Workshop 3: Simulation-based Oral Health Education using Innovative Technique and Technology
Day 1 Friday 28 September 2018: 10:50am – 12:30pm (90min Workshop)
Presenter: Denise Higgins

Abstract:
Background: Simulation-based education is a technique available to dental and oral-health (OH) learners. Advances in technology due to enterprise and innovation provide new approaches to teaching and learning. Dental and OH practitioners learn clinical and non-clinical skills after obtaining underpinning theoretical knowledge and participating in simulation. Published literature compares the use of dental simulators but little evidence was found on dental and OH simulation-based education. The lack of published evidence led to the design and evaluation of a new approach to deliver a simulation-based OH technique at the University of Newcastle, Australia (UON). Aim: The project aim was to evaluate an OH simulation-based program design using purpose built simulators for undergraduate oral health students. Methodology: A simulation-based project design was developed and delivered to undergraduate OH students enrolled at UON. The students participated in a local anaesthesia simulation activity which included the standards of best-practice for simulation in healthcare. The students utilised purpose-built local anaesthesia simulators during the simulation. Pre and post questionnaires were completed to compare the traditional educational model to the new approaches to simulation-based OH education. Results: The students’ confidence and overall satisfaction was increased after participating in the newly developed local anaesthesia simulation-based activity. The students met the learning outcomes due to the inclusion of the standards of best-practice for simulation in healthcare which include pre-briefing, simulation activity, debriefing and reflection. As a result, the students felt prepared to provide dental and OH treatment including local anaesthesia. Conclusion: The uniquely designed UON OH simulation-based education provided a learner-centred approach, educational theories and contributed to increased patient safety. Students’ overall satisfaction rates increased after participation. The simulation-based program design can be applied to all clinical skills training sessions including post-graduate continuing professional development programs and workshops.
Relevance:
Relevant to oral health students, practitioners, educators and oral health continuing education.

Simulation Program Outline: Initial presentation (30 min), Pre-brief (15 min), Simulation activity (20 min), Debriefing (10 min), Conclusion / Q&A (10 min)  Workshop Overview: The registrants will listen to a presentation describing standards of best-practice for oral health simulation. A simulation will be delivered allowing them to participate in a briefing, simulation activity, debriefing and reflection. The workshop is aimed at increasing awareness of the importance of evidence-based teaching and learning methods for continuing professional development and oral health workshops. Participants will also have the opportunity to trial the newly developed local anaesthesia simulator during the workshop.  Keywords: Oral health, simulation, continuing professional development (CPD)

Participants
Description: You should attend this workshop if you are seeking best-practice methods for continuing professional development and oral health simulation. Registrants will participate in an oral health simulation and experience the benefits of embedded standards of best-practice for continuing professional development.

Learning Outcomes:
2. Discuss the educational efficiency of the use of simulation in post-graduate training.
3. Compare oral health simulation methods and modalities.

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