

Bölüm 3

BAŞ BOYUN TÜMÖRLERİ PATOLOJİSİ

Burçin PEHLİVANOĞLU¹

GİRİŞ

Baş boyun tümörleri (BBT) terimi oral kavite, farinks, larinks, paranasal sinüsler, nazal kavite ve tükürük bezlerinden köken alan tümörleri temsil etmekte olup BBT'lerin çok büyük bir kısmı skuamöz hücreli karsinom morfolojisindedir.

Bu bölümde BBT'lerin histopatolojik değerlendirmesi ve raporlanması esnasında dikkat edilmesi gereken hususlar incelenecek ve sık görülen tümörlerin özelliklerine değinilecektir.

BAŞ BOYUN KARSİNOMLARININ RAPORLAMASINDA DİKKAT EDİLECEK HUSUSLAR

Baş boyun yerleşimli karsinomlar nedeniyle yapılan rezeksiyonların patoloji raporunda doğru evreleme ve prognoz öngörüsü için bazı temel parametrelere mutlaka yer verilmelidir (1, 2). Tümörün yerleşim yeri, tipi, diferansiyasyon derecesi, büyüme paterni, en büyük çapı, invazyon derinliği, lenfovasküler invazyon durumu, perinöral invazyon durumu, çevre olağan doku invazyonu durumu ve cerrahi sınırların durumu mutlaka yazılmalıdır. Lenf nodu diseksiyonu yapılmışsa alındığı yer, metastatik ve reaktif lenf nodlarının sayısı, en büyük metastatik odağın çapı ve ekstrakapsüler yayılım olup olmadığı belirtilmelidir.

SKUAMÖZ HÜCRELİ KARSİNOM: MORFOLOJİK ÖZELLİKLERİ

Baş boyun bölgesinde en sık görülen malign tümörler, baş boyun mukozasının büyük kısmını döşeyen skuamöz epitelden köken alan skuamöz hücreli karsinom (SHK) morfolojisindedir.

¹ Uzm. Dr. Burçin Pehlivanoglu, Adıyaman Üniversitesi Eğitim Araştırma Hastanesi, Tıbbi Patoloji Bölümü, Adıyaman, Türkiye burcinp@yahoo.com

gereken antitelerin sayısının artmasına neden olur (41). İmmunohistokimyasal olarak S100, HMB45, melan A ve SOX10 pozitifliğinin ortaya konması tanıda yardımcıdır. Ayrıca, olguların bir kısmında immunohistokimyasal olarak CD117 pozitifliği görülebileceği bildirilmiştir (44).

Deri melanomlarında kullanılan tümör kalınlığı, ülserasyon vb. prognostik parametreler MM olgularında prognoz öngörüsü için geçerli değildir. >60 yaş, tanı anındaki evre ve lenf nodu metastazı varlığı baş boyun bölgesi MM'lerinde kötü prognozla ilişkilendirilmektedir (45). Bununla birlikte; bu konuda sınırlı veri mevcut olup MM'de prognostik faktörlerin belirlenmesi için yeni çalışmalara ihtiyaç vardır.

SONUÇ

BBT'ler birçok farklı antiteyi barındıran heterojen bir tümör grubudur. BBT'lerin çok büyük kısmını SHK oluşturmakla birlikte SHK olguları da dahil olmak üzere BBT'ler etyoloji, yerleşim yeri, histolojik alt tip gibi klinik ve patolojik prognostik faktörlerin etkisiyle farklı klinik davranış sergilemektedir.

Anahtar Kelimeler: baş boyun, tümör, patoloji

KAYNAKLAR

1. Helliwell TR, Giles TE. Pathological aspects of the assessment of head and neck cancers: United Kingdom National Multidisciplinary Guidelines. *J Laryngol Otol* 2016;130:S59-s65.
2. King B, Corry J. Pathology reporting in head and neck cancer--snapshot of current status. *Head Neck* 2009;31:227-231; discussion 232-223.
3. Reyes-Gibby CC, Anderson KO, Merriman KW, Todd KH, Shete SS, Hanna EY. Survival patterns in squamous cell carcinoma of the head and neck: pain as an independent prognostic factor for survival. *J Pain* 2014;15:1015-1022.
4. Bossi P, Alfieri S, Strojjan P, Takes RP, Lopez F, Makitie A, Saba NF, et al. Prognostic and predictive factors in recurrent and/or metastatic head and neck squamous cell carcinoma: A review of the literature. *Crit Rev Oncol Hematol* 2019;137:84-91.
5. Mirabile A, Miceli R, Calderone RG, Locati L, Bossi P, Bergamini C, Granata R, et al. Prognostic factors in recurrent or metastatic squamous cell carcinoma of the head and neck. *Head Neck* 2019;41:1895-1902.
6. Argiris A, Li Y, Forastiere A. Prognostic factors and long-term survivorship in patients with recurrent or metastatic carcinoma of the head and neck. *Cancer* 2004;101:2222-2229.
7. EL-Naggar AK, Chan JKC, Grandis JR, Takata T, Slootweg PJ. 4th Edition of the World Health Organization Classification of Head and Neck Tumours. IARC, Lyon. 2017.
8. Stelow EB, Bishop JA. Update from the 4th Edition of the World Health Organization Classification of Head and Neck Tumours: Tumors of the Nasal Cavity, Paranasal Sinuses and Skull Base. *Head Neck Pathol* 2017;11:3-15.
9. Bishop JA, Guo TW, Smith DF, Wang H, Ogawa T, Pai SI, Westra WH. Human papillomavirus-related carcinomas of the sinonasal tract. *Am J Surg Pathol* 2013;37:185-192.
10. El-Mofty SK, Lu DW. Prevalence of high-risk human papillomavirus DNA in nonkeratinizing (cylindrical cell) carcinoma of the sinonasal tract: a distinct clinicopathologic and molecular

- disease entity. *Am J Surg Pathol* 2005;29:1367-1372.
11. Larque AB, Hakim S, Ordi J, Nadal A, Diaz A, del Pino M, Marimon L, et al. High-risk human papillomavirus is transcriptionally active in a subset of sinonasal squamous cell carcinomas. *Mod Pathol* 2014;27:343-351.
 12. Jo VY, Mills SE, Stoler MH, Stelow EB. Papillary squamous cell carcinoma of the head and neck: frequent association with human papillomavirus infection and invasive carcinoma. *Am J Surg Pathol* 2009;33:1720-1724.
 13. Zur KB, Brandwein M, Wang B, Som P, Gordon R, Urken ML. Primary description of a new entity, renal cell-like carcinoma of the nasal cavity: van Meegeren in the house of Vermeer. *Arch Otolaryngol Head Neck Surg* 2002;128:441-447.
 14. Frierson HF, Jr., Mills SE, Fechner RE, Taxy JB, Levine PA. Sinonasal undifferentiated carcinoma. An aggressive neoplasm derived from schneiderian epithelium and distinct from olfactory neuroblastoma. *Am J Surg Pathol* 1986;10:771-779.
 15. French C. NUT midline carcinoma. *Nat Rev Cancer* 2014;14:149-150.
 16. Lewis JT, Oliveira AM, Nascimento AG, Schembri-Wismayer D, Moore EA, Olsen KD, Garcia JG, et al. Low-grade sinonasal sarcoma with neural and myogenic features: a clinicopathologic analysis of 28 cases. *Am J Surg Pathol* 2012;36:517-525.
 17. Rooper LM, Huang SC, Antonescu CR, Westra WH, Bishop JA. Biphenotypic sinonasal sarcoma: an expanded immunoprofile including consistent nuclear beta-catenin positivity and absence of SOX10 expression. *Hum Pathol* 2016;55:44-50.
 18. Wang X, Bledsoe KL, Graham RP, Asmann YW, Viswanatha DS, Lewis JE, Lewis JT, et al. Recurrent PAX3-MAML3 fusion in biphenotypic sinonasal sarcoma. *Nat Genet* 2014;46:666-668.
 19. Stelow EB, Wenig BM. Update From The 4th Edition of the World Health Organization Classification of Head and Neck Tumours: Nasopharynx. *Head Neck Pathol* 2017;11:16-22.
 20. Sun X, Su S, Chen C, Han F, Zhao C, Xiao W, Deng X, et al. Long-term outcomes of intensity-modulated radiotherapy for 868 patients with nasopharyngeal carcinoma: an analysis of survival and treatment toxicities. *Radiother Oncol* 2014;110:398-403.
 21. Yim EK, Park JS. The role of HPV E6 and E7 oncoproteins in HPV-associated cervical carcinogenesis. *Cancer Res Treat* 2005;37:319-324.
 22. Template for Reporting Results of Biomarker Testing of Specimens From Patients With Tumors of the Head and Neck. <https://documents.cap.org/protocols/cp-biomarker-head-neck-2017-v1000.pdf> Erişim tarihi: 21.08.2019.
 23. Weinberger PM, Yu Z, Haffty BG, Kowalski D, Harigopal M, Brandsma J, Sasaki C, et al. Molecular classification identifies a subset of human papillomavirus--associated oropharyngeal cancers with favorable prognosis. *J Clin Oncol* 2006;24:736-747.
 24. Fakhry C, Lacchetti C, Rooper LM, Jordan RC, Rischin D, Sturgis EM, Bell D, et al. Human Papillomavirus Testing in Head and Neck Carcinomas: ASCO Clinical Practice Guideline Endorsement of the College of American Pathologists Guideline. *J Clin Oncol* 2018;36:3152-3161.
 25. Muller S. Update from the 4th Edition of the World Health Organization of Head and Neck Tumours: Tumours of the Oral Cavity and Mobile Tongue. *Head Neck Pathol* 2017;11:33-40.
 26. Su HH, Chu ST, Hou YY, Chang KP, Chen CJ. Spindle cell carcinoma of the oral cavity and oropharynx: factors affecting outcome. *J Chin Med Assoc* 2006;69:478-483.
 27. Spector ME, Wilson KF, Light E, McHugh JB, Bradford CR. Clinical and pathologic predictors of recurrence and survival in spindle cell squamous cell carcinoma. *Otolaryngol Head Neck Surg* 2011;145:242-247.
 28. Alonso JE, Kuan EC, Arshi A, St John MA. A population-based analysis of verrucous carcinoma of the oral cavity. *Laryngoscope* 2018;128:393-397.
 29. Ryttonen AE, Hirvikoski PP, Salo TA. Lymphoepithelial carcinoma: two case reports and a systematic review of oral and sinonasal cases. *Head Neck Pathol* 2011;5:327-334.
 30. Gerry D, Fritsch VA, Lentsch EJ. Spindle cell carcinoma of the upper aerodigestive tract: an analysis of 341 cases with comparison to conventional squamous cell carcinoma. *Ann Otol Rhinol Laryngol* 2014;123:576-583.
 31. Orita Y, Gion Y, Tachibana T, Ikegami K, Marunaka H, Makihara S, Yamashita Y, et al. Laryn-

- geal squamous cell papilloma is highly associated with human papillomavirus. *Jpn J Clin Oncol* 2018;48:350-355.
32. Lewis JS, Jr., Ferlito A, Gnepp DR, Rinaldo A, Devaney KO, Silver CE, Travis WD. Terminology and classification of neuroendocrine neoplasms of the larynx. *Laryngoscope* 2011;121:1187-1193.
 33. Gale N, Poljak M, Zidar N. Update from the 4th Edition of the World Health Organization Classification of Head and Neck Tumours: What is New in the 2017 WHO Blue Book for Tumours of the Hypopharynx, Larynx, Trachea and Parapharyngeal Space. *Head Neck Pathol* 2017;11:23-32.
 34. Katabi N, Gomez D, Klimstra DS, Carlson DL, Lee N, Ghossein R. Prognostic factors of recurrence in salivary carcinoma ex pleomorphic adenoma, with emphasis on the carcinoma histologic subtype: a clinicopathologic study of 43 cases. *Hum Pathol* 2010;41:927-934.
 35. Bradley PJ. 'Metastasizing pleomorphic salivary adenoma' should now be considered a low-grade malignancy with a lethal potential. *Curr Opin Otolaryngol Head Neck Surg* 2005;13:123-126.
 36. Brill LB, 2nd, Kanner WA, Fehr A, Andren Y, Moskaluk CA, Loning T, Stenman G, et al. Analysis of MYB expression and MYB-NFIB gene fusions in adenoid cystic carcinoma and other salivary neoplasms. *Mod Pathol* 2011;24:1169-1176.
 37. Vila L, Liu H, Al-Quran SZ, Coco DP, Dong HJ, Liu C. Identification of c-kit gene mutations in primary adenoid cystic carcinoma of the salivary gland. *Mod Pathol* 2009;22:1296-1302.
 38. Cooper JS, Porter K, Mallin K, Hoffman HT, Weber RS, Ang KK, Gay EG, et al. National Cancer Database report on cancer of the head and neck: 10-year update. *Head Neck* 2009;31:748-758.
 39. Iguchi H, Wada T, Matsushita N, Oishi M, Yamane H. Anatomic distribution of hematolymphoid malignancies in the head and neck: 7 years of experience with 122 patients in a single institution. *Acta Otolaryngol* 2012;132:1224-1231.
 40. Brown NA, Elenitoba-Johnson KS. Update from the 4th Edition of the World Health Organization Classification of Head and Neck Tumours: Hematolymphoid Tumours. *Head Neck Pathol* 2017;11:96-109.
 41. Williams MD. Update from the 4th Edition of the World Health Organization Classification of Head and Neck Tumours: Mucosal Melanomas. *Head Neck Pathol* 2017;11:110-117.
 42. Rivera RS, Nagatsuka H, Gunduz M, Cengiz B, Gunduz E, Siar CH, Tsujigiwa H, et al. C-kit protein expression correlated with activating mutations in KIT gene in oral mucosal melanoma. *Virchows Arch* 2008;452:27-32.
 43. Hayward NK, Wilmott JS, Waddell N, Johansson PA, Field MA, Nones K, Patch AM, et al. Whole-genome landscapes of major melanoma subtypes. *Nature* 2017;545:175-180.
 44. Torres-Cabala CA, Wang WL, Trent J, Yang D, Chen S, Galbincea J, Kim KB, et al. Correlation between KIT expression and KIT mutation in melanoma: a study of 173 cases with emphasis on the acral-lentiginous/mucosal type. *Mod Pathol* 2009;22:1446-1456.
 45. Chan RC, Chan JY, Wei WI. Mucosal melanoma of the head and neck: 32-year experience in a tertiary referral hospital. *Laryngoscope* 2012;122:2749-2753.