

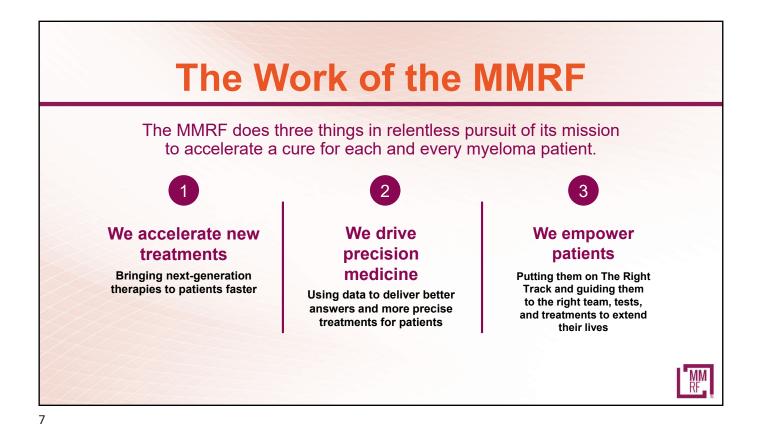


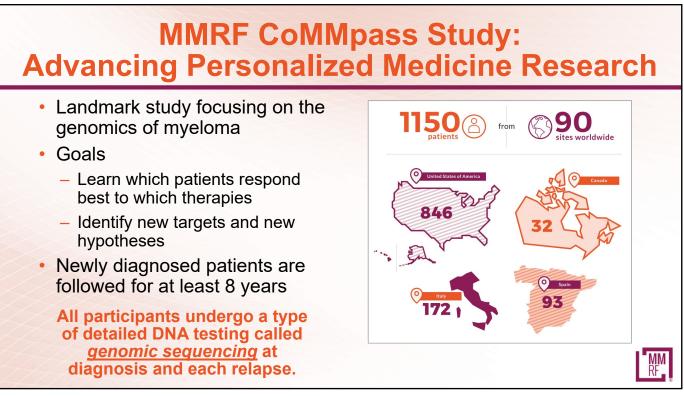


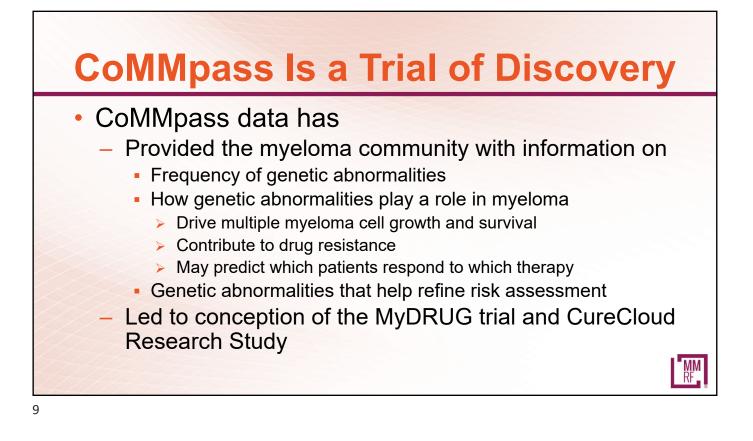


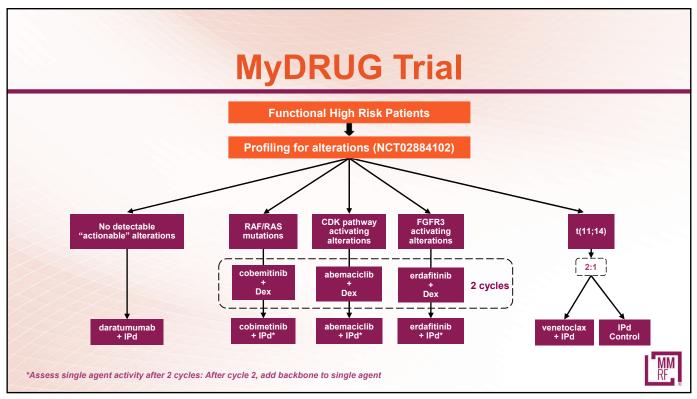
| Summit Agenda | | | | |
|---------------------|--|---|--|--|
| Time (ET) | Торіс | Speakers | | |
| 9:00 – 9:10 am | Introduction to the MMRF | Mary DeRome, MS | | |
| 9:10 – 9:20 am | Welcome | David H. Vesole, MD, PhD, FACP | | |
| 9:20 – 10:00 am | Myeloma 101 and Health Care Disparities in Multiple Myeloma | Kimberley Doucette, MD | | |
| 10:00 – 10:30 ам | Treating Relapsed/Refractory Multiple Myeloma | Noa Biran, MD | | |
| 10:30 – 11:00 ам | Town Hall Q&A | Panel | | |
| 11:00 ам – 11:30 ам | CAR T-Cell Therapy and Bispecific Antibodies | David H. Vesole, MD, PhD, FACP | | |
| 11:30 ам – 12:00 рм | Supportive Care | Susan M. Kumka, RN, MSN, APN Ann McNeill, RN, MSN, APN | | |
| 12:00 – 1:00 РМ | Lunch, Patient Journey | Lucretia Agee | | |
| 1:00 – 1:30 рм | Town Hall Q&A | Panel | | |
| 1:30 рм | Closing Remarks | Mary DeRome, MS | | |
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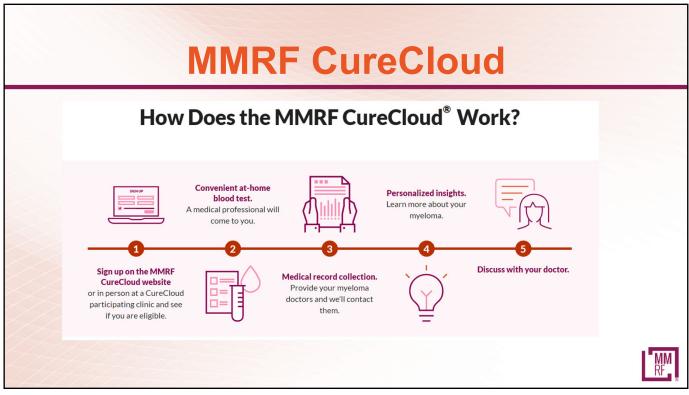


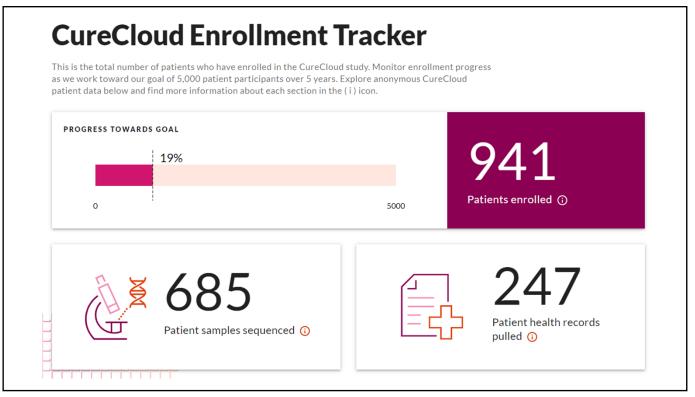


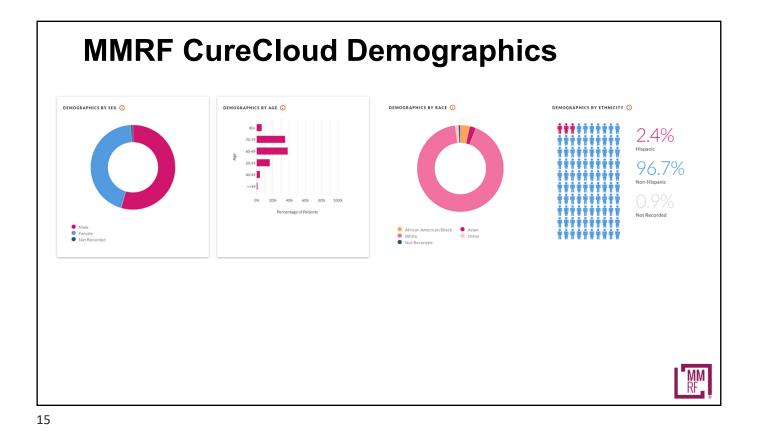
MMRF CureCloud – Recent Changes

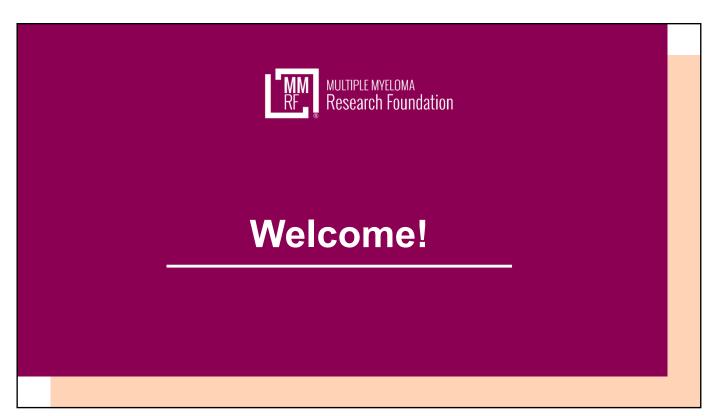
- A new and better assay is being developed to look at patient DNA data from myeloma cells in their blood sample – while this assay is being developed, patients who join will no longer be able to receive their DNA test results, but their DNA will still be analyzed, and the results placed in the CureCloud along with their clinical information
- Patients can still sign up for the CureCloud research study from home, but soon will be able to enroll at select clinical sites with help from site research staff – sites in preparation include UTSW, WashU, Hackensack, Emory, Ochsner, Karmanos, and the VA – by the end of 2023 we anticipate 15 sites will be approved for on-site enrollment
- For now, all patients will still provide their blood sample using an at-home blood draw
- Patients who live in New York may now enroll in CureCloud
- We anticipate that patients will be able to receive their DNA results from samples collected sometime in 2024

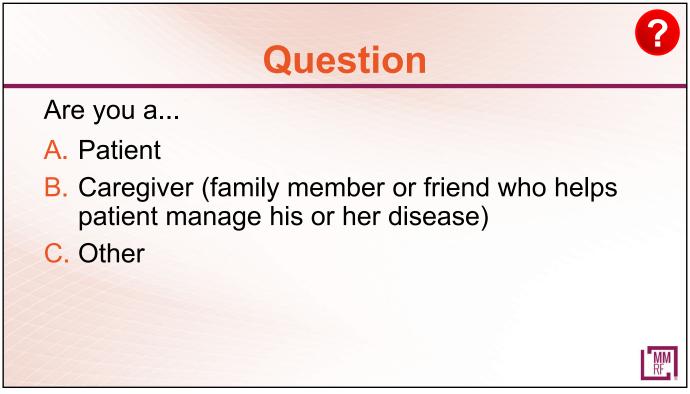


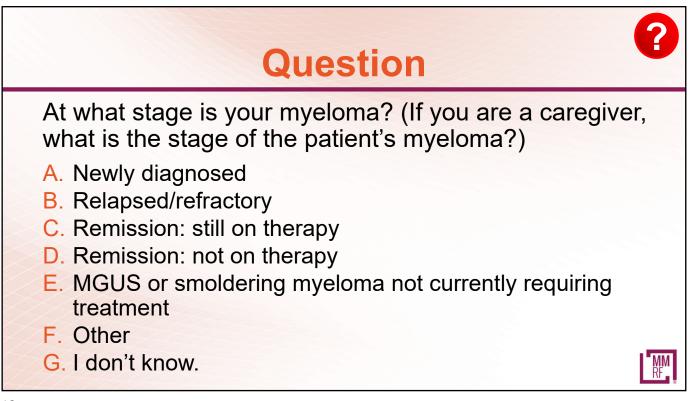


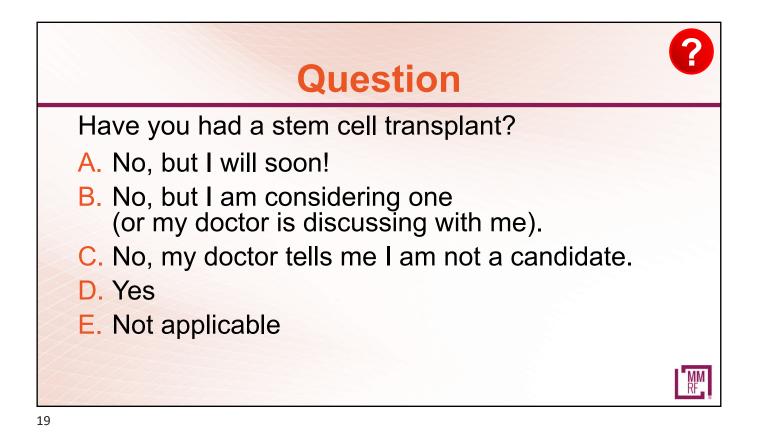


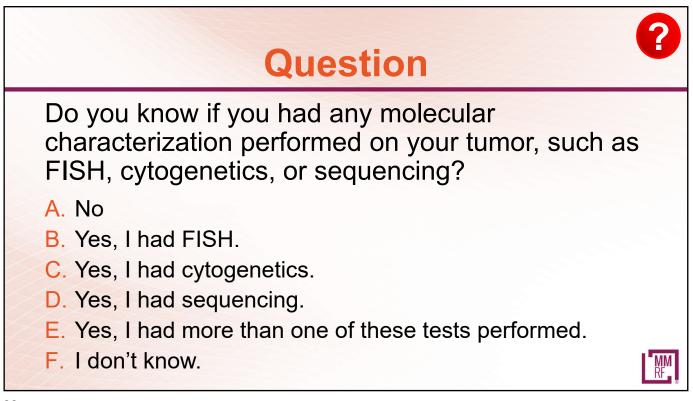


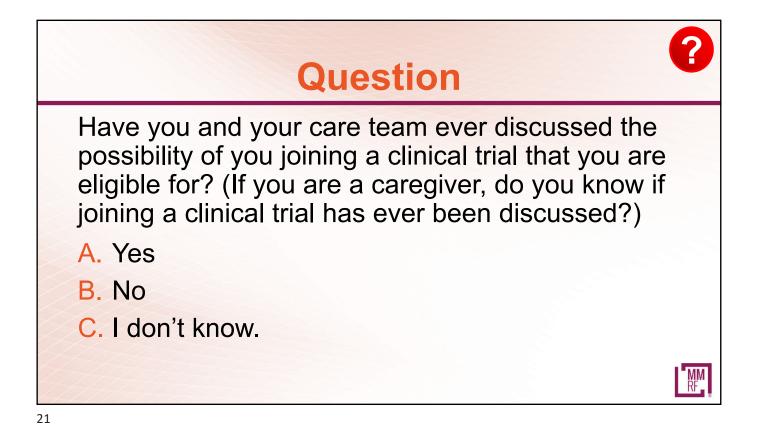


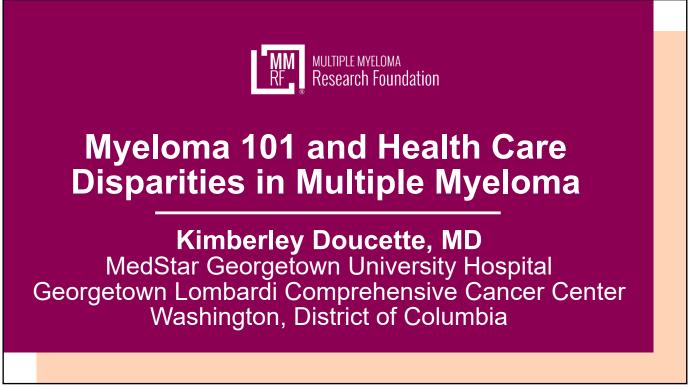


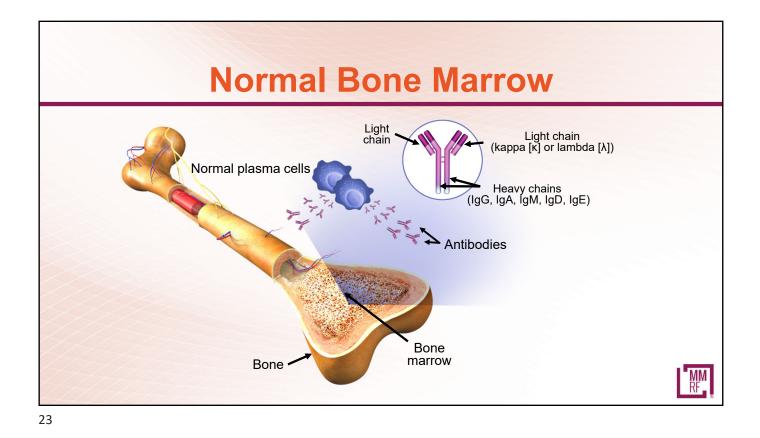


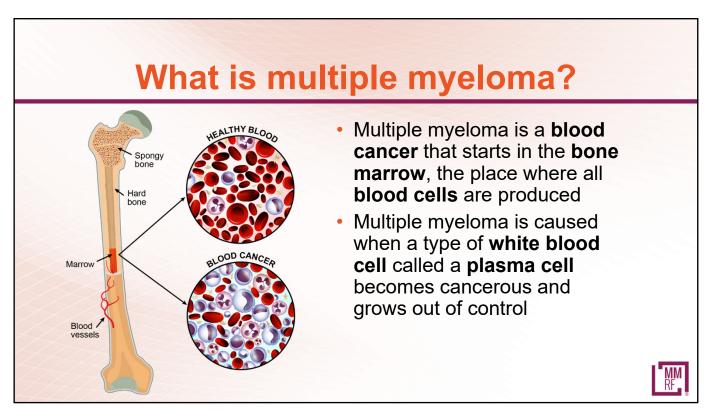


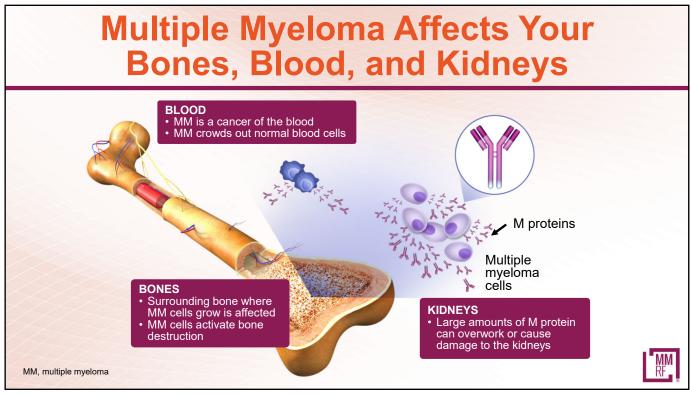




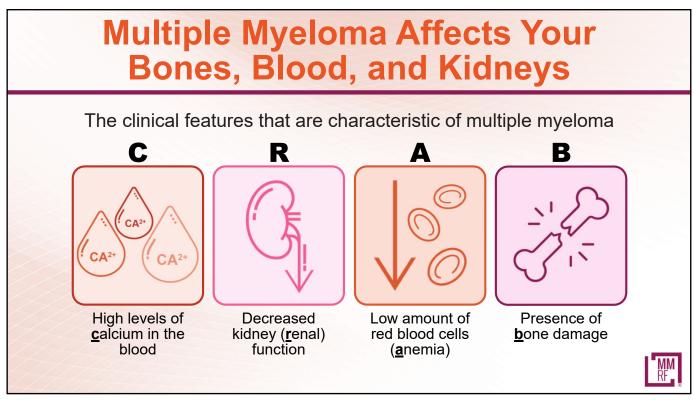


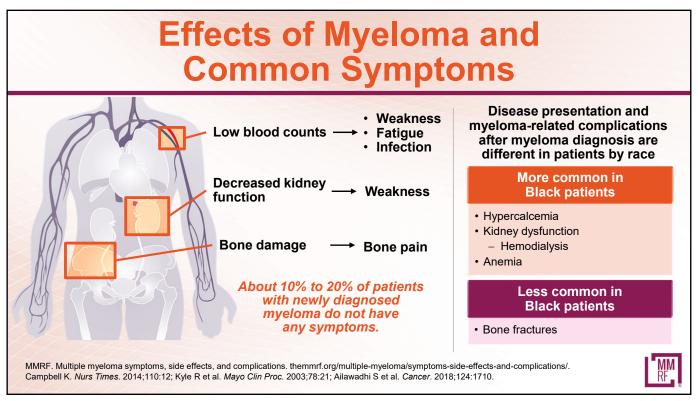


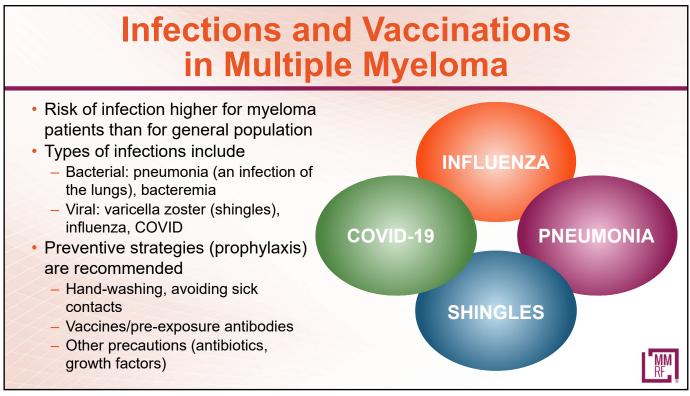


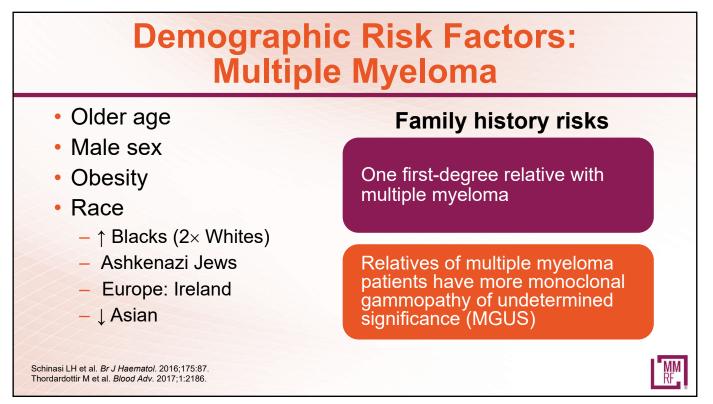




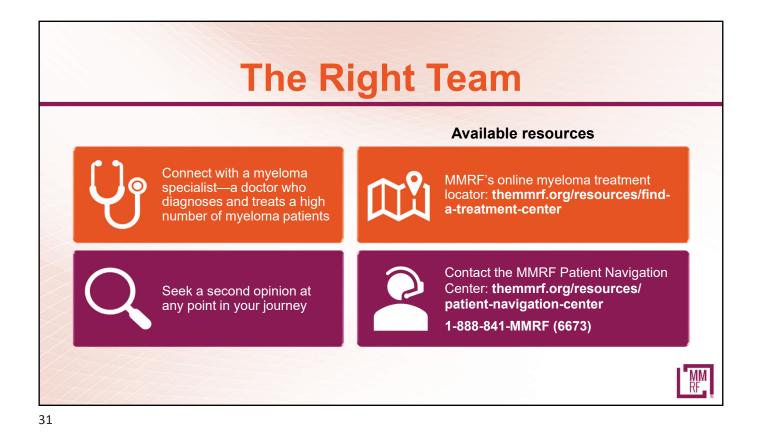


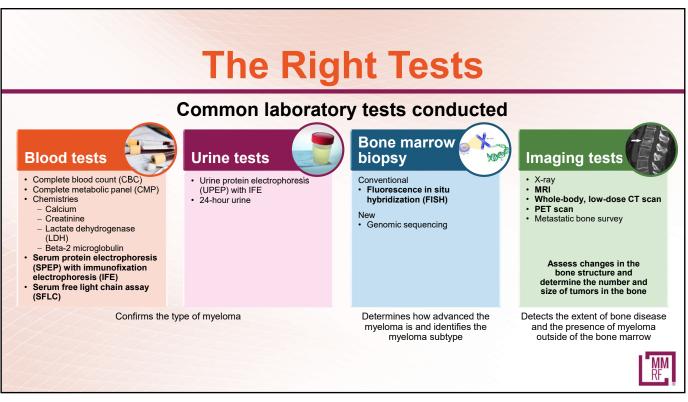


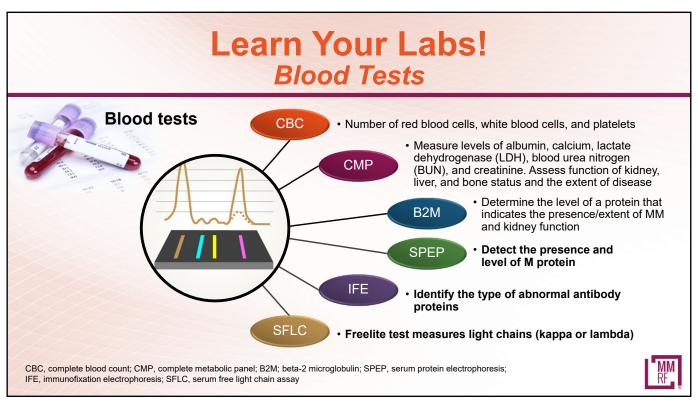




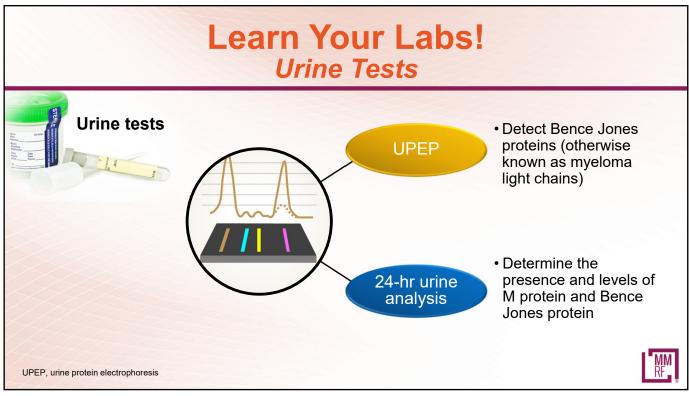


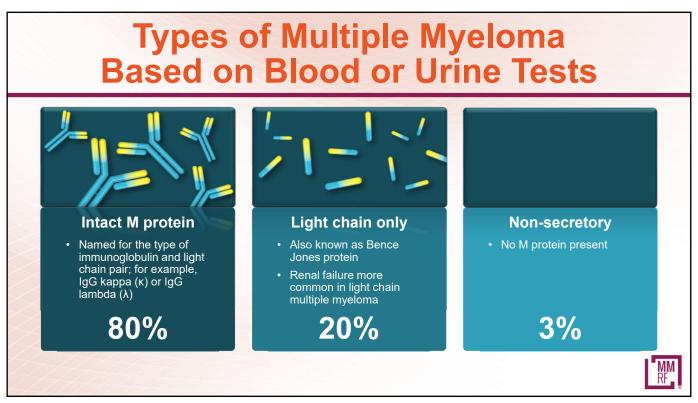


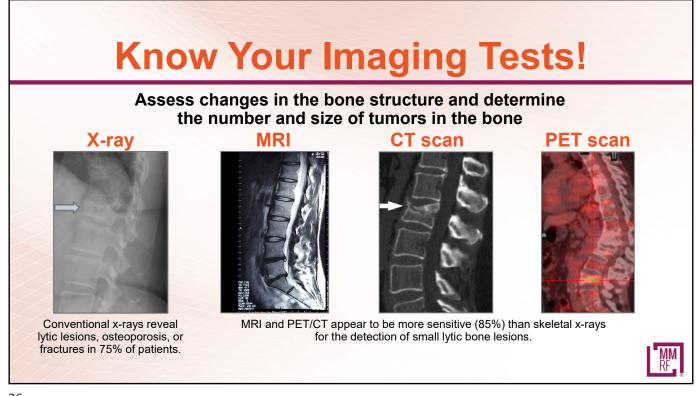


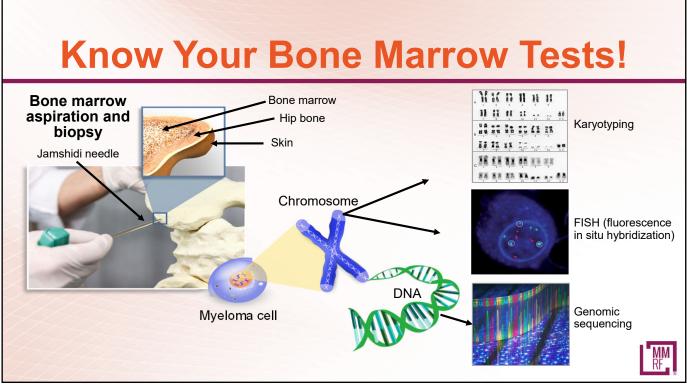


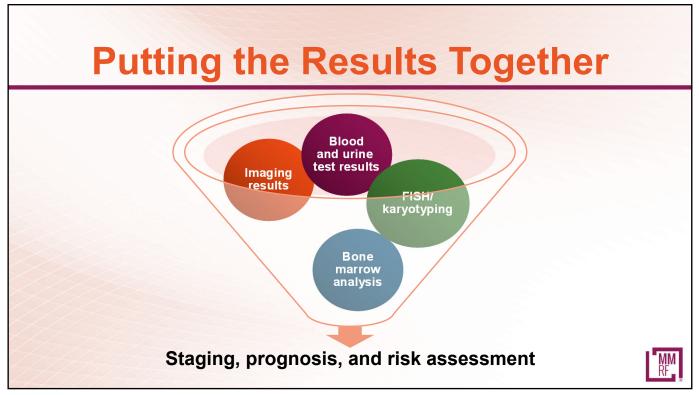
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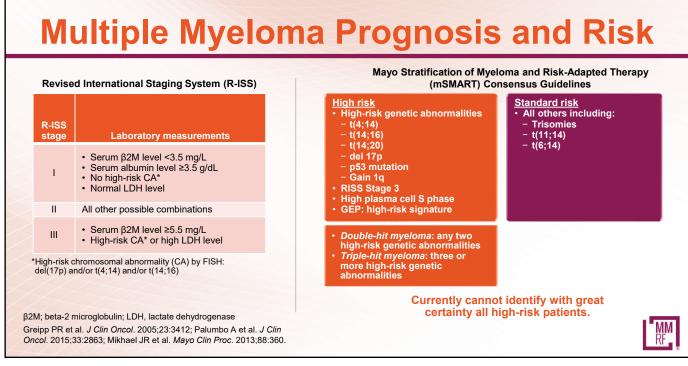




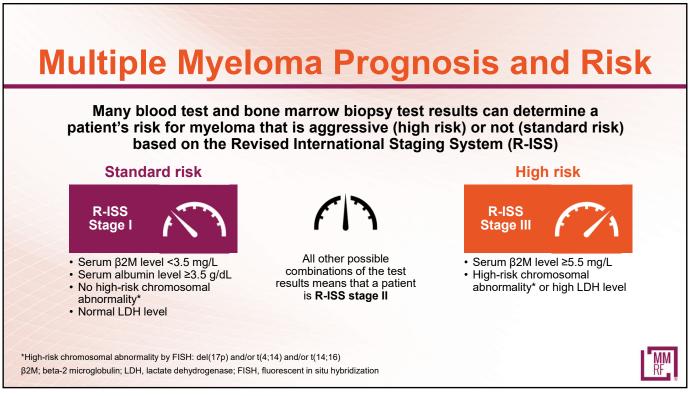




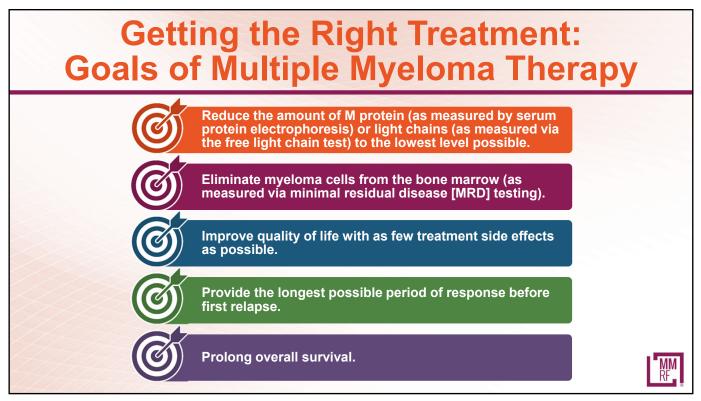


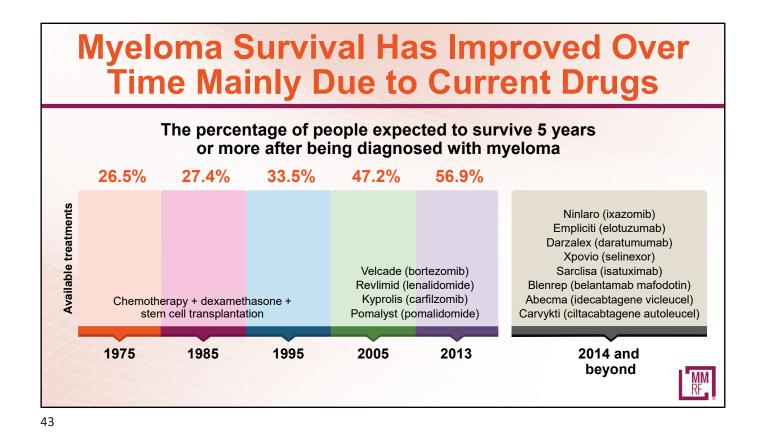


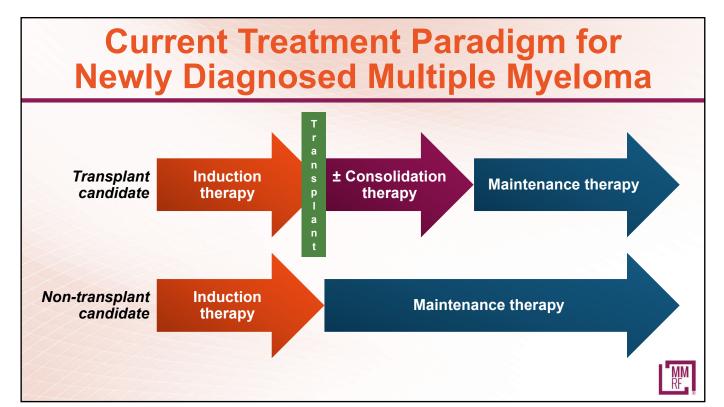


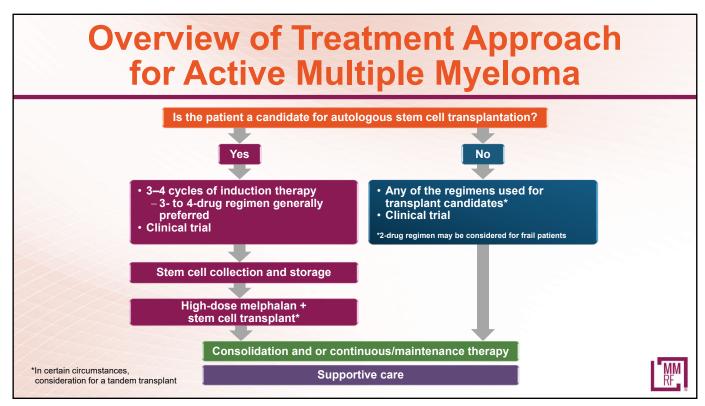


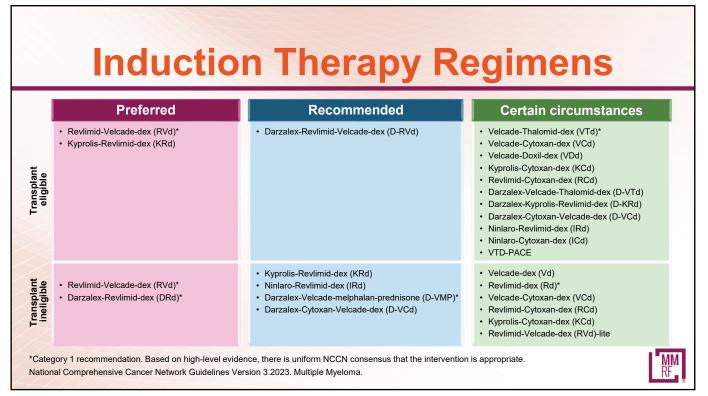
| | The Right Treatment | |
|-------------|--|------|
| Ę | Know the treatment options available to you based on your myeloma subtype at each stage of your disease. | |
| 8 | Be aware of the pros and cons of each option. | |
| F ., | Clearly communicate your treatment goals and concerns to the care team. | |
| | Find clinical trials that are right for you. | |
| 41 | | RF ® |

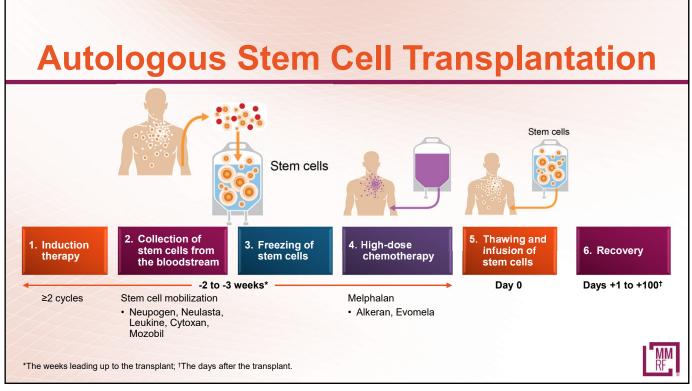






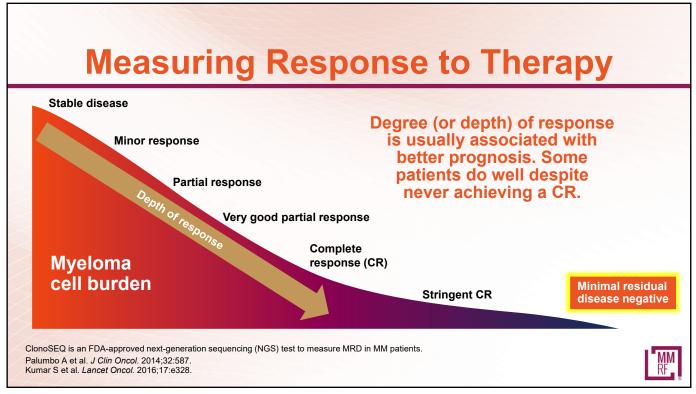




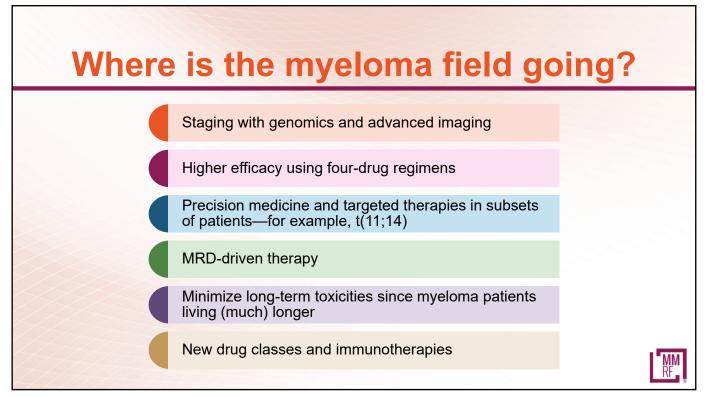


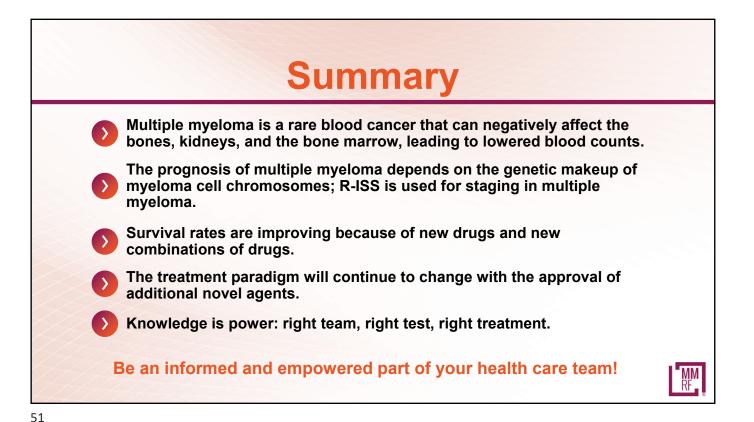
Preferred Certain circumstances • Revlimid* • Ninlaro • Velcade-Revlimid ± dex • Darzalex • Darzalex • Kyprolis-Revlimid

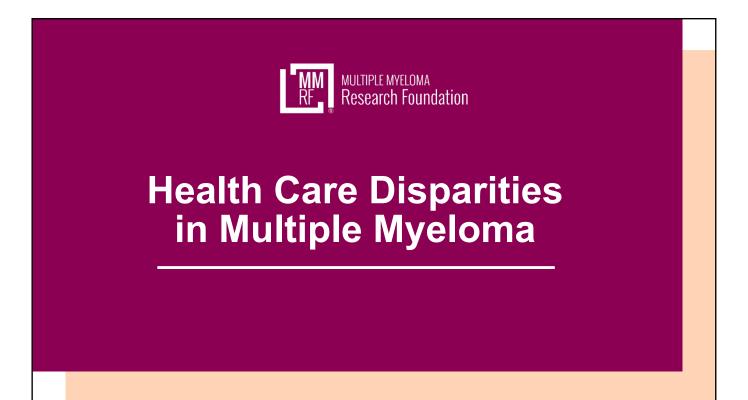
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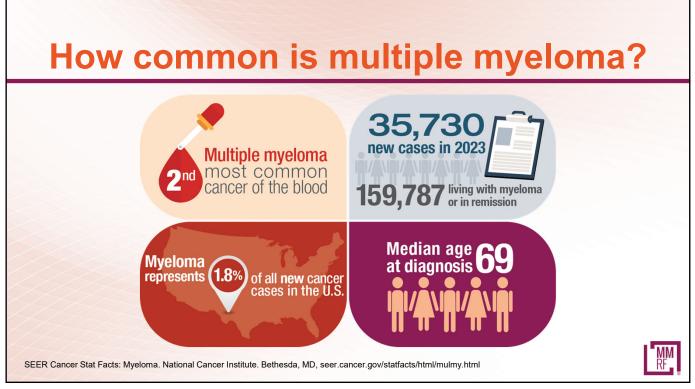




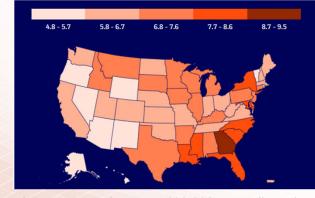








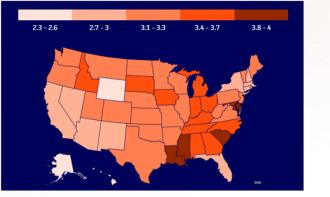
Incidence rates, 2014–2018 Myeloma, by state



Average annual rate per 100,000, age adjusted to the 2000 US standard population.

Data sources: North American Association of Central Cancer Registries (NAACCR), 2021

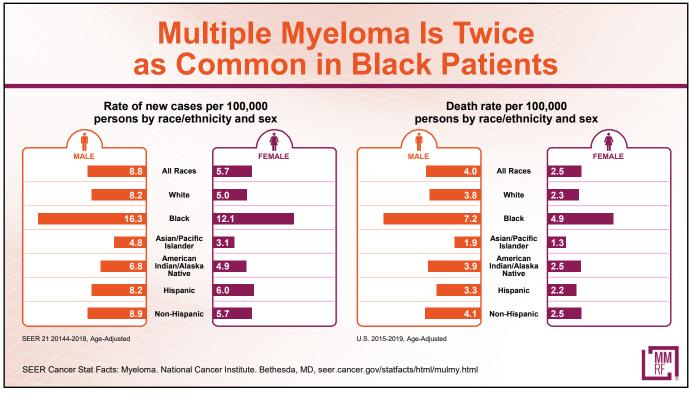
Death rates, 2015–2019 Myeloma, by state



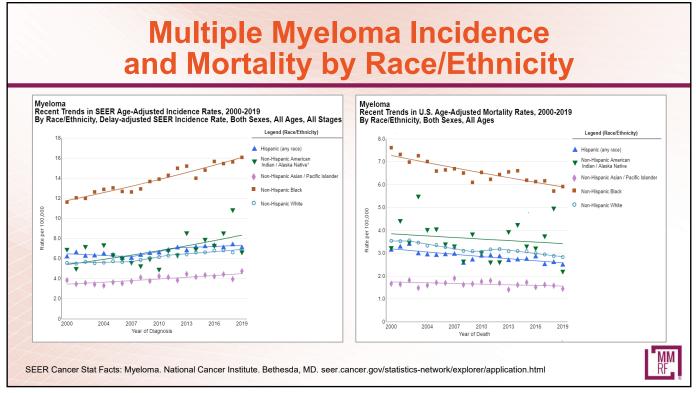
Average annual rate per 100,000, age adjusted to the 2000 US standard population.

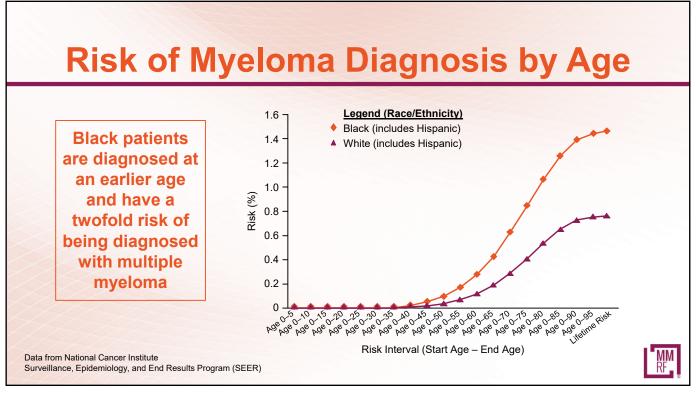
Data sources: National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention, 2021



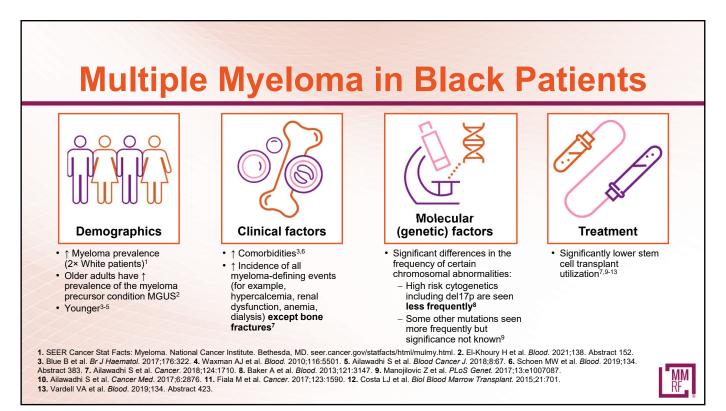






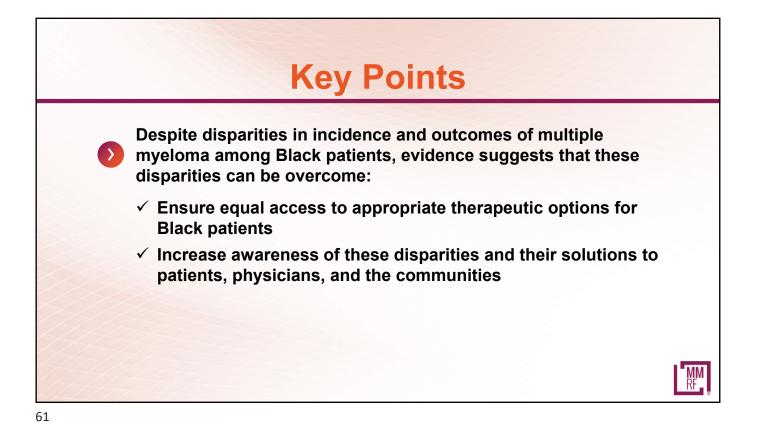


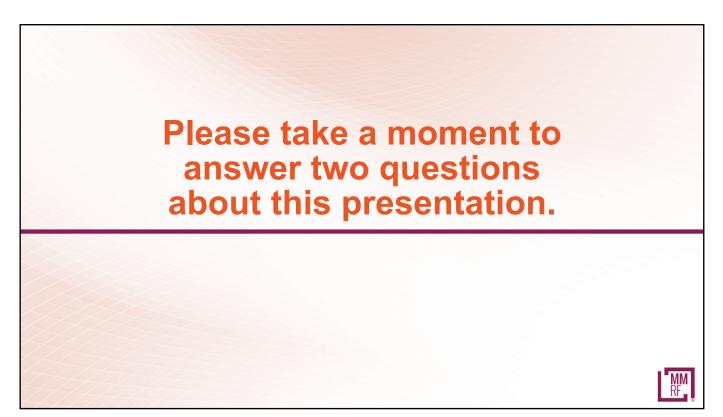


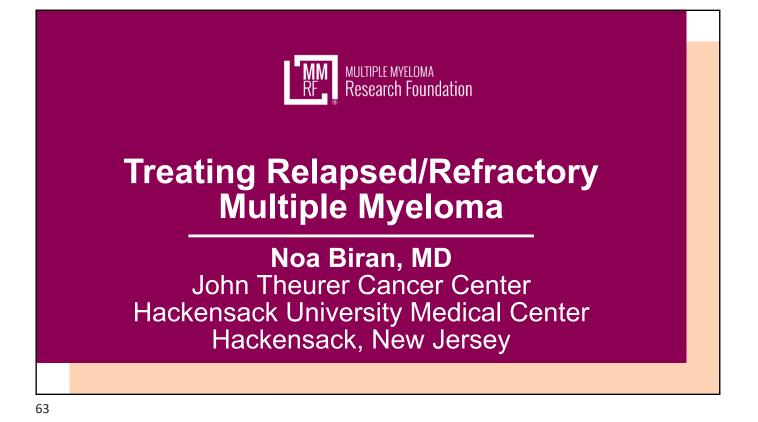


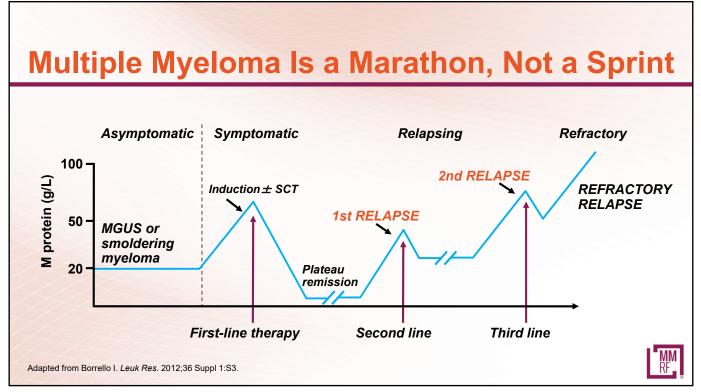
| Several studies have shown that the use of standard therapies tends to be | Treatment type | Use in Black patients | Use in White patients | <i>P</i> value |
|---|------------------------------|-----------------------------|-----------------------------|-------------------|
| significantly lower in Black patients | Triplet therapy | 47% | 61% | 0.004 |
| However, with equal access to standard therapy, the outcome in Black patients is equal or superior to that of | Stem cell transplantation | 30% | 40% | 0.034 |
| White patients | | | | I |

Reasons for Disparities in Outcomes for Black Americans With Multiple Myeloma and Other Cancers Less access to Social determinants of health Structural racism cancer screening services Shortage of African Delayed onset of American physicians and lack of familiarity with Black economic diagnosis and **Comorbid conditions** severity of disease at the time of diagnosis and social conditions Lack of access to the Low enrollment in same level of clinical trials treatment as White patients MM RF



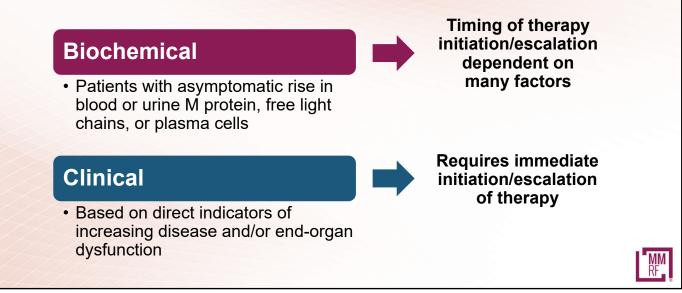


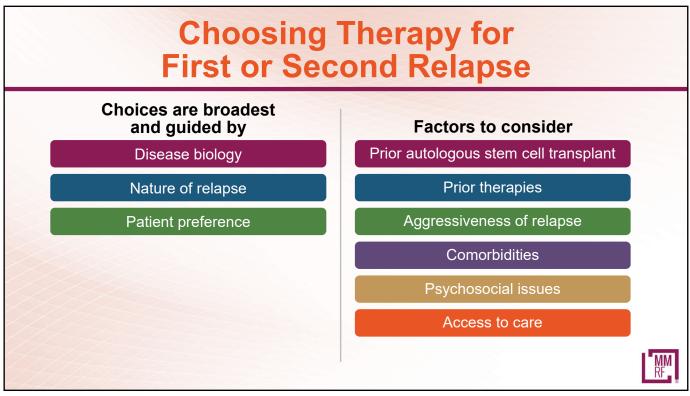






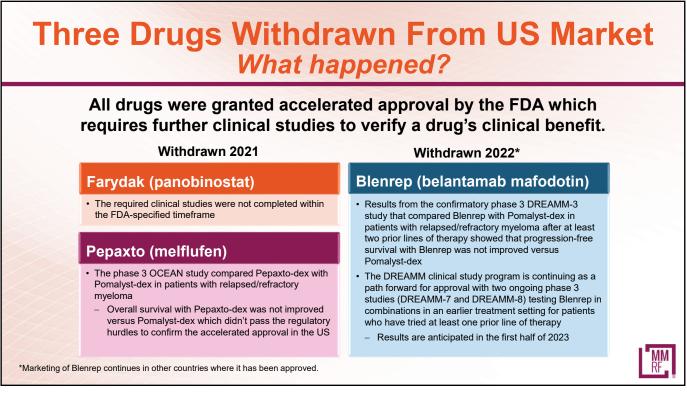
Biochemical Relapse or Clinical Relapse

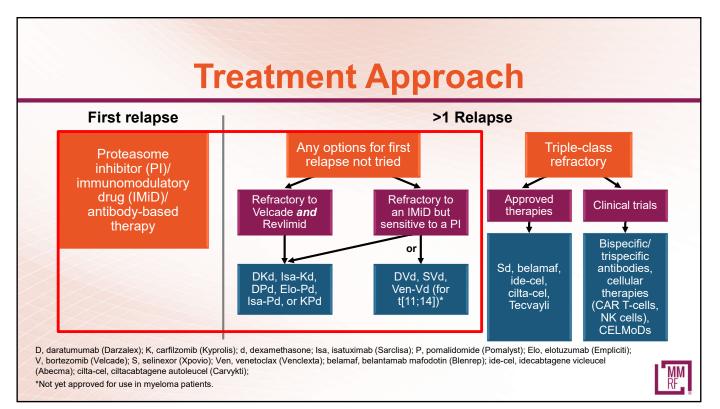




Options for Relapsed/Refractory Disease Continue to Increase

| IMiDs | Proteasome inhibitors | Chemotherapy anthracyclines | Chemotherapy alkylators | Steroids | Novel mechanisms of action | Monoclonal antibodies | Cellular therapy |
|----------------------------|---------------------------|-------------------------------------|---|---------------|--|---|--|
| Thalomid (thalidomide) | Velcade (bortezomib) | Adriamycin | Cytoxan (cyclophosphamide) | Dexamethasone | XPOVIO (selinexor) | Empliciti (elotuzumab) | Abecma (idecabtagene vicleucel) |
| Revlimid (lenalidomide) | Kyprolis (carfilzomib) | Doxil (liposomal doxorubicin) | Bendamustine | Prednisone | Venclexta (venetoclax)* | Darzalex (daratumumab) | Carvykti (ciltacabtagene autoleucel) |
| Pomalyst (pomalidomide) | Ninlaro (ixazomib) | | Melphalan | | Farydak (Panobinostat)† | Sarclisa (isatuximab) | |
| | | | | | Pepaxto (melflufen) † | Blenrep (belantamab mafodotin) [≢] | |
| | | | | | | Tecvayli (teclistamab) [§] | |
| | | | ndrawn from the US m 2; [§] Bispecific antibody | | | | |
| | New fo | rmulations, | new dosing | g, and new o | combinatio | ns, too! | M |







Currently Available Naked Monoclonal Antibodies for One to Three Prior Lines of Therapy

| Drug | | Formulation | Approval | | |
|---------------------------|-------------|---|--|--|--|
| Darzalex (daratumuma | o) | SC once a week for first 8 weeks, then every 2 weeks for 4 months, then monthly | For relapsed/refractory myeloma as a single agent and as a triplet with Revlimid or Velcade or Kyprolis or Pomalyst plus dexamethasone | | |
| Empliciti (elotuzumab) | (Ĵ) | IV once a week for first 8 weeks, then every 2 weeks (or every 4 weeks with pom) | • For relapsed/refractory myeloma as a triplet with Revlimid or Pomalyst and dexamethasone | | |
| Sarclisa (isatuximab) | (Ĵ) | IV once a week for first 4 weeks, then every 2 weeks | For relapsed/refractory myeloma as a triplet with Pomalyst or Kyprolis and dexamethasone | | |
| V, intravenous; SC, s | ubcutaneous | | R | | |

| On | | | Available Agents for Prior Lines of Therapy |
|--|------------|--|---|
| Drug | l | Formulation | Approval |
| Velcade (bortezomib) | F | IV infusion SC injection | For relapsed/refractory myeloma |
| Kyprolis (carfilzomib) | Ð | IV infusionWeekly dosing | For relapsed/refractory myeloma as a single agent, as a doublet with dexamethasone, and as a triplet with Revlimid or Darzalex plus dexamethasone |
| Ninlaro (ixazomib) | Ø | Once-weekly pill | For relapsed/refractory myeloma as a triplet with Revlimid and dexamethasone |
| Revlimid (lenalidomide)* | Ø | Once-daily pill | • For relapsed/refractory myeloma in combination with dexamethasone |
| Pomalyst (pomalidomide)* | \bigcirc | Once-daily pill | • For relapsed/refractory myeloma in combination with dexamethasone |
| XPOVIO (selinexor) | Ø | Once-weekly pill | For relapsed/refractory myeloma as a triplet with Velcade and dexamethasone |
| *Black box warnings: emb /, intravenous; SC, subcut | | xicity; hematologic toxicity (F | evlimid); venous and arterial thromboembolism |

Monoclonal Antibody–Based Regimens for Early Relapse: Darzalex

| | | POLLUX | CASTOR | CANDOR | APOLLO |
|---------|--|--|--|--|--|
| XXXX | Regimens compared | • Darzalex-Revlimid- dex (DRd) vs Rd | Darzalex-Velcade- dex (DVd) vs Vd | Darzalex-Kyprolis- dex (DKd) vs Kd | • Darzalex-Pomalyst- dex (DPd) vs Pd |
| XXXX | Median progression- free survival favored | • DRd: 45 vs 18 months | • DVd: 17 vs 7 months | • DKd: 29 vs 15 months | • DPd: 12 vs 7 months |
| XXXXXXX | Clinical consider- ations | Consider for relapses from Revlimid or Velcade maintenance DRd associated with more upper respiratory infections, low blood white blood cell counts, and diarrhea | Consider for patients who are Revlimid-refractory without significant neuropathy DVd associated with more low blood cell counts | Consider for younger, fit patients who are double-refractory to Revlimid and Velcade DKd associated with more respiratory infections Sever side effects (possibly fatal) in intermediate fit patients 65 and older | Consider in patients who are double-refractory to Revlimid and a proteasome inhibitor (Velcade, Kyprolis, Ninlaro) Severe low white blood cell counts |
| 177 | | | | | MM RF |

Monoclonal Antibody–Based Regimens for Early Relapse: Sarclisa and Empliciti

| | ELOQUENT-2 | ELOQUENT-3 | ICARIA-MM | IKEMA |
|--|---|--|--|--|
| Regimens compared | Empliciti-Revlimid- dex vs Rd | • Empliciti- Pomalyst-dex vs Pd | Sarclisa-Pomalyst-dex vs Pd | • Sarclisa-Kyprolis-dex vs Kd |
| Median progression- free survival favored | • Empliciti-Rd: 19 vs 15 months | • Empliciti-Pd: 10 vs 5 mos | • Sarclisa-Pd: 12 vs 7 mos | • Sarclisa-Kd: 42 vs 21 mos |
| Clinical consider- ations | Consider for non- Revlimid refractory, frailer patients Overall survival benefit with Empliciti-Rd Empliciti-Rd associated with more infections | Consider for patients refractory to Revlimid and a proteasome inhibitor (Velcade, Kyprolis, Ninlaro) | Consider for patients refractory to Revlimid and a proteasome inhibitor (Velcade, Kyprolis, Ninlaro) Sarclisa-Pd associated with severe low white blood cell counts, more dose reductions, upper respiratory infections, and diarrhea | Consider for patients refractory to Revlimid and Velcade Sarclisa-Kd associated with higher MRD negativity rates Sarclisa-Kd associated with severe respiratory infections |
| | | | | MM RF |

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Proteasome Inhibitor– and Immunomodulatory Drug–Based Regimens for Early Relapse

| | OPTIMISMM | ASPIRE | TOURMALINE-MM1 | BOSTON |
|--|---|---|---|--|
| Regimens compared | Velcade-Pomalyst- dex (VPd) vs Vd | • Kyprolis-Revlimid- dex (KRd) vs Rd | • Ninlaro-Rd (IRd) vs Rd | • XPOVIO-Velcade- dex (XPO-Vd) vs Vd |
| Median progression-free survival favored | • VPd: 11 vs 7 months | • KRd: 26 vs 17 months | • IRd: 21 vs 15 months | • XPO-Vd: 14 vs 9 months |
| Clinical considerations | Consider for relapse on Revlimid VPd associated with more low blood counts, infections, and neuropathy than Pd | KRd associated with more upper respiratory infections and high blood pressure than Rd | IRd an oral regimen Gastrointestinal toxicities and rashes Lower incidence of peripheral neuropathy | • XPO-Vd associated with low platelet counts and fatigue with triplet, but less neuropathy than the Vd |
| | | | | MM RF |

| Important Considerations for Use of Monoclonal Antibodies | | | | | |
|---|--|--|--|--|--|
| Darzalex | | | | | |
| Infusion reactions Less with SC use Risk of shingles Use appropriate vaccination Increased risk of hypogamma-globulinemia and upper respiratory infections Bactrim prophylaxis IVIG support | | | | | |

Important Considerations for Use of Proteasome Inhibitors

Velcade

- Risk of peripheral neuropathy (PN; numbness, tingling, burning sensations and/or pain due to nerve damage)
- Avoid in patients with severe existing PN
- Reduced with subcutaneous once-weekly dosing
- High risk of shingles
- Use appropriate vaccinationNo dose adjustment for kidney
- issues; adjust for liver issues

Kyprolis

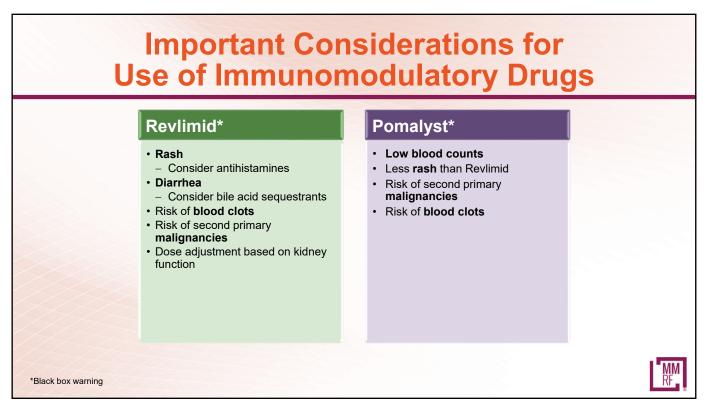
- Less PN than Velcade
- High risk of shingles
- Use appropriate vaccination
 Monitor for heart, lung, and kidney side effects
- Use with caution in older patients with cardiovascular risk factors
- High blood pressure
- No dose adjustment for kidney issues; adjust for liver issues

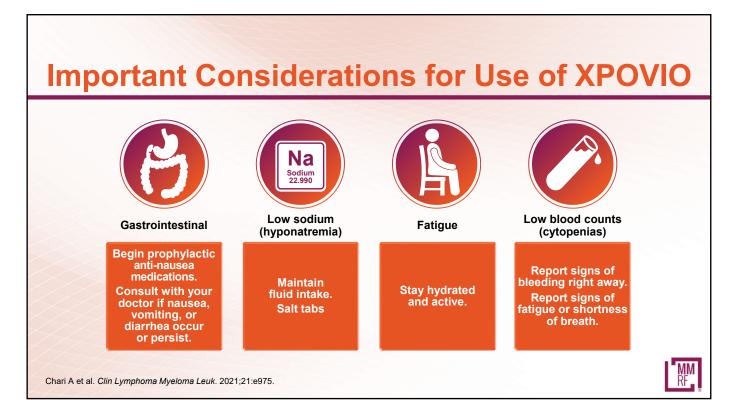
Ninlaro

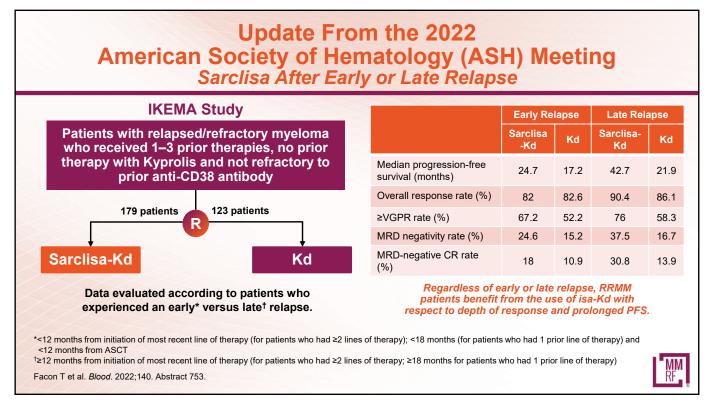
- Less $\ensuremath{\text{PN}}$ than Velcade
- High risk of **shingles** – Use appropriate vaccination
- Ose appropriate vaccination
 Monitor for rashes and gastrointestinal (GI) side effects
- GI effects occur early
 Needs to be taken at least 1 hour before or 2 hours after a meal

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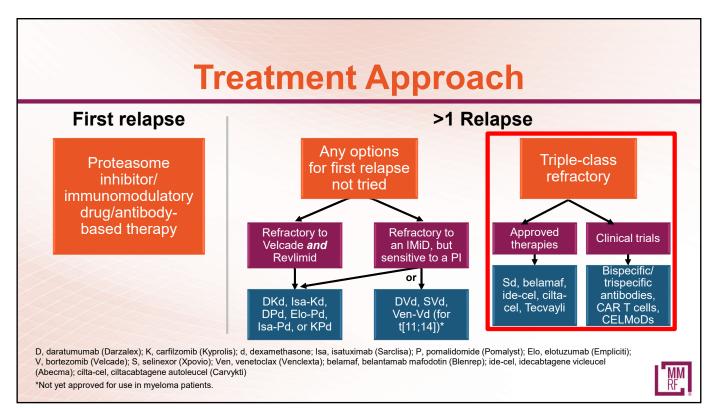
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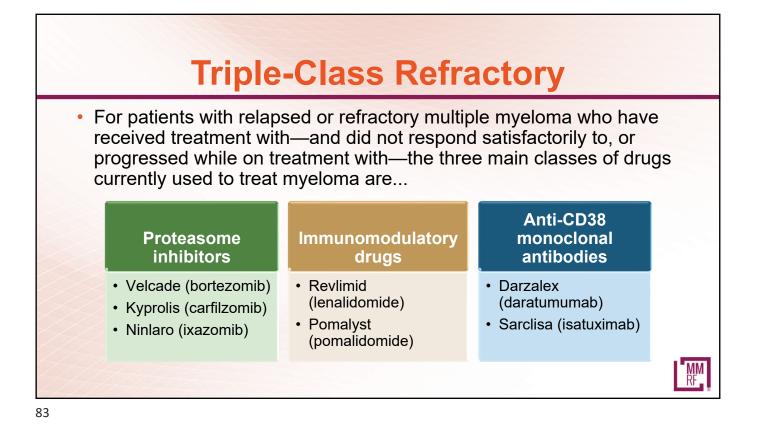












Currently Available Drugs for Triple-Class Refractory Myeloma

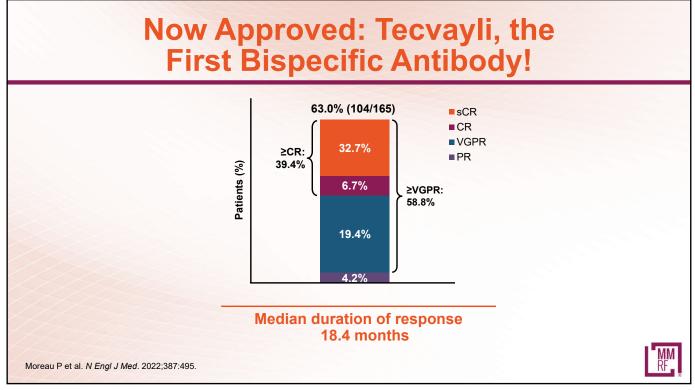
| Nuclear export inhibitor | XPOVIO (selinexor) | | Twice-weekly pill | For relapsed/refractory myeloma in combination with dexamethasone (after at least 4 prior therapies and |
|---|---|---|---|--|
| | , , | | | whose disease is refractory to at least 2 Pls, at least 2 IMiDs, and an anti-CD38 mAb |
| Chimeric antigen receptor (CAR) T cell | Abecma (idecabtagene vicleucel)* | Ð | 300 to 460 × 10 ⁶ genetically modified autologous CAR T cells in one or more infusion bags | For relapsed/refractory myeloma (after 4 or more prior lines of therapy, including an IMiD, a PI, and an anti-CD38 mAb |
| CAR T cell | Carvykti (ciltacabtagene autoleucel)† | Ð | 0.5 to 1.0 × 10 ⁶ genetically modified autologous CAR T cells/kg of body weight | For relapsed/refractory myeloma (after 4 or more prior lines of therapy, including a PI, an IMiD, and an anti-CD38 mAb |
| Bispecific antibody | Tecvayli (teclistamab)‡ | Ð | Step-up dosing [§] the first week then once weekly thereafter by subcutaneous injection | For relapsed/ refractory myeloma (after 4 or more prior lines of therapy, including an IMiD, a PI, and an anti-CD38 mAb) |

XPOVIO + Dexamethasone in Relapsed/Refractory Myeloma

| | No. patients with ≥PR (%)¹ |
|---|-------------------------------|
| Total | 32 (26) |
| Previous therapies to which the disease was refractory, n (%) | |
| Velcade, Kyprolis, Revlimid, Pomalyst, and Darzalex | 21 (25) |
| Kyprolis, Revlimid, Pomalyst, and Darzalex | 26 (26) |
| Velcade, Kyprolis, Pomalyst, and Darzalex | 25 (27) |
| Kyprolis, Pomalyst, and Darzalex | 31 (26) |
| Additional analyses showed clinical benefit XPOVIO regardless of patient age and kidney fu | |

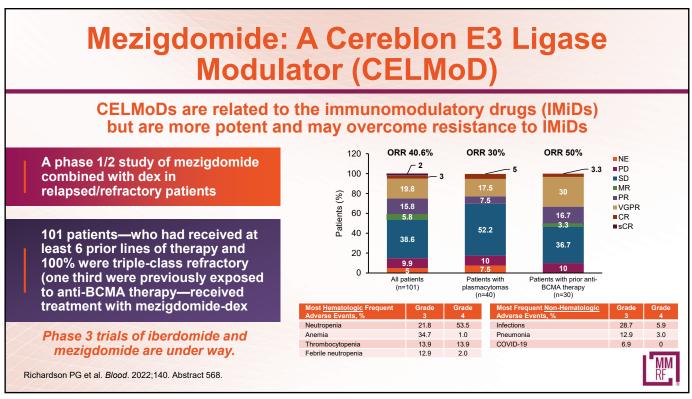
1. STORM Trial. Chari A et al. N Engl J Med. 2019;381:727. 2. Gavriatopoulou M et al. Presented at the 17th International Myeloma Workshop; September 12-15, 2019. Abstract FP-110. 3. Vogl DT et al. Presented at the 17th International Myeloma Workshop; September 12-15, 2019. Abstract FP-111.

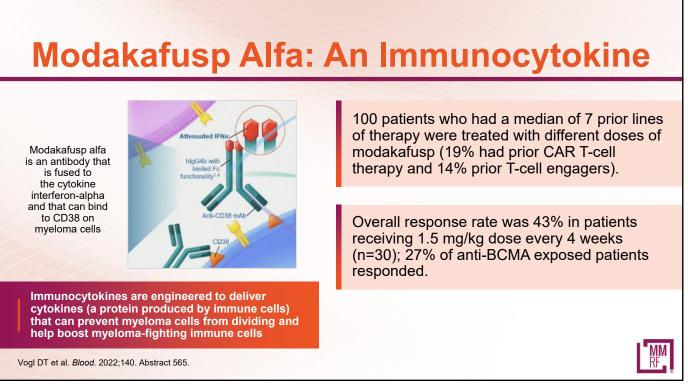
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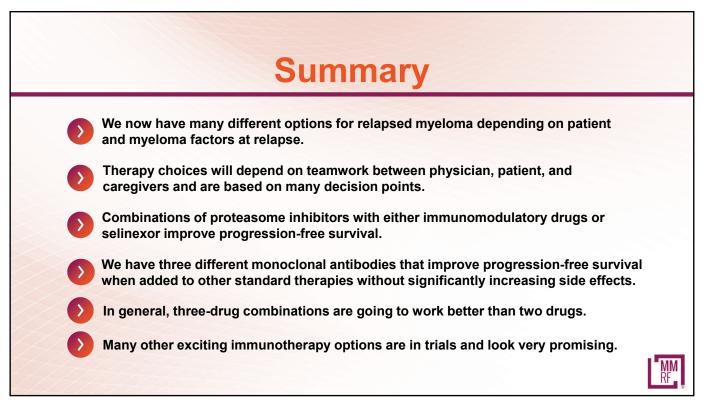


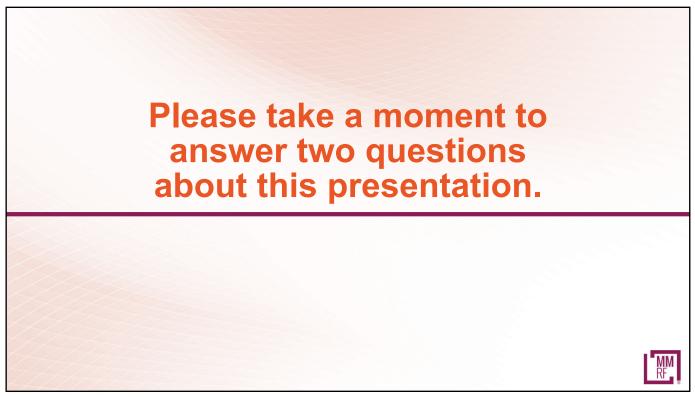
MM RF

| Em | erging Trea | tment Option | ns |
|----|---|---|----|
| r | Cereblon E3 ligase nodulators (CELMoDs) | Immunocytokines | |
| G | More bispecific antibodies (BCMA, SCPR5D, Fc5H targets) | More chimeric antigen receptor (CAR) T-cell therapies | |
| | | | RF |

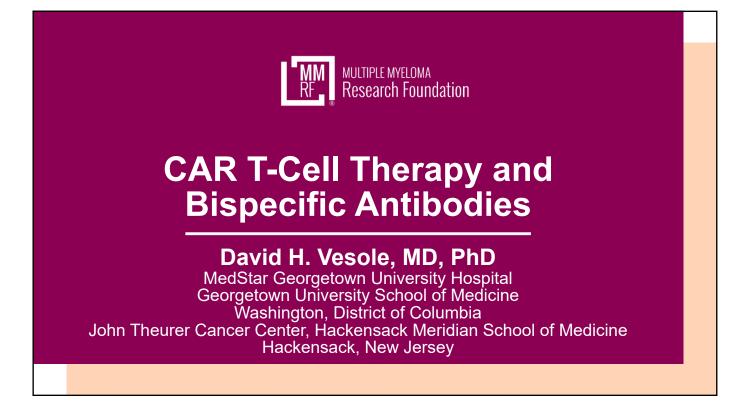


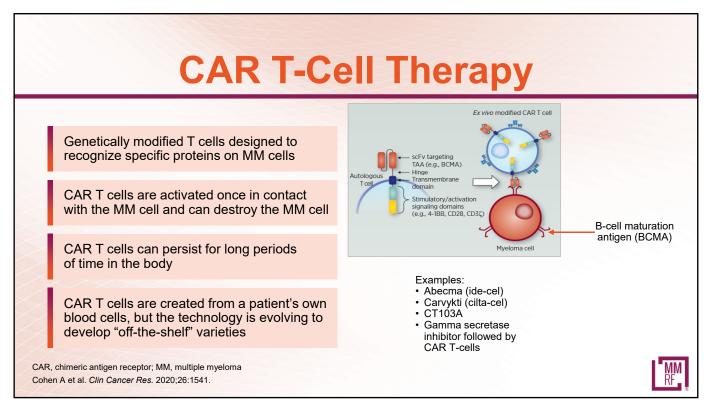


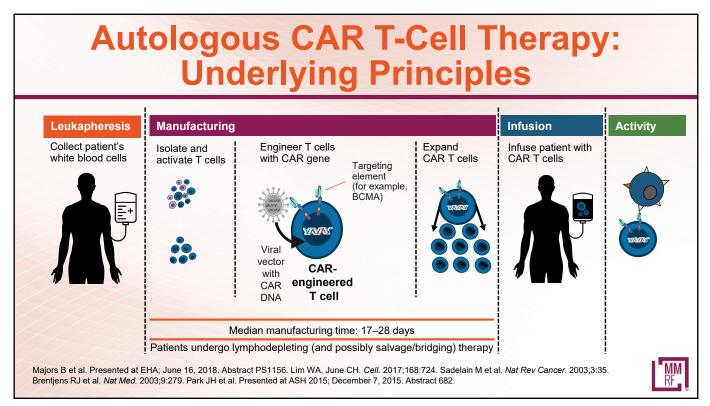




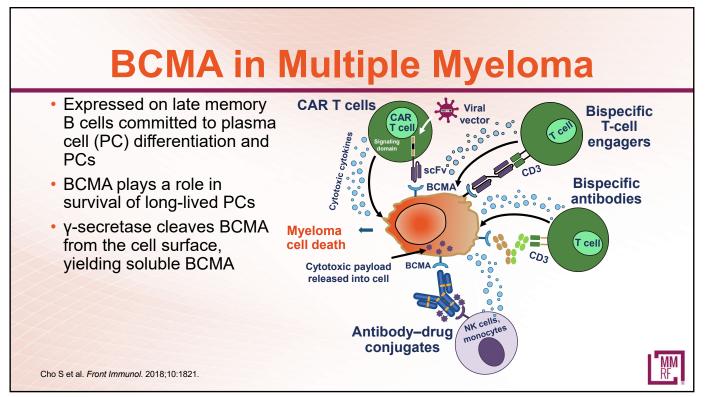




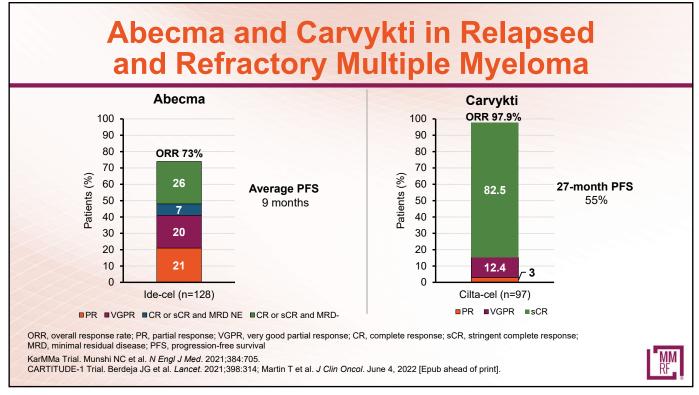






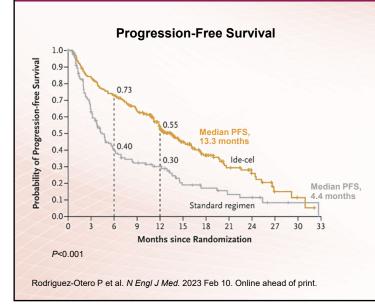


| Drug | | Formulation | Approval |
|---|---|--|---|
| Abecma idecabtagene vicleucel)* | Ð | 300 to 460 × 10 ⁶ genetically modified autologous CAR T cells in one or more infusion bags | For relapsed/refractory myeloma (after 4 or more prior lines of therapy, including an IMiD, a PI, and an anti-CD38 mAb) |
| Carvykti (ciltacabtagene autoleucel)† | Ð | 0.5 to 1.0 × 10 ⁶ genetically modified autologous CAR T cells/kg of body weight | For relapsed/refractory myeloma (after 4 or more prior lines of therapy, including a PI, an IMiD, and an anti-CD38 mAb) |
| Black box warning: cy lymphohistiocytosis/m Black box warning: cy HLH/MAS; prolonged | tokine release acrophage ac tokine release cytopenia | proteasome inhibitor; mAb, monoclonal antiboo syndrome; neurologic toxicities; hemophagoc tivation syndrome (HLH/MAS); prolonged cyto syndrome; neurologic toxicities; Parkinsonism | yic penia |



| Stud | ies in Earl | ier Stag | e of Disease | Stu | dies in Fre | ontline | Setting |
|-------------|-------------|----------|--|-------------|-------------|---------|---|
| Study | Agent | Phase | Patient Populations/ Study Design | Study | Agent | Phase | Patient Populations Study Design |
| KarMMa-2 | Abecma | 2 | Multiple cohorts, including early | KarMMa-4 | Abecma | 1 | High-risk, newly diagnosed MM |
| CARTITUDE-2 | Carvykti | 2 | relapse Multiple cohorts, including early relapse | CARTITUDE-5 | Carvykti | 3 | VRd → Carvykti vs VRd → Rd in newly diagnosed, transplant-ineligible |
| KarMMa-3 | Abecma | 3 | Abecma vs SoC in patients with 2-4 prior lines | CARTITUDE-6 | Comulati | 3 | patients Trial of DVRd → Carvykti vs DVRd – |
| CARTITUDE-4 | Carvykti | 3 | Carvykti vs SoC in patients with 1-3 | CARTTUDE-0 | Carvykti | 3 | ASCT in newly diagnosed MM |

Abecma or Standard Regimens in Relapsed and Refractory Multiple Myeloma



| Treatment Response | | | | | | |
|-----------------------------------|-------------------|--------------------------------|--|--|--|--|
| | Abecma (n=254) | Standard regimen (n=132) | | | | |
| Overall response (%)* | 71 | 42 | | | | |
| Complete response (%) | 39 | 5 | | | | |
| Best overall response (%) | | | | | | |
| Stringent complete response | 35 | 5 | | | | |
| Complete response | 3 | 1 | | | | |
| Very good partial response | 22 | 10 | | | | |
| Partial response | 11 | 27 | | | | |
| Minimal response | 2 | 7 | | | | |
| Stable disease | 12 | 36 | | | | |
| Progressive disease | 9 | 8 | | | | |
| Median duration of response (mos) | 14.8 | 9.7 | | | | |
| * <i>P</i> <0.001 | | Ľ | | | | |

| C | AR T: Ex | pecte | d Toxicit | ies |
|---|-----------------------------------|------------------------|---|---|
| | ~ | | CRS | ICANS |
| (∘},@ | $(\mathcal{F},\mathcal{F})$ | Onset | 1–9 days after CAR T-cell infusion | 2–9 days after CAR T-cell infusion |
| | | Duration | 5–11 days | 3–17 days |
| Cytokine release syndrome (CRS) | Neurotoxicity (ICANS) | Symptoms | Fever Difficulty breathing Dizziness Nausea Headache Rapid heartbeat Low blood pressure | Headache Confusion Language disturbance Seizures Delirium Cerebral edema |
| 60 | | Management | Actemra (tocilizumab)CorticosteroidsSupportive care | Antiseizure medicationsCorticosteroids |
| Cytopenias | Infections | | CT consensus; [†] Based on vasopressor ears; ^{II} Only when concurrent with CRS | r; [‡] For adults and children >12 years; |
| CANS, immune effector cell-associa (iao X et al. <i>J Exp Clin Cancer Res.</i> Shah N et al. <i>J Immunother Cancer</i> . | 2021;40(1):367. Lee DW et al. Bio | ol Blood Marrow Transp | <i>lant.</i> 2019;25:625; | MI RF |

| - | | |
|---|--------------------------------------|--------------------------------------|
| Cellular therapies | CAR T-cell therapy | Autologous stem cell transplantation |
| Patient's cells collected | Yes | Yes |
| Types of cells collected | T cells* | Stem cells [†] |
| Collected cells are genetically engineered in a lab | Yes | No |
| Patient given chemotherapy before cells are infused back into patient | Yes, lymphodepleting therapy | Yes, melphalan |
| When in the course of myeloma is this <i>usually</i> done? | After multiple relapses | As part of initial treatment |
| Side effects of treatment | Cytokine release syndrome; confusion | Fatigue, nausea, diarrhea |

| BCMA CAR T-Cell Therapies: Summary | | | | | | | |
|---|--|---|--|--|---------------------------------|---|--|
| | CARTITUDE-1 ¹ Carvykti Phase 1 | KarMMa² Abecma Phase 2 | CRB-402 ³ bb21217 Phase 1 | LUMMICAR-2 ⁴ CT053 Phase 1b | PRIME⁵ BCMA-101 Phase 1/2 | GC012F ⁶ Dual CAR T-Cell BCMA + CD19 | |
| Patients, n | 97 | 128 | 72 | 20 | 98 | 19 | |
| Median prior regimens, n | 6 | 6 | 6 | 5 | 7 | 5 | |
| Triple refractory, % | 87.6 | 84 | 64 | 85 | | | |
| CAR T-cell therapy dose | 0.75 × 10 ⁶ (0.5–1.0 × 10 ⁶) | 450 × 10 ⁶ (150–450 × 10 ⁶) | 150, 300, 450 × 10 ⁶ | 1.5–1.8/ 2.5-3.0 × 10 ⁸ | 0.75–15 × 10 ⁶ | 1.0–3.0 × 10 ⁵ | |
| ORR, % | 97.9 | 73 | 69/81* | 94 | 57 .1 [§] | 94.7 | |
| CR/sCR, % | 82.5 | 33 | 36/41* | 25 | 21.4 [§] | 84.2 | |
| CRS (all grades), % | 94.8 | 84 | 75 | 77/83‡ | 28 | 95 | |
| CRS (grade ≥3), % | 5.4 | 4 | 4† | 0/0‡ | 0 | 11 | |
| Neurotoxicity (all grades), % | 20.6 | 18 | 15 | 15/17‡ | 7 | 0 | |
| Neurotoxicity (grade ≥3), % | 10.3 | 4 | 4 | 8/0‡ | 2 | 0 | |

*After manufacturing change. [†]Two grade 5 events: 1 on Day 15 with grade 3 NT and 1 on Day 6 with afib and cardiac arrest. [‡]Data for each dosing cohort. [§]ORR for patients receiving CAR T-cells manufactured using nanoplasmid technology (n=28).

1. Martin. ASH 2021. Abstract 549. 2. Anderson. ASCO 2021. Abstract 8016. 3. Raje. ASH 2021. Abstract 548. 4. Kumar. ASH 2020. Abstract 133. 5. Costello. ASH 2021. Abstract 3858. 6. Jiang. ASCO 2021. Abstract 8014.

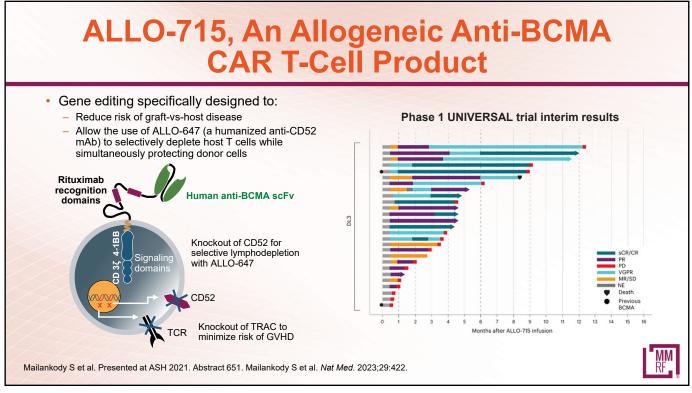
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GPRC5D-Targeted CAR T Cells for Myeloma

Clinical Responses in All Patients With or Without Previous BCMA-Directed Therapies

| | All Pa | itients | Previous B | CMA Therapies | No Previous B | CMA Therapies |
|---|------------------------------|---|------------------------------|--|--------------------------|--|
| Response | All Dose Levels (n=17) | 25–150 × 10 ⁶ CAR T Cells (n=12) | All Dose Levels (n=10) | 25–150 × 10 ⁶ CAR T Cells (n=6) | All Dose Levels (n=7) | 25–150 × 10 ⁶ CAR T Cells (n=6) |
| Partial response or better (%) | 71 | 58 | 70 | 50 | 71 | 67 |
| Very good partial response or better (%) | 59 | 42 | 60 | 33 | 57 | 50 |
| Complete response or better (%) | 35 | 25 | 40 | 33 | 29 | 17 |
| Negativity for MRD in bone marrow* (%) | 47 | 50 | 30 | 33 | 71 | 67 |
| By flow cytometry (×10 ⁵) | | | | | | |
| | | | | | | |
| nkody S et al. N Engl J Med. 2022.38 | 7.1196 | | | | | |

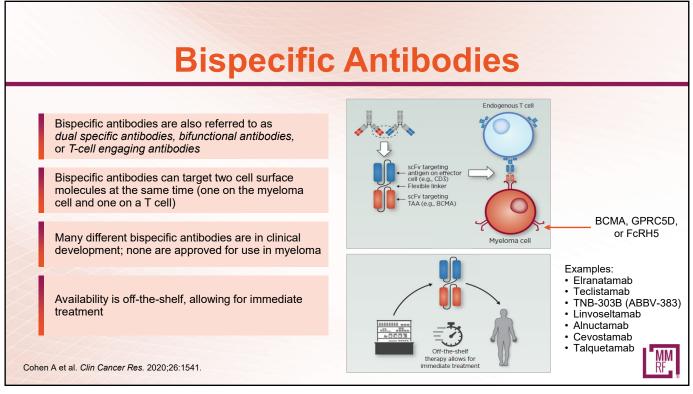
MM RF



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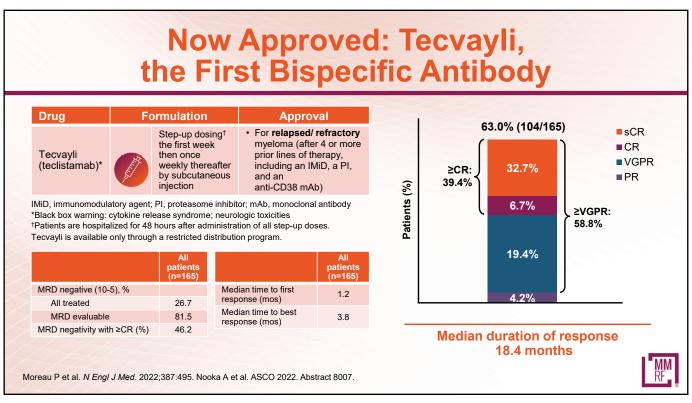
| | BMS-986354 ^[1] | FasT CAR-T GC012F ² | BMS-986393 ^[3] |
|---------------------|--|--|--|
| Features | Targets BCMA with a shortened manufacturing time through the NEXT-T process | Targets BCMA <u>and</u> CD19 Manufacturing process that takes as little as 24 hours | Targets GPRC5D |
| Trial Details | Phase 1 trial of 55 patients with RRMM with a median of 5 prior lines of therapy | Phase 1 trial of 13 newly diagnosed high-risk MM patients ineligible for stem cell transplant | Phase 1 trial of 17 heavily pretreated patients with RRMM, including those who relapsed from BCMA CAR-T therapy |
| Clinical Results | CRS occurred in 80% of patients with only 1 patient experiencing ≥G3. Neurotoxicity occurred in 10.9% of patients (one grade 4). Overall response rate was 98.1% with 57.4% achieving ≥VGPR (29.6% ≥CR). | 100% of patients achieved ≥VGPR (69% sCR) All patients achieved MRD negativity (by EuroFlow). CRS observed in 23% of patients (all low grade). | Neutropenia and thrombocytopenia most frequent grade 3/4 adverse events Additional adverse events include skin- and nail-related; dysgeusia/dysphagia; CRS; ICANS 86% evaluable patients responded including 7 of 11 patients treated with prior BMCA-targeted treatment |

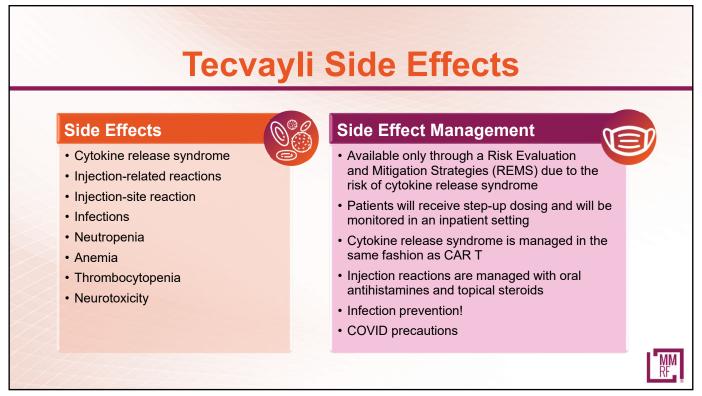




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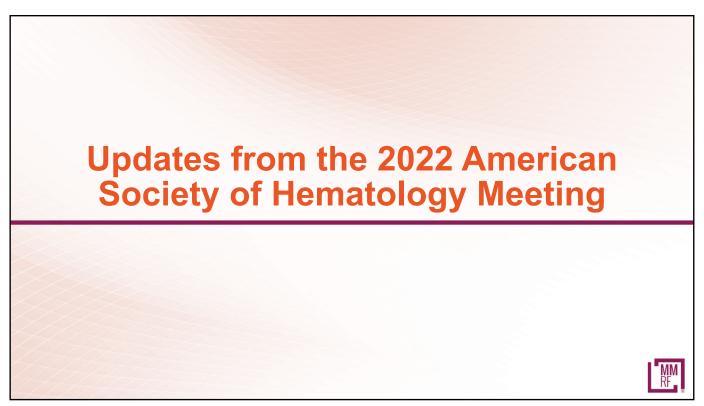
| Bispecific Antibody Agents | | | | | | |
|--|------------------------------|--|--|--|--|--|
| Bispecific Antibody | Target (on MM cell × T cell) | | | | | |
| Tecvayli (teclistamab) | BCMA × CD3 | | | | | |
| Elranatamab | BCMA × CD3 | | | | | |
| Linvoseltamab | BCMA × CD3 | | | | | |
| Alnuctamab | BCMA × CD3 | | | | | |
| ABBV-383 | BCMA × CD3 | | | | | |
| Talquetamab | GPRC5D × CD3 | | | | | |
| Forimtamig (RG6234) | GPRC5D × CD3 | | | | | |
| Cevostamab | FcRH5 × CD3 | | | | | |
| ein-coupled receptor family C group 5 member D | | | | | | |

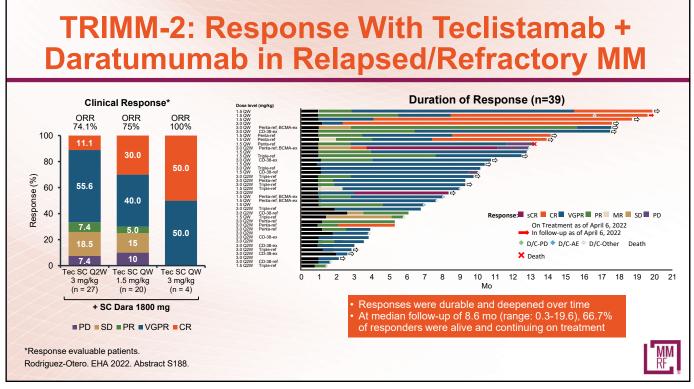




Similarities and Differences Between CAR T-Cell Therapy and Bispecific Antibodies

| | CAR T-cell therapy | Bispecific antibody | |
|-----------------------------------|---|--|--|
| Approved product Abecma, Carvykti | | Tecvayli | |
| Efficacy | ++++ | +++ | |
| How given | One-and-done | IV or SC, weekly to every 3 weeks until progression | |
| Where given | Academic medical centers | Academic medical centers | |
| Notable adverse events | CRS and neurotoxicity | CRS and neurotoxicity | |
| Cytokine release syndrome | +++ | ++ | |
| Neurotoxicity | ++ | + | |
| Availability | Wait time for manufacturing | Off-the-shelf, close monitoring for CRS and neurotoxicity | |
| Advantages | Personalized Targeted immunocytotoxicity Single infusion ("one and done") Potentially persistent | Off the shelf Targeted immunocytotoxicity No lymphodepletion Minimal steroids | |
| Disadvantages | FACT-accredited center required (hospitalization likely required) CRS and neurotoxicity; requires ICU and neurology services Dependent on T-cell health (manufacturing failures) Requires significant social support; caregiver required \$\$\$\$ | Initial hospitalization required CRS and neurotoxicity possible Dependent on T-cell health (T-cell exhaustion) Requires continuous administration \$\$\$ | |





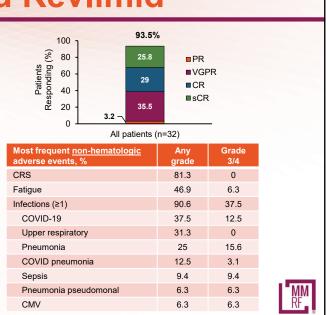
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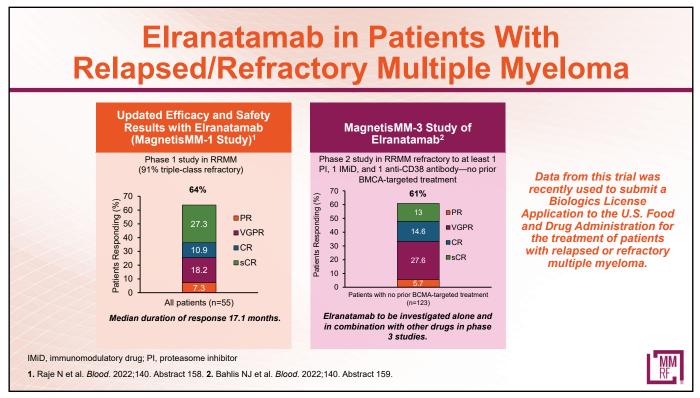
Tecvayli in Combination With Darzalex and Revlimid

Phase 1b study (MajesTEC-2) in RRMM with 1–3 prior lines of therapy (including an IMiD and a PI)

32 patients—who had received at least 2 prior lines of therapy—received treatment with the triplet with Tecvayli at 2 different doses (0.72 mg/kg and 1.5 mg/kg) subcutaneously

IMiD, immunomodulatory drug; PI, proteasome inhibitor Searl E et al. *Blood*. 2022;140. Abstract 160.



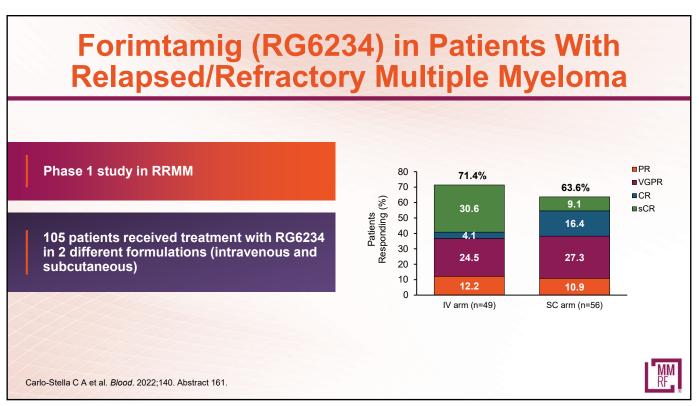


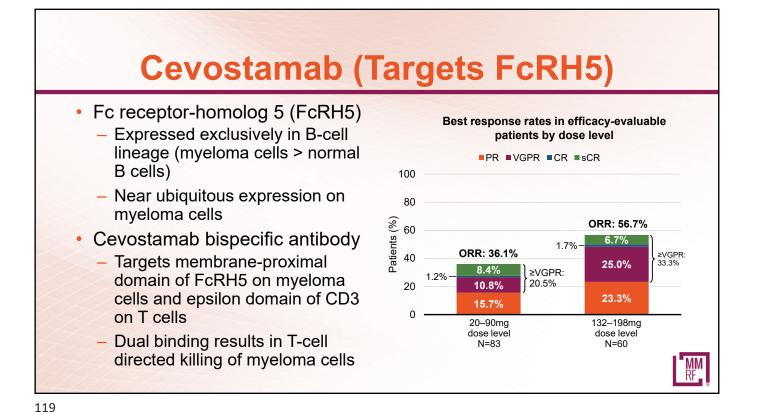


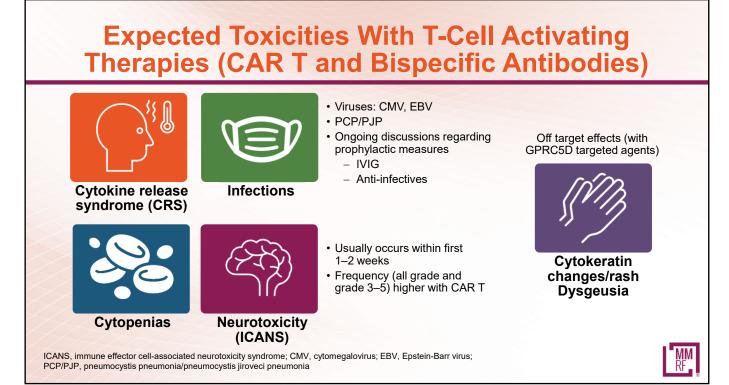
Phase 1 Study of Alnuctamab in Patients With Relapsed/Refractory Multiple Myeloma

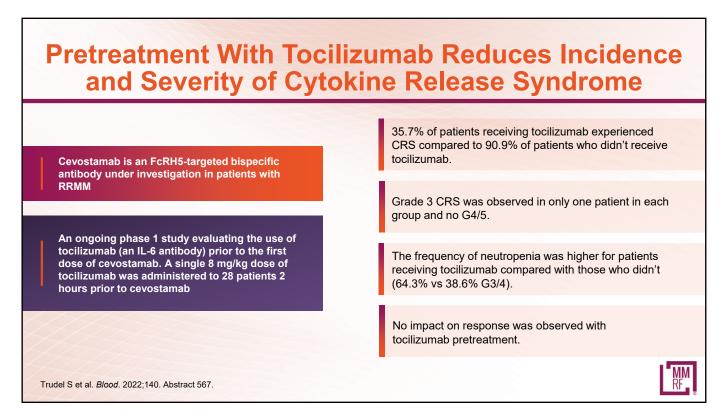
| Intravenous Formulation Results | | Subcutaneous Formulation Results | | | | |
|---|-------------------------|--|---------|-------------------|--------------|-----|
| | IV Alnuctamab (n=70) | ≈ ⁸⁰] 53% | | 65% | ■PR ■VGPR | |
| Median follow up (months) | 8.0 | st 60 | 41% | 19 | ■CR | |
| Overall response rate (%) | 39 | 16 - 04 dii | 14 | 27 | ∎sCR | |
| Median duration of response (months) | 33.6 | 200 000 000 000 000 000 000 000 | 14 Z | 19 | | |
| Responses ongoing (%) | 48 | All dose | | | ?6) | |
| Median progression-free survival (months) | | (n=55) Most frequent adverse et | - | Dose Any grade | Grade 3/4 | |
| All patients | 3.1 | Hematologic | | | | |
| Responders | 36.4 | Anemia | | 38 | 25 | |
| Nonresponders | 1.7 | Neutropenia | | 37 | 32 | |
| | | Thrombocytopenia | | 24 | 9 | |
| | | Non-hematologic | | | - | |
| | | CRS | | 53 | 0 | |
| | | Infections | | 34 | 9 | |
| | | ICANS | | 3 | 0 | 115 |
| | | | | | | |

| Talquetamab in Relapsed/Refractor | | | | om | a |
|---|---|------------------------------|---------------|-------------------------------------|-----------------------------|
| Phase 1/2 study (MonumenTAL-1) in RRMM | 40 40 40 40 40 40 40 40 23.8 9.8 25.9 14.7 14.7 | 73.1 20 12 24 15 |) .4 .8 | 62.7% 17.6 5.9 29.4 9.8 | ■PR ■VGPR ■CR ■sCR |
| 288 patients—with no prior T-cell redirecting therapies—received treatment with talquetamab at 2 different doses (0.4 mg/kg | 0.4 mg/kg SC weekly (n=143) | v every 2 (n=1 | weeks re | rior T-cell direction | ng/kg |
| every week and 0.8 mg/kg every other week) subcutaneously. | Most frequent adverse events, % | Any grade | Grade 3/4 | Any grade | Grade 3/4 |
| | Hematologic | | | | |
| Data from this trial was recently used to submit a | Anemia | 44.8 | 31.5 | 39.3 | 24.8 |
| Biologics License Application to the US Food and | Neutropenia | 34.3 | 30.8 | 28.3 | 22.1 |
| Drug Administration for the treatment of patients | Lymphopenia | 28 | 25.9 | 26.2 | 25.5 |
| with relapsed or refractory multiple myeloma. | Thrombocytopenia | 27.3 | 20.3 | 26.9 | 16.6 |
| | Infections | 57.3 | 16.8 | 50.3 | 11.7 |
| MiD, immunomodulatory drug; PI, proteasome inhibitor Chari A et al. <i>Blood</i> . 2022;140. Abstract 157. | | | | | MM RF |





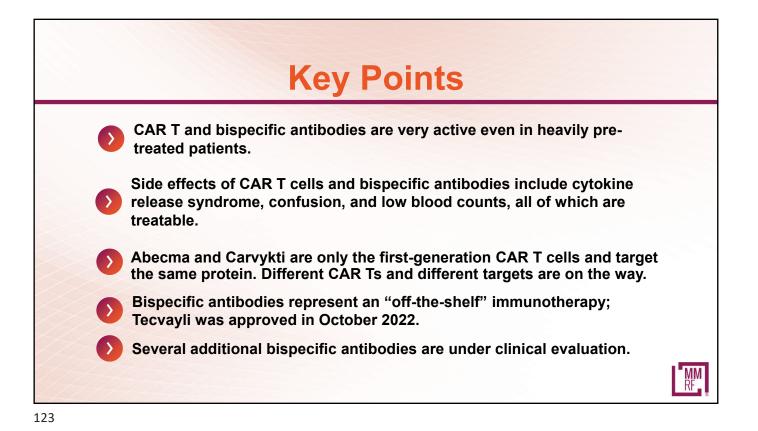


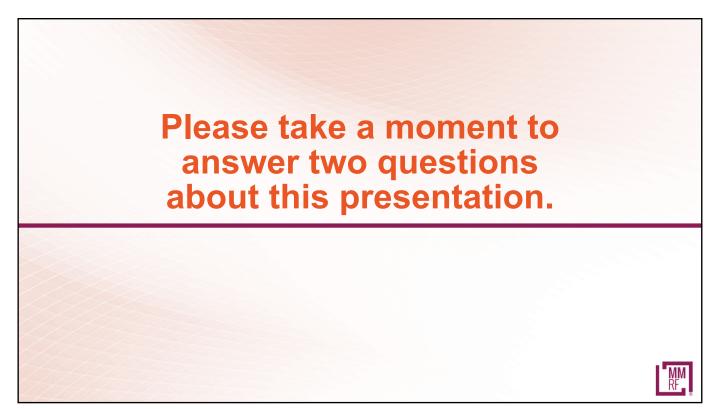


BCMA-Targeted Bispecific Agents: Summary

| | MajesTEC-1 ¹ Teclistamab Phase 1/2 | MagnetisMM-1 Elrantamab ² Phase 1 | REGN-5458 ³ Phase 1/2 | AMG-701 ⁴ (Pavurutamab) Phase 1b | ABBV-383⁵ (TNB-383B) Phase 1 |
|-------------------------------|---|--|-------------------------------------|---|------------------------------------|
| Patients, n | 165 | 55 | 73 | 85 | 118 |
| Median prior regimens, n | 5 | 6 | 5 | 6 | 5 |
| Dosing | SC weekly (RP2D) | SC weekly | Q2 wk after W16 | IV weekly | IV Q3 wk |
| ORR, % | 62.0 | 70 | 51 (75 at high dose) | 26 | 53-81 in cohorts |
| CR/sCR, % | 28.7 | 30 | 43 (16 at high dose) | 9.7 | 13–39 in cohorts |
| CRS (all grades), % | 71.5 | 87.3 (↓ with priming and pre-meds) | 38 | 65 | 54 |
| CRS (grade ≥3), % | 0.6 | 0 | 0 | 9 | 3 |
| Neurotoxicity (all grades), % | 12.7 | — | 4 | — | 5.1 |
| Neurotoxicity (grade ≥3), % | 0 | — | 0 | — | — |
| Notes | 9-mo PFS: 58.5% | 22% received prior BCMA-targeted tx | | | Allowed for CrCl 30 |

1. Moreau. ASH 2021. Abstract 896. 2. Sebag. ASH 2021. Abstract 895. 3. Zonder. ASH 2021. Abstract 160. 4. Harrison. ASH 2020. Abstract 181. 5. Kumar. ASH 2021. Abstract 900.

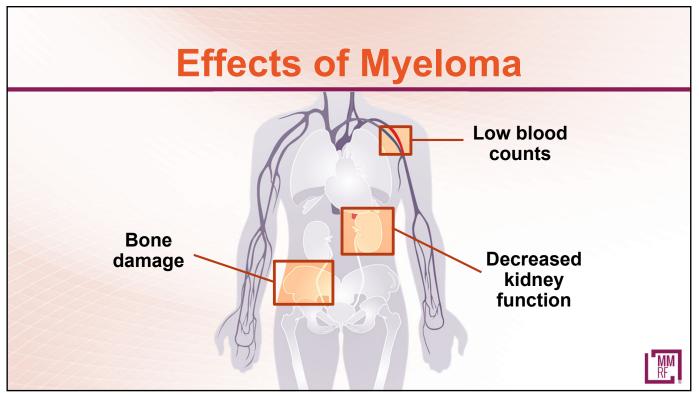


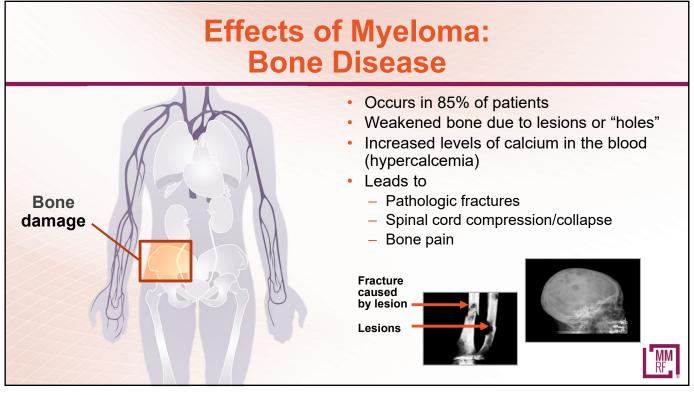




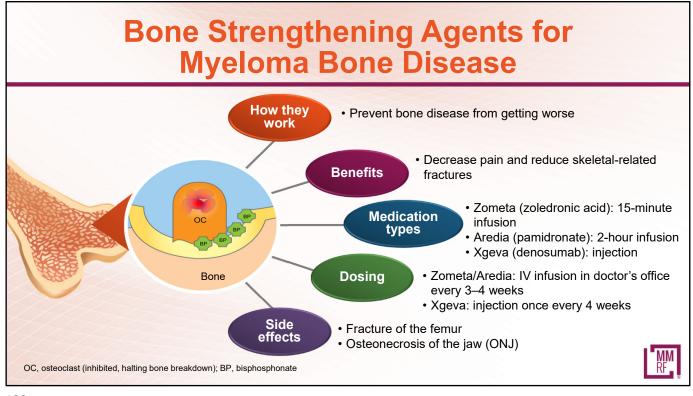
Supportive Care

Susan M. Kumka, RN, MSN, APN John Theurer Cancer Center Hackensack University Medical Center Hackensack, New Jersey Ann McNeill, RN, MSN, APN John Theurer Cancer Center Hackensack University Medical Center Hackensack, New Jersey





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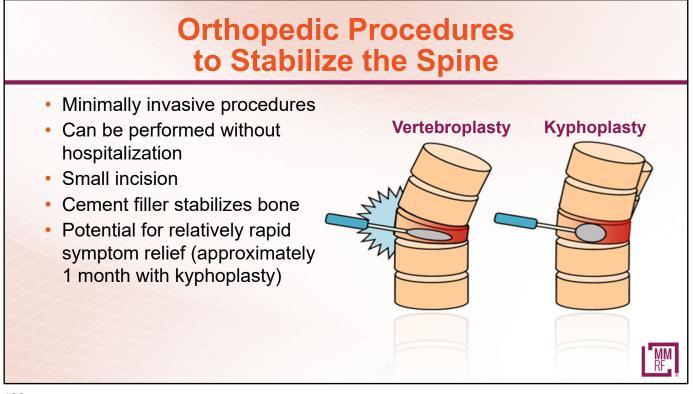


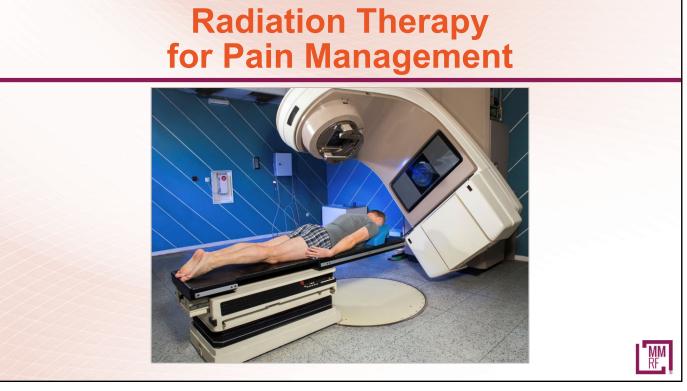
- Complete major dental work before
 beginning treatment for bone disease
- · Practice good oral hygiene
- Schedule regular dental visits
- Let your dentist know that you are receiving treatment for bone disease
- Keep your doctor informed of dental issues/need for dental work
- Be attentive! ONJ seems to be related to the length of time patients are on treatment for bone disease

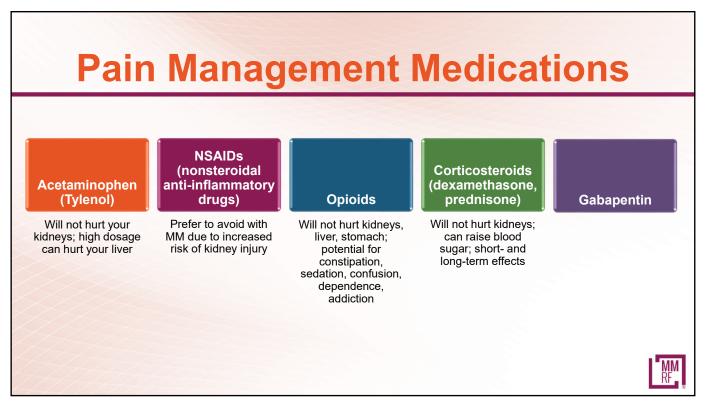
ONJ, osteonecrosis of the jaw

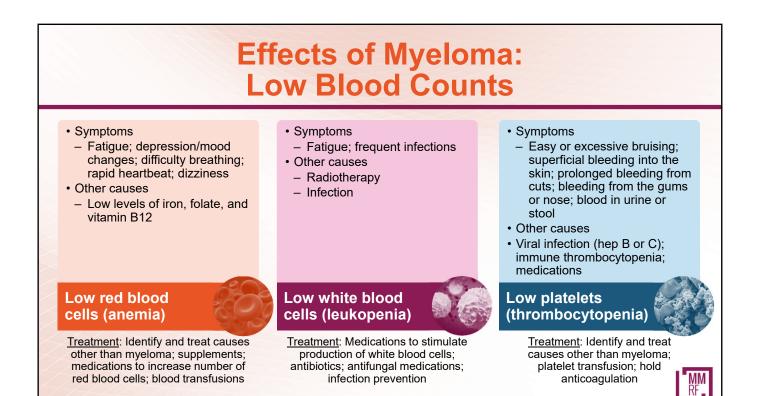


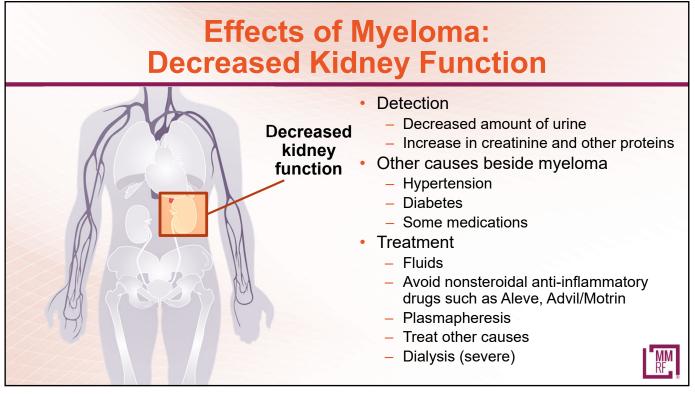
MM RF

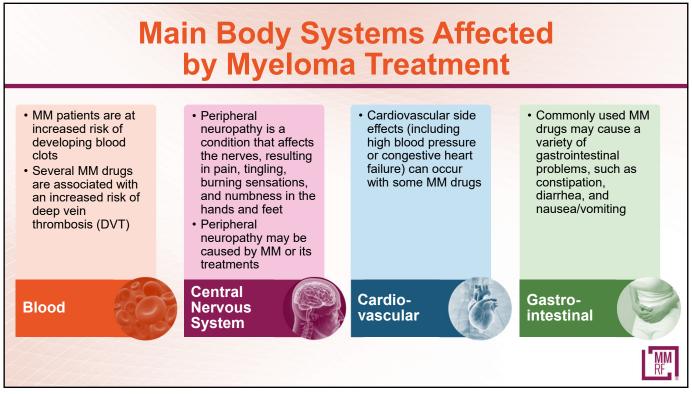












Class: Immunomodulatory Drugs Side Effects and Management

Revlimid*

- Potential for blood clots
- Reduced blood counts
- Rash
- Fatigue
- Muscle pain or muscle cramping
- Diarrhea
- Small chance of second new cancers when given with melphalan

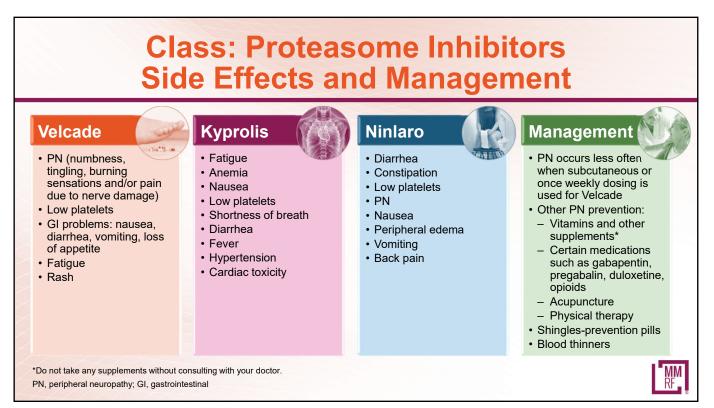
*Black box warning. Gl, gastrointestinal

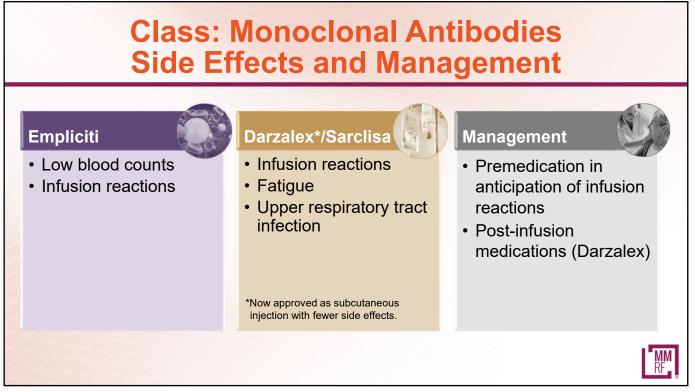
Pomalyst*

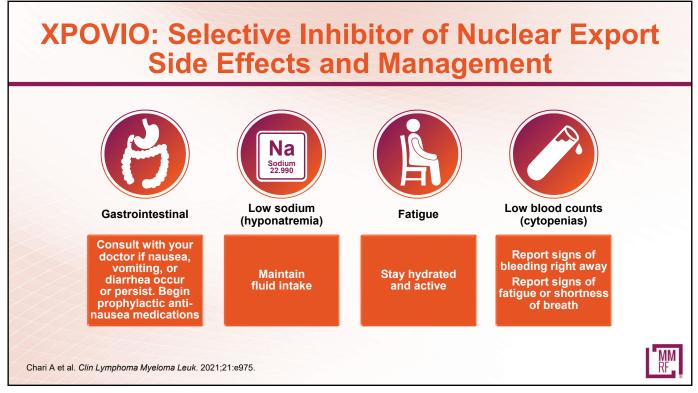
- Fatigue and weakness
- Reduced blood counts
- GI effects
- Shortness of breath
- Upper respiratory infection
- Back pain
- Fever
- Blood clots
- Mental fogginess

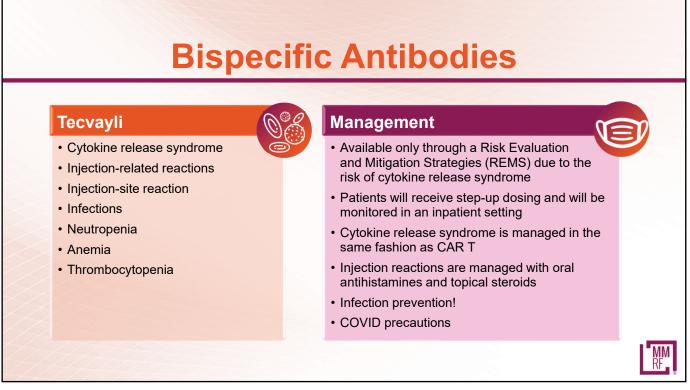
Management

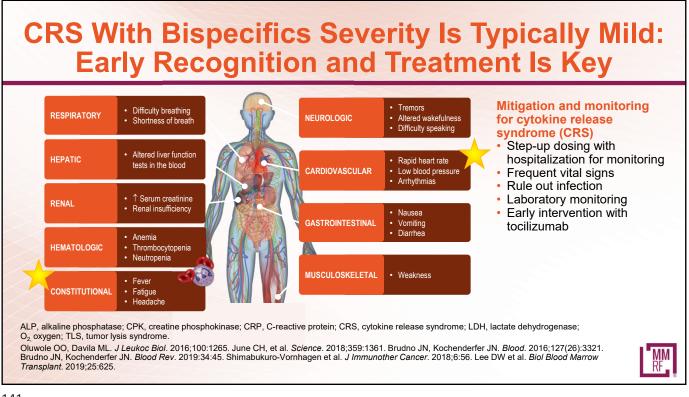
- Blood thinners
- Tonic water/increased fluid intake for cramps
- GI toxicity: avoid dairy; fibers (Metamucil); Imodium; colestipol; cholestyramine; dose reduction
- Sleep hygiene, regular exercise, dose reduction for fatigue



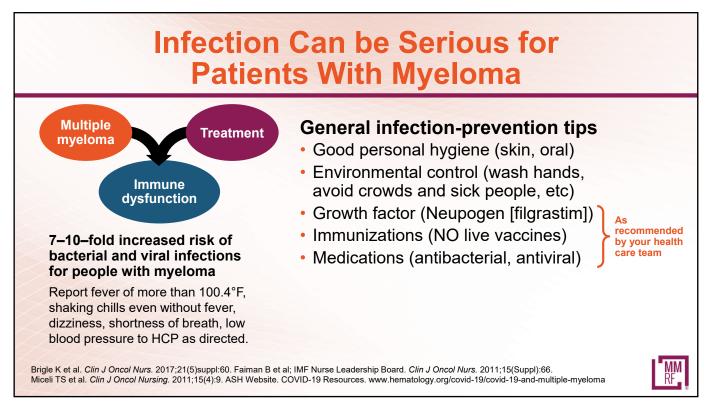




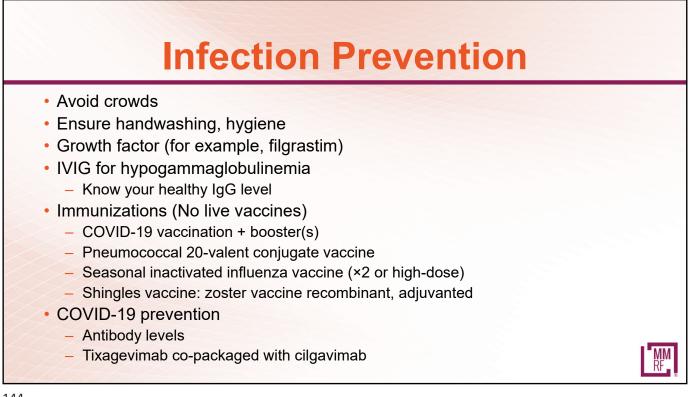


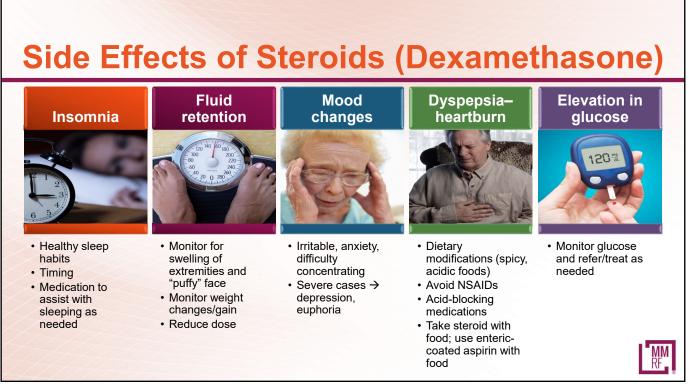


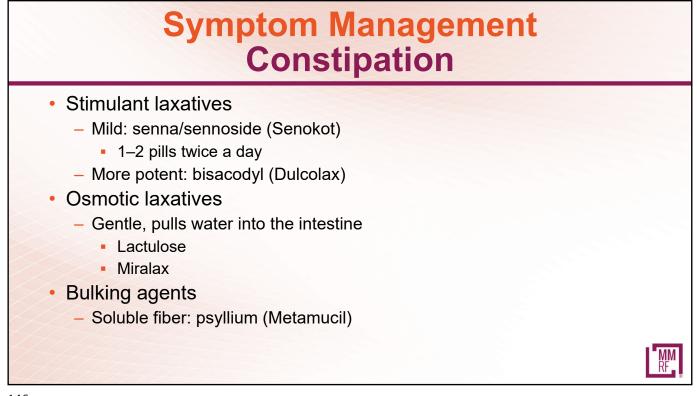




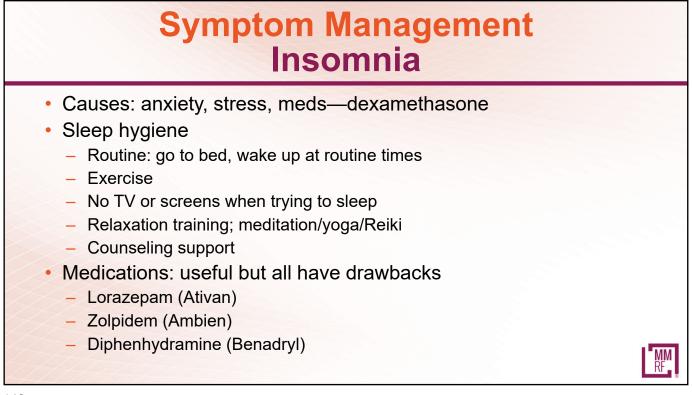
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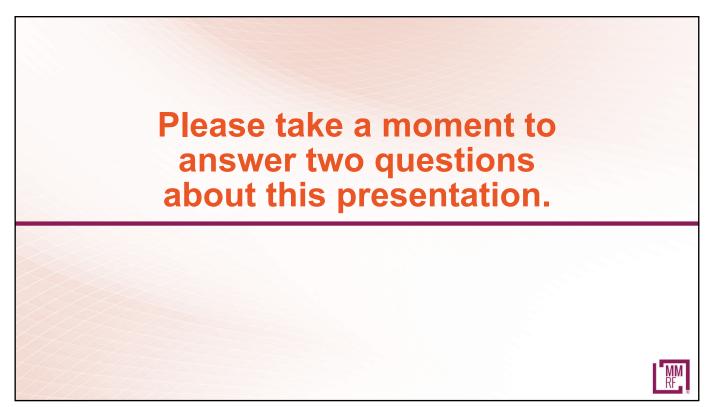




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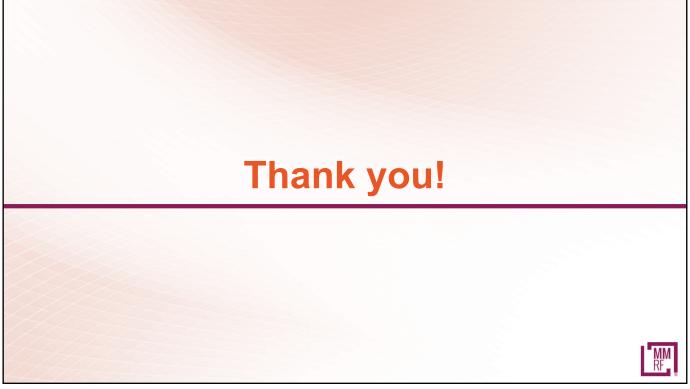
| | Taking Care of Yourself | |
|-----|--|----------|
| | Talk to your provider about side effects there is usually a way to make treatment tolerable. | |
| | Pay attention to your own needs and don't be afraid to ask for help. | |
| | Learn more about multiple myeloma. | |
| | Look for the positive. | MM RF |
| 151 | | |



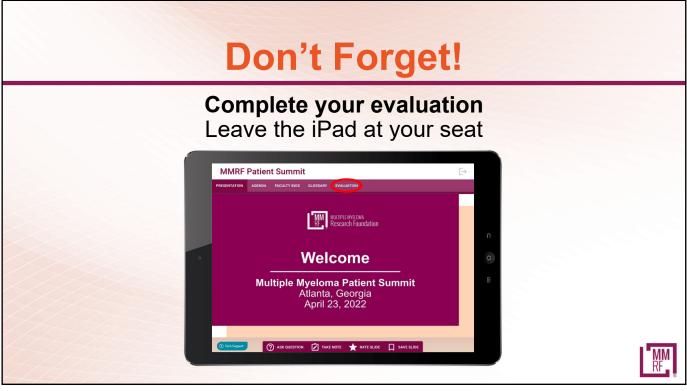












Upcoming Patient Education Events Save the Date

| Торіс | Date and Time | Speakers |
|---|---|---|
| Facebook Live: FAQs on Newly Diagnosed | Tuesday, March 14 | Gurbakhash Kaur, MD |
| Multiple Myeloma | 3:00 рм – 4:00 рм (ЕТ) | Sonia Patel, MSN, AGACNP-BC, APRN, AOCNP |
| Webinar: BCMA-Targeted Bispecific Antibody | Tuesday, March 21 | Jesus G. Berdeja, MD |
| Therapy | 4:00 рм – 5:00 рм (ЕТ) | Amrita Y. Krishnan, MD |
| Patient Summit Scottsdale, AZ In collaboration with Arizona Myeloma Network | Saturday, March 25 9:00 AM to 3:45 PM MT | Leif Bergsagel, MD Clarence Adoo, MD Jonathan Keats, PhD Sumit Madan, MD Suzanne Hyde, MSW, LCSW Barbara Kavanagh, MSW, LCSW Joan Koerber-Walker William Brown |
| Facebook Live: FAQs on Relapsed/Refractory | Tuesday, March 28 | Brandon Blue, MD |
| Multiple Myeloma | 2:00 рм – 3:00 рм (ЕТ) | Dana Spiak, RN |
| Webinar: Multiple Myeloma Precursor | Wednesday, April 5 | Sagar Lonial, MD |
| Conditions | 2:30 рм – 3:30 рм (ЕТ) | Omar Nadeem, MD |
| | ore information or to mmrf.org/resources/e | |





MMRF Events

Our events are returning live and in-person, and there are so many ways to get involved. Most have a virtual option, too. Join us today!

Endurance Events

5K Walk/Run Events

Independent Events



MM RF