

CHAMPIONING MEDICALLY INTEGRATED ONCOLOGY:

Celebrating
a Decade of Impact



2025 NCODA INTERNATIONAL
FALL SUMMIT

Myeloma: From Current to Cutting Edge

Jordan Snyder, PharmD, BCOP

Clinical Hematology Pharmacist

University of Kansas Health System

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Championing Medically Integrated Oncology: CELEBRATING A DECADE OF IMPACT

OBJECTIVES

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1. Discuss the role of quadruplet therapy in transplant-eligible and transplant-ineligible multiple myeloma and identify appropriate use in the frontline setting
2. Review chimeric antigen receptor (CAR) T-cell therapies' use in relapsed/refractory multiple myeloma
3. Summarize the role of BCMA-targeting bispecific antibodies in the management of relapsed/refractory multiple myeloma
4. Determine an evidence-based treatment plan for relapsed/refractory multiple myeloma with available sequencing data

OBJECTIVES (Pharmacy Technicians)

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3. Summarize the role of BCMA-targeting bispecific antibodies in the management of relapsed/refractory multiple myeloma
4. Discuss an evidence-based treatment plan for relapsed/refractory multiple myeloma with available sequencing data

DISCLOSURES

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There are no relevant conflicts of interest to disclose for this presentation for the following speakers and planners:

- Jordan Snyder, PharmD, BCOP
- Tahsin Imam, PharmD
- Shawnny Eugene, PharmD

Multiple Myeloma

- Multiple myeloma is characterized by the abnormal proliferation of malignant plasma cells
- Accounts for 1% of all cancer diagnosis and 10% of all hematologic malignancies
- Median age at diagnosis is 65 years
- Occurs more commonly in men and African Americans
- Cause of nearly 13,000 deaths in the United States each year



Plasma Cell Disorder Spectrum

Monoclonal Gammopathy of Undetermined Significance (MGUS)

- Asymptomatic
- Increases risk of developing multiple myeloma at ~1% per year

Smoldering Myeloma

- Asymptomatic
- Increases risk of developing multiple myeloma at ~10% per year

Multiple Myeloma

- Rate of progression depends on cytogenetics and development of new mutations



Quad Therapy in Newly Diagnosed Myeloma

Doublets to Triplets

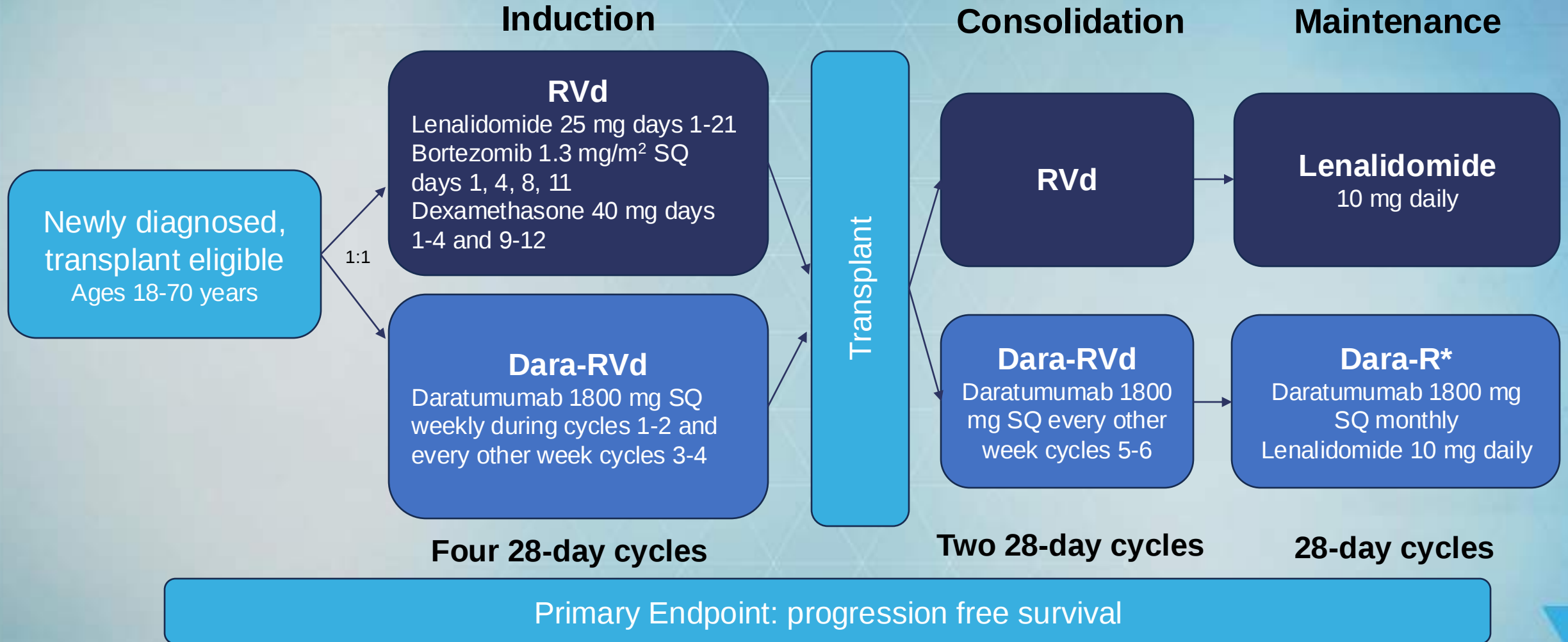
Trial	Population	Intervention	Outcomes	Impact
VISTA (2010)	NDMM, transplant ineligible (N=682)	VMP vs MP	•35% reduced risk of death at 3 years (HR 0.653, P<0.001) •3-year OS: 68.5% vs 54%	Addition of bortezomib significantly prolongs survival
GIMEMA-MMY-3006 (2012)	NDMM, transplant eligible (N=474)	VTD vs TD	•Median PFS: 60 months vs 41 months •10-year survival estimate: 34% vs 17%	Addition of bortezomib into double HSCT improved PFS and OS
SWOG S0777 (2017)	NDMM, without immediate HSCT (N=525)	VRD vs RD	•Median PFS: 43 mo vs 30 mo (HR 0.712, 95% CI 0.56-0.906; P=0.0018) •Median OS: 75 mo vs 64 mo (HR 0.709; 95% CI 0.524-0.959; P=0.025)	Triplet therapy became standard of care in NDMM

V: bortezomib; M: melphalan; P: prednisone; T: thalidomide; D: dexamethasone; R: lenalidomide; IMiD: immunomodulator; mo: months, HR: hazard ratio, CI: confidence interval, PFS: progression free survival, OS: overall survival

Quad Therapies in Transplant Eligible

Trial	Population	Intervention	Outcomes	Impact
CASSIOPEIA (2019)	NDMM, transplant eligible (N=1085)	DaraVTD vs VTD with post HSCT consolidation and maintenance	•sCR at day 100: 29% vs 20% •Median PFS: NR in either group	Clinical benefits seen in induction, consolidation, and maintenance Less impact in US as RVD considered superior to VTD
GRIFFIN (2020)	NDMM, transplant eligible (N=207)	DaraRVD vs RVD with post HSCT consolidation and maintenance with DaraR or R	•ORR post-consolidation: 99% vs 91.8% (P=0.016) •4-year PFS: 87.2% vs 70% (HR 0.45; 95% CI 0.21-0.95; P=0.032) •Median OS: NR for both groups	Addition of dara to RVD resulted in higher response rates with deepening responses over time

PERSEUS



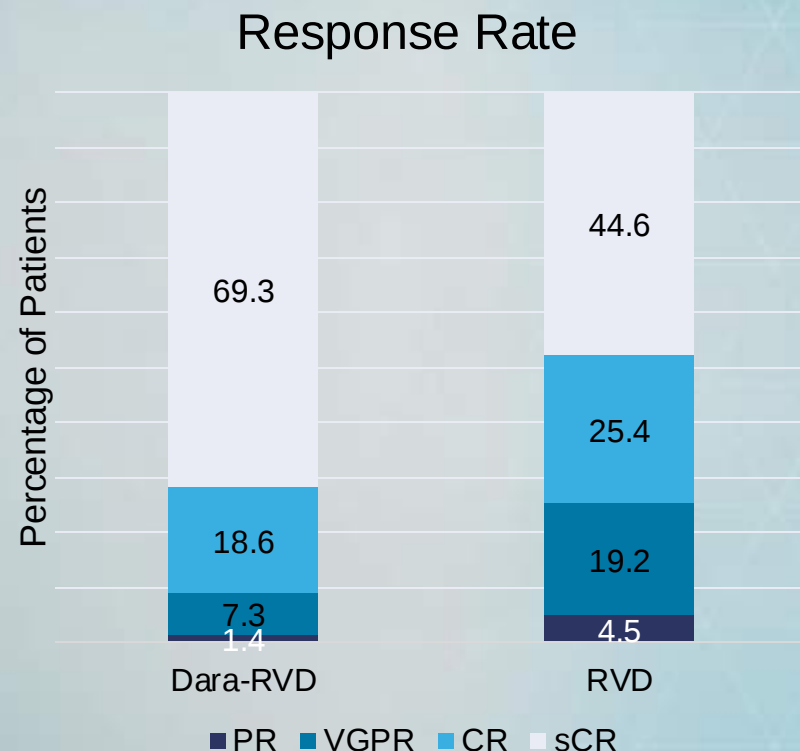
*If MRD (-) at 24 months, daratumumab was discontinued

PERSEUS – Patient Demographics

Baseline Characteristics	DaraRVd (n=355)	RVd (n=354)
Median Age, years (range)	61 (32-70)	59 (31-70)
Male, n (%)	211 (59.4)	205 (57.9)
Race, n (%) • White • Black	330 (93) 5 (1.4)	323 (91.2) 4 (1.1)
ECOG PS, n (%) • 0-1	335 (94.3)	338 (95.4)
Cytogenetic Risk, n (%) • Standard • High	264 (74.4) 76 (21.4)	266 (75.1) 78 (22)
Median time since diagnosis, months	1.2	1.1

PS: performance status

PERSEUS – Results



	Dara-RVd (n=355)	RVd (n=354)
Overall Response, n (%)	343 (96.6)	332 (93.8)
MRD (-) Status, n (%)		
• 10 ⁻⁵	267 (75.2)	168 (47.5)
• 10 ⁻⁶	231 (65.1)	114 (32.2)
Sustained MRD (-) for ≥ 12 months, n (%)	230 (64.8)	105 (29.7)
PFS at 48 months, % (95% CI)	84.3 (79.5-88.1)	67.7 (62.2-72.6)

PR: partial response, VGPR: very good partial response, CR: complete response; sCR: stringent complete response, MRD: minimal residual disease, PFS: progression free survival, CI: confidence interval

Slightly higher rates of adverse events in Dara-RVD arm vs. RVD arm including: cytopenias, infection, diarrhea, and infusion reactions

Quad Therapy in Transplant-Ineligible

Trial	Population	Intervention	Outcomes	Impact
ALCYONE (2018)	NDMM, transplant ineligible (N=706)	DaraVMP vs VMP	18-month PFS: 71.6% vs 50.2% (HR 0.5; 95% CI 0.38-0.65; p<0.001) - ORR: 90.9% vs 73.9% (p<0.001)	Consideration for quad therapy growing Less impact in US as VRD considered superior to VMP

NDMM: newly diagnosed multiple myeloma, V: bortezomib, M: melphalan, P: prednisone, PFS: progression free survival, CI: confidence interval, ORR: overall response rate, R: lenalidomide

IMROZ

Induction

Maintenance

Newly diagnosed,
transplant ineligible
Ages 18-80 years

RVd

Lenalidomide 25 mg days 1-14 and 22-36
Bortezomib 1.3 mg/m² days 1, 4, 8, 11,
22, 25, 29, 32
Dexamethasone 20 mg days 1, 2, 4, 5, 8,
9, 11, 12, 22, 23, 25, 26, 29, 30, 32, 33

Rd

Lenalidomide 25 mg days 1-21
Dexamethasone 20 mg once weekly

Isa-RVd

Isatuximab 10 mg/kg weekly during cycle
1 followed by every other week

Isa-Rd

Isatuximab 10 mg/kg every other
week cycles 5-17 followed by once
monthly

Four 42-day cycles

28-day cycles

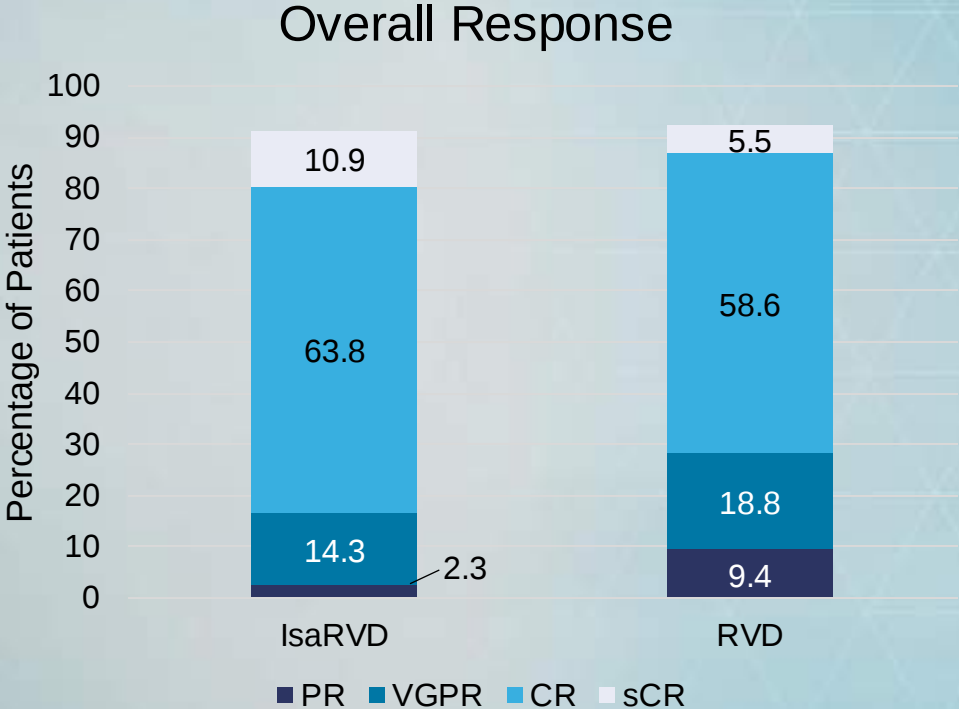
Primary Endpoint: progression free survival

IMROZ – Patient Demographics

Baseline Characteristic	IsaRVd (n=265)	RVd (n=181)
Median Age, years (range)	72 (60-80)	72 (55-80)
Male, n (%)	143 (54)	94 (51.9)
Race • White • Black	192 (72.5) 2 (0.8)	131 (72.4) 2 (1.1)
ECOG PS • 0 - 1	235 (88.7)	162 (89.5)
Cytogenetic Risk • Standard • High	207 (78.1) 40 (15.1)	140 (77.3) 34 (18.8)
Median time since diagnosis, months	1.2	1.2

PS: performance status

IMROZ – Results

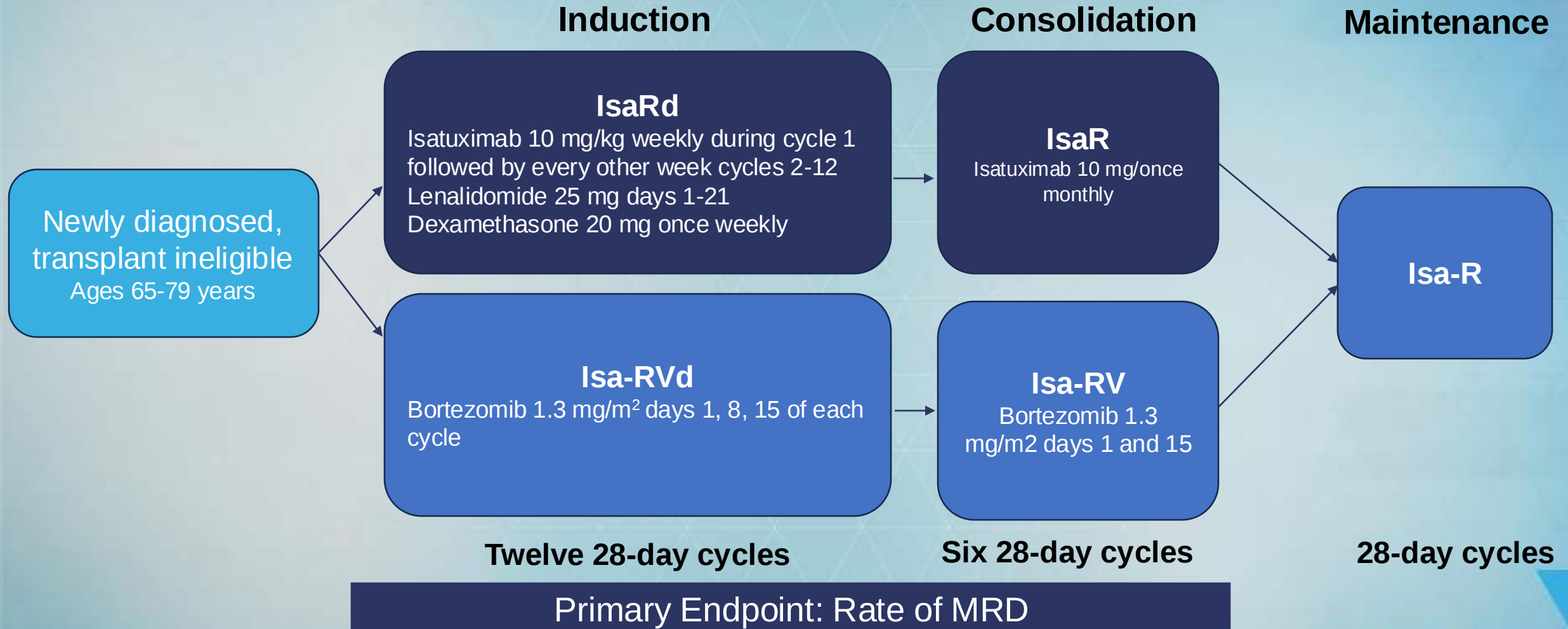


	IsaRVd (n=265)	RVd (n=181)
ORR, %	91.3	92.3
CR or better, %	74.7	64.1
60-month PFS, %	63.2	45.2
MRD- 10 ⁻⁵ , %	58.1	43.6
Estimated OS at 60 months, %	72.3	66.3

PR: partial response, VGPR: very good partial response, CR: complete response; sCR: stringent complete response, ORR: overall response rate, MRD: minimal residual disease, PFS: progression free survival, OS: overall survival

Slightly higher rates of adverse events with
IsaRVd despite higher rates of discontinuation
with RVd

BENEFIT

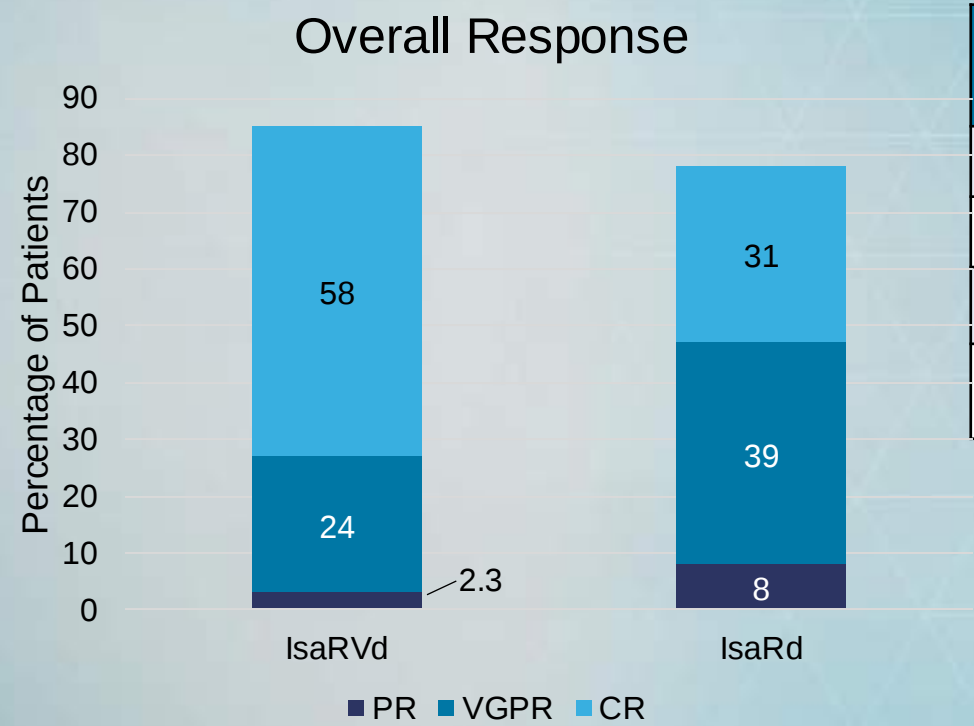


BENEFIT – Patient Demographics

Baseline Characteristic	IsaRVd (n=135)	IsaRd (n=135)
Median Age, years (IQR)	73.2 (71-76)	73.6 (71-76)
Male, n (%)	74 (55)	71 (53)
ECOG PS, n (%) • 0 or 1	125 (93)	119 (88)
Cytogenetic Risk, n (%) • Standard • High	68 (53) 13 (10)	75 (60) 10 (8)
Median time from diagnosis, months	1	0.9

PS: performance status

BENEFIT – Results



	IsaRVd (n=135)	IsaRd (n=135)
ORR, %	85	78
CR or better, %	58	31
24-month PFS, % (95% CI)	85.2 (79.2-91.7)	91.5 (86.5-96.8)
24-month OS, % (95% CI)	91.1 (86.1- 96.4)	80.0 (73.3- 87.4)

PR: partial response, VGPR: very good partial response, CR: complete response, ORR: overall response rate, PFS: progression free survival, CI: confidence interval, OS: overall survival

Slightly higher rates of adverse events with IsaRVd versus IsaRd including high rates of peripheral neuropathy

CEPHEUS

Induction

Maintenance

Newly diagnosed,
transplant ineligible
Ages 18-70 years

RVd

Lenalidomide 25 mg days 1-14
Bortezomib 1.3 mg/m² days 1, 4, 8, 11
Dexamethasone 20 mg days 1, 2, 4, 5, 8,
9, 11, 12

Rd

Lenalidomide 25 mg days 1-21
Dexamethasone 40 mg once weekly

Dara-RVd

Daratumumab 1800 mg weekly cycles 1-2
followed by every 3 weeks cycles 3-8

Dara-Rd

Daratumumab 1800 mg once
monthly

Eight 21-day cycles

28-day cycles

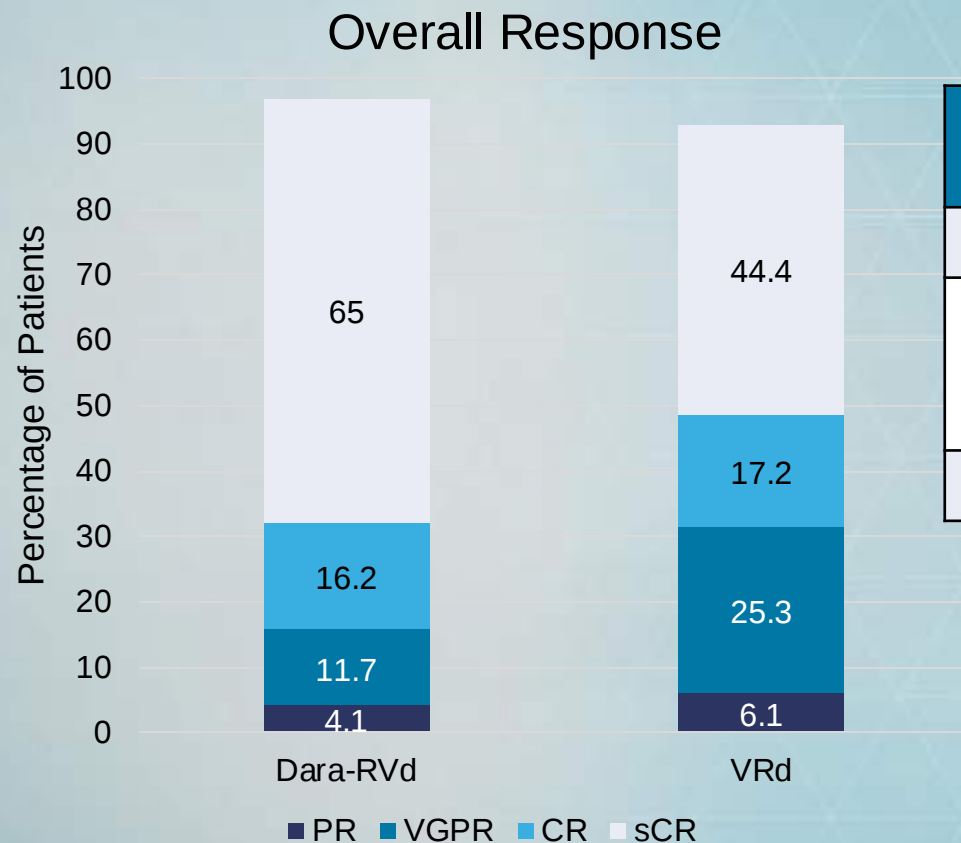
Primary Endpoint: Overall MRD (-)

CEPHEUS – Patient Demographics

Baseline Characteristic	DaraRVd (N=197)	RVd (N=198)
Median Age, years (range)	70 (42-79)	70 (31-80)
Male, n (%)	87 (44)	111 (56.1)
Race, n (%) • White • Black	162 (82.2) 10 (5.1)	156 (78.8) 9 (4.5)
ECOG PS, n (%) • 0 -1	174 (88.3)	184 (92.9)
Cytogenetic Risk, n (%) • Standard • High	149 (75.6) 25 (12.7)	149 (75.3) 27 (13.6)
Median time since diagnosis, months	1.2	1.3

PS: performance status

CEPHEUS – Results



	DaraRVd (n=135)	RVd (n=135)
≥ CR, %	81.2	61.6
MRD (-) rate, %		
• 10 ⁻⁵	60.9	39.4
• 10 ⁻⁶	46.2	27.3
Median PFS, months	NR	52.6

PR: partial response, VGPR: very good partial response, CR: complete response, MRD: minimal residual disease, PFS: progression free survival

Slightly higher rates of adverse events with DaraRVd compared to RVd including: cytopenias, infection, pneumonia, injection site reactions

Quad Therapy in Newly Diagnosed Myeloma

- Quad therapy has changed the landscape of newly diagnosed multiple myeloma
- Quad therapy showed higher rates of MRD-negativity and response rates in transplant-eligible and –ineligible myeloma
- Higher rates of adverse events were seen in patients receiving quad therapy, but did not impact outcomes



QUESTION 1

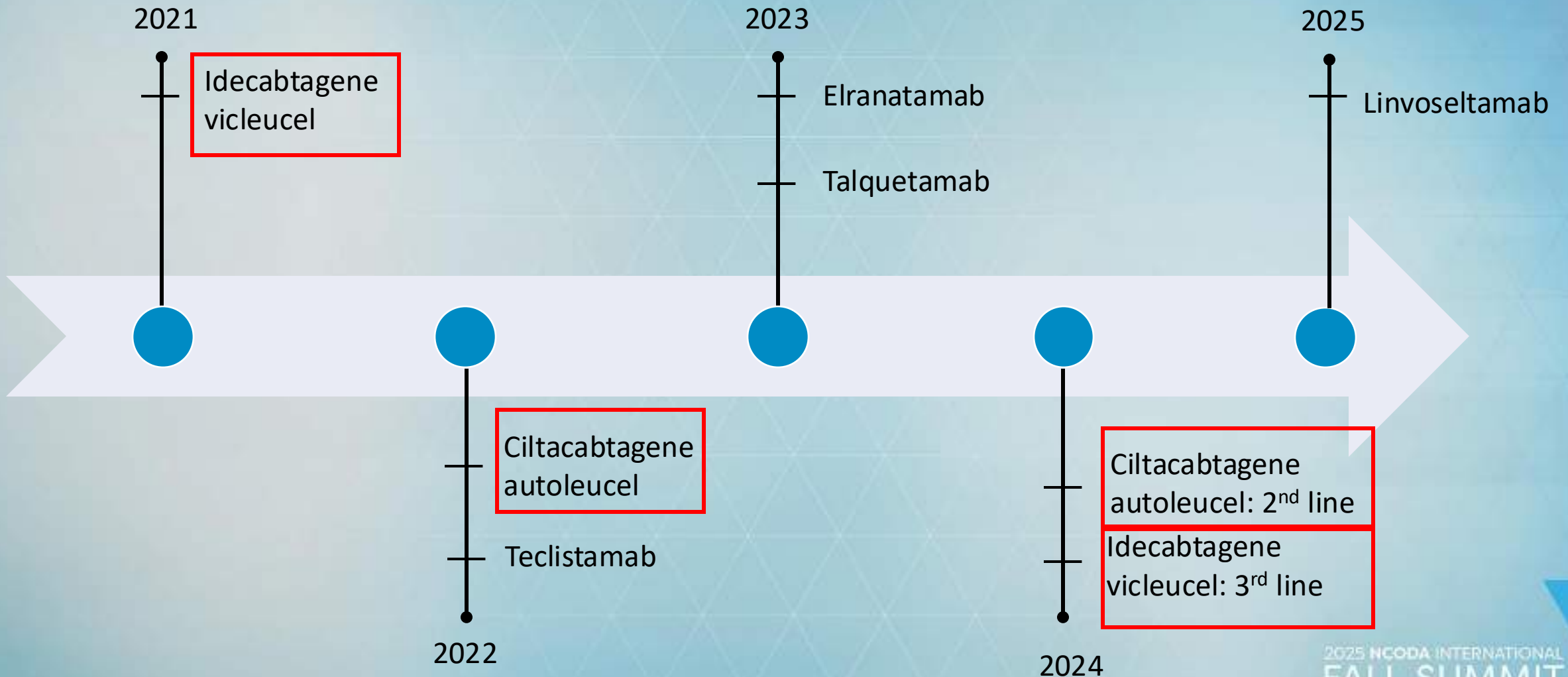
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PL is a 52-year-old male with a past medical history of hypertension and GERD. He presents in clinic with newly diagnosed multiple myeloma. ECOG PS is 0 and labs are unremarkable. He is deemed a transplant candidate. What is an appropriate 1st line regimen for PL?

- a. IsaRVd
- b. DaraRVd
- c. RVd
- d. DRd

CAR-T in Early Relapse

T-Cell Approvals in Multiple Myeloma

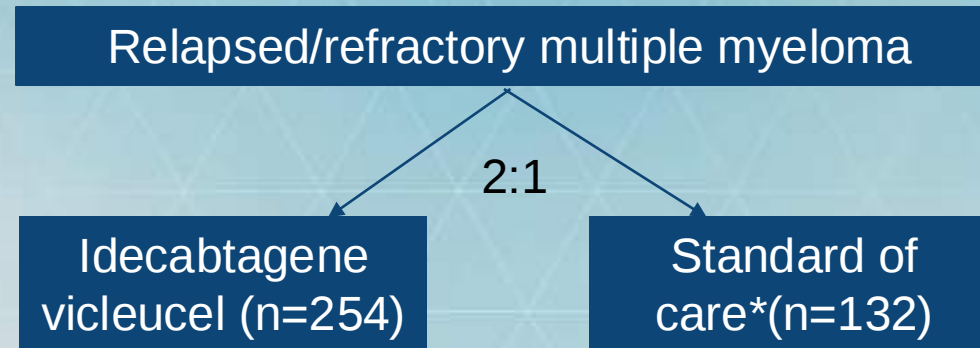


CAR-T in Late Relapse

Trial	Population	Intervention	Outcomes	Conclusions
KarMMa	Relapsed myeloma • Following ≥ 3 lines of therapy	Idecabtagene vicleucel	• ORR: 73% (95% CI: 66-81) • $\geq$ CR: 33% • mPFS: 8.8 months (95% CI: 5.6-11.6)	Ide-cel induced responses in heavily pre-treated patients with multiple myeloma
CARTITUDE-1	Relapsed myeloma • Following ≥ 3 lines of therapy	Ciltacabtagene autoleucel	• ORR: 97% (95 CI: 91.2-99.4) • sCR: 67% • 5-year PFS: 33% • mOS: 60.7 months (95% CI: 41.9-NE)	Early, deep, and durable responses were achieved in heavily pre-treated patients with cilta-cel

mPFS: median progression free survival; Ide-cel: idecabtagene vicleucel; CR: complete response; CI: confidence interval, mPFS: median progression free survival, mOS: median overall survival, NR: not reached; Cilta-cel: ciltacabtagene autoleucel, sCR: stringent complete response

KarMMa-3

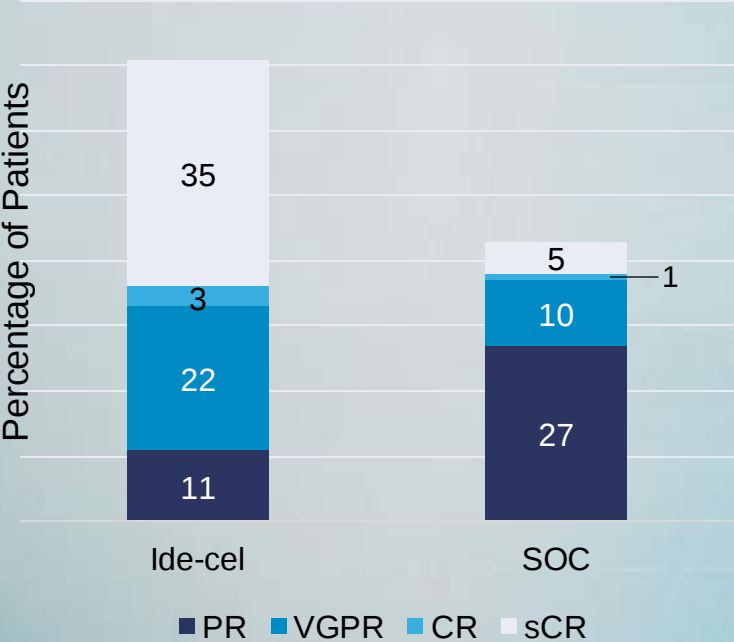


	Ide-cel (n=254)	SOC (n=132)
Median age (range), years	63 (30-81)	63 (42-83)
Extramedullary disease, n (%)	61 (24)	32 (24)
High tumor burden, n (%)	71 (28)	34 (26)
High risk cytogenetics, n (%)	107 (42)	61 (46)
Median prior lines (range)	3 (2-4)	3 (2-4)
Previous autologous HSCT, n (%)	214 (84)	114 (86)
Triple-class refractory, n (%)	164 (65)	89 (67)

*Standard of care (SOC) regimens include: daratumumab, pomalidomide, dexamethasone; daratumumab, bortezomib, dexamethasone; ixazomib, lenalidomide, dexamethasone; carfilzomib, dexamethasone; elotuzumab, pomalidomide, dexamethasone

KarMMa-3: Results

Overall Response Rates



	Ide-cel (n=254)	SOC (n=132)
Median PFS, mo (95% CI)*	13.3 (11.8-16.1)	4.4 (3.4-5.9)
6-month PFS, %	73	30
Median time to response, mo (range)	2.9 (0.5-13)	2.1 (0.9-9.4)
Median duration of response, mo (95% CI)	14.8 (12-18.6)	9.7 (5.4-16.3)

*p < 0.001; VGPR: very good partial response; sCR: stringent complete response; mo: months

Progression-free survival benefit with Ide-cel was seen across subgroups, including presence or absence of high-risk cytogenetics, high tumor burden, or triple-class refractory status

KarMMa-3: Toxicity

	Ide-cel (n=250)	SOC (n=126)
CRS, n (%)	197 (88)	0 (0)
Neutropenia, n (%)	195 (78)	55 (44)
Anemia, n (%)	165 (66)	45 (36)
Infection, n (%)	146 (58)	68 (54)
Thrombocytopenia, n (%)	136 (54)	36 (29)
Nausea, n (%)	112 (45)	34 (27)
Diarrhea, n (%)	85 (34)	30 (24)
Neurotoxic event, n (%)	34 (15)	0 (0)

CRS: cytokine release syndrome

Median time to onset of CRS: 1 day (1-14 days)

Median duration of CRS: 3.5 days (1-51 days)

72% of patients receiving Ide-cel required tocilizumab for CRS

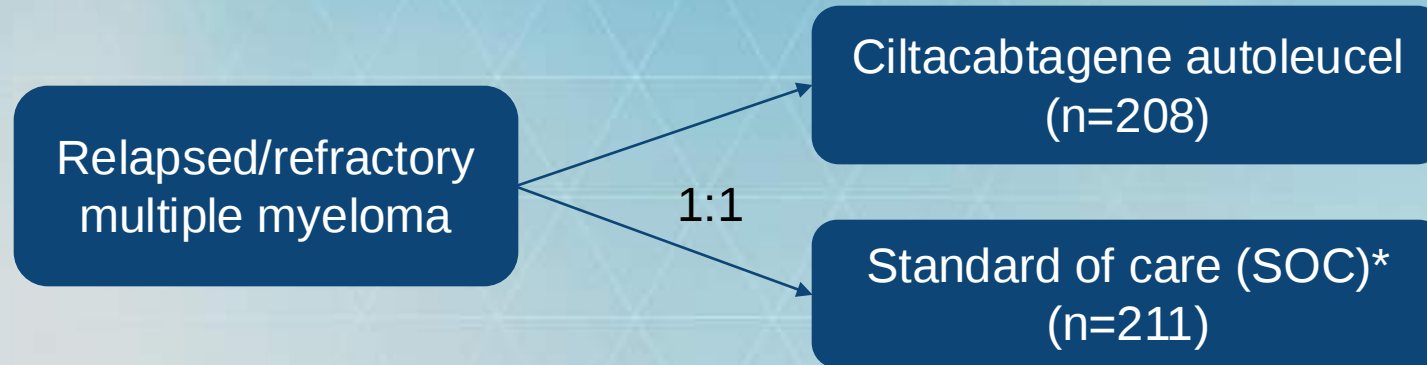
28% of patients receiving Ide-cel required corticosteroids for CRS

Median time to onset of neurotoxic event: 3 days (1-317 days)

Median duration of neurotoxic event: 2 days (1-37 days)

Ide-cel resulted in significantly longer PFS versus SOC regimens. These results were observed across subgroups and may benefit difficult to treat patients

CARTITUDE-4

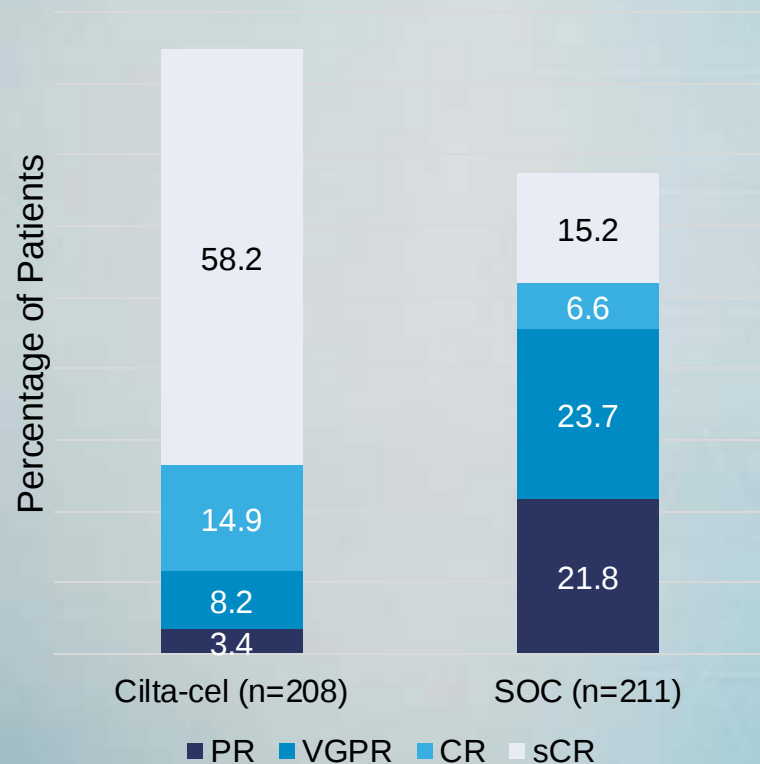


	Cilta-cel (n=208)	SOC (n=211)
Median age (range), years	61.5 (27-78)	61 (35-80)
Soft tissue plasmacytomas, n (%)	44 (21.2)	35 (16.6)
Bone marrow plasma cells > 60%, n (%)	42 (20.4)	43 (20.7)
High-risk cytogenetics, n (%)	123 (59.4)	132 (51)
Previous lines of therapy, n (%)		
1	68 (32.7)	68 (32.2)
2	83 (39.9)	87 (41.2)
3	57 (27.4)	56 (26.2)
Triple-class refractory, n (%)	30 (14.4)	33 (15.6)

*SOC regimens include: pomalidomide, bortezomib, dexamethasone; daratumumab, pomalidomide, dexamethasone

CARTITUDE-4: Results

Overall Response Rates



	Cilta-cel (n=208)	SOC (n=211)
Median time to response, mo (range)	2.1 (0.9-11.1)	1.2 (0.6-10.7)
Median time to best response, mo (range)	6.4 (1.1-18.6)	3.1 (0.8-20.6)
Minimal residual disease negative, n (%)	126 (60.6)	33 (15.6)
30-month PFS, %*	59.4	25.7
30-month OS, %	76.4	63.8

*p < 0.0001; VGPR: very good partial response; sCR: stringent complete response; mo: months; NR: not reached

PFS benefit with cilta-cel was seen across subgroups, including presence of high-risk cytogenetics and prior lines of therapy

CARTITUDE-4: Toxicity

	Cilta-cel (n=208)	SOC (n=126)
Neutropenia, n (%)	187 (89.9)	177 (85.1)
CRS, n (%)	134 (76.1)	0 (0)
Infection, n (%)	129 (62)	148 (71.2)
Anemia, n (%)	113 (54.3)	54 (26)
Thrombocytopenia, n (%)	113 (54.3)	65 (31.2)
Nausea, n (%)	101 (48.6)	38 (18.3)
Hypogammaglobulinemia, n (%)	88 (42.3)	13 (6.2)

Median time to CRS
onset: 8 days
(1-23 days)

Median duration of
CRS: 3 days
(1-17 days)

CRS: cytokine release syndrome

Cilta-cel had a favorable risk-benefit profile compared to standard of care. Due to the progression free survival benefit, cilta-cel is an option for patients on first relapse

CAR-T in Earlier Lines

	KarMMa-3	CARTITUDE-4
Median age, years (range)	63 (30-81)	61.5 (27-78)
High risk cytogenetics, n (%)	107 (42)	123 (59.4)
ORR, n (%)	181 (71)	176 (84.6)
PFS, months, (95% CI)	13.3 (11.8-16.1) (18.6-month follow-up)	NR (15.9-month follow-up)
Any grade adverse events, n (%)		
• Cytokine release syndrome	197 (88)	134 (76.1)
• Neutropenia	146 (58)	187 (89.9)
• Thrombocytopenia	136 (54)	113 (54.3)
• Infection	146 (58)	129 (62)
• Neurotoxic events	34 (15)	36 (20.5)

ORR: overall response rate, NR: not reached

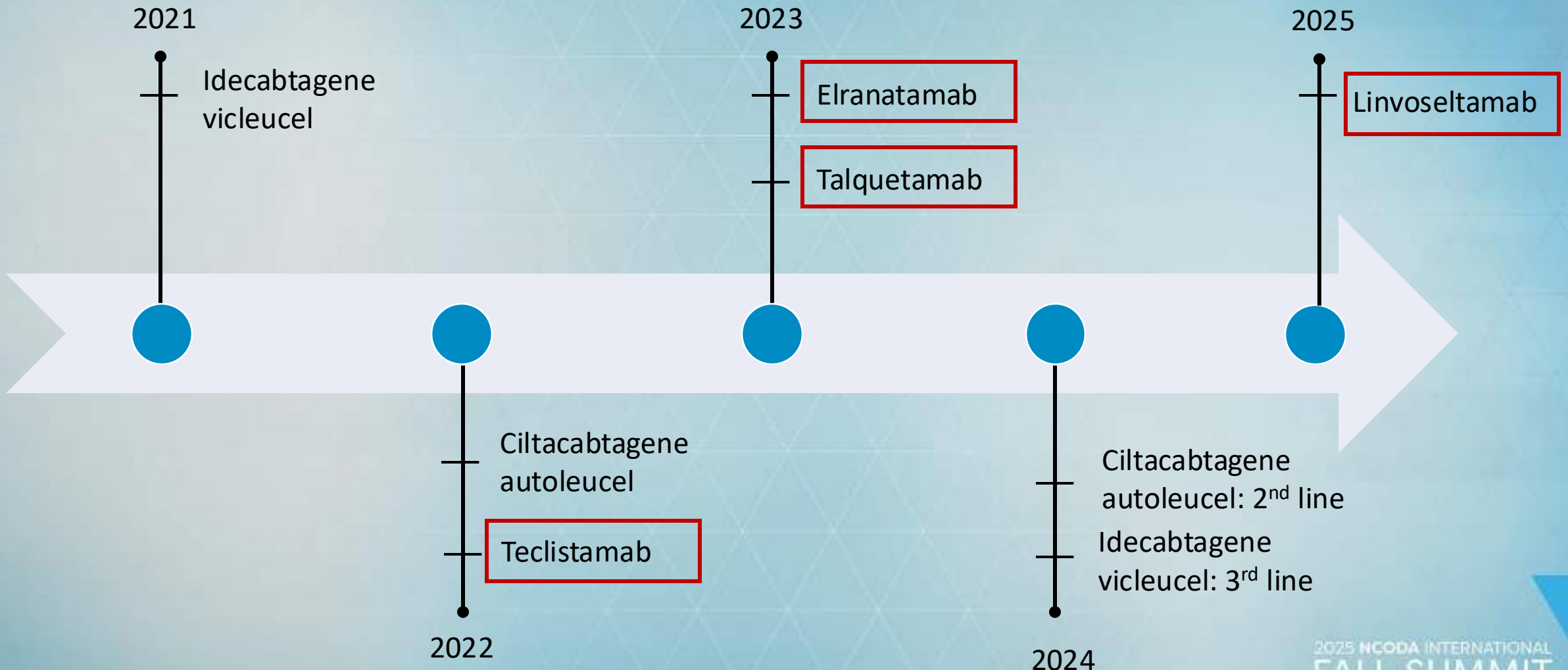
CAR-T in Relapsed/Refractory Myeloma

- CAR-T in earlier lines of therapy provides deep and durable remissions compared to standard of care chemotherapy
- May be an appropriate option in certain patients depending on performance and disease status
- No new safety signals identified when used in early relapse



Bispecific T-Cell Engagers in Relapsed Myeloma

T-Cell Approvals in Multiple Myeloma



Bispecific T-Cell Engagers - Targets

BCMA

- Teclistamab
- Elranatamab
- Linvoseltamab

GPRC5D

- Talquetamab
- Forimtamig*

FcRH5

- Cevostamab*

BCMA Bispecific T-Cell Engagers

Bispecific T-Cell Engager	Indication	Route	Maintenance Dosing	Hospitalization?	REMS
Teclistamab	Relapsed MM after 4 or more lines of therapy	SQ	1.5 mg/kg SQ once weekly x 6 months* 1.5 mg/kg every 2 weeks	Yes – 48 hours after each step-up dose and first treatment dose	Yes
Elranatamab		SQ	76 mg SQ once weekly x 6 months 76 mg SQ every 2 weeks x 6 months* 76 mg SQ once monthly*	Yes – 48 hours after step-up dose 1 and 24 hours after step-up dose 2	Yes
Linvoseltamab		IV	200 mg IV once weekly weeks 4-13 200 mg IV every 2 weeks week 14-24 200 mg IV once monthly*	Yes – 24 hours after step-up dose 1 and 2	Yes

*In responders only; MM: multiple myeloma, SQ: subcutaneous, IV: intravenous

MAJESTEC-1

Relapsed Multiple Myeloma

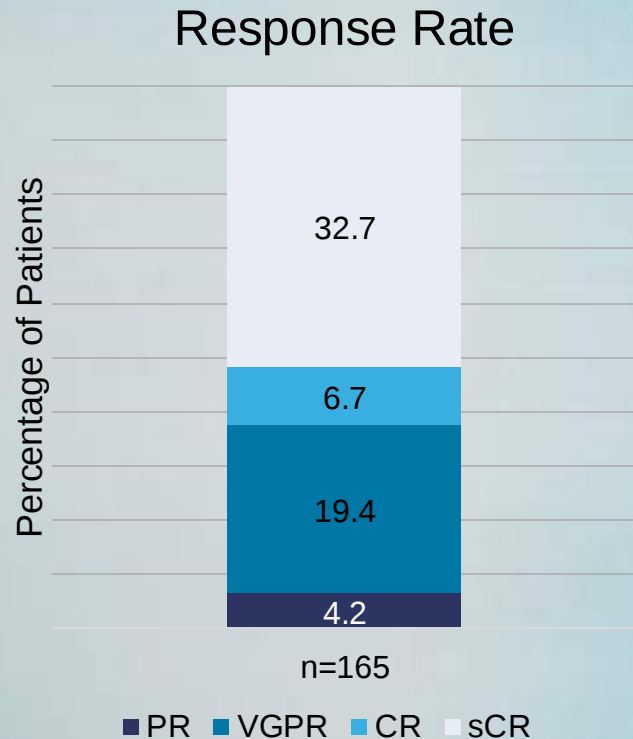
- ≥ 18 years
- 3 prior lines of therapy
- No prior BCMA exposure

Teclistamab

- Target dose: 1.5 mg/kg SQ once weekly

Patient Characteristics	n=165
Median age (range), years	64 (33-84)
Soft tissue plasmacytomas, n (%)	28 (17)
High-risk cytogenetics, n / total n (%)	38/148 (15.5)
Median number of prior lines, n (range)	5 (2-14)
Refractory Status, n (%)	128 (77.6)
• Triple-class	50 (30.3)
• Penta-drug	

MAJESTEC-1 - Results



	n=165
VGPR or better, n (%)	97 (58.8)
Median PFS, months (95% CI)	11.3 (8.8-17.1)
Median OS, months (95% CI)	18.3 (15.1-NE)
Adverse Events	
Any Adverse Event, n (%)	165 (100)
Cytokine Release Syndrome, n (%)	119 (72.1)
Neutropenia, n (%)	117 (70.9)
Thrombocytopenia, n (%)	66 (40)
Pneumonia, n (%)	30 (18.2)
Neurotoxic Events, n (%)	24 (14.5)

Teclistamab provided deep and durable responses in a heavily pre-treated patient population

MagnetisMM-3

Relapsed Multiple Myeloma

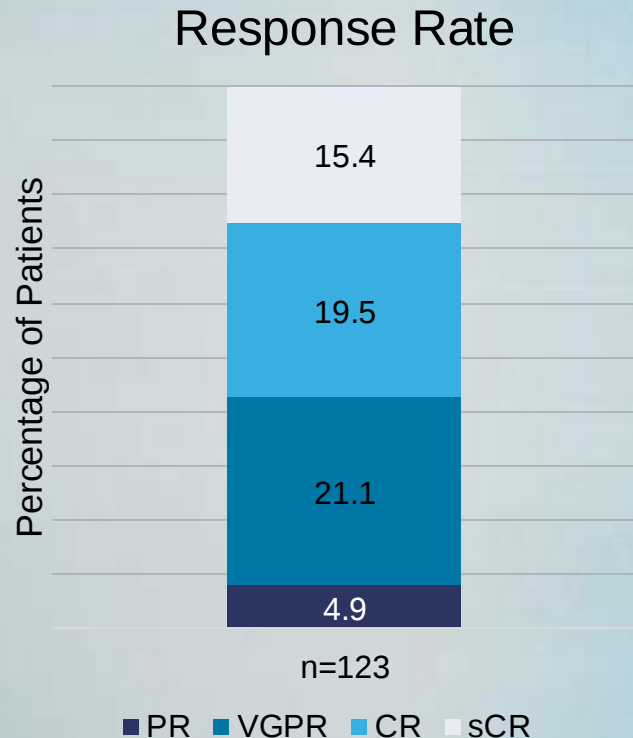
- ≥ 18 years
- 3 prior lines of therapy
- No prior BCMA exposure

Elranatamab

- Target dose: 76 mg SQ once weekly x6 cycles followed by 76 mg SQ every 2 weeks

Patient Characteristics	n=123
Median age (range), years	68 (36-89)
Soft tissue plasmacytomas, n (%)	28 (17)
High-risk cytogenetics, n (%)	31 (25.2)
Median number of prior lines, n (range)	5 (2-22)
Refractory Status, n (%)	
• Triple-class	119 (96.7)
• Penta-drug	52 (42.3)

MagnetisMM-3



	n=123
ORR, % (95% CI)	61 (51.8-69.6)
VGPR or better, n (%)	69 (56.1)
Median PFS, months (95% CI)	NE (9.9-NE)
Median OS, months (95% CI)	NE (13.9-NE)
Adverse Events	
Any Adverse Event, n (%)	123 (100)
Cytokine Release Syndrome, n (%)	71 (57.7)
Neutropenia, n (%)	60 (48.8)
Thrombocytopenia, n (%)	38 (30.9)
Infection, n (%)	86 (69.9)
ICANS, n (%)	4 (3.4)

Elranatamab demonstrated durable responses that continued to deepen after the transition to biweekly dosing

LINKER MM-1

Relapsed Multiple Myeloma

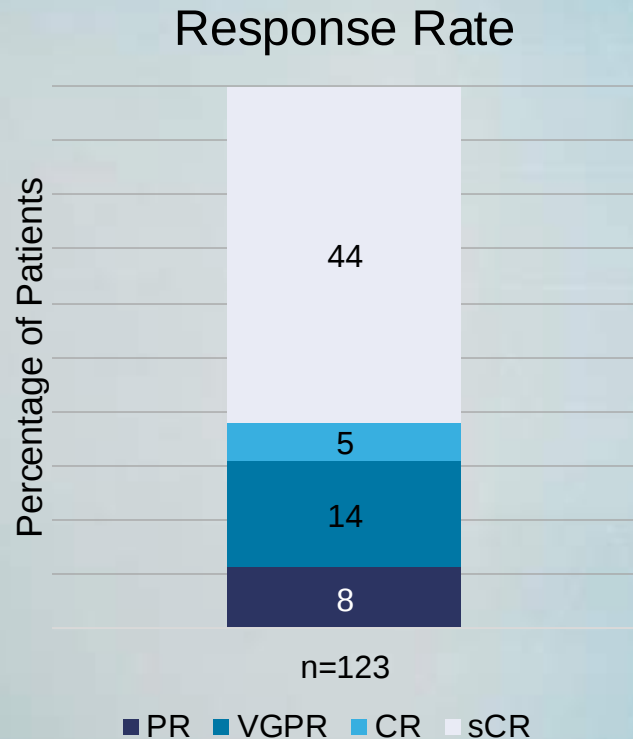
- ≥ 18 years
- 3 prior lines of therapy
- No prior BCMA immunotherapies

Linvoseltamab

- Target dose: 50 mg or 200 mg IV once weekly x 12 weeks followed by 200 mg IV every other week x 12 weeks followed by 200 mg IV once monthly

Patient Characteristics	200 mg (n=117)
Median age (range), years	70 (37-91)
Soft tissue plasmacytomas, n (%)	19 (16.2)
High-risk cytogenetics, n (%)	46 (39.3)
Median number of prior lines, n (range)	5 (2-16)
Refractory Status, n (%)	
• Triple-class	96 (82.1)
• Penta-drug	33 (28.2)

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	n=117
ORR, %	70.9
VGPR or better, n (%)	74 (63.2)
Median PFS, months (95% CI)	NR (17.3-NE)
Median OS, months (95% CI)	NR (31.4-NE)
Adverse Events	
Any Adverse Event, n (%)	117 (100)
Cytokine Release Syndrome, n (%)	54 (46.2)
Anemia, n (%)	45 (38.5)
Thrombocytopenia, n (%)	38 (30.9)
Infection, n (%)	87 (74.4)
ICANS, n (%)	9 (7.7)

Linvoseltamab offers clinical benefit in a high risk, heavily pre-treated population and increases patient convenience with less frequent dosing

BCMA Bispecific T-Cell Engagers

Bispecific T-cell Engager	ORR	≥ VGPR	PFS	CRS Rate		ICANS Rate	
				All Grades	≥ Grade 3	All Grades	≥ Grade 3
Teclistamab	63%	58.8%	11.3 mo (14.1 mo follow up)	72.1%	0.6%	14.5%	0.6%
Elranatamab	61%	56.1%	NR (14.7 mo follow up)	71%	0	3.4%	0
Linvoseltamab	70.9%	63.2%	NR (14.3 mo follow up)	46.2%	0.9%	7.7%	2.6%

QUESTION 2

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PL completed induction with Dara-RVd and completed as autologous stem cell transplant. He is currently on daratumumab + lenalidomide maintenance. During his 1-year work up, his bone marrow biopsy showed 30% monoclonal plasma cells.

What is an appropriate 2nd line therapy?

- a. Teclistamab
- b. Ide-cel
- c. Cilta-cel
- d. DRd

Sequencing BCMA Agents

- BCMA-targeting agents have changed the management of relapsed/refractory multiple myeloma
- Several BCMA-targeting agents available including: cilta-cel, ide-cel, teclistamab, elranatamab, linvoseltamab, belantamab (via clinical trial or compassionate use)
- Concerns with T-cell exhaustion and development of resistance are growing concerns with repeated BCMA-targeting agents
- With access to several agents, optimal sequencing while important, is still yet to be determined



CARTITUDE-2 Cohort C

Evaluation of cilta-cel in BCMA-exposed relapsed/refractory myeloma

	All (n=20)	Prior ADC (n=13)	Prior BsAb (n=7)
Median age (range), years	62.5 (44-81)	66 (44-81)	60 (49-71)
High-risk cytogenetics, n (%)	3 (15)	2 (15.4)	1 (14.3)
Median prior lines, n (range)	8 (4-13)	8 (4-13)	8 (6-12)
Penta drug refractory, n (%)	11 (55)	7 (53.8)	4 (57.1)
Anti-BCMA refractory, n (%)	16 (80)	11 (84.6)	5 (71.4)

Time from last anti-BCMA to cilta-cel infusion: 62-944 days

Duration of prior anti-BCMA: 1-527 days

CARTITUDE-2 Cohort C - Results

	All (n=20)	Prior ADC (n=13)	Prior BsAb (n=7)
ORR, % (95% CI)	60 (36.1-80.9)	61.5 (43.6-86.1)	57.1 (18.4-90.1)
MRD (-) 10-5, %	35	39	28
Median DOR, months (95% CI)	11.5 (7.9-NE)	11.5 (7.9-NE)	8.2 (4.4-NE)
Median PFS, months (95% CI)	9.1 (1.5-NE)	9.5 (0.99-NE)	5.3 (0.6-NE)

Patients more likely to respond if:

- Shorter duration of prior BCMA agent
- Longer time between cilta-cel and prior BCMA agent

Results suggest response after prior BCMA studies, larger prospective trials are needed for a better understanding of sequencing

No additional safety concerns identified

Response with Bispecific T-cell Engagers After Prior BCMA Agents

MajesTEC-1 Teclistamab

- 40 patients with prior BCMA
- ORR 52.5%
 - ADC: 55.2%
 - CAR-T: 53.3%
- 30% with CR or better

MagnetisMM Elranatamab

- 86 patients with prior BCMA
- ORR = 45.3%
 - ADC: 41.4%
 - CAR-T: 52.8%
- 17.4% achieved CR or better

Linker MM-1 Linvoseltamab

- 10 patients with prior BCMA ADC
- ORR 70%

Guidance for Sequencing

- Growing area of research, but available studies have small cohorts of patients
- Although a response may occur, overall response rates are lower than seen in BCMA-naïve patients
- A longer time between BCMA targeting agents may increase the chance of response
- Sequencing in the real-world may be depending on patient factors and availability of treatments



Future Directions

- Optimization of CAR-T therapies – dual targeting, allogeneic CAR-T products, new targets
- Combination therapies with bispecific T-cell engagers and use in earlier lines of therapy
- Emergence of MRD (-) guided treatment decisions
- Trispecific antibodies currently under investigation
- Increasing access to novel therapies in the community



QUESTION 3

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RT is a 71-year-old female with relapsed/refractory multiple myeloma. She has a past medical history of treatment-related peripheral neuropathy, hypothyroidism, and hypertension. She has previously received Dara-RVd, HSCT, Daratumumab/lenalidomide maintenance, KPd, DPd, and most recently cilta-cel (currently day +180). She is now progressing.

What would be an appropriate next line of therapy?

- a. Elranatamab
- b. Talquetamab
- c. CyBorD
- d. Belantamab
- e. a or b

- Landscape of multiple myeloma treatment is rapidly evolving
- Quad therapies have become the main stay in treatment of transplant-eligible and –ineligible newly diagnosed multiple myeloma
- The use of t-cell redirecting therapies are highly active in multiple myeloma and are continuing to be investigation in combination and in earlier lines of therapy
- BCMA-targeting agents are effective in a heavily pre-treated patient population, but optimal sequencing is still under investigation

Myeloma: From Current to Cutting Edge

Jordan Snyder, PharmD, BCOP

Clinical Hematology Pharmacist

University of Kansas Health System