

Myelodysplastic Syndromes 2023: What's New

ASH 2023 – Friday Satellite Symposium Dec 8, 2023, 7:00 am – 10:00 am PT San Diego Marriott Marquis



Myelodysplastic Syndromes 2023: What's New ASH 2023 – Friday Satellite Symposium

MDS Challenges in 2023

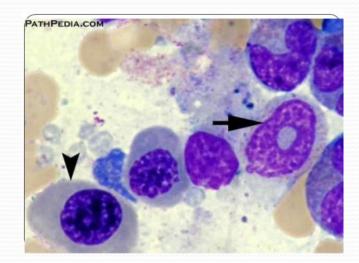
Moshe Mittelman

Tel-Aviv, Israel

Myelodysplastic Syndromes (MDS): General

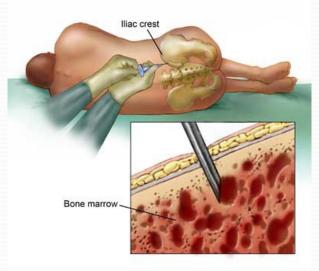
- Clonal BM stem cell disease(s)
- Abnormal hematopoiesis:
 - differentiation, maturation, apoptosis
- Genetic (Immune) basis
- Anemia (95%); Cytopenias
- Median age: 74 yr
- Incidence increases with age
- Patients are classified LR / HR
- Leukemic transformation (20%-60%)

Malcovati L, Blood 2013;122:2943; Tefferi A, NEJM 2009; 361: 1872 Ades L, Lancet 2014;383:2293; Rollison DE, Blood 2008; 112: 45 deSwart L BJH 2015;170:372; Mittelman M Is J Med Sci 1990;26:468; Greenberg P, Blood 1997; 2012



MDS 2023: Challenges - Diagnosis

- Today: Based on BM
- Problems:
 - Not early enough missing Pre-MDS sates
 - Individuals at risk
 - **BM** examination:
 - Invasive (old)
 - Morphology (semi) subjective
 - 15-25% inter-observer differences
- Solutions add:
 - Genetics;
 - Digital tools
 - Others ?



Mayo Foundation for Medical Education and Research. All rights reserved.



MDS 2023: Challenges Prognosis / Classification (s)

- MDS heterogenous
- Predicting prognosis mandatory
- Tool **Classification** (S)
 - FAB (1982) Bennett, BJH 1982
 - WHO (1999; 2008; 2016) Arber DA Blood 2016
 - IPSS / IPSS-R Greenberg Blood 1997; 2012
 - IPSS-M (2022) Bernard NEJM Evidence 2022
 - 5th WHO classification *Khoury* Leukemia 2022
 - ICC: Intern. Consensus Classification Arber Blood 2022; Cazzola Blood 2022
- Harmonization ?









MDS 2023: Challenges - Treatment (I)

Lower-Risk MDS:

- Anemia
 - RBC transfusions still ?
 - ESAs still 1st Line ?
 - Luspatercept role ?
 - Lenalidomide only for del (5q) ?
 - Novel agents ?
- Thrombocytopenia
 - Still embargo ?
 - Novel agents ?



MDS 2023: Challenges - Treatment (II)

• Higher-Risk MDS:

- Still HMA ?
 - Can we overcome the barrier ?
 - 50% response rate; 2-year response duration
- Novel agents ?
 - In combination ?
 - Targeted therapy ?
- Role of chemotherapy
- Stem cell transplant
- Novel Immune approach
 - CAR-T ?



MDS 2023: Challenges – Other

Biology/Pathogenesis

- Better understanding
 - Inflammaging
 - Role of microenvironment
- Genetics
 - Interaction; Co-mutations; Gene function
- Iron chelation
- Quality of life
- Financial toxicity
 - Access to medications
- Guidelines





CME Pre-Test

Please complete a brief CME Pre-test for today's symposium

