## oo560 Comparing the Medial Sural Artery Perforator and Radial Forearm Flaps in Intraoral Reconstruction

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**Aims:** The radial forearm flap (RFF) is the flap of choice for intraoral defects. Recently, the medial sural artery perforator flap (MSAPF) has been successfully used with better donor site outcomes.

**Methodology:** We compared 5 MSAPF and 6 RFF patients who underwent intraoral reconstruction by a single surgeon. Data was collected on flap characteristics, postoperative complications, functional outcomes and patient satisfaction. Statistical analysis was performed using Fisher's exact and student's t-tests.

**Result:** The MSAPF was thicker and harvest time significantly longer compared to the RFF (129 vs 73min, p<0.001). No flap deaths occurred with only 2 cases of minor flap tip necrosis in the MSAPF group. Partial intraoral dehiscence occurred in one RFF patient which was treated conservatively. Donor site complications, mostly minor, occurred in 2 MSAPF and 4 RFF patients (p=0.567). Complete donor site healing was slower in the MSAPF group (3.6 vs 1.8weeks, p=0.082) but all patients were fully weight-bearing by 2 weeks. Both groups achieved similar speech and swallowing outcomes. All patients were extremely satisfied with their results.

**Conclusion:** Although dissection is more challenging and harvest time is longer, the MSAPF provides a good alternative to the RFF and results in a better placed donor scar.