

# Applying a Large Language Model (ChatGPT) to Write a Healthcare Simulation

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## Abstract

**Background/Rationale:** Artificial Intelligence (AI) is expanding the scope, quality, and delivery of healthcare; it also has implications for health professionals' education. Along with the benefits and possibilities to improve healthcare and education uncertainty also exists about how to adapt to and use AI, particularly commercially available modalities such as the Large Language Model, ChatGPT. Notwithstanding personal biases or reservations about the technologies, these technologies are readily accessible today, and educators must be able to understand and use them. The rise of simulation and the rise of machines are parallel trajectories, it is advantageous for educators and simulationists to run with the machines to improve simulation-based education, which ultimately improves direct patient care.

**Workshop Activities:** The workshop will begin with a brief background and introduction to Artificial Intelligence, Large Language Models, and ChatGPT to help participants understand the fundamentals of the technology (15 mins), attendees will also be presented with preliminary results from an ongoing longitudinal study investigating the use of ChatGPT to write simulations (5 mins). Next, attendees will be given methods and a template for writing a simulation using ChatGPT and will receive a demonstration of how to use ChatGPT to write healthcare simulations (25 mins). Participants will then use ChatGPT, guided by the methods and template presented along with the support of the workshop presenter, to write their own simulations (30 mins). The session will conclude with participants sharing the scenarios they developed and discussing difficulties or successes and troubleshooting (15 mins).

**Learning Objectives:**

- A) Participants will be able to describe, in general terms, how ChatGPT works.
- B) Participants will understand how to use ChatGPT to write a healthcare simulation
- C) Participants will be able to use ChatGPT to write a healthcare simulation