

# Healthcare simulation and lack of modeling

**Joshua Hui, MD, MSCR, FACEP**

**Director of Simulation  
UCLA-Olive View Emergency Medicine**

# 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

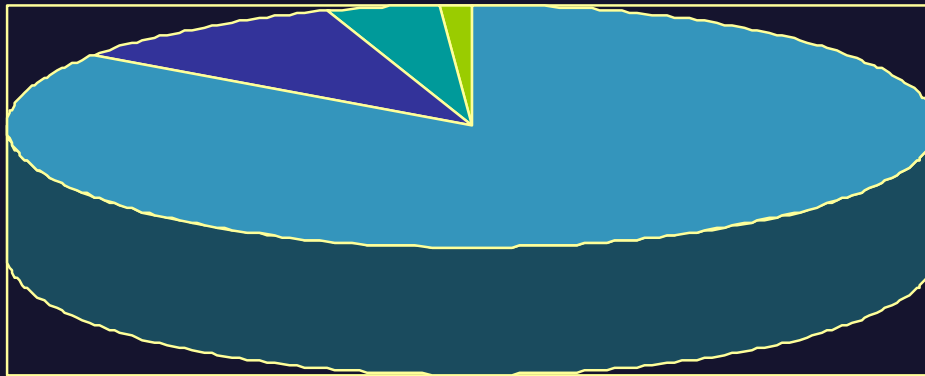
# Insights

- 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

■ 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?