HIGH FIDELITY, LOW COST MOULAGE AS A VALID SIMULATION TOOL TO IMPROVE BURNS EDUCATION (P202)

*Pywell M.[1], Evgeniou E.[2], Highway K.[3], Estela C.[3]

[1] Guys and St Thomas' Hospital, Plastic Surgery, London, Great Britain
[2] Derriford Hospital, Plymouth, Great Britain
[3] North Bristol NHS Trust, Bristol, Great Britain

Question: Simulation allows the opportunity for repeated practice in controlled and safe conditions. Moulage is a technique that uses materials such as makeup to simulate clinical presentations. The fidelity of moulage can be assessed by face validity (realism) and content validity (appropriateness). The aim of this project is to examine the fidelity of moulage prepared by a trained professional compared to moulage prepared by a course faculty member in the context of a burns management course.

Methods: Four actors were randomly assigned in groups of two to a professional make-up artist or a course faculty member for moulage preparation. Participants completed the actor-based burn management scenarios and answered a ten-question Likert-scale questionnaire on face and content validity. Mean scores and student's t-test were used to compare professional and non-professional moulage. Cronbach's alpha was used to assess internal consistency.

Results: Twenty participants experienced three out of four scenarios and completed 60 questionnaires. The moulage prepared by a professional had significantly higher ratings for face (4.3 v 3.8; $p<0.01$) and content (4.3 v 4.0; $p<0.01$) validity. Internal consistency of face ($\alpha = 0.91$) and content ($\alpha = 0.85$) validity questions was very good.

Conclusions: The fidelity of professionally prepared moulage, as assessed by face and content validity, was significantly higher than non-professionally prepared moulage. Both methods of moulage were shown to have high validity in the setting of a burns management course. We have shown that using professional techniques and low cost materials we can prepare quality high fidelity moulage simulations.