Technology Enhanced Remote Assessment
AUTHORS

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BACKGROUND

• Direct Observational Assessment is a Core Course Requirement

• Lone observer - Hawk and Dove

• Dual Examiners superior –

  Increases student stress
  Limited numbers of Experts
  Reduced working hours EWTD (2003/88/EC)
  Larger clinical loads
  Increasing class sizes of new trainees
AIMS

• Further the objectives of the Trinity Education Project

• Promotion of non-traditional modes of assessment

• Embed 21st Century assessment modalities into the curriculum.
METHODS

• Mixed methods approach – quantitative and qualitative

• A prospective study on correlations between two examiners' direct observation assessments – one present, one remote

• Remote assessment via a tele-presence device

• Examiner, student and patient evaluations
METHODS

Five-foot tall tablet computer on wheels via Wi-Fi – Double Robotic TM.
METHODS

• Controlled by the absent examiner, via their mobile phone.

• Remote assessor appears on the screen

• Conducts a face-to-face interaction with the student

• Student and patient can be seen up close

• Examiner can check for levels of competence in the students’ performance.

• Remote assessor can quickly travel around the exam room.
• Approval sought from the School of Medicine Research and Ethics Committee.
RESULTS - Pilot

Themes and Issues Identified by Remote Assessor

• Wi-Fi Access
• Drainage of battery
• Picture Good – screen freezing
• Difficult to hear on occasion- student needs to talk to screen
• Difficult to move around bed
• Remote assessor observer rather than participant ? Mounted device
RESULTS - Pilot

Themes and Issues Identified by Students

• Unsure re talking to the remote assessor
• Non – intrusive
• Better than 2 Examiners in the room
• Conscious of device moving around the room
RESULTS - Pilot

Themes and Issues Identified by Simulated Patients

- Didn’t take much notice of device/remote assessor
- Remote assessor more about watching the student rather than interacting with them
- Need to ensure enough room around bed to move device quickly
- Would a mounted device work better?
THE FUTURE

• Run a main study with more students and more devices.
• Purchase mounted devices Jibo™
• Compare Mobile and Static devices
COSTINGS

• **Purchase cost of double robotics device = 2,600 Euro per unit**

  Includes Double 2, Charging Doc, Audio and Camera Kit, Driver Apps, AC Adapter and 1 Year Warranty.

  **Purchase cost of Jibo - $ 499**

  • Two high-resolution cameras, 360-degree microphones
  • 11 inches tall - a six-inch base - six pounds
  • HD LCD touch-screen display, ambient LED lighting, Wi-Fi, Bluetooth, Linux-based platform and ARM-based mobile processor.
CONTACT DETAILS

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Thank You

Questions?