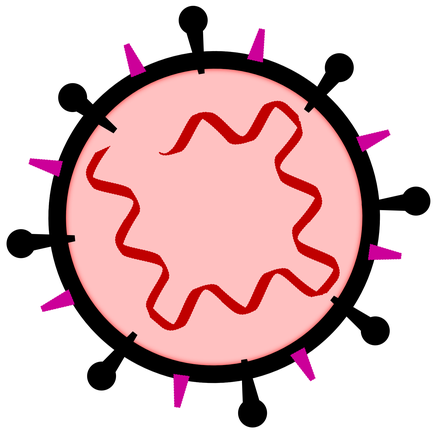
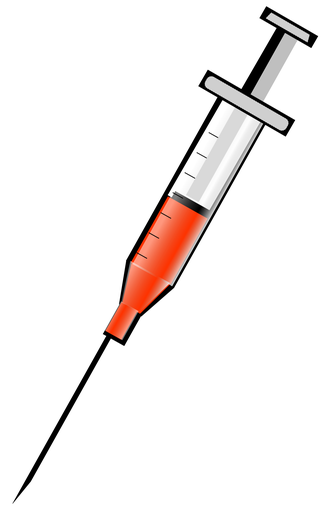
2020 LEAD Capstone Poster Session



SIM-VAC-19:

Simulation Training to Address Vaccine hesitancy for COVID-19



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Abstract

- Phase 3 trials for Vaccines for COVID-19 are close to completion
- Vaccine hesitancy/refusal may be the biggest obstacle to widespread uptake of COVID-19 vaccines and
- Racial disproportionality in vaccine acceptance may further exacerbate inequalities already seen in the COVID-19 pandemic
- This project will equip internal medicine trainees in addressing COVID-19 vaccine hesitancy through
  - Online education
  - Simulated patients in a telemedicine format

Objectives

- Create illness scripts and simulated scenarios for 5 standardized patients
- Create 4 separate online video module trainings on the following themes
  - Development and approval of COVID-19 vaccines
  - Addressing common myths about vaccine
  - Racial disproportionality in vaccine uptake – past, present and future
  - Provider communication strategies for vaccine hesitancy
- Carry out a pilot study amongst internal medicine trainees using online training and simulated patients

Background Information

- Vaccine hesitancy/refusal has led to several outbreaks of vaccine-preventable illnesses
- Racial disproportionality exists with regards to vaccine uptake and remains a serious concern for COVID-19 vaccines
- Provider recommendation of a vaccine is a strong predictor of vaccine uptake
- Training in vaccine hesitancy for adult internal medicine practitioners remains an important and critical area as part of ending the COVID-19 pandemic

Specific Aims

Training internal medicine trainees to

1. Effectively explain the scientific and safety principles underlying vaccine development and convey the importance of vaccination to patients for COVID-19
2. Understand historic racial differences in vaccine uptake and be able to apply counseling in a culturally sensitive manner
3. Incorporate training in best practices for patient communication via telemedicine, a vital skill in the present medical landscape.

Project Plan

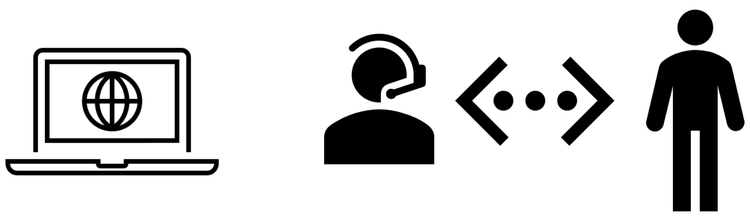
Recruitment
IM Residents
(n=60)

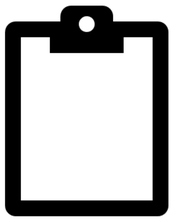
Pre-test survey

Group 1 No intervention

Group 2 Online video training

Group 3 Online video training +
Simulated patient encounters





Post-test survey
1. Acceptability
2. Self-efficacy
3. Knowledge

Application of What You Learned at LEAD

- Collaboration
- Harnessing strengths for innovation
- Organization and planning
  - Grant application submitted to Kenneth Shine Academy Small Grant Award

Proposed Budget

Item	Cost
Registration fee for REDCap	$300
Training time 4 Standardized patients	$672
40 simulated patient encounters	$1176
Video creation online modules	$2000
Post prep, manuscript submission fees	$500
Total	**$4648**

Innovation and Significance

- Novel educational approach leverage technology
  - Telemedicine with simulated patients
- Focuses on a highly urgent and relevant topic
  - COVID-19 vaccine uptake and impact on herd immunity
- Provides training in culturally sensitive medical care
  - Addressing further racial disproportionality during COVID-19 pandemic
- High potential for dissemination
  - Including broader access to the UTSW Medical Community

References

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