Healthcare simulation and lack of modeling

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Disclaimer

1. No COI to report
2. Do not represent Society of Simulation in Healthcare or its Research Committee
Quick Background

- Director of Simulation of UCLA Olive View Emergency Medicine
- NIH K30/UCLA Master of Science in Clinical Research
- Immediate Past Chairman of Research Committee of Society of Simulation in Healthcare
SSIH Research Endeavors

- Reconstructed the entire infrastructure of research abstract submissions
- Delineated and defined different types of research work
- Created reviewing standards and admission standards
- Reviewed all abstracts submitted to IMSH for 4 years.
- Created novice research grant
Results:

• After reviewing literally thousands of research works and numerous grants submitted to IMSH,
• able to look at the playing field as a whole
• gained different insights and more questions than answers
Insights

• At IMSH, technically the largest place of healthcare simulation meeting place, models researching in healthcare system is almost non-existent.
• Development of cognitive model of healthcare personnel is also non-existent.
• It’s still very much at the juvenile stage of showing “whether or how much my simulation curriculum works” by pre and post test.
Research directions suggested by the gurus

• Instead of showing that it works, need to investigate that why and how it works.
• Instead of using it for educational purpose, use it for investigative method
• But what have been reported are still very much stuck at the previously mentioned juvenile stage
• even the way of reporting sim-based research endeavor is still not standardized, and is currently under development
Overall

- Educational Simulation
- Clinical Simulation
- Operational Simulation
- Managerial Simulation
What healthcare needs in terms of simulation

• Not just to think outside of the box, we need a lot of different boxes.
• Need to have multi-paradigm approach to the healthcare system as it is complex, multi layered and multi faceted.
• Conceptual and theoretical frameworks are sorely needed in terms of M&S approach in healthcare
Q&A

• From the crowd, potential solutions?