

Simultaneous Detection of **B-Cell Chronic Lymphocytic** Leukemia and Colon Adenocarcinoma in the Same **Mesenteric Lymph Node**

Aynı Mezenterik Lenf Bezinde B-Hücreli Kronik Lenfositik Lösemi ve Kolon Adenokanserinin Eş Zamanlı Saptanması

computed tomography (CT) scan was done, which showed a mass of 6.5x5.5 cm located in the ascending colon and hepatic flexura causing a wall thickening of 20 mm. The thoracic CT was normal. A complete colonoscopy showed an ulcerovegetative lesion in the transverse colon narrowing the lumen and multiple biopsies were performed, which revealed a well-differentiated colon adenocarcinoma. During the surgical removal of the tumor, 4 peripancreatic and 48

50-year-old male patient presented with microcytic

1anemia (hemoglobin: 10.2 g/dL, hematocrit: 33.8%, mean corpuscular volume: 64 fL), leukocytosis of 19.7 x 109/L

(lymphocytes of 51.2%, 10x10⁹/L), and normal platelet count. During the etiological work-up of his anemia an abdominal

of small lymphocytes in the same mesenteric lymph node (A: hematoxylin and eosin, 40x; B: hematoxylin and eosin, 400×).

Figure 1: Adenocarcinoma metastasis and diffuse infiltration

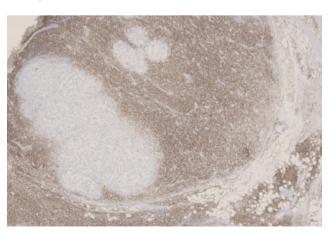


Figure 2: CD20 is positive in diffuse lymphoid infiltration, whereas it is negative in metastatic glands $(40 \times)$.

Keywords: Chronic lymphocytic leukemia, CLL, Colon adenocarcinoma

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Received/Geliş tarihi : November 06, 2012 Accepted/Kabul tarihi: November 07, 2012 mesenteric lymph nodes and the perilymphatic fat tissue were resected, which all had diffuse infiltration of atypical lymphocytes. In one mesenteric lymph node, both invasion of the colon adenocarcinoma and atypical lymphocytes were demonstrated (Figures 1A and 1B). The atypical lymphocytes were immunohistochemically positive for CD20 (Figure 2), Bcl-2, CD23, and CD5 consistent with B-cell chronic lymphocytic leukemia/small lymphocytic lymphoma (B-CLL/SLL). After the patient was referred to the hematology department, flow cytometry was performed from the peripheral blood, which was also consistent with B-CLL/SLL. He had early-stage CLL and so we decided to monitor the disease; the patient was referred to the medical oncology department for the treatment of colon adenocarcinoma.

Patients with CLL have more than twice the risk of developing a second cancer, and this increased incidence is attributed to disease- or therapy-related immunosuppression [1]. The most common types of cancers developing in CLL patients are skin cancers, soft-tissue sarcoma, colorectal and lung carcinoma [2]. The incidental detection of CLL/SLL based on the histological evaluation of the lymph nodes resected for rectal adenocarcinoma is a rare entity [3,4].

The synchronous diagnosis of B-CLL/SLL and colon adenocarcinoma in our case is most probably coincidental. However in the synchronous presentation of these two malignancies, an epidemiological association has been noted [5], and this synchronous relationship can also be explained in terms of the immunosuppression over a prolonged period of time.

Conflict of Interest Statement

All authors have no conflict of interest to declare.

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