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PEDIATRIC BONE MARROW INTERPRETATION

Mihaela Onciu, MD

KEYWORDS

Bone marrow • Pediatric cancer • T cell • Marrow infiltrates • Genetic disorders

ABSTRACT

he evaluation of pediatric bone marrow poses specific challenges when compared with the general adult population. These challenges stem in part from the higher likelihood of congenital disorders with hematopoietic manifestations, some of which may give rise to hematologic malignancies. Familiarity with the spectrum of disorders seen in the pediatric age group allows for an appropriate and focused differential diagnosis. This review addresses the diagnostic workup of pediatric bone marrow samples, as directed by the peripheral blood and bone marrow findings in the context of the patient's clinical history. Recommendations for the appropriate use of ancillary studies in various scenarios are provided.

OVERVIEW

The evaluation of bone marrow samples obtained from children requires familiarity with the spectrum of hematologic diseases (including entities specific to this age group), as well as knowledge of the potential diagnostic pitfalls. First, it is important to realize that a large proportion of the benign and malignant disorders diagnosed during child-hood are likely to be related to underlying genetic abnormalities, sometimes as the first manifestation of these defects. Another important consideration in children is that lymphoid progenitor cells (termed hematogones) normally present in the bone marrow are often increased in numbers as a reactive change to benign disorders or malignant neoplasms. These hematogone expansions

overlap significantly with some of the most common leukemias seen in children, potentially misleading the observer toward an erroneous diagnosis of leukemia or the misclassification of a different neoplasm. Finally, certain types of malignant neoplasms with partially overlapping blastic morphologic features (so called "small blue-cell tumors"), but with vastly different biology requiring distinct therapeutic approaches, occur relatively frequently in young patients.

THE NORMAL PEDIATRIC BONE MARROW

The morphology of normal pediatric bone marrow overlaps significantly with that of adults. Two



Pathologic Key Features of PEDIATRIC BONE MARROW INTERPRETATION

- Interpretation of pediatric bone marrow samples requires that the pathologist integrate clinical, morphologic, and ancillary study results to arrive at the correct diagnosis.
- Congenital syndromes and florid reactive processes must always be considered in the differential diagnosis of hematologic malignancies in the pediatric population.
- Recognition of the general pathologic pattern (hypercellular, hypocellular, or single-lineage defect) aids in narrowing the differential diagnosis when interpreting bone marrow samples from pediatric patients.

Asya Agulnik, Jennifer Ann McArthur, Kris Michael Mahadeo, Marie E. Steiner

A Practical Guide to Pediatric Emergency Medicine N. Ewen Amieva-Wang, 2011-08-11 Practical guide for emergency physicians providing all the information needed to diagnose and treat common and uncommon pediatric disorders

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