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Cytogenetic culture failure and its causes in hematological disorders; a single centre perspective

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Abstract

Objective To highlight the reasons of culture failure in bone marrow aspirate samples sent for Cytogenetic analysis and to identify the associated parameters causing this impact.

Methodology This is a retrospective cross-sectional study conducted in the Clinical and Molecular Cytogenetics Laboratory of NIBD Hospital, Karachi, Pakistan. The rates of culture failure are assessed from the year 2017–2020 along with their reasons. Bone Marrow aspirate samples of patients with hematological malignancies were cultured for chromosomal analysis, both at the time of diagnosis or relapse. Statistical analysis was performed using SPSS version 25.

Results A total of 1061 bone marrow aspirate samples were assessed for cytogenetic culture failures from the duration of 2017 to 2020. Ratio of males was predominantly higher i.e. 62.7% than female 37.3% with Mean $\pm$ SD age was 36.78 ± 18.94 . Frequency of culture failure in the year 2020 was relatively high 20% as compared to the preceding years i.e. 8% in 2017, 6% in 2018, 7% in 2019. However, the patients were diagnosed with the following hematological malignancies; ALL 23%, CMIL 17.1%, AML 16.5% and AA 12.5%. Among the reasons of culture failure, cytogenetic analysis of patients with on-going chemo resulted in significant culture failures with p-value < 0.001 and the hematological malignancy, Acute Promyelocytic Leukemia, significantly impacted the growth of bone marrow aspirate cultures, with p-value < 0.001.

Conclusion Significant findings were associated with causative factors of culture failure including on-going treatment and sample issues of clotted bone marrow as well as with the clinical diagnosis. These evaluations facilitated in overcoming the rise in culture failures. As per our knowledge, no such data, discussing the effects of various parameters such as sample quality, diagnosis, effects of treatment etc., has been documented previously.

Keywords Cytogenetic analysis, Culture failure, Hematological disorders, Metaphases, Bone marrow aspirate

Introduction

Cytogenetic studies constitute a major part in predicting the outcome of a treatment for certain hematological disorders. Hematological disorders are the neoplasms that develop in bone marrow-derived cells. Many patients with leukemia, lymphoma, or other malignant hematologic diseases have malignant cells that have acquired clonal chromosomal aberrations [6]. Nowadays, cytogenetic testing is considered to be a requirement for diagnosing hematologic malignancies. Recurrent structural abnormalities are useful

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