Leading and sustaining the implementation of an Artificial Intelligent Education tool for Donning/Doffing PPE.

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Aim:

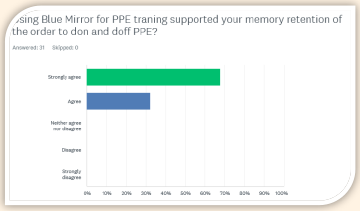
An Acute Trust in Northern England joined with Blue Mirror (BM) to measure the process and compliance of donning/doffing PPE through an interactive Artificial Intelligence app.

Methods:

A Plan-Do-Study-Act (PDSA) cycle was conducted over a 60 day period on a medical and maternity ward and the aim was to educate staff using BM. The sample consisted of 12 midwives, 7 healthcare workers, 6 nurses, 2 doctors, 2 domestics, and 2 physios. The staff was individually assessed by visual and audio instructions that provide immediate feedback with information overlaid on top of the digital mirror of the iPad. Feedback was measured with an anonymous questionnaire at the end of the session.

Results:

31 members of staff reported that they were more likely to understand and remember the correct PPE process after using the app, with 100% memory retention compared with other face to face training methods (65%).



Moreover, 100% of the staff agreed that their learning had improved with BM and they would recommend the app. However, the participants expressed that the app requires improvements, such as slower audio instructions, an upgrade for the recognition of donning gloves and an easier way to save the data into the system. The feedback provided was evaluated with the PDSA cycle and showed improved practice around PPE training.

Conclusion:

BM can prompt and improve PPE training. Enhanced by effective visual learning, the app proves that this is a superior training method as per the PDSA cycle. In conclusion, when organisations reinforce the education of new skills by motor reproduction and the use of mental retention, staff are more likely to feel valued and engaged (Gopee, 2018). This in turn leads to a positive attitude to continue learning to improve patient care.

References.

Gopee, N. (2018) *Supervision & mentoring in healthcare*. Sage Publications.