

u-sim: Leveraging AI for Dynamic Medical Simulation Scenarios

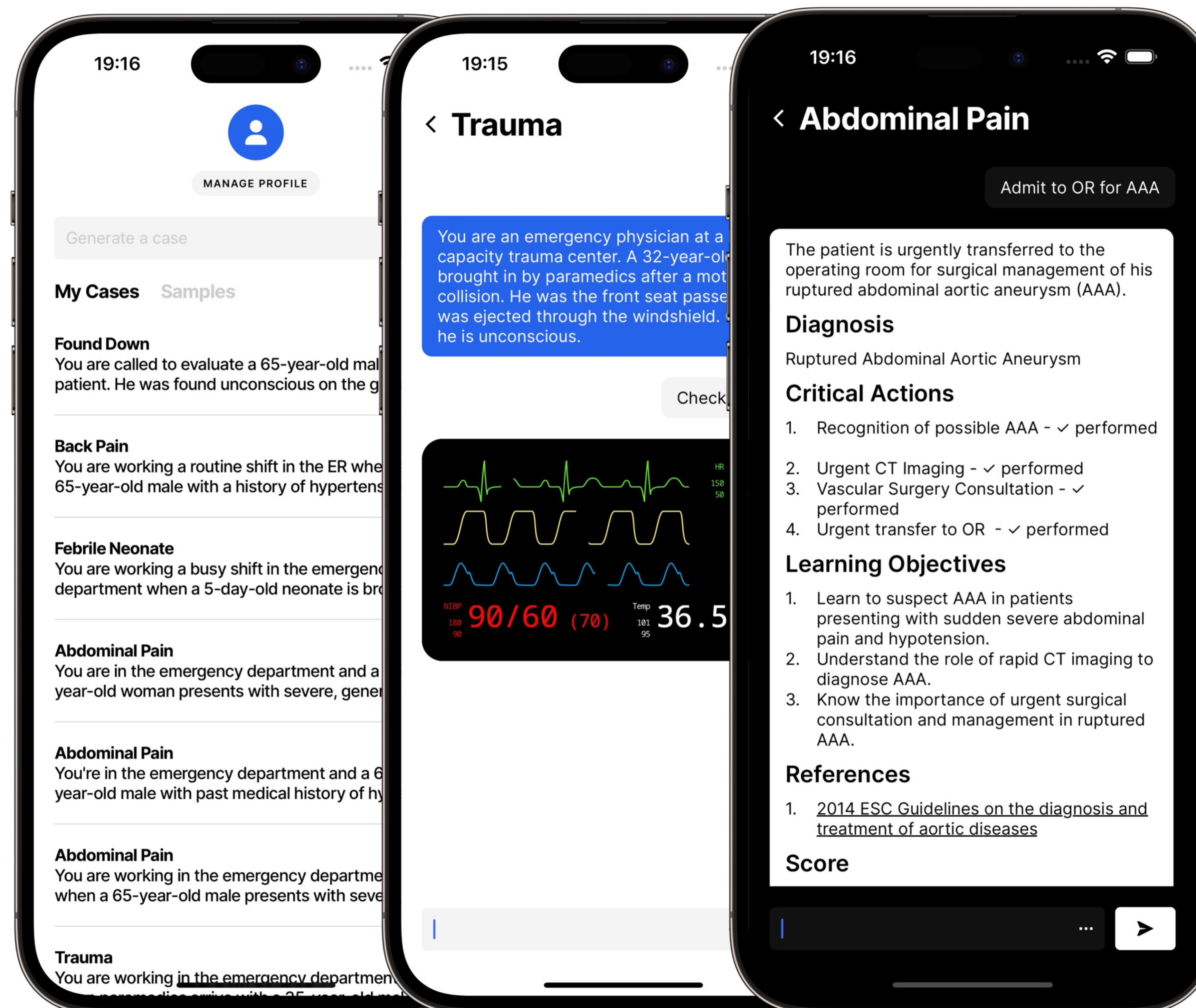
Tom Fadial, MD | Department of Emergency Medicine, West LA VA Medical Center

Introduction

- Medical simulation is critical for healthcare training.
- Traditional scenario creation is time-consuming and resource-intensive.
- u-sim addresses these challenges by leveraging AI to generate dynamic, personalized medical scenarios and expand access to high-quality simulation.

Methods

- Customized GPT-4 model generating comprehensive scenarios.
- Simple and intuitive interface mimicking chat applications.
- AI responds dynamically to learner interventions, adjusting scenario elements in real-time.



Results

- Over 500 registered users and over 6,000 cases created.
- Positive user-feedback referencing realistic and challenging scenarios.

Discussion

- u-sim enhances access to high-quality simulation training.
- Facilitates practice in real-world decision-making.

Future Directions

- Expand model to include alternative settings (OR, inpatient, outpatient) with specialty-specific content.
- Advanced learner metrics/performance