

Hematologies Update Vol. 2

3161 Elliott Avenue, Suite 200, Seattle, WA 98121 Phone (800) 860-0934 Fax: (206) 223-5550 www.hematologies.com

Hematologies has been the recognized worldwide leader in the detection of Myelodysplasia (MDS) by our unique use of Difference from Normal (ΔN) Flow Cytometry. This unique validated Flow Cytometry Scoring System (FCSS)¹ identifies and quantitates the abnormal changes in patients with cytopenias. By counting the number of abnormalities a risk score can be determined:

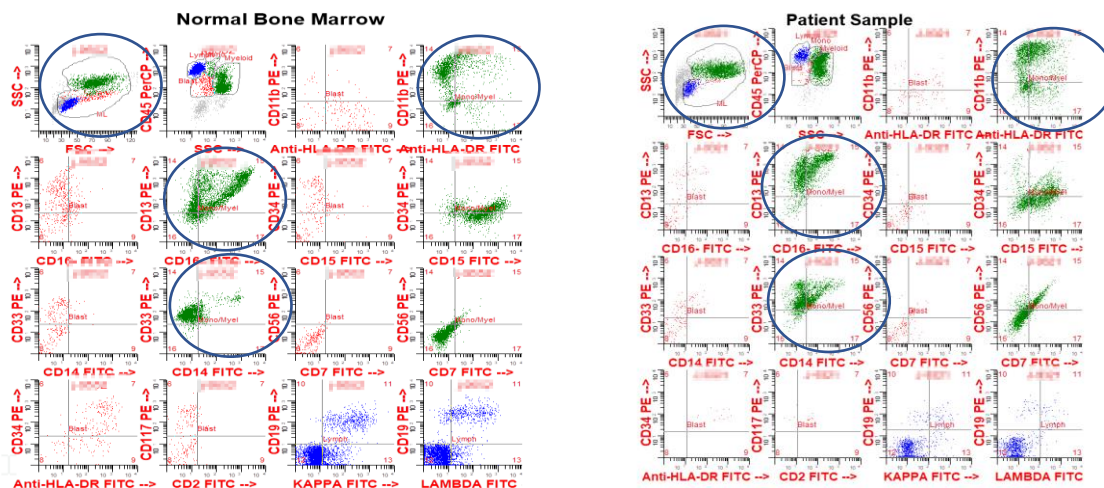
- FCSS 0-1 Abnormalities: Low Risk (Mild/Normal)**
- FCSS 2-3 Abnormalities: Intermediate Risk (Moderate)**
- FCSS ≥ 4 Abnormalities: High Risk (Severe) with poor survival even when blasts are $<5\%$ (traditionally considered low risk)**

This risk analysis by FCSS can help guide treatment decisions.

Case Study – Diagnosis of Suspected MDS

Clinical History/Indications: A bone marrow sample was submitted on a patient with a history of pancytopenia and an upper gastrointestinal bleed.

Analysis/Conclusions: ΔN : **Flow Cytometry** revealed abnormal myeloid antigen expression with no evidence of increased myeloblasts (0.3% myeloid progenitors detected), abnormal lymphoblasts, or lymphoma. The MDS FCSS score was 4, myelomonocytic dyspoiesis in a high-risk category.



Diagnosis: Consistent with refractory anemia with multilineage dysplasia (RCMD) demonstrating a FCSS poor risk score of 4 even in a specimen with 0.3% myeloid progenitor cells. FCSS is correlated with IPSS and with outcome after hematopoietic stem cell transplantation.¹

¹Myeloid and monocytic dyspoiesis as determined by flow cytometric scoring in myelodysplastic syndrome correlates with the IPSS and with outcome after hematopoietic stem cell transplantation. Wells DA, Benesch M, Loken MR, Vallejo C, Myerson D, Leisenring WM, Deeg HJ. Blood. 2003 Jul 1;102(1):394-403.

Hematologies provides a unique approach to testing in the areas of ΔN : Flow Cytometry, Molecular Genetics, Cytogenetics, Deep Sequencing, FISH and Microarray. Please visit our website, www.hematologies.com, for more information or call us at (800)860-0934.

Best for Your Patient - Best for You