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 Satellite Symposium

MDS Challenges in 2023
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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%)

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?
MDS 2023: Challenges
Prognosis / Classification (s)

- MDS – heterogenous
- Predicting prognosis - mandatory
- Tool – Classification (S)
  - FAB (1982) \textit{Bennett}, BJH 1982
  - IPSS / IPSS-R \textit{Greenberg} Blood 1997; 2012
  - IPSS-M (2022) \textit{Bernard} NEJM Evidence 2022
  - 5$^{th}$ WHO classification \textit{Khoury} Leukemia 2022
  - ICC: Intern. Consensus Classification \textit{Arber} Blood 2022; \textit{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