



ACADEMY OF MEDICINE
SINGAPORE

College of Dental Surgeons, Chapter of Oral and Maxillofacial Surgeons

Maxillo-mandibular Reconstruction with Vascularized Bone Flap Using Computer Assisted Surgery

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18:30 - 20:00

Speaker: A/Prof Zheng Lei

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Synopsis: Microvascular free bone transfer using computer-aided surgery (CAS) has proved to be a very reliable solution for jaw reconstruction and yields superior functional outcomes. We concluded our clinical studies focusing on CAS integration with vascularized bone flaps such as the modified iliac flap and femur flap for maxillofacial reconstruction. We have developed a comprehensive workflow, and streamlined the utilization of in-house computer-aided design and computer-aided manufacturing processes, incorporating intraoral anastomosis microsurgery and super-microsurgery in maxillofacial reconstruction. Our studies have conclusively highlighted that the combined approach of CAS with vascularized bone flap techniques in maxillofacial reconstruction is not only feasible but also instrumental in simplifying complex procedures. This integration has substantially improved the predictability and reproducibility of surgical outcomes and expanded the surgical scope, consistently leading to favourable results.

Webinar Registration Link:

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