Simulation training in (prehospital) emergency medicine

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What we are planning to do today...
Why simulation training could make sense in (prehospital) emergency medicine
Take a closer look on errors in medicine...
Among the 10 most common causes of deaths

“to Err is Human”

Building a Safer Health System, report issued in November 1999 by the U.S.
Deaths due to errors in medicine

- Up to 80,000 deaths/year in Germany
- Up to 6,000 deaths/year in Austria
What do you think are reasons for errors (in medicine)?

Know How

70%
One of the most common: One out of 5 medication applications result in an error

(Barker Flynn Pepper; 2002)
• Even if I am tired, I am capable of handling emergency situations. Answered with yes...
  • Pilots ... 26%
  • Physicians..... 70%

• I don't do any mistakes.
  • 30% of physicians and nurses on ICUs answered with yes...
Incidents / Errors are common and everywhere – even if we don’t see them

„If something can go wrong, one day, it will“
Are (prehospital) emergency medicine teams better than the others?

NO!!!
ICU, Emergency Room, EMS, operating room,...

- Complex environments
- Complex patients
- Complex therapies
- Stress
- Fatigue
- Emotions

Result in a higher rate of errors

„intensive care unit“
Why simulating?  
Why playing with dolls?

Problem?
Once done right...

• High acceptance rate
• Effective learning method
• Combining with CIRS
• Process / Risk management
What makes learning with simulation so efficient?

Features and uses of high-fidelity medical simulations that lead to effective learning” a BEME systematic review (Issenberg et al, 2005, Medical Teacher)

- Receiving feedback
- Repeating keypoints
- Different levels of expertise
- Combining different learning strategies
- On demand and broad clinical conditions
- Keep 90% of what you do hands on
- Safe learning environment
- Individual learning
- Learning goals
So, how does simulation training work now...
How can we train complex emergency situations?

HOW CAN YOU TRAIN THOSE 70%??
Tool called:

"CRM"

Crisis resource management
Teamwork
Distribution of workload
Situational awareness
OTHERS LIKE:
Know your work-place
OTHERS LIKE:
„Have doubts and double check“
OTHERS LIKE: Teamleading
THE END IS NEAR.
Simulation Training
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To improve is human
To grow is human
To learn is human
( Dr. Tony Kern )
Thanks for your attention!

Questions?