Training for Trauma Team Members
- What Works Best?

Mike Hunter
Surgeon and Intensivist
Dunedin Hospital
No one can whistle a symphony. It takes an orchestra to play it.
The Team

• A group of two or more individuals who must interact cooperatively and adaptively in pursuit of shared value objectives. Further, team members have clearly defined differentiated roles and responsibilities, hold task-relevant knowledge and are interdependent.
Task-relevant knowledge

- Is it agreed?
- How will team members acquire it?
  - Doctors   EMST / specialty training
  - Nurses    ? course / inservice training
- How do we keep it updated and consistent?
- Place of guidelines
Role assignment

• Common understanding within and between departments
• Clear designation
• Place of guidelines
• Adjuncts
  – Hats
  – Gowns/bibs
Who will be leader?

- Life is like a dogsled team. If you ain't the lead dog, the scenery never changes.
  - Lewis Grizzard
What are shared-value objectives?

- Identify life-threatening injuries promptly
- Intervene safely and rapidly
- Identify all likely injuries
- Prioritise
- Engage all staff needed for -
  - Investigation
  - Definitive care
- Commence preventive therapies
- Keep an accurate record
The pressure is on!

- Time
- Lethality
- Multiplicity
- Logistics
The experience in Norway

Keeping the spirit high: why trauma team training is (sometimes) implemented

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What works?

Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine

Original research

Mannequin or standardized patient: participants' assessment of two training modalities in trauma team simulation
Torben Wisborg*¹, Guttorm Brattebø¹.², Åse Brinchmann-Hansen¹.³ and Kari Schrøder Hansen¹.⁴

Conclusion: No difference when educational goal is training in communication, co-operation and leadership
Virtual environments

R&D R 53/2002

Ragnhild Halvorsrud

Trauma team training in a virtual emergency room. Final report from the MATADOR project
Nordic project : remote participants

Figure 2 Using the distributed MATADOR simulator, individuals can join a trauma team and collaborate to save a virtual patient
Cannula is now inserted.
You have set an infusion.
You have ordered ultrasound of the abdomen.
Figure 5 During the field trial in 2002, each trauma team consisted of two participants from Umeå and two participants and a tutor from Oslo.
Trauma Team Training: Simulation-based training in traumacare with emphasis on the importance of teamwork and crisis resource management (CRM) principles

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- One day simulation-based training
- 2 scenarios
- 16 multidisciplinary trauma teams
- Self-assessment feedback
- Improvement in leadership and communication
TTT - Canadian aid programme

- Designed for Africa
- Taught in Uganda since 1998
- Deemed highly useful
- No measures of actual performance
Closer to home - NSW

The New South Wales Institute of Trauma and Injury Management (ITIM) and the Sydney Clinical Skills and Simulation Centre (SCSSC) have been in partnership since 2006. The partnership aims to maximise access to trauma training, with an emphasis on teamwork, for frontline clinical staff who manage trauma across NSW.

The Trauma Team Training (TTT) Course is a one-day, multiprofessional, multidisciplinary simulation-based course that addresses teamwork skills and clinical practice relevant to trauma management. The course has been conducted for 250 participants to date.

Evaluation -???
What works best?

- Arthur Lydiard
  - Training needs to resemble the end activity as closely as possible
  - Train don’t strain!
What works best?

• We don’t know
• Simulation seems the most plausible
• Needs to be fun
• Resource and trainer-intensive
• Ideally we should measure performance
The nice thing about teamwork is that you always have others on your side.
I started out with nothing and I still have most of it.

- Source Unknown