

عنوان مقاله:

A Bone Marrow Study; Report of Chromosomal Variations in Hematologic Malignancies Including Acute Myeloid (Leukemia, Acute Lymphoid Leukemia, and Myelodysplastic Syndrome (Northeast Iran

محل انتشار:

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تعداد صفحات اصل مقاله: 8

نویسندگان:

Sepideh Shakeri - *Cancer Molecular Pathology Research Center, Mashhad University of Medical Sciences, Mashhad, Iran*

Hossein Ayatollahi - *Cancer Molecular Pathology Research Center, Mashhad University of Medical Sciences, Mashhad, Iran*

Mohammad Hadi Sadeghian - *Cancer Molecular Pathology Research Center, Mashhad University of Medical Sciences, Mashhad, Iran*

Seyyede Fatemeh Shams - *Transfusion Research Center, High Institute for Research and Education in Transfusion Medicine, Tehran, Iran*

خلاصه مقاله:

Background: Chromosomal aberrations which occur in different hematologic malignancies are believed to be highly applicable for identifying the prognosis and treatment protocols. We conducted the present study to investigate the chromosomal and molecular abnormalities in bone marrow of acute myeloid leukemia (AML), acute lymphoid leukemia (ALL), and myelodysplastic syndrome patients. Method: We performed this cross-sectional study in molecular pathology and cancer research center of Mashhad University of Medical Sciences (MUMS), during ۲۰۱۷-۲۰۱۹; the total number of our cases was ۲۵۲. We did all the molecular and cytogenetic tests on these patients. SPSS V.۱۶ software was utilized for the analysis of our data. Results: In this research, the ALL patients were meaningfully younger than AML ones. There were significant associations between karyotype patterns and types of malignancy; normal diploid was more frequent in myelodysplastic syndrome ($p < 0.05$). Among numerical abnormalities, trisomy ۳ and monosomy ۱۴ were the most prevalent ones. Conclusion: The results of similar studies from different areas with different ethnics would help to identify new parameters for prognosis determination. Cytogenetic analysis is highly applicable for leukemia diagnosis and prognosis.

کلمات کلیدی:

Chromosome Aberrations, Hematology, Cytogenetic analysis, Leukemia

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