INVESTIGATING THE EFFICACY OF ANATOMICAL SILICONE MODELS DEVELOPED FROM A 3D PRINTED MOLD FOR PERINEAL REPAIR SUTURING SIMULATION

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ABSTRACT: Poster (1D)

Purpose: There is a scarcity of affordable, validated, standardized, and anatomically correct silicone perineum models. The purpose of this technical report is to describe and validate evidence for a perineum repair model created from a 3D printed mold for training and skills maintenance.

Methods: Twelve silicone perineum models were produced from a 3D printed mold, for use during a one-hour workshop at the Rural and Remote Conference by 16 Obstetrics and Gynecology residents and practicing rural physicians, and four facilitators. At the end of the workshop the participants were asked to rate the perceived realism and educational effectiveness as compared to animal models.

Results: The overall workshop participant feedback was positive, noting that the models provided more realistic visualization for the suturing simulation of 1st and 2nd degree perineal injuries.

Conclusion: Silicone perineum models, created from a 3D printed mold, are a more anatomically accurate way to train residents and maintain clinical skills in perineal repair, as compared to pre-existing tools such as beef tongues and synthetic sponges, currently used in Obstetrics and Gynecology simulation-based medical education.