



## Teamwork in the Emergency Room

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## About Stefan

- Anesthetist
- Specialist, Emergency Medicine
- Co-founder 2 simulation centers
- Vice President R&D
- Manager, International Medical Education
- University Mainz → AQAI → METI



## About Jochen

- Mathematician
- Co-founder 2 simulation centers
- Manager, International Customer Support
- Manager of Operations
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## Overview

- Relevance and context
- Team aspect of primary survey
- Two courses:
  - European Trauma Course
  - HPSN ER Teamtraining workshop
- A practical example

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Trauma Film Uni Hamburg Jan 2009

**ER COURSE UKE  
JAN 2009**

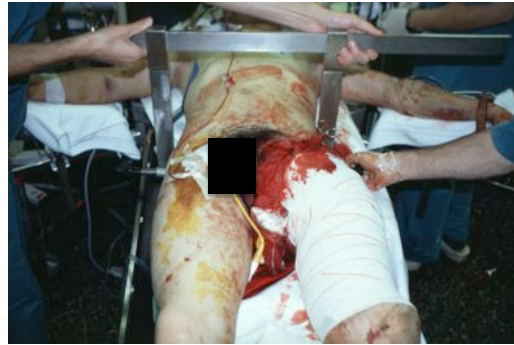
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Relevance

**Trauma is the  
leading cause of death  
below the age of 40 in Europe**



# Relevance



Polytrauma is a medical term describing the condition of a person who has been subjected to multiple traumatic injuries (ISS>16).

High quality early trauma care decreases mortality by 30%



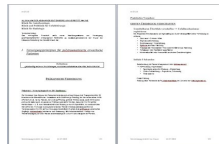
Secondary Surgery



ICU



Preclinical



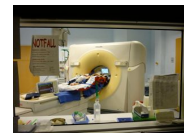
Polytrauma Protocol



Primary Surgery



Resuscitation



Diagnostic

**Primary Survey**



## Team effectiveness

- Highly complex task
- High stress situation with limited time
- Complex multiple injury pattern
- Variable number of team members
- Variable Team members



## Team effectiveness?





## Team effectiveness

### Function:

- Identify and treat life threatening injuries
- Arrange appropriate treatment and investigations
- Arrange and transfer to definitive care

### Organization:

- Task allocation
- Simultaneous activity

### Structure:

- Team size
- Leadership skills/team member skills



**TWO COURSES WITH ETWC**

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## European Trauma Course

1st ESTES European Trauma Course

HPSN Europe 2008  
10.-12. Nov. 2008 in Mainz, Germany

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## European Trauma Course

- 2 ½ day systematic, training program to the early care of the trauma patient
- Reflects European practice
- Interdisciplinary
- Scenario-based
- Small group (4 candidates + 2 instructors)
- Developed by the European Trauma Working Group (ERC, ESTES, EuSEM, ESA, ITC)



## European Trauma Course

- Day 1:
- Introduction
- Primary and Secondary Survey
- Scenario-based workshops
  - Airway
  - Shock
  - Thoracic

- Day 2:
- CCT diagnostic
- Scenario-based workshops
  - Head
  - Spine
  - Abdominal
  - Extremity
  - Pediatric
  - Women

### Day 3:

- Complex scenarios
- Assessment



## HPSN E 2009 ER Teamtraining Workshop

- Introduction to Primary Survey
- Demonstration
- Scenario based teaching
  - METI Man
  - Resuscitation Room – Primary Survey – CT
  - Decision making OR/ICU



## HPSN Trauma Workshop

### Team

- Team leader
- Airway doctor
- Breathing doctor
- Circulation doctor

### Pre-hospital Information:

25 y/o male involved in high speed MVC as a restrained driver.

Awake, alert. Entrapped in vehicle. 45 min rescue time. Combitube for rescue. Hemodynamically stable.

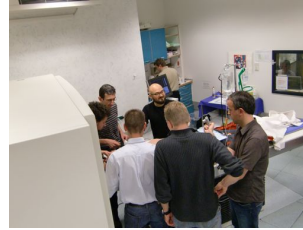


## HPSN Trauma Workshop



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## HPSN Trauma Workshop



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40 year car accident,  
BP 80/40, HR 100, RR 30,  
Pale, eyes open,  
moves arm to painful stimuli  
mumbling

## **A PRACTICAL CASE**

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## **DEBRIEFING**

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### Summary

- Trauma courses can be taught with a simulator
- Most important aspect: team interaction
- Mobile simulator needed