

leukaemia/lymphoma. In our patient, PDGFR-A and B were found to be negative and we could not test for FGFR-1 and ETV6-LYN gene fusion. We know that leukaemia and other haematological malignancies may develop after RAI treatment. However, we present this case because there have been no cases reported in the literature where the patient developed myeloid neoplasia and T-cell lymphoblastic lymphoma associated with eosinophilia after RAI. It should be kept in mind that although these genetic abnormalities and RAI may be a possible cause, the patient may have other genetic risk factors or history accounting for the development of multiple malignancies.

Conflict of Interest: No conflict of interest was declared by the authors.

REFERENCES

1. Davies L, Welch HG. Increasing incidence of thyroid cancer in the United States, 1973–2002. *JAMA*. 2006;295 (18):2164–2167.
2. Gilliland FD, Hunt WC, Morris DM, Key CR. Prognostic factors for thyroid carcinoma. A population-based study of 15,698 cases from the Surveillance, Epidemiology and End Results (SEER) program 1973–1991. *Cancer*. 1997;79(3):564–573.
3. Lu CH1, Lee KD, Chen PT, Chen CC, Kuan FC, Huang CE et al. Second primary malignancies following thyroid cancer: a population-based study in Taiwan. *Eur J Endocrinol*. 2013;169(5):577–585
4. Iyer NG1, Morris LG, Tuttle RM, Shaha AR, Ganly I. Rising incidence of second cancers in patients with low-risk (T1N0) thyroid cancer who receive radioactive iodine therapy. *Cancer*. 2011;117 (19):4439–4446.
5. Telford N1, Alexander S2, McGinn OJ2, Williams M3, Wood KM4, Bloor A5 et al. Myeloproliferative neoplasm with eosinophilia and T-lymphoblastic lymphoma with ETV6–LYN gene fusion. *Blood Cancer J*. 2016 Apr 8;6:e412.
6. Moita F1, Bogalho I, Alaiz H, Parreira J, Frade MJ, Nunes A et al. Clonal Hypereosinophilia with ETV6 Rearrangement Evolving to T-Cell Lymphoblastic Lymphoma: A Case Report and Review of the Literature. *Case Rep Hematol*. 2013;2013:652745.
7. Teng CJ1, Hu YW1, Chen SC1, Yeh CM1, Chiang H1, Chen TJ1, Liu CJ2. Use of Radioactive Iodine for Thyroid Cancer and Risk for Second Primary Malignancy: A Nationwide Population-Based Study. *J Natl Cancer Inst*. 2015 Nov 3;108(2).
8. Im M, Lee JK, Hong YI, Hong SI, Kang JH, Na II et al. Four Cases of Hematologic Malignancy Following Radioactive Iodine Therapy for Thyroid Cancer. *Korean J Lab Med*. 2008 Dec;28(6):425-9.
9. Schiavinato A1, Piva B1, Pantano G1, Cornoldi P1, Nabergoj M2, Plebani M1. A case of eosinophilic disorder that evolved in acute lymphoblastic leukemia. *Ann J Hematol*. 2016 Jan;91(1):167-8.
10. Parasole R1, Pizzuzello F, De Matteo A, Maisto G, Castelli L, Errico ME et al. Hypereosinophilia in childhood acute lymphoblastic leukaemia at diagnosis: report of 2 cases and review of the literature. *Ital J Pediatr*. 2014 Apr;106:36.

Uncorrected Proof