

# Coexistence of thyroid hemiagenesis, nodular goitre and papillary carcinoma

## Tiroid hemiangenez, nodüler guatr ve papiller karsinom birlikteliği

Gülden Yenice Karatağ, M.D.,<sup>1</sup> Zeynep Kırkalli Albayrak, M.D.,<sup>2</sup> Hülya Kapran Önay, M.D.,<sup>2</sup>  
Ozan Karatağ, M.D.,<sup>3</sup> Önder Peker, M.D.<sup>4</sup>

<sup>1</sup>Department of Radiology, Çanakkale State Hospital, Çanakkale, Turkey

<sup>2</sup>Neoson Imaging Center, Istanbul, Turkey

<sup>3</sup>Department of Radiology, Medicine Faculty of Çanakkale Onsekiz Mart University, Çanakkale, Turkey

<sup>4</sup>Nişantaşı Pathology Group, İstanbul, Turkey

In this article, we report a very rare case of left thyroid lobe with agenesis, adenomatous hyperplasia and coexisting papillary carcinoma of the right lobe. A 59-year-old asymptomatic woman with no previous thyroid surgery was evaluated sonographically. Ultrasonography and scintigraphy revealed an agenesis in the left lobe and multiple right lobe nodules with one of them diagnosed with papillary carcinoma.

**Key Words:** Fine needle aspiration biopsy; papillary thyroid carcinoma; scintigraphy; thyroid hemiagenesis; ultrasound.

Bu makalede çok nadir bir agenezili sol tiroid lobu, adenomatöz hiperplazi ve sağ lobda papiller karsinom birlikteliği olgusu sunuldu. Daha önce tiroid cerrahisi geçirmemiş 59 yaşında asemptomatik bir kadın hasta sonografi ile değerlendirildi. Ultrasonografi ve sintigrafide sol lobda agenezi ve sağ lobda birine papiller karsinom tanısı konulan çoklu nodül tespit edildi.

**Anahtar Sözcükler:** İnce iğne aspirasyon biyopsisi; papiller tiroid karsinomu; sintigrafi; tiroid hemiangenezi; ultrason.

Thyroid hemiagenesis (TH) resulting from the failure of embryologic development of one thyroid lobe is a very rare anomaly. Thyroid ultrasound studies report the prevalence of this morphological abnormality at between 0.02-0.05% in healthy children.<sup>[1,2]</sup> It is usually discovered incidentally during the investigation of accompanying thyroid disorders or routine medical checkup. The coexistence of TH and papillary carcinoma is an extremely rare entity.

We report a case of left thyroid lobe agenesis and accompanying adenomatous hyperplasia and papillary carcinoma of the right lobe which were all incidental findings in a patient.

### CASE REPORT

A 59-year-old female without any complaints and no history of previous thyroid surgery was evaluated sonographically during a routine medical checkup. Serum thyroid hormone (T<sub>3</sub>, T<sub>4</sub>), thyroid