

Bölüm 13

TİMOMA VE TİMİK KARSİNOMLAR

Abdilkerim OYMAN¹

Timustan kaynaklanan timik epitelyal tümörler, timoma ve timik karsinomların içinde bulunduğu heterojen bir hastalık grubudur. Timomalar genel populasyonda az görülse de, anterior mediasten tümörlerinin en sık görülen neoplazmlarıdır. Timik karsinomlar, timomalara göre daha az sıklıkla görülmesine karşılık, 5 yıllık sağ kalımları daha kötüdür(1). Lenfoepitelyal doku olan timusun tümörlerinde Shields'in sınıflaması kullanılmaktadır(2). Tablo-1'de timik tümörlerin sınıflaması gösterilmiştir.

Tablo 1

Epitelyal Hücreli Tümörler

Timoma

Tip A (İğsi hücreli, medüller)

Tip AB (Mikst)

Tip B1 (Kortikal hakim, lenfositten zengin organoid)

Tip B2 (Kortikal)

Tip B3 (Epitelyal)

Nöroendokrin Hücreli Tümörler

Timik karsinoid, iyi direransiyeli

Atipik timik karsinoid orta diferansiyeli

Küçük hücreli karsinom, kötü diferansiyeli

Diğer Tipler

Lenfoid stroma ile birlikte mikronodüler timoma

Metaplastik timoma

Mikroskopik timoma

Sklerozan timoma

Adipöz Doku Tümörleri

Timolipoma

Timoliposarkoma

Kombine timoma ve timik karsinom

Timik karsinom

Çeşitli Özellikteki Tümörler

Timik hemanjiom

Nöroblastoma ve ganglionöroblastoma

Primer malign melanoma

Miyoid tümörler

Lenfoid tümörler

¹ Uzman Dr., Ümraniye Eğitim ve Araştırma Hastanesi Tıbbi Onkoloji, dr_oyman@hotmail.com

alınmıştır. Sisplatin/doksorubisin/vinkristin/siklofosfamid rejimi de etkili olmakla birlikte daha toksik seyretmektedir(25).

TAKİP

Timik karsinomlar ve timomalarda primer tedaviden sonra 2 yıl süreyle 6 ayda bir, sonrasında yılda bir 10 yıl boyunca toraks bilgisayarlı tomografisi takibi önerilmektedir(26).

KAYNAKLAR

1. Klein L, Kyewski B, Allen PM, et al. Positive and negative selection of the T cell repertoire: what thymocytes see (and don't see). *Rev Immunol.* 2014;14<6>:377-391
2. Shields TW. Thymic tumors. In: Shields TW, Feins RH, ed. *General Thoracic Surgery*, Philadelphia: Wolter Kluwer; 2009:2323-2362.
3. Detterbeck FC, Parsons AM. Management of stage I and II thymoma. *Thorac Surg Clin* 2011;21:59-67, vi-vii.
4. Engels EA. Epidemiology of thymoma and associated malignancies. *J Thorac Oncol* 2010;5:S260-265
5. Bernard C, Frih H, Pasquet F, et al. Thymoma associated with autoimmune diseases: 85 cases and literature review. *Autoimmun Rev* 2016;15:82-92.
6. Lewis JE, Wick MR, Scheithauer BW, et al. Thymoma. A clinicopathologic review. *Cancer* 1987;60:2727-2743.
7. Masaoka A. Staging system of thymoma. *J Thorac Oncol* 2010;5:S304-312.
8. Amin MB, Edge SB, Greene FL, et al. *AJCC Cancer Staging Manual*, 8th edition: Springer International Publishing; 2017:1-1032.
9. Rosai J. Histological typing of tumours of the thymus. In: WHO International histological classification of tumours. Rosai J. Histological typing of tumours of the thymus. In: WHO International histological classification of tumours, 2nd ed. New York: SpringerVerlag, 1999:5-15.
10. Quagliano PV. Thymic carcinoma: case reports and review. *J Thorac Imaging* 1996; 11:66.
11. Tomiyama N, Johkoh T, Mihara N, et al. Using the World Health Organization Classification of thymic epithelial neoplasms to describe CT findings. *AJR Am J Roentgenol* 2002; 179:881.
12. Abdel Razek AA, Khairy M, Nada N. Diffusion-weighted MR imaging in thymic epithelial tumors: correlation with World Health Organization classification and clinical staging. *Radiology* 2014; 273:268.
13. Marom EM. Advances in thymoma imaging. *J Thorac Imaging* 2013; 28:69.
14. Treglia G, Sadeghi R, Giovannella L, et al. Is (18)F-FDG PET useful in predicting the WHO grade of malignancy in thymic epithelial tumors? A meta-analysis. *Lung Cancer* 2014; 86:5.
15. Seki N, Sakamoto S, Karube Y, et al. ¹⁸F-fluorodeoxyglucose positron emission tomography for evaluation of thymic epithelial tumors: utility for World Health Organization classification and predicting recurrence-free survival. *Ann Nucl Med* 2014; 28:257.
16. Wright CD. Management of thymomas. *Crit Rev Oncol Hematol*. 2008;65:109-120.

17. Loehrer PJ Sr, Chen M, Kim K, et al. Cisplatin, doxorubicin, and cyclophosphamide plus thoracic radiation therapy for limited-stage unresectable thymoma: an intergroup trial. *J Clin Oncol.* 1997;15:3093-3099.
18. Girard N, Lal R, Wakelee H, et al. Chemotherapy definitions and policies for thymic malignancies. *J Thorac Oncol.* 2011;6(7 Suppl 3):S1749-S1755.
19. Loehrer PJ Sr, Kim K, Aisner SC, et al. Cisplatin plus doxorubicin plus cyclophosphamide in metastatic or recurrent thymoma: final results of an intergroup trial. The Eastern Cooperative Oncology Group, Southwest Oncology Group, and Southeastern Cancer Study Group. *J Clin Oncol.* 1994;12:1164-1168.
20. Loehrer PJ Sr, Jiroutek M, Aisner S, et al. Combined etoposide, ifosfamide, and cisplatin in the treatment of patients with advanced thymoma and thymic carcinoma: an intergroup trial. *Cancer.* 2001;91:2010-2015.
21. Giaccone G, Ardizzone A, Kirkpatrick A, et al. Cisplatin and etoposide combination chemotherapy for locally advanced or metastatic thymoma: a phase II study of the European Organization for Research and Treatment of Cancer Lung Cancer Cooperative Group. *J Clin Oncol.* 1996;14:814-820.
22. Travis WD, Brambilla E, Burke AP, et al. WHO Classification of Tumours of the Lung, Pleura, Thymus and Heart. Fourth edition. WHO Classification of Tumours. Volume 7. Vol. 7:2015
23. Litvak AM, Woo K, Hayes S, et al. Clinical characteristics and outcomes for patients with thymic carcinoma: evaluation of Masaoka staging. *J Thorac Oncol* 2014;9:1810-1815.
24. Korst RJ, Kansler AL, Kristos PJ, Mandal S. Adjuvant radiotherapy for thymic epithelial tumors: a systematic review and meta-analysis. *Ann Thorac Surg* 2009;87:1641-1647.
25. Komatsu Y, Koizumu T, Tanabe T, et al. Salvage chemotherapy with carboplatin and paclitaxel for cisplatin-resistant thymic carcinoma—three cases. *Anticancer Res* 2006;26:4851-4855.
26. Marom EM. Advances in thymoma. *J Thorac Oncol* 2010;5:S296-303.