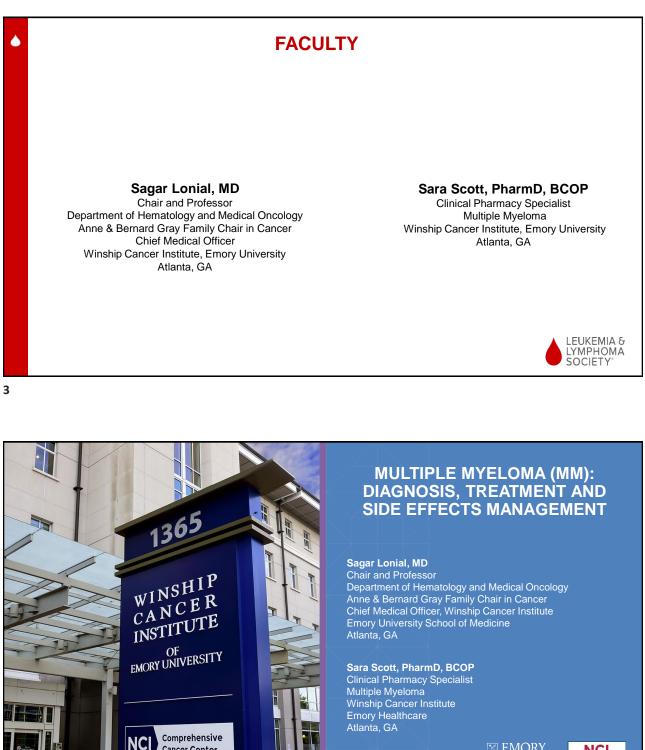


LEUKEMIA & LYMPHOMA SOCIETY*

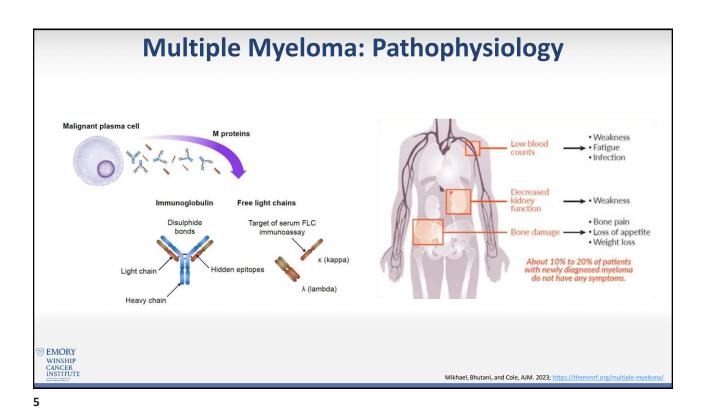


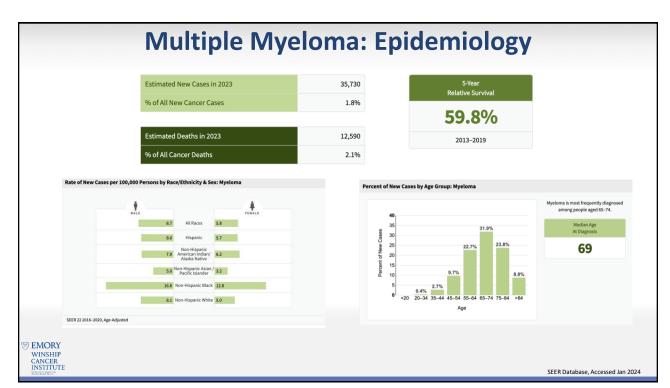
🕅 EMORY WINSHIP CANCER INSTITUTE

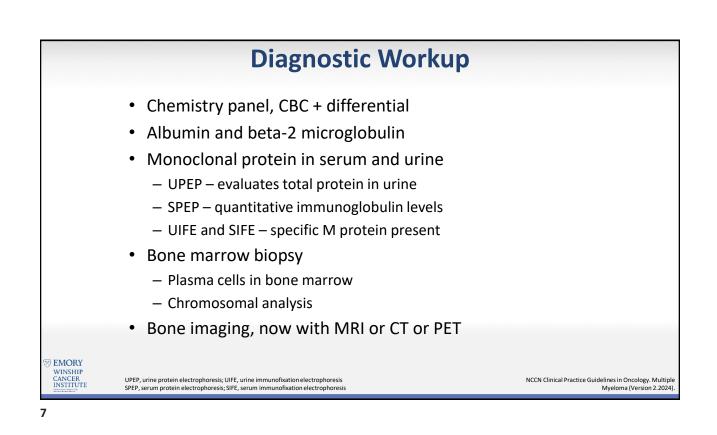
NCI Designated Comprehensive Cancer Center

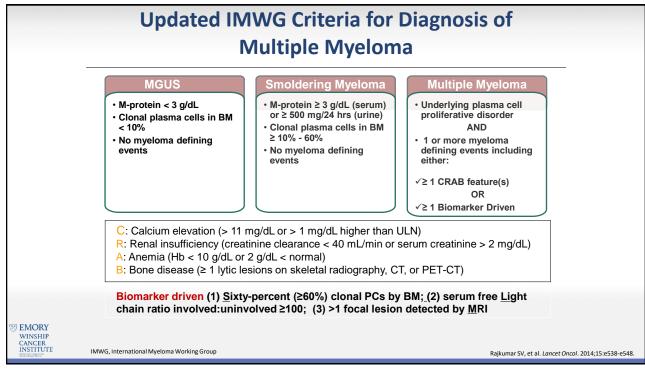
Cancer Center

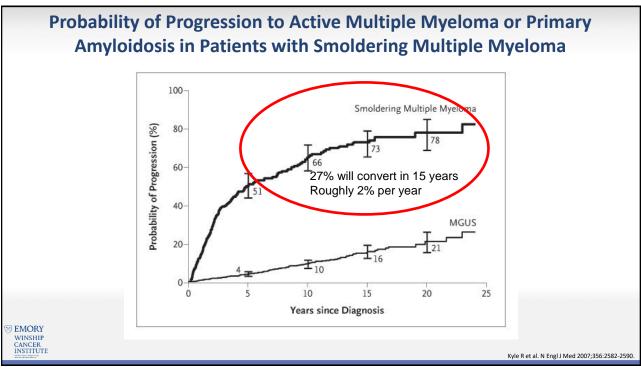
Cancer Center Designated by the National Cancer Institute



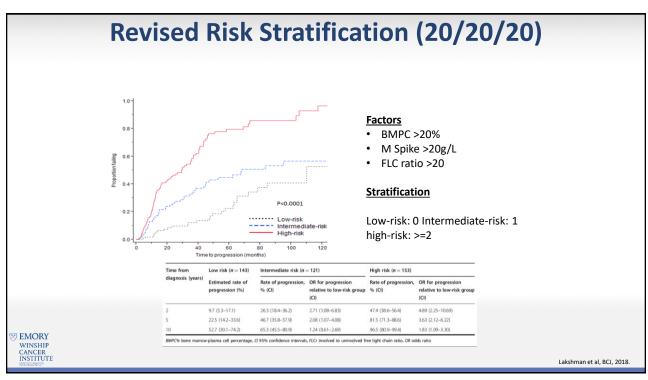


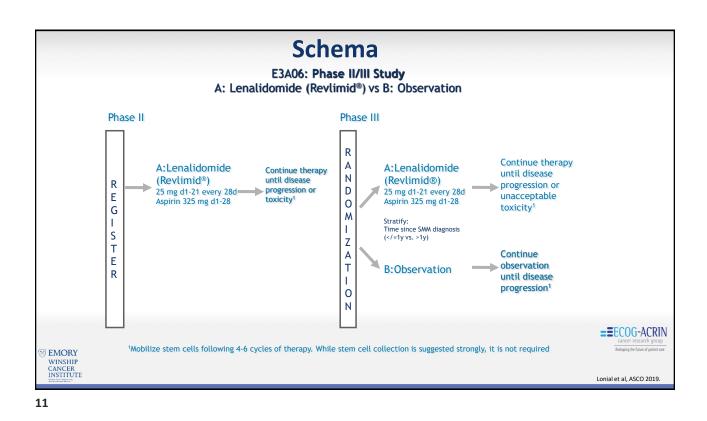


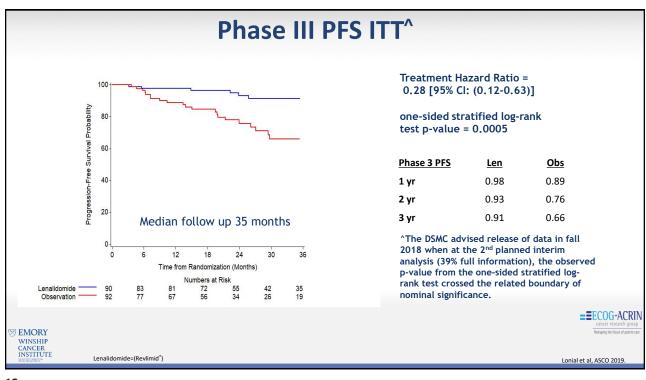


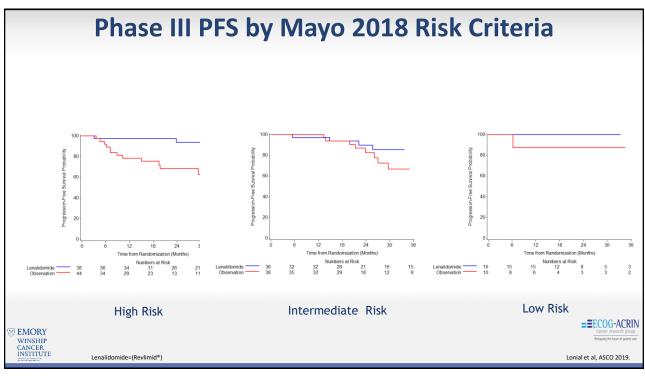




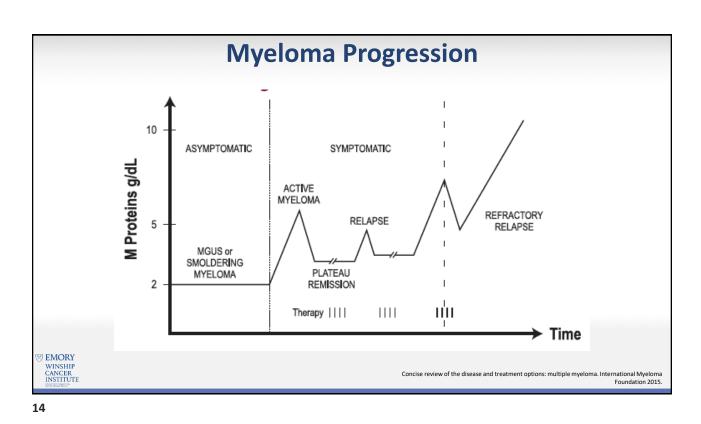


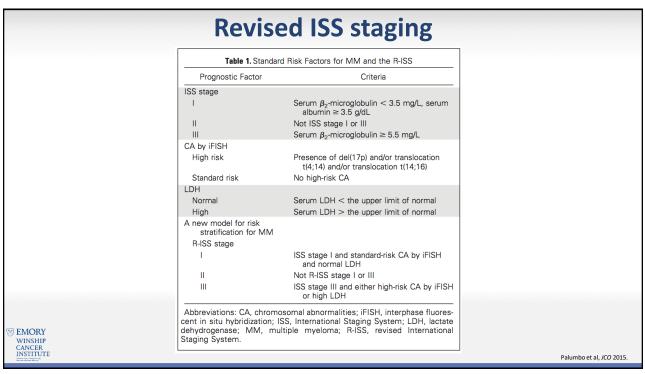




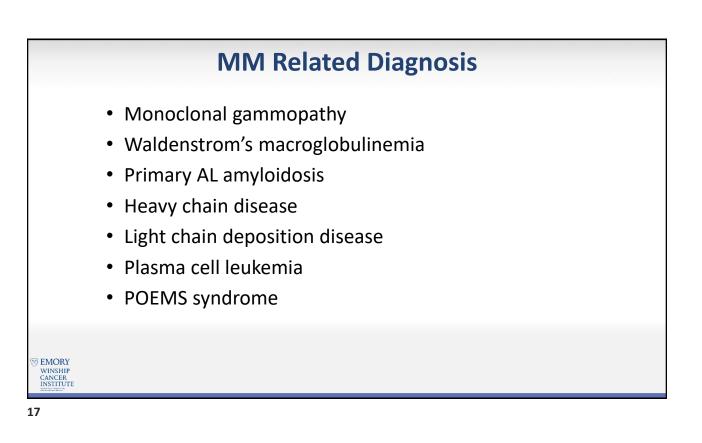


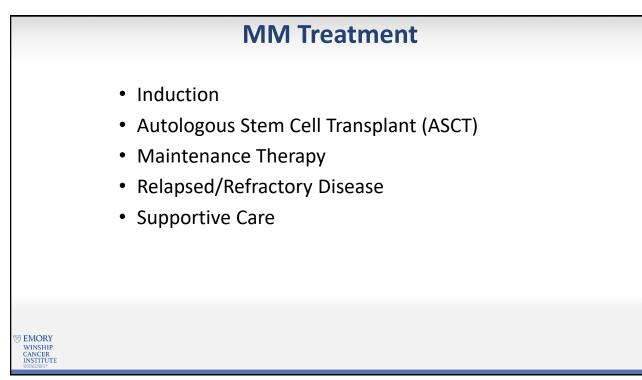


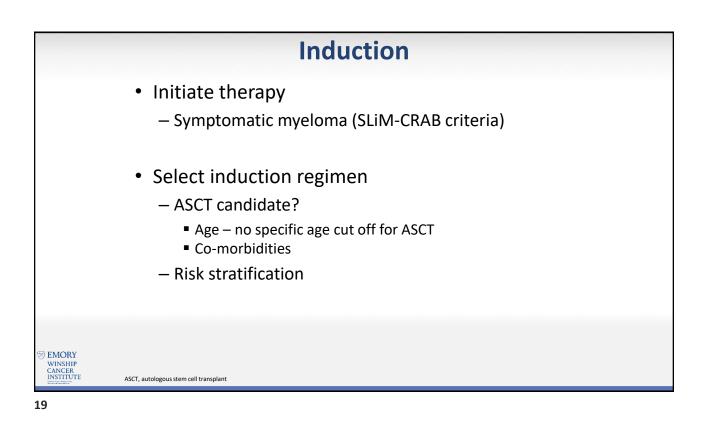


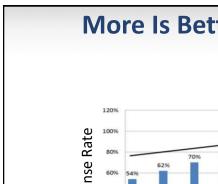


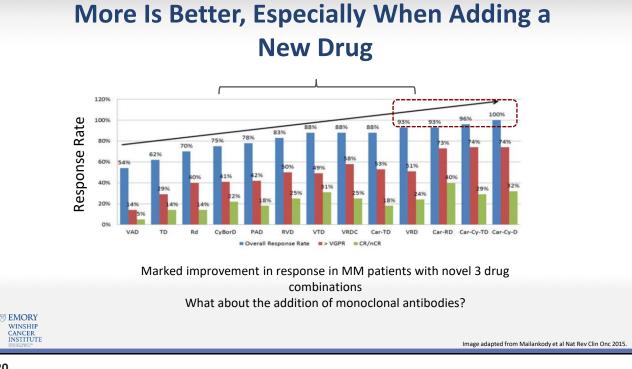
	Risk Stratification
	 High risk Deletion 17p ≥20% Deletion 1p and +1q High risk 14q32 trans and (+1q or deletion 1p)
	 Standard risk – Hyperdiploidy – t(11;14)
EMORY WINSHIP CANCER INSTITUTE	NCCN Clinical Practice Guidelines in Oncology. Multiple Myeloma (Version 1.2020 Palumbo A. N Engl J Med. 2011;364:1046-1066











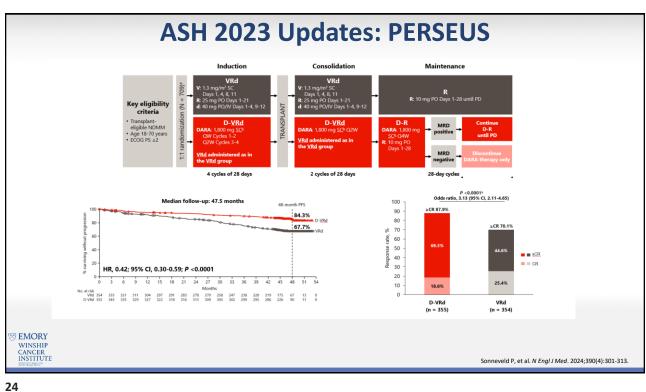
NCCN Preferred Induction Regimens	Bortezomib + lenalidomide +
Proteasome inhibitor (PI) + Immunomodulatory drug	dexamethasone (Category 1)
(IMiD) + dexamethasone (Decadron [®])	(Velcade [®] + Revlimid [®] + Decadron [®])
	Carfilzomib + lenalidomide + dexamethasone (Category 2A) (Kyprolis®+ Revlimid®+ Decadron®)
Other Induction Regimens	
Anti-CD38 monoclonal antibody + Proteasome inhibitor (PI) + Immunomodulatory drug (IMiD) + dexamethasone (Decadron®)	Daratumumab + bortezomib + lenalidomide + dexamethasone (Category 2A) (Darzalex [®] + Velcade [®] + Revlimid [®] + Decadron [®])
For patients with acute renal insufficiency	PI + cyclophosphamide + dexamethasone (Category 2A) (Velcade [®] or Kyprolis [®] + Cytoxan [®] + Decadron [®])
Combination chemotherapy	Dexamethasone + thalidomide + cisplatin + doxorubicin + cyclophosphamide + etoposide + bortezomib (VTD-PACE)
AORY	
INSHIP NCER SITUTE PI, proteasome inhibitor	NCCN Clinical Practice Guidelines in Oncology, Multiple Myeloma (Version:

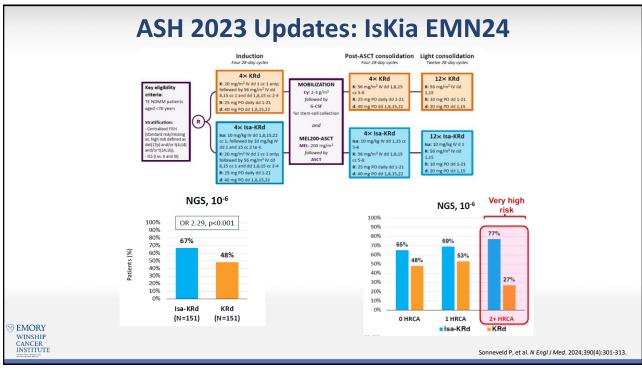
	ALCYONE	ΜΑΙΑ
Design	Bortezomib (Velcade [®]), melphalan, (Alkeran [®]) and prednisone (Deltasone [®]) given with daratumumab (Darzalex [®]) (n=350) or alone (n=356)	Lenalidomide (Revlimid [®]) and dexamethasone (Decadron [®]) with daratumumab (Darzalex [®]) (n=368) or alone (n=369)
Medium follow-up	16.5 months	28 months
Outcomes	 18-month PFS rate was 71.6% (daratumumab) (Darzalex[®]) versus 50.2% (control) ORR was 90.9% (daratumumab) (Darzalex[®]) versus 73.9% (control) MRD negativity achieved (1x10⁻⁵) in 22.3% (daratumumab) (Darzalex[®]) versus 6.2% (control) 	Disease progression or death was 26.4% (daratumumab) (Darzalex [®]) versus 38.8% (Control) ORR was 92.9% (daratumumab) (Darzalex [®]) versus 81.3% (control) MRD negativity achieved (1x10 ⁻⁵) in 24.2% (daratumumab) (Darzalex [®]) versus 7.3% (control)

Four Drug Induction Transplant Eligible

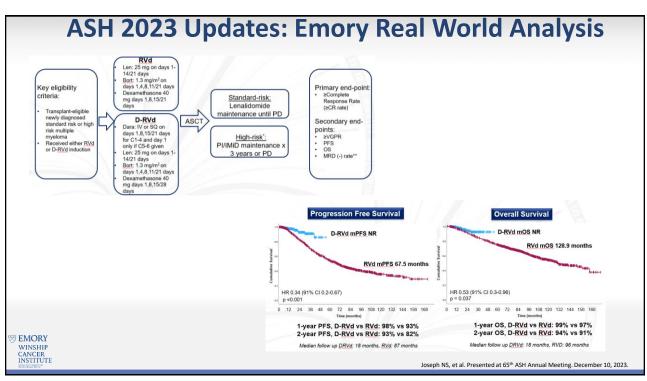
	CASSIOPEIA	GRIFFIN
Design	Dara(Darzalex [®])-VTD versus VTD (Total n=1085)	Dara (Darzalex [®])-RVD versus RVD (Total n=207)
Outcomes	At day 100 post-ASCT, sCR achieved in 29% of dara [Darzalex [®]]-VTD versus 20% of VTD (p=0.0010) Rate of VGPR or better was 83% (dara [Darzalex [®]]-VTD) versus 78% (VTD) MRD negativity (10 ⁻⁵) 64% (dara [Darzalex [®]]-VTD) versus 44% (VTD)	After cycle 6, 42.4% Dara-RVD achieved sCR versus 32.0% of RVD alone Dara (Darzalex [®])-RVD produced a higher ORR (99% versus 92) and higher rate of VGPR or better (91% versus 73%) versus RVD alone Rate of MRD negativity (10 ⁻⁵) in patients achieving a CR or better was higher with dara (Darzalex [®])-VRD (59% versus 24%)
EMORY WINSHIP CANCER INSTITUTE	Dara: daratumumab ; VTD = Velcade* (bortezomib), Thalomid * (thalidomide), and Decadron* (dexameth RVD = Revlimid* (lenalidomide), Velcade* (bortezomib), and Decadron* (dexamethasone) VGPR: very good partial response; MRD: minimal residual disease	nasone); Moreau P, et al. Lancet; 2019;394:29- Voorhees PM, et al. IMW 2019:OAB-

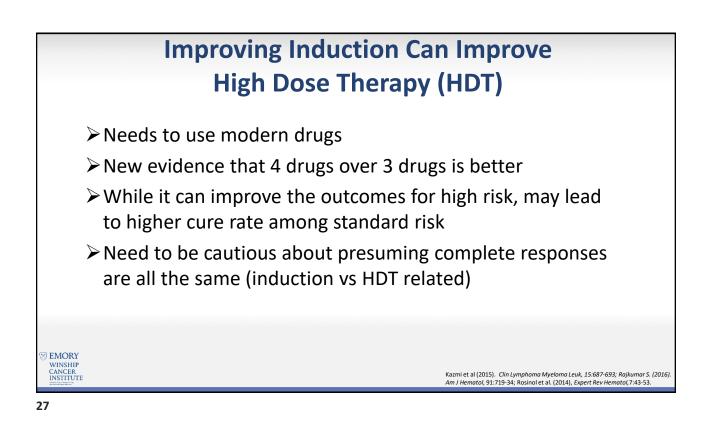


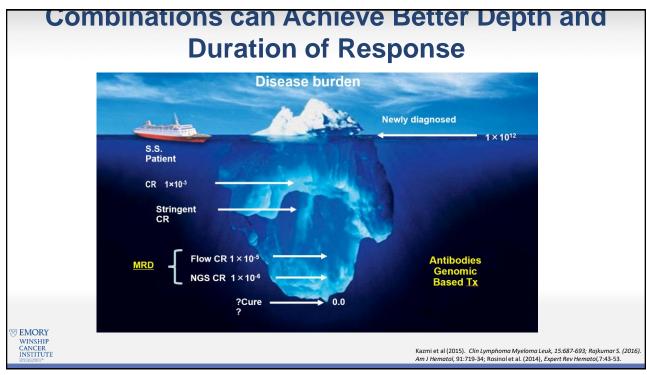






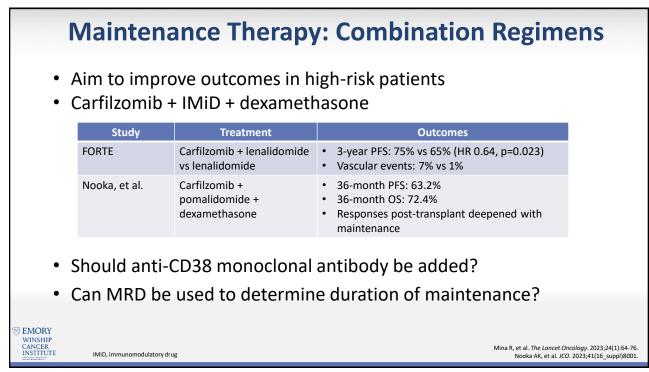


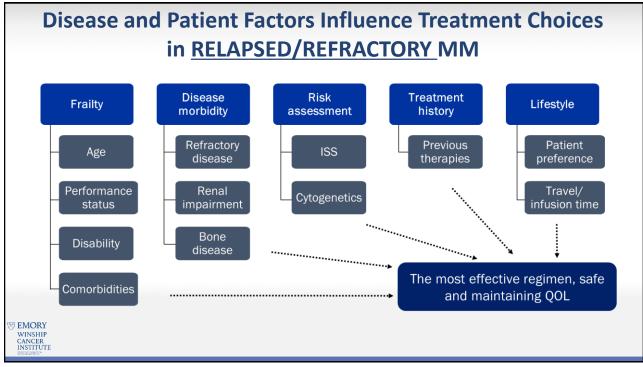


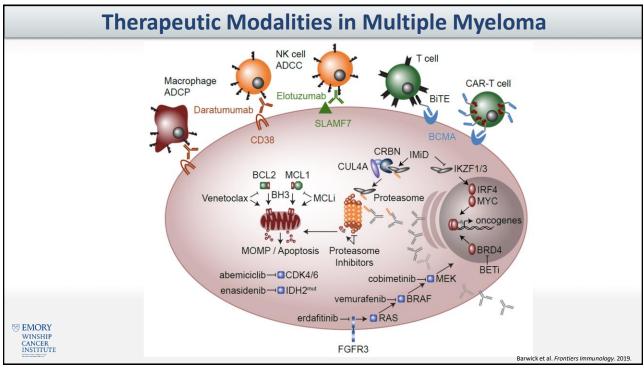


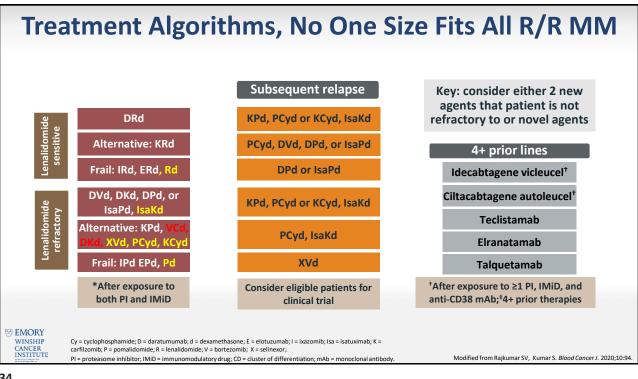
	Maintenance The	rapy
Lenalidom	ide (Revlimid [®]) post ASCT	
Two phase	e III clinical trials	
	CALGB 100104	IFM 2005-02
Design	Lenalidomide (Revlimid [®]) (n=231) vs. placebo (n=229) post ASCT	Lenalidomide (Revlimid [®]) (n=307) vs. placebo (n=307) post ASCT
Medium follow-up	34 months	30 months
Outcomes	Disease progression or death: 37% (lenalidomide [Revlimid [®]]) vs. 58% (placebo) Median time to progression: 46 months (lenalidomide [Revlimid [®]]) vs. 27 months (placebo)	Median PFS: 41 months (lenalidomide [Revlimid [®]]) vs. 23 months (placebo)
PFS, progression free su	vival	McCarthy PL. N Engl J Med. 2010;366: Attal M. N Engl J Med. 2012;366:

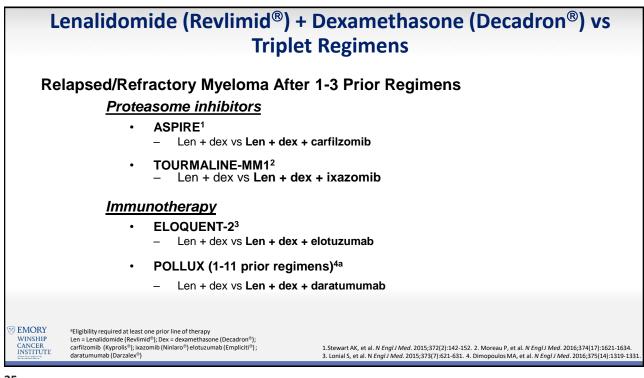
Maintenance Therapy	/
 Ixazomib (Ninlaro[®])[a second-generation principation] was evaluated versus placebo in prourmaline-MM3 trial 	
 PFS was superior with ixazomib (Ninlaro[®]) (median 26.5 mo versus 21.3 mo, p=0.002) 	versus placebo
 Conversion from MRD positive at study ent negativity was higher with ixazomib (Ninlar (12% versus 7%) 	•
State WINSHIP CANCER INSTITUTE INSTITUTE PFS, progression free survival; MRD, minimal residual disease	Dimopoulos MA, et al. Blood; 2018:132:301.



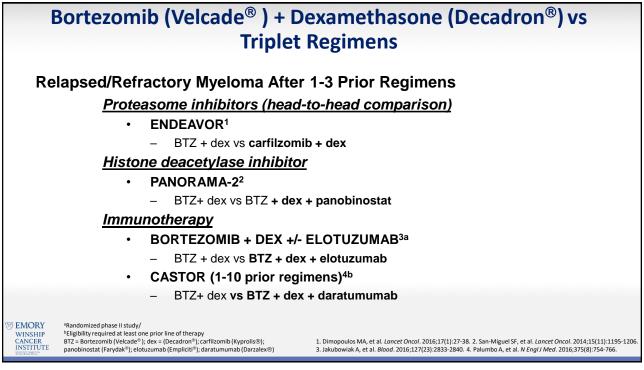


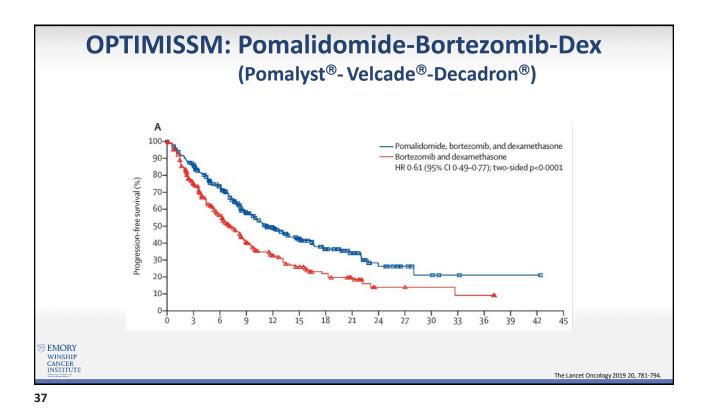


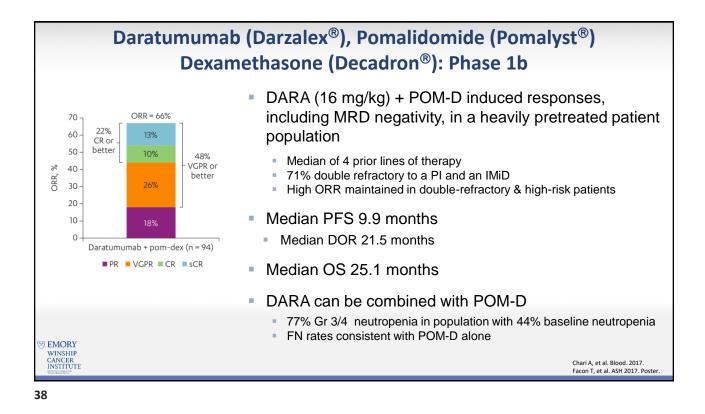


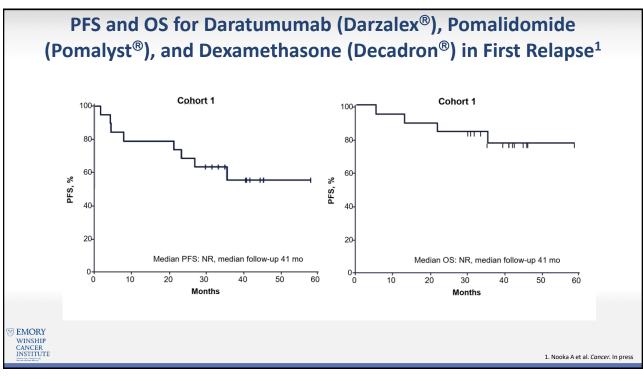




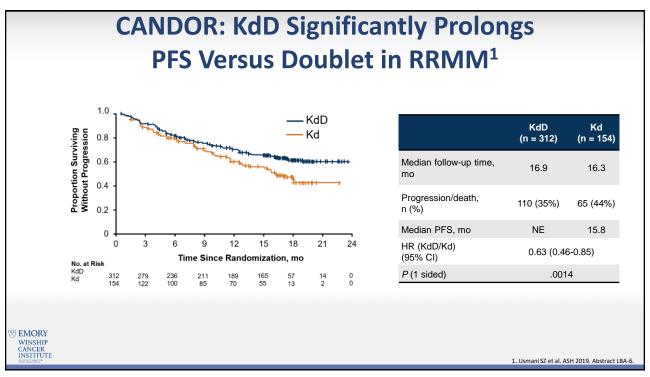


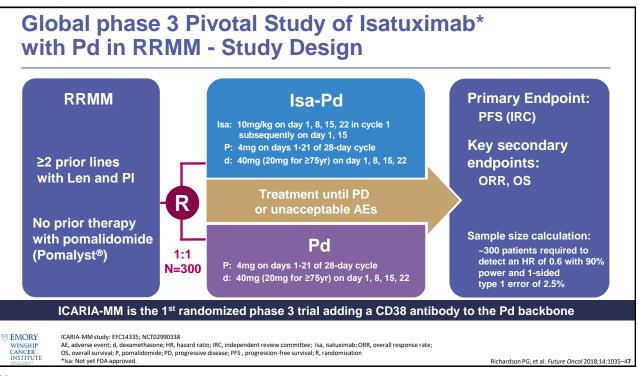


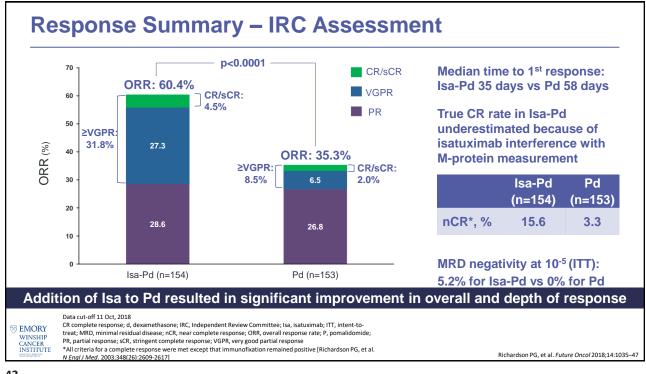


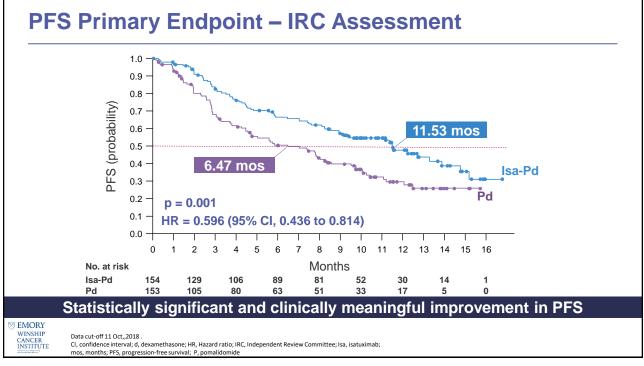




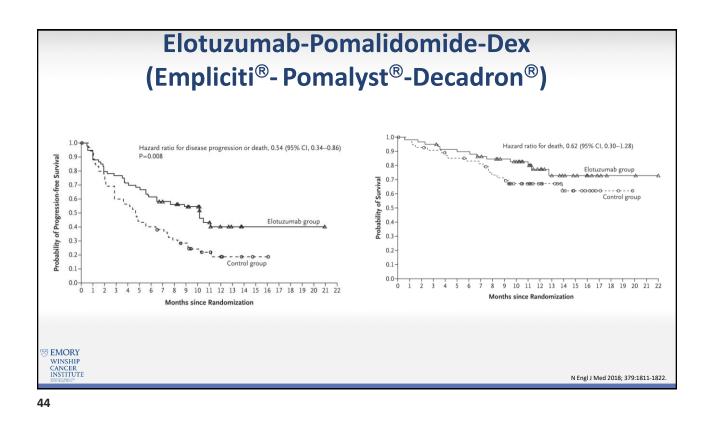


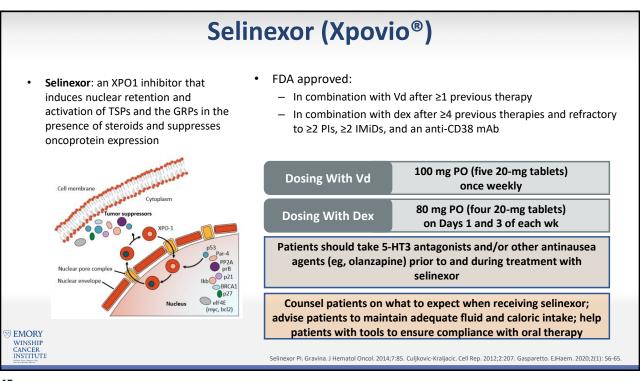






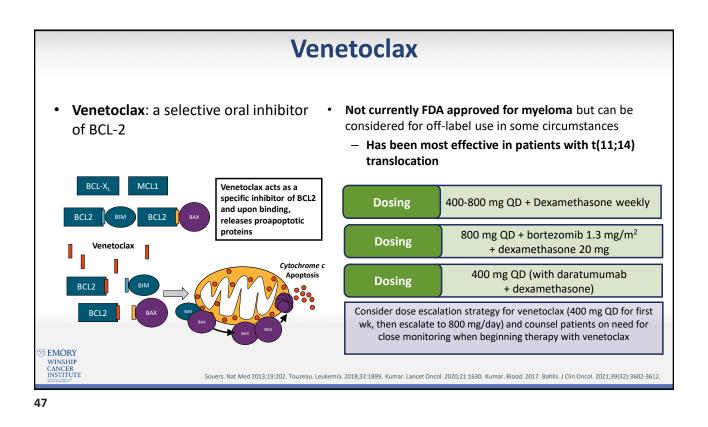


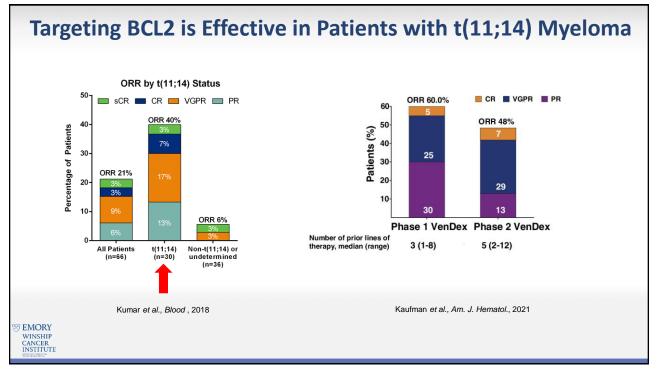


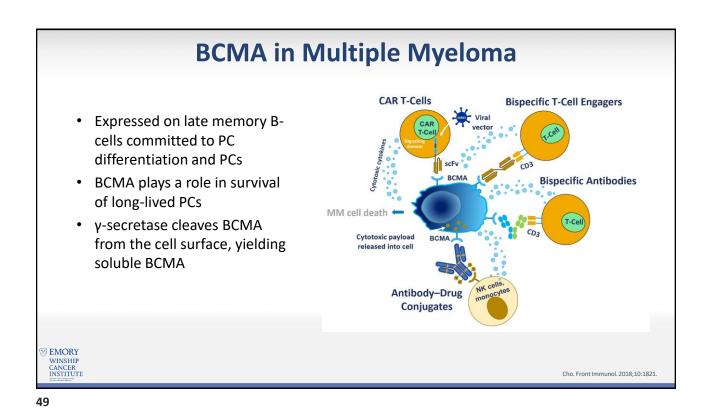


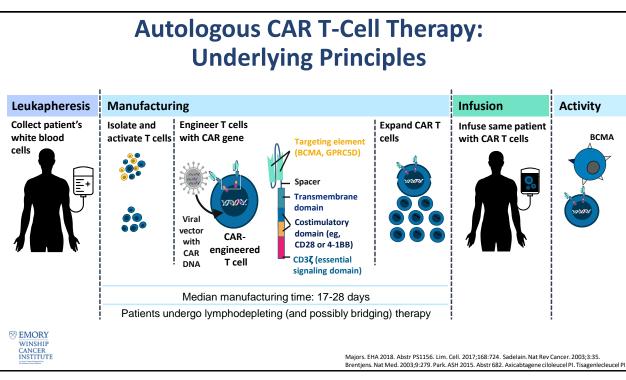
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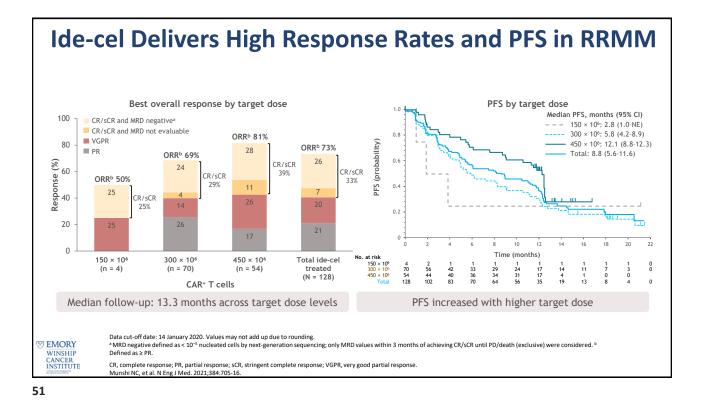
Trial	Line of Therapy	Regimen	Efficacy/Safety Endpoints
STORM (Phase IIb; n=122)	3+	Selinexor PO + dexamethasone Selinexor 80 mg twice weekly 	 ORR: 26% PFS: 3.7 months All-grade thrombocytopenia (73%), anemia (67%), neutropenia (40%), nausea (72%)
BOSTON (Phase III; n=402)	1-3	Selinexor PO + bortezomib + dexamethasone (vs bortezomib + dexamethasone) • Selinexor 100 mg once weekly	 ORR: 76.4% (vs 62.3%) PFS: 13.9 months (vs 9.5 months) All-grade thrombocytopenia (60%), anemia (36%), neutropenia (15%), nausea (50%)
STOMP XKD (Phase Ib/II; n=33)	1+	Selinexor PO + carfilzomib + dexamethasone • Selinexor 60 – 100 mg once weekly	 66.7% PFS: 13.8 months All-grade thrombocytopenia (82%), anemia (58%), neutropenia (30%), nausea (76%)





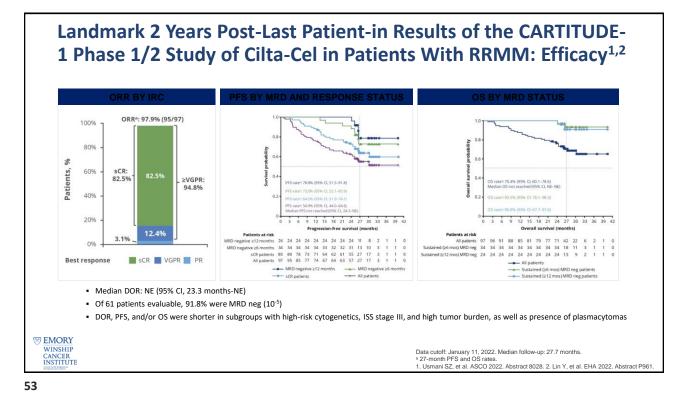


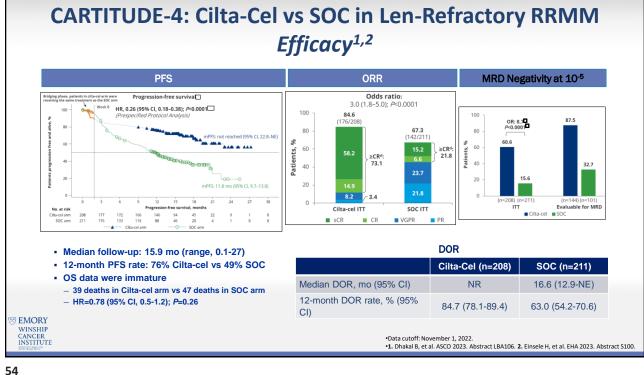


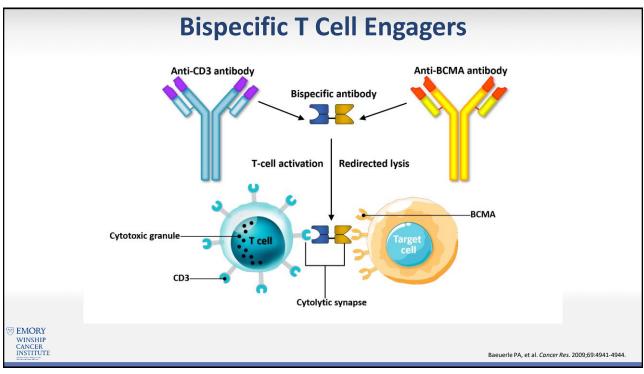




	PFS		AEs	Ide-Cel	(n=250)	SOC (r	=126)
1.0-		PFS (95% CI), months	(≥25% Any Grade)	Any Grade	Grade ≥3	Any Grade	Grade ≥3
.9- Q	Ide-cel	13.3 (11.8-16.1)	Nonhematologic				
0.9- 8.8 0.7-	73 SOC	4.4 (3.4-5.9)	CRS ^b	197 (88)	9 (4)	0	0
.6- .6-	HR 0.4	l9 (95% Cl, 0.38-0.65);	Infection ^c	146 (58)	61 (24)	68 (54)	23 (18)
See 0.5-	40	<i>P</i> <0.001	Nausea	112 (45)	4 (2)	34 (27)	0
900-0- 0.4- 0.3- 102- 0.2- 0.1-	0.30 Ide-cel		Diarrhea	85 (34)	4 (2)	30 (24)	4 (3)
-0.2-	Jone - Carlo -	hanger and have a second secon	Hypophosphatemia	78 (31)	50 (20)	10 (8)	3 (2)
Q 0.1-	Standard regimen		Hypokalemia	78 (31)	12 (5)	14 (11)	1 (1)
0 3 6	9 12 15 18 21 24 Months since Randomization	27 30 33	Fatigue	69 (28)	4 (2)	44 (35)	3 (2)
No. at Risk Ide-cel 254 206 178	149 110 62 40 22 14	4 2 0	Pyrexia	69 (28)	2 (1)	22 (17)	1 (1)
Standard regimen 132 75 42	32 25 13 10 7 6	2 1 0	Constipation	67 (27)	0	9 (7)	0
Response, n (%)	Ide-Cel (n=254)	SOC (n=132)	Hematologic				
ORR ^a	181 (71)	55 (42)	Neutropenia	195 (78)	189 (76)	55 (44)	50 (40)
CR/sCR VGPR	98 (39)	7 (5)	Anemia	165 (66)	127 (51)	45 (36)	23 (18)
PR	55 (22) 28 (11)	13 (10) 35 (27)	Thrombocytopenia	136 (54)	106 (42)	36 (29)	22 (17)
SD	31 (12)	48 (36)	Lymphopenia	73 (29)	70 (28)	25 (20)	23 (18)
PD	24 (9)	10 (8)	Leukopenia	72 (29)	71 (28)	15 (12)	11 (9)



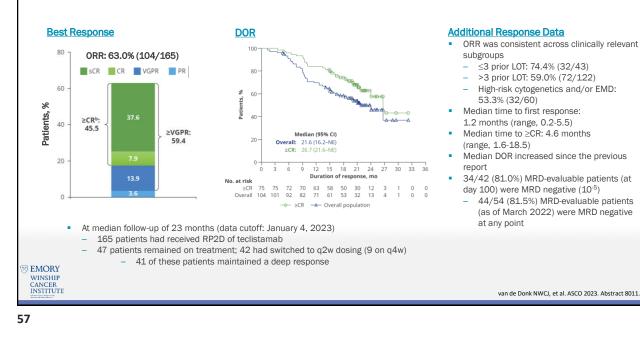




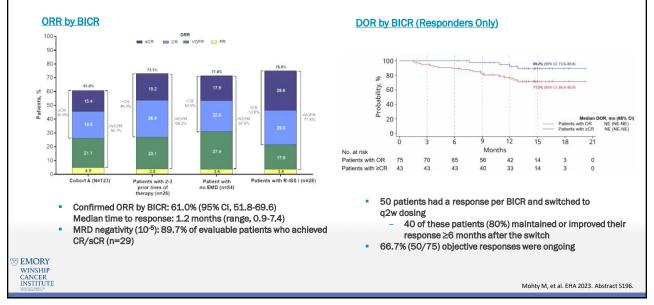


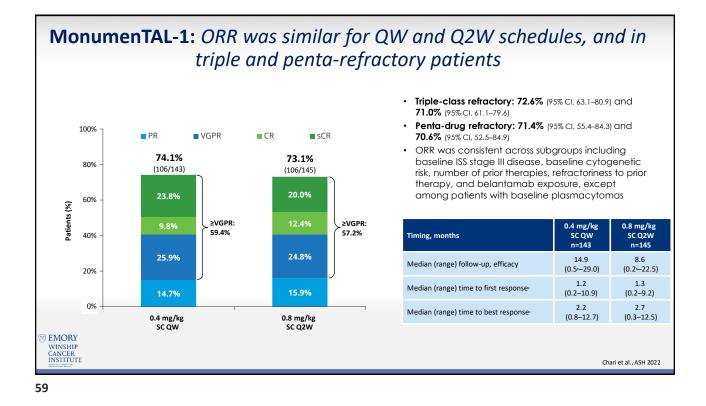
Bispecific Antibody	Teclistamab ¹⁻² (JNJ-64007957)	Elranatamab ³ (PF-06863135)	Linvoseltamab ⁴ (REGN5458)	ABBV-383 ⁵⁻⁶	Alnuctamab ⁷ BMS-93269	HPN217 ⁸
Structure/Function	Humanized antibody	Humanized antibody	Veloci-Bi [®] platform fully human antibody	Low CD3 affinity fully human antibody	Humanize antibody 2 BCMA + 1 CD3	Trispecific 50kDa (albumin
Treatment	Weekly SC	Weekly SC	Weekly IV	IV q3w	Qwk -> Q4wk SQ	Q2wk IV
Patients	n= 165	n= 123	n= 252	n= 174	n= 68	n= 62
Median prior lines	5	5	5	5	4	6
Triple-class refractory	78%	97%	81%	80%	63%	76%
ORR at RP2d	63%	61%	64%	58-61%	65%	73%
RP2D (n)	1.5 mg/kg SC (n=165)	76 mg SQ (n=123)	200 mg IV (n=58)	40 to 60 mg IV (n=52 n=59)	30 mg SQ (n=26)	?12 or 24 mg (n=13)
PFS	11.3 mos (8.8-17.1)	NE @ 12 mos	NR	13.7 or 11.2 mos	NR	NR
DOR	18.4 mos (14.9-NE)	NE @12 mos	89% @ 6 mos	NE	NE	NR
Median f/u AEs, (All/(Gr 3+);	14.1 mos /23 mos	10.4 mos	3.2 mos	6.8	4.6 mos	
CRS Infections	72% (0.6%) 80% (55%)	58% (0%) 67% (35%)	44% (1%) 54% (29%)	60% (1%) (22%)	53% (0%) 34% (9%)	27 (0%) 45% (16%)
Neutropenia	72% (66%)	48% (48%)	25% (23%)	34% (26%)	37%(32%)	16% (13%)
Anemia	52% (37%)	48% (37%)	36% (31%)	37% (16%)	38%(25%)	44% (34%)
Thrombocytopenia	40% (21%)	26% (24%)	18% (6%)	29% (11%)	24%(9%)	NR
Neuro	Neurotoxicity 15% (0.1)	NR/PN?	ICANS 2% (1%)	5% (0.1%)	ICANS 3 (0%)	16% (0%)
# Deaths	68/(41 due to PD)	21 (/11 due to PD)	NR	46	1	NR
Hypogamma/IVIg	72%//46%	75%/40%	NR	NR		

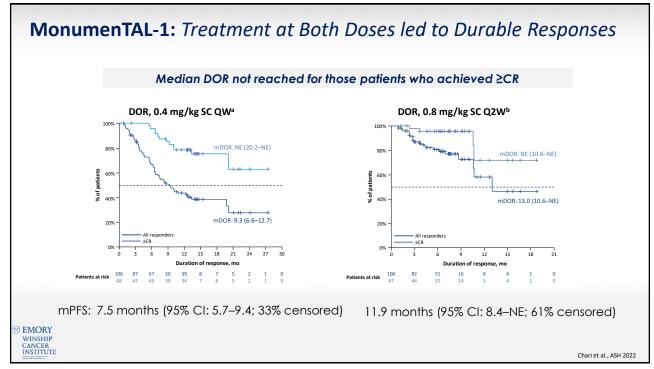
Long-Term Follow-Up Results From the MajesTEC-1 Phase 1/2 Study of Teclistamab in Patients With RRMM: Treatment and Response

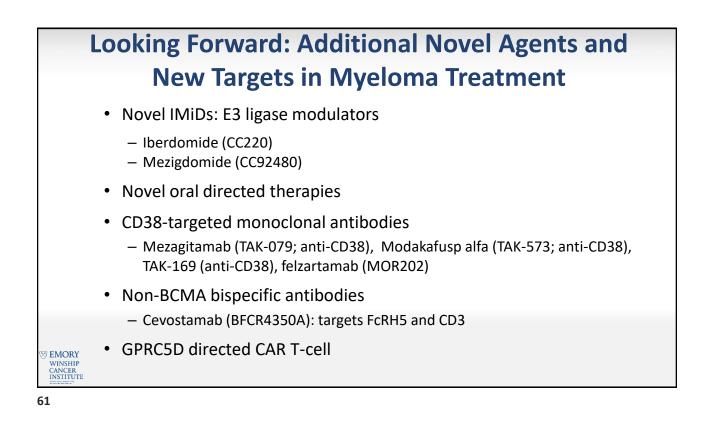


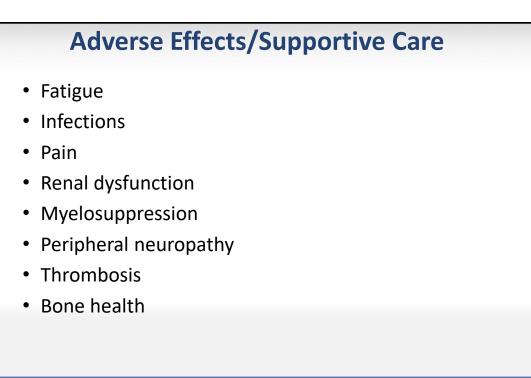
Updated Cohort A Results From the MagnetisMM-3 Phase 2 Study of Elranatamab in BCMA-Naive Patients With RRMM: Response











EMORY WINSHIP CANCER INSTITUTE

Thalidomide (Thalomid®)	Lenalidomide	
	(Revlimid®)	Pomalidomide (Pomalyst®)
Adverse Peripheral neuropathy, Effects constipation, drowsines	Neutropenia, s thrombocytopenia, rash, fatigue, diarrhea	Myelosuppression, fatigue, diarrhea/constipation
DLT Neuropathy	Neutropenia and thrombocytopenia	Neutropenia
Notes No dose adjustment needed for renal or hepatic function	Secondary malignancies	Peripheral neuropathy <5%

Proteasome Inhibitors						
	Bortezomib (Velcade®)	Carfilzomib (Kyprolis®)	Ixazomib (Ninlaro®)			
Adverse Effects	Peripheral neuropathy, constipation/diarrhea, myelosuppression, N/V, fatigue	Myelosuppression , TTP/HUS, N/V, diarrhea, infusion reactions, heart failure, edema, SOB	Diarrhea/constipation, thrombocytopenia, peripheral neuropathy, N/V, edema, and eye irritation			
DLT	Peripheral neuropathy (IV > subQ); myelosuppression	Neutropenia, thrombocytopenia	Neutropenia, thrombocytopenia			
Notes	VZV prophylaxis CYP2C19 and 3A4 substrate	VZV prophylaxis Less peripheral neuropathy than bortezomib (Velcade®)	VZV prophylaxis Less peripheral neuropathy than bortezomib (Velcade [®])			

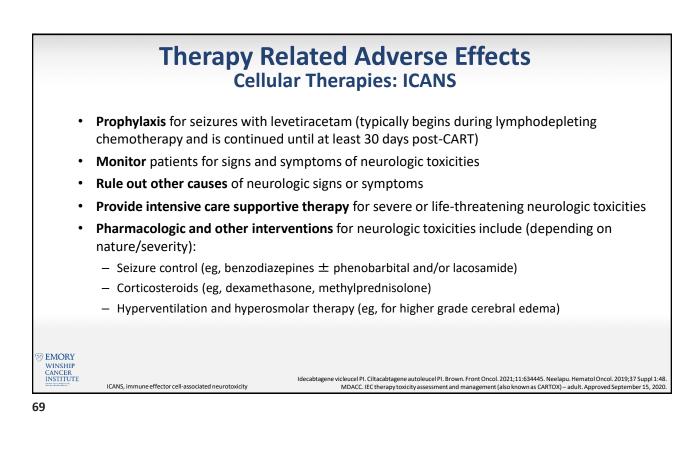
Daratumumab (Darzalex®)Elotuzumab (Empliciti®)Adverse EffectsInfusion reactions, fatigue, back pain, headache, pyrexia, cough, upper respiratory tract infectionInfusion reactions, fatigue, diarrhea/constipation, pyrexia, cough, peripheral neuropathy, nasopharyngitis, upper respiratory tract infection, electrolyte changesNotesPre-infusion medication (all cycles) Post-infusion medication (cycle 1 and high risk patients) VZV prophylaxisPre-infusion medication (all cycles) Used in combination with IMiD and dexamethasone VZV prophylaxis	The	erapy Related Ac Monoclonal An	
Effectspain, headache, pyrexia, cough, upper respiratory tract infectiondiarrhea/constipation, pyrexia, cough, peripheral neuropathy, nasopharyngitis, upper respiratory 		Daratumumab (Darzalex [®])	Elotuzumab (Empliciti®)
Post-infusion medication (cycle 1 and high risk patients)Used in combination with IMiD and dexamethasone		pain, headache, pyrexia, cough,	diarrhea/constipation, pyrexia, cough, peripheral neuropathy, nasopharyngitis, upper respiratory
	Notes	Post-infusion medication (cycle 1 and high risk patients)	Used in combination with IMiD and dexamethasone

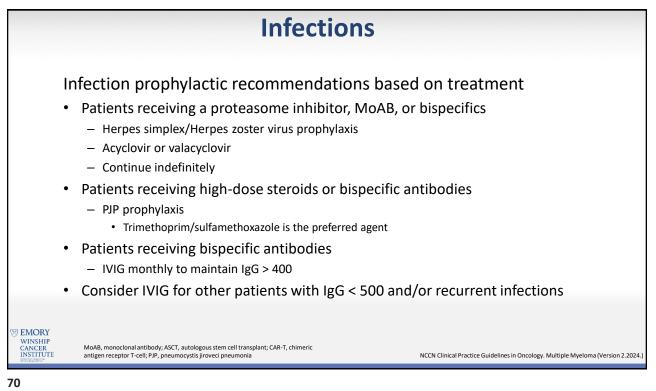
	Thera	py Related Adverse Effects Selinexor (Xpovio™)	
		Selinexor (Xpovio™)	
	MOA	First-in-class nuclear export inhibitor; reversibly inhibits nuclear export of tumor suppressor proteins, growth regulators, and mRNAs of oncogenic proteins by blocking exportin 1	
	Adverse Effects	Myelosuppression, fatigue, N/V, diarrhea, decreased appetite, weight loss, hyponatremia, hypokalemia, dyspnea, URTI	
	Notes	Crosses the BBBAnti-emetic regimen recommended	
EMORY WINSHIP CANCER INSTITUTE		Xpovio [™] (selinexor) [prescribing information]. Newton, MA: Karyo	pharm Therapeutics Ir

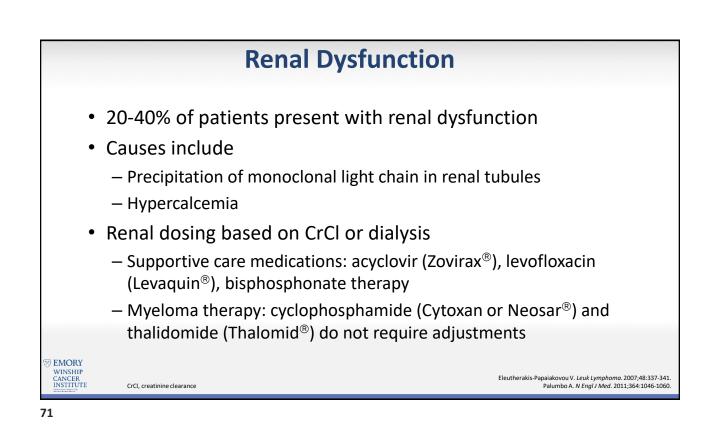
Thera	py Related Adverse Effects Venetoclax (Venclexta®)
	Venetoclax (Venclexta®)
MOA	BCL-2 inhibitor; selectively inhibits the anti-apoptotic protein BCL-2, which is overexpressed in a subset of myeloma cells
Adverse Effects	Tumor lysis syndrome, neutropenia, diarrhea, and nausea
Notes	 Major CYP3A4 substrate Considering initiating TLS prophylaxis Most effective in patients with translocation 11;14 (t(11;14))
	Venclexta (venetoclax) [prescribing information]. Nor Kumar S, et a

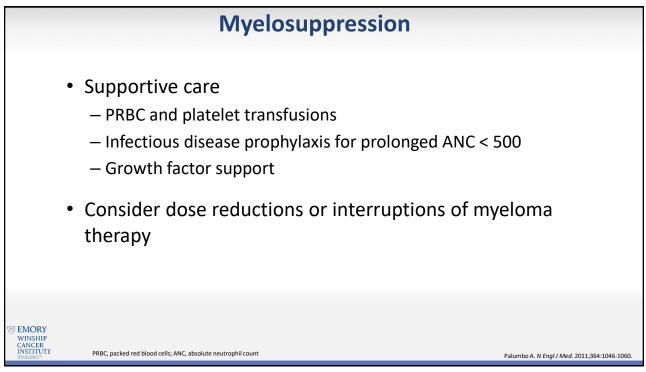
Therapy Related Adverse Effects Cellular Therapies: CRS Grade Tocilizumab Tocilizumab: Onset ≥72 hr after infusion, treat symptomatically; onset <72 hr after infusion, consider tocilizumab 8 mg/kg IV over 1 hr (to maximum of 800 mg) rticosteroids: Consider dexamethasone 10 mg IV every 24 hr

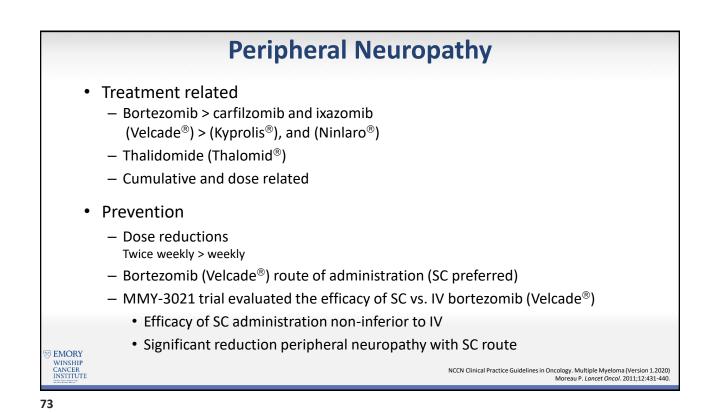
		Corticosteroids: Consider dexametnasone 10 mg IV every 24 hr
		Tocilizumab 8 mg/kg IV over 1 hr (to maximum of 800 mg), repeat every 8 hr as needed if not responsive to IV fluids or supplemental O_2
2.2		Corticosteroids: Dexamethasone 10 mg IV every 12-24 hr
2-3	2-3	If no improvement in 24 hr or rapid progression, repeat tocilizumab and escalate to dexamethasone 20 mg IV every 6-12 hr
		If no improvement in 24 hr or continued rapid progression, repeat tocilizumab and switch to methylprednisolone 2 mg/kg followed by 2 mg/kg divided 4 times/day
		Tocilizumab 8 mg/kg IV over 1 hr (to maximum of 800 mg), repeat every 8 hr as needed if not responsive to IV fluids or supplemental O_2
4 (ICU/cri care requi		Corticosteroids: Dexamethasone 20 mg IV every 6 hr
	,	If no improvement in 24 hr, consider methylprednisolone (1-2 g, repeat every 24 hr if needed; taper as clinically indicated) or other anti–T-cell therapies
	After 2 d or 4 dose	loses of tocilizumab, consider alternative anticytokine agents; do not exceed 3 doses of tocilizumab in 24 hr, es total
NCER	S, cytokine rele	ease syndrome Idecabtagene vicleucel PI. Citacabtagene autoleuc



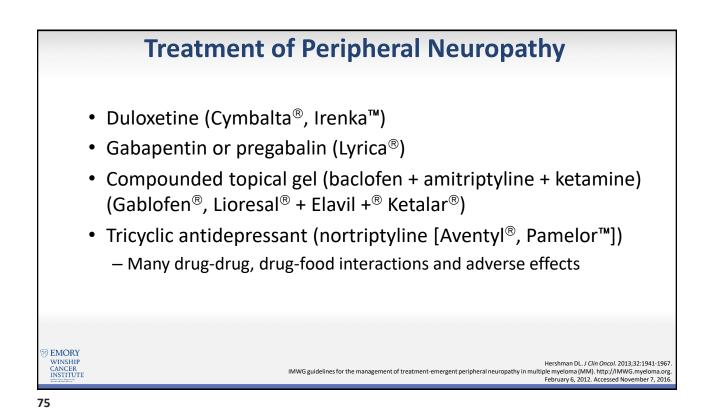




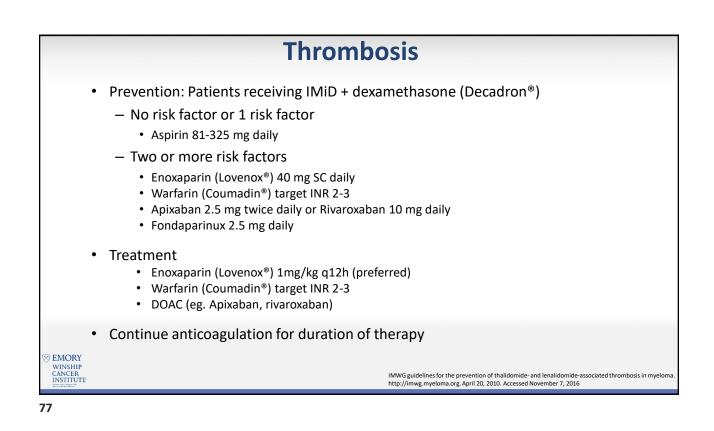


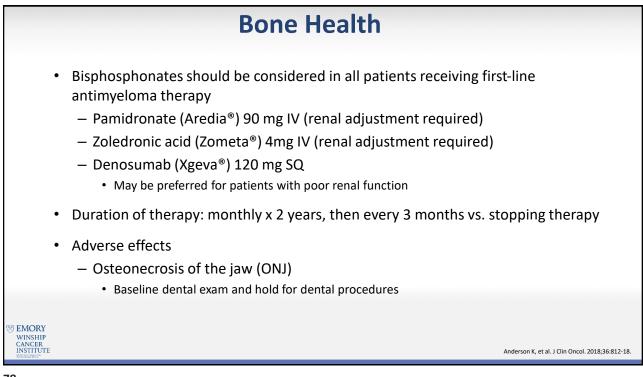


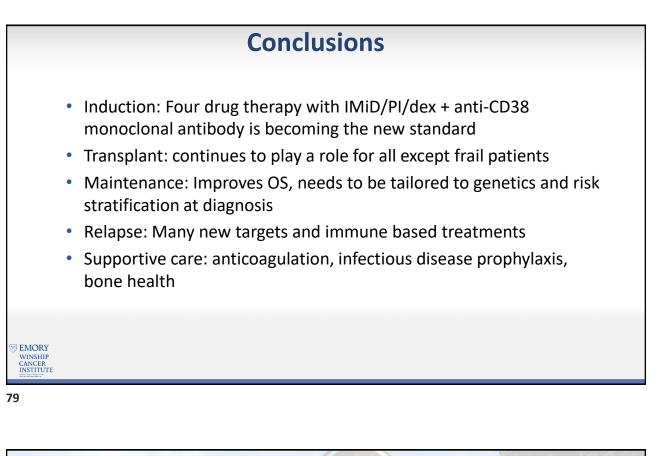
Peripheral N	europathy
Bortezomib (Velcade [®]) de	ose reductions
Severity of Peripheral Neuropathy	Recommendation
Grade 1 (no pain or loss of function)	Reduce bortezomib (Velcade [®])dose by one level or if receiving twice weekly change to once weekly at the same dose
Grade 1 with pain or Grade 2 with no pain but limiting activities of daily living	Reduce bortezomib (Velcade [®]) dose by one level or if receiving twice weekly change to once weekly at the same dose
Grade 2 with Pain, Grade 3 or 4	Discontinue bortezomib (Velcade [®])
	IMWG guidelines for the management of treatment-emergent peripheral neuroj http://INWG.myeloma.org. February 6, 20

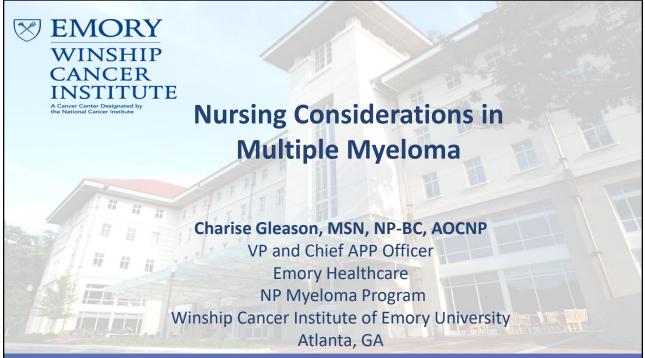


Thrombosis		
Incidence	Risk Factors	
– All cancers: > 7%	– Obesity	
– Myeloma: 3-10%	 Previous VTE 	
Treatment related	 Central venous catheter 	
 Thalidomide + dexamethasone (Thalomid[®] + Decadron[®]) 14-26% (newly diagnosed) 2-8% (relapsed) 	 Comorbid conditions: cardiac disease, CKD, DM, acute infection Immobility Surgery 	
 Lenalidomide + dexamethasone (Revlimid[®] + Decadron[®]) 8-75% (newly diagnosed) 	– Therapy with IMiDs	
• 8-16 % (relapsed)		
EMORY WINSHIP VTE, venous thromboembolism; CANCER CKD, chronic kidney disease; DM, diabetes mellitus	Palumbo A. <i>Leukemia</i> . 2008;22:414- IMWG guidelines for the prevention of thalidomide-associated thromb in myeloma. http://imwg.myeloma.org. April 20, 2010. Accessed November 7, 21	









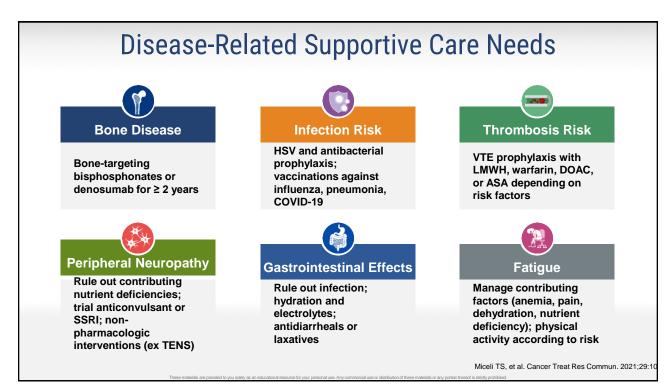
Initial Diagnosis

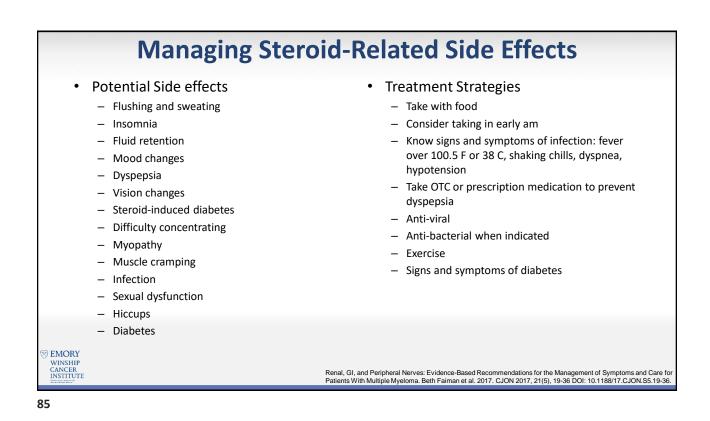
- Important to provide detailed information about treatment and potential side effects
- · Remind patients to report symptoms or side effects early
- Provide handouts
- Financial and Social support
- Local and national support groups
- Shared decision making

Ever-Increasing Factors to Consider			
Patient Factors	Disease	MM Risk Stratification	
Clinical Age/frailty Performance status Drug metabolism Kidney insufficiency Comorbidities Intangible Lifestyle/preferences Access to care Caregiver support Compliance/adherence 	Disease burden Stage Rate of rise Marrow burden CRAB symptoms Extramedullary involvement Molecular biology Cytogenetic risk status	Standard risk (~75% of patients) • Trisomies • $t(11;14)$ • $t(6;14)$ High risk (~25% of patients) • $t(4;14)$ • $t(14:16)$ • $t(14;20)$ • $del(17p)$ • $gain(1q)$ • Double hit: 2 high-risk factors • Triple hit: \geq 3 high-risk factors	
RAB, hypercalcemia, renal failure, anemia, and/or lytic bone	esion.		

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Select Adverse Events and Prophylaxis by Drug Class				
Proteasome Inhibitors	Immunomodulatory Agents	Anti-CD38 Monoclonal Antibodies	Corticosteroids	
 Herpes zoster prophylaxis Peripheral neuropathy (bortezomib) Monitor/manage cardiac conditions carefully (carfilzomib) Thromboprophylaxis (carfilzomib) 	 Prophylactic anticoagulation 81-mg aspirin for patients with no risk factors Warfarin or LMWH for higher-risk individuals Possible role for DOACs 2 birth control methods required Cytopenias 	 Premedicate with corticosteroids, antipyretics, and antihistamines prior to daratumumab Herpes zoster prophylaxis Consider <i>Pneumocystis jiroveci</i> pneumonia prophylaxis per institutional practice Interference with blood typing and response monitoring Evaluate hepatitis B viral serologies at baseline 	 Hyperglycemia Fatigue Hyperactivity Infection risk Muscle wasting 	
MORY VINSHIP ANCER NSTITUTE MEMBERS		Kurtin. J Adv Pract Oncol. 2013;4:307. Raje. J NCCN. Clinical practice guidelines in oncology	Natl Compr Canc Netw. 2014;12:502. y: multiple myeloma. v.1.2024. nccn.org. Daratumumab	





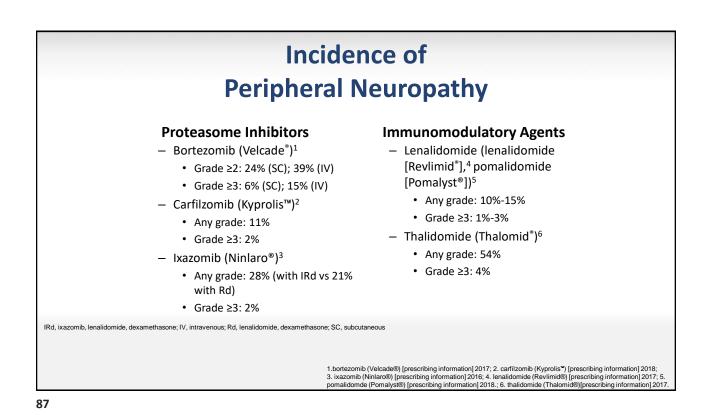
Peripheral Neuropath

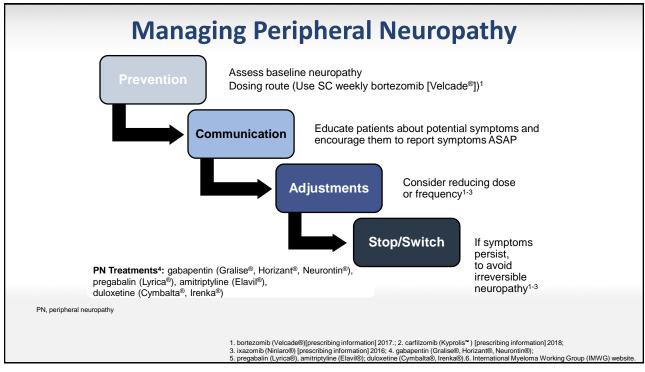
- Sensory
 - Numbness, tingling, pain in hands or feet
 - Difficulty hearing, ringing or buzzing in ears
 - Weakness
- Motor
 - Trouble fastening buttons
 - Difficulty opening things or unable to feel small objects
 - Difficulty ambulating

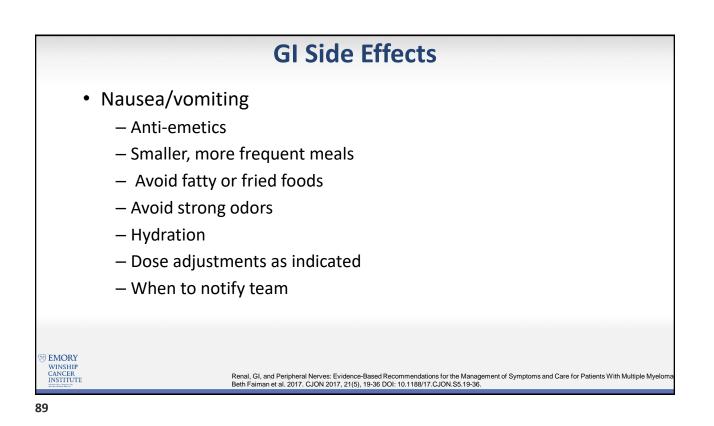
- Treatment Strategies
 - Cocoa butter
 - B-complex vitamins
 - Folic acid supplements
 - Physical therapy
 - Duloxetine (Cymbalta[®], Irenka[®])
 - Gabapentin (Gralise[®], Horizant[®], Neurontin[®]) or pregabalin (Lyrica[®])
 - Compounded topical gel
 - Tricyclic antidepressant (nortriptyline [Aventyl[®], Pamelor[®]])

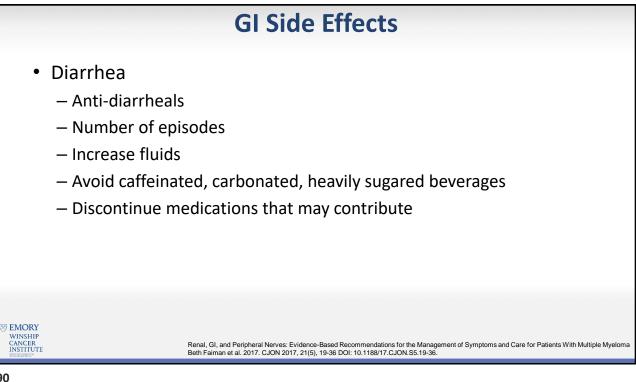
Tariman JD, Love G, McCullagh E, Sandifer S; IMF Nurse Leadership Board. Tariman JD, et al. Clin J Oncol Nurs. 2008 Jun;12(3 Suppl):29-36. doi: 10.1188/08.CJON.S1.29-35. Clin J Oncol Nurs. 2008. PMID: 18490255.

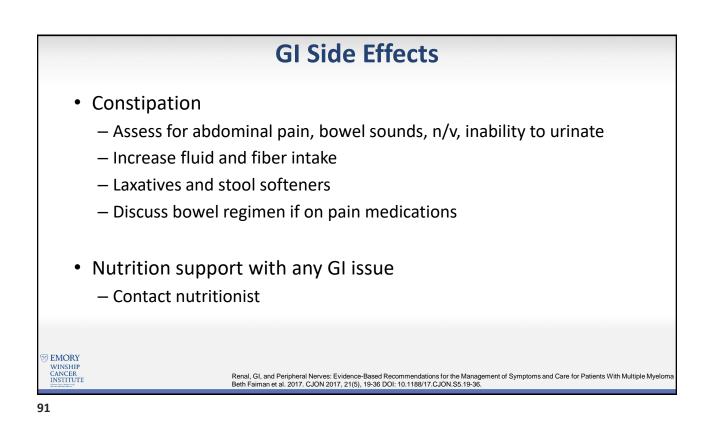
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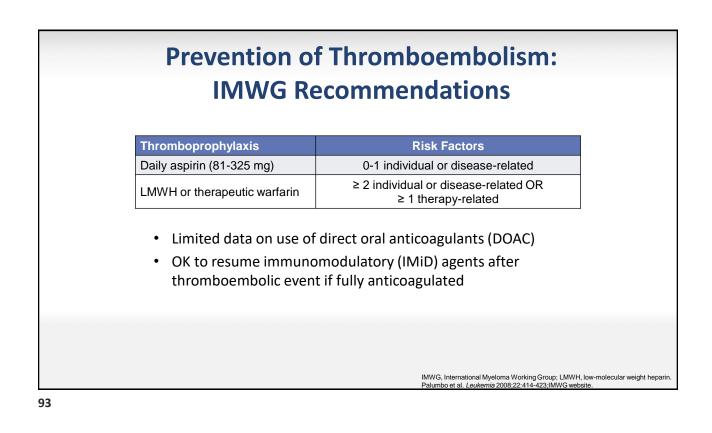
Thromboembolic Events – DVT/PE

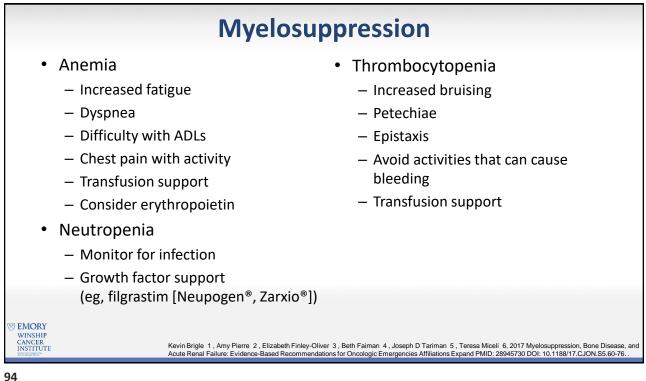
- Risk factors
 - Immobility
 - Obesity
 - Smoking
 - History of blood clots
 - Estrogen
 - Еро
 - Surgery
 - Travel
 - Central venous catheter
 - Comorbid conditions
 - Therapy with IMiDs

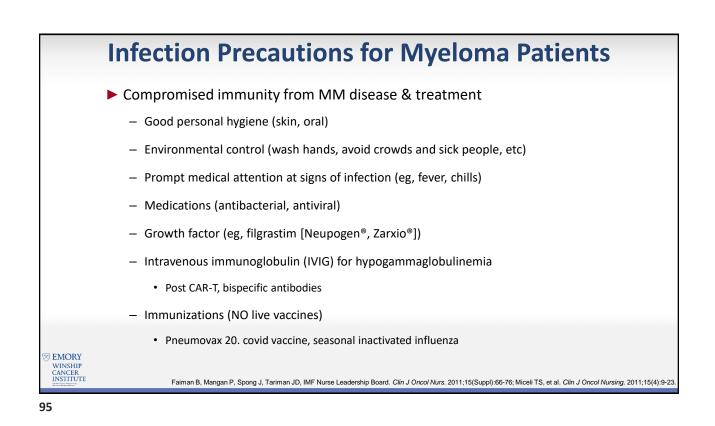
- Signs and symptoms
 - Swelling, pain, aching, tightness
 - Tachycardia
 - Veins distended
- Treatment
 - Considered medical emergency
 - Prophylaxis based on risk factors
 - Low dose aspirin if no risk factors
 - Low molecular weight heparin or oral agents
 - Continue anticoagulation for duration of therapy

DVT = deep venous thrombosis; IMiDs = Immunomodulatory drugs; PE = pulmonary embolism; MM = multiple myeloma; Epo= epoetin alfa.

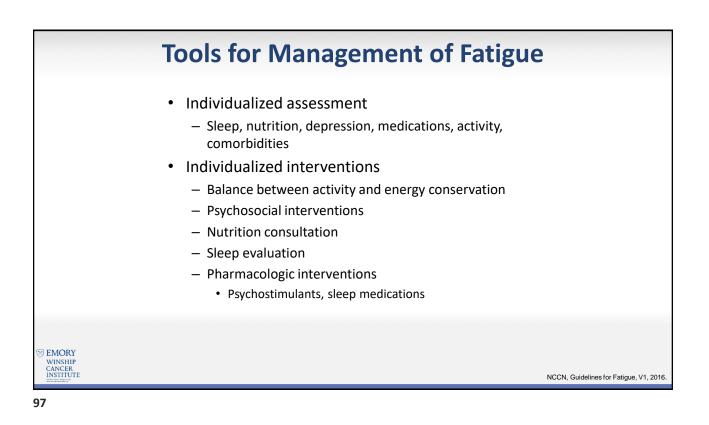
Palumbo et al, 2014, International Myeloma Working Group consensus statement for the management, treatment, and supportive care of patients with myeloma not eligible for standard autologous stem-cell transplantation. J. Clin. Oncol. 2014;32:587–600. doi: 10.1200/JCO.2013.48.7934; Palumbo et al, 2008. Leukemia 22(2):414-423.

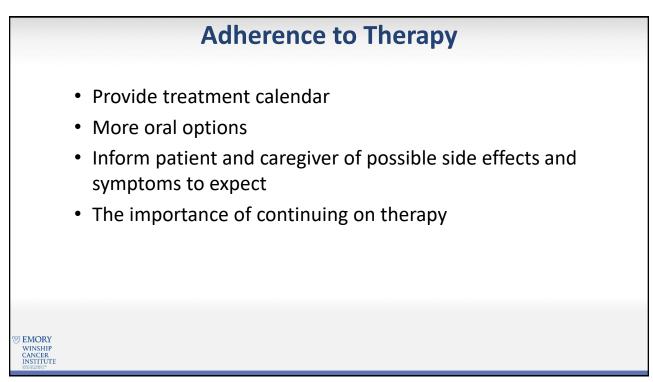


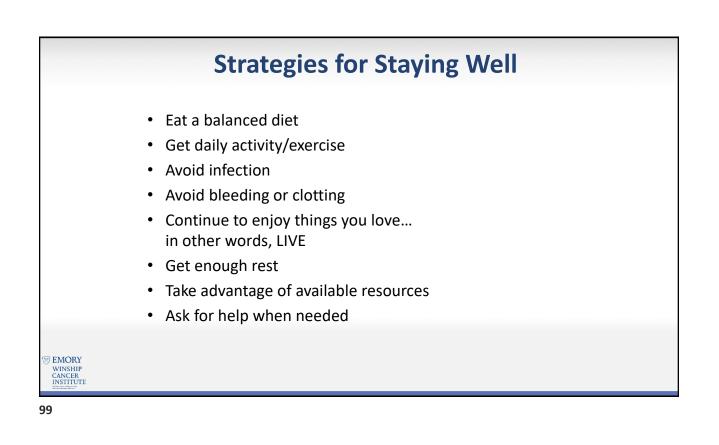


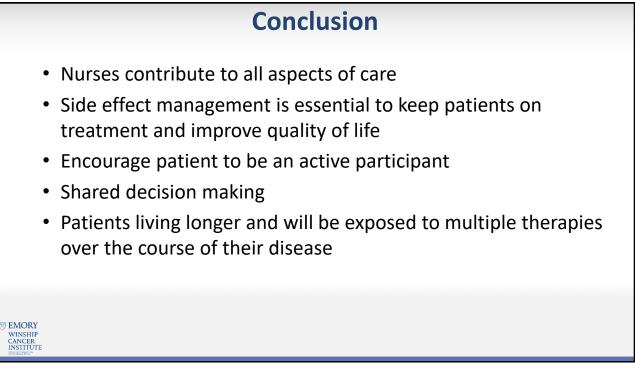


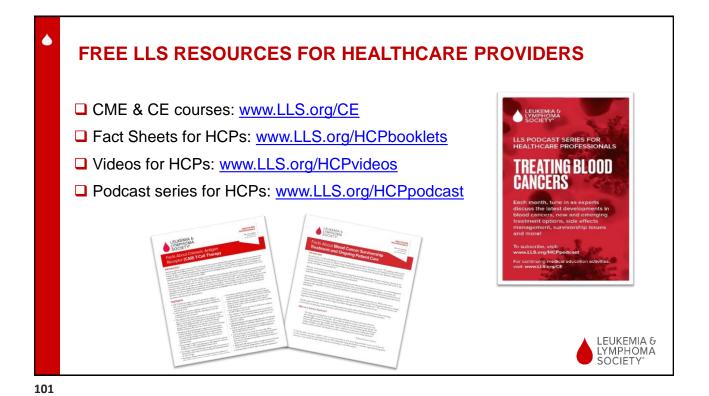
	Antiviral Prophylaxis
•	Herpes zoster (shingles) resulting from VZV reactivation has a substantial negative effect on quality of life ¹
•	MM is associated with more than a 4-fold risk of herpes zoster ¹
•	Risk of VZV reactivation increases with PI treatment² Post-ASCT³
•	 Monoclonal antibody treatment⁴ Acyclovir (Zovirax[®]) is standard prophylaxis Reduces risk to 1%-2%
•	Adjuvanted shingles vaccine for patients with MM ⁶ — More than 90% effective among more than 38,000 individuals
	 High efficacy, no safety signals after ASCT
CT, autologous	stem cell transplantation; MM, multiple myeloma; PI, proteasome inhibitor; VZV, varicella zoster virus.
	 Hansson et al. Br J Cancer 2017;116:1643-1651. 2. Chanan-Khan et al. J Clin Oncol. 2008;26:4784-4790. 3. Kamber et al. Bone Marrow Transplant. 2015;50:573-578. Kumar et al. NCCN Guidelines. Multiple myeloma. V4.2018. 5. Fukushima et al. Anticancer Res. 2012;32:5437-5440. 6. Cunningham et al. N Engl J Med. 2016; 375:1015











۵ FREE LLS RESOURCES FOR PATIENTS Information Specialists – Personalized assistance for managing treatment decisions, side LEUKEMIA 6 LYMPHOMA SOCIETY" effects, and dealing with financial and psychosocial challenges (IRC). Personalized Nutrition Consultations www.LLS.org/IRC Clinical Trial Nurse Navigators – RNs and NPs provide a personalized service for patients seeking treatment in a clinical trial, sift through the information and provide information to bring back to their HC team (CTSC). www.LLS.org/CTSC □ Nutrition Education Services Center – one-on-one consultation with a registered dietician for patients/caregivers of all cancer types (NESC). > www.LLS.org/Nutrition Reach out Monday–Friday, 9 am to 9 pm ET o Phone: (800) 955-4572 Live chat: <u>www.LLS.org/IRC</u> Email: infocenter@LLS.org 0 LEUKEMIA & HCP Patient Referral Form: www.LLS.org/HCPreferral LYMPHOMA SOCIETY 102

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- A team of highly trained nurses and nurse practitioners experienced with hematological malignancies and clinical research.
- Provide education to patients about clinical trials, treatment options, and other disease specific information.
- Provide patients, families, and their caregivers with a professional, detailed, individualized search to discuss with their HCP.
- Provide guidance and serve as advocates throughout the clinical trial process. Help make connections between the patient and the trial site to facilitate enrollment as appropriate.
- Provide a personal connection and develop long term relationships to help better serve our patients.









