

BÖLÜM 22

SENTİNEL LENF NODUNUN HİSTOPATOLOJİSİ

Güzin DEVECİ¹
M. Salih DEVECİ²

GİRİŞ

Sentinel (Bekçi) lenf nodu; tümör tarafından metastaz yapması beklenen ya da lenfatiklerin ilk drene olduğu lenf nodudur. Diğer bir ifadeyle eğer sentinel lenf nodu tümör içermiyorsa, diğer lenf nodlarının metastatik tümör içermediği veya böyle bir durumun görülme riskinin düşük olduğu kastedilmektedir. Sentinel lenf nodu, yakın bölgede bulunan lenf nodlarının tümör tarafından infiltrasyonu konusunda değerli bir bilgiyi bize vermektedir. Hasta için uygulamasına baktığımızda sentinel lenf nodunda tümör yoksa, hasta için morbiditeye yol açabilecek aksiller veya bölgesel lenf nodlarının çıkartılmasına; yani ek operasyona gerek kalmamaktadır (1,2).

Sentinel lenf nodunun tarihçesi; 1948’li yıllarda *Saphir ve Amromin*’in aksiller lenf nodlarının standart patolojik incelemesinin meme kanserli hastalarda aksiller metastazların saptanmasında yeterli olmadığını göstermesi ile başlatılabilir (3). Çalışmalarında Hematoksilen-Eozin (H-E) ile incelenen ilk kesitlerin aksine, lenf nodlarının seri kesitlerinde metastaz oranında artış olduğunu bildirmişlerdir. Benzeri şekilde diğer araştırmacılar da lenf nodlarına seri kesit yaptıklarında metastazı ortaya koyma oranının tek kesite oranla yüksek

¹ Uzm. Dr., Patoloji Uzmanı, SBU, Gülhane Eğitim ve Araştırma Hastanesi, Tıbbi Patoloji AD
guzindeveci96@gmail.com

² Prof. Dr., Patoloji Uzmanı, SBU, GTF, Gülhane Eğitim ve Araştırma Hastanesi, Tıbbi Patoloji AD
msalihdeveci@gmail.com

KAYNAKLAR

1. Beller, F. (1990). *Development And Anatomy The Breast*. In: Mitchell Jr GW, Basset LW, (Eds). *The female breast and its disorders;1-12*. (1.ed) Baltimore: Williams and Wilkins
2. Faries MB, Bedrosian I, Reynolds C, et al. Active macromolecule uptake by lymph node antigen-presenting cells: a novel mechanism in determining sentinel lymph node status. *Ann Surg Oncol*. 2000;7(2):98-105.
3. Saphir O, Amromin GD. Obscure axillary lymph node metastasis in carcinoma of the breast. *Am J Pathol*. 1948;24(3):726.
4. Sato K, Shigenaga R, Ueda S, et al. Sentinel lymph node biopsy for breast cancer. *J Surg Oncol*. 2007;96(4):322-9.
5. Cabanas RM. An approach for the treatment of penile carcinoma. *Cancer*. 1977;39(2):456-466.
6. Giuliano AE, Kirgan DM, Guenther JM, et al. Lymphatic mapping and sentinel lymphadenectomy for breast cancer. *Ann Surg*. 1994;220(3):391-398.
7. Borgstein PJ, Meijer S, Pijpers R. Intradermal blue dye to identify sentinel lymph node in breast cancer. *Lancet*. 1997;349:1668-1669.
8. Morton DL, Wen DR, Wong JH, et al. Technical details of intraoperative Lymphatic mapping for early stage melanoma. *Arch Surg*. 1992;127(4):392-9.
9. Krag DN, Weaver DL, Alex JC, et al. Surgical resection and radiolocalization of the sentinel lymph node in breast cancer using a gama probe. *Surg Oncol*. 1993;2(6):335-339.
10. Tuncel M, Salancı BV, Bozkurt MF. Sentinel Lymph Node Biopsy: Actual Approaches. *Nucl Med Semin* 2017;3(2):78-88. Doi: 10.4274/nts.008.
11. Chirstensen B, Blichert-Toft M, Siemssen QJ, et al. Reliability of axillary lymph node Scintiphotography. *Br J Surg*. 1980;67(9):667-8.
12. Morton DL, Wen DR, Foshag LJ, et al. Intraoperative lymphatic mapping and selective cervical lymphadenectomy for early-stage melanomas of the head and neck. *J Clin Oncol*. 1993;11(9):1751-6.
13. Lyman GH, Temin S, Edge SB, et al. Sentinel lymph node biopsy for patients with early-stage breast cancer: American Society of Clinical Oncology clinical practice guideline update. *J Clin Oncol*. 2014;32 (13):1365-83. Doi: 10.1200/JCO.2013.54.1177.
14. Karam A, Stempel M, Cody HS, et al. Reoperative sentinel Lymph node biopsy after previous mastectomy. *J Am Coll Surg*. 2008;207(4):543-8. Doi: 10.1016/j.jamcollsurg.2008.06.139.
15. Landy CS, Mc Masters KM, Scoggins Cr. The evolution of the management of regional lymph nodes in melanoma. *J Surg Oncol*. 2007;96(4):316-321.
16. Dunki-Jacobs EM, Callender GG, McMasters LM. Current Management of melanoma. *Curr Probl Surg*. 2013;50(8):351-382. Doi: 10.1067/j.cpsurg.2013.04.001.
17. Wong SL, Balch CM, Hurley P, et al, Sentinel Lymph node biopsy for melanoma. American Society of Clinical Oncology and Society of Surgical Oncology Joint Clinical practice guideline. *Journal of Clinical Oncology*. 2012;30(23):2912-2918. Doi: 10.1200/JCO.2011.40.3519.

18. National Comprehensive Cancer Network (2019). NCCN Clinical Practice Guidelines in Oncology: Melanoma. NCCN. Version 3.2019 October 22, 2019; http://www.nccnrg/professionals/physician_gls/pdf/melanoma.pdf. (Erişim T: Aralık 18, 2019)
19. Gajdos C, Griffith KA, Wong SL, et al. Is there a benefit to sentinel lymph node biopsy in patients with T4 melanoma? *Cancer*. 2009;115(24): 5752-60. Doi: 10.1002/cncr.24660.
20. Shoaib T, Soutar DS, Prosser JE, et al. A suggested method for sentinel node biopsy in squamous cell carcinomas of the head and neck. *Head Neck*. 1999;21(8):728-33.
21. Giammarile F, Bozkurt MF, Cibula D, et al. The EANM clinical and technical guidelines for lymphoscintigraphy and sentinel node localization in gynaecological cancers. *Eur J Nucl Med Mol Imaging*. 2014;41(7):1463-77. Doi: 10.1007/s00259-014-2732-8.
22. Maguire A, Brogi E. Sentinel Lymph Nodes for Breast Carcinoma: An Update on Current Practice. *Histopathology*. 2016;68(1):152-167. Doi: 10.1111/his.12853.
23. American Joint Committee on Cancer. Breast (2017). Amin MB, Edge S, Greene F, et al., eds. *AJCC Cancer Staging Manual*. (8th ed.). New York, NY: Springer
24. Weaver DL. Pathology evaluation of sentinel lymph nodes in breast cancer: protocol recommendations and rationale. *Mod Pathol*. 2010;23(Suppl2):S26-32. Doi: 10.1038/modpathol.2010.36.
25. Rubio IT, Korourian S, Cowan C et al. Use of touch preps for intraoperative diagnosis of sentinel lymph node metastases in breast cancer. *Ann Surg Oncol*. 1998; 5(8): 689-94.
26. Shiver SA, Creager AJ, Geisinger K, et al. Intraoperative analysis of Sentinel Lymph Nodes by imprint cytology for cancer of the breast. *Am J Surg*. 2002;184(5):424-7.
27. Motomura K, Nagumo S, Kamoike Y, et al. Intraoperative imprint cytology for diagnosis of sentinel node metastasis in breast cancer. *Breast Cancer*. 2007;14(4):350-3.
28. Tsuda H. Histologic examination of sentinel lymph nodes: significance of macrometastasis, micrometastasis, and isolated tumor cells. *Breast Cancer*. 2015;22(3):221-9. Doi: 10.1007/s12282-015-0588-9.
29. Silverberg SG. Intraoperative assesment of sentinel lymph nodes in breast. *Histopathology*. 2000; 36 (2):185-6. Doi: 10.1046/j.1365-2559.2000.0866d.x.
30. Teal CB, Tabbara S, Kelly TA. Evaluation of intraoperative scrape cytology for sentinel lymph node biopsy in patients with breast cancer. *Breast J*. 2007; 13(2):155-7.
31. Tamiolakis D, Papadopoulos N, Venizelos J, et al. Intraoperatival touch imprint cytological analysis of sentinel lymph nodes for the presence of metastasis in breast cancer. *Oncologie* 2006; 29 (8-9):372-5. Doi: 10.1159/000094409.
32. Chio YJ, Yun HR, Yoo KE, et al. Intraoperative examination of sentinel lymph nodes by ultrarapid immunohistochemistry in breast cancer. *Jpn J Clin Oncol*. 2006; 36 (8):489-493.
33. Cserni G. Intraoperative analysis of sentinel lymph nodes in breast cancer by one-step nucleic acid amplification. *J Clin Pathol*. 2012; 65(3):193-9.
34. Canda T. Pathological Examination of Sentinel Lymph Node Biopsy. *Nuclear Medicine Seminars*. 2017;3: 89-102.
35. Dogan NU, Dogan S, Favero G, et al. The Basics of Sentinel Lymph Node Biopsy: Anatomical and Pathophysiological Considerations and Clinical Aspects. *J Oncol*. 2019; 29;2019:3415630. Doi: 10.1155/2019/3415630.