

BÖLÜM 10

LARENKS BÖLGESİ TÜMÖRLERİNİN PATOLOJİK ÖZELLİKLERİ



Yavuz GÜNDOĞDU¹

GİRİŞ

Larenks Kanseri (LK) baş-boyun kanserleri içerisinde en sık ikinci kanser türüdür (1). Türkiye de ise kanserler arasında 8. sıradadır ve erkeklerde kanser olgularının %2,6'sını oluşturmaktadır (2). LK erkeklerde kadınlara oranla 6 kat daha fazla gözlenmektedir. (1). LK olguları en sık 5-7. dekatta gözlenir ve vakaların %90'ı 40 yaş ve üzerindedir (3).

Larenkste görülen malignitelerin %85-95'ini epitelden köken alan yassı hücreli kanserler oluşturur (4). Malign tümörlerin farklı davranışları nedeniyle tedavi öncesi histopatolojik tanı çok önemlidir.

LK insidansında azalma gözlenmiştir. Teknolojinin ilerlemesi ile birlikte zamanla tedavi modaliteleri değişmekte ancak yeni çıkan kemoterapi (KT) ajanlara, radyoterapi (RT) modalitelerine ve gelişmiş cerrahiye rağmen hastalığın mortalitesinde, insidansına paralel düşüş gözlenmemektedir (3). Hastalığın etkin tedavisi ancak erken ve doğru histopatolojik tanı, hastalığın yayılımı ve hastanın beklenti ve isteklerinin beraber değerlendirilmesi ve hastaya uygun tedavinin seçilmesi ile mümkündür.

¹ Uzm. Dr., Gebze Merkez Hastanesi, Kulak Burun Boğaz Hastalıkları Kliniği,
yavuzgundogdu_25@hotmail.com



gruba ayrılırlar. Sıklıkla düşük grade'li tümörler gözlenir ve bu tümörler yavaş büyüme eğilimindedir. Tedavide cerrahi tercih edilir. KT'den fayda görmezler (4, 66).

Osteosarkom ise larenks iskeletinden değil endolaringeal yumuşak dokudan köken alır. Çok ender gözlenir.

Yumuşak Doku Malign Tümörleri

Malign fibröz histiositom larenksin en sık yumuşak doku kökenli karsinomudur. Buna rağmen çok nadirdir. En sık glottik bölgede sesil polipoid ülser lezyonlar gözlenirler. Tedavide cerrahi tercih edilir (67).

Fibrosarkomlar RT sekonder gelişen son derece nadir tümörlerdir.

Hematolenfoid Malign Tümörler

Larenksin primer non-Hodking lenfoması çok nadirken sekonder laringeal lenfomalar sıklıkla gözlenmektedir. En sık diffüz büyük B hücreli lenfoma tesbit edilmiştir. Genellikle supraglottik bölgede düzgün yüzeyle submukozal kitleler halinde lezyonlar oluştururlar. Tanı için derin biyopsi alınması gerekmektedir. Tedavide RT tercih edilirken dissemine hastalık varlığında KT tedaviye eklenebilmektedir (68).

SONUÇ

Teknolojinin ilerlemesi ile birlikte yeni KT, RT ve cerrahi tedavi modaliteleri ve bunların kombine kullanımını hastalığın eradikasyonu açısından umut vadettir. Ancak LK insidansındaki azalmaya paralel mortalitesinde bir azalma gözlenmemiştir. Tedavide hastalığın histopatolojik tanısının erken ve doğru konulması, hastalığın evresi, hastanın beklentileri ve tedavi merkezlerinin olanakları göz önüne alınarak olguya en uygun tedavi modalitesinin seçilmesi kritik öneme sahiptir.

KAYNAKLAR

1. Ferlay J. Cancer Incidence and Mortality Worldwide: sources, methods and major patterns in GLOBOCAN 2012. 2015.
2. Şencan İ, Keskinçilic B. Türkiye kanser istatistikleri. *TC Sağlık Bakanlığı Türkiye Halk Sağlığı Kurumu*. 2017.
3. Howlader N, Noone A, Krapcho M, et al. SEER Cancer Statistics Review, 1975–2018, National Cancer Institute. Bethesda, MD. 2018.



4. Barnes L, Tse L, Hunt J, et al. Tumours of the hypopharynx, larynx and trachea. *World Health Organization classification of tumours Pathology and genetics of head and neck tumours*. 2005;2005:111-162.
5. Moore K, Persaud T. The pharyngeal (branchial) apparatus. *Moore KL, Persaud TV The Developing Human Clinically Oriented Embryology 6th ed Philadelphia, Pa: WB Saunders*. 1998:215-256.
6. Mor N, Blitzer A. Functional anatomy and oncologic barriers of the larynx. *Otolaryngologic clinics of North America*. 2015;48 (4):533-545.
7. Flint PW, Haughey BH, Robbins KT, et al. Cummings otolaryngology-head and neck surgery e-book: Elsevier Health Sciences; 2014.
8. Armstrong WB, Netterville JL. Anatomy of the larynx, trachea, and bronchi. *Otolaryngologic Clinics of North America*. 1995;28 (4):685-699.
9. Štiblar-MartinČič D. Histology of laryngeal mucosa. *Acta Oto-laryngologica*. 1997;117 (sup527):138-141.
10. Sternberg SS. Histology for pathologists. *Serous membranes*. 1992:499-514.
11. Sato K, Kurita S, Hirano M. Location of the preepiglottic space and its relationship to the paraglottic space. *Annals of Otolaryngology & Laryngology*. 1993;102 (12):930-934.
12. Sato K. Spaces of the Larynx. *Functional Histoanatomy of the Human Larynx*: Springer; 2018. p. 273-285.
13. Maran G, Gaze M, Wilson J. Stell and Maran's Head and Neck Surgery A. *Plastic and Reconstructive Surgery*. 1995;96 (2):481-482.
14. Volić SV, Klapan I, Seiwerth S, et al. Extracellular matrix of Reinke's space in some pathological conditions. *Acta oto-laryngologica*. 2004;124 (4):505-508.
15. Pressman J. Anatomical studies related to the dissemination of cancer of the larynx. *Trans Am Acad Ophthal Otolaryngol*. 1960;64:628-638.
16. Ballenger JJ, Snow JB. Ballenger's otorhinolaryngology: head and neck surgery: Pmph-usa; 2003.
17. Welsh JJ, Welsh LW, Rizzo Jr TA. Laryngeal spaces and lymphatics: current anatomic concepts. *Annals of Otolaryngology, Rhinology & Laryngology*. 1983;92 (4_suppl):19-31.
18. Janfaza P. *Surgical anatomy of the head and neck*: Harvard University Press; 2011.
19. Yeager VL, Archer CR. Anatomical routes for cancer invasion of laryngeal cartilages. *The laryngoscope*. 1982;92 (4):449-452.
20. Rifai M, Khattab H. Anterior commissure carcinoma: I-histopathologic study. *American journal of otolaryngology*. 2000;21 (5):294-297.
21. Gallo A, Mocetti P, De Vincentiis M, et al. Neoplastic infiltration of laryngeal cartilages: histochemical study. *The Laryngoscope*. 1992;102 (8):891-895.
22. Pauli BU, Memoli VA, Kuettner KE. Regulation of tumor invasion by cartilage-derived anti-invasion factor in vitro. *Journal of the National Cancer Institute*. 1981;67 (1):65-73.
23. Pittam M, Carter R. Framework invasion by laryngeal carcinomas. *Head & neck surgery*. 1982;4 (3):200-208.
24. Harrison D. Significance and means by which laryngeal cancer invades thyroid cartilage. *Annals of Otolaryngology, Rhinology & Laryngology*. 1984;93 (4):293-296.
25. Young N, Abdelmessih MW, Sasaki C. Hajek revisited: a histological examination of the quadrangular membrane. *Annals of Otolaryngology, Rhinology & Laryngology*. 2014;123 (11):765-768.
26. Beitler JJ, Mahadevia PS, Silver CE, et al. New barriers to ventricular invasion in paraglottic laryngeal cancer. *Cancer*. 1994;73 (10):2648-2652.
27. Reidenbach MM. The periepiglottic space: topographic relations and histological organisation. *Journal of anatomy*. 1996;188 (Pt 1):173.
28. Blitzer A. Regional behavioral variations of epidermoid carcinoma of the head and neck: a study in an animal model. *The Laryngoscope*. 1982;92 (11):1219-1238.



29. Mehta N, Tabassum S. Premalignant Conditions of Larynx. 2021.
30. Hellquist H, Ferlito A, Mäkitie AA, et al. Developing Classifications of Laryngeal Dysplasia: The Historical Basis. *Advances in therapy*. 2020;37 (6):2667-2677.
31. Isenberg JS, Crozier DL, Dailey SH. Institutional and comprehensive review of laryngeal leukoplakia. *Annals of Otolaryngology & Rhinology*. 2008;117 (1):74-79.
32. Sadri M, McMahon J, Parker A. Management of laryngeal dysplasia: a review. *European Archives of Oto-Rhino-Laryngology and Head & Neck*. 2006;263 (9):843-852.
33. Hrelec C. Management of Laryngeal Dysplasia and Early Invasive Cancer. *Current Treatment Options in Oncology*. 2021;22 (10):1-11.
34. Steuer CE, El-Deiry M, Parks JR, et al. An update on larynx cancer. *CA: a cancer journal for clinicians*. 2017;67 (1):31-50.
35. Hoffman HT, Porter K, Karnell LH, et al. Laryngeal cancer in the United States: changes in demographics, patterns of care, and survival. *The Laryngoscope*. 2006;116 (S111):1-13.
36. Gao X, Fisher SG, Mohideen N, et al. Second primary cancers in patients with laryngeal cancer: a population-based study. *International Journal of Radiation Oncology* Biology* Physics*. 2003;56 (2):427-435.
37. To-Figueras J, Gené M, Gómez-Catalán J, et al. Microsomal epoxide hydrolase and glutathione S-transferase polymorphisms in relation to laryngeal carcinoma risk. *Cancer letters*. 2002;187 (1-2):95-101.
38. La Vecchia C, Zhang ZF, Altieri A. Alcohol and laryngeal cancer: an update. *European Journal of Cancer Prevention*. 2008;17 (2):116-124.
39. Stenson KM, Brockstein BE, Ross ME. Epidemiology and risk factors for head and neck cancer. *UpToDate*. 2014.
40. Zhu K, Lin R, Zhang Z, et al. Impact of prior cancer history on the survival of patients with larynx cancer. *BMC cancer*. 2020;20 (1):1-11.
41. Baird BJ, Sung CK, Beadle BM, et al. Treatment of early-stage laryngeal cancer: a comparison of treatment options. *Oral oncology*. 2018;87:8-16.
42. Daneshi N, Fararouei M, Mohammadianpanah M, et al. Effects of different treatment strategies and tumor stage on survival of patients with advanced laryngeal carcinoma: a 15-year cohort study. *Journal of cancer epidemiology*. 2018;2018.
43. Meccariello G, Vito A, Cammaroto G, et al. Neck dissection in laryngeal cancer. 2018.
44. Bradford CR, Ferlito A, Devaney KO, et al. Prognostic factors in laryngeal squamous cell carcinoma. *Laryngoscope investigative otolaryngology*. 2020;5 (1):74-81.
45. Mills SE, Carter D, Greenson JK, et al. Sternberg's diagnostic surgical pathology: Lippincott Williams & Wilkins; 2012.
46. Edition S, Edge S, Byrd D. AJCC cancer staging manual. *AJCC cancer staging manual*. 2017.
47. Layland MK, Sessions DG, Lenox J. The influence of lymph node metastasis in the treatment of squamous cell carcinoma of the oral cavity, oropharynx, larynx, and hypopharynx: N0 versus N+. *The Laryngoscope*. 2005;115 (4):629-639.
48. Wang Z, Zeng Q, Li Y, et al. Extranodal Extension as an Independent Prognostic factor in Laryngeal Squamous Cell Carcinoma Patients. *Journal of Cancer*. 2020;11 (24):7196.
49. Mesolella M, Iorio B, Misso G, et al. Role of perineural invasion as a prognostic factor in laryngeal cancer. *Oncology letters*. 2016;11 (4):2595-2598.
50. Balci MG, Tayfur M, BaSaK T. The Relationship between Perineural Invasion, Peritumoural Inflammation, and Cervical Lymph Node Metastases in Laryngeal Squamous Cell Carcinoma. *Journal of Clinical & Diagnostic Research*. 2018;12 (9).
51. Yılmaz T, Hoşal A, Gedikoğlu G, et al. Prognostic significance of histopathological parameters in cancer of the larynx. *European archives of oto-rhino-laryngology*. 1999;256 (3):139-144.
52. Samir A. Prognostic Factors in Advanced Laryngeal Cancer: An Egyptian experience. *Egyptian Journal of Ear, Nose, Throat and Allied Sciences*. 2021;22 (22):1-9.



53. Yilmaz T, Gedikoglu G, Çelik A, et al. Prognostic significance of Langerhans cell infiltration in cancer of the larynx. *Otolaryngology—Head and Neck Surgery*. 2005;132 (2):309-316.
54. Cavaliere M, Bisogno A, Scarpa A, et al. Biomarkers of laryngeal squamous cell carcinoma: a review. *Annals of Diagnostic Pathology*. 2021;54:151787.
55. Poon C, Stenson K. Overview of the diagnosis and staging of head and neck cancer. *UptoDate (online)*, Fev. 2012.
56. Jayakrishnan TT, Abel S, Interval E, et al. Patterns of Care and Outcomes in Verrucous Carcinoma of the Larynx Treated in the Modern Era. *Frontiers in Oncology*. 2020;10:1241.
57. Jumaily M, Faraji F, Zhang D, et al. Basaloid squamous cell carcinoma of the larynx: a national cancer database analysis. *Otolaryngology—Head and Neck Surgery*. 2019;160 (5):847-854.
58. Ereno C, López JL, Sánchez JM, et al. Papillary squamous cell carcinoma of the larynx. *The Journal of Laryngology & Otology*. 2001;115 (2):164-166.
59. Chen L, Chen Q, Li C, et al. Clinical Analysis of Laryngeal Spindle Cell Carcinoma. *ORL*. 2020;82 (5):1-8.
60. Mohammad M, Wilcox R. Morphologic mimicry: acantholytic squamous cell carcinoma in nondermal locations—a literature review. *Annals of the New York Academy of Sciences*. 2018;1434 (1):102-108.
61. Dubal PM, Unsal AA, Echanique KA, et al. Laryngeal adenosquamous carcinoma: A population-based perspective. *The Laryngoscope*. 2016;126 (4):858-863.
62. Alimoglu Y, Mamanov M, Kaytaz A. High-grade mucoepidermoid carcinoma of the larynx. *Journal of Craniofacial Surgery*. 2011;22 (6):e62-e64.
63. Marchiano E, Chin OY, Fang CH, et al. Laryngeal adenoid cystic carcinoma: a systematic review. *Otolaryngology—Head and Neck Surgery*. 2016;154 (3):433-439.
64. Ferlito A, Silver CE, Bradford CR, et al. Neuroendocrine neoplasms of the larynx: an overview. *Head & Neck: Journal for the Sciences and Specialties of the Head and Neck*. 2009;31 (12):1634-1646.
65. Strosberg C, Ferlito A, Triantafyllou A, et al. Update on neuroendocrine carcinomas of the larynx. *American journal of clinical pathology*. 2019;152 (6):686-700.
66. Rüller K, Sittel C, Kölmel JC, et al. Organ Preservation Strategies in Laryngeal Chondrosarcoma. *The Laryngoscope*. 2021.
67. Aljariri AA, Alsaleh AR, Al-Enazi HA, et al. Glottic Malignant Fibrous Histiocytoma: A Case Report and Literature Review. *Case reports in oncology*. 2021;14 (1):641-646.
68. Dewan K, Campbell R, Damrose EJ. Hematologic malignancies of the larynx: A single institution review. *American journal of otolaryngology*. 2019;40 (6):102285.