

NUS-Priority Research In Medical Education

Bridging Clinical Skills Training and Oral/Facial Anatomy with Computer-Aided 3-D Visualization to Enhance Operative Skills Competency



Dental students have difficulty in applying anatomical knowledge learnt to the clinical context in the administration of the *Inferior Alveolar Nerve regional local anaesthesia* (LA). Three interactive platforms were developed to overcome this difficulty.

- (i) an iBook app
- (ii) a stereoscopic virtual LA delivery model using the iBench (EON Reality), and
- (iii) a 3D printed physical model of the oral anatomy.

The presentation shares how these platforms help with learning. It will highlight the main challenges faced in the development, e.g., the steep learning curve in human anatomy of the technical team, and the approach taken to mitigate these issues.

A/Prof Kelvin FOONG Weng Chiong

Faculty of Dentistry, National University of Singapore

Assoc Prof Kelvin Foong is the Discipline Director of Orthodontics and Paediatric Dentistry at the Faculty of Dentistry, NUS. He is the Director of the Orthodontics Residency Programme and is a Fellow of the NUS Teaching Academy. His educational research interests are in (i) understanding the novice to expert progression in learning, and (ii) how technology contributes to this progression.

Exploring the Sustainability of Outcomes in Paediatric Residents Who Have Done an International Medical Elective and/or Outreach Rotation during Paediatric Residency



International medical electives are increasingly being offered during residency. Studies show that such electives improve physical exam skills, increase knowledge of tropical medicine, and may improve competencies in domains that are traditionally difficult to teach. We analyzed reflective essays and surveys of Paediatric Residents who have been on such electives since 2012 to explore the sustainability of such outcomes and suggest best practice for wider implementation of similar electives during residency.

Dr Elizabeth ANG You Ning

Department of Paediatrics, National University Hospital

Dr Ang is a Consultant Paediatrician who practices both hospitalist/general Paediatrics and Paediatric Rheumatology. She especially enjoys providing clinical care and medical education in resource-poor countries. She wants to advocate for international elective rotations/outreach efforts at the Residency Program level.

Date : 5 June 2017 (Monday)

Time : 12.30pm - 1.00pm (A/Prof Foong), 1.00pm - 1.30pm (Dr Ang)

Venue : Room T09-04, Level 9, NUHS Tower Block, 1E Kent Ridge Road, Singapore 119228

Lunch will be provided from 12noon to 12.30pm. Please RSVP at <https://www.surveymonkey.com/r/NUS-PRIME5June2017>* by 29 May for catering purposes.

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SMC CME / CNE / CPE accreditations are being finalised

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