Updates in Multiple Myeloma

Joseph Rosales, MD November 8, 2025



UPDATES IN MULTIPLE MYELOMA

INCIDENCE: Represents 1.8% of all new cancer diagnoses in US

36,110 new cases (20,030 in men, 16,080 in women) - 1.8%

Average lifetime risk < 1%

Average age at diagnosis: 69

SURVIVAL: 12,030 deaths (6,540 in men, 5,490 in women) - 1.9%

5-Year Survival: 62.4% (2015 - 2021)



UPDATES IN MULTIPLE MYELOMA

Presentation/Diagnosis

Treatment

Induction/Consolidation/Maintenance

Autologous Stem Cell Transplantation

CAR-T Cell/BiTE Therapy

Supportive Care

Survivorship



CONCLUSIONS

Symptoms at presentation of MM are often nonspecific and diagnosis requires a high threshold of suspicion

Multi-drug regimens, ASCT, BiTE Therapy and CAR-T Cells are prominent treatment modalities in MM

Treatments in MM have resulted in significant improvement of overall survival

Survivorship and ongoing supportive care is crucial in patients after MM treatment, given prolonged remission duration but also high risk of relapse.



Case #1

HPI: 67 y/o woman presented to her PCP with worsening weakness/fatigue over the past 4 months. Dyspnea on exertion, though recovers with rest; no chest pain or palpitations. No nausea/vomiting, but appetite is down and she has lost 8 lbs in the past few months. No bone pain. No fevers/chills or night sweats.

LABS:

CBC - Hb 9.2 g/dL, Plt 477, MCV 78

CMP - Cr 1.6, Alb 3.1



Case #2

HPI: 69 y/o woman presented to her PCP with worsening weakness/fatigue over the past 3 months. No dyspnea or chest pain, but her energy level is low and she is not able to exercise at her previous baseline. No nausea/vomiting, but appetite is down and she has lost 10 lbs in the past few months. No bone pain. No fevers/chills or night sweats.

LABS:

CBC - Hb 9.2 g/dL, o/w WNL

CMP - Cr 1.5, Ca 10.8, tProt 9.7, Alb 3.2

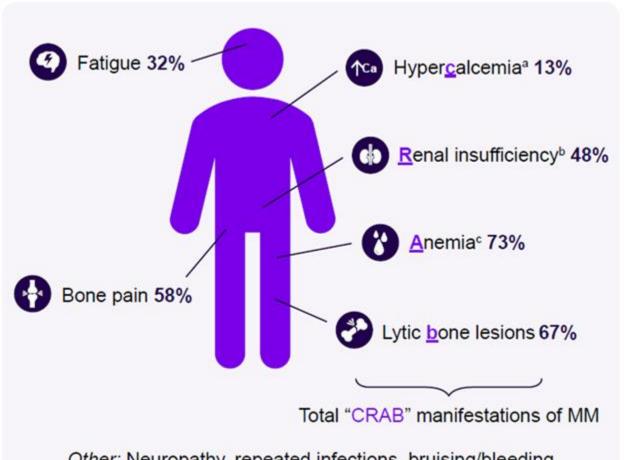


Common Presenting Symptoms/Signs

Symptoms	Labs	
Fatigue	hyperCalcemia	
Bone Pain/Fractures	Renal dysfunction	
Nausea/vomiting/thirst	A nemia	
Frequentinfections	Bone lytic lesions	
Weight loss	Monoclonal gammopathy	

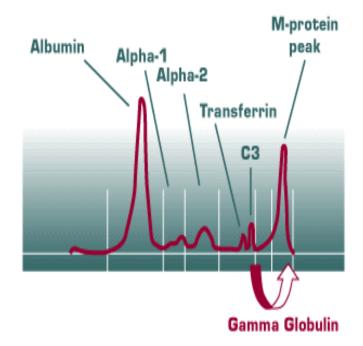


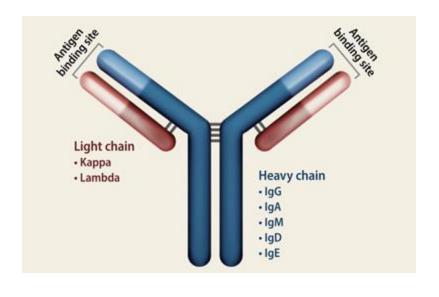
How to RECOGNIZE Signs and Symptoms of Multiple Myeloma





Other: Neuropathy, repeated infections, bruising/bleeding







Multiple signs and symptoms suggestive of MM:

- . Bone pain (especially lower back, hips, skull)
- Fatigue
- Neuropathy

- Bruising/bleeding
- · Recurrent infections
- Recurrent infections
 Raynaud phenomenon
- · Hyperviscosity symptoms
- Pathologic fractures

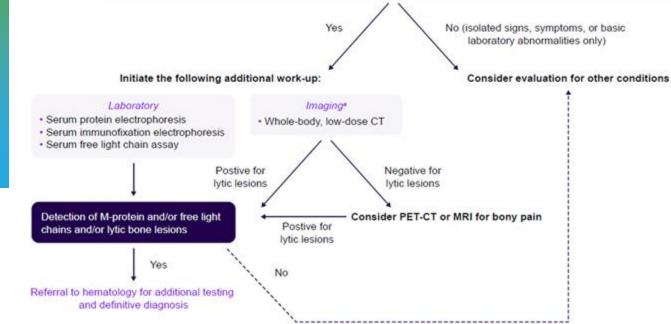
Basic laboratory work-up (CBC and biochemistry)

Multiple basic laboratory abnormalities suggestive of MM:

- Anemia
- · Elevated creatinine
- Hypercalcemia

- · Elevated total protein
- · Low anion gap
- Unexplained proteinuria

- · Low albumin
- Hypo- or hyper-gammaglobulinemia
- Elevated ESR





Disease	Definition
Smoldering Myeloma ^{a,b} (Asymptomatic)	Serum monoclonal protein ≥3 g/dL or Bence-Jones protein ≥500 mg/24 h and/or Clonal bone marrow plasma cells (BMPCs) 10%–59% and Absence of myeloma-defining events or amyloidosis
Multiple Myeloma ^{a,c} (Symptomatic)	 Clonal BMPCs ≥10% or biopsy-proven bony or extramedullary plasmacytoma and any one or more of the following myelomadefining events: Myeloma-defining events: Evidence of end organ damage that can be attributed to the underlying plasma cell proliferative disorder, specifically: Hypercalcaemia: serum calcium >0·25 mmol/L (>1 mg/dL) higher than the upper limit of normal or >2·75 mmol/L (>11 mg/dL) Renal insufficiency: creatinine clearance <40 mL per min or serum creatinine >177 µmol/L (>2 mg/dL) Anaemia: haemoglobin value of >20 g/L below the lower limit of normal, or a haemoglobin value <100 g/L Bone lesions: one or more osteolytic lesions on skeletal radiography, CT, or PET-CT Any one or more of the following biomarkers of malignancy: Clonal bone marrow plasma cell percentage ≥60% Involved:uninvolved serum free light chain ratio ≥100 >1 focal lesions on MRI studies
Solitary Plasmacytoma ^a	Biopsy-proven solitary lesion of bone or soft tissue with evidence of clonal plasma cells Normal skeletal survey and MRI (or CT) of spine and pelvis (except for the primary solitary lesion) Absence of myeloma defining events Normal bone marrow with no evidence of clonal plasma cells
Solitary Plasmacytoma with minimal marrow involvement ^a	Biopsy-proven solitary lesion of bone or soft tissue with evidence of clonal plasma cells Normal skeletal survey and MRI (or CT) of spine and pelvis (except for the primary solitary lesion) Absence of myeloma defining events Clonal bone marrow plasma cells <10%
Plasma Cell Leukemia	Presence of ≥5% of plasma cells in circulation

Factors Considered as High Risk for Progression/Relapse			
For Those with Newly Diagnosed MM	For Those with Relapsed MM		
 R-ISS III (MYEL-B 1 of 2) Extramedullary disease Circulating plasma cells Cytogenetic abnormalities^c Del(1p32) t(4;14) t(14;16) t(14;20) Del(17p)/monosomy 17/TP53 mutation 1q21 gain/1q21 amplification^{d,4} MYC translocation⁵ High-risk gene expression profile Markers of high proliferation rate 	 Disease relapse within 2 years of initial therapy when transplant and maintenance are used. Relapse within 18 months in case of nontransplant-based treatment. Acquisition of 1q gain/amplification and/or del(17p)/TP53 mutation Extramedullary disease at relapse and/or circulating plasma cells 		



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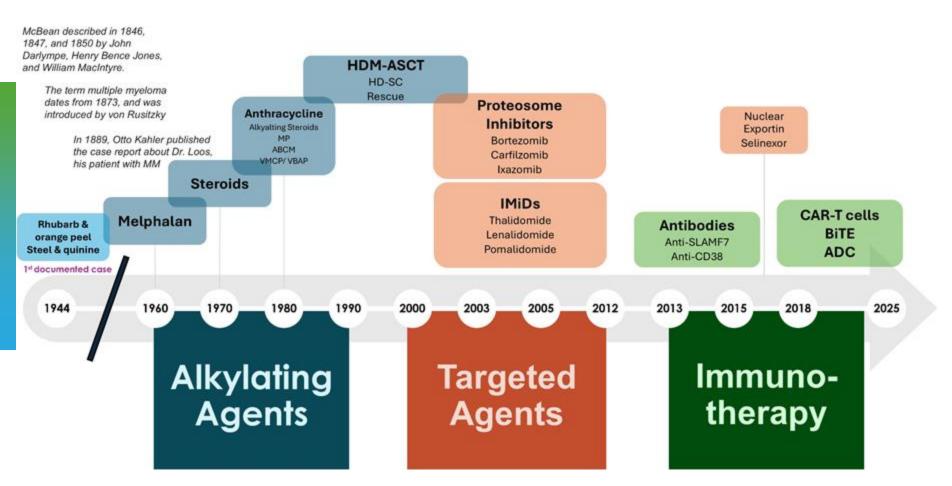
CAR-T Cell/BiTE Therapy

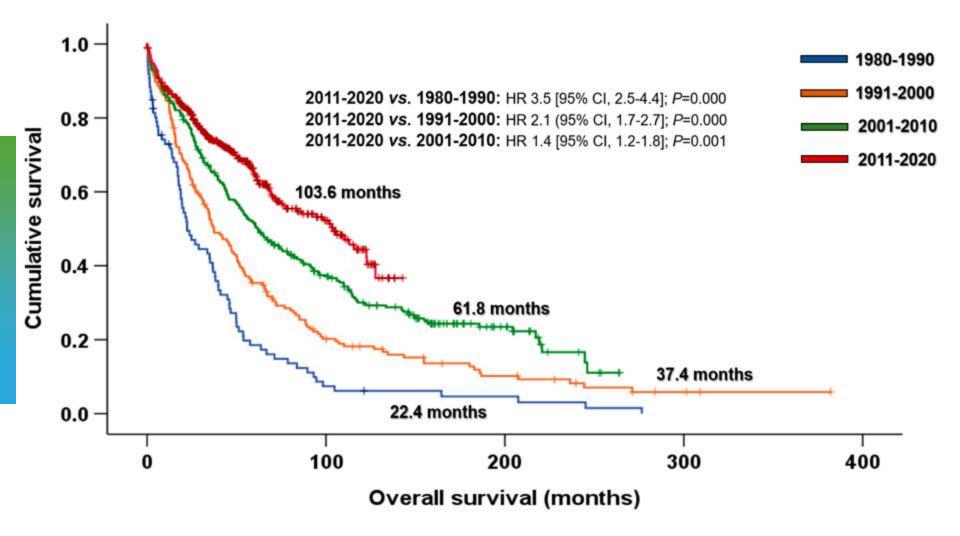
Supportive Care

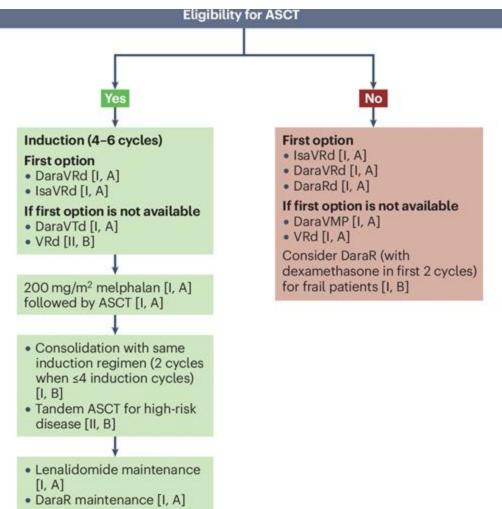
Survivorship



Eras of Multiple Myeloma Treatment









IMiDs -Lenalidomide

T-cell and NK cell activation

Anti-angiogenesis

Direct antitumor activity

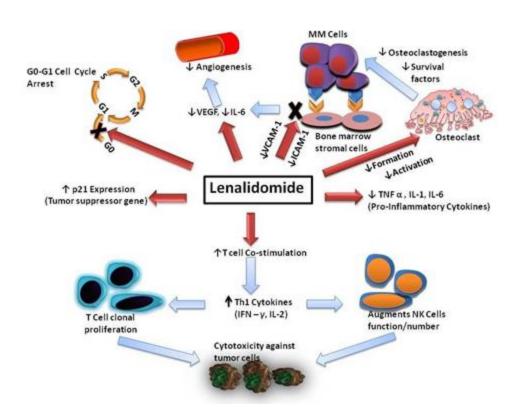
Alters bone marrow microenvironment

Toxicities:

Myelosuppression

Hypercoagulable state

Hepatotoxicity





Bortezomib Proliferation Proteasome Caveolin-1 Apoptosis Stabilization Stabilization Migration Angiogenesis Proliferation

Proteosome Inhibitor – Bortezomib

Blocks NF-KB → protein accumulation

Induces apoptosis

Blocks cellular signaling

Cytokine inhibition

Toxicities:

Neuropathy

Autonomic dysfunction

Myelosuppression



Monoclonal Antibodies – Daratumumab/Isatuximab

Binds CD-38

Direct antineoplastic effects

Recruits macrophages/NK cells

Recruits complement

Toxicities:

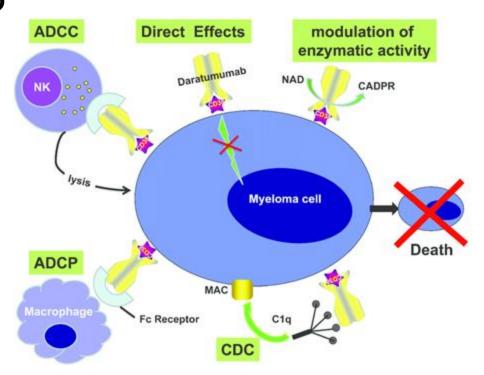
Infusion related reactions

Myelosuppression

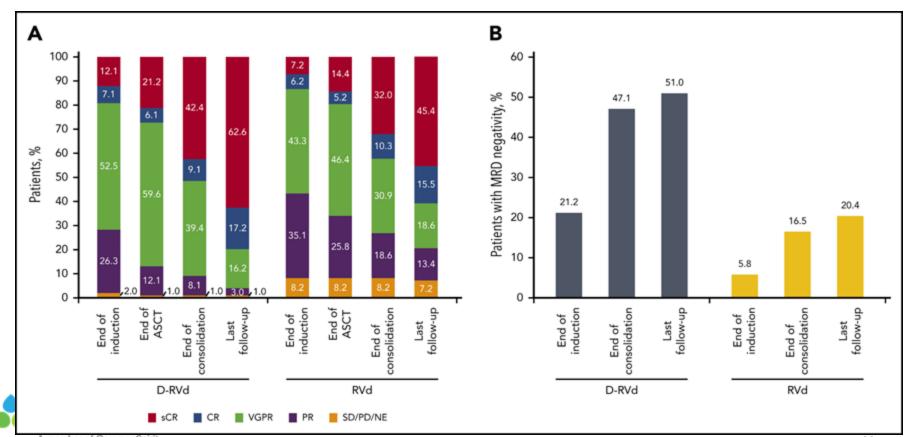
Gl symptoms

Pulmonary toxicity





Dara/RVd



Multiple Myeloma Response Criteria

Response category [†]	Criteria
Complete remission	All the following criteria: Negative IFE (serum and urine) <5% bone marrow plasma cells Disappearance of soft tissue plasmacytomas
Stringent complete remission	As above plus Normal serum free light chain ratio Absence of clonal plasma cells [‡]
Very good partial response	All the following criteria: ≥90% serum M-protein ↓ Urine M-protein <100 mg/24 h
Partial response	All the following criteria: ≥50% serum M-protein ↓ ≥90% urine M-protein ↓ or <200 mg/24 h ≥50% ↓ soft tissue plasmacytomas

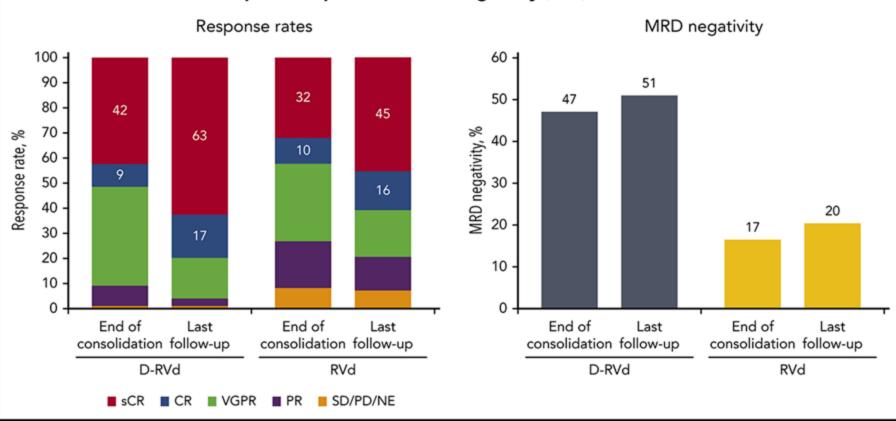
[†]All response categories require two consecutive measurements made at any time. [‡]Bone marrow plasma cells analyzed by immunohistochemistry and/or multiparametric flow cytometry.

IFE: Immunofixation electrophoresis.

Adapted from [11].

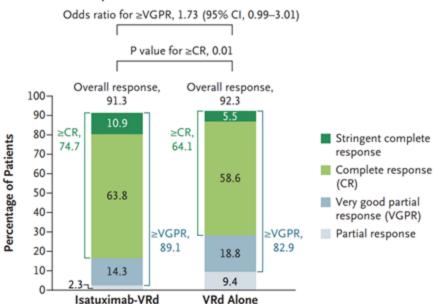




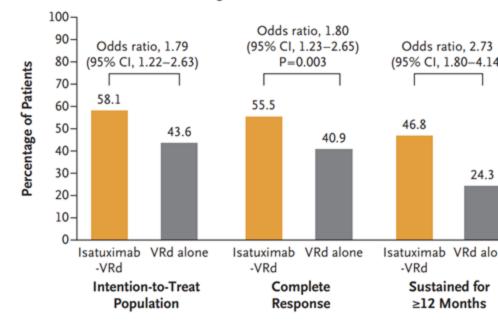


Isa/RVd

A Best Overall Response



B Minimal Residual Disease-Negative Status





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Autologous Stem Cell Transplant

Trial	Phase	Design	Follow Up	sCR (MRD) ^a	PFS
CASSIOPEIA [23,24]	3	VTd vs. D-VTd induction (4 cycles) and consolidation (2 cycles), with D maintenance or observation	Day 100 after ASCT	29% vs. 20% (64% vs. 44%)	NR vs. 47 mo ^b
GRIFFIN [25,26]	2	D-VRd induction (4 cycles) and consolidation (2 cycles) plus DR maintenance or VRd induction (4 cycles) and consolidation (2 cycles) plus R maintenance	50 mo	67% vs. 48% (64% vs. 30%)	87% vs. 70%
PERSEUS [27]	3	D-VRd induction (4 cycles) and consolidation (2 cycles) plus DR maintenance ^c or VRd induction (4 cycles) and consolidation (2 cycles) plus R maintenance	48 mo	88% vs. 70% ^d (75% vs. 48%)	84% vs. 68%
MASTER [28]	2	D-KRd induction (4 cycles) and consolidation (2 cycles), with R maintenance or observation ^e	42 mo	78% vs. 86% vs. 79% ^f	88% vs. 79% vs. 50% ^f
GMMG-HD7 [34]	3	Isa-VRd vs. VRd induction (3 cycles) with maintenance with Isa-R or R	After induction therapy	(50% vs. 36%)	Ongoing g
GMMG-CONCEPT [35]	2	Isa-KRd induction (6 cycles) and consolidation (4 cycles) with Isa-KR maintenance h	44 mo	73% (68%) ⁱ	NR



Relapsed/Refractory Disease After 1-3 Prior Therapies Preferred* Order of regimens does not indicate comparative efficacy Anti-CD38 Refractory **Bortezomib-Refractory** Lenalidomide-Refractory Carfilzomib/Lenalidomide/Dexamethasone Carfilzomib/Lenalidomide/Dexamethasone (category 1) Daratumumab/Bortezomib/Dexamethasone (category 1) Daratumumab/Carfilzomib/Dexamethasone (category 1) Daratumumab/Carfilzomib/Dexamethasone (category 1) (category 1) Carfilzomib/Pomalidomide/Dexamethasone Daratumumab/Lenalidomide/Dexamethasone (category 1) Isatuximab-irfc/Carfilzomib/Dexamethasone (category 1) Isatuximab-irfc/Carfilzomib/Dexamethasone (category 1) Pomalidomide/Bortezomib/Dexamethasone (category 1) Pomalidomide/Bortezomib/Dexamethasone Carfilzomib/Pomalidomide/Dexamethasone Carfilzomib/Pomalidomide/Dexamethasone (category 1) After one prior therapy including Lenalidomide and a PI After one prior therapy including Lenalidomide and a PI After two prior therapies including Daratumumab/Pomalidomide/Dexamethasone (category 1) Daratumumab/Pomalidomide/Dexamethasone (category 1) lenalidomide and a proteasome inhibitor (PI) Elotuzumab/Pomalidomide/Dexamethasone After two prior therapies including Lenalidomide and a PI After two prior therapies including Lenalidomide and a PI ▶ Isatuximab-irfc/Pomalidomide/Dexamethasone (category 1) ▶ Isatuximab-irfc/Pomalidomide/Dexamethasone (category 1) After two prior therapies including an IMiD ▶ Elotuzumab/Pomalidomide/Dexamethasone ▶ Elotuzumab/Pomalidomide/Dexamethasone and a PI and with disease progression on/ within 60 days of completion of last therapy After two prior therapies including an IMiD and a PI and with Ixazomib/Pomalidomide/Dexamethasone disease progression on/within 60 days of completion of last therapy Ixazomib/Pomalidomide/Dexamethasone

THERAPY FOR PREVIOUSLY TREATED MULTIPLE MYELOMA®-d,I-o

CAR T-Cell Therapy

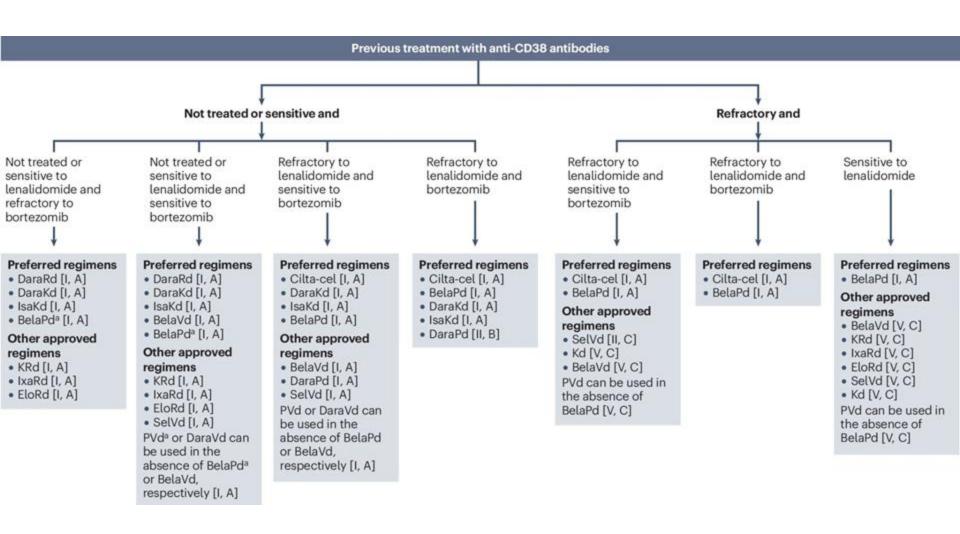
After one prior line of therapy including IMiD and a PI, and refractory to lenalidomide

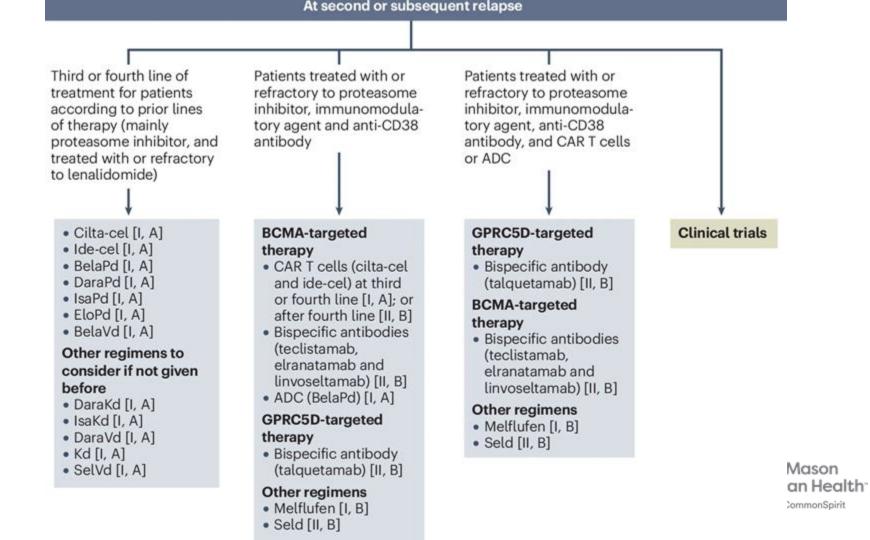
Ciltacabtagene autoleucel (category 1)

After two prior lines of therapies including an IMID, an anti-CD38 monoclonal antibody and a PI

Idecabtagene vicleucel (category 1)







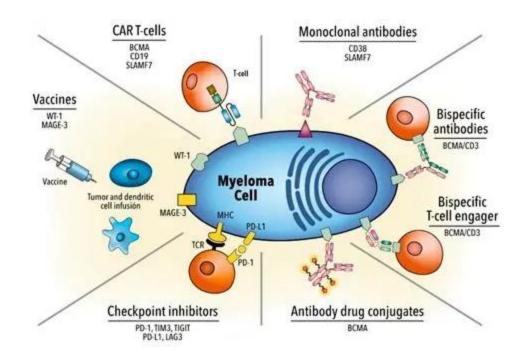
Treatment options for RRMM

Carfilzomib/Ixazomib

Pomalidomide

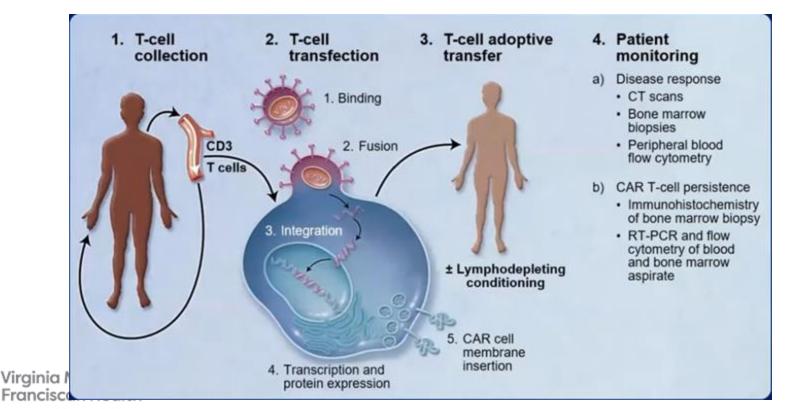
Elotuzomab

Selinexor - XPO1 inhibitor





Chimeric Antigen Receptor (CAR)-T Cell

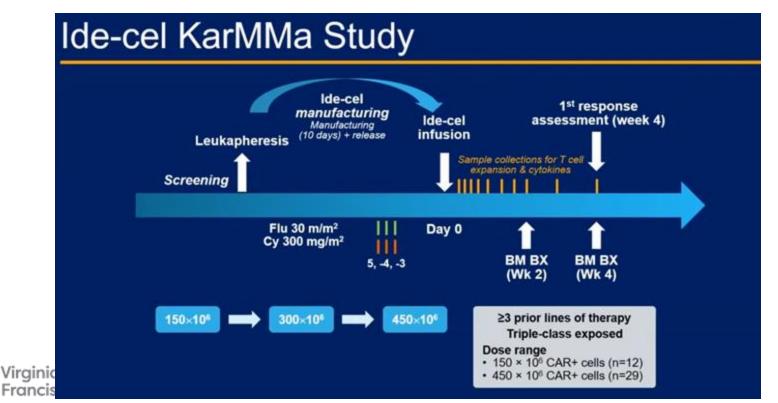


Antigen	Expression in nonmalignant cells	Expression in multiple myeloma	Clinical trial of CAR Ts in myeloma
CD38	Precursor B cells, plasma cells, T cells, NK cells, myeloid precursors, RBCs, prostate cells, nervous system, osteoclasts, muscle cells	Strong, uniform expression on myeloma cells	Yes
CD138	Plasma cells, salivary glands, liver, skin	Expressed on MM cells	Yes
CD19	Mature B cells	Minimal expression on MM cell surface (some exceptions).	Yes
lmmunoglobulin к light chain	Mature B cells	Potential target on B cells that represent MM stem cells and that express surface immunoglobulins	Yes
SLAMF7	Plasma cells, NK cells, CD8* cells, activated monocytes and B cells, dendritic cells	Expressed by MM cells	Yes
ВСМА	Plasma cells, small subset of B cells	Expressed on MM cells	Yes
GPRC5D	Plasma cells	Expressed on MM cells	Yes

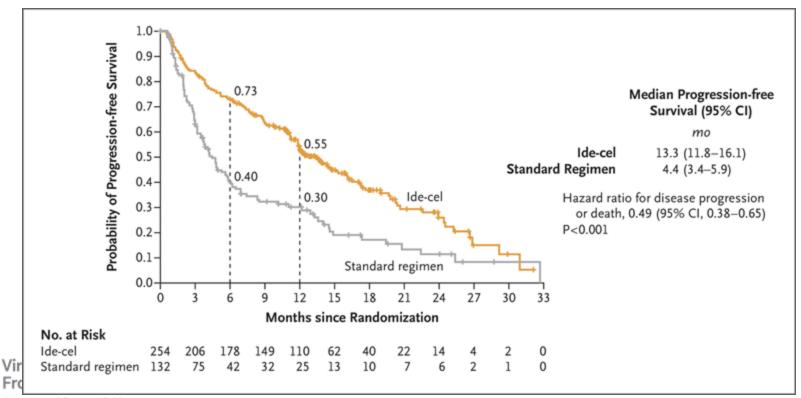
30



Idecaptagene-vicleucel (Ide-cel)

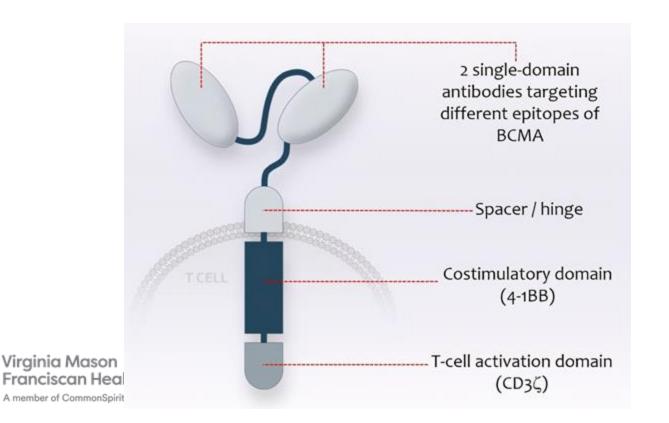


Ide-Cel





Ciltacabtagene-autoleucel (Cilta-Cel)



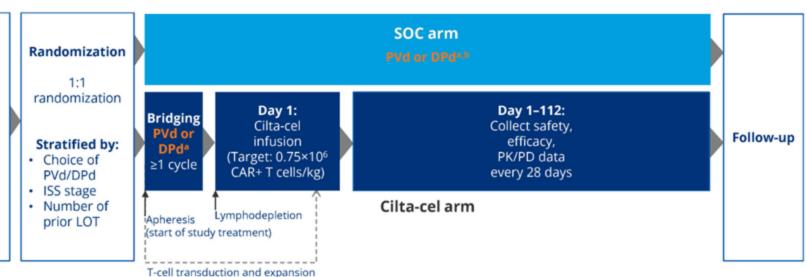
Cilta-Cel

Screening Key inclusion criteria:

- Age ≥18 years with MM
- 1–3 prior LOT (including PI + IMiD)
- Len refractory
- ECOG PS 0-1

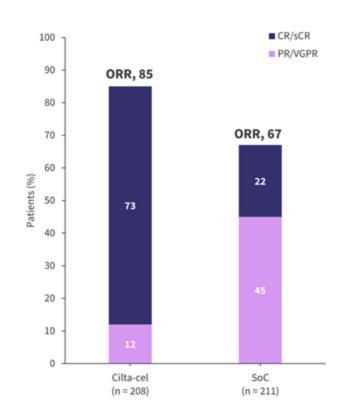
Key exclusion criteria:

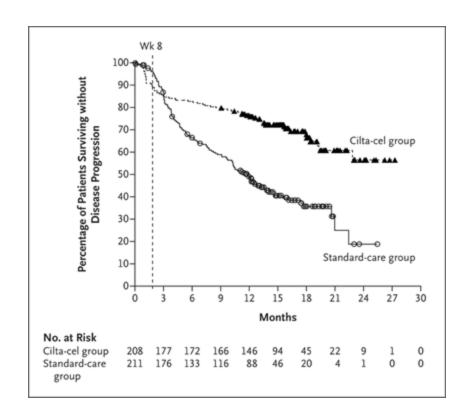
· Prior CAR-T or **BCMA-targeting** therapy



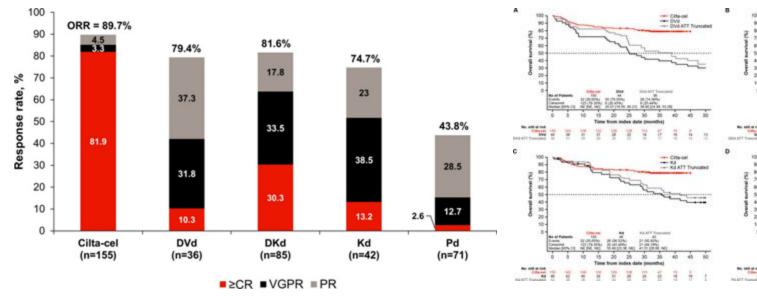


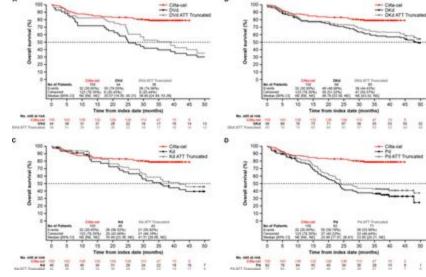
Cilta-Cel





Cilta-Cel







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CAR-T Cell Therapy – Toxicities

Cytokine Release Syndrome (CRS)

Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS)

Immune Effector Cell-Associated Hematotoxicity (ICAHT)

Movement disorders

Infections



Cytokine Release Syndrome (CRS)

Stimulus Activation IFN-y/TNF-c • IFN.y

CRS Grading

Grade 1

- Fever
- · Constitutional symptoms

Grade 2

- Hypotension responding to fluids/low dose vasopressors
- Grade 2 organ toxicities

Grade 3

- · Shock requiring high dose/multiple vasopressors
- Hypoxia requiring ≥40% FiO2
- Grade 3 organ toxicities. grade 4 transaminases

Grade 4

- Mechanical ventilation
- · Grade 4 organ toxicities (excl. transaminases)

Neurologic

- Headaches
- · Changes in level of
- consciousness Delirium
- Aphasia
- Apraxia
- Tremor
- Myoclonus
- Facial nerve palsy Seizures

- Hepatic Transaminitis
- Hyperbilirubinemia

Hematologic

- Thrombocytopenia
- Neutropenia
- Febrile neutropenia
- Lymphopenia
- B cell aplasia
- Prolonged prothrombin time
- Prolonged activated partial thromboplastin time • Elevated D-dimer
- Hypofibrinogenemia
- Disseminated intravescular coagulation
- Hemophagocytic lymphohistiocytosis

Constitutional

- Fevers
- Rigors
- Fatique
- Anorexia
- Arthralgias

Cardiovascular

- Tachycardia Widened pulse
- Hypotension
- Arrhythmias
- Decreased left ventricular ejection fraction.
- Troponinomia
- QT prolongation

Pulmonary

 Tachypnea Hypoxia

- · Acute kidney injury
- Hyponatremia
- Hypokalemia
- Hypophosphatemia
- Tumor lysis syndrome

Gastrointestinal

- Nauson
- Emesis
- Diarrhoa

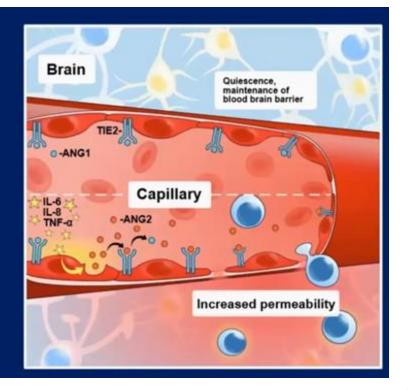
Musculoskeletal

- Myalgias
- Elevated creating

Shimabukuro-Vornhagen A et al. J Immunother Cancer. 2018;6:56. Brudno JN: Kochenderfer JN. Blood. 2016:127:3321.

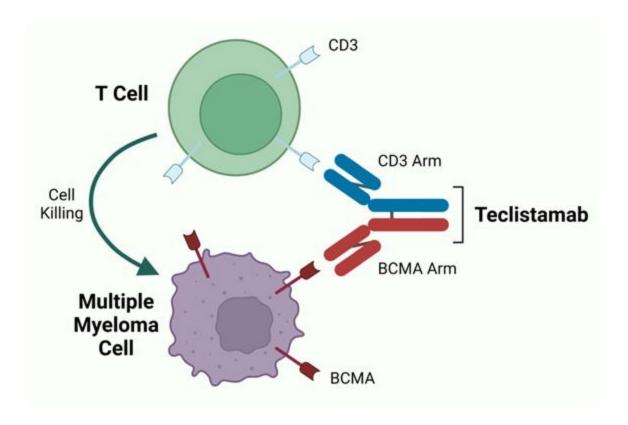
ICANS

- Associated with systemic inflammatory response
- Capillary leak
- Endothelial dysfunction
- Cerebral edema
- May be disconnected from grade of cytokine release syndrome (CRS)
- Appears to be less common/severe in multiple myeloma
- Late neurotoxicity can occur





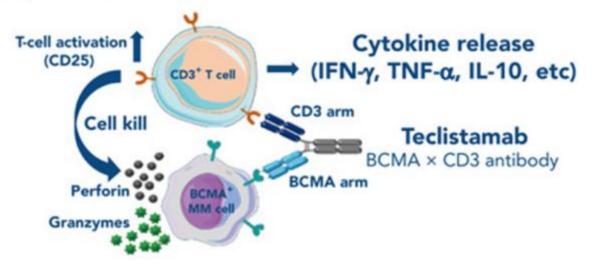
A member of CommonSpirit





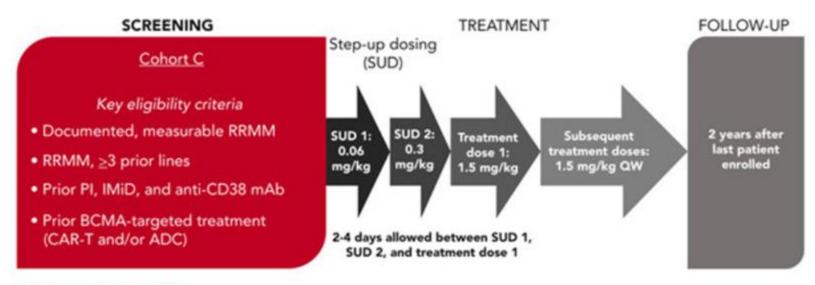
Background

In the phase 1/2 MajesTEC-1 study, a cohort of MM patients who had prior BCMA-targeted therapy (Cohort C) were treated with the BCMA \times CD3 bispecific antibody teclistamab





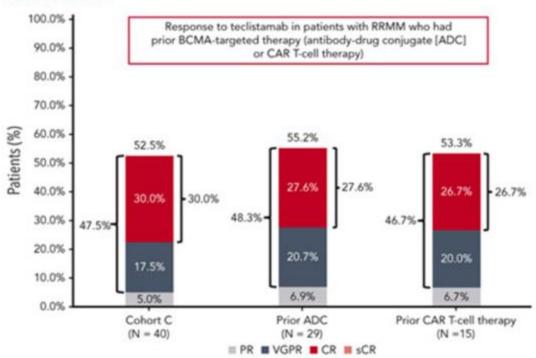
Materials and Methods





Key secondary endpoints: DOR, ≥VGPR, ≥CR, sCR, MRD status, PFS, OS, safety, PK, immunogenicity

Outcomes



Cohort C n = 40			
AEs >20%, n (%)	Any Grade	Max Grade 3/4	Max Grade 5
Hematologic			
Neutropenia	28 (70.0)	26 (65.0)	0
Anemia	20 (50.0)	14 (35.0)	0
Lymphopenia	18 (45.0)	17 (42.5)	0
Thrombocytopenia	18 (45.0)	12 (30.0)	0
Nonhematologic	A STATE OF THE PARTY OF THE PAR		
Infections and infestations	28 (70.0)	13 (32.5)	4 (10.0)
CRS	26 (65.0)	0	0
Diarrhea	15 (37.5)	1 (2.5)	0
Constipation	15 (37.5)	0	0
Pyrexia	14 (35.0)	0	0
Injection site erythema	13 (32.5)	0	0
Arthralgia	11 (27.5)	0	0
COVID-19	10 (25.0)	5 (12.5)	4 (10.0)
Dyspnea	10 (25.0)	2 (5.0)	0
Headache	10 (25.0)	0	0
Asthenia	9 (22.5)	2 (5.0)	0
Musculoskeletal chest pain	9 (22.5)	0	0

	Ide-cel	Cilta-cel	Teclistamab
Cell dose	150-450	$0.75 \times 10^6 / \text{kg}$	N/A
Median f/u	13.3	33.4	14.1
Response rate			
ORR	73%	98%	63%
≥CR	33%	83%	39%
MRD			
Evaluable #	4 70 54	61	65
MRD- (%)	50% 31% 48%	92%	46%
Median DoR	10.7	33.9	18.4
Median PFS	8.8	34.9	11.3



	Ide-cel		Cilta-cel		Teclistamab (bispecific antibody)	
	Any grade	Grade 3-4	Any grade	Grade 3-4	Any grade	Grade 3-4
Hematologic	91%	89%	100%	94%	71%	64%
CRS	84%	5%	95%	4%	72%	0.6%
Time to onset	1 d	ays	7 d	ays	2 d	ays
Median duration	5 d	ays	4 d	ays	2 d	ays
Neurotox	18%	3%	21%	9%	14.5%	0.6%
Time to onset	2 d	ays	8 d	ays	N	/A
Median duration	3 d	ays	4 d	ays	N	/A



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BONE HEALTH

INFECTION RISK

THROMBOSIS

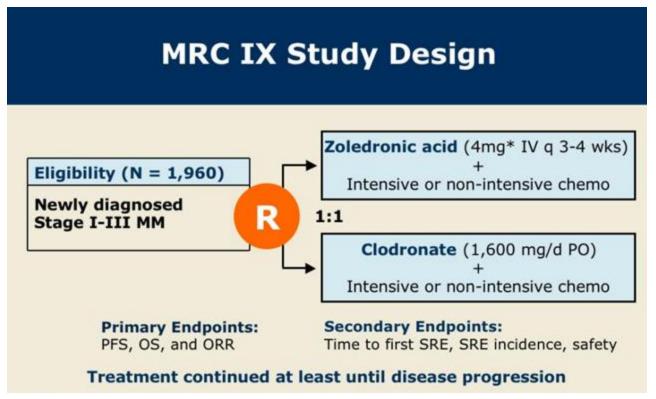
PERIPHERAL NEUROPATHY

DERMATOLOGIC COMPLICATIONS

GITOXICITY



Bisphosphonate - Zoledronic acid





A member of CommonSpirit

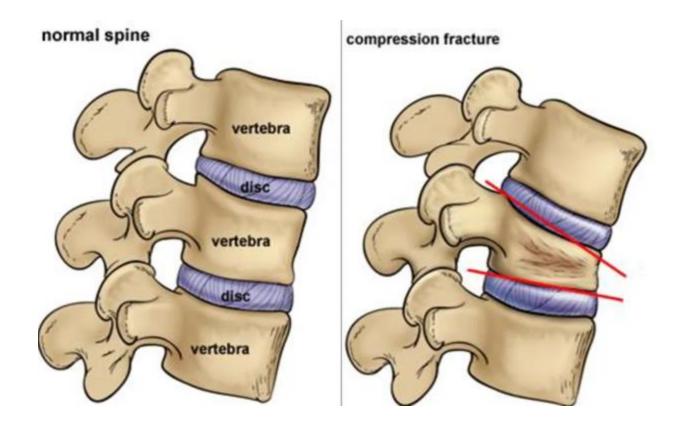
Bisphosphonate - Zoledronic acid

Summary of Efficacy (Median Follow-Up: 3.7 Years)

Endpoint	Risk reduction (in favor of ZOL)	p-value
Overall survival (OS)*	16%	0.0118
Progression-free survival (PFS)*	12%	0.0179
Skeletal-related events (SREs) [†]	24%	0.0004
Improvement in median OS (ZOL vs CL	O) = 5.5 mo, p = 0.04	
Is the observed OS improvement with a it represent an anti-myeloma effect?	ZOL due to SRE prevention	on, or does
OS adjusted for SREs	15%	0.0178

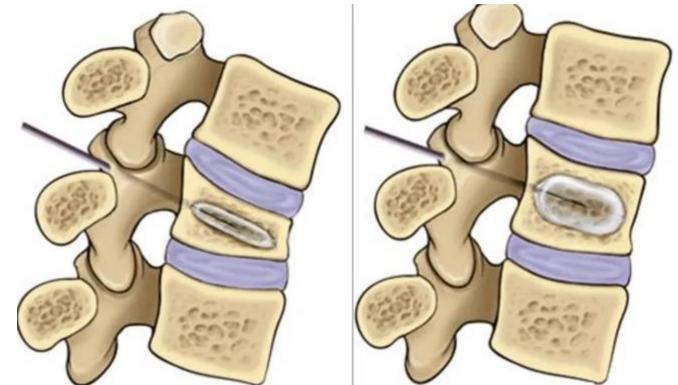


Kyphoplasty





Kyphoplasty





BONE HEALTH

INFECTION RISK

THROMBOSIS

PERIPHERAL NEUROPATHY

DERMATOLOGIC COMPLICATIONS

GITOXICITY



BONE HEALTH

INFECTION RISK

THROMBOSIS

PERIPHERAL NEUROPATHY

DERMATOLOGIC COMPLICATIONS

GITOXICITY



THROMBOSIS

Risk Factors	VTE prophylaxis regimen
Obesity (BMI >30 kg/m²) Prior VTE CVAD or pacemaker Co-morbidity (CAD, CKD, DM, acute infection, immobilization)	0−1 Individual or myeloma-related risk factor • Aspirin 81–325 mg oral daily >1 Individual or myeloma-related risk factors
Surgery (general, any anesthesia, trauma) Use of erythropoietin Thrombophilia Myeloma-related	Enoxaparin 40 mg SQ daily (or LMWH equivalent) Warfarin (INR 2-3) DOACs (Apixaban 2.5 mg BID or rivaroxaban 10 mg daily)
Diagnosis of myeloma and being treated with and IMiD Myeloma therapy	
 • IMiD in combination with • High dose dexamethasone (≥480 mg/month) • Doxorubicin • Multiagent chemotherapy • Carfilzomib_ 	Enoxaparin 40 mg SQ daily (or LMWH equivalent) Warfarin (INR 2-3) DOACs (Apixaban 2.5 mg twice daily or rivaroxaban 10 mg daily)



A member of CommonSpirit

BONE HEALTH

INFECTION RISK

THROMBOSIS

PERIPHERAL NEUROPATHY

DERMATOLOGIC COMPLICATIONS

GITOXICITY



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UPDATES IN MULTIPLE MYELOMA

Presentation/Diagnosis

Treatment

Induction/Consolidation/Maintenance

Autologous Stem Cell Transplantation

CAR-T Cell/BiTE Therapy

Supportive Care

Survivorship



SECONDARY MALIGNANCIES

INFECTIOUS

CARDIOVASCULAR

NEUROLOGIC

VENOUS THROMBOEMBOLISM

BONE HEALTH



SECONDARY MALIGNANCIES

MALIGNANCY	INCIDENCE
PRIOR MALIGNANCIES	
PROSTATE	25%
BREAST	13%
HEMATOLOGIC	4%
SECONDARY MALIGNANCY	
HEMATOLOGIC	21%
PROSTATE	7%
LUNG	7%



SECONDARY MALIGNANCIES

INFECTIOUS

CARDIOVASCULAR

NEUROLOGIC

VENOUS THROMBOEMBOLISM

BONE HEALTH



SECONDARY MALIGNANCIES

INFECTIOUS

CARDIOVASCULAR

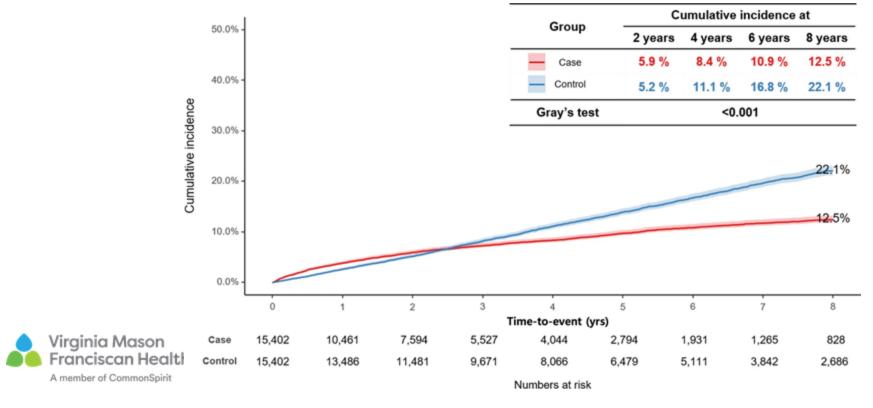
NEUROLOGIC

VENOUS THROMBOEMBOLISM

BONE HEALTH



CARDIOVASCULAR DISEASE



SECONDARY MALIGNANCIES

INFECTIOUS

CARDIOVASCULAR

NEUROLOGIC

VENOUS THROMBOEMBOLISM

BONE HEALTH



SECONDARY MALIGNANCIES

INFECTIOUS

CARDIOVASCULAR

NEUROLOGIC

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SECONDARY MALIGNANCIES

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CONCLUSIONS

Symptoms at presentation of MM are often nonspecific and diagnosis requires a high threshold of suspicion

Multi-drug regimens, ASCT, BiTE Therapy and CAR-T Cells are prominent treatment modalities in MM

Treatments in MM have resulted in significant improvement of overall survival

Survivorship and ongoing supportive care is crucial in patients after MM treatment, given prolonged remission duration but also high risk of relapse.



Thank you

