR KINKANDA
KAPINGA KABEYA	ANGELE	MEDECIN	HGR KINKANDA
NZUZI NGIAMBILA	ARMAND	MEDECIN	HGR KINKANDA
KINKELA DIAMBU	ANNE DEDE	MEDECIN	HGR KINKANDA
MUKENDI DIBAYA	JEAN CLAUDE	MEDECIN	CS HYGIENE
NZITA PAMBU	ERIC	MEDECIN	HGR KINKANDA

Materials

Materials from the February course were re-used. Course paperwork was photocopied at a printing press in Matadi. Jeanne brought additional materials (oxygen masks, cannulas) from the UK. A projector and airway manikin was purchased for PTC work in the DRC by a donation given by the Cambridge Round Table group to KKCP. All other materials were sourced locally.

Funding

The course was funded by the KKCP budget. This covered return airfares for Jeanne and Eugene, course meals, travel and accommodation for the two instructors from Boma and course materials.

Scores

PTC Instructor Course

Verbal feedback was positive. The change in confidence was excellent from an overall average of 10 to 32 (out of 40). A change in teaching style in the morning hospital handover meeting has already been noticed.

PTC Course

The average percentage change in pre and post-test scores was 15.8% improvement. Certain individuals did particularly well with score improvements from 13 to 20 (medical student) and 9 to 18 (anaesthetic nurse). Of concern, a few individuals did not score well and their post-test scores were worse. Dr Patricia has identified this and will speak to the participants individually.

The average percentage change in confidence was 23.8%. Of concern, 6 nurses had high confidence (75% or more) but poor post-test scores (less than 7).

Certificates

Course certificates were printed locally. The PTC instructor course certificates were signed by Liz and the minister of health for the province (Prof Therese Mambu, main partner with the KKCP). The PTC course certificates were signed by Dr Patricia and the minister of health.

Feedback

Verbal feedback and written feedback was positive.

The table below shows the numerical feedback given.

Session	Reactions (1=Mauvais 5=Excellent)				
	1	2	3	4	5
Perspective globale de trauma			2	4	11
Introduction au PTC	1		2	6	8
ABCDE	2	1		3	10
Voie Aerielles et Respiration	1		1	4	11
Circulation et Choc			5	2	9
Poste Technique		1	3	6	7
Trauma Thoracique		1	4	6	6
Trauma Abdominal & Pelvienne		1	2	5	9

Scenario Demo			1	6	9
Trauma Cranian & Rachis Cervical	2		2	7	6
Trauma Pediatric & Femme Enceinte		2	3	5	6
Evaluation Secondaire	1		1	6	7
Brûlures	1	1	1	7	6
Ateliers		1	2	3	11
Prise en Charge des Desastres			4	3	9

Below, a selection of the written feedback:

“Cette formation m'a permis d'intégrer certaines notions de prise en charge de traumatisé qui m'échappait. Maintenant, je connais qu'il faut toujours procéder par ABCDE, le refaire si c'est nécessaire.”

“La chose la plus importante appris est la méthode de stabiliser le patient pour lui préserver la vie.”

“Nos actions dans les 2-5 minutes peuvent sauver la vie humaine pendant la prise en charge de polytraumatisme.”

“J'ai appris à agir en urgence en évaluant premierement le ABCDE en tout cas de traumatisme car le manque de stabilité des cas derniers peut emporter le malade.”

“Je serai coordonnée dans la PEC de trauma en urgence grâce à l'évaluation primaire et secondaire.”

“J'ai appris les gestes à poser en urgence en cas pneumothorax, hémorthorax, fracture du bassin post-traumatique.”

“Avant c'était d'une manière désordonnée. Actuellement, je vais commencer à apprendre la prise en charge par les ABCDE.”

“Je donnerai l'antibiothérapie en cas de fracture ouverte le premier instant.”

“L'utilisation de l'oxygène pour moi était réservée au spécialiste mais ce jour je peut le faire.”

Future plans

We are planning to run a 2:1:2 PTC course in February 2017. Dr Idi Marcel Ehanga, a neurosurgeon from Kinshasa, will join us for this, as well as a small team from the UK. This may be run in Boma, in order to target clinicians from the western part of the province. Dr Patricia will take the lead on this.

Thereafter, two other PTC delivery routes are being explored:

- as part of the medical school curriculum at the UKV in Boma
- as a modular course at the different institutions where instructors are based