

Association of gastrointestinal stromal tumor and acute myeloid leukemia preceded by myelodysplastic syndrome with refractory anemia

Mehmet Sonmez¹, Mehmet Arslan², Umit Cobanoglu³, Halil Kavgaci⁴, Hasan Mucahit Ozbas⁵, Fazıl Aydın⁴, Ercument Ovali¹, and Serdar Bedii Omay¹

¹Department of Hematology, ²Department of Gastroenterology, ³Department of Pathology, ⁴Department of Oncology, and ⁵Department of Internal Medicine, Karadeniz Technical University, School of Medicine, Trabzon, Turkey

ABSTRACT

Gastrointestinal stromal tumors (GISTs) are the most common mesenchymal tumors of the gastrointestinal tract. GISTs are believed to be related to mutational activation of receptor tyrosine kinases, KIT, or platelet-derived growth factor receptor-alpha. The coexistence of GISTs with other neoplasms has been extensively addressed in the literature. The most common second neoplasms are colorectal cancer, prostate cancer, and neoplasms derived from lymphoid tissue. In this case report, we describe a patient affected by GIST and acute myeloid leukemia preceded by myelodysplastic syndrome with refractory anemia. The clinicopathological characteristics of the patient are discussed and the literature is reviewed.

Key words: gastrointestinal stromal tumor, acute myeloid leukemia, myelodysplastic syndrome.

Correspondence to: Mehmet Sonmez, MD, Department of Hematology, Karadeniz Technical University, School of Medicine, Trabzon 61080, Turkey.
Tel +90-462-377 58 48;
fax +90-462-328 07 04;
e-mail: mesonmez@yahoo.com

Received January 14, 2008;
accepted May 29, 2008.