

Primary Trauma Care Foundation & Mercy Ships



PRIMARY TRAUMA CARE AND INSTRUCTOR COURSES, OCTOBER 3RD-7TH 2016 ON BOARD AFRICA MERCY, PORT OF COTONOU, BENIN

At the invitation of Mercy Ships, a team of PTC instructors travelled to Benin to provide a standard package of courses consisting of a 2-day PTC course, a 1-day instructor course and a further 2-day PTC course delivered by the new Beninese instructors. On the first course we trained 16 participants in PTC, of whom 6 went on to train as instructors. Five of these instructors then ran the second course in its entirety, with only mentoring from the foreign faculty. A further 16 participants were trained in PTC on the second course. All courses were conducted in French.



In addition to its amazing surgical and rehabilitative programme, for which it is justly famous, in recent years Mercy Ships has developed an extensive Medical Capacity Building Programme. Training in PTC has been an integral part of this and Benin is the third country in which Mercy Ships has introduced PTC – the first one having been in Congo in May 2014 and the second in Madagascar in 2015 & 2016.

Africa Mercy has a crew of around 430 people, which supports a hospital facility with 5 operating theatres and 80 inpatient beds. The fact that it takes 430 well-trained people to support a medical enterprise of this size indicates the difficulties faced by local hospitals, with just a tiny fraction of those resources. Africa Mercy is currently the largest civilian hospital ship in the world (Mercy Ships are commissioning a larger one) and it was formerly a train-carrying ferry operating in the Baltic.

Foreign PTC faculty members:

Dr Caroline Price (Consultant Anaesthetist, Gloucestershire Hospitals, UK)

Dr Toky Razarasoa Lapasoah Raharimanana (O&G surgeon, CHD Fénérive Est Toamasina, Madagascar)

Dr Flossy Carpenter (T&O Surgeon, Bristol, UK)

Dr Henry De'Ath (General Surgeon, Winchester, UK)

Mercy Ships Medical Capacity Building team

Dr Michelle White (Medical Director)

Krissy Close (MCB Manager)

Abby Watrous (MCB Project Manager)

Joan Kotze (MCB)

Newly formed Beninese PTC committee:

Président: Dr Pierre Sodonougbo

Secrétaire: Dr Alfred Hounsa

Secrétaire Adjoint: Dr Jean Kassin

Organisateur: Dr Mikaela Moustafa

Tresorière: Dr Charbelle Azanlin

Organisateur Adjoint: Dr Cardinal Akpaka



Programme

The programme is attached below. The standard programme from the revised (2015) PTC teaching materials was followed. The programme reproduced is actually that from the second PTC course as taught by the newly-trained instructors indicating the rapid progression demonstrated by the local faculty. During the second course individual feedback and encouragement was provided, but the course was entirely taught by the Beninese instructors. The trainee instructors demonstrated that they were highly enthusiastic, motivated, intelligent and fast learners.



Outcomes

The following were achieved:

1. Training in PTC of 31 Beninese healthcare practitioners
2. Training of 6 new Beninese PTC instructors
3. Establishment of a national Beninese PTC committee under the leadership of Dr Pierre Sodonougbo
4. Preliminary plans by the new PTC committee to run a course in CnHU Cotonou in December 2016
5. Plans by Mercyships to run another PTC course at the Hotel Du Port in Cotonou in March 2017

Acknowledgements

As always, we were overwhelmed by the efficiency of the ship's administrative team, by the warmth of our welcome and the comfort of our stay on board the ship. The ship provided excellent and comfortable accommodation for us. All our meals and those of all the participants were provided free of charge, as was our accommodation. The ship's administration also used their skill and local knowledge to help us arrange our flights.

Course statistics

Course 1

16 Participants, mixture of general duties doctors and “médecins urgentistes” (emergency physicians).

Instructor Course

Names of instructors trained:

Dr Pierre Sodonougbo

Dr Alfred Hounsa

Dr Jean Kassin

Dr Mikaela Moustafa

Dr Charbelle Azanlin

Dr Cardinal Akpaka

Course 2

16 Participants, a mixture of doctors and nurses.

Pre and post course outcomes:

| | MCQ score | | Confidence matrix | |
|----------|------------|-------------|-------------------|-------------|
| | Pre course | Post course | Pre Course | Post Course |
| Course 1 | 40% | 74% | 55% | 80% |
| Course 2 | 46% | 64% | 67% | 85% |

The MCQ's and confidence matrices used were those of the new 2015 PTC version - 30 MCQ questions, and 8 written clinical scenarios in which participants rated their confidence levels of ability to manage such a case on a 1-5 scale.

Comments:

'This course has helped me a lot and I have learned a lot. Thank you so much and may God bless you.'

'I am happy for being part of this course. I wish training of this kind could be repeated.'

'I am happy to be part of this training. I wish to work with Mercyships alongside the patients.'

'More practical aspect of the training than theory.'

'Communications have been accessible, most of the trainers were humble.'

'Thank you for giving us such a big opportunity to learn.'

Annex 2
Programme

**Programme du stage de PTC, Benin
 5-6 Octobre 2016**

| Journée 1 | | | |
|------------------|-------|---|--|
| 8.30 | 30' | Introduction/Bienvenue + MCQ | Dr Pierre, Dr Kassin |
| 9.00 | 15' | Perspective locale de trauma | Dr Moustapha |
| 9.15 | 15' | Introduction au PTC | Dr Pierre |
| 9.30 | 30' | ABCDE et évaluation primaire | Dr Alfred |
| 10.00 | 10' | PAUSE | |
| 10.10 | 40' | Voies aériennes et respiration | Dr Charbelle |
| 10.50 | 35' | Circulation et choc | Dr Kassin |
| 11.25 | 35' | Trauma thoracique | Dr Moustapha |
| 12.00 | 45' | DEJEUNER | |
| 12.45 | 4x20' | <i>Postes de techniques (chronométrage Mike)</i> <i>Voie aérienne essentielle</i> <i>Voie aérienne avancée</i> <i>Drainage thoracique</i> <i>Rachis</i> | Dr Charbelle Dr Moustapha Dr Pierre Dr Alfred |
| 14.05 | 10' | PAUSE | |
| 14.15 | 50' | Trauma abdominale, pelvienne & des membres | Dr Pierre |
| 15.05 | 15' | Scénario démonstrative Médecin – Alfred, Instructeur – Pierre, Aide – Charbelle, Malade - Kassin | Tous |
| 15.20 | 80' | Scénarios (4 groupes) (Chronométrage Michelle) Groupes: 1+2 Moustapha, 3+4 Pierre, 5+6 Alfred, 7+8 Charbelle | Tous |
| 16.40 | 5' | Résumé de la journée | Dr Mousapha |

| Journée 2 | | | |
|------------------|-------|--|---|
| 8.30 | 45' | Trauma crânien & du rachis | Dr Pierre |
| 9.15 | 30' | Trauma en pédiatrie et de la femme enceinte | Dr Charbelle |
| 9.45 | 30' | Les brûlures | Dr Moustapha |
| 10.15 | 15' | PAUSE | |
| 10.30 | 4x20' | <i>Ateliers (Chronométrage Jeanne)</i> <i>Analgesie</i> <i>Transportation du malade</i> <i>Trauma pédiatrique</i> <i>Evaluation neurologique</i> | Dr Moustapha Dr Kassin Dr Charbelle Dr Pierre + Alfred |
| 12.00 | 30' | Evaluation secondaire | Dr Alfred |
| 12.30 | 40' | DEJEUNER | |
| 13.10 | 50' | Prise en charge des désastres | Dr Kassin |
| 14.00 | 80' | Scenarios: 9+10: Moustapha, 11+12: Pierre, 13+14 Alfred, 15+116: Charbelle | Tous |
| 15.20 | 10' | PAUSE | |
| 15.30 | 15' | Examen MCQ | Dr Kassin |
| 15.45 | 20' | Résumé, réactions & commentaires, évaluation | Dr Moustapha |
| 16.05 | 15' | Certificats, fermeture | Dr Pierre |