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AN ACCREDITED CONTINUING EDUCATION SERIES WITH THE EXPERTS

Addressing Disparities in Cancer Care and Incorporating Precision Medicine for Minority Populations











Faculty



Moderator & Course Director Edith Mitchell, MD, MACP, FCPP, FRCP

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Presenter

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Presenter

Joseph Mikhael, MD, MEd, FRCPC, FACP

Chief Medical Officer, International Myeloma Foundation Professor, Applied Cancer Research and Drug Discovery, Translational Genomic Research Institute (TGen), City of Hope Cancer Center Consultant Hematologist and Director, Myeloma Research, Phase 1 Program, *HonorHealth Research Institute* Adjunct Professor, College of Health Solutions, *Arizona State University*









WINSHIP CANCER INSTITUTE

A Cancer Center Designated by the National Cancer Institute



EMORY UNIVERSITY SCHOOL OF MEDICINE

OUTCOMES IN MM

Sagar Lonial, MD Professor and Chair Department of Hematology and Medical Oncology Anne and Bernard Gray Professor in Cancer Chief Medical Officer, Winship Cancer Institute Emory University School of Medicine

Disparities in Treatment of Black Americans

- Frequency of PCDs are double in AA population vs others (includes precursors such MGUS, SMM, and MM
- Biology and genetics may be very different
- Treatment with novel agents and use of ASCT has become standard of care for newly diagnosed MM¹
 - However, racial and ethnic minorities receive these treatments at a lower rate than whites¹
- Evidence suggests that Black patients with MM have the <u>potential</u> to experience similar or better survival than white patients with MM²
- Black patients have similar response rates and survival when enrolled in clinical trials, compared with white patients^{3,4}

SWOG S0120: Race-dependent Differences In Risk Of Transformation To Clinical MM In A US Cooperative Group Prospective Observational Clinical Trial



Dhodapkar et al. Clin Can Res August 18, 2020; DOI: 10.1158/1078-0432.CCR-20-2119



COMPASS trial: Differences in genetics by race



COMPASS trial: Genetics are different and outcomes are treatment dependent by race



Survival of t(11;14) patients in CoMMpass by race: Outcomes are related to access.



The New Benchmark for outcomes: RVD 1000



Joseph et al, JCO 2020

Patient characteristics (RVD 1000)

| Variables | Caucasians (N=619) | African-American (N=352) | P-value |
|----------------------------|---------------------|--------------------------|---------|
| Median age at diagnosis | 62.60 (16.32-81.52) | 57.98 (24.21-83.05) | <0.0001 |
| Median weight (kg) | 81.50 (40.10-161.4) | 82.6 (44.6-140.5) | 0.569 |
| Median BMI | 27.3 (16.8-50.6) | 29.4 (16.9-53.1) | 0.001 |
| Median baseline Hb | 10.9 (4.6-18) | 10.1 (4.9-16.3) | 0.001 |
| Median baseline platelets | 216 (45-790) | 224 (20-688) | 0.501 |
| Median baseline creatinine | 1.06 (0.38-14.6) | 1.1 (0.3-22.5) | 0.365 |
| Median baseline calcium | 9.4 (5.5-18) | 9.4 (6.7-19.2) | 0.983 |
| Median baseline albumin | 3.7 (1.4-5.1) | 3.6 (1.3-5.5) | 0.657 |
| Median LDH | 144 (50-533) | 156.5 (36-705) | 0.574 |
| Median B2M | 3.05 (0.43-37.8) | 2.96 (0.78-45) | 0.517 |
| Age >65 | 37.9% | 27.7% | 0.001 |
| BMI >40 | 20 (4.2%) | 20 (7.9%) | 0.041 |
| ISS stage 3 | 105 (22.5%) | 67 (25.1%) | 0.422 |
| LDH >271 | 16 (5.8%) | 11 (8%) | 0.377 |
| Creatinine >2 | 50 (10.4%) | 38 (13.9%) | 0.159 |
| Ca >10.5 | 76 (17.2%) | 42 (18.5%) | 0.748 |
| Plts <75 | 4 (0.9%) | 11 (4.6%) | 0.005 |

Cytogenetic differences (RVD 1000)

| Cytogenetic abnormality | Caucasians (N=619) | African-American (N=352) | P-value |
|-------------------------|--------------------|--------------------------|---------|
| 1q gains | 111 (18.8%) | 37 (10.8%) | 0.001 |
| T(11;14) | 66 (11.5%) | 55 (16.1%) | 0.043 |
| T(4;14) | 25 (4.3%) | 18 (5.3%) | 0.512 |
| T(14;16) | 16 (2.8%) | 10 (2.9%) | 0.888 |
| del17p | 70 (12.1%) | 23 (6.7%) | 0.009 |
| del13 | 168 (29.2%) | 70 (20.5%) | 0.004 |





Months

OS and PFS by race for all patient and t(11;14) patients. RVD 1000 series, Joseph et al



Daratumumab + Lenalidomide/Bortezomib/Dexamethasone in African American/Black Patients With Transplant-eligible Newly Diagnosed Multiple Myeloma: Subgroup Analysis of GRIFFIN*

<u>Ajay K. Nooka</u>,^{1*} Jonathan L. Kaufman,¹ Cesar Rodriguez,² Andrzej Jakubowiak,³ Leyla Shune,⁴ Ashraf Badros,⁵ Ajai Chari,⁶ Paul G. Richardson⁷, Huiling Pei,⁸ Jon Ukropec,⁹ Jessica Vermeulen,¹⁰ Daniela Hoehn,¹¹ Thomas S. Lin,¹¹ Peter M. Voorhees¹²

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Presented at the 8th Annual Meeting of the Society of Hematologic Oncology (SOHO); September 9-12, 2020

*ClinicalTrials.gov Identifier: NCT02874742.

GRIFFIN: Randomized Phase

- Phase 2 study of D-RVd vs RVd in transplant-eligible NDMM, 35 sites in US with enrollment from 12/2016 to 4/2018
- The prespecified primary endpoint occurred at a median follow-up of 13.5 months, when all randomized patients completed consolidation treatment
 - Results here are based on longer follow-up (median, 22.1 months)



NDMM, newly diagnosed multiple myeloma; ECOG, Eastern Cooperative Oncology Group; CrCl, creatinine clearance; D-RVd, daratumumab plus lenalidomide/bortezomib/dexamethasone; D, daratumumab; R, lenalidomide; V, bortezomib; d, dexamethasone; RVd, lenalidomide/bortezomib/dexamethasone; IV, intravenous; PO, oral; SC, subcutaneous; D-R, daratumumab plus lenalidomide; Q4W, every 4 weeks; Q8W, every 8 weeks; sCR, stringent complete response; MRD, minimal residual disease; NGS, next-generation sequencing; ORR, overall response rate; CR, complete response; VGPR, very good partial response; DoR, duration of response; PFS, progression-free survival; OS, overall survival; G-CSF, granulocyte colony-stimulating factor. ^aLenalidomide dose adjustments were made for patients with CrCl ≤50 mL/min. ^bCyclophosphamide-based mobilization was permitted if unsuccessful. ^cConsolidation was initiated 60-100 days post-transplant. ^dPatients who complete maintenance cycles 7-32 may continue single-agent lenalidomide thereafter. ^eProtocol Amendment 2 allowed for the option to dose daratumumab Q4W based on pharmacokinetic results from study SMM2001 (NCT02316106).

Demographics and Clinical Characteristics (ITT)^{a,b}

| | Black p (n = | atients 32) | White (n = | patients 161) | | Black (n | patients = 32) | White p (n = | batients 161) |
|---|-------------------|-----------------|-------------------|------------------|--|-------------------|-------------------|-------------------|------------------|
| | D-RVd (n = 14) | RVd (n = 18) | D-RVd (n = 85) | RVd (n = 76) | | D-RVd (n = 14) | RVd (n = 18) | D-RVd (n = 85) | RVd (n = 76) |
| Age, years | | | | | ECOG PS, ^d n (%) | (n = 13) | (n = 18) | (n = 84) | (n = 75) |
| Median (range) | 58.5 (29-67) | 57 (48-67) | 59 (35-70) | 61.5 (41-70) | 0 | 6 (46.2) | 7 (38.9) | 32 (38.1) | 30 (40.0) |
| Category, n (%) | | | | | 1 | 6 (46.2) | 10 (55.6) | 42 (50.0) | 37 (49.3) |
| <65 | 13 (92.9) | 15 (83.3) | 58 (68.2) | 53 (69.7) | 2 | 1 (7.7) | 1 (5.6) | 10 (11.9) | 8 (10.7) |
| ≥65 | 1 (7.1) | 3 (16.7) | 27 (31.8) | 23 (30.3) | ISS disease stage, ^e n (%) | | | | |
| Sex, n (%) | | | | | I | 9 (64.3) | 11 (61.1) | 40 (47.1) | 37 (48.7) |
| Male | 5 (35.7) | 8 (44.4) | 52 (61.2) | 46 (60.5) | П | 3 (21.4) | 4 (22.2) | 32 (37.6) | 27 (35.5) |
| Female | 9 (64.3) | 10 (55.6) | 33 (38.8) | 30 (39.5) | ш | 2 (14.3) | 3 (16.7) | 12 (14.1) | 10 (13.2) |
| Cytogenetic risk profile, ^c n (%) | (n = 14) | (n = 16) | (n = 80) | (n = 73) | Missing | 0 | 0 | 1 (1.2) | 2 (2.6) |
| Standard | 11 (78.6) | 14 (87.5) | 68 (85.0) | 63 (86.3) | | | | | |
| High risk | 3 (21.4) | 2 (12.5) | 12 (15.0) | 10 (13.7) | | | | | |

ITT, intent-to-treat; D-RVd, daratumumab plus lenalidomide/bortezomib/dexamethasone; RVd, lenalidomide/bortezomib/dexamethasone; ECOG PS, Eastern Cooperative Oncology Group performance status; ISS, International Staging System. ^aThe ITT population was defined as all randomized patients. ^bDemographics and clinical characteristics were based on electronic case report forms completed by study sites. ^cECOG PS is scored on a scale from 0 to 5, with 0 indicating no symptoms and higher scores indicating increasing disability. ^dISS disease stage is based on the combination of serum β2-microglobulin and albumin levels. Higher stages indicate more advanced disease. ^eCytogenetic risk was assessed by fluorescence in situ hybridization (local testing); high risk was defined as the presence of del(17p), t(4;14), or t(14;16) among patients with available cytogenetic risk data.

sCR Rate by End of Post-ASCT Consolidation^a



sCR by end of consolidation in Black patients

- 71% D-RVd vs 33% RVd
- Odds ratio, 5.00; 95% CI, 1.10–22.82;
 2-sided P = 0.0353

sCR by end of consolidation in White patients

- 43% D-RVd vs 34% RVd
- Odds ratio, 1.46; 95% Cl, 0.76–2.82;
 2-sided P = 0.2620

By the end of consolidation, the sCR rate was improved for D-RVd versus RVd in both Black patients and White patients

sCR, stringent complete response.

^aResponses were assessed by computer algorithm in accordance with IMWG recommendations; included patients in the response-evaluable population (all randomized patients with a confirmed diagnoses of MM, measurable disease at baseline, received ≥1 dose of study treatment, and had ≥1 post-baseline disease assessment).

^bP values were calculated using the Cochran–Mantel–Haenszel chi-square test. Responses were compared using 2-sided P-values at a 0.05 alpha level not adjusted for multiplicity.

Depth of Response by End of Post-ASCT Consolidation^a



- D-RVd vs RVd (Black patients)^b
 - ORR: *P* = 0.3778
 - $\geq VGPR: P = 0.1143$
 - − ≥CR: P = 0.0085
- D-RVd vs RVd (White patients)^b
 - ORR: *P* = 0.0651
 - $\geq VGPR: P = 0.0023$
 - − ≥CR: P = 0.5280

The overall response rate, rate of ≥CR, and rate of ≥VGPR were improved for D-RVd vs RVd in Black patients

ORR, overall response rate; CR, complete response; VGPR, very good partial response; sCR, stringent complete response; PR, partial response; D-RVd, daratumumab plus lenalidomide/bortezomib/dexamethasone; RVd, lenalidomide/bortezomib/dexamethasone; IMWG, International Myeloma Working Group. ^aResponses were assessed by computer algorithm in accordance with IMWG recommendations; included patients in the response-evaluable population (all randomized patients with a confirmed diagnoses of MM, measurable disease at baseline, received ≥ 1 dose of study treatment, and had ≥ 1 post-baseline disease assessment).

^bP values were calculated with the use of the Cochran–Mantel–Haenszel chi-square test. Responses were compared using 2-sided P-values at a 0.05 alpha level not adjusted for multiplicity.

Most Common Hematologic Any Grade (≥30%) and Grade 3 or 4 (≥20%) TEAEs^a

| | Black patients | | | White patients | | | | |
|----------------------|----------------|--------------|-----------------|----------------|-------------------|-----------|-----------------|-----------|
| | D-f (n = | RVd : 14) | RVd (n = 18) | | D-RVd (n = 83) | | RVd (n = 74) | |
| Adverse event, n (%) | Any grade | Grade 3/4 | Any grade | Grade 3/4 | Any grade | Grade 3/4 | Any grade | Grade 3/4 |
| Hematologic | | | | | | | | |
| Neutropenia | 8 (57) | 7 (50) | 6 (33) | 4 (22) | 48 (58) | 34 (41) | 22 (30) | 12 (16) |
| Anemia | 7 (50) | 2 (14) | 7 (39) | 3 (17) | 28 (34) | 7 (8) | 22 (30) | 3 (4) |
| Leukopenia | 6 (43) | 3 (21) | 8 (44) | 1 (6) | 29 (35) | 13 (16) | 17 (23) | 3 (4) |
| Thrombocytopenia | 6 (43) | 4 (29) | 7 (39) | 2 (11) | 37 (45) | 12 (15) | 26 (35) | 6 (8) |
| Lymphopenia | 5 (36) | 4 (29) | 9 (50) | 7 (39) | 25 (30) | 19 (23) | 16 (22) | 12 (16) |

• The rate of grade 3 or 4 TEAEs in the D-RVd versus RVd groups was 79% versus 83% for Black patients, respectively, and 83% versus 76% for White patients

Higher rates of grade 3/4 neutropenia, leukopenia, and thrombocytopenia were seen for D-RVd in Black and White subgroups

TEAE, treatment-emergent adverse event.

^aThe safety analysis population included all randomized patients who received ≥1 dose of study treatment; the analysis was according to treatment received.

Additional Safety Results

- TEAEs leading to treatment discontinuation occurred in 36% and 28% of Black patients in the D-RVd and RVd groups, respectively, and in 11% and 16% of White patients
 - Among Black patients, 5 patients in each treatment arm discontinued R, V, or d, most frequently due to peripheral neuropathy or neuralgia; none discontinued D
 - Among White patients, 9 patients in the D-RVd arm and 12 patients in the RVd arm discontinued R, V, or d, most frequently due to peripheral neuropathy or pneumonia;
 1 patient discontinued D due to bacterial pneumonia
- Serious AEs occurred in 36% and 56% of Black patients in the D-RVd and RVd groups, respectively, and in 39% and 49% of White patients
- Infusion-related reactions (IRRs) to daratumumab occurred in 29% (n = 4) of Black patients and 45% (n = 37) of White patients; IRRs were generally mild (grade 1 or 2)
- No AEs led to death in either subgroup

Conclusions

- D-RVd versus RVd as induction and consolidation therapy improved depth of response, including the rate of sCR and MRD negativity, in Black patients with NDMM
 - Daratumumab plus lenalidomide maintenance therapy further improved depth of response
 - These results support D-RVd as a potential new standard of care for Black patients with transplant-eligible NDMM
 - Larger studies are needed to better define the magnitude of daratumumab benefit in Black patients
- The safety profile of D-RVd in Black patients was generally consistent with that in White patients

Overall, improved recruitment of Black patients in clinical trials is needed to understand disease biology and response to therapy among racial groups

Patient characteristics CART

| Variables | Caucasians (N=23) | African-American (N=13) | P- value |
|-------------------------------|---|---|-------------|
| Median age at diagnosis | 52.23 (30.12-74.28) | 48.43 (32.5-63.27) | 0.298 |
| Median age at CART | 58.87 (36.58-78.5) | 53.29 (41.84-67.48) | 0.298 |
| Median prior lines of therapy | 6 (1-14) | 5 (1-11) | 0.729 |
| Median CART target dose | 300 (300-600) 10 ⁶ CAR T-cells | 300 (167-600) 10 ⁶ CAR T-cells | |
| Median baseline Ferritin | 503 (70-3399) | 134 (16-7127) | 0.083 |
| Median baseline CRP | 7 (1-83.9) | 3.1 (1-45.3) | 0.729 |
| Median baseline Fibrinogen | 357.5 (166-727) | 293 (218-490) | 0.105 |
| Median baseline D-Dimer | 1018 (220-13520) | 851 (236-14494) | 0.729 |
| Median hospitalization | 14 (7-21) | 14 (7-28) | 0.679 |

Safety CART

| Variables | Caucasians (N=23) | African-American (N=13) | P-value |
|-------------------------------|-------------------|-------------------------|---------|
| CRS (any grade) | 82.6% | 53.8% | 0.064 |
| CRS (≥ grade 2) | 39.1% | 23.1% | 0.326 |
| Median CRS duration | 3 (1-17) | 2 (1-4) | 0.19 |
| Neurotoxicity (any grade) | 34.8% | 15.4% | 0.212 |
| Neurotoxicity (≥ grade 2) | 17.4% | 7.7% | 0.419 |
| Median neurotoxicity duration | 5 (1-11) | 13 (1-25) | 1.00 |

- Development of any grade cytokine release syndrome (CRS) occurred in 74.4% of patients, was numerically higher in Caucasians (C: 82.6% vs AA: 53.8%, p=0.064).
- Grade ≥2 CRS requiring intervention with IL-6 receptor monoclonal antibody occurred in 35.9% patients (C: 39.1% vs AA: 23.1%, p=0.326).
- Development of any grade neurotoxicity occurred in 25.6% of patients (C: 34.8% vs AA: 15.4%, p=0.212).
- Grade \geq 2 neurotoxicity occurred in 12.8% patients (C: 17.4% vs AA: 7.7%, p=0.419).

Efficacy CART

| Variables | Caucasians (N=23) | African-American (N=13) | P-value |
|------------|-------------------|-------------------------|---------|
| ORR | 77.3% | 84.6% | 0.711 |
| ≥VGPR rate | 72.7% | 69.2% | 0.667 |
| ≥CR rate | 36.3% | 23.1% | 0.703 |

- Overall response rate (ORR) (C: 77.3% vs AA 84.6%, p=0.711)
- ≥ very good partial response (VGPR) rates (C: 72.7% vs AA 69.2%, p=0.667)
- ≥complete response (CR) rates (C: 36.3% vs AA 23.1%, p=0.703).
- The median PFS numerically favored AA patients (C: 8.18 m vs AA: 18.53, p=0.182, median f/u 15.1 months)
- The median OS numerically favored AA patients (C: 21.06 m vs AA: NR, p=0.175, median f/u 21.06 months)

Progression Free Survival



Progression Free Survival, by race, median follow up 15.1 months: median PFS for whites – 8.18 months (95% CI 4.84 - 11.52) and for African Americans – 18.53 months (95% CI 7.53 - 29.53), p-value 0.182

Overall Survival



Overall Survival, by race, median follow up 23.1 months: median OS for whites – 21.06 months (95% CI 2.72 - 39.41) and for African Americans – NR, p-value 0.175

Conclusions

- The biology of MM is likely very different based on race, and this may explain some of the differences in frequency of PCD being higher in the AA population
- Outcomes are dependent upon access.
- Precision medicine is an important part of this process and leads to true targeted therapy.
- Specific trial and tissue analysis based on race are critical to understanding how to optimize treatment for all patients.

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Patients and Families



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And the Clinical Research Team

IMS

Golfers Against Cancer T.J. Martell Foundation

And Many Others who are part of the B-cell Team

















Disparities in Multiple: A Focus on Multiple Myeloma

BioAscend Webinar

June 2021

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

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



1. Rosenberg PS, Barker KA, Anderson WF, et al. Future distribution of multiple myeloma in the United States by sex, age, and race/ethnicity. *Blood.* 2015;125:410-412.



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

African Americans have >2x the incidence rate of MM compared to white Americans¹

1. American Cancer Society. Cancer Facts and Figures for African Americans 2019-2021.



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







4. Survival improvements in myeloma have not been as pronounced in African Americans





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

Studies have shown the delay in diagnosis is on average 6 months LONGER in African Americans

Ailawadhi et al. Racial disparities in treatment patterns and outcomes among patients with multiple myeloma: a SEER-Medicare analysis Blood Adv 2019; 3(20): 2986-94



6. Africans Americans are less likely to receive TRIPLET therapies



1. NecampJ, et al. *Blood*. 2016;128:4502. 2. Chehab S, et al. *Cancer*. 2018;124(8):4358-4365



7. African Americans are less likely to receive Stem Cell Transplants

An analysis from the Center for International Blood and Marrow Transplant Research Database (CIBMTR, N=28,450) showed increased utilization differed by race





8. Although African Americans comprise 20% of all MM patients, they only represent 8% of patients on clinical trials



Participation in US cancer clinical trials **8**[%]African American





9. There are biologic differences in African Americans with MM that may lead to lower risk disease





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

- An analysis of patient-level data from 9 ECOG-ACRIN/SWOG clinical trials in newly diagnosed MM (N=3026) examined clinical trial outcomes by race¹
- No significant differences in OS by race were seen¹





- It is a complex problem and requires a complex solution
- Key themes of Success:
 - Awareness, Education, Advocacy and Empowerment in the lay community
 - Education, Cultural Competence, Access in the medical community
 - Policy, Expectations, Commitment in the **regulatory and corporate** community
- This is impossible without genuine collaboration between ALL stakeholders





The International Myeloma Foundation African American Initiative

• The core vision of this initiative is to improve the short- and long-term outcomes of African American patients with myeloma.

Increase awareness
 Increase education
 Increase support
 Increase research



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IMF PATIENT EMPOWERMENT MISSION

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

Why Charlotte:

Charlotte is an ideal location:

- 35% of the population is African American
- A world class myeloma center: Levine Cancer Institute
- An integrated primary care network
- Southern United States are particularly underrepresented in cancer research

GOAL:

Charlotte will provide a template where aspects of the initiative can be reproduced in other cities nationwide







M-POWER CHARLOTTE INITIATIVE OBJECTIVES Community Engagement
 Raise awareness about myeloma in medical and non-medical community.

Education of Primary Care
 Community
 Focus on early and accurate diagnosis of myeloma

MGUS Screening Study
 Measure true incidence in 20,000
 African American patients

Community Workshop March 20, 2021 10AM ET

M-POWER CHARLOTTE: CHANGING THE COURSE OF MYELOMA



M-POWER CHARLOTTE COMMUNITY WORKSHOP

Saturday March 20, 2021 ~ Agenda

Welcome & Speaker Introductions

Kelly Cox & Dr. Joseph Mikhael, International Myeloma Foundation

Race Matters in Myeloma Care & Survival

Dr. Joseph Mikhael, International Myeloma Foundation

Myeloma for Patients Who Are Just Getting Started

Dr. Joseph Mikhael, International Myeloma Foundation

When Myeloma Comes Back

Dr. Peter Voorhees, Levine Cancer Institute

How to Manage Myeloma Symptoms & Side Effects

Amy Pierre, Memorial Sloan Kettering Cancer Center

Audience Questions

M-Power Charlotte: Changing the Course of Myeloma Dr. Joseph Mikhael, International Myeloma Foundation

Can We Detect Myeloma Even Sooner?

Dr. Manisha Bhutani, Levine Cancer Institute

Break

5 minutes

Finding Your Voice and Talking with Your Team *Tiffany Williams, Patient Advocate*

How Your Healthcare Team Can Help You

Amy Pierre, Memorial Sloan Kettering Cancer Center

Audience Questions



M-POWER CHARLOTTE | COMMUNITY WORKSHOP

M-Power Charlotte Website: m-powercharlotte.myeloma.org

About M-Power Charlotte

The International Myeloma Foundation has joined forces with Atrium Health Levine Cancer Institute's Disparities & Outreach program to empower people in the Charlotte, North Carolina area to help change the course of myeloma. M-Power Charlotte is dedicated to removing barriers to care and improving outcomes in the disease.

We invite you to help achieve these goals by sharing the links in the Myeloma Tool Kit to educational written materials and videos here with friends, family, community groups, and even on your Facebook page!





Community Education

- Videos like Myeloma Made Simple video
- Community slide deck
- InfoLine awareness video
- Local patient story (filming pending due to covid)
- Tip Card Handouts

ARLOTTE





Toolkit

Myeloma Tool Kit



Find a Support Group

Support groups bring together myeloma patients, caregivers, family members & friends. Patients involved in a support group experience more positive outcomes due to their understanding of treatment options and ability to have key conversations with their healthcare team.





What is Myeloma?

Multiple myeloma is a cancer of the bone marrow plasma cells. Other names for the disease are "myeloma" and "plasma cell myeloma."

Early Signs of Myeloma

This Tip Card covers early diagnosis and warning signs of multiple myeloma.



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Myeloma Tool Kit







M-Power Yourself

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To make good decisions about your care with your health-care team, learn as much as you can about myeloma and its treatments.

Caregiver Resources

A comprehensive list of caregiver support and other helpful resources especially for families and caregivers.

Drug Reimbursement Information and Assistance

List of pharma, government and other resources regarding drug reimbursement information and assistance



M-Power Website

Disparities in Treatment

My experiences over the years as a support group leader have been that most leaders are experiencing similar challenges, looking for ways to diversify group participation and ensure that we all live well with myeloma. Much like the health-care system, we have to better understand barriers to participation.



- Tiffany Williams

Diagnosed with myeloma in 2013, Tiffany is a cofacilitator of the Charleston, South Carolina Area Multiple Myeloma Networking Group



Best Practices for Nurses

Lancer cale or in-perman, peer, pro- on- dra-

The IMF Nurse Leadership Board published a paper on Best Nursing Practices





Beginning in Charlotte, then to other cities...

Premise – Myeloma is underdiagnosed and diagnosed later in African American patients

Plan – develop a curriculum to educate primary care providers about EARLY and ACCURATE diagnosis of myeloma

- focus on providers with large proportions of African American patients
- emphasize the distinction between signs/symptoms common to diabetes and myeloma



I am chairing a working group of physicians to similarly produce a best practices document for caring for patients in the African American Community:

Dr. Joseph Mikhael (TGen/City of Hope)

Dr. Craig Cole (Michigan State)

Dr. Saad Usmani (Levine Cancer Institute)

Dr. Manisha Bhutani (Levine Cancer Institute)

Dr. Ajay Nooka (Emory)

Dr. Leon Bernal (Grady Hospital)

Dr. Ashraf Badros (University of Baltimore)



CHAAMP (Charlotte African American MGUS Project)





The African American community is only one of many vulnerable populations

The M-Power Initiative is now developing programs for

Hispanic Americans

Asian Americans

Uninsured individuals

Patients in remote areas

Very young patients with myeloma (under 40)



INTERNATIONAL MYELOMA FOUNDATION



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