Simple or sophisticated:
How should paediatric simulation training be deployed?

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No personal financial benefits
Paediatric Emergency Treatment and Advanced Life Support (PETALS)

GESCHN Mobile Paediatric Emergency Training

GESCHN Paediatric Trauma Team Training

GESCHN Paediatric Team Training

Sydney Clinical Skills and Simulation Centre
Variables in programs

- Experience of target - Novice to expert
- Educational methods
  - E learning
  - Practical workshops
  - Simple scenarios
  - Intensive full scale immersive scenarios and debriefing
Variables in programs

- Modalities
  - Task trainers
  - Simple manikins
  - Sophisticated robotic manikins
  - Actors
Variables in programs

- Content
  - Didactic clinical topics
  - Non-technical skills

- Scale of program
  - Small bespoke courses
  - Statewide programs
BEME Spotlight No.4  
High-fidelity medical simulations and most effective learning  
Tim Dornan, Sonia Littlewood, Stephen A Margolis, Albert Scherprier, John Spencer and Valmae Ypinazar


Review website: http://www.bemecollaboration.org/beme/pages/reviews/issenberg.html

Keywords: Medical simulation, high-fidelity, learning
Most effective learning

- Feedback during the learning experience
- Repetitive practice
- Integrate simulators into overall curriculum
- Adapt simulator to complement multiple learning strategies
- Variety of clinical conditions
- Controlled environment – no adverse consequences
- Individualised learning in the simulator
- Clearly defined outcomes for learners to achieve
- Simulator is a valid learning tool
Most effective learning

- Validity – mirror real life

Vs

- Reliability – reproducibility, uniformity
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Course evaluations

- Quantitative
  - How well course run? 4 +
  - I enjoyed this session 4 +
  - Particular content 3 +
Course evaluations

- Qualitative
  - Value scenario learning
  - Authentic
  - Reflect what do at work
  - Non judgmental instructors
Improving reliability

- Instructors
  - Stable instructor core
- Refine scenarios
- Reduce number of scenarios
- Longer courses
The Future

- Highly reproducible, mass market, in situ programs eg RESUS4KIDS
- Specialised, highly valid, more sophisticated programs eg PEMCM

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