

BACKGROUND

- High-fidelity simulation aids development of technical and non-technical skills¹
- However, it is resource-intensive and costly, restricting delivery²
- Live-streaming could increase access to high-fidelity simulation

METHODS

- We ran an East of England Hub Day involving **virtual high-fidelity simulation** for foundation trainees in the region
- Simulations centred around **SimMan 3G** (Laerdal)
- Three faculty acted as doctor-avatar, nurse-assistant and technician/patient
- The doctor-avatar wore a **GoPro HERO8 Black** streaming via **Zoom**
- Attendees instructed the avatar through a headset
- Evaluations involved pre- and post-session questionnaires of quantitative (**Likert-scale**) and qualitative (**free-text**) questions

RESULTS

- **35/35** attendees completed the **pre-session** questionnaire; **32/35** completed the **post-session** questionnaire
- Respondents who strongly agreed they felt confident in assessing and managing acutely unwell patients increased from 2 (**5.7%**) to 11 (**34.4%**)
- Respondents who strongly agreed or agreed they felt confident in implementing simulation debriefing techniques increased from 15 (**42.9%**) to 29 (**90.6%**)



Figure 1. Doctor-avatar and nurse-assistant with SimMan 3G and control station

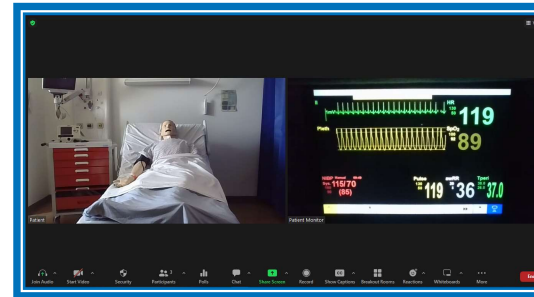


Figure 2. Screenshot of attendee view on Zoom

KEY MESSAGES

- Novel virtual high-fidelity simulation is **effective in improving doctors' confidence in assessment of acutely unwell patients and simulation debriefing techniques**
- Virtual high-fidelity simulation could be **effective in increasing simulation access** and warrants further research to understand effectiveness in comparison to in-person training

REFERENCES

1. Issenberg, S. B., McGaghie, W. C., Petrusa, E. R., Lee Gordon, D. and Scalese, R. J. (2005) 'Features and uses of high-fidelity medical simulations that lead to effective learning: a BEME systematic review', *Medical Teacher*, 27(1), pp. 10-28. doi: <https://doi.org/10.1080/01421590500046924>
2. Motola, I., Devine, L. A., Chung, H. S., Sullivan, J. E. and Issenberg, S. B. (2013) 'Simulation in healthcare education: A best evidence practical guide. AMEE Guide No. 82', *Medical Teacher*, 35(10), pp. e1511-e1530. doi: <https://doi.org/10.3109/0142159X.2013.818632>