

DEVELOPEMENT OF BLASTIC PHASE LEUKEMIA IN A PATIENT WHO FOLLOWED BY DIAGNOSIS OF CHRONIC MYELOID LEUKEMIA IN REMISSION FOR 17 YEARS : A RARE LEUKEMIA CASE

İsmail ERTÜRK (Gülhane School of Medicine, Department of Medical Oncology, Ankara)

Bilgin BAHADIR BAŞGÖZ (Gülhane School of Medicine, Department of Internal Medicine, Ankara)

Birol YILDIZ (Gülhane School of Medicine, Department of Medical Oncology, Ankara)

Nuri KARADURMUŞ (Gülhane School of Medicine, Department of Medical Oncology, Ankara)

Fikret ARPACI (Gülhane School of Medicine, Department of Medical Oncology, Ankara)

Introduction - Purpose : Chronic myeloid leukemia (CML) is a neoplasm of early stem cell and progenitor stem cell that occurred due to oncogenic BCR-ABL tyrosine kinase effect. The majority of cases are followed-up in chronic phase (in remission) for many years with tyrosine kinase inhibitors such as imatinib mesylate. Blastic phase acute myeloid leukemia is extremely rare in a CML patient using imatinib mesylate.

Findings : A CML patient using imatinib mesylate treatment and have been followed-up in remission, admitted to hospital with chest pain lasting for 5 months. Laboratory test results of the patient in the time of admission are as follows: hemoglobin: g / dl, hematocrit:%, leukocyte: / mm³, platelet: / mm³, creatinine: mg / dl, direct bilirubin: mg / dl, indirect bilirubin: mg / dl. Bone marrow aspiration and biopsy was performed and blasts were detected in examination. Due to acute renal failure and advanced acidosis, hemodialysis was performed. Unfortunately, acute respiratory distress has occurred and patient passed away in intensive care unit.

Discussion : In existence of anemia, leukopenia and trombocytopenia or in conditions of worsening in clinical status in CML patients, blastic transformation should be kept in mind even if the patient is in chronic phase (in remission) through imatinib mesilat and also appropriate treatment should be administered urgently.

Keywords: BCR-ABL tyrosine kinase, Chronic myeloid leukemia