Breast Reconstruction Following Mastectomy and the Effects of Postmastectomy Radiation

Shannon Wong, MD FACS

Implant Reconstruction vs. Autologous Reconstruction

Advantages:

- Short operation time
- Decreased Early postoperative complication rate
- Donor site morbidity
- Short hospital stay→ resulting in low treatment costs.

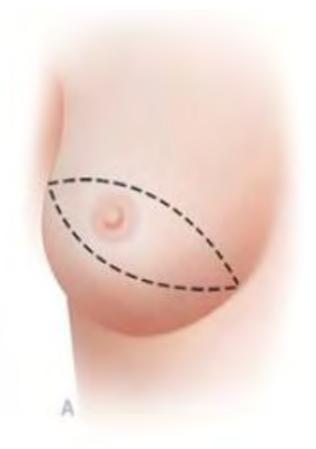
The limitations:

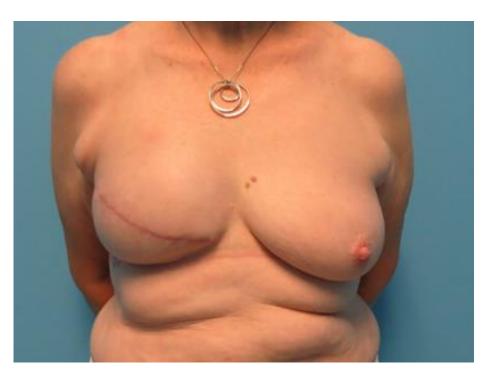
- Capsular contracture
- Implant failure- Rupture/Infection/Exposure
- Unilateral reconstruction
- Need for revision surgery



Implant Based Reconstruction

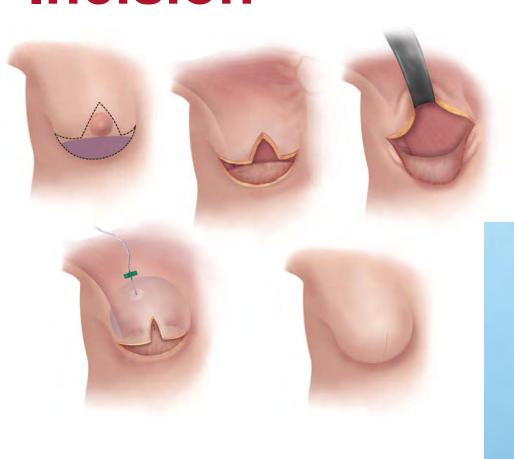
Skin Sparing Mastectomy Incision







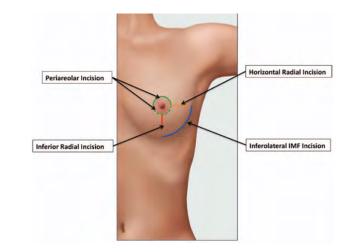
Skin Sparing Mastectomy Incision



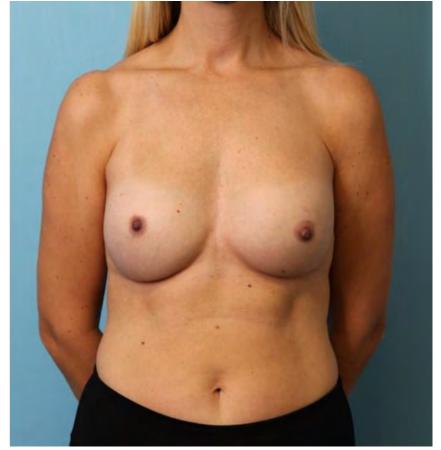




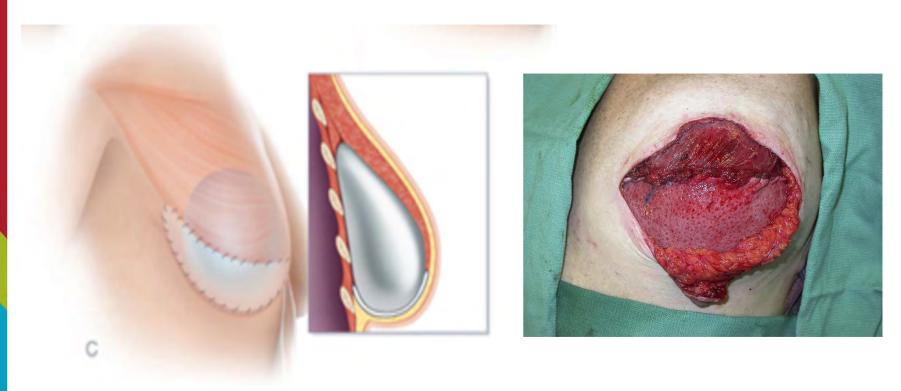
Nipple Sparing Mastectomy





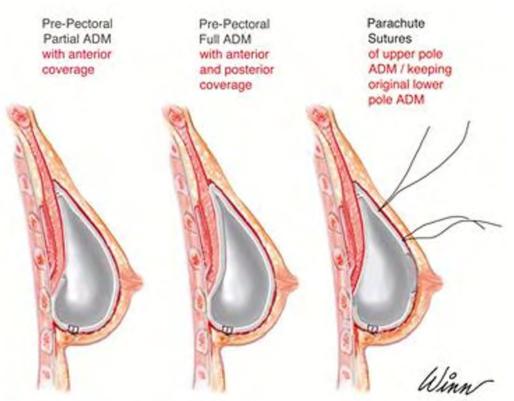


Pocket location: Retropectoral





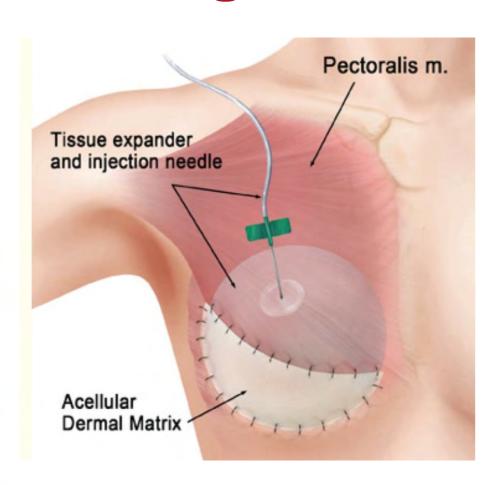
Pocket Location: PrePectoral







1st Stage: Tissue Expander

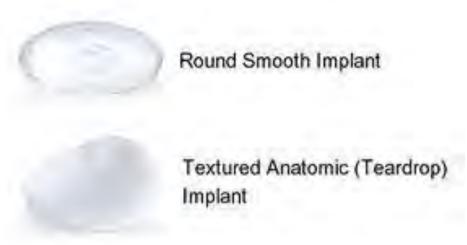






Second Stage: Silicone Implant







Direct to Implant





Autologous Breast Reconstruction

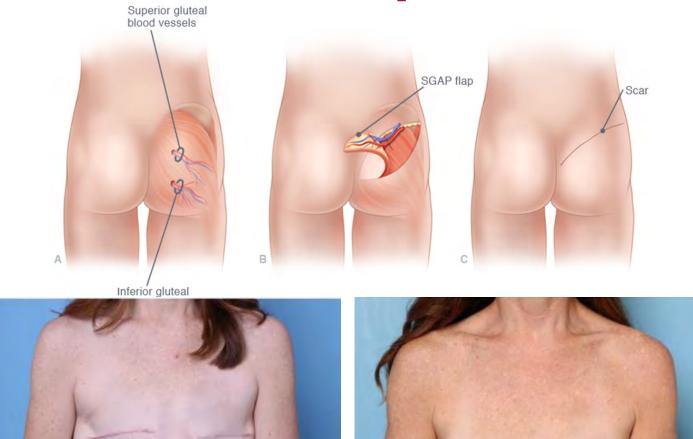
Pedicle Flap: Latissimus Dorsi Flap





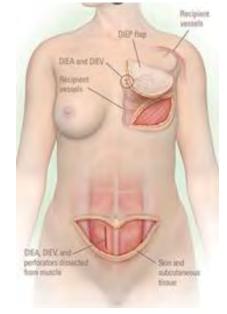


SGAP Free Flap





DIEP Flap



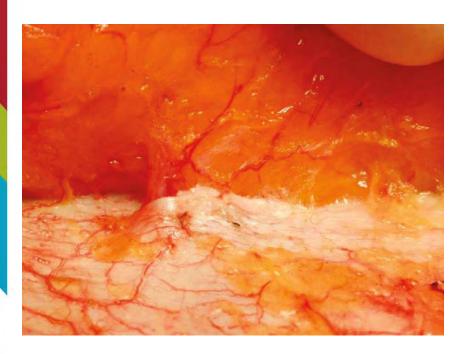


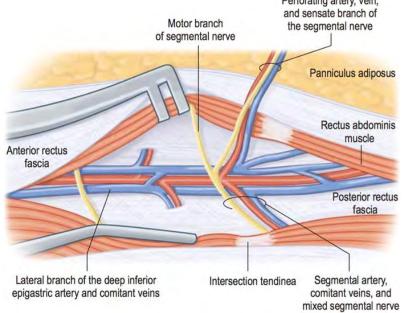




DIEP Flap

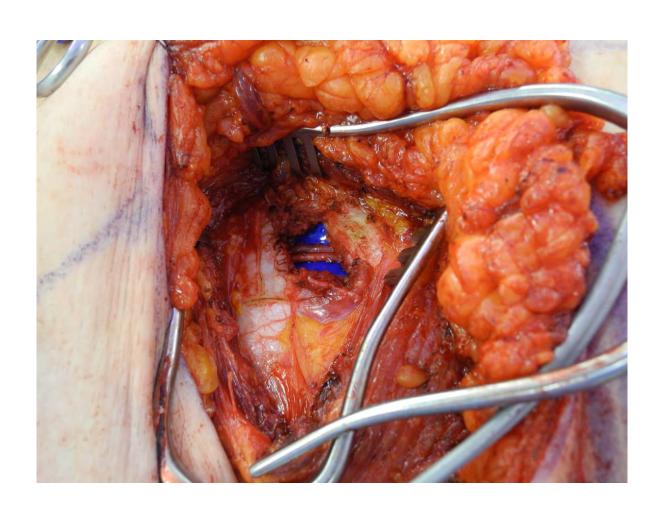






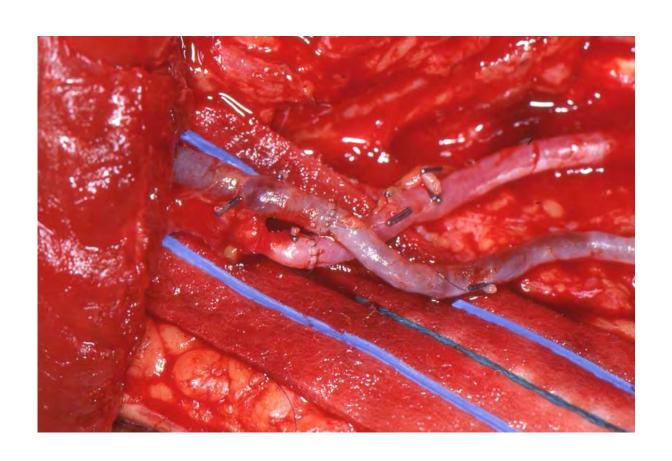


DIEP Flap





DIEP FLAP





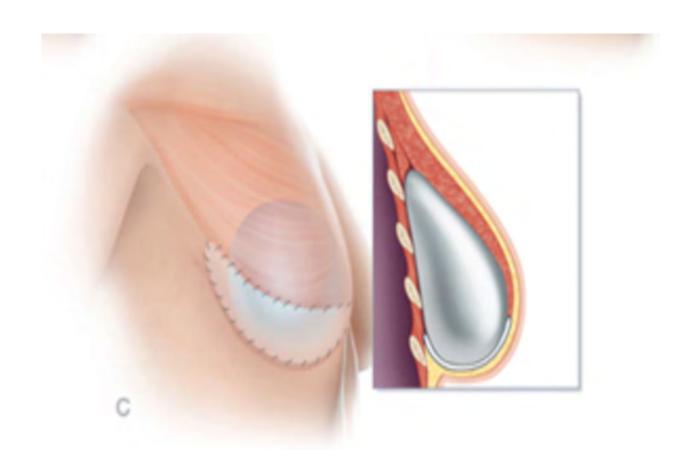
Implant Based Reconstruction and PMRT

Implant Based Breast Reconstruction and PMRT

- Timing of Breast Reconstruction following radiation therapy
- Two Stage vs. Direct to Implant
- Pocket Placement



PMRT and **Pocket Placement**





Retropectoral Implant











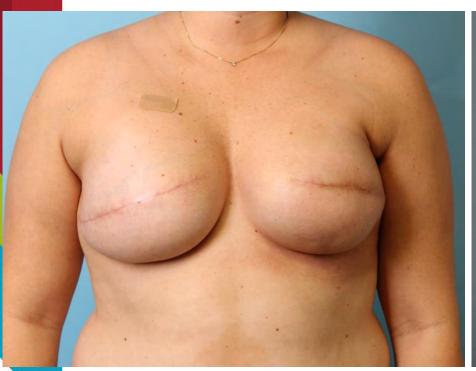


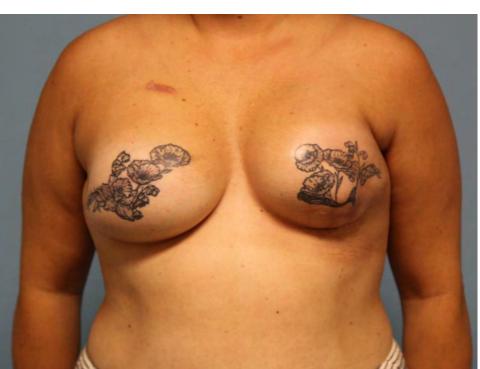
Retropectoral Implant





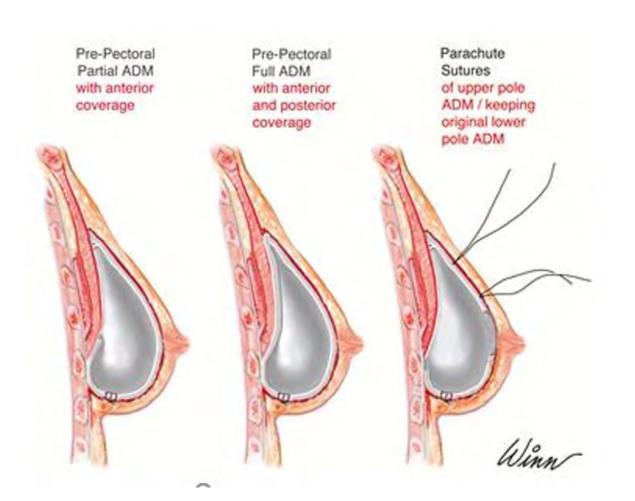






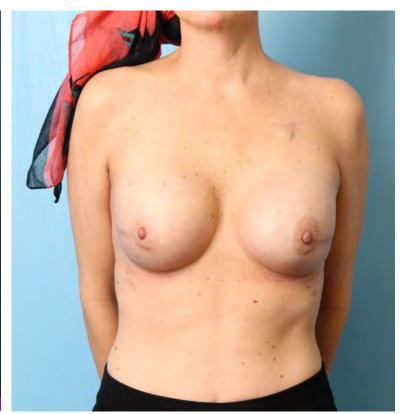


PMRT and **Pocket Placement**

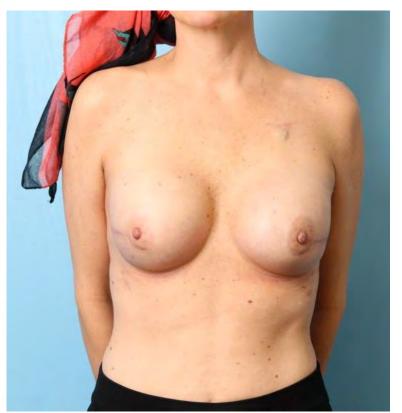
















Autologous Breast Reconstruction and PMRT

Autologous Reconstruction and PRMT

- Timing of Reconstruction
- Delayed Reconstruction vs. Immediate Reconstruction















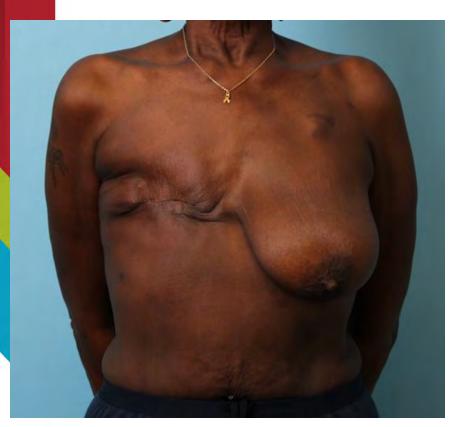






















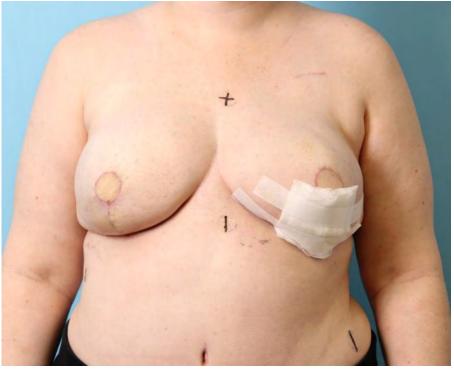




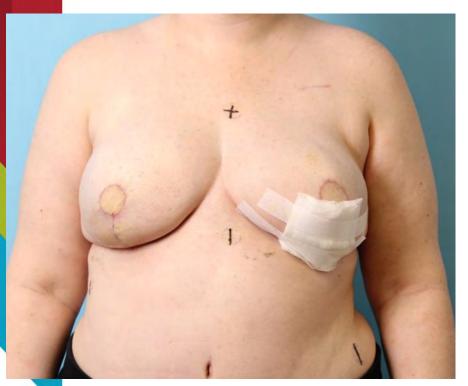


Immediate Reconstruction













Immediate Reconstruction













Immediate Reconstruction













Summary

- Autologous reconstruction is the gold standard in patients receiving PMRT
- Implant based reconstruction → Prepectoral
- 2 stage vs. 1 stage





