ISSN: 2640-1037

Clinics of Oncology

Clinical Image

Chronic Myeloid Leukemia Blast Phase Versus Primary Ph+B- Lymphoblastic Leukemia

Lyapichev KA, Wang W, Tang G, Yin CC, Medeiros LJ and Tang Z*

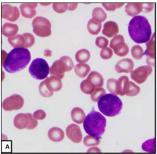
Department of Hematopathology, the University of Texas MD Anderson Cancer Center, Houston, USA

Volume 2 Issue 8- 2019 Received Date: 10 May 2019 Accepted Date: 29 May 2019 Published Date: 06 Jun 2019

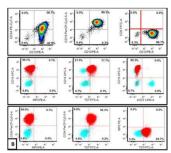
1. Clinical Image

A 75-year-old man was diagnosed with Ph+ B- lymphoblastic leukemia (B-ALL) in 2015 (**A**). Flow cytometry immunophenotyping (**B**) showed the blasts positive for CD10, CD19, CD20, CD22, CD33, CD34, CD38, cytoCD79a, CD123, and TdT, and negative for CD13, CD14, CD25, CD36, CD56, CD64, CD66c, CD117, HLA-DR, MPO, and T-cell markers. Chromosomal analysis showed 46,Keratin 5 mutation in a Bulgarian family with Dowling-Degos disease— a case report and a review of the literature

XY, t(9;22)(q34;q11.2) **(C)** and qPCR showed an e1a2 (p190) *BCR-ABL1* fusion transcript. The patient was treated with hyper-CVAD plus ponatiniband achieved a complete remission. All follow-up bone marrow biopsies were negative for B-ALL by morphology and flow cytometry, but recent qPCR showed persistent p190 *BCR-ABL1* transcript (17.7%); FISH study showed *BCR-ABL1* fusion in both segmented cells (neutrophils, 7.5%) and round nucleated cells (20%) **(B)**; complete blood cell counts showed persistent mild leukocytosis and monocytosis. These findings trigger the debate about whether the original diagnosis should be a chronic myeloid leukemia (CML) blast phase or a B-ALL.



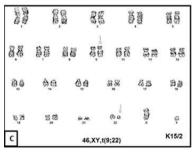
A. BM aspirate (x1000).



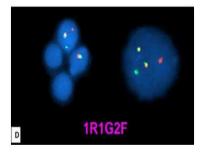
B. Selected flow cytometry immunophenotyping analysis results.

^{*}Corresponding Author (s): Zhenya Tang, Department of Hematopathology, The University of Texas MD Anderson Cancer Center, Houston, Texas 77030, USA, Tel: 713-563-4369; Fax: 713-563-3166, E-mail: ZTang@mdanderson.org

Volume 1 Issue 8 -2019 Clinical Image



 $\hbox{C. Chromosomal analysis result } (46,\!XY,\!t(9;\!22)(q34;\!q11.2)[20]).$



D .Recent FISH analysis results