Myelodysplastic syndrome with genetic predisposition

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Myelodysplastic syndromes (MDS) are heterogeneous group of clonal blood disorders characterized by ineffective hematopoiesis, cytopenias, dysplasia and an increased risk of acute myeloid leukemia (AML). A growing number of inherited genetic loci that contribute to MDS/AML development are rapidly being identified. As genetic sequencing has become increasingly integrated into clinical practice, clearly defined syndromes have emerged, termed MDS/AML predisposition syndrome. As more patients and families with predisposing conditions are identified, it is increasingly important to have knowledge of the approach to evaluation and management of MDS with genetic predisposition syndrome. This article provides review of MDS with genetic predisposition and practical aspects of management in patients with predisposition syndromes.

Keywords: myelodysplastic syndrome, genetic predisposition