

NUS-Priority Research In Medical Education

Using Script Concordance Testing Questions to Assess Clinical Reasoning - Formatively and Summatively: What are the Evidences?



Script Concordance Testing (SCT) is a relatively new modality of assessing higher order clinical reasoning (CR) and data interpretation skills in the context of uncertainty. In each SCT, candidates are presented with a clinical scenario, followed by a new piece of information. The candidates are then asked to assess whether this additional information increases or decreases the probability/appropriateness of the suggested provisional diagnosis/ proposed investigation or management.

SCT has been used in many institutions internationally to assess CR skills (both formatively and summatively) in medical students and post-graduate fellows under training. SCT has been proven to be both valid and reliable in assessment across many disciplines (eg. Medicine, Surgery, Paediatrics, General Practice, Psychiatry, Medical Ethics and Professionalism).

Evidence behind the use of SCT as a formative and summative assessment of CR reasoning will be discussed. The progression of CR skills from novice (medical students) to junior fellows and to experience GPs experts will be shared. Online practice SCT questions asking students to put in their reasoning behind choosing each answer followed by immediate expert feedback could be used to improve their CR skills.

A/Prof Michael WAN, MBChB, FRCP, FHKCP, FHKAM, FANZAHPE, GCUT, JP (NSW)
School of Medicine, University of Notre Dame, Australia

Assoc Prof Michael Wan is the former Head of Assessment in the School of Medicine Sydney at the University of Notre Dame, Australia. He undertook his Cardiology Fellowship at Westmead Hospital, Sydney. He has published more than 100 abstracts and articles in peer reviewed journals, many of them were on medical education and assessment. His current research interest is in assessment of clinical reasoning. He has also published books on Problem Based Learning (PBL) and clinical reasoning. He is the review panellist for many medical education journals and has been collaborating with the Australian Medical Council (AMC), Medical Dean of Australia and New Zealand (MDANZ), University of Adelaide and AMSAC on calibration of assessment items in Australia. He received the Vice Chancellor's Award for excellence in teaching and the Australian Office of Learning & Teaching National Citation Award. He has recently been conferred the Fellowship of the Australia and New Zealand Association of Health Professional Educators (FANZAHPE)

**NUS-PRIME
Research
Consultation**

If you would like to seek pedagogical, methodological or statistical support for your medical and health professions education research, come discuss with our educationalists at the NUS-PRIME Research Consultation session.

This session will take place after A/Prof Wan's presentation till 2.00pm. The next session will tentatively be held during July NUS-PRIME.

Date : 3 April 2019 (Wednesday)
Time : 12.30pm - 1.30pm
Venue : Room 01-02, Level 1, MD6, 14 Medical Drive, Singapore 117599

Lunch will be provided from 12noon to 12.30pm.
Please RSVP via the link or scan the QR code by 26 March for catering purposes.
<https://www.surveymonkey.com/r/NUS-PRIME3April2019>

