

# The Use of Clinical Simulation in the Recognition And Management of the Seriously Ill

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# What and Where is MCSC ?



- Fred & Anne Green
- Montagu Hospital, Mexborough
- 15 Centres nationally

# Revenue Costs

- £413,410 Annually
  - Costs met by Yorkshire and the Humber Strategic Health Authority



# What is Simulation in 2009 ?

High and medium  
fidelity human  
patient simulators-  
whole body  
manikins with  
driving mechanical  
parts and computer  
software



Doncaster and Bassetlaw Hospitals **NHS**



# What is RAMSI?

- Recognition And Management of the Seriously Ill
- F1 doctors, junior staff nurses, junior physiotherapists
- Those caring for the ward patients who have the potential to become very sick
- 'Acutely ill patients in hospital'- NICE 2007 and 'Competencies for the care of the acutely ill Patient in Hospital'- DOH 2009

# RAMSI

- Written and designed by *real* doctors, nurses and physiotherapists in practice
- Hand book
- A systematic approach
- Non- technical skills

# Patient Assessment

- A- airway
- B- breathing
- C- circulation
- D- disability
- E- exposure



# Simulation can provide:-

- A 'safe' learning environment
- An authentic environment
- Role awareness
- Exposure to new ideas
- Training with MDT
- Non-technical skills

# Improving patient outcomes

- Technical Skills
- Non- Technical Skills

- ~70-80% medical emergencies are due to a breakdown in non-technical skills

*Leonard et al 2004, Messmer 2008*

- Transferring CRM principles from aviation to healthcare can potentially lead to 53% reduction in adverse patient outcomes

*Messmer 2008*

# Non-technical skills

- Anticipation/  
Organisation
- Communication
- Teamwork
- Situation Awareness
- Human error/fixation
- Declaring an emergency

# A typical RAMSI course day...

- Introduction
- Tour of MCSC, manikin and equipment
- Oral scenario
- 4 scenarios (based on *real* patients, **all video recorded**)
- Facilitated debrief after each scenario

# The purpose of facilitation

- To assist delegates to positively critique their actions
- Encourage the group to learn from mistakes in a non-threatening environment
- To meet the educational aims

# Out and About with RAMSI



# References

- Messmer PR (2008) Enhancing Nurse-Physician Collaboration using Paediatric Simulation *The Journal of Continuing Education in Nursing Vol 39 No.7*
- Paige JT, Chauvin SW (2008) Transforming the Operating Room through Simulation Training *Seminars in Colon and Rectal Surgery* **19**:2,98-107
- Leonard M, Graham S, Bonacum D (2004) The Human Factor: the critical importance of effective teamwork and communication in providing safe care *Qual. Saf. Health Care* **13**:i85-i90

# Any Questions

