



# 14<sup>th</sup> Primary Trauma Care Course, Apollo Hospital, Delhi, India

January 29-30, 2009

## Executive Summary



- A 15 member team of PTC instructors from Delhi
- 24 participants, consisting of senior and junior doctors from Delhi, Kolkata, Madagascar, Kenya, UK and Iraq were selected for the course.
- A two-day PTC course was run.

## Purpose of the Course

- To introduce and teach the concepts and principles of PTC
- To identify members who would be suitable to join the team of instructors.



## Background

- Every effort was made to learn from the experience of the previous courses and to maintain the appropriateness of this trauma course in accordance to the needs of the district hospitals of India.
- It was kept in mind that the level of course should not be an exhaustive exploration of clinical traumatology but to remain focused on the ABCDE of resuscitation.

- The format and contents of the lectures, trauma scenarios, small group discussions and the skill stations were kept realistic with the appropriate models and equipments.



### **Support involved in the Course**

**Faculty members of PTC Delhi, India** organised the sessions. Auditorium, IT support and digital imaging facilities were provided by the Indraprastha Apollo Hospital, New Delhi. Meals, refreshments and Tea were sponsored by different supporting organizations.



Manikins and most of the equipment were courtesy Indian Head Injury Foundation with assistance of Ms Jaya Gaur.

Ms Adu,  
Ms Payal  
and Ms  
Chitra  
provided  
secretarial



and transport assistance.

Manuals and other printed material including MCQs, Evaluation forms, Certificates, registration slips etc were arranged by them. Their role was most crucial and without their organizational skills, the program would not have materialized.

### **List of Faculty**

<p><b>Dr. Rajendra Prasad</b> Neurosurgery &amp; Spine Surgery</p> <p><b>Dr Tarun Sahni</b> Internal Medicine</p> <p><b>Dr. Arun Prasad</b> General &amp; Minimal Access Surgery</p> <p><b>Dr Vikram Mahajan</b> Anesthesiology</p> <p><b>Dr Kuldeep Singh</b> Plastic Surgery</p> <p><b>Dr. Yatindra Kharbanda</b> Orthopaedics</p>	<p><b>Dr Lawrence Gernon</b> US Embassy</p> <p><b>Dr Purnima Dhar</b> Anesthesiology</p> <p><b>Dr Yash Jhaveri</b> Critical Care, Fortis Hospital</p> <p><b>Dr Vijay Kumar</b> Anesthesiology</p> <p><b>Dr. Anita S Bakshi</b> Pediatric Intensive Care</p> <p><b>Dr. Priya Singh</b> Emergency Medicine</p>	<p><b>Dr. Havind Tandon</b> Orthopaedics</p> <p><b>Dr. Chitra Chatterjee</b> Anesthesiology</p> <p><b>Dr. Shyam Sunder</b> Neurosurgery</p> <p><b>Dr. Rakesh Mahajan</b> Vascular Surgery</p> <p><b>Dr Vandana Prasad</b> Pediatrics</p> <p><b>Dr Amitabh Dutta</b> Gastroenterology</p>
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## Contents and Venue of the Foundation Primary Trauma Care Course



The subjects which were presented during the founding PTC course are outlined in the program. Course content was similar to what is advised in the PTC manual. The instructors used different styles of lecturing like PowerPoint, stage shows and group discussion. The venue in Apollo hospital was a comfortable, air-conditioned lecture hall, with excellent audiovisual aids like a digital projector, an overhead projector (not used) and a cordless microphone. The hall was large enough to accommodate all the participants.

The chairs were centrally placed facing the screen. There were 5 tables with chairs around them placed in the auditorium. One was used for secretarial work while other 4 were used as skill stations and scenario practice tables.

Tea and food were served outside in a small attached hall. There were no ceremonies or rituals and time was fully utilized for learning with strict attendance & punctuality.



### Course Program

Day 2		
TIME	TOPIC	INSTRUCTOR
7 to 9:30 am	Fractures and Dislocations	Dr. A. Balaji, Dr. Vijay Kumar
9:30 to 9:45 am	Abdominal injuries	Dr. Sangeet Kumar
TEA BREAK		
SKILLS STATIONS - II 30 mins each		
10 to 12 pm	Amputations & Vascular Access	Dr. V. Kharbanda, Dr. Nikhar Gupta
	Fractures	Dr. V. Kharbanda, Dr. Rajendran, Dr. Arun Prasad
	Penetrating	Dr. A. Balaji, Dr. Vijay Kumar
	Other	Dr. Vikram Mahajan, Dr. Balraj Gupta
12:30 to 1 pm	Dr. Trauma Scenario III and 7 Tables in div 1	Dr. Kuldeep Singh
LUNCH		
SKILLS STATIONS - III 15 mins each		
1:30 to 2:30 pm	Airway Practice: Basic	Dr. V. Kharbanda
	Airway Practice: Advanced	Dr. Arun Prasad
	MCQ	Dr. Vikram Mahajan
	Scenario Practice	Dr. Kuldeep Singh, Dr. Vijay Kumar
INSTRUCTORS ONLY		
TIME	TOPIC	FACULTY
2:30 - 2:45 pm	PTC Principles & How to teach them	Dr. Rajendra Prasad
2:45 - 2:55 pm	How to give a PTC Presentation	Dr. Arun Prasad
2 - 2:15 pm	Teaching & Skill	Dr. V. Kharbanda
2:15 - 2:30 pm	How to make Scenario interesting; participatory and informative	Dr. Kuldeep Singh
	Make a presentation	Dr. Arun Prasad
3:30 to 4:30 pm	Teach a skill (airway)	Dr. Vijay Kumar
	Teach a skill (c-collar & leg roll)	Dr. Rajendra Prasad
	Do a scenario	Dr. Kuldeep Singh
3:30 - 4:30	MCQ results and Feedback	Dr. Arun Prasad
4:30 pm on	CERTIFICATE DISTRIBUTION & GROUP PHOTOGRAPH	



Day 1		
TIME	TOPIC	FACULTY
8:30 am	Registration & Pre Course MCQ's	Mr. Rajni, Mr. Praval
9 am	PTC Introduction	Dr. Rajendra Prasad
9:15 am	Course Overview	Dr. Arun Prasad
9:30 am	ABCDEF (Primary & Sec Survey)	Dr. Arun Prasad
10:00 am	and Trauma Scenario I and	All Faculty
TEA BREAK		
SKILLS STATIONS - I		
11:00 to 12:30 p.m	Airway Management - ( 60 minutes )	Dr. Vikram Mahajan
		Dr. Vijay Kumar
	C-Spine control, transport and Log Roll ( 30 minutes )	Dr. Shyam Sunder
		Dr. Priya
	Chest Drain ( 30 minutes )	Dr. Arun Prasad
		Dr. Viji Rajkumari
	Airway and Breathing	Dr. Vijay Kumar
12:30	Circulation & Shock	Dr. Vikram Mahajan
LUNCH BREAK		
1 to 1:30 p.m.		
1:30 to 1:50 p.m.	Chest injuries	Dr. Arun Prasad
1:50 to 2:10 pm	Limb injuries	Dr. V. Kharbanda
2:10 to 2:40 p.m.	and Trauma Scenario II and 3 Tables - 20 mins each with 2 faculty at each table	Dr. Kuldeep Singh & team
2:40 pm	Head and Spinal Injuries	Dr. Rajendra Prasad
3 pm	What did we learn today ?	Dr. Kuldeep Singh
4:15 pm	TEA BREAK	

33% time was spent on lectures ( violet ) and 67% on practical sessions ( green )



After an introductory session, we started with a Scenario enacted with mistakes. Discussion on this led to the Lecture on



Primary and Secondary survey. This was again followed by same scenarios repeated 3 times at various speeds and cuts.



Other lectures included airways, circulation, burns etc. Head, spine, limb, chest, abdomen trauma were covered. There was an interactive lecture on Triage management during disasters which was new at this course.



Skill stations included basic and advanced airway management. Chest tube insertion in goat's chest, helmet removal, collar insertion, transport, fracture stabilization, oxygen delivery, CPR, paediatric skills, venous access and analgesia.

Eight basic scenarios, burns, paediatric, trauma during pregnancy scenarios were done with participants role playing. Mock semi life practice scenario with all hardware was done on stage with audience participation.



Trainers' course included introduction to various aspects and also practice of organizing scenarios, teaching skills and giving feedback.

### **Notes on delivery of the Course and lessons learnt**

We showed excellent time management. The delegates and faculty were punctual and stuck to time. The level of enthusiasm was very high on both sides.



Every one enjoyed the course thoroughly and all good things come to an end feeling was there at the time of certificate presentation.



As the course director I felt that despite the good feedback and applause there was still scope for improvement.

**Teaching materials provided**

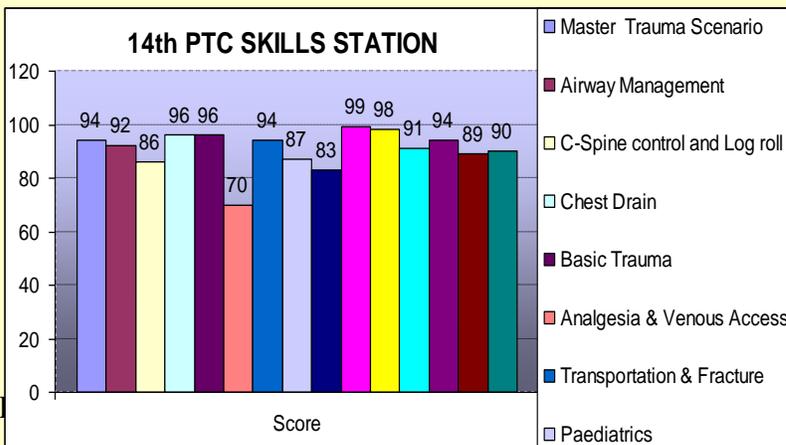
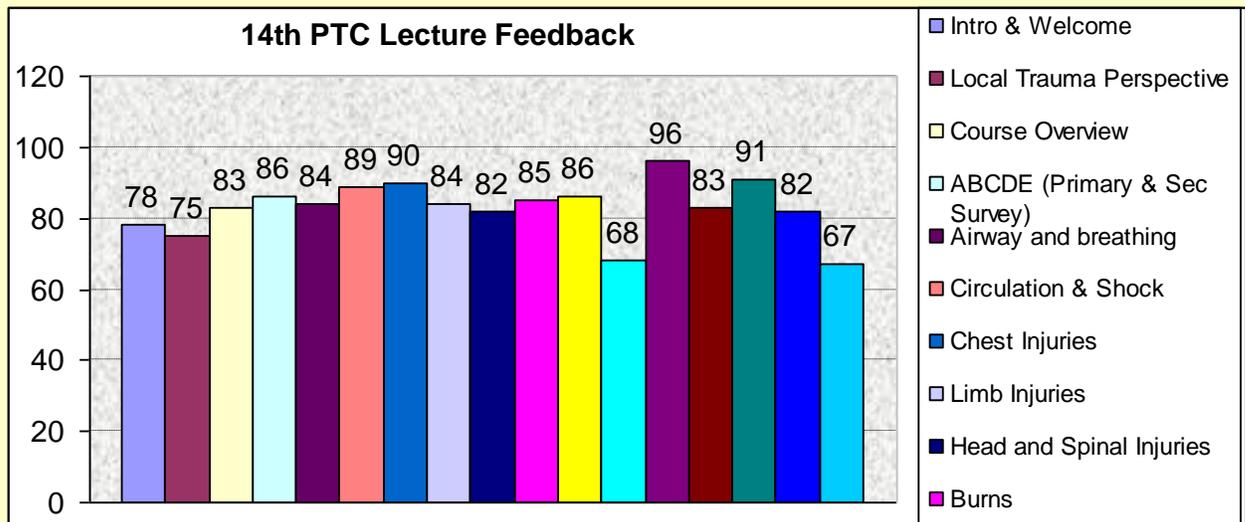
Each member of the Foundation Course was presented with a copy of PTC Provider manual. Future faculty members were given a copy of the Trainers manual

**Evaluation of the success and relevance of the course**



Remarks made by the participants on the evaluation forms and during the evaluation session can be found below. In general the course was much appreciated, however, as with most PTC courses, the participants would value more time for skills stations and practicing scenarios.

**CANDIDATES FEEDBACK OF PTC COURSE**



96-110	WOW
84-95	EXCELLENT
72-83	GOOD
48-71	SATISFACTORY
24-47	COULD BE BETTER

## RELATIVE STATUS OF LECTURES, SKILLS, SCENARIOS

Every one ( all 24 !!) said scenarios were the best part of the course and wanted more and more of it to the extent that one person suggested to have this done at the Casualty in real life situation.

Skill stations were interesting areas which stimulated participation and interaction.

Due to the relative popularity value of the above two, we have been striving hard to make the lectures interesting and interactive. It is understandable that they are not the most exciting part of the course.

Trainers' session had practice of how to conduct a course.



## CHANGES SUGGESTED ?

1. We need to make the lectures more interesting, interactive and modify them critically
2. The lectures and practicals should merge into each other smoothly
3. Instructors to talk slowly as delegates do not belong to their specialty
4. More hardware on tables
5. More time on the airways stations for individual practices.
6. Lectures to include pictures and videos of how not to do and how to do.
7. Video demo along with the live demo for better retention.
8. Trainers' course needs modifications to make it of the same standard as the rest.
9. Avoid change of computers, lap tops and pen drives.
10. Mobile phones to be switched off / muted during the course.
11. All faculty should be present at scenarios and at the feedback session.



## Multiple Choice Questions

New MCQs have been made in the true false variety with negative marking. Pre course and post course MCQ were matching to reduce any difficulty skew. All questions were dealt with in the course.



## Results of MCQ tests

SCORE ON DAY ONE ( PRE COURSE) -- 15 / 35 ( 34%)

SCORE ON DAY TWO ( POST COURSE ) – 25 / 35 ( 68% !!) **well done PTC faculty**

## Course Delegates



## Acknowledgements

I would like to thank the faculty members from Apollo Hospital, Fortis Hospital, and US Embassy for taking time out of their busy schedule for the mission.

The next course ( 15<sup>th</sup> PTC would be held at New Delhi from 16<sup>th</sup> to 17<sup>th</sup> April 2009. Please let us know if any of your colleagues would like to attend it so that we could reserve a place for them before putting up formal notices

*Dr Arun Prasad, MS,FRCS  
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Senior Consultant Surgeon  
General & Minimal Access Surgery  
Apollo Hospital, New Delhi, India*