



Technology enhanced blended learning: refreshing clinical skills education

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Introduction

George Eliot Hospital (GEH) NHS Trust delivers clinical skills teaching for students from Warwick Medical School throughout the curriculum. Traditionally clinical skills teaching has been delivered via face to face sessions which cover theory, practical skills and simulated assessments.

Technology enhanced learning has been recognised as a great way to improve access, flexibility and choice, widen participation, meet expectations and diverse needs and assist teachers to develop innovative delivery methods (HEFEC, 2009). JISC (2008) found that appropriate use of technology leads to improvements in teaching, learning and assessment which in turn improve the satisfaction and achievements of learners.

The clinical skills and resuscitation tutors at GEH wanted to refresh the learning resources that they used and test new modalities for delivering clinical skills sessions. They choose to test a technology enhanced blended learning approach rather than relying purely upon face to face delivery.

This research focused on the acceptability of alternative learning methods for both medical students in junior and senior blocks and the educators delivering the teaching and assessment sessions. The team also wished to explore the feasibility of using a variety of different media including e-learning software such as storyline and video in an effort to make learning more interactive and fun.

Methods

Objective: To demonstrate that technology has the ability to refresh educational delivery within clinical skills teaching.

Aims:

>To develop a technology enhanced blended learning approach for clinical skills teaching

specifically urethral catheterisation.

>To explore the acceptability of this approach through obtaining and analysing student and tutor

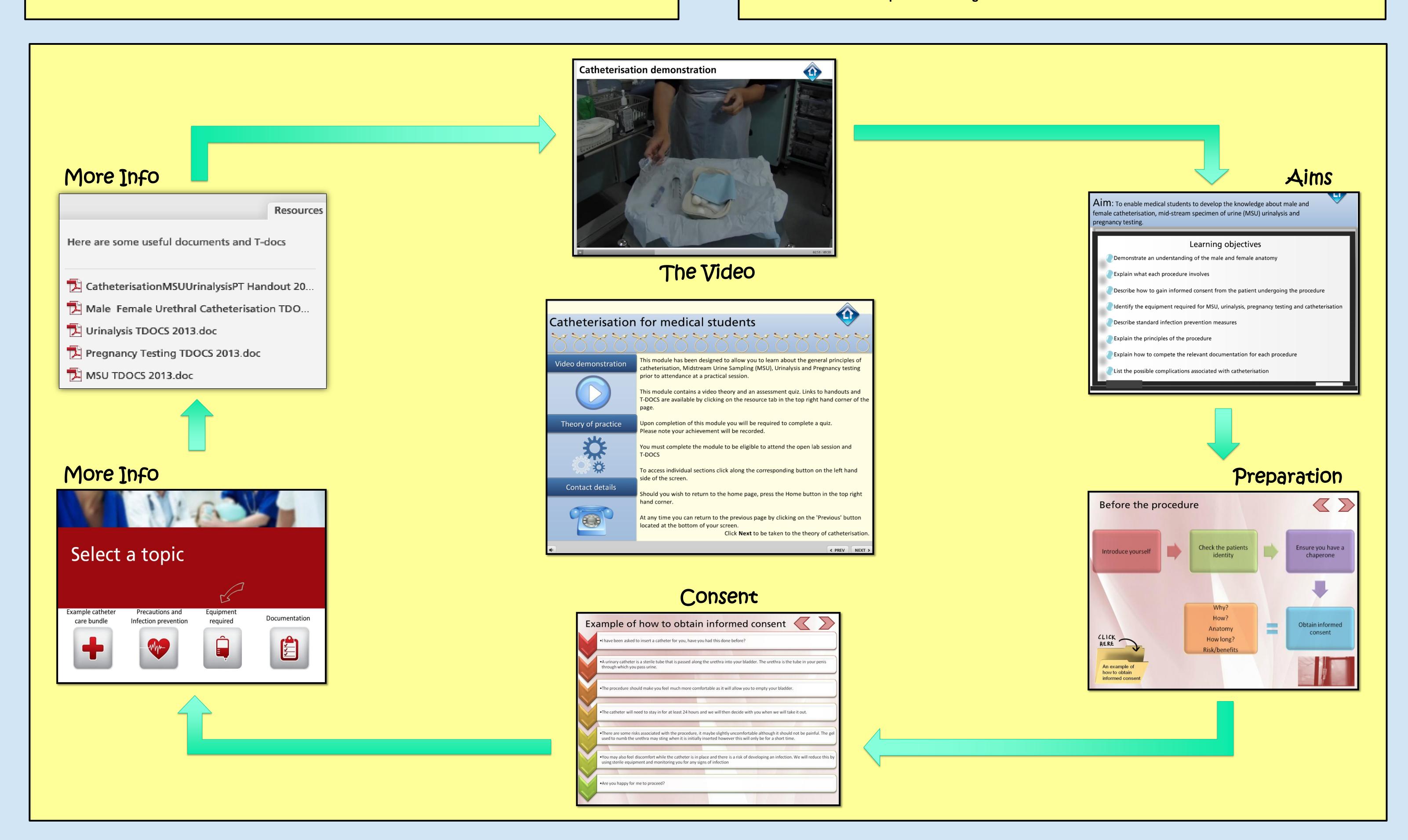
>To build a template for developing further clinical skills modules.

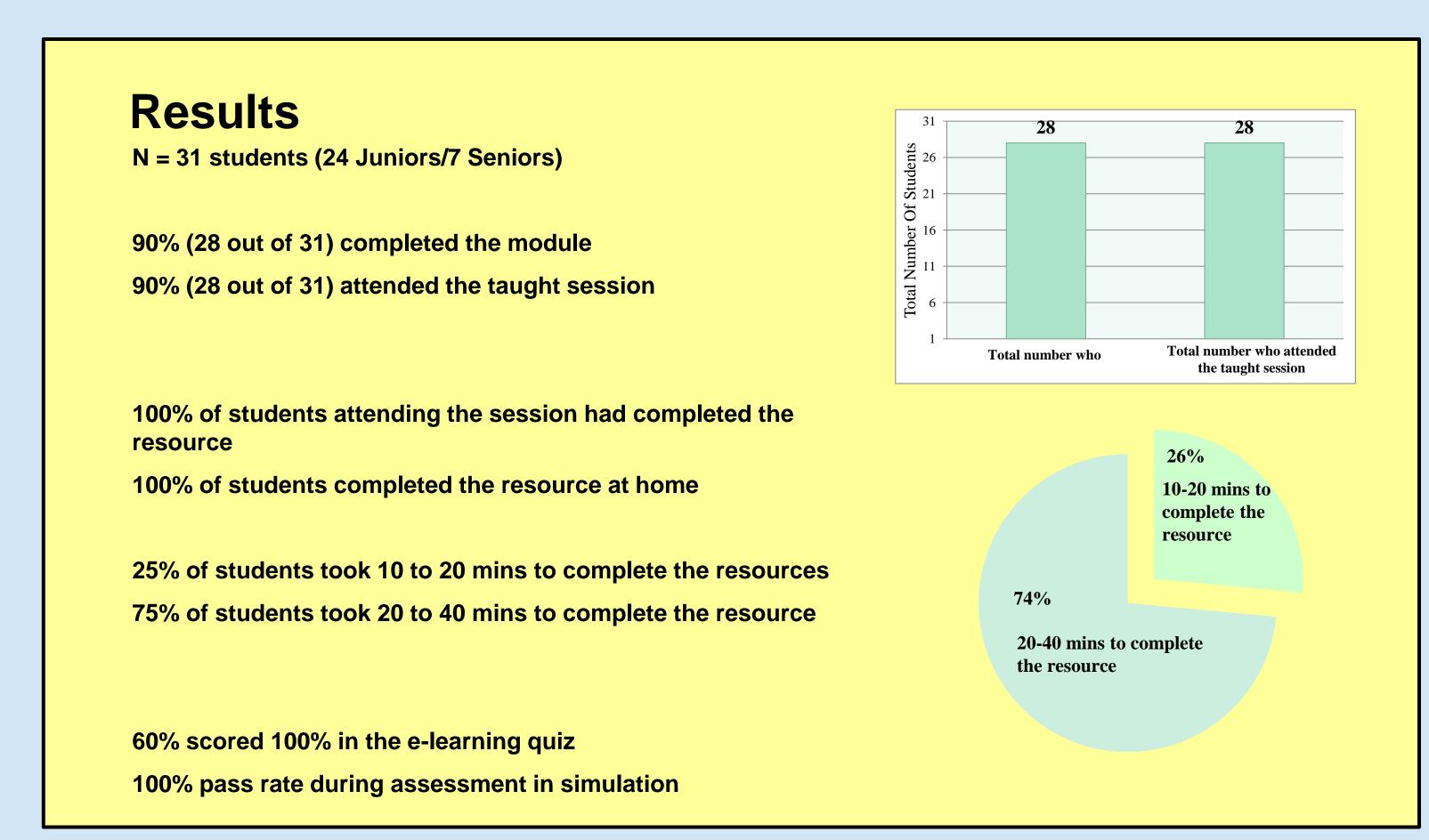
Design: Pilot study

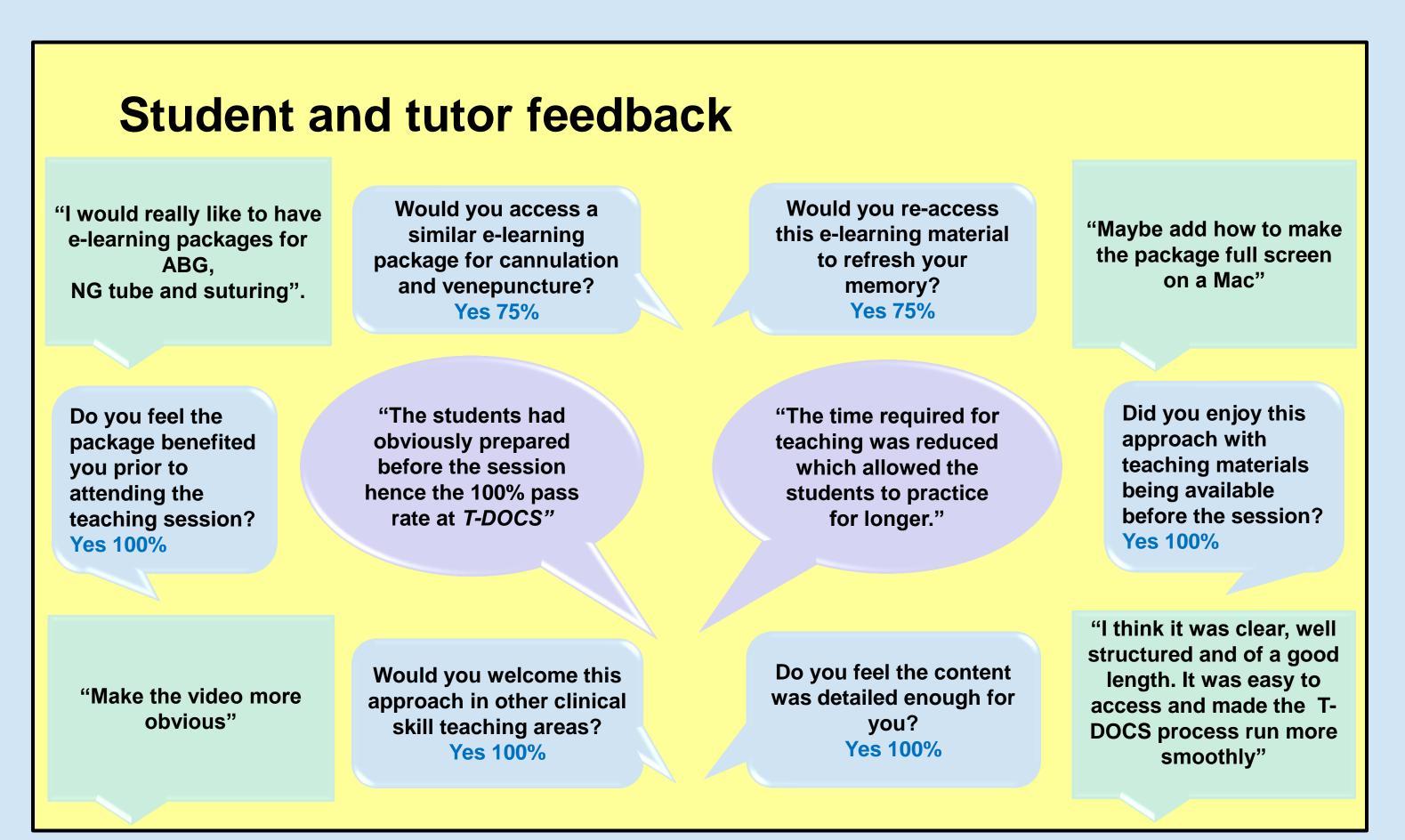
Setting: An Acute Hospital NHS Trust
Participants: Junior/Senior medical students n= 33

Clinical skills and resuscitation tutors n=2

Interventions: An e-learning module was developed for urethral catheterisation, pregnancy testing, midstream specimen of urine and urinalysis, which were the clinical skills delivered during blocks 4 and 9. The module included a video, theory and a quiz to assess knowledge and was hosted on the training tracker learning system. Students were given user names and passwords and asked to access the module prior to the taught session and simulated assessment.







Next Steps

Media students from the local FE college booked to record cannulation and venepuncture videos.

Develop e-learning resources for cannulation and venepuncture.

Share new resources with clinical skills and resuscitation tutors at UHCW, SWFT and WMS.

Try to build a library of resources for all clinical skills.

Acknowledgments

Block 4 and 9 medical students at George Eliot Hospital NHS Trust during September 2013

Clinical skills and resuscitation tutors at George Eliot Hospital NHS Trust

Rachael Evans – Resource Development

Advisor
Sumir Nair - Video Director

Further information

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