

## BÖLÜM 6

# MEME KANSERİNDE TOTAL MASTEKTOMİ SONRASI ÖZ DOKU İLE REKONSTRÜKSİYON

Serhat YARAR<sup>1</sup>

## GİRİŞ

Amerika Birleşik Devletleri’nde meme kanseri nedeniyle mastektomi geçiren kadınların %40’ından fazlası meme rekonstrüksiyonuna sahiptir. Bu sayı 2019’da yaklaşık 107.000 kadındır<sup>(1)</sup>. Mastektominin fiziksel ve psikolojik iyilik hali üzerindeki olumsuz etkisi tartışılmaz. Çok sayıda çalışma mastektomi sonrası rekonstrüksiyonun yararını göstermiştir. Özellikle, otolog rekonstrüksiyonla ilişkili uzun vadeli hasta memnuniyeti dikkate değerdir<sup>(2)</sup>.

Otolog rekonstrüksiyon (OR), hasta beklentilerine, vücut alışkanlığına ve cerahin becerisine göre yeni memeyi şekillendirmeyi, yapılandırmayı ve konumlandırmayı vurgulayan bir beceri gerektirir. Amerika Birleşik Devletleri’nde rekonstrüksiyon olgularının yaklaşık beşte biri (%19) rekonstrüksiyon prosedürü olarak otolog rekonstrüksiyon içermektedir<sup>(3)</sup>.

Otolog rekonstrüksiyon'a karar verildikten sonra, kemoterapi ve radyasyon tedavisine göre işlemin zamanlaması ve flep seçimi dikkat edilecek hususlardır. Flep tipleri genellikle flep dokusunun kaynaklandığı anatomik bölge ile tanımlanır. Otolog rekonstrüksiyonda kullanılan flepler derin inferior epigastrik perforatör (DIEP; OR'lerin %52'si), latissimus dorsi (LD; %22), transvers rektus abdominis miyokütanöz (TRAM; %21) ve diğer flepler (%5) olarak kabaca ayrılabilir<sup>(3)</sup>.

OR'da flebinin kaynağına ilişkin seçenekler hastanın vücut yapısı, geçirilmiş cerrahi, tıbbi komorbiditeleri ve tercihi ile sınırlı olabilir. OR zamanlama ve flep

<sup>1</sup> Uzm. Dr., Konya Şehir Hastanesi, Plastik Rekonstruktif ve Estetik Cerrahi Bölümü  
serhatyrr@gmail.com

## KAYNAKLAR

1. Jonczyk MM, Jean J, Graham R, et al. Surgical trends in breast cancer: A rise in novel operative treatment options over a 12 year analysis. *Breast Cancer Res Treat.* 2019;173:267–274.
2. Hu ES, Pusic AL, Waljee JF: Patient-reported satisfaction with breast reconstruction during the long-term survivorship period. *Plast Reconstr Surg.* 2009; 124: 1–8.
3. American Society of Plastic Surgeons. 2019 plastic surgery statistics report. Available at <https://www.plasticsurgery.org/documents/News/Statistics/2019/plastic-surgery-statistics-report-2019.pdf>. Accessed February 13, 2021.
4. Teimourian B, Adham MN. Louis Ombredanne and the origin of muscle flap use for immediate breast mound reconstruction. *Plast Reconstr Surg* (1983) 72(6):905–10. doi:10.1097/00006534-198312000-00037.
5. Hartrampf CR, Scheflan M, Siyah PW. Transvers abdominal ada flebi ile meme rekonstrüksiyonu. *Plast Reconstr Surg* (1982) 69(2):216–25. doi:10.1097/00006534-198202000-00006.
6. Arnez ZM, Smith RW, Eder E, Solinc M, Kersnic M. Breast reconstruction by the free lower transverse rectus abdominis musculocutaneous flap. *Br J Plast Surg* (1988) 41(5):500–5. doi:10.1016/0007-1226(88)90007-0.
7. Grotting JC, Urist MM, Maddox WA, Vasconez LO. Conventional TRAM flap versus free microsurgical TRAM flap for immediate breast reconstruction. *Plast Reconstr Surg* (1989)
8. Allen RJ, Treece P. Deep inferior epigastric perforator flap for breast reconstruction. *Ann Plast Surg* (1994) 32(1):32–8. doi:10.1097/00000637-199401000-00007.
9. Blondeel PN, Boeckx WD. Refinements in free flap breast reconstruction: the free bilateral deep inferior epigastric perforator flap anastomosed to the internal mammary artery. *Br J Plast Surg* (1994) 47(7):495–501. doi:10.1016/0007-1226(94)90033-7.
10. Gurunluoglu R, Spanio S, Rainer C, Ninkovic M. Skin expansion before breast reconstruction with the superior gluteal artery perforator flap improves aesthetic outcome. *Ann Plast Surg* (2003) 50(5):475–9. doi:10.1097/01.SAP.0000041489.11933.03.
11. Granzow JW, Levine JL, Chiu ES, Allen RJ. Breast reconstruction with gluteal artery perforator flaps. *J Plast Reconstr Aesthet Surg* (2006) 59(6):614–21. doi:10.1016/j.bjps.2006.01.005.
12. Papp C, Windhofer C, Gruber S. Breast reconstruction with the fasciocutaneous infragluteal free flap (FCI). *Ann Plast Surg* (2007) 58(2):131–6. doi:10.1097/01.sap.0000237635.05337.a1.
13. Saad A, Sadeghi A, Allen RJ. The anatomic basis of the profunda femoris artery perforator flap: a new option for autologous breast reconstruction – a cadaveric and computer tomography angiogram study. *J Reconstr Microsurg* (2012) 28(6):381–6. doi:10.1055/s-0032-1313773.
14. Schoeller T, Huemer GM, Wechselberger G. The transverse musculocutaneous gracilis flap for breast reconstruction: guidelines for flap and patient selection. *Plast Reconstr Surg* (2008) 122(1):29–38. doi:10.1097/PRS.0b013e318177436.
15. Nahabedian MY. Breast reconstruction: a review and rationale for patient selection. *Plast Reconstr Surg* 2009;124:55–62.
16. Granzow JW, Levine JL, Chiu ES, Allen RJ. Breast reconstruction using perforator flaps. *J Surg Oncol.* 2006;94:441-454.
17. Beckenstein MS, Grotting JC. Breast reconstruction with free-tissue transfer. *Plast Reconstr Surg.* 2001;108(5):1345-1353.
18. Zhao R, Tran BNN, Doval AF, Broadwater G, Buretta KJ, Orr JP, et al. A Multicenter Analysis Examining Patients Undergoing Conversion of Implant-based Breast Reconstruction to Abdominally based Free Tissue Transfer. *J Reconstr Microsurg.* 2018;34(09):685-691
19. O'Neill AC, Hayward V, Zhong T, Hofer SOP. Usability of the internal mammary recipient vessels in microvascular breast reconstruction. *J. Plast. Reconstr. Aesthetic Surg.* 2016;69(7):907-911.
20. Moon HK, Taylor GI. The vascular anatomy of rectus abdominis musculocutaneous flaps based on the deep superior epigastric system. *Plast Reconstr Surg* 1988;82:815-32500 .
21. Rozen WM, Ashton MW, Grinsell D. The branching pattern of the deep inferior epigastric artery revisited in-vivo: a new classification based on CT angiography. *Clin Anat* 2010; 23:87-92.

22. Holm C, Mayr M, Hofter E, et al. Perfusion zones of the DIEP flap revisited: a clinical study. *Plast Reconstr Surg* 2006;117: 37-43.
23. Rozen WM, Ashton MW, Le Roux CM, et al. The perforator angiosome: a new concept in the design of deep inferior epigastric artery perforator flaps for breast reconstruction. *Microsurgery* 2010;30:1.
24. Blondeel PN. Discussion: Perfusion-related complications are similar for DIEP and muscle-sparing free TRAM flaps harvested on medial or lateral deep inferior epigastric artery branch perforators for breast reconstruction. *Plast Reconstr Surg* 2011;128:590e-2e.
25. Rubino C, Ramakrishnan V, Figus A, et al. Flap size/flow rate relationship in perforator flaps and its importance in DIEAP flap drainage. *J Plast Reconstr Aesthet Surg* 2009;62: 1666-70.
26. Hijjawi JB, Blondeel PN. Advancing deep inferior epigastric artery perforator flap breast reconstruction through multidetector row computed tomography: an evolution in preoperative imaging. *J Reconstr Microsurg* 2010;26:11-20.
27. Masia J, Navarro C, Clavero JA, et al. Noncontrast magnetic resonance imaging for preoperative perforator mapping. *Clin Plast Surg* 2011;38:253-61.
28. Blondeel PN. One hundred free DIEP flap breast reconstructions: a personal experience. *Br J Plast Surg* 1999;52:104-11.
29. Granzow JW, Levine JL, Chiu ES, et al. Breast reconstruction with the deep inferior epigastric perforator flap: history and an update on current technique. *J Plast Reconstr Aesthet Surg* 2006;59:571-9.
30. De Frene B, Van Landuyt K, Hamdi M, et al. Free DIEAP and SGAP flap breast reconstruction after abdominal/gluteal liposuction. *J Plast Reconstr Aesthet Surg* 2006;59:1031-6.
31. Shayan R, Rozen WM, Bernard S, et al. Perforator dilatation induced by body weight gain is not reversed by subsequent weight loss: implications for perforator flaps. *Plast Reconstr Surg* 2008;122:1765-72.
32. Antia NH, Buch VI. Transfer of an abdominal dermo-fat graft by direct anastomosis of blood vessels. *Br J Plast Surg* 1971;24:15-9.
33. Grotting JC. The free abdominoplasty flap for immediate breast reconstruction. *Ann Plast Surg* 1991;27:351-4.
34. Rozen WM, Chubb D, Grinsell D, et al. The variability of the Superficial Inferior Epigastric Artery (SIEA) and its angiosome: A clinical anatomical study. *Microsurgery* 2010;30:386-91.
35. Fujino T, Harasina T, Aoyagi F. Reconstruction for aplasia of the breast and pectoral region by microvascular transfer of a free flap from the buttock. *Plast Reconstr Surg* 1975;56: 178-81.
36. Le-Quang C. Secondary microsurgical reconstruction of the breast and free inferior gluteal flap. *Ann Chir Plast Plast Esthet* 1992;37:723-41.
37. LoTempio MM, Allen RJ. Breast reconstruction with SGAP and IGAP flaps. *Plast Reconstr Surg* 2010;126:393-401.
38. Allen RJ, Levine JL, Granzow JW. The in-the-crease inferior gluteal artery perforator flap for breast reconstruction. *Plast Reconstr Surg* 2006;118:333-9.
39. Schoeller T, Wechselberger G. Breast reconstruction by the free transverse gracilis (TUG) flap. *Br J Plast Surg* 2004;57:481-2.
40. Yousif NJ, Matloub HS, Kolachalam R, et al. The transverse gracilis musculocutaneous flap. *Ann Plast Surg* 1992;29: 482-90.
41. Fattah A, Figus A, Mathur B, et al. The transverse myocutaneous gracilis flap: technical refinements. *J Plast Reconstr Aesthet Surg* 2010;63:305-13.
42. Schoeller T, Huemer GM, Wechselberger G. The transverse musculocutaneous gracilis flap for breast reconstruction: guidelines for flap and patient selection. *Plast Reconstr Surg* 2008;122:29-38.
43. Fansa H, Schirmer S, Warnecke IC, et al. The transverse myocutaneous gracilis muscle flap: a fast and reliable method for breasts.
44. Hallock GG. Further experience with the medial circumflex femoral (GRACILIS) perforator free flap. *J Reconstr Microsurg* 2004;20:115-22.
45. Allen RJ, Haddock NT, Ahn CY, et al. Breast reconstruction with the profunda artery perforator flap. *Plast Reconstr Surg* 2012;129:16e-23e.