SSH Virtual Scholars Program Objectives and Timeline:

Program Directors:

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Objectives of Program: By the end of the scholars program, participants will be able to:

- Formulate a relevant research question
- Compare and contrast quantitative, qualitative, and mixed research methodologies
- Identify several widely used theoretical frameworks germane to simulation research
- Evaluate various types of simulation research (Simulation as an intervention, simulation as a means of measuring outcomes for non-simulation based interventions, etc.)
- Assess study designs
- Describe key methods for standardizing simulation-based interventions for research purposes
- Demonstrate scientific writing as it pertains to simulation
- Implement reporting guidelines for simulation-based research
- Evaluate critical similarities and differences between single center and multicenter simulation based research
- Describe avenues for collaborative simulation-based research
- Promote inter-professional collaboration on simulation research

Application Timeline:

- March 2019: Applications accepted
- April 15th, 2019: Application deadline
- August 2019: Final notification of applicants status
- November 2019: Mentor assignment to successful applicants

Course Timeline:

1. **January 2020 – IMSH:**
   - Introduction to Simulation Research – 2 hours
   - Needs Assessment, Project Presentation, and Discussion – 2 hours
   - Practical Introduction to Scientific Writing – 2 hours
   - Participation in yearly INSPIRE@IMSH Meeting - Optional

2. **February 2020 – Teleconference:** 1 hour project discussion followed by 1 hour webinar:
   - Literature Searches and Reviews

3. **March 2020 – Teleconference:** 1 hour project discussion followed by a 1 hour 1 hour webinar:
   - Types of Simulation Research and Basic Quantitative Study Design

4. **April 2020 – Teleconference:** 1 hour project discussion followed by a 1 hour 1 hour webinar:
   - Assessing Outcomes, Understanding Validity and Reliability
5. **May 2020 – Teleconference**: 1 hour project discussion followed by a 1 hour webinar: Statistical Concept as Applied to Simulation 1: Null Hypothesis Testing, $p$-values, and Effect Size

6. **June 2020 – Teleconference**: 1 hour project discussion followed by a 1 hour webinar: Statistical Concept as Applied to Simulation 2: Power and Sample Size, Equivalence Testing

7. **July 2020 – Teleconference**: 1 hour project discussion followed by a 1 hour webinar: Qualitative Study Design 1: Thematic Analysis

8. **August 2020 – Teleconference**: 1 hour project discussion followed by a 1 hour project discussion followed by a 1 hour webinar: Qualitative Study Design 2 - Grounded Theory

9. **September 2020 – Teleconference**: 1 hour project discussion followed by a 1 hour webinar: Survey and Mixed Methods Approaches

10. **October 2020 – Teleconference**: 1 hour project discussion followed by a 1 hour webinar: How to Write a Budget

11. **November 2020 – Teleconference**: 1 hour project discussion followed by a 1 hour webinar: Conducting Multisite trials

12. **December 2020 – Teleconference**: 1 hour webinar: Writing for Publication Using Existing Guidelines (Adam Cheng) followed by 1 hour of virtual mentored writing practice

13. **January 2021 – IMSH**
   - Final Project Presentation Session – 2 hours