



17th Primary Trauma Care Course, Apollo Hospital, Delhi, India

April 16-17th, 2009

Executive Summary



- A 15 member team of PTC instructors from Delhi
- 22 participants, consisting of senior, junior doctors and senior nursing staff from Delhi, Bangalore, Hyderabad 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.

Ms Chitra and Ms Payal 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

| | | |
|--|--|--|
| Dr. Rajendra Prasad Neurosurgery & Spine Surgery | Dr Lawrence Gernon US Embassy | Dr Amitabh Dutta Gastroenterology |
| Dr Tarun Sahni Internal Medicine | Dr. Shyam Sunder Neurosurgery | Dr Jasbir Singh Anesthesiology |
| Dr. Arun Prasad General & Minimal Access Surgery | Dr Purnima Dhar Anesthesiology | Dr. Chitra Chatterjee Anesthesiology |
| Dr Kuldeep Singh Plastic Surgery | Dr Yash Jhaveri Critical Care, Fortis Hospital | Dr Meera Kharbanda Anesthesiology |
| Dr. Yatindra Kharbanda Orthopaedics | Dr. Anita S Bakshi Pediatric Intensive Care | Dr. Ajay Gautam Critical Care |
| Dr. Priya Singh Emergency Medicine | Dr Bharat Bhushan Anesthesiology | Dr Amir Jameel Medicine |

Venue and Contents of the Primary Trauma Care Course

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.

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.

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 |
| 9 to 9:30 a.m. | Paediatric and Obstetrics | Dr. A. Balaji / Dr. Vijay Kumar |
| 9:30 to 9:45 a.m. | Abdominal injuries | Dr. Anil K. Jindal |
| 9:45 a.m. | TEA BREAK | |
| SKILLS STATIONS - II 30 mins each | | |
| 10 to 12 pm | Amputations & Limb Access | Dr. V. Kharbada / Dr. Nikhara Gupta / Dr. V. Kharbada / Dr. Rajendra Prasad / Dr. A. Balaji / Dr. Vijay Kumar |
| 11 pm | CPR | Dr. Vikram Mahajan / Dr. Rajesh Gatra |
| 12:30 to 1 p.m. | ## Trauma Scenario III ## | Dr. Kuldeep Singh |
| 1 to 1:30 p.m. | LUNCH | |
| 1:30 to 2:30 pm | SKILLS STATIONS - III 18 mins each | |
| | Airway Practice: Basic | Dr. V. Kharbada |
| | Airway Practice: Advanced | Dr. Rajendra Prasad |
| | MCQ's | Dr. Anil K. Jindal |
| | Scenario Practice | Dr. Kuldeep Singh / Dr. Vijay Kumar |
| INSTRUCTORS ONLY | | |
| TIME | TOPIC | FACULTY |
| 2:30 - 2:45 pm | PTC Principles & How adults learn | Dr. Rajendra Prasad |
| 2:45 - 3:00 pm | How to give PTC Presentations | Dr. Arun Prasad |
| 3 - 3:15 pm | Teaching a skill | Dr. V. Kharbada |
| 3:15 - 3:30 pm | How to make Scenario interesting, participatory and informative | Dr. Kuldeep Singh |
| 3:30 - 3:45 pm | Make presentations | Dr. Arun Prasad |
| 3:45 - 4:30 pm | Teach a skill (collar & log roll) | Dr. Vijay Kumar |
| 4:30 - 4:45 pm | Do a scenario | Dr. Rajendra Prasad |
| 4:45 - 4:55 pm | MCQ's results and Feedback | Dr. Kuldeep Singh |
| 4:55 pm - 5:00 pm | CERTIFICATE DISTRIBUTION & GROUP PHOTOGRAPH | |

| Day 1 | | |
|---------------------|--|--|
| TIME | TOPIC | FACULTY |
| 8:30 am | Registration & Pre Course MCQ's | Mr. Rajul / Ms. Payal |
| 9 am | PTC Introduction | Dr. Rajendra Prasad |
| 9:15 am | Course Overview | Dr. Arun Prasad |
| 9:30 a.m. | ABCDE (Primary & Sec Survey) | Dr. Arun Prasad |
| 10:00 a.m. | ## Trauma Scenario I ## | 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 |
| 12:30 | Airway and Breathing | Dr. Vijay Kumar |
| 12:45 | Circulation & shock | Dr. Vikram Mahajan |
| LUNCH BREAK | | |
| 1 to 1:30 p.m. | ## Trauma Scenario II ## | Dr. Arun Prasad |
| 1:30 to 1:50 p.m. | Limb injuries | Dr. V. Kharbada |
| 1:50 to 2:10 pm | ## Trauma Scenario III ## | Dr. Kuldeep Singh & team |
| 2:10 to 3:40 p.m. | ## Trauma Scenario II ## | 3 Tables - 20 mins each with 2 faculty at each table |
| 3:40 pm | Head and Spinal Injuries | Dr. Rajendra Prasad |
| 4 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 followed by same scenarios repeated 3 times at various speeds & cuts.

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.



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



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

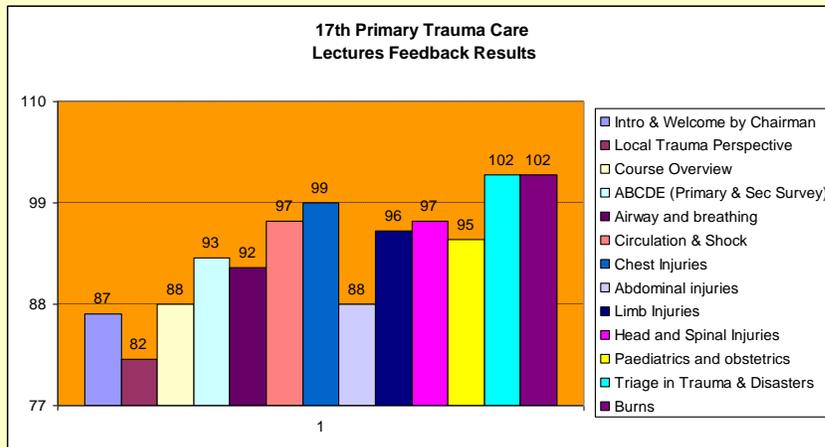
Each member of the Foundation Course was presented with a copy of PTC Provider manual. Future faculty members were given a copy of the Trainers manual

Evaluation of the success and relevance of the course

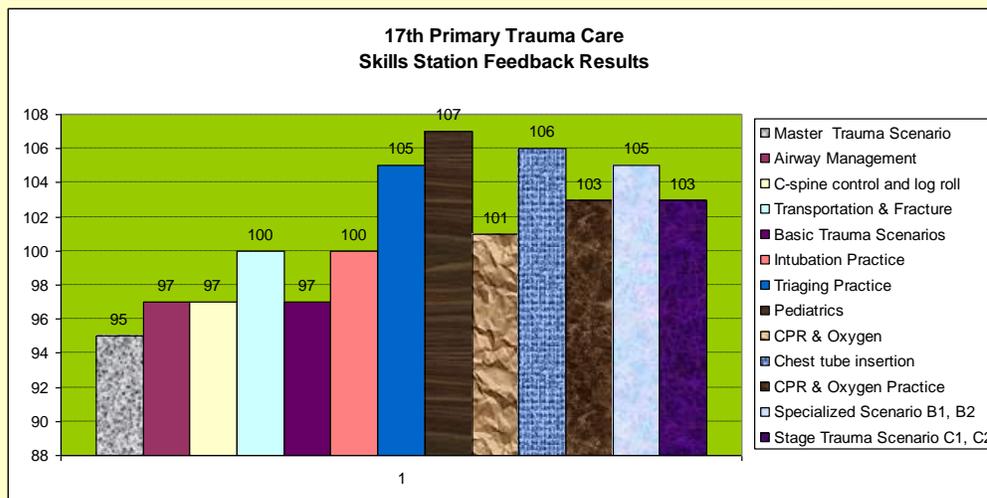


Remarks made by the participants on the evaluation forms and during the evaluation session can be found below. In general the course was much appreciated, however, as with most PTC courses, the participants would value more time for skills stations and practicing scenarios.

CANDIDATES FEEDBACK OF PTC COURSE



| | |
|-------|-----------------|
| >99 | WOW |
| 88-98 | EXCELLENT |
| 77-87 | GOOD |
| 66-76 | SATISFACTORY |
| <66 | COULD BE BETTER |



RELATIVE STATUS OF LECTURES, SKILLS, SCENARIOS



Every one (all 22 !!) 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. Instructors to talk slowly as delegates do not belong to their specialty
2. More hands on
3. More Scenario
4. Tour of Casualty
5. CPR details in manual outdated
6. Name Badges for all
7. Lecture of firearms injury
8. MCQ correct answers for those who want
9. The lectures and practicals should merge into each other smoothly
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) -- 13 / 35

SCORE ON DAY TWO (POST COURSE) – 23 / 35 (84% increase !!) **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.



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