



Dr. Joe, Diversity, Disparity and Myeloma

PMMNG

January 2021

Joseph Mikhael, MD, MEd, FRCPC Chief Medical Officer, International Myeloma Foundation Professor, Translational Genomics Research Institute (TGen) City of Hope Cancer Center





- Dr. Joe's brief story
- An introduction to Disparities in Cancer and Myeloma
- Clinical Trials and The African American Community
- The IMF African American Initiative





My Story – Personal and Professional

- My parents
- My schooling
- My experience in Canada
- My time at Mayo Clinic
- My journey to the IMF
- My passion for the underserved and vulnerable...





What is Equity, Diversity and Inclusion?

- Equity means to guarantee of fair treatment, access, opportunity, and advancement for all while striving to identify and eliminate barriers that have prevented the full participation of some groups.
- Valuing diversity means that we recognize and respect everyone's unique qualities and attributes.
- Inclusion means that all individuals <u>feel respected</u>, <u>accepted</u> and valued.





Important Facts about Myeloma and African

Americans

1. Myeloma is the most common hematologic cancer in African Americans

2. MGUS and Myeloma is TWICE as common in African Americans

3. Survival improvements in myeloma have note been as pronounced in African Americans (For every 1.3 years of life gained for Whites, only 0.8 years of life gained for African Americans)

4. African Americans are younger at diagnosis by about 5 years

5. There is a longer time to diagnosis from the onset of symptoms



Important Facts about Myeloma and African

Americans

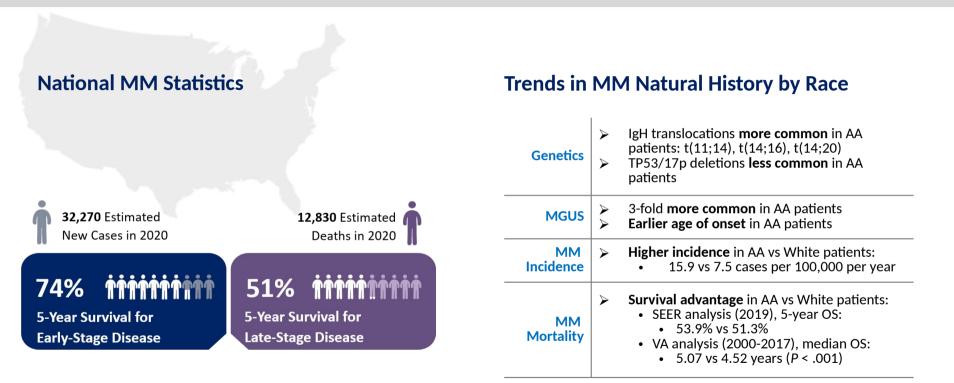
6. Africans Americans are less likely to receive TRIPLET therapies

- 7. African Americans are less likely to receive Stem Cell Transplants
- 8. Although African Americans comprise 20% of all MM patients, they only represent 5-6% of patients on clinical trials
- 9. There are biologic differences in African Americans with MM that may lead to lower risk disease

10. When African Americans receive equal access care, their survival outcomes are equal, and at times, better than Whites



Multiple Myeloma Snapshot



AA = African American; MGUS = Monoclonal Gammopathy of Undetermined Significance; OS = Overall Survival

American Cancer Society. Multiple Myeloma. www.cancer.org/. Accessed 07/10/2020; Baughn LB, et al. Blood Cancer J. 2018;8(10):96; DeSantis CE, et al. CA Cancer J Clin. 2019;69(3):211-233; Marinac CR, et al. Blood Cancer J. 2020;10(2):19; Fillmore NR, et al. Blood. 2019.133(24):2615-2618.

Disparities in Access to Novel Therapy for MM

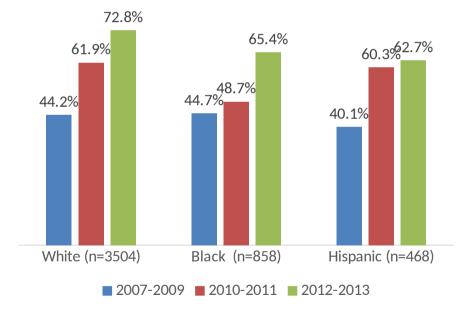
Patients with an MM Diagnosis in the SEER Medicare (2007-2013) Database

	White (n = 3504)	Black (n = 858)	Hispanic (n = 468)
Mean age at MM diagnosis	75.8 years	71.8 years	72.7 years
Mean CCI	2.2	3.2	2.7
Median time to novel therapy*	2.7 months	5.2 months	4.6 months
P value (vs white)		< .001	< .05
Median time to ASCT	Not reached	Not reached	Not reached
P value (vs white)		.08	< .05

*Novel therapy = lenalidomide, pomalidomide, bortezomib, or carfilzomib

ASCT = Autologous Stem Cell Transplant; CCI = Charleston Comorbidity Index Ailawadhi S, et al. *Blood Adv.* 2019;3(20):2986-2994.

Patients on Novel Therapy^{*} within 6 Months of MM Diagnosis



Setting the Stage: ASCO 2020 Policy Statement on Cancer Disparities and Health Equity

Areas of Focus (No. of Recommendations):

Ensure Equitable Access to High-Quality Care (5)

 Support and promote policies, systems, environments, and practices to address persistent barriers to equitable receipt of high-quality cancer care across the care continuum.

Address Structural Barriers (7)

- Encourage organizations and institutions to internally examine and appropriately address institutional discrimination.
- Support and equip providers to address disparate health outcomes resulting from institutional discrimination through providing education and activities that can inform practice and research.

"To do right by the patients we serve, we must confront and address the complex forces and systems that have created disparities in disease prevention, treatment, and research participation." —Lori J. Pierce, MD

ASCO President | August 12, 2020

Ensure Equitable Access to Research (6)

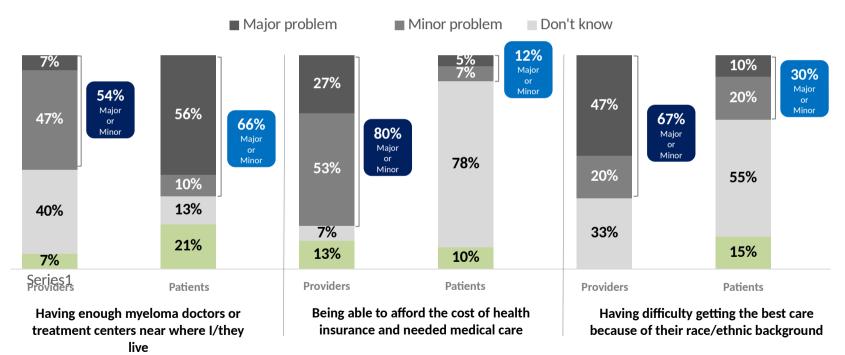
Understand and address ongoing barriers and promote facilitators to equitable research participation.

Increase Awareness and Action (3)

Develop and disseminate appropriate literacy materials for providers, patients, and caregivers as well as advocacy groups.

PRIME® Data Findings: Barriers to Care Access

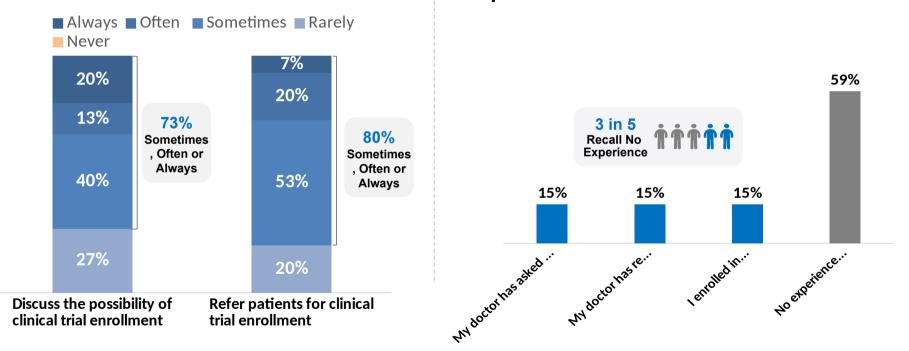
Providers |Please rate the degree of each problem (if present) for African American patients relative to other patients. Patients |Thinking about other people like yourself, how much of a problem are these issues?



Mikhael et al – Submitted JCO OP 2021

PRIME[®] Data Findings: Clinical Trial Enrollment

Providers | Please rate how often you and your team:



Patients | Please describe your

experience with clinical trials for MM:

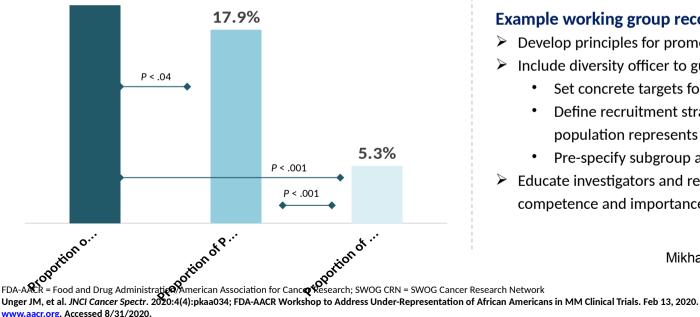
Mikhael et al - Submitted JCO OP 2021

National Challenges in MM Clinical Trial Enrollment

Under-Representation of Black Patients in MM Trials

Proportion of Black patients within the US MM population and in trials supporting new FDA approvals, 2008-2018:





FDA-AACR Workshop Recommendations

FDA-AACR Workshop to Address Under-Representation of African Americans in MM Clinical Trials (February 2020):

Example working group recommendations

- Develop principles for promoting diversity
- Include diversity officer to guide design and recruitment:
 - Set concrete targets for trial enrollment
 - Define recruitment strategies to ensure study population represents disease incidence
 - Pre-specify subgroup analyses for safety and efficacy
- Educate investigators and referring physicians on cultural competence and importance of community engagement

Mikhael et al – Submitted JCO OP 2021

© 2020 PRIME[®] Education, LLC. All Rights 12

IMF Mission



For 30 years, the mission of the IMF has been to improve the quality of life of myeloma patients while working toward

prevention and a c patients IC LIVES ENIDING THE **Empowering ALL Myeloma Patients** What are Regional Resource Library () Community Workshops? Join a Support Group The IME have facilitated a network of 150 The International Myeloma Foundation believes that diversity and inclusion are integral myeloma-specific support groups that hold aspects of the myeloma community. Explore this pamphlet to learn how you can be empowered. regular meetings in the U.S. So no matter where you are, we can help you find or Patient and Family create a multiple myeloma support group Seminar ()) and coopert with other survivors and Contact the InfoLine () caregivers. Researc Advocac Educatio **Support** h y n 13

IMF Efforts to Support All Patients





We ask that groups who feel they are underrepresented or misrepresented in the myeloma community give voice to their concerns. We are here to listee. We are here to provide a second home for all. We encourage you to learn more to be an empowered member of our One Maeloma Nation.

IMF Website



Beyond Medicine's Barriers - Working toward access for all patients



Veterans Against Myeloma Advocacy for Blue Water Navy Vietnam Veterans Act

IMF PATIENT EMPOWERMEN T MISSION

Advancing early and equitable access to myeloma information, screening and treatment in vulnerable communities worldwide

The African American Initiative Building on the IMF's Diversity Program









African American Initiative

The IMF African American Initiative is one important portion of the IMF's commitment to diversity and the wellbeing of all myeloma patients worldwide.

Many groups have sought to reach out to the African American myeloma community

HOWEVER

The IMF is ideally poised to make a difference due to its unique mission and presence in the community



The IMF African American Initiative

The core vision of the IMF African American Initiative is to *improve the short and long-term outcomes* of African American patients through **engagement** of the community, **education** of health care providers, **and support** of patients

The overall objective of the IMF African American initiative is to improve outcomes in African American patient care by:

actively engaging the African American community in a better understanding of myeloma,

educating the primary health care community regarding early and accurate diagnosis of myeloma and

supporting the Hematology Oncology community in their care of African American patients with myeloma

MYELOMA FOUNDATION

IMF African American Initiative

Overarching Resources Website, Info Line, Support Groups

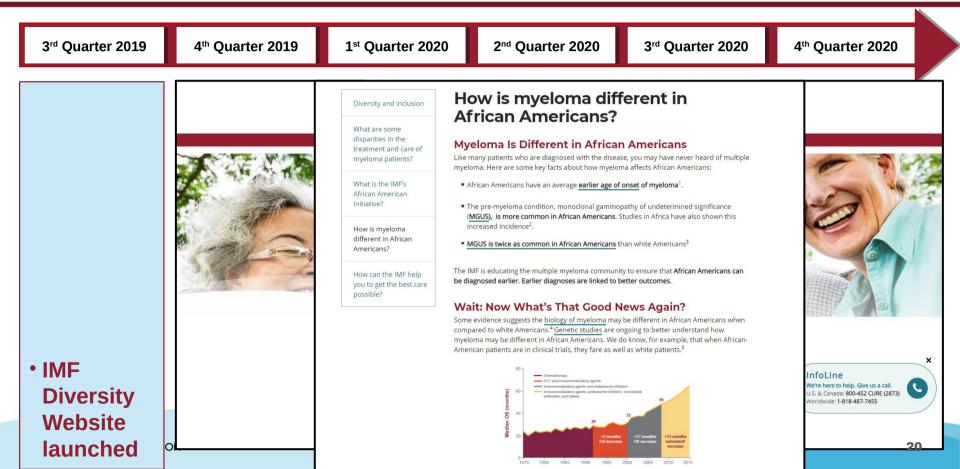
Collaboration with existing IMF Activities Regional Community Workshops, Patient & Family Seminars, Publications

African American Advisory Council





Highlights – IMF Website



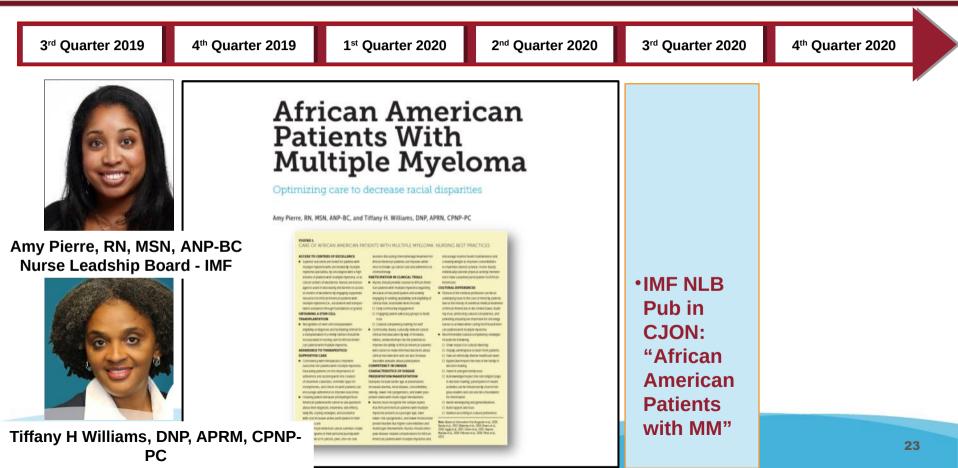
Highlights – Patient & Family



Highlights – Support Group



Highlights - Publication



More Importantly: Building Trust

- Open and informative dialogue about the challenges and potential solutions
- Strategic connections and partnerships in the community
- Collaboration with community organizations
- Increased IMF profile in the community



The IMF African American Initiative



THE BMS GRANT

Three Major interconnected projects:

- 1. Engagement of the African American Community Raise awareness about myeloma in medical and non-medical community Build up campaign to peak in March during Myeloma Action Month
- 2. Education of the Primary Care Community Focus on early and accurate diagnosis of myeloma
- 3. MGUS Screening Study

Measure true incidence in 20,000 African American patients

All three projects will be conducted in partnership with Atrium Health (which has a huge primary care network) and Levine Cancer Institute



The Nursing Approach – IMF NLB

Build Trust

Engage the Community



NURSE LEADERSHIP BOARD A Division of International Myeloma Foundation

Multiethnic Team

Survey Results

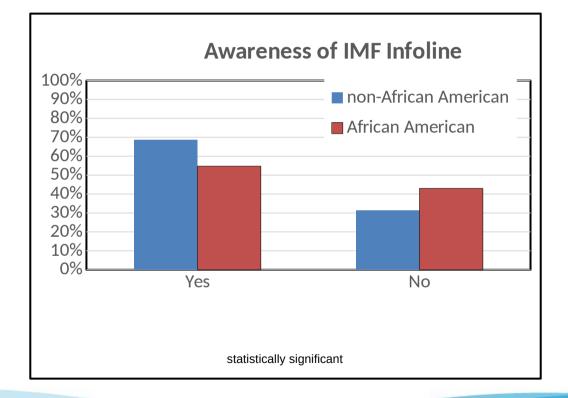
A survey conducted among 2,000 Multiple Myeloma patients, approximately 10% of whom are African American, informed next steps in this important initiative

Trends:

- 1. African Americans were more likely to have a long delay in diagnosis
- 2. African Americans were less likely to have their physician order a **bone marrow** to diagnose the disease
- ***
- 3. African Americans were less likely to be treated with a triplet regimen



Resources





- Diversity, Equity and Inclusion are critical concepts that will further influence our world
- The disparity in myeloma care is pronounced in the African American population, but also exists in many other groups
- The IMF has a longstanding history of commitment to these issues and has an integrated initiative in improve the disparity and induce needed change
- Success will be dependent on efforts at multiple levels, especially at the grass roots level of support groups





IMF Global Presence





Joseph Mikhael, MD, MEd, FRCPC

Professor, Translational Genomics Research Institute (TGen) City of Hope Cancer Center

Chief Medical Officer, International Myeloma Foundation

Director of Myeloma Research and Consultant Hematologist, HonorHealth Research Institute

jmikhael@myeloma.org



