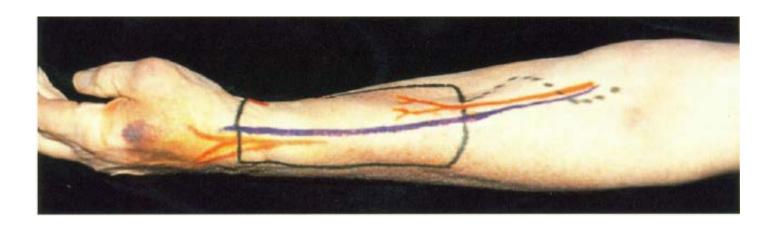
Reconstruction of the Oral Cancer patient

Donita Dyalram DDS, MD
Assistant Professor
Associate Program Director
Maxillofacial Oncology/Microvascular Reconstruction
Department of Oral Maxillofacial Surgery
University of Maryland
May 2013

Free Flap

- Radial forearm free flap
- Anterolateral thigh flap
- Fibula free flap
- Deep circumflex iliac artery free flap
- Scapula free flap

Radial Forearm Free Flap



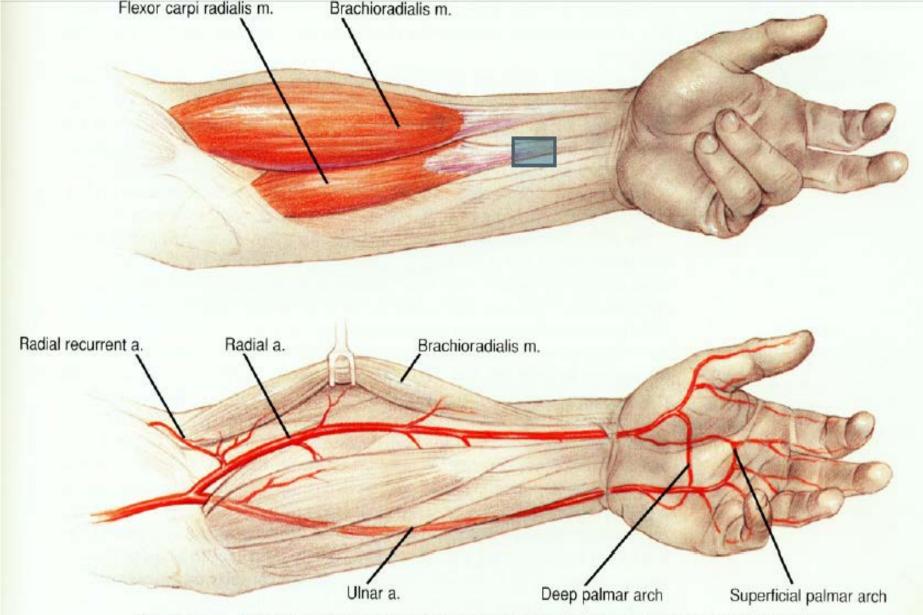


Figure 11-4. The radial artery runs a course between the flexor carpi radialis and the brachio-radialis muscles before terminating in the deep palmar arch. The deep palmar arch supplies the principal circulation to the thumb and index finger. The ulnar artery terminates in the superficial palmar arch, which primarily supplies the third, fourth, and fifth digits and often also the index finger.

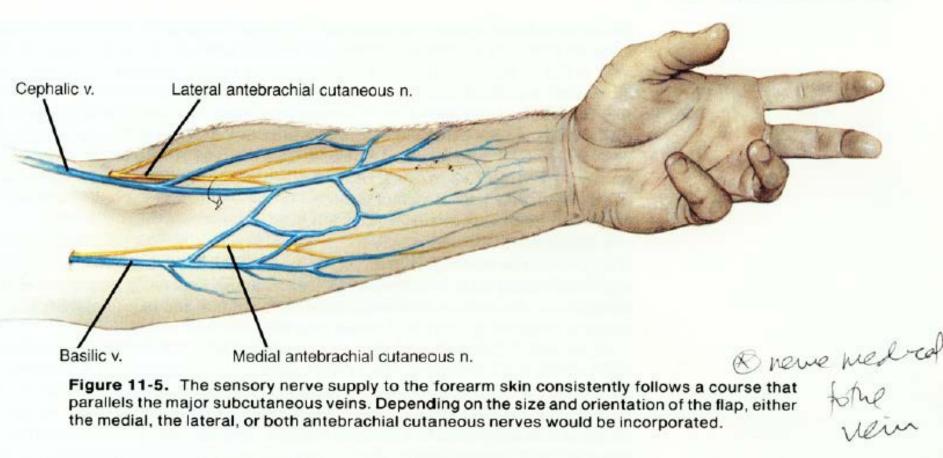
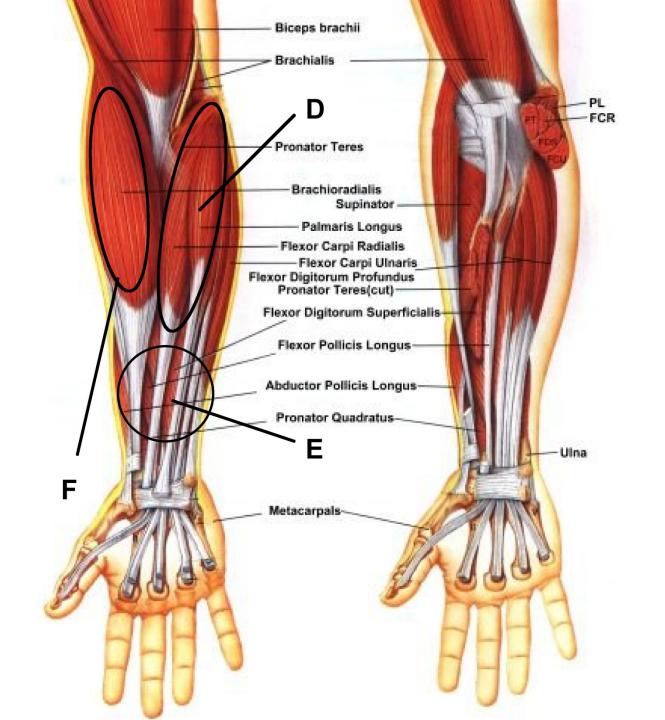
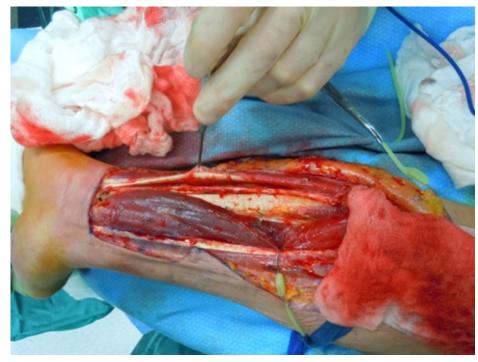
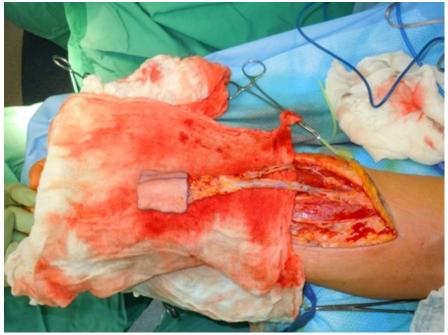
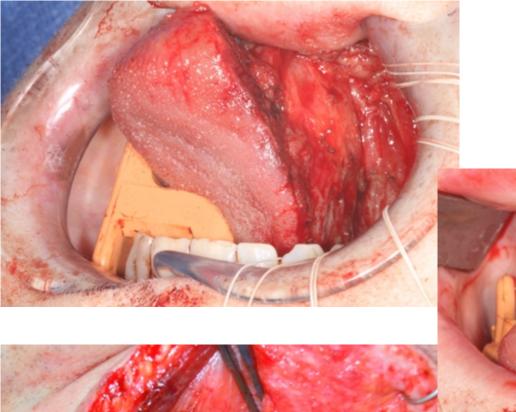


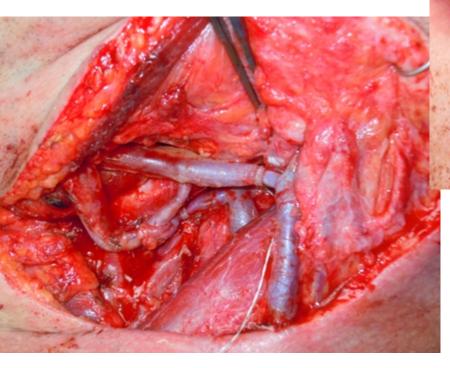
Figure 11-5. The sensory nerve supply to the forearm skin consistently follows a course that parallels the major subcutaneous veins. Depending on the size and orientation of the flap, either the medial, the lateral, or both antebrachial cutaneous nerves would be incorporated.



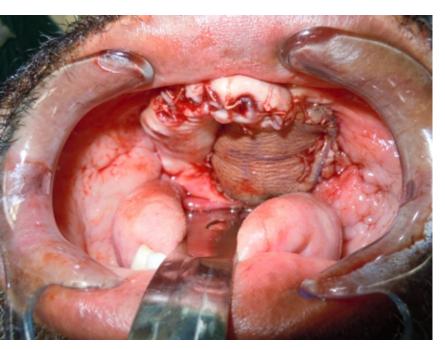








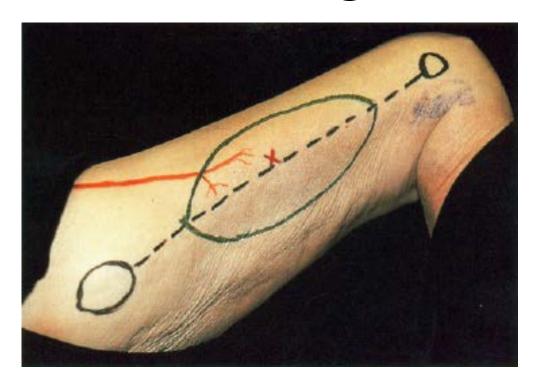




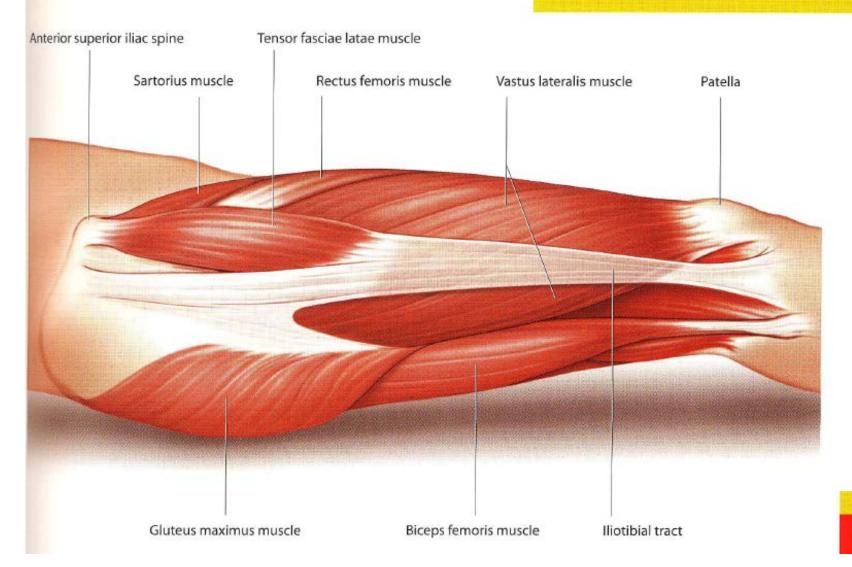


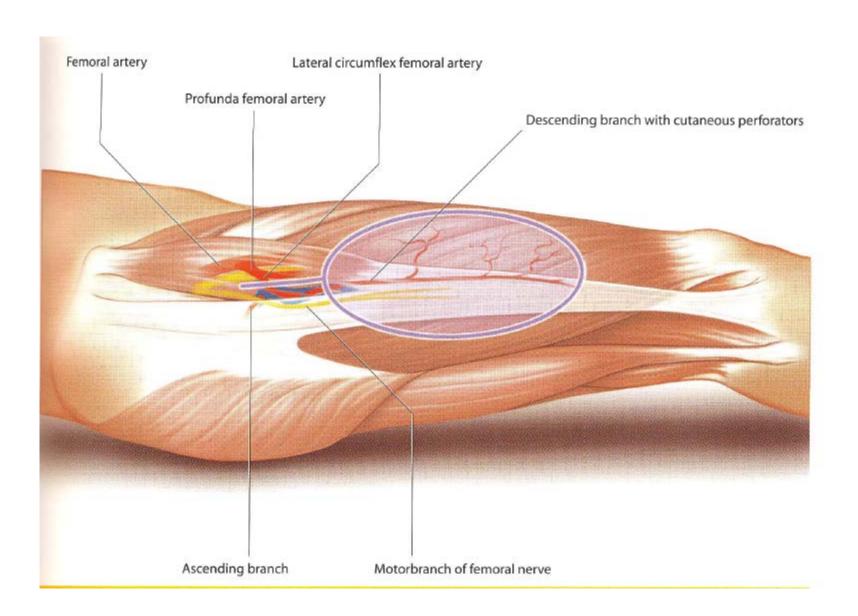


Anterolateral thigh free flap



3 | Anterolateral Thigh/Vastus Lateralis Flap









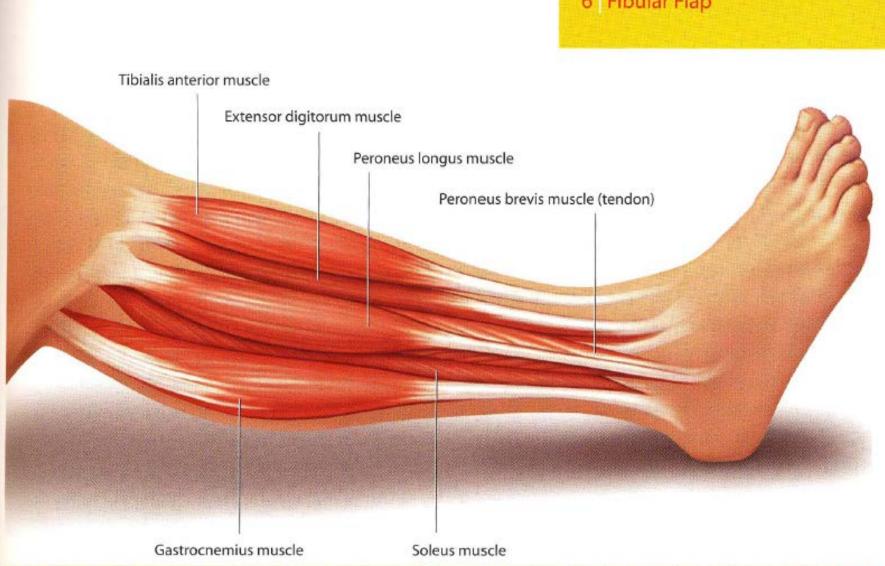


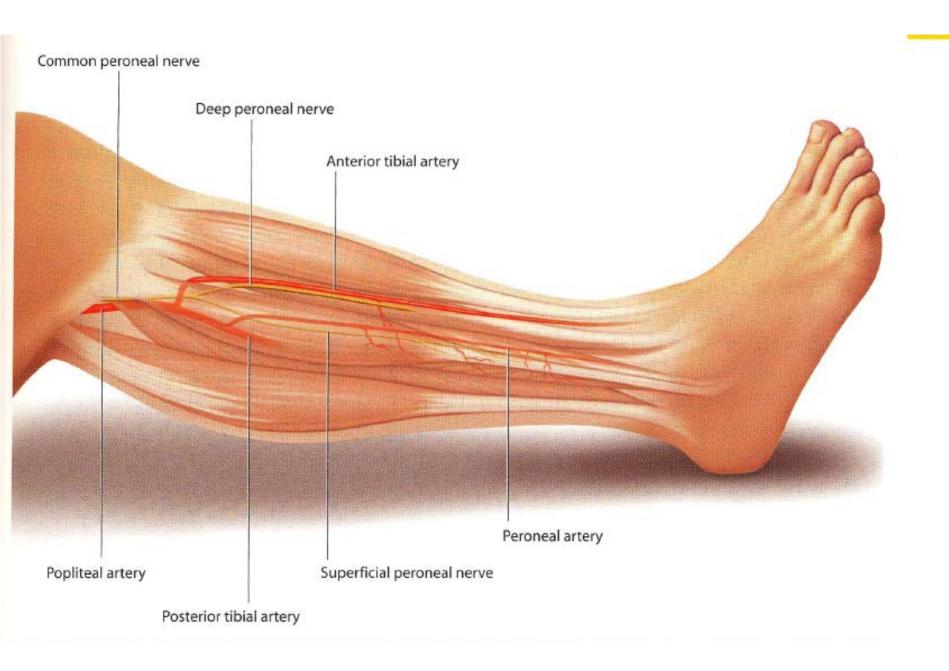


Free Fibula Flap

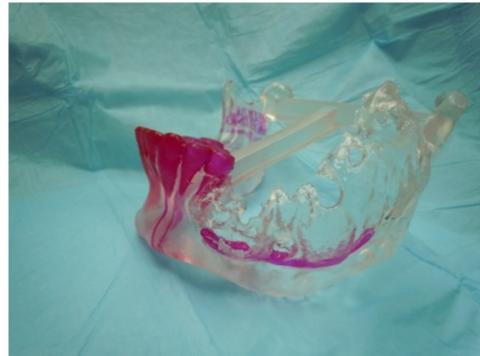


6 Fibular Flap

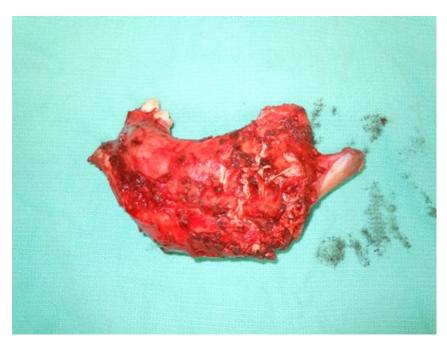




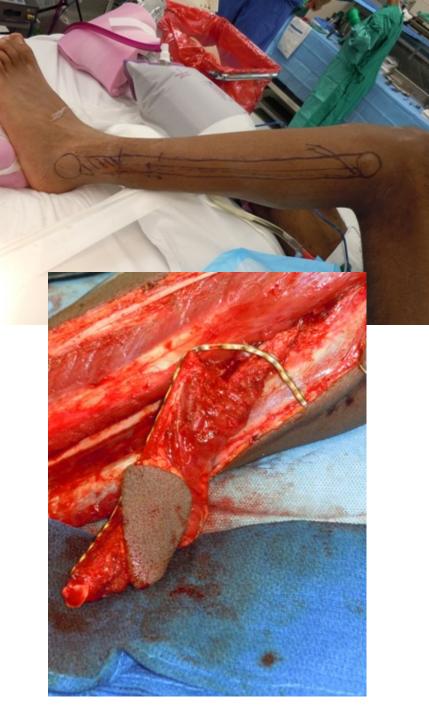










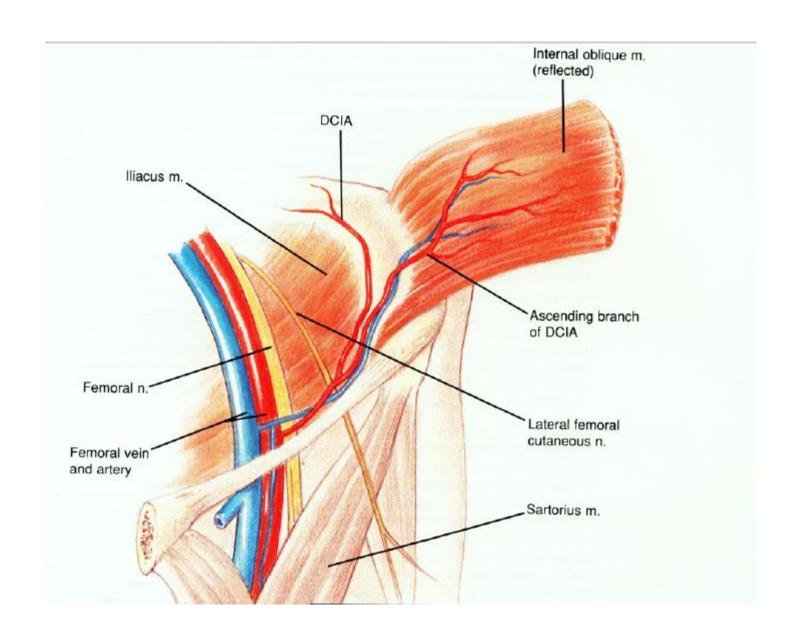


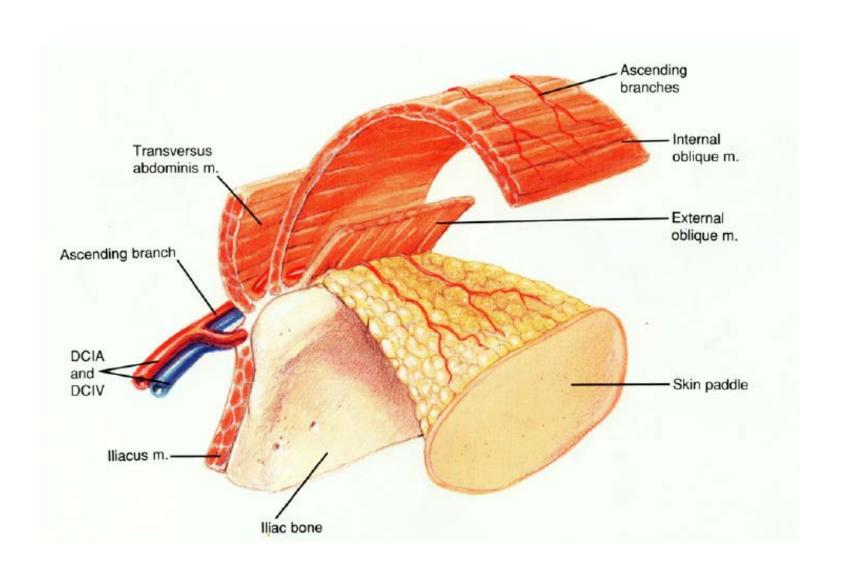


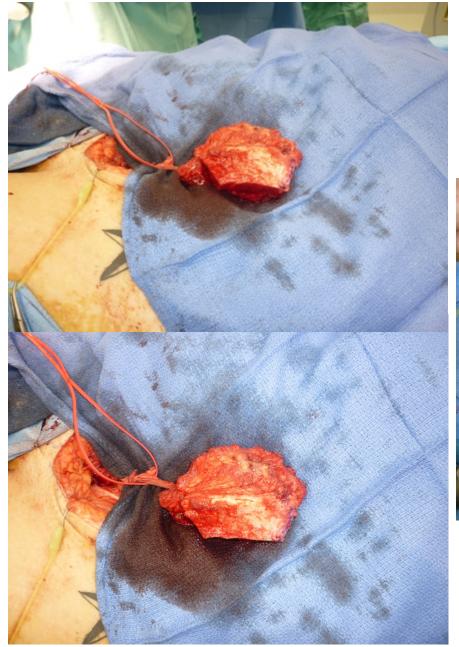


Deep iliac circumflex artery free









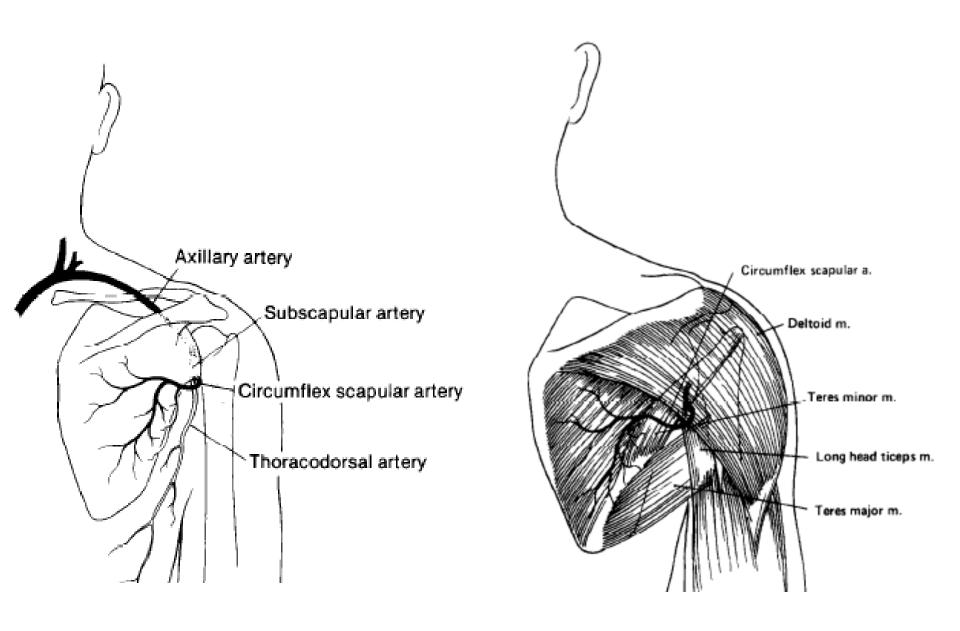




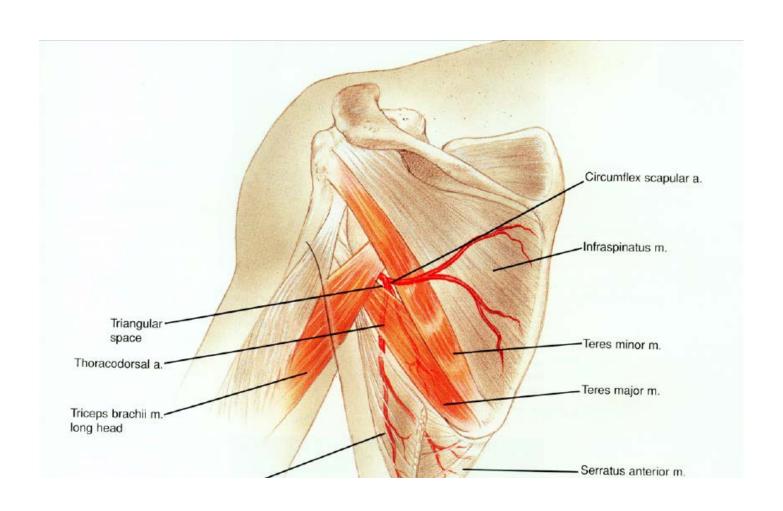


Scapula Free Flap





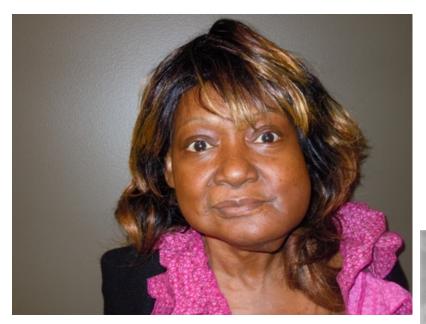
Scapula Free Flap























CASES



What information do you need?



- H and P
- Biopsy depth of invasion 5mm
- CT scan if face/ neck with IV contrast –
 N0 neck

Clinical Stage: T2N0Mx

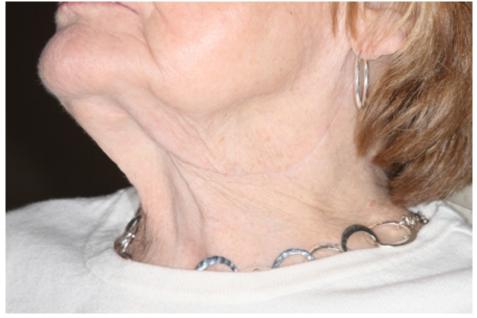
What is your surgical plan?

- Partial glossectomy
- Primary closure/STSG
- SOHND

Clinical staging: T2N0Mx





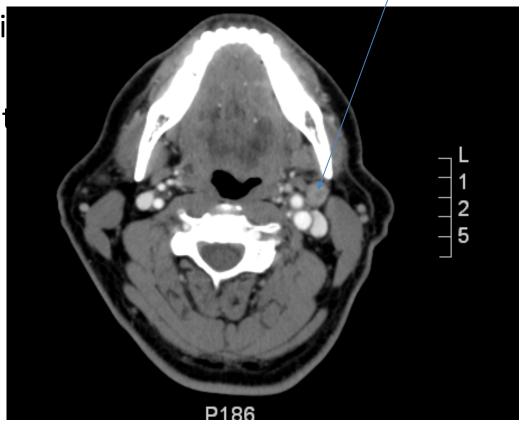


What information do you need?



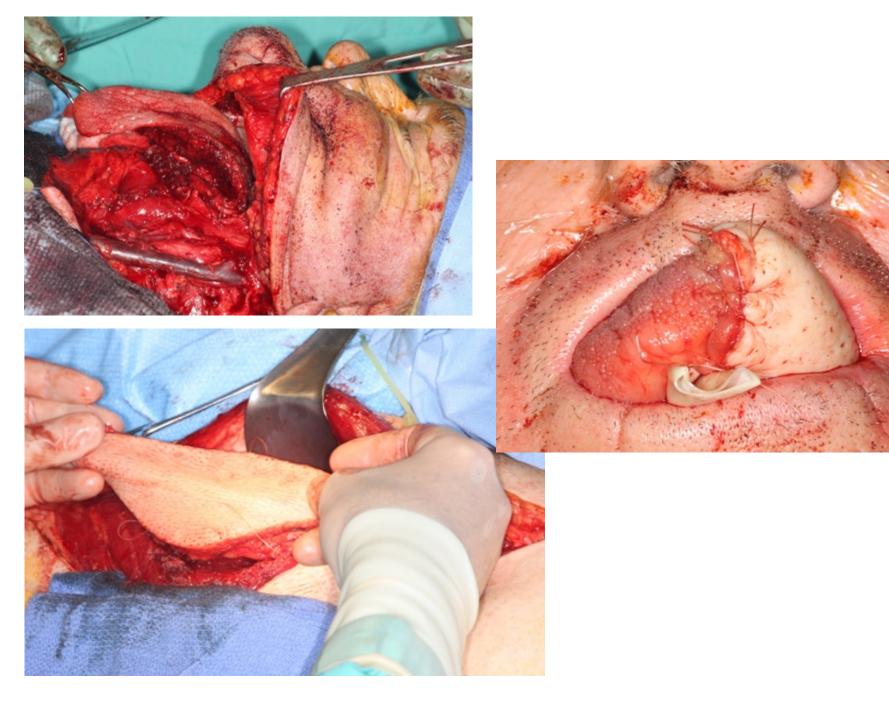
- Hand P
- Biopsy depth of invasi
 6mm
- CT scan if face/ neck with
 IV contrast –

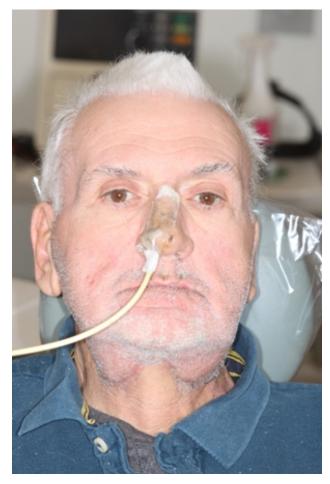
N1 neck

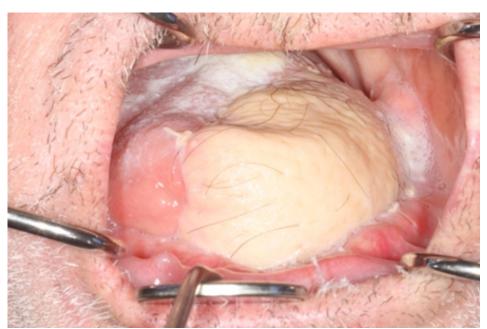


What is your surgical plan?

- Wide local excision, possible Pull through
- Selective Neck dissection Level 1-4
- Anterolateral thigh flap
- STSG
- Clinical staging: T2N1Mx









What information do you need?



- H and P
- CT scan of face and neck with contrast N0 neck
- CT scan of face without contrast bony invasion

Clincal Stage: T4aN0Mx

What is your surgical plan?

- Bilateral SOHND
- Composite resection of the Mandible, angle to angle
- Tracheotomy
- PEG
- FFF
- Reconstruction Bar
- STSG



















