

Logan, H. Surgical design and simulation in fibula free flap reconstruction: Benchtop study to current practice (Oral Presentation)

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Surgical design and simulation (SDS) is a useful tool to help surgeons visualize the anatomy of the patient and perform operative maneuvers on the computer before implementation in the operating room. While these technologies have many advantages, further evidence of their potential to improve outcomes is required. The presentation will discuss a benchtop study which was completed in the Medical Modeling Research Lab at the Institute for Reconstructive Sciences in Medicine (iRSM) at the Misericordia Community Hospital. The study was intended to identify if there is a difference in surgical outcome between free-hand surgery completed without virtual surgical planning (VSP) software and preoperatively planned surgery completed with the use of VSP software. The presentation will also discuss how SDS has influenced best practice at iRSM and how this has impacted patient care.