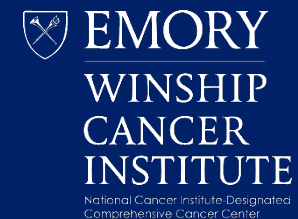




MY EVOLVING MANAGEMENT OF TRANSPLANT –ELIGIBLE AND –INELIGIBLE PATIENTS WITH NDMM

Ajay K. Nooka, MD MPH
Professor, Department of Hematology and Medical Oncology
Director, Myeloma Program
Associate Director of Clinical Research
Winship Cancer Institute, Emory University School of Medicine



National Cancer Institute-Designated
Comprehensive Cancer Center



CONFLICT OF INTEREST DISCLOSURE

I hereby declare the following potential conflicts of interest concerning my presentation:

Consultancy and Honoraria: AstraZeneca, Blue Earth Diagnostics, Celectar biosciences, GlaxoSmithKline, Janssen, KITE therapeutics, ONK therapeutics, OPNA, Pfizer, Perceptive informatics LLC, Premier Research Sanofi and Sebia

Research Funding (to institution): Aduro Biotech, Amgen, Arch Oncology, Bristol Myers Squibb, Celectis, Celectar, Genentech, GlaxoSmithKline, Janssen, OPNA, Karyopharm, Kite Pharma, Merck, Pfizer, Skyline diagnostics and Takeda

Discussion of off-label drug use: None

Transplant-eligible

Transplant-ineligible

Bortezomib

- PERSEUS
- GMMG-HD7

- CEPHEUS
- IMROZ
- BENEFIT

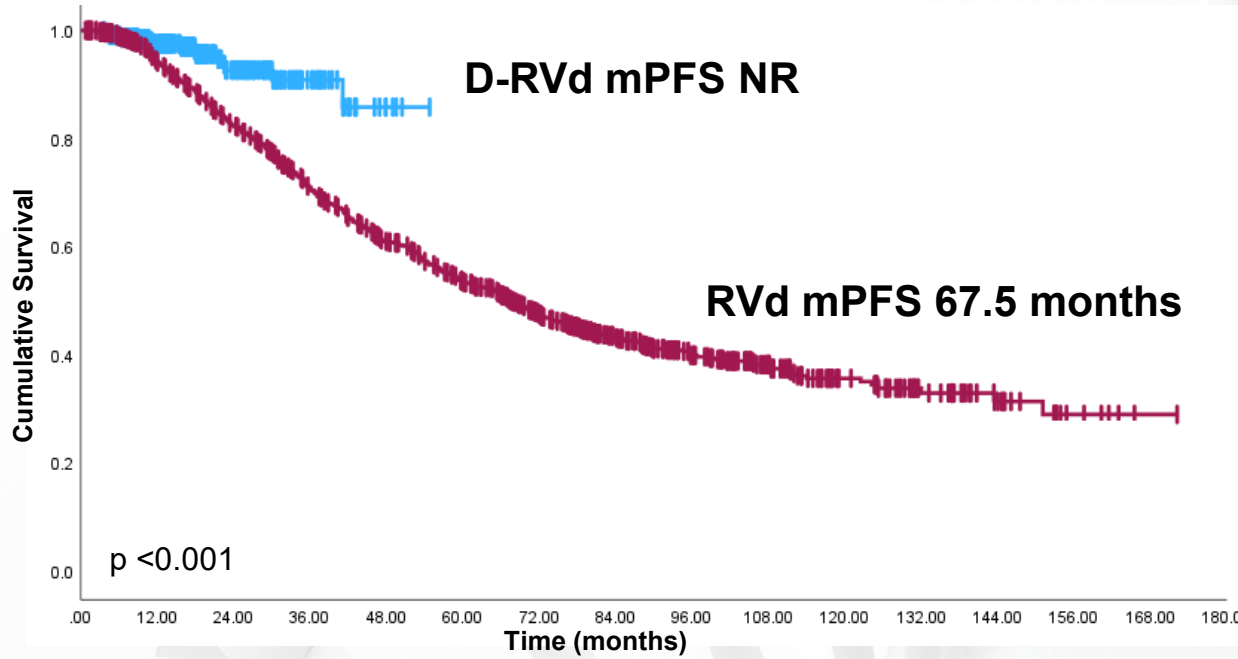
Carfilzomib

- IsKia EMN24

- ADVANCE
- GMMG-CONCEPT

SURVIVAL OUTCOMES: EMORY COHORT

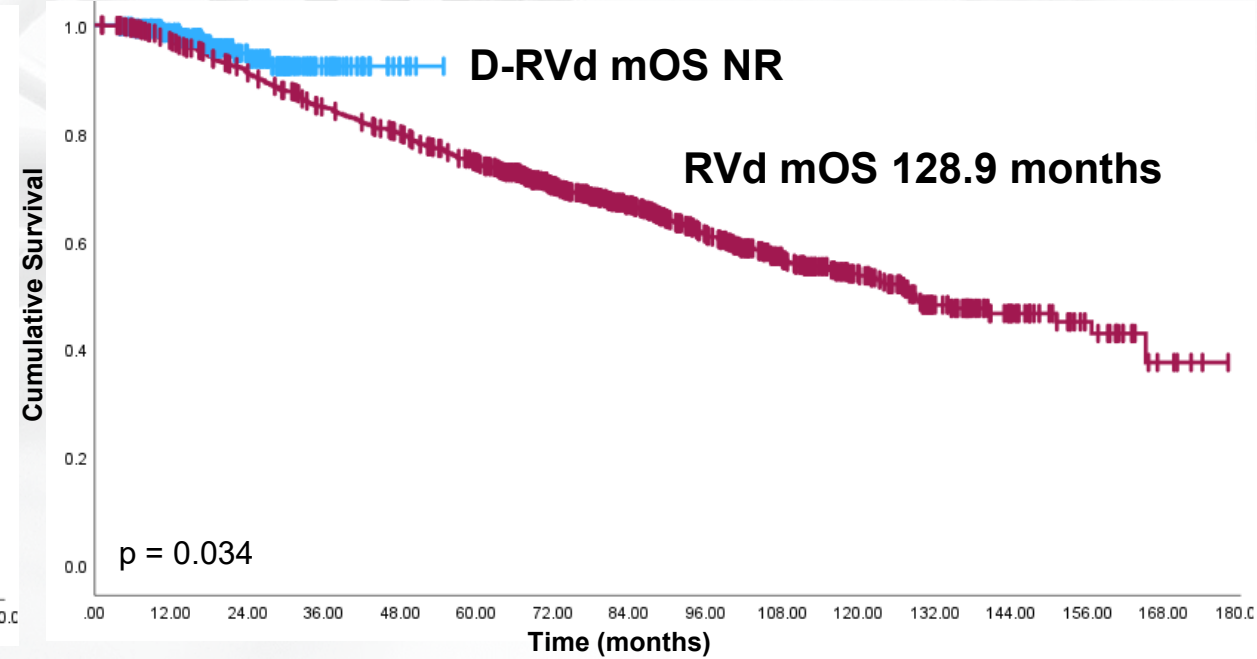
Progression Free Survival



1-year PFS, D-RVd vs RVd: 98% vs 93%
2-year PFS, D-RVd vs RVd: 93% vs 82%

Median follow up DRVd: 19.1 months, RVd: 87 months

Overall Survival

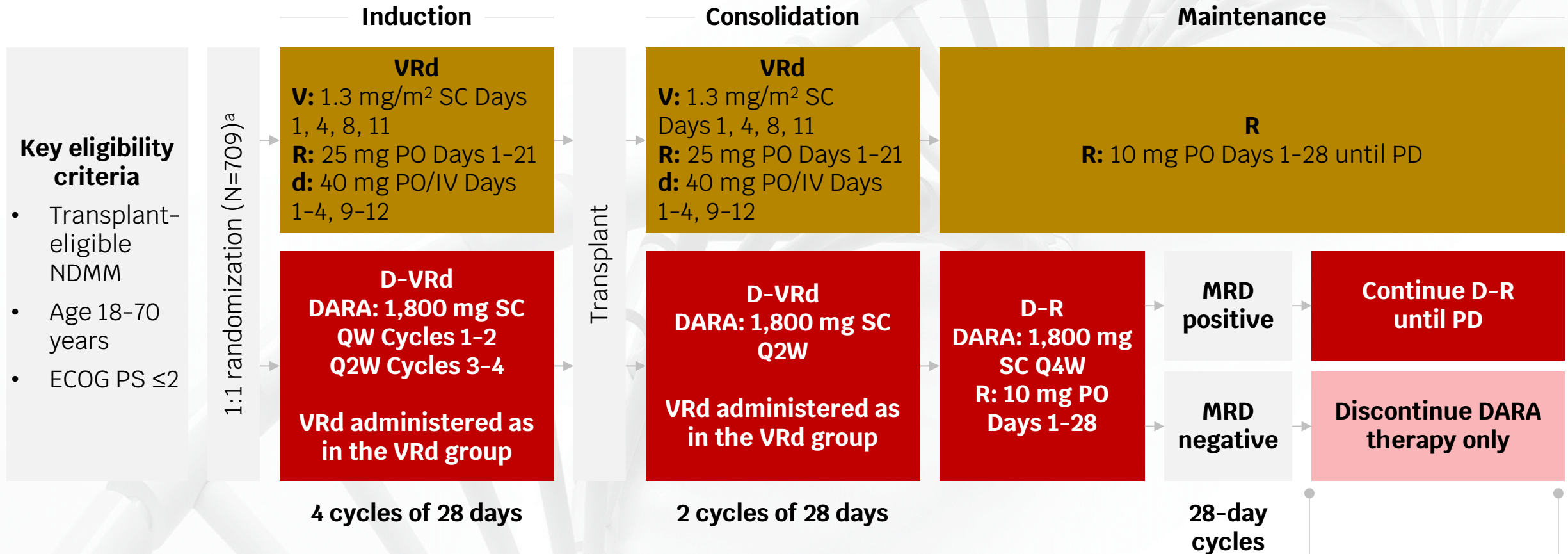


1-year OS, D-RVd vs RVd: 99% vs 97%
2-year OS, D-RVd vs RVd: 94% vs 91%

Median follow up DRVd: 19.1 months, RVD: 96 months

Joseph NS, et al. Quadruplet therapy for newly diagnosed myeloma: comparative analysis of sequential cohorts with triplet therapy lenalidomide, bortezomib and dexamethasone (RVd) versus daratumumab with RVD (DRVd) in transplant-eligible patients. Blood Cancer J. 2024 Sep 13;14(1):159.

NDMM- TRANSPLANT ELIGIBLE: PHASE III PERSEUS STUDY DESIGN



Primary endpoint: PFS^c

Key secondary endpoints: Overall \geq CR rate,^c overall MRD-negativity rate,^d OS

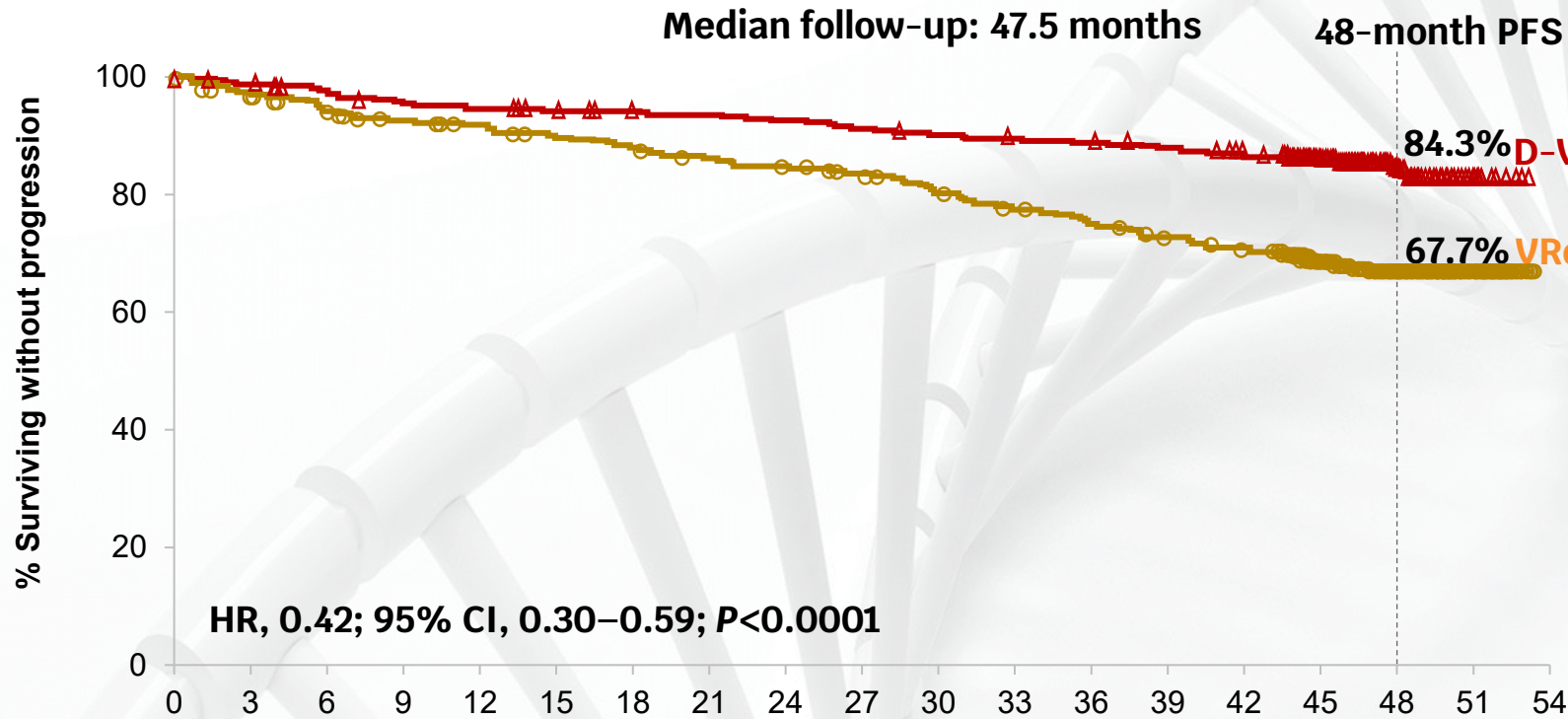
Discontinue DARA therapy only after ≥ 24 months of D-R maintenance for patients with \geq CR and 12 months of sustained MRD negativity

Restart DARA therapy upon confirmed loss of CR without PD or recurrence of MRD

Sonneveld et. al. Late-breaking Abstracts Session, ASH 2023. Accessed from: <https://ash.confex.com/ash/2023/webprogram/Paper191911.html>

PERSEUS PHASE III RESULTS

PFS

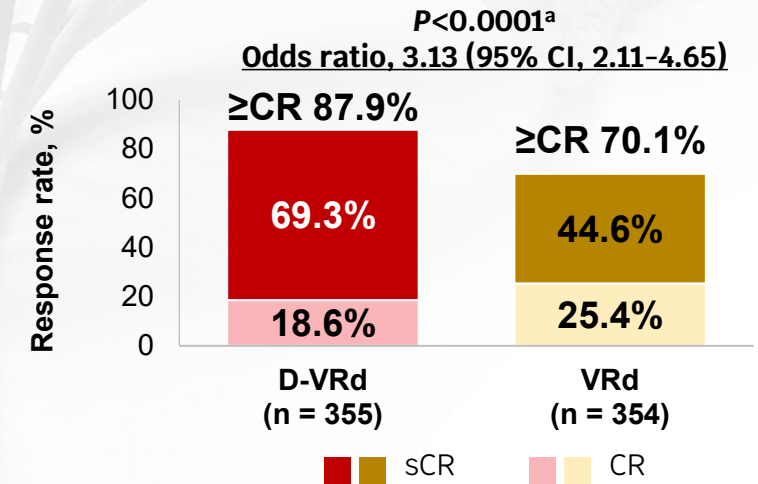


No. at Risk

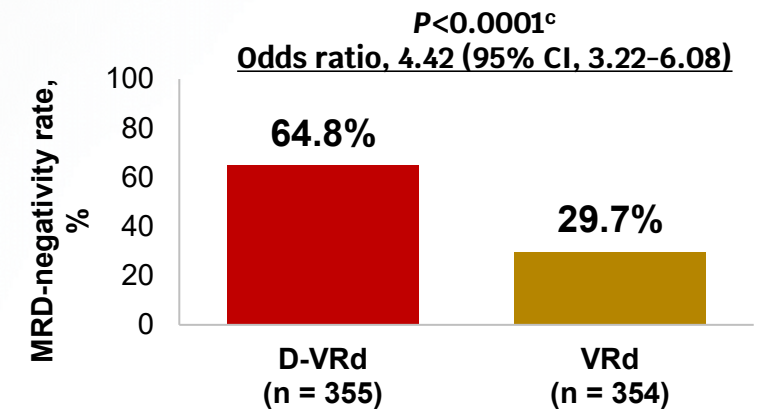
	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
VRd	354	335	321	311	304	297	291	283	278	270	258	247	238	228	219	175	67	13	0
D-VRd	355	345	335	329	327	322	318	316	313	309	305	302	299	295	286	226	90	11	0

58% reduction in the risk of progression or death with D-VRd

Overall ≥ CR Rates

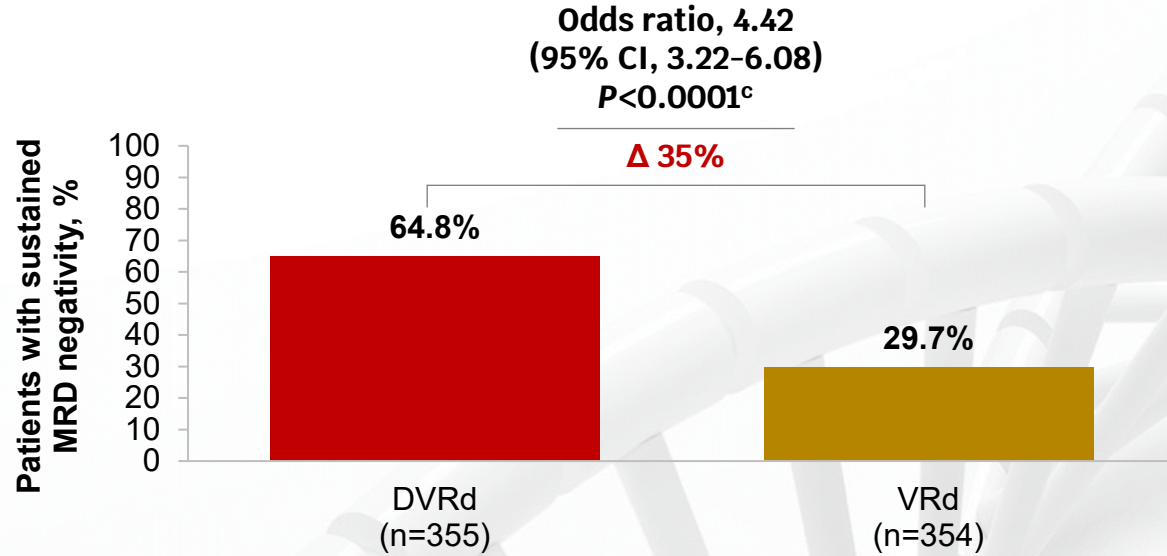


Sustained MRD negativity (10⁻⁵) ≥ 12 mos

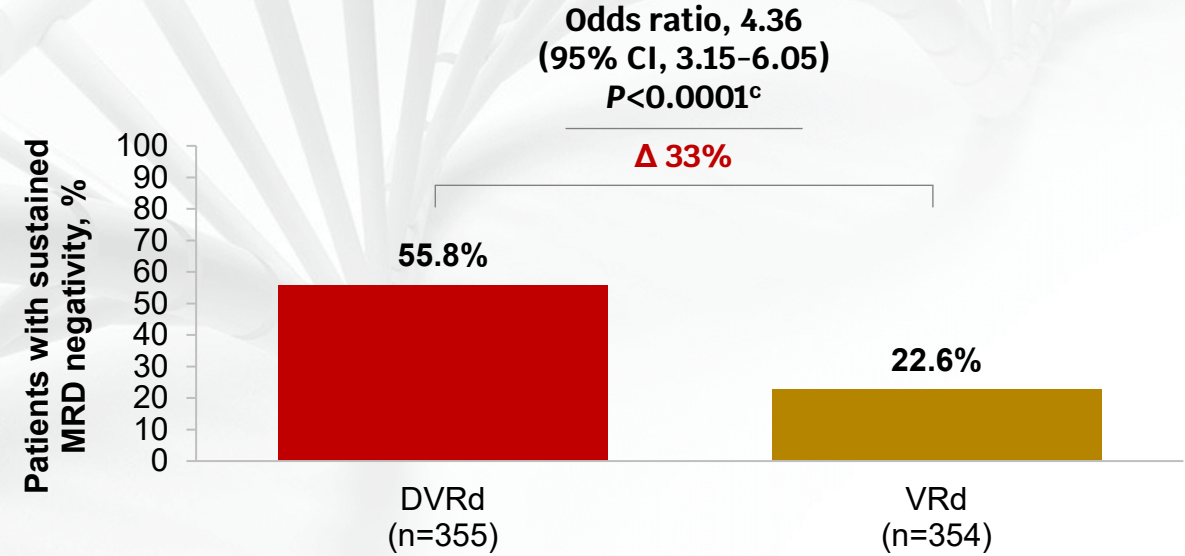


PERSEUS: SUSTAINED MRD-NEGATIVITY (10^{-5}) \geq CR RATES

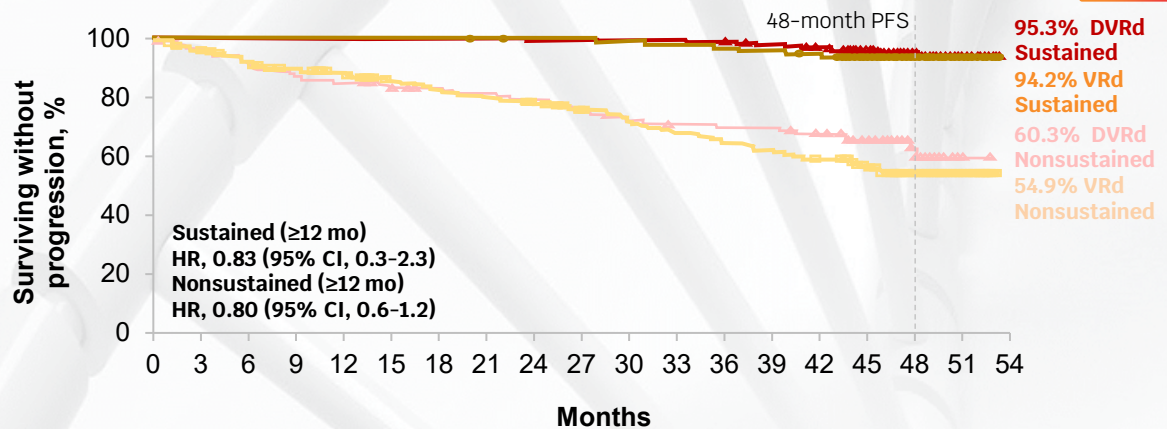
Sustained MRD-negativity^a (10^{-5}) \geq CR rate \geq 12 months^b



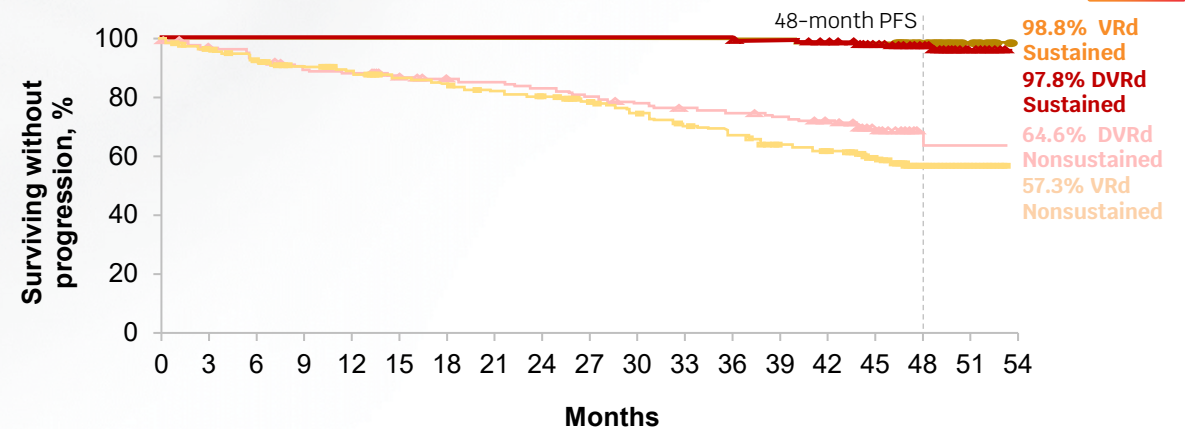
Sustained MRD-negativity^a (10^{-5}) \geq CR rate \geq 24 months^d



PFS by sustained MRD-negativity (10^{-5}) \geq CR status \geq 12 months

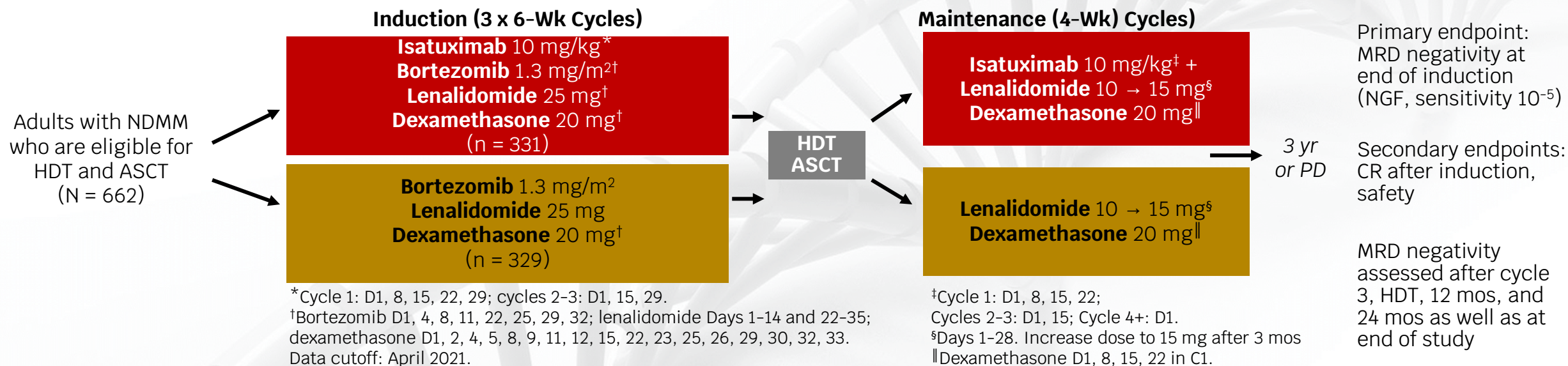


PFS by sustained MRD-negativity (10^{-5}) \geq CR status \geq 24 months

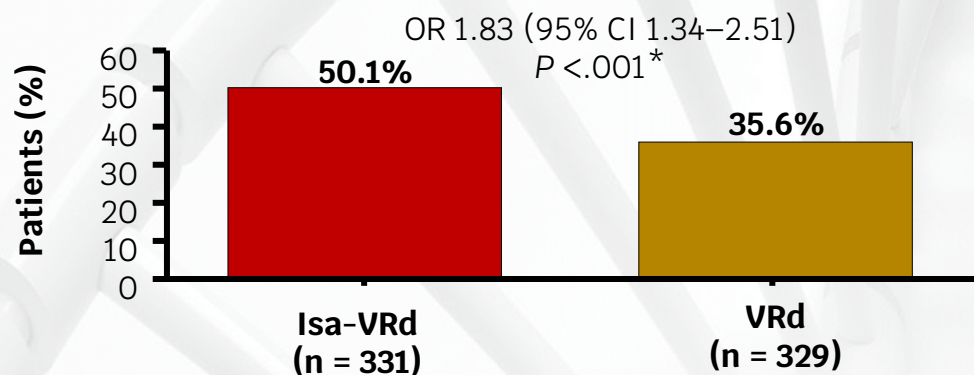


NDMM- TRANSPLANT ELIGIBLE: GMMG-HD7: TRIAL SUMMARY

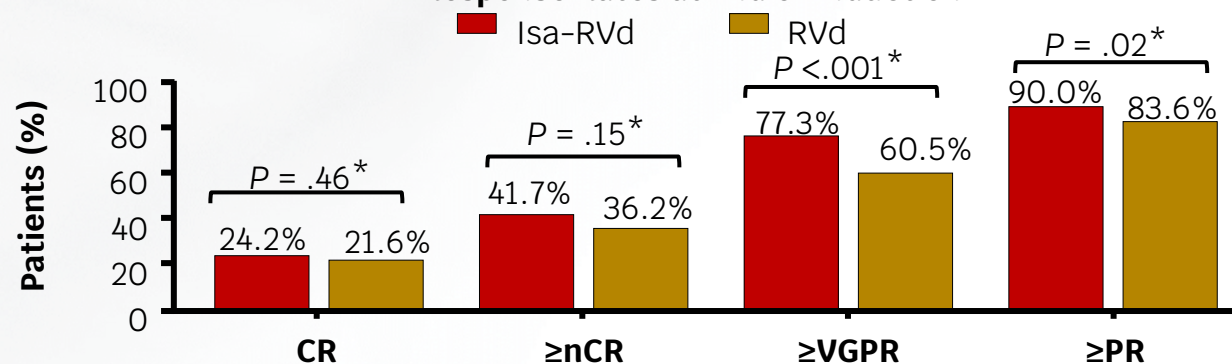
- Open-label, randomized, multicenter phase III trial



Patients with MRD Negativity at End of Induction



Response Rates at End of Induction

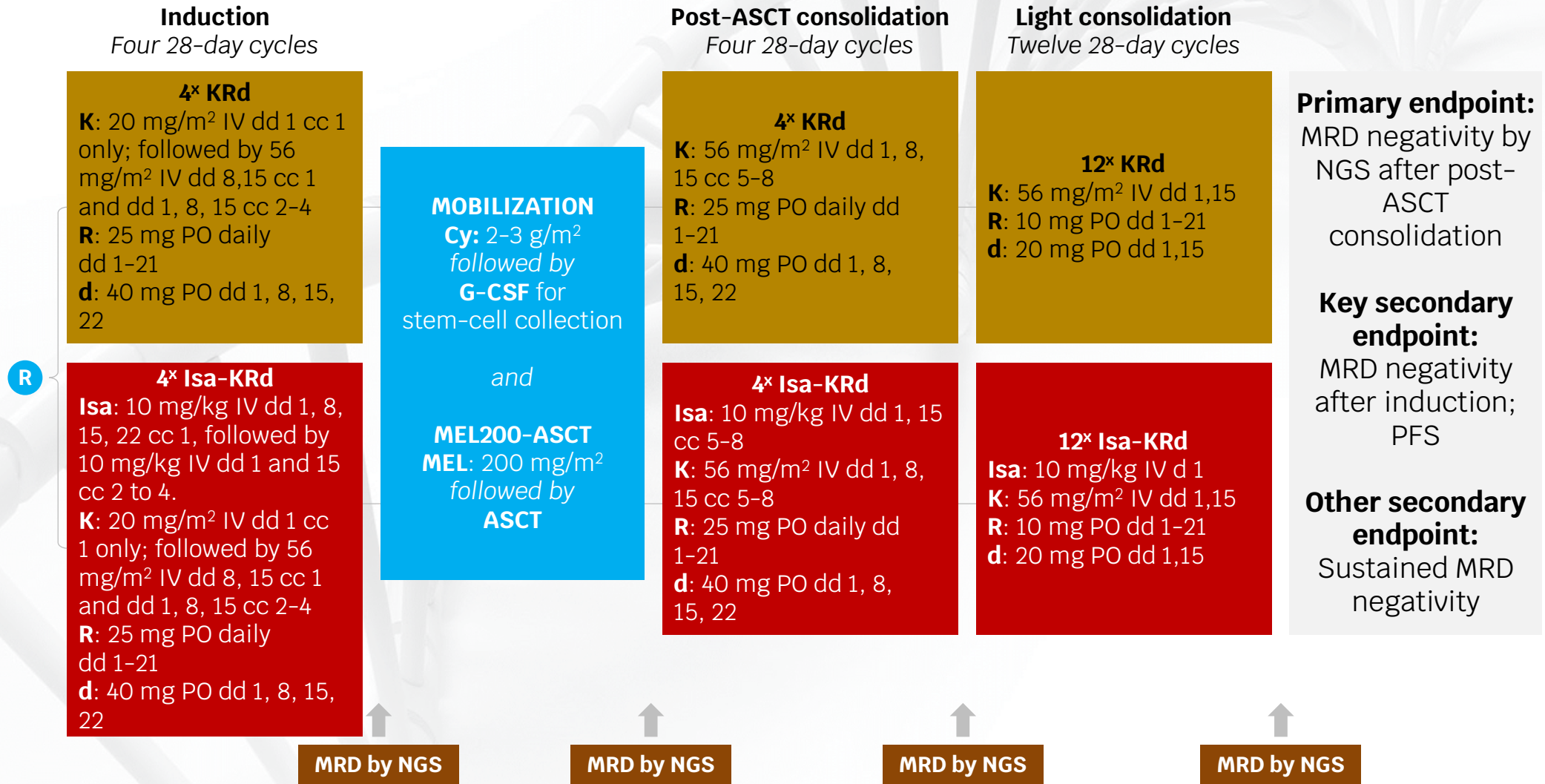


Goldschmidt. ASH 2021. Abstr 463.

NDMM-TRANSPLANT ELIGIBLE: PHASE III ISKIA EMN24 STUDY DESIGN

42 active sites; enrollment: Oct 7, 2020 – Nov 15, 2021

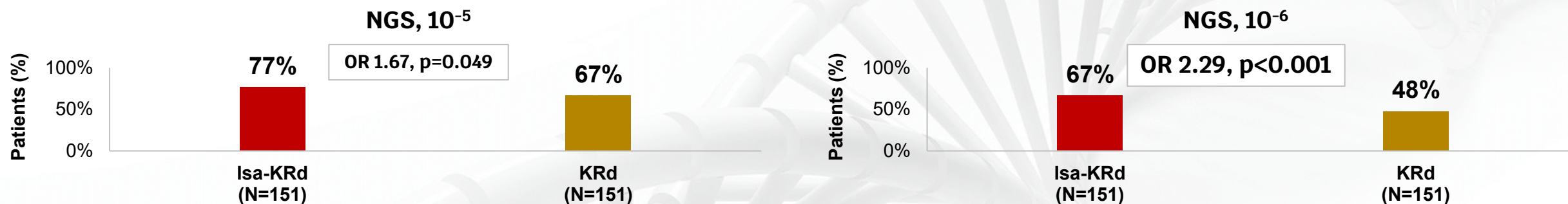
- Key eligibility criteria:**
- TE NDMM patients aged <70 years
- Stratification:**
- Centralized FISH (Standard risk/missing vs. high risk defined as del(17p) and/or t(4;14) and/or t(14;16);
 - ISS (I vs. II and III)



Reformatted from Franchesca Gay, MD. ASH 2023 Oral Presentation.

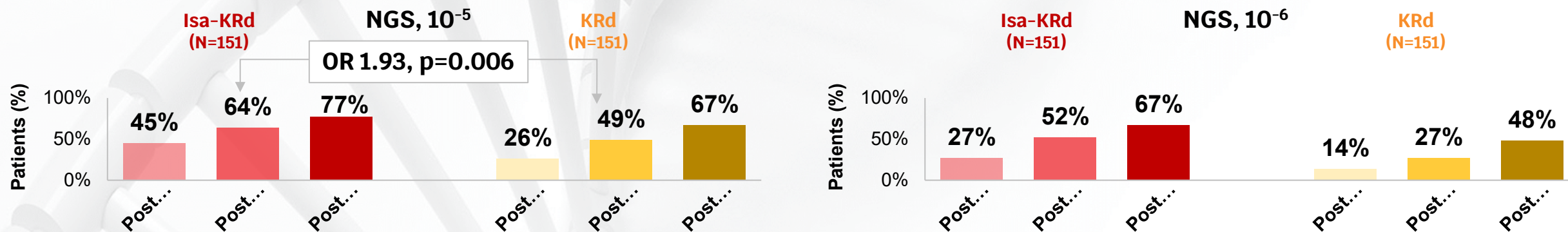
ISKIA: PRIMARY ENDPOINT

Post Consolidation MRD negativity (ITT)



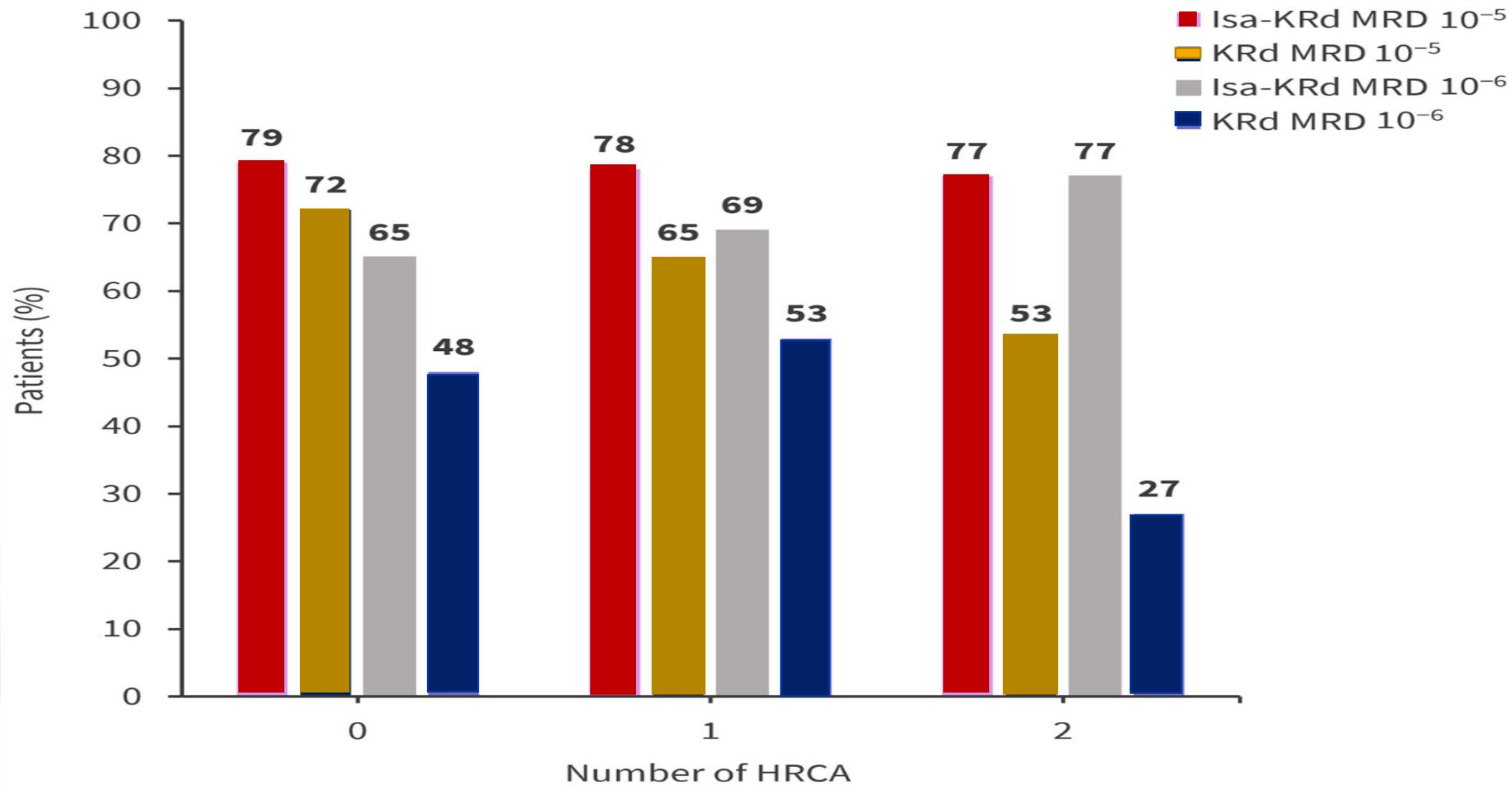
≥VGPR after consolidation was 94% in both arms; ≥CR 74% vs 72% and sCR 64% vs 67% in the IsaKRd vs KRd arms. High MRD compliance and sample quality (97-100% of sample evaluable at 10⁻⁵ and 10⁻⁶ cut-offs). Consistent MRD results were detected by next-generation flow. In the logistic regression analysis, ORs, 95% CIs, and p-values were adjusted for stratification factor.

MRD negativity rates improved over time

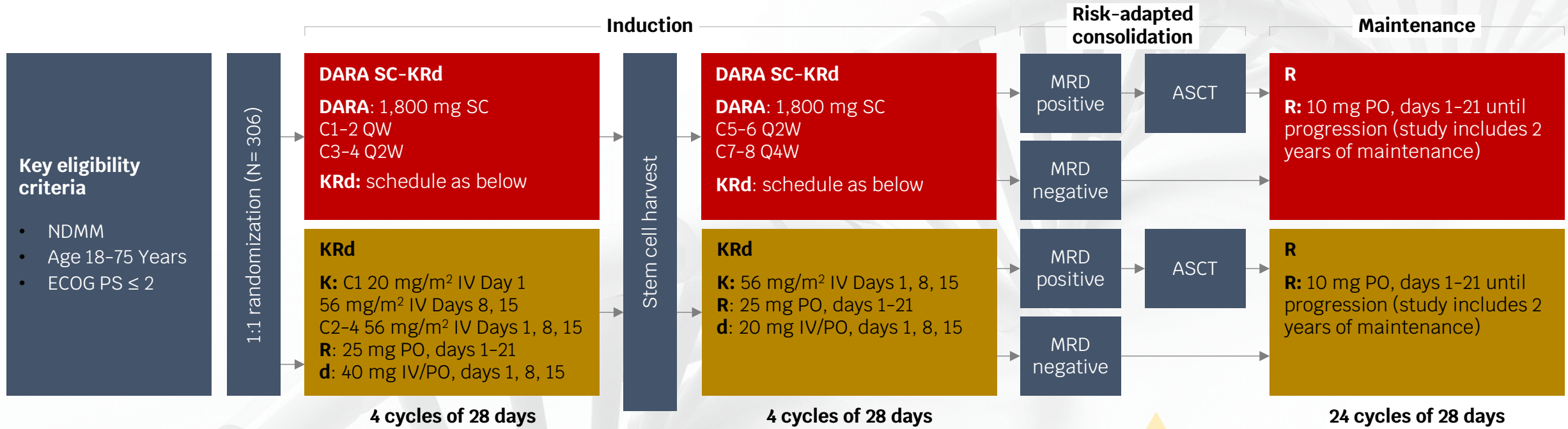


Key secondary endpoint: Currently, no difference in PFS (95% at 1 year); (mFU, 20 months, IQR 18-23).

ISKIA: MRD IN PATIENTS WITH HIGH-RISK CYTOGENETIC ABNORMALITIES



NDMM- TRANSPLANT ELIGIBLE AND INELIGIBLE: ADVANCE STUDY DESIGN



Primary endpoint: Overall MRD negativity rate \geq VGPR

Key secondary endpoints: PFS, EFS, \geq CR, OS, Safety, MRD negativity rate in peripheral blood

Transplant-eligible patients with MRD $\geq 10^{-5}$ by NGS after combination therapy were recommended to proceed with high-dose melphalan chemotherapy followed by autologous stem cell transplant (ASCT)

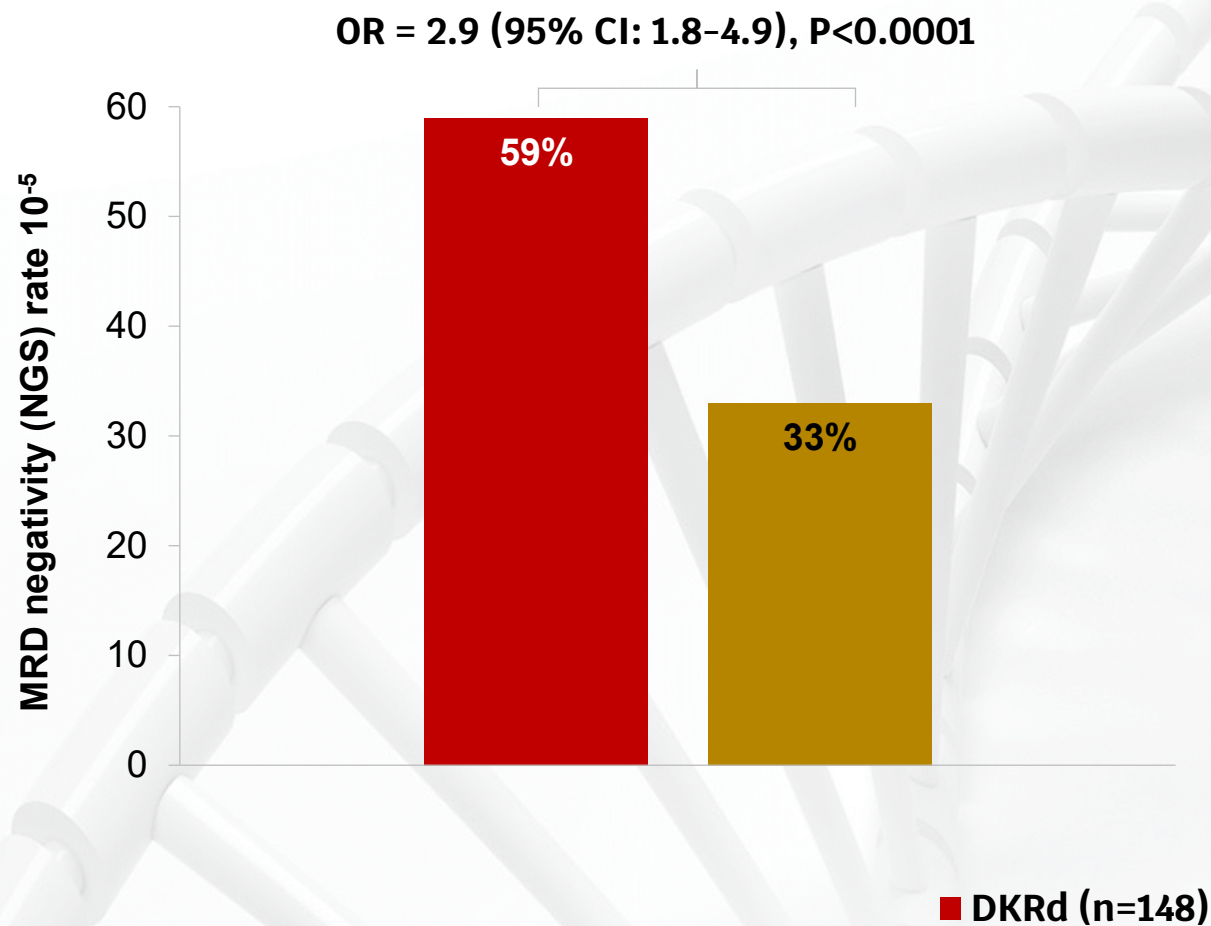
MRD negativity rate was defined as the proportion of patients who achieved both MRD negativity and \geq VGPR in the ITT population. Patients who were not evaluable for MRD testing were considered MRD positive.

ECOG PS, Eastern Cooperative Oncology Group performance status; C, carfilzomib; IV, intravenous; R, lenalidomide; PO, oral; d, dexamethasone; DARA SC (DARA 1,800 mg co-formulated with recombinant human hyaluronidase PH20 [rHuPH20, 2,000 U/mL; ENHANZE[®] drug delivery technology, Halozyme, Inc, San Diego, CA, USAI); QW, weekly, Q2W, every 2 weeks; Q4W, every 4 weeks; ASCT, Autologous stem cell transplantation; y, year; PR, partial response; ITT, intention to treat; CR, complete response; ISS, International Staging System; IMWG, International Myeloma Working Group: ^aStratified by ISS stage and age. ^bMRD was assessed using the clonoSEQ assay (Adaptive Biotechnologies, Seattle, WA, USA) using bone marrow aspirate samples obtained at baseline, at the time of suspected \geq CR, end of induction, and at end of C12 and C24 maintenance. ^cResponse and disease progression were assessed based on IMWG response criteria. Overall, the MRD negativity rate was defined as the proportion of patients who achieved both MRD negativity (10^{-5} threshold) and \geq CR at any time. ClinicalTrials.gov Identifier: NCT04268498. Accessed April 9, 2025.

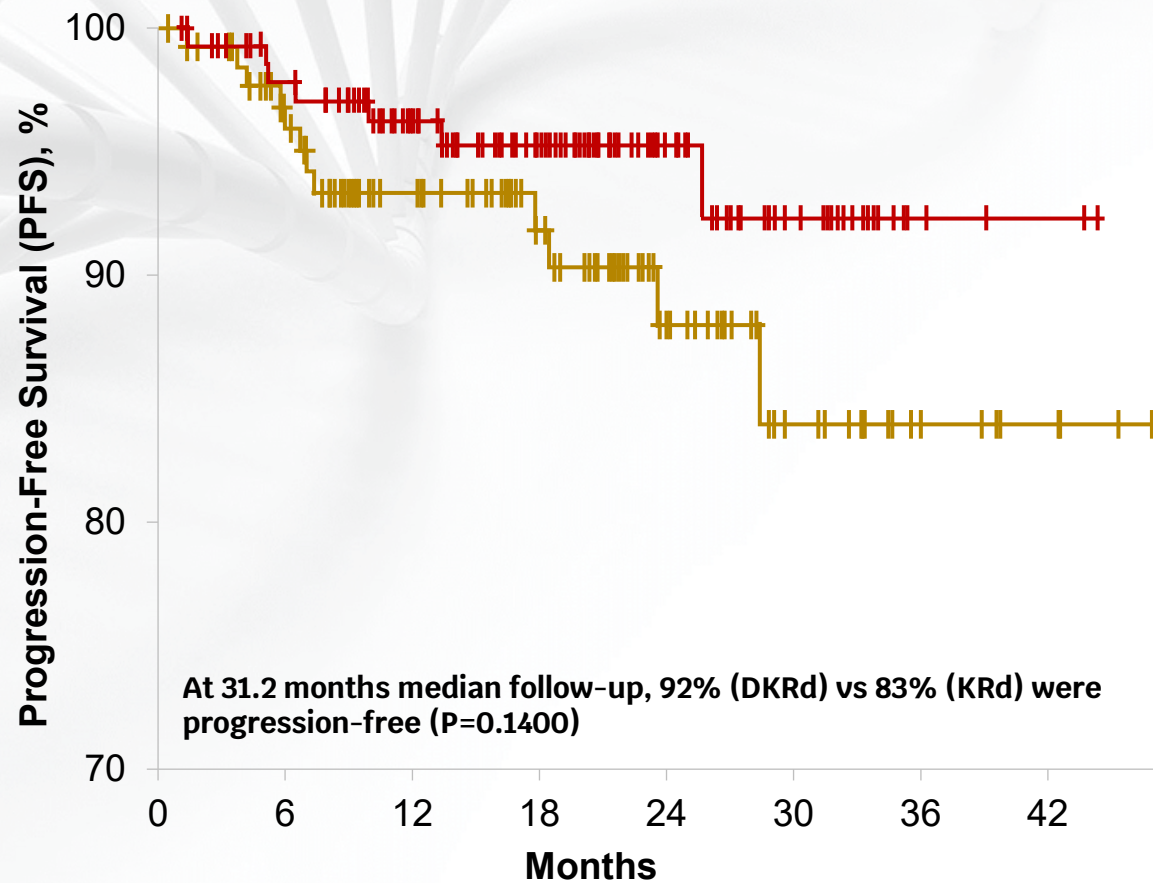
Landgren et. al. ASCO 2025. Oral Presentation. Abstract 7503.

ADVANCE: KEY EFFICACY FINDINGS

MRD Neg 10^{-5} in ITT Population



Progression-Free Survival



NDMM- TRANSPLANT ELIGIBLE AND INELIGIBLE: GMMG-CONCEPT TRIAL DESIGN

ND HRMM
N=245



Arm A
TE and
≤70 years
n=219

Induction

Isa-KRd
6 cycles

Stem cell mobilization after cycle 3

28-day cycles

HDT + ASCT

Consolidation

Isa-KRd
4 cycles

28-day cycles

Maintenance

Isa-KR
26 cycles

28-day cycles

Arm B
TNE and
>70 years
n=26

Isa-KRd
8 cycles

Isa-KRd
4 cycles

Isa-KR
26 cycles

Isa: 10 mg/kg D1,8,15,22 in C1; D1,15 in C2+; K 20 mg/m² D1,2 of C1; 36 mg/m² D8,9,15,16 of C1 and D1,2,8,9,15,16 in C2+; from 2021 onwards: 56 mg/m² on D1,8,15 and 70 mg/m² on D1,15 in maintenance; R: 25 mg D1-21 all Cycles; d: 40 mg D1,8,15,22 all Cycles (20 mg age >75).

↑
Arm A: app. 15-18 months after inclusion
Arm B: app. 12 months after inclusion

HRMM criteria: ISS stage II or III **PLUS** ≥1 of: del(17p), t(4;14), t(14;16) and/or ≥3 copies 1q21 (amp1q21)

Primary objective: MRD negativity after consolidation (NGF, 10⁻⁵)

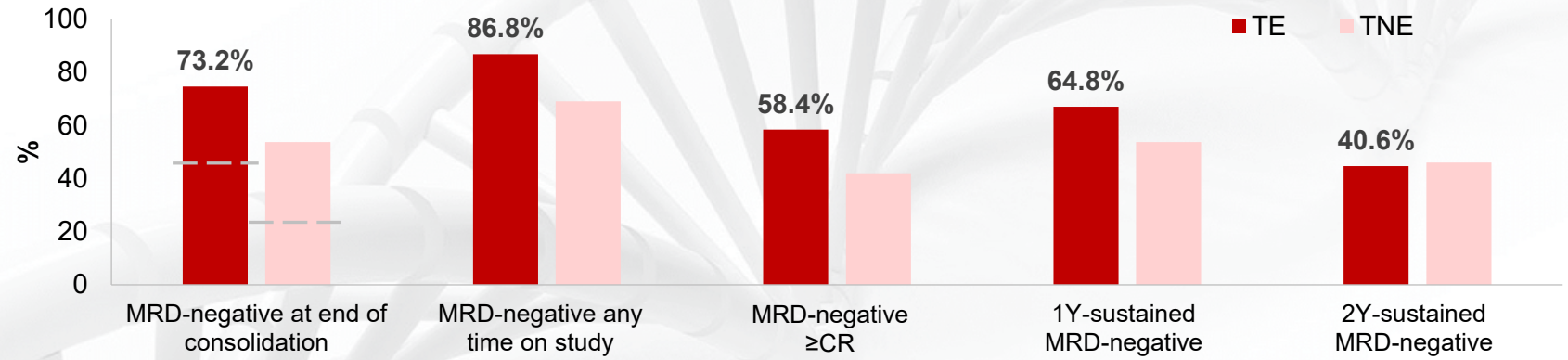
Secondary objective: PFS; Selected tertiary objectives: ORR, OS

ASCT, autologous stem-cell transplant; d, dexamethasone; HDT, high-dose therapy; HRMM, high-risk multiple myeloma; Isa, isatuximab; ISS, International Staging System; K, carfilzomib; MRD, minimal residual disease; ND, newly-diagnosed; NGF, next-generation flow; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; R, lenalidomide; TE, transplant-eligible; TNE, transplant-ineligible. Following a protocol amendment in 2021, carfilzomib application was switched to once weekly 56 mg/m².

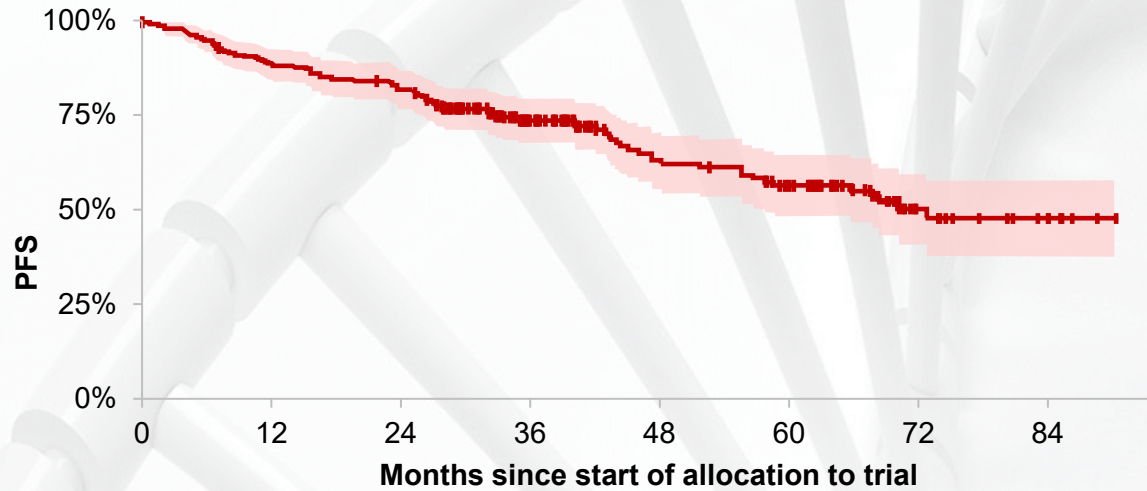
Leyboldt et.al ASCO 2025 Oral Presentation. Abstract 7509.

GMMG-CONCEPT: KEY EFFICACY OUTCOMES @ 43 MONTHS FU

- Primary endpoint met with an MRD-negativity rate after consolidation of 73.2% (153/209), $p=1.91 \times 10^{-13}$
- Overall, 86.8% reached MRD-negativity at any time
- 58.4% reached MRD-negative \geq CR
- 64.8% and 40.6% retained \geq 1-year and \geq 2-year sustained MRD-negativity

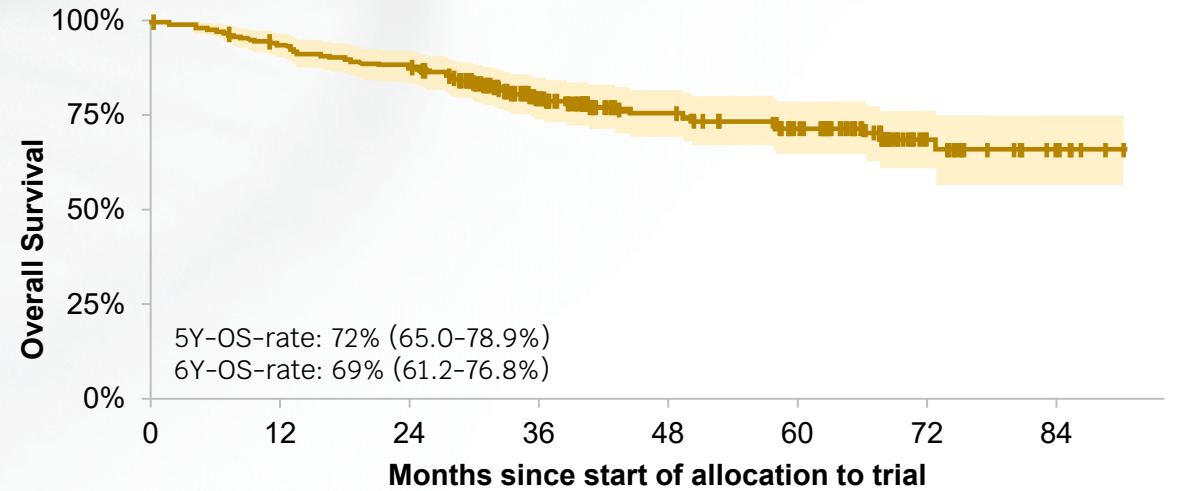


mPFS 72.8 months



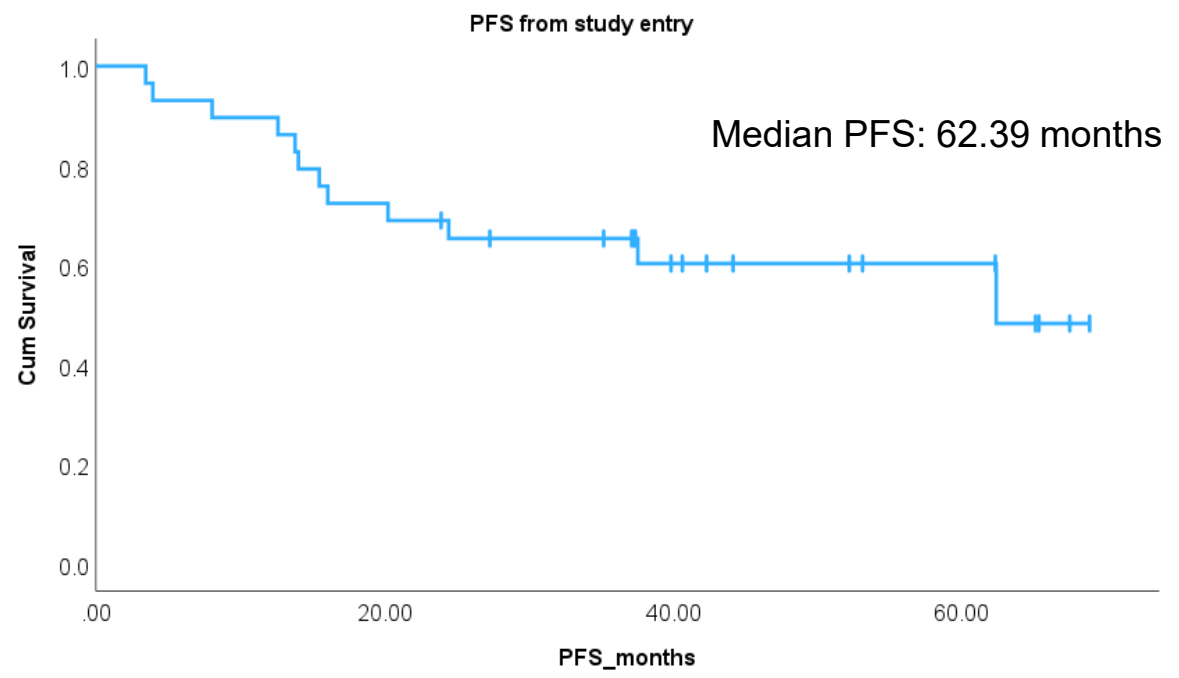
219 (0) 193 (2) 177 (1) 109 (52) 68 (29) 53 (8) 20 (29) 5 (14)

mOS not reached

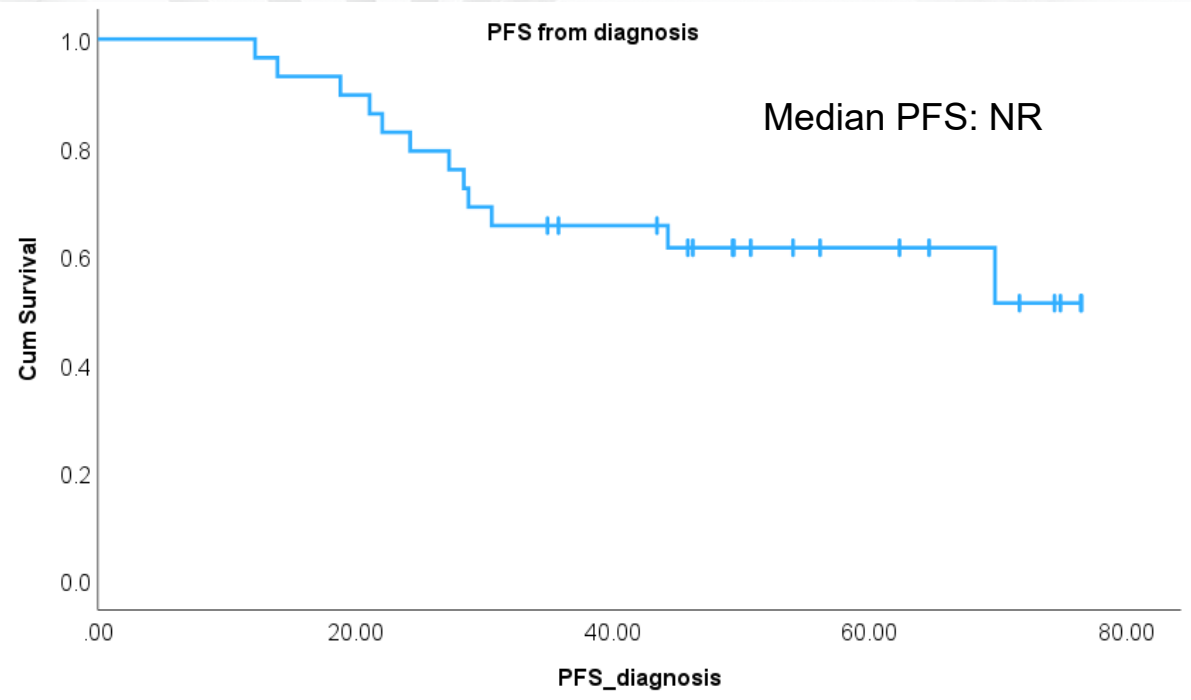


219 (0) 203 (3) 190 (0) 122 (52) 82 (35) 66 (12) 24 (40) 6 (17)

PFS WITH KPD MAINTENANCE



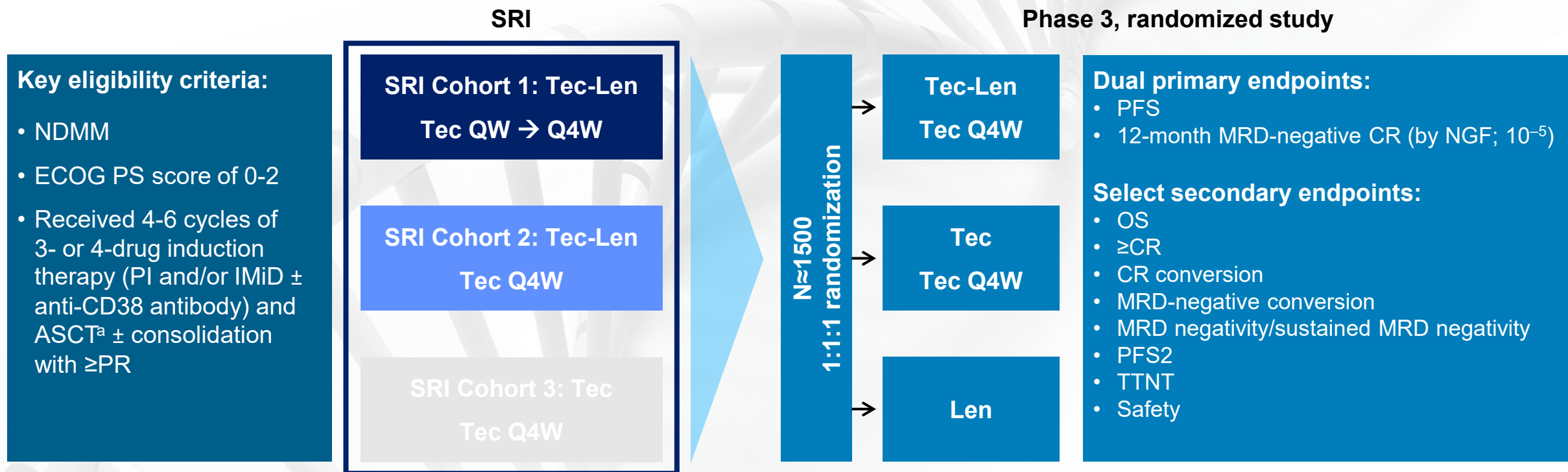
Median follow up: 44 months



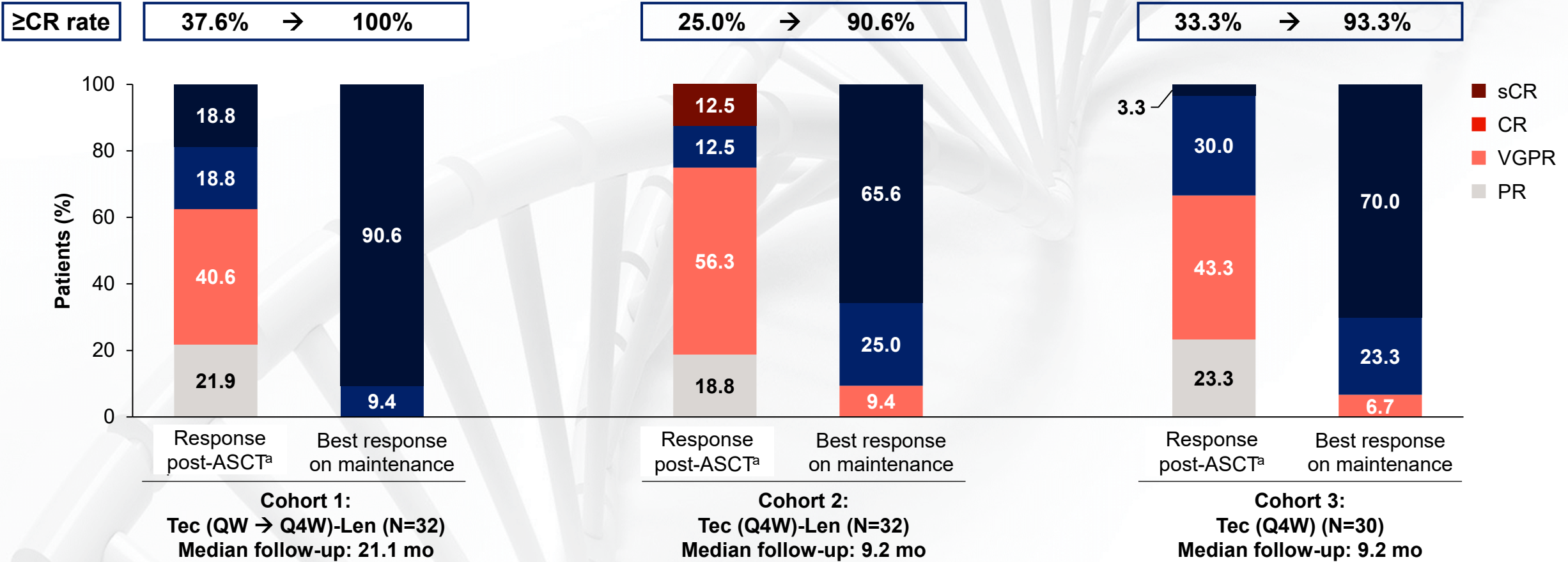
Median follow up: 56 months

Nooka et al, ASCO 2023
Data cut off May 2025

EMN30/MAJESTEC-4: STUDY DESIGN

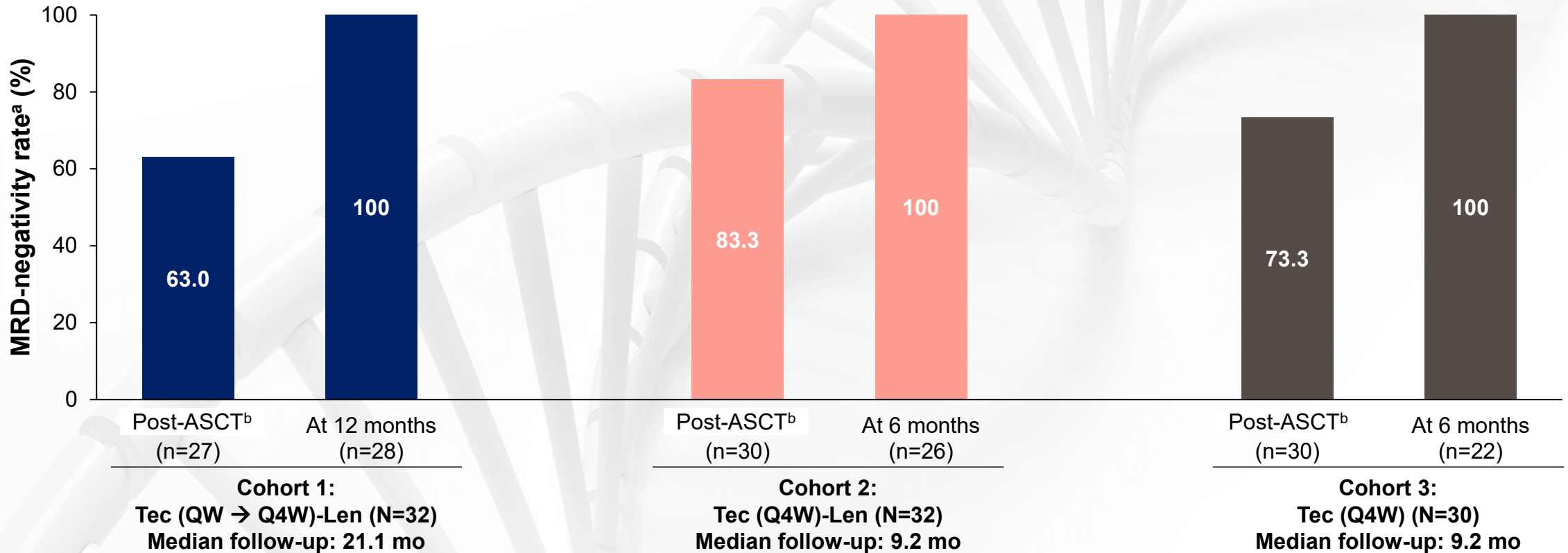


EMN30/MAJESTEC-4 SRI: RESPONSE RATES POST-ASCT AND DURING MAINTENANCE



Responses deepened during maintenance in all treatment cohorts

EMN30/MAJESTEC-4 SRI: MRD NEGATIVITY (10^{-5}) IN EVALUABLE PATIENTS POST-ASCT AND DURING MAINTENANCE



100% of evaluable patients were MRD negative during maintenance

NDMM- TRANSPLANT INELIGIBLE: : CEPHEUS TRIAL SUMMARY

Key eligibility criteria:

- NDMM (TIE or transplant deferred)
- ECOG PS score of 0-2
- Frailty score of 0-1

1:1 randomization (N = 395)

VRd
V: 1.3 mg/m² SC Days 1, 4, 8, 11
R: 25 mg PO Days 1-14
d: 20 mg PO Days 1, 2, 4, 5, 8, 9, 11, 12

DARA SC-VRd
DARA: 1,800 mg SC QW Cycles 1-2, Q3W Cycles 3-8
VRd: schedule as above

Rd Cycle 9+
R: 25 mg PO Days 1-21
d: 40 mg PO Days 1, 8, 15, 22

DARA SC-Rd Cycle 9+
DARA: 1,800 mg SC Q4W
Rd: schedule as above

21-day cycles
8 cycles of bortezomib treatment

28-day cycles until disease progression or unacceptable toxicity

Primary endpoint:

- Overall MRD (≥CR) negativity

Key secondary endpoints:

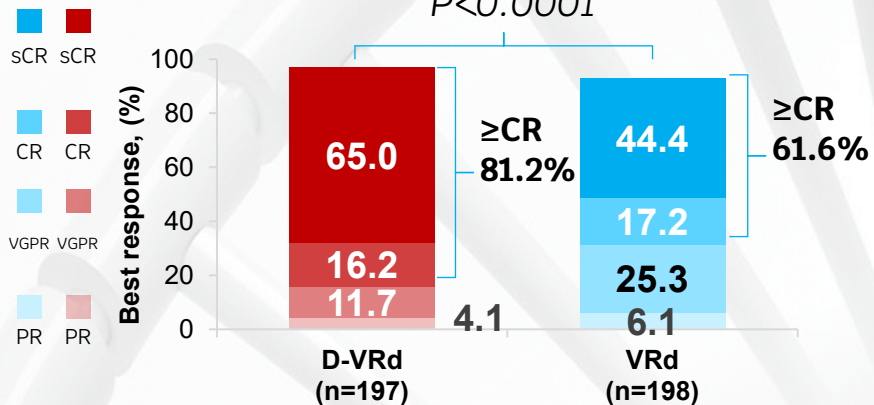
- PFS
- Sustained MRD (≥CR) negativity (≥12 months)
- ≥CR rate
- OS

Primary endpoint

≥CR rate

OR, 2.73 (95% CI, 1.71-4.34);

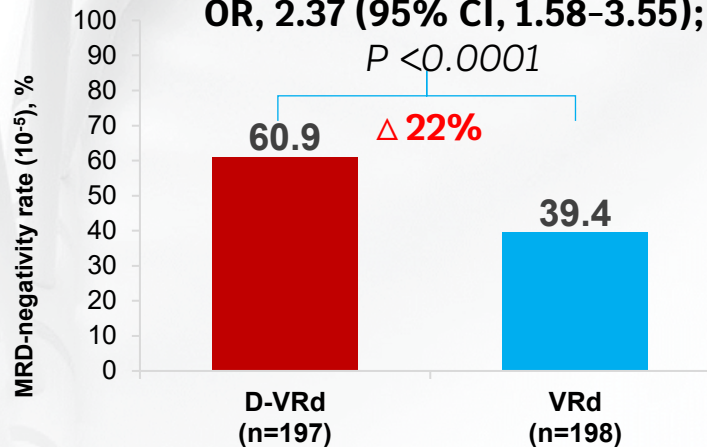
P < 0.0001



Overall MRD-negativity rate (10⁻⁵)

OR, 2.37 (95% CI, 1.58-3.55);

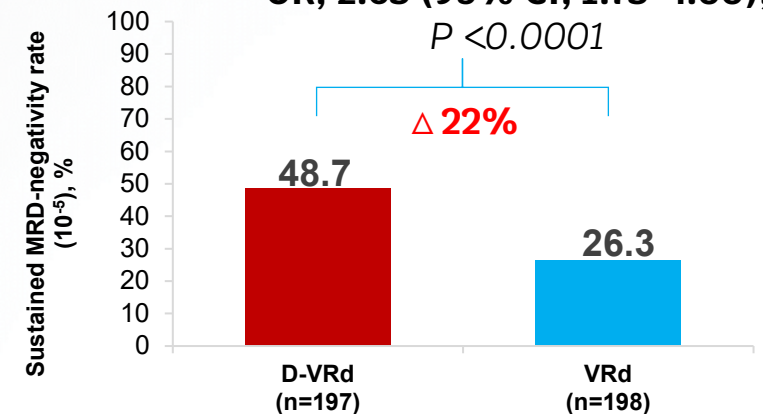
P < 0.0001



Sustained MRD-neg rate (10⁻⁵) ≥12 months

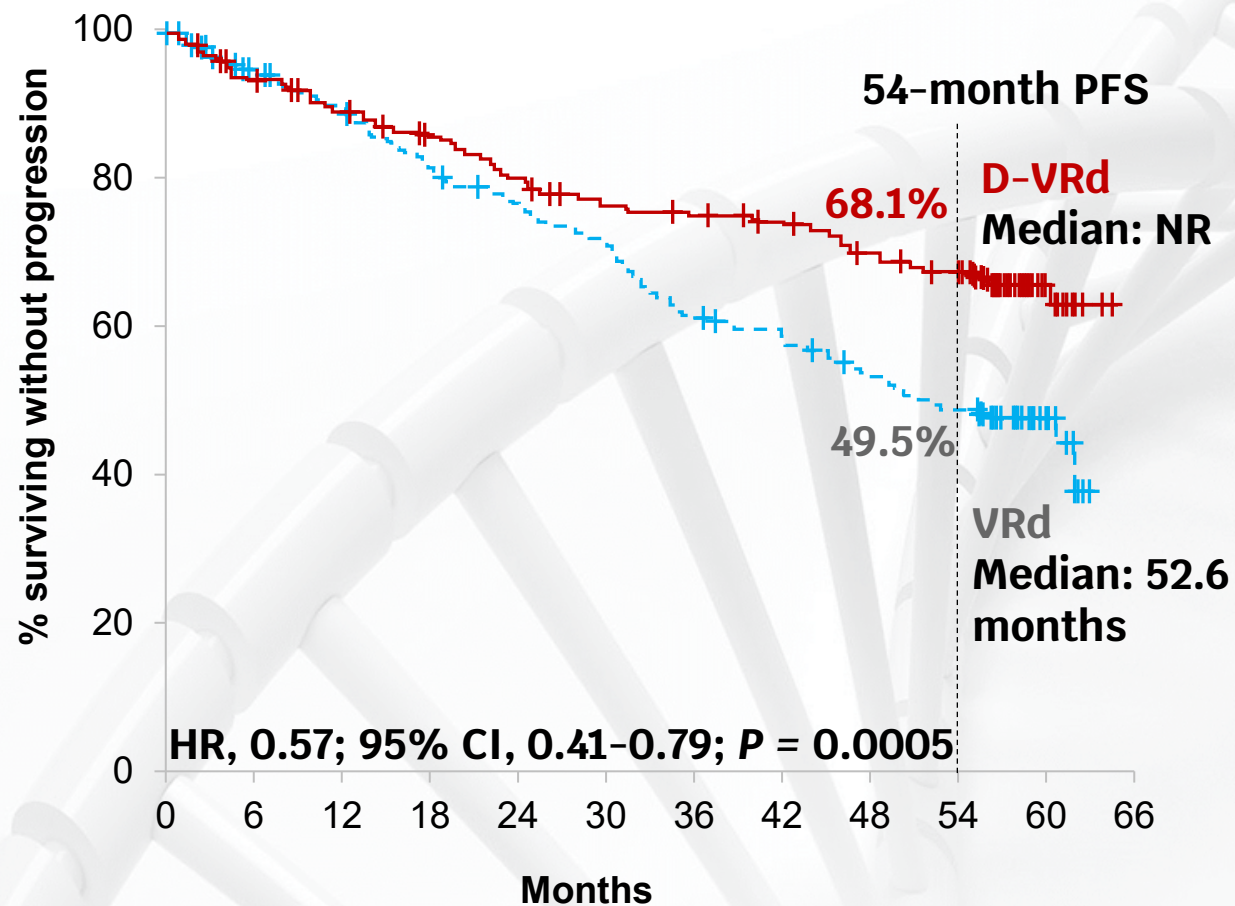
OR, 2.63 (95% CI, 1.73-4.00);

P < 0.0001

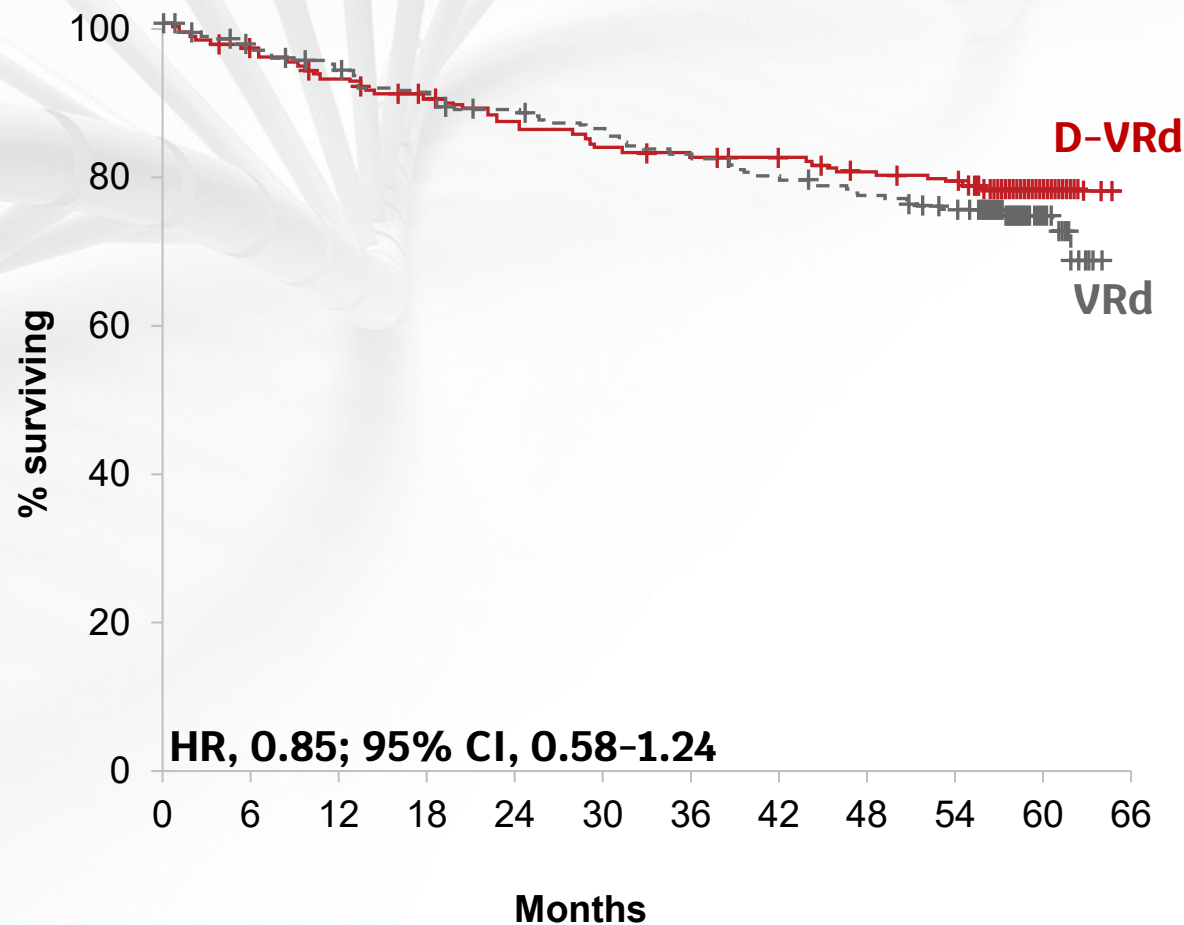


CEPHEUS: KEY SECONDARY ENDPOINTS @ 58.7 MONTHS

PFS (ITT)



OS (ITT population)

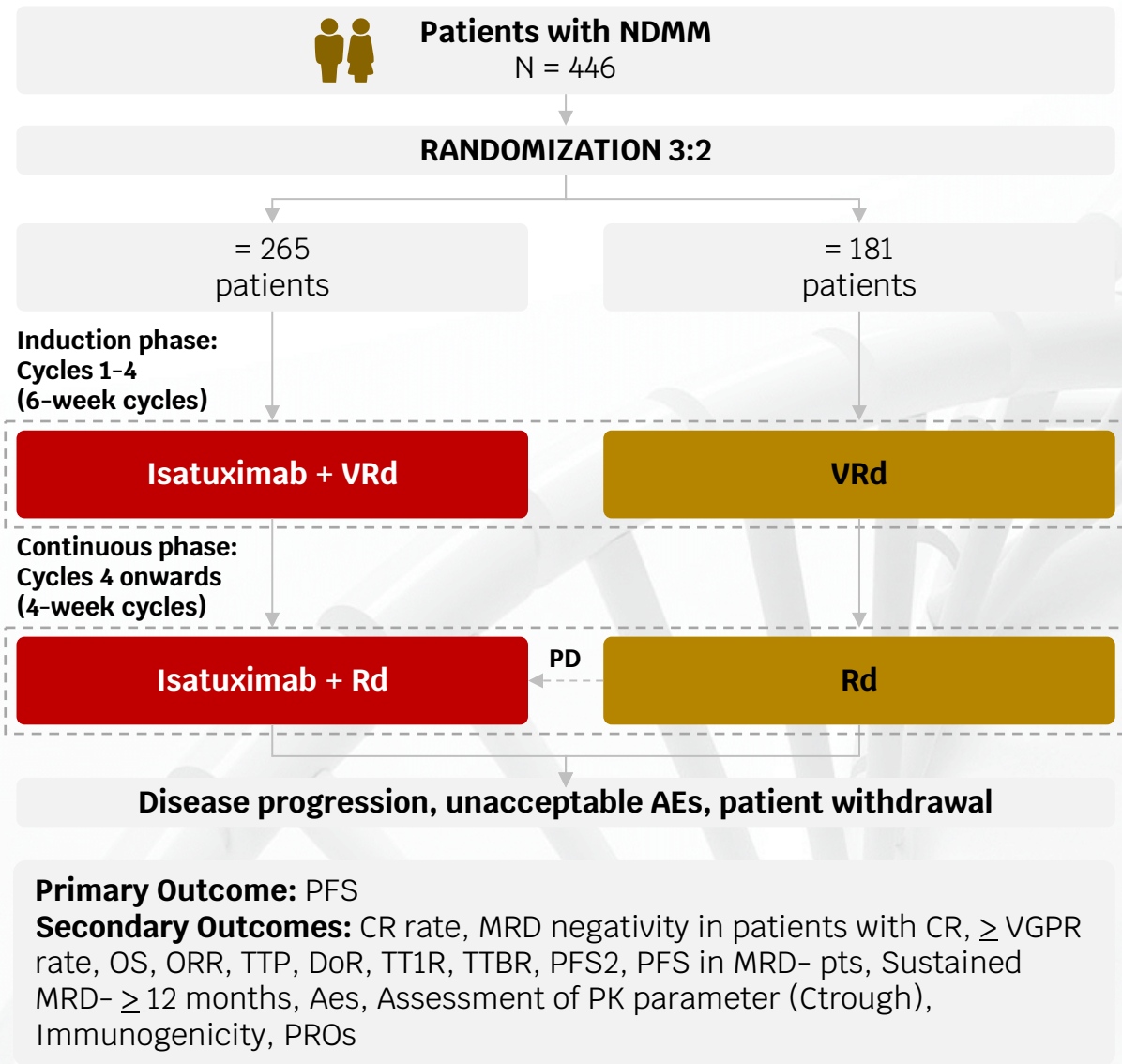


Reformatted from: SZ Usmani at the 21st International Myeloma Society (IMS) Annual Meeting; September 25-28, 2024; Rio de Janeiro, Brazil

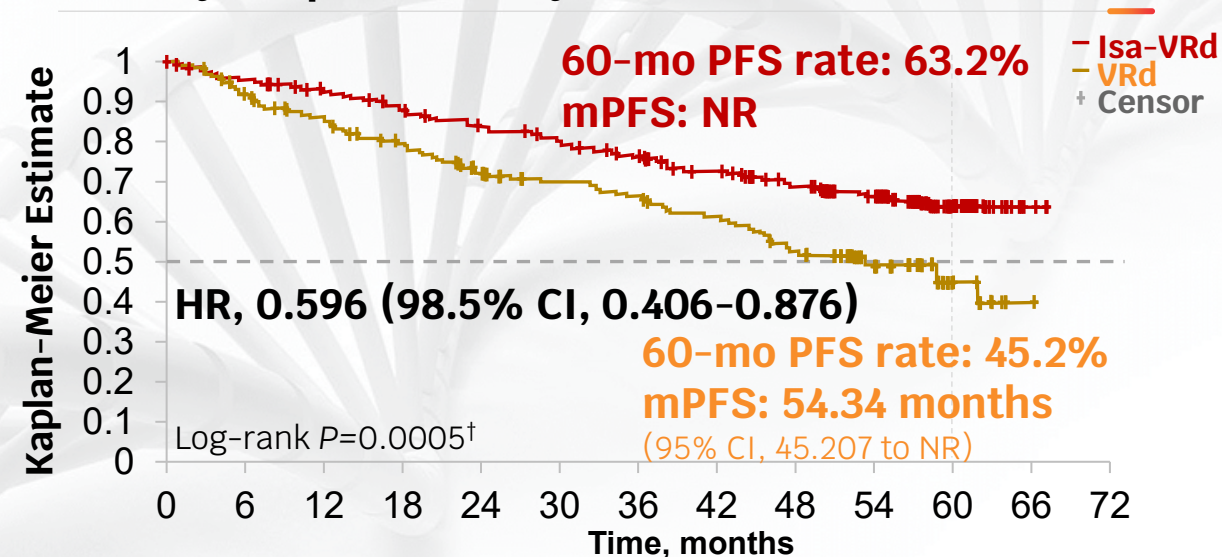
CEPHEUS: SAFETY

TEAE, n (%)	D-VRd (n = 197)		VRd (n = 195)			
	Any grade	Grade 3 or 4	Any grade	Grade 3 or 4		
HEMATOLOGIC						
Blood and lymphatic system disorders	163 (82.7)	126 (64.0)	126 (64.6)	98 (50.3)		
Neutropenia	110 (55.8)	87 (44.2)	76 (39.0)	58 (29.7)		
Thrombocytopenia	92 (46.7)	56 (28.4)	66 (33.8)	39 (20.0)		
Anemia	73 (37.1)	26 (13.2)	62 (31.8)	23 (11.8)		
NONHEMATOLOGIC						
Gastrointestinal disorder	157 (79.7)	41 (20.8)	159 (81.5)	40 (20.5)		
Diarrhea	112 (56.9)	24 (12.2)	115 (59.0)	18 (9.2)		
Constipation	75 (38.1)	4 (2.0)	82 (42.1)	5 (2.6)		
General disorders and administration-site conditions	159 (80.7)	40 (20.3)	147 (75.4)	28 (14.4)		
Peripheral edema	83 (42.1)	4 (2.0)	76 (39.0)	1 (0.5)		
Fatigue	63 (32.0)	18 (9.1)	60 (30.8)	16 (8.2)		
Psychiatric disorders	91 (46.2)	10 (5.1)	96 (49.2)	10 (5.1)		
Insomnia	63 (32.0)	4 (2.0)	63 (32.3)	2 (1.0)		
Infections	181 (91.9)	79 (40.1)	167 (85.6)	62 (31.8)		
Upper respiratory tract infection	78 (39.6)	1 (0.5)	64 (32.8)	1 (0.5)		
COVID-19	75 (38.1)	22 (11.2)	48 (24.6)	9 (4.6)		
Second primary malignancies	15 (7.6)	-	18 (9.2)	-		
	Any grade	Grade 2	Grade 3 or 4	Any grade	Grade 2	Grade 3 or 4
Peripheral sensory neuropathy	110 (55.8)	60 (30.5)	16 (8.1)	119 (61.0)	70 (35.9)	16 (8.2)

NDMM- TRANSPLANT INELIGIBLE: : IMROZ: TRIAL SUMMARY

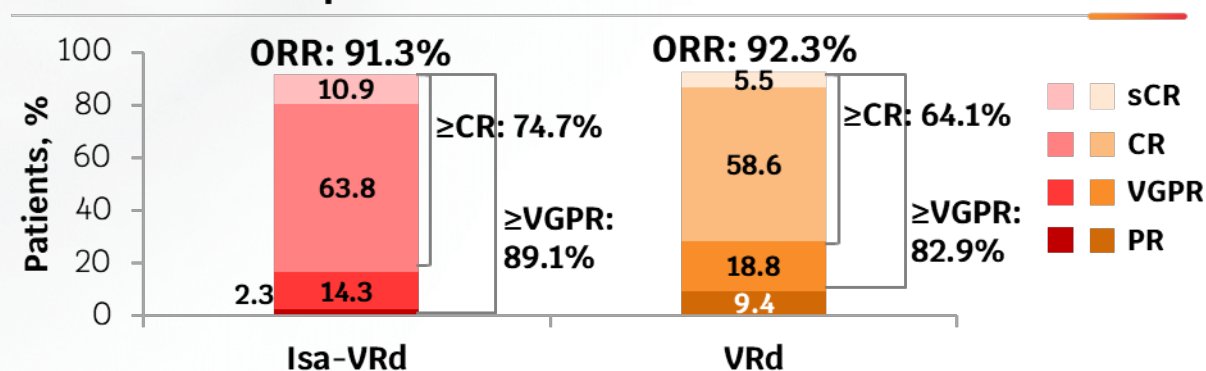


Primary Endpoint: PFS by IRC in ITT



Overall Survival Rates	Isa-VRd	VRD	HR
	72.3%	66.3%	0.776 (95% CI, 0.407-1.48)

Best Overall Response



Facon et. al., PHASE III (IMROZ) STUDY DESIGN: ISATUXIMAB PLUS BORTEZOMIB, LENALIDOMIDE, AND DEXAMETHASONE (VRD) VERSUS VRD IN TRANSPLANT-INELIGIBLE PATIENTS WITH NEWLY DIAGNOSED MULTIPLE MYELOMA. Abstract release date: 05/17/18) EHA Library. Facon T. 06/14/18; 216012; PB2185

IMROZ: SAFETY SUMMARY

AE Preferred Term, n (%)	Isatuximab + VRd (n = 263)		VRd (n = 181)	
	Any Grade	Grade ≥3	Any Grade	Grade ≥3
Hematologic lab abnormalities				
▪ Neutropenia	230 (87.5)	143 (54.4)	145 (80.1)	67 (37.0)
Nonhematologic AEs				
▪ Infections	240 (91.3)	118 (44.0)	157 (86.7)	69 (38.1)
▪ Pneumonia	79 (30.0)	53 (20.2)	35 (19.3)	23 (12.7)
▪ Upper respiratory tract infection	90 (34.2)	2 (0.8)	61 (33.7)	2 (1.1)
▪ Diarrhea	144 (54.8)	20 (7.6)	88 (48.6)	15 (8.3)
▪ Peripheral sensory neuropathy	143 (54.4)	19 (7.2)	110 (60.8)	11 (6.1)
▪ Cataract	100 (38.0)	41 (15.6)	46 (25.4)	20 (11.0)
Invasive second primary malignancies				
▪ Solid tumors	22 (8.4)	14 (5.3)	8 (4.4)	6 (3.3)
▪ Hematologic	3 (1.1)	1 (0.4)	1 (1.1)	1 (1.1)
Event rate per patient-year				
▪ Infections	1.181	--	1.166	--
▪ Secondary primary malignancies	0.041	--	0.026	--

IFM2020-05/BENEFIT: PHASE 3 STUDY OF ISATUXIMAB PLUS LENALIDOMIDE AND DEXAMETHASONE WITH/WITHOUT BORTEZOMIB: TRIAL SUMMARY

- 270 NTE NDMM patients, aged 65–79 years old and non-frail, randomized 1:1 ratio to Isa-Rd or Isa-VRd lite
- Patients receive isatuximab IV 10 mg/kg on days 1,8,15, and 22 of cycle 1, days 1 and 15 from cycle 2 to 12 and day 1 from cycle 13 onward, 28-day cycles
- Bortezomib was administered weekly and subcutaneously on days 1, 8, 15 at 1.3 mg/m² from cycle 1 to 12 and on days 1, 15 from cycle 13 to 18, and then stopped
- Patients will then continue receiving Isa-Rd until progression in both arms

Primary Endpoint:
MRD- rate @18 months

Key secondary:
OS, PFS, EFS, TTNT,
Response rates, DoR
and safety

Patient Characteristics

- Median age: 73.2 years
- 90 patients (33%) were >75 years
- 23 (9%) had high-risk cytogenetic (IFM score >1)
- 181 (76%) had R-ISS2+3
- 47 (17%) had impaired renal function (eGFR <60 mL/min)

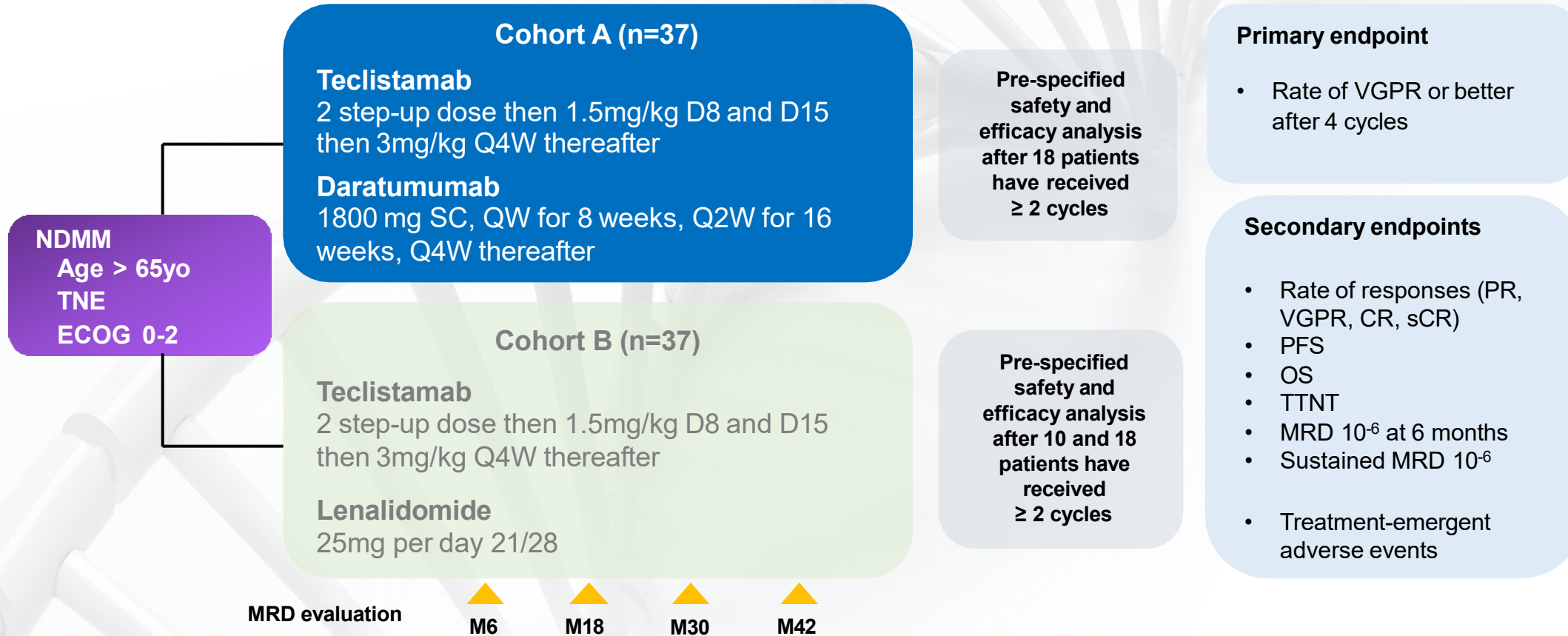
N (%) (ITT Population) [95%CI] at 18 Months	IsaRd (n=135)	Isa-VRd (n=135)	p-value
≥CR	24 (18) [12 – 25]	54 (40) [32 – 49]	0.0001
≥CR- MRD- 10 ⁻⁵	16 (12) [7 – 19]	29 (21) [15 – 29]	0.04
MRD- 10 ⁻⁶	20 (15) [9 – 22]	46 (34) [26 – 43]	0.0004
PFS at 18 months	86% [80 – 92]	87.2% [82 – 93]	0.47
OS at 18 months	93.6% [90 – 98]	92.4% [88 – 97]	0.77

Leleu et. al., Phase 3 randomized study of isatuximab (Isa) plus lenalidomide and dexamethasone (Rd) with bortezomib versus isard in patients with newly diagnosed transplant ineligible multiple myeloma (NDMM TI) ASCO 2024, Abstract 7501

IFM 2021-01 TECLILLE - STUDY DESIGN



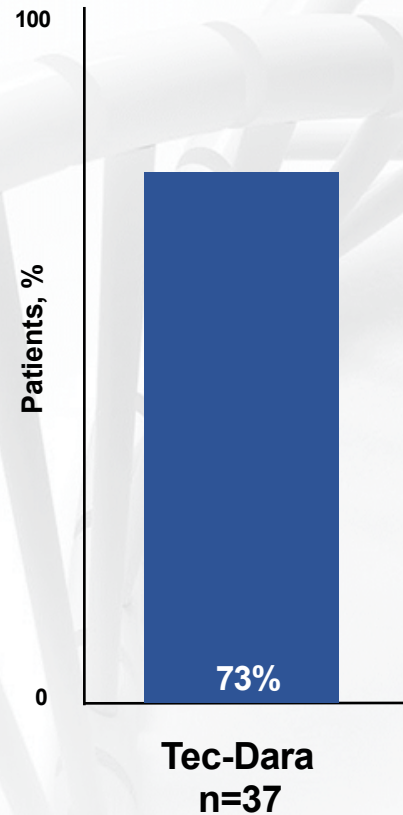
Phase 2 study of Tec-Dara and Tec-Len in TNE NDMM (n = 74)



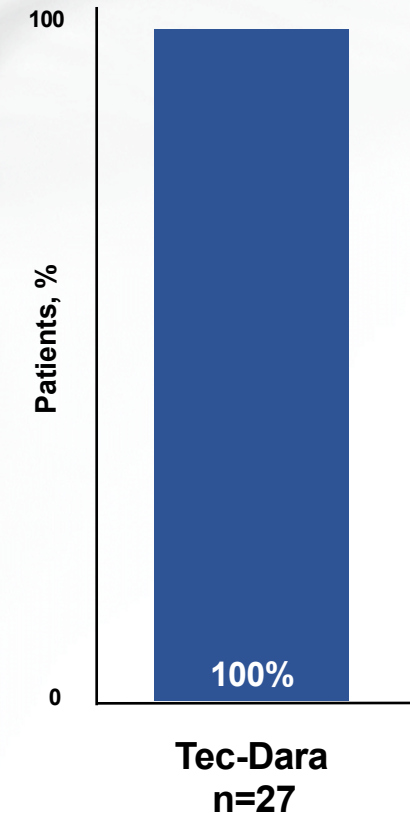
Current amendment:
 Teclistamab 3mg/kg Q8W after C13 if CR or better and treatment interruption if 2-years sustained MRD -

IFM 2021-01 TECLILLE – COHORT A: TEC-DARA MRD NGS 10^{-6} EVALUATION

MRD by NGS 10^{-6} at 6 months ITT



MRD by NGS 10^{-6} at 6 months Evaluable samples



All 37 patients had MRD evaluation by NGS (Clonoseq) at 6 months. For technical reason, 27 patients were evaluable at 10^{-6} :

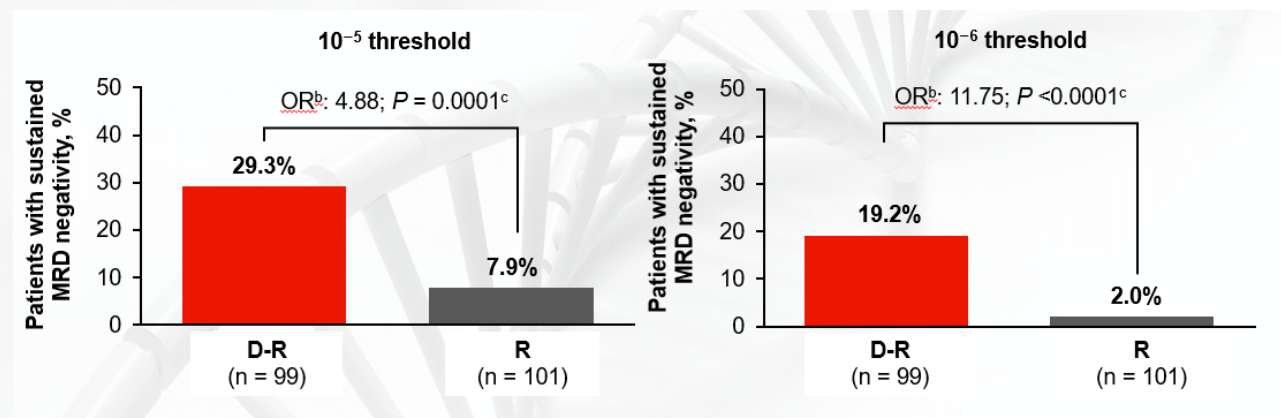
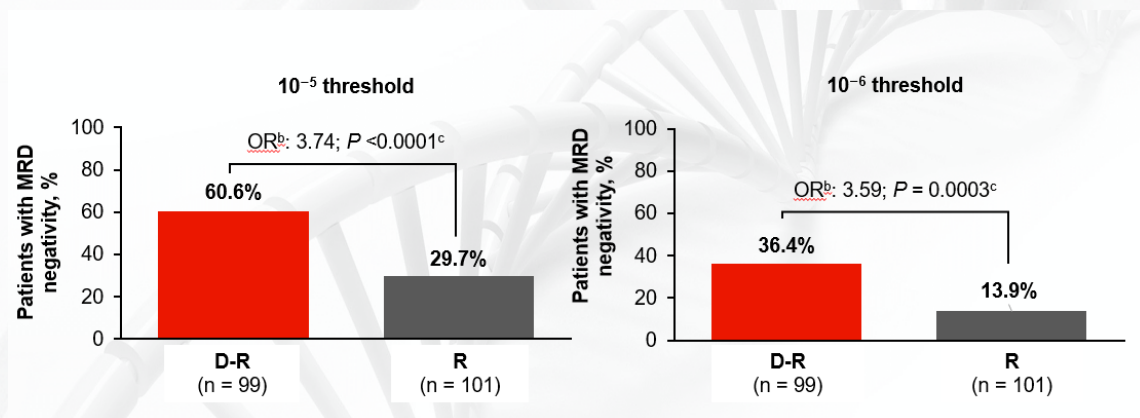
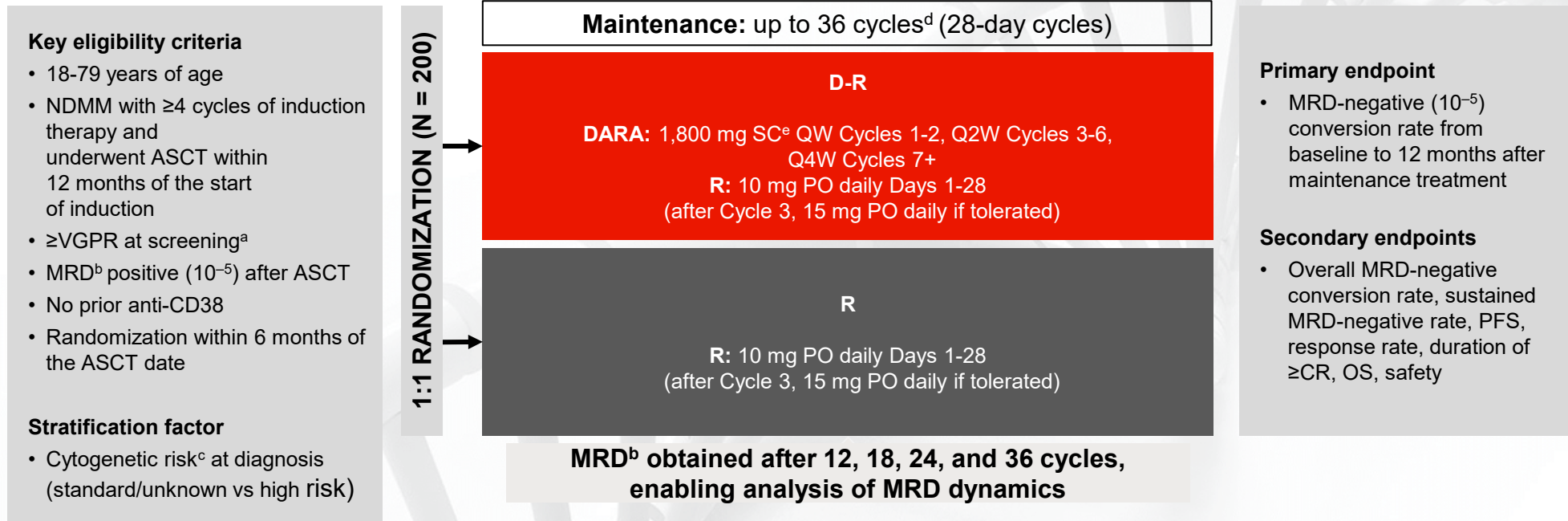
Missing causes	n
Calibration failure	4
Missing samples	3
Only evaluable at 10^{-5}	3

No patients had a positive MRD status.

All evaluable samples were MRD negative at 10^{-6} by NGS at 6 months

AURIGA: STUDY DESIGN

- Objective: To better understand the evolution of MRD status during maintenance and its impact on long-term outcomes



CC-220-MM-001: IBERDOMIDE + DARA-DEX CELMOD TRIPLETS FOR TRANSPLANT-INELIGIBLE NDMM

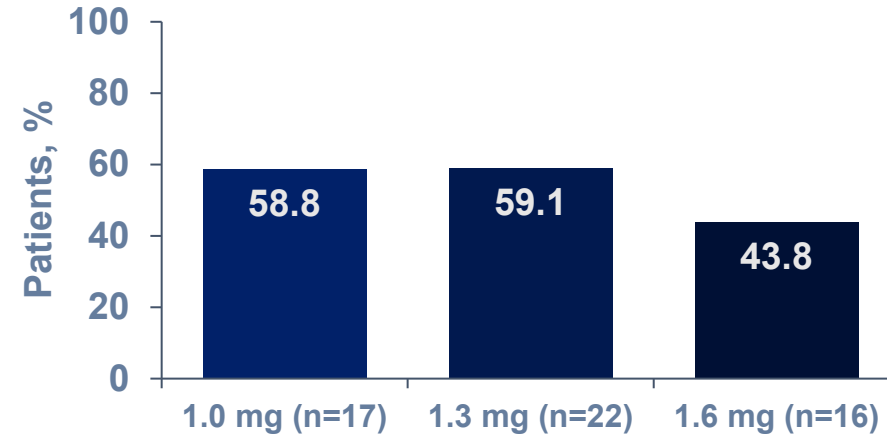
75 transplant-ineligible NDMM patients

- Iberdomide 1.0, 1.3, 1.6 mg
- 25 patients at each dose level
- NDMM with no planned or recommended ASCT due to age or comorbidities
- Biomarker defined populations: IHC, WGS, RNAseq analyses

Markers

- High-risk markers: 3 *TP53* mutations, 2 del(17p), 2 1qAmp, 1 t(4;14)
- All patients responded to IberDd in each subgroup
- High-risk gene expression signatures (n=15) showed similar PFS in patients with high and low EMC92 and UAMS70 scores
- Immune compartment: similar baseline levels and changes in T, B, and NK cells and T-cell subsets – activated (HLA-DR+, ICOS+), naive, memory, and exhausted (PD1+, LAG3+, TIM3+) CD4 and CD8 T cells – across patient subgroups

MRD-neg in \geq VGPR patients



Activity

- > 90% sFLC reductions across all dose levels
- ORR 100%
- 6 patients proceeded to ASCT
- At 3 months post-ASCT, ORR 100% (3 CRs, 2 VGPRs, 1 PR)
- 1 patient with documented sCR and MRD-neg at data cutoff
- Median PFS not reached

CC-220-MM-001: IBERDOMIDE + BORTEZOMIB-DEX CELMOD TRIPLETS FOR TRANSPLANT-INELIGIBLE NDMM

18 transplant-ineligible NDMM patients

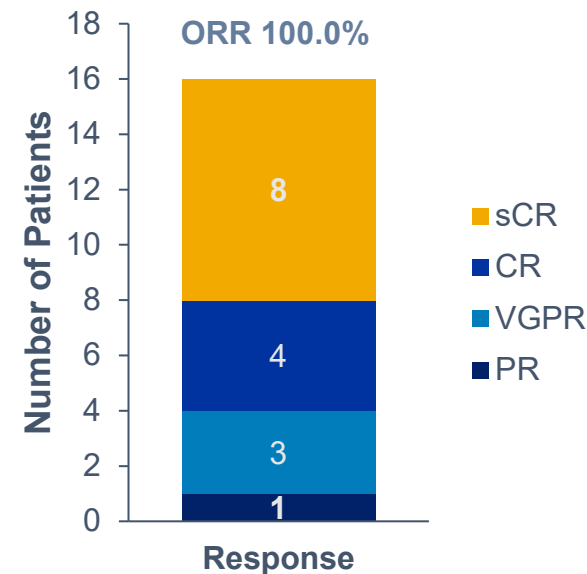
- Iberdomide: Days 1–14 (21-d cycle, Cycles 1–8); Days 1–21 (28-d cycle, \geq Cycle 9)
- Bortezomib: Days 1, 4, 8, 11 (Cycles 1–8)
- Dexamethasone: intensive early (Cycles 1–8), weekly (\geq Cycle 9)
- Endpoints: Efficacy, safety, pharmacokinetics, MRD by flow cytometry
- Median follow-up: 25 months

Safety

- In the safety population (n = 17), 14 (82.4%) pts had grade 3/4 treatment-emergent AEs (TEAEs), primarily infections (47.1%)
- The most common hematologic grade 3/4 TEAE was neutropenia (29.4%)
- 2 (11.8%) pts had grade 3–4 peripheral neuropathy
- IBER dose interruptions and reductions due to TEAEs occurred in 14 (82.2%) and 10 (58.8%) pts, respectively
 - Dose reductions were mainly due to peripheral neuropathy (23.5%), neutropenia (11.8%), and thrombocytopenia (11.8%)
- TEAEs were manageable with dose modifications/interruptions and G-CSF use.

Efficacy

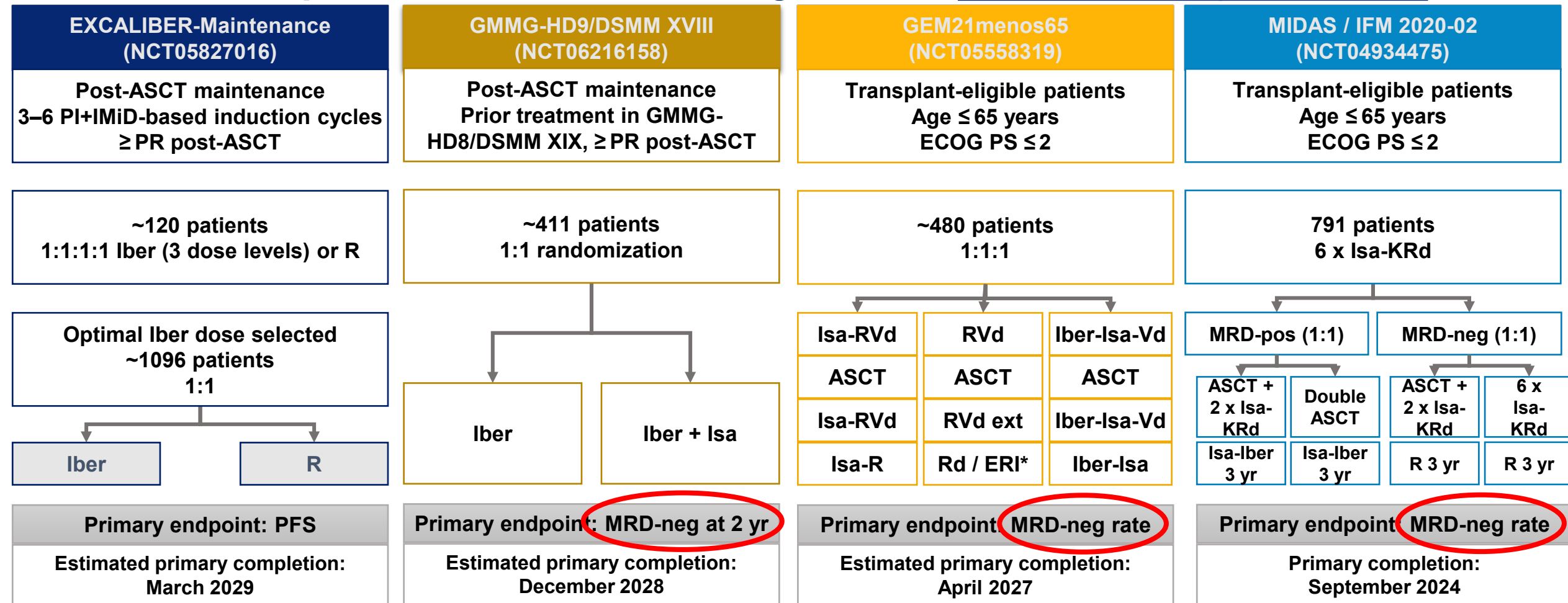
Iberdomide + Bortezomib-dex (n = 16)



- Median time to response: 0.7 mo
- Median duration of response: not reached
- MRD negativity (10^{-5}): 8 pts (50%), all had \geq CR

Phase 3 Studies of IBERDOMIDE IN NDMM: A REPLACEMENT FOR LENALIDOMIDE?

CELMoD Quadruplets and Maintenance Regimens in Transplant-Eligible NDMM

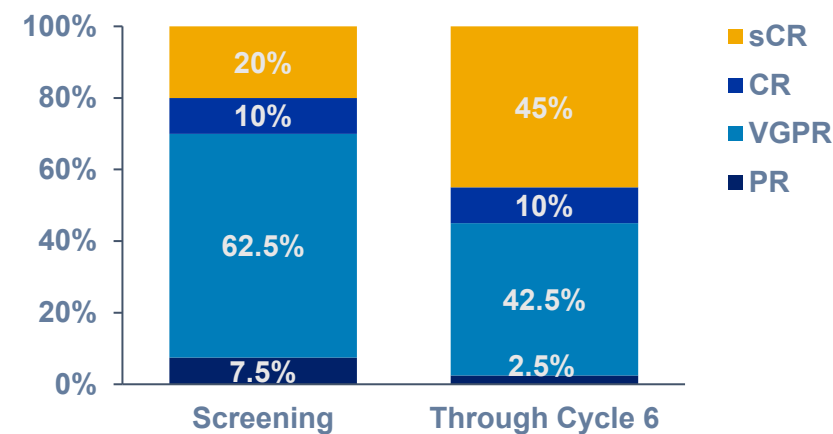
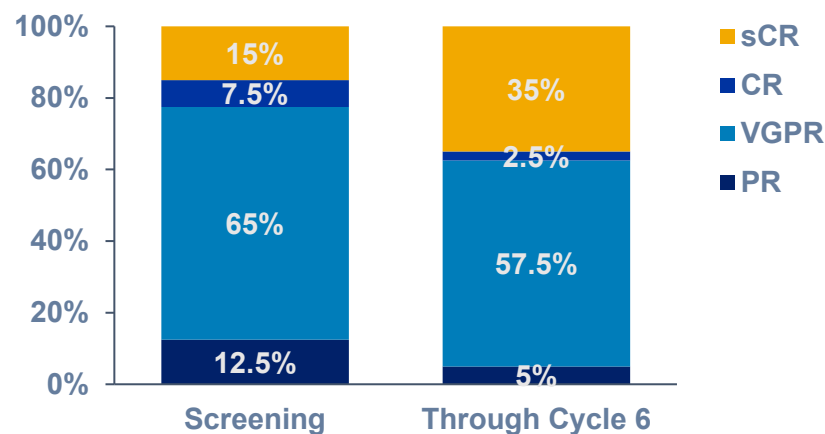
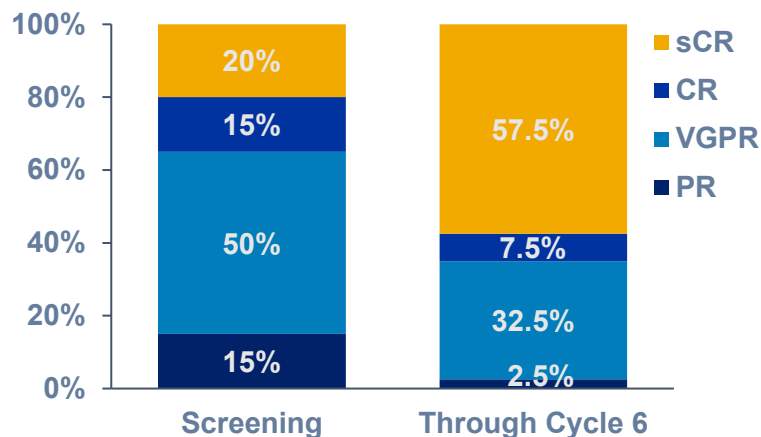


*Early rescue intervention: Isa-Iber-d

EMN26: IBERDOMIDE AS POST-ASCT MAINTENANCE

120 NDMM patients

- ≥ PR after PI-IMiD-containing induction, 1/2 ASCT, ± consolidation
- Median age 59 years, 54% male
- 31% / 57% / 12% R-ISS stage I / II / III
- 21% high-risk cytogenetics
- 40 patients per dose cohort (0.75, 1.0, 1.3 mg)



0.75 mg cohort, n = 40

- 66% improved response depth through cycle 6
- NR through cycle 12
- 30% MRD-pos to MRD-neg
- 12-month PFS 95%
- Grade ≥ 3 neutropenia 30%, infections 2%

1.0 mg cohort, n = 40

- 32% improved response depth through cycle 6
- 47% through cycle 12
- 32% MRD-pos to MRD-neg
- 12-month PFS 87%
- Grade ≥ 3 neutropenia 42%, infections 15%

1.3 mg cohort, n = 40

- 41% improved response depth through cycle 6
- 50% through cycle 12
- 53% MRD-pos to MRD-neg
- 12-month PFS 90%
- Grade ≥ 3 neutropenia 52%, infections 10%

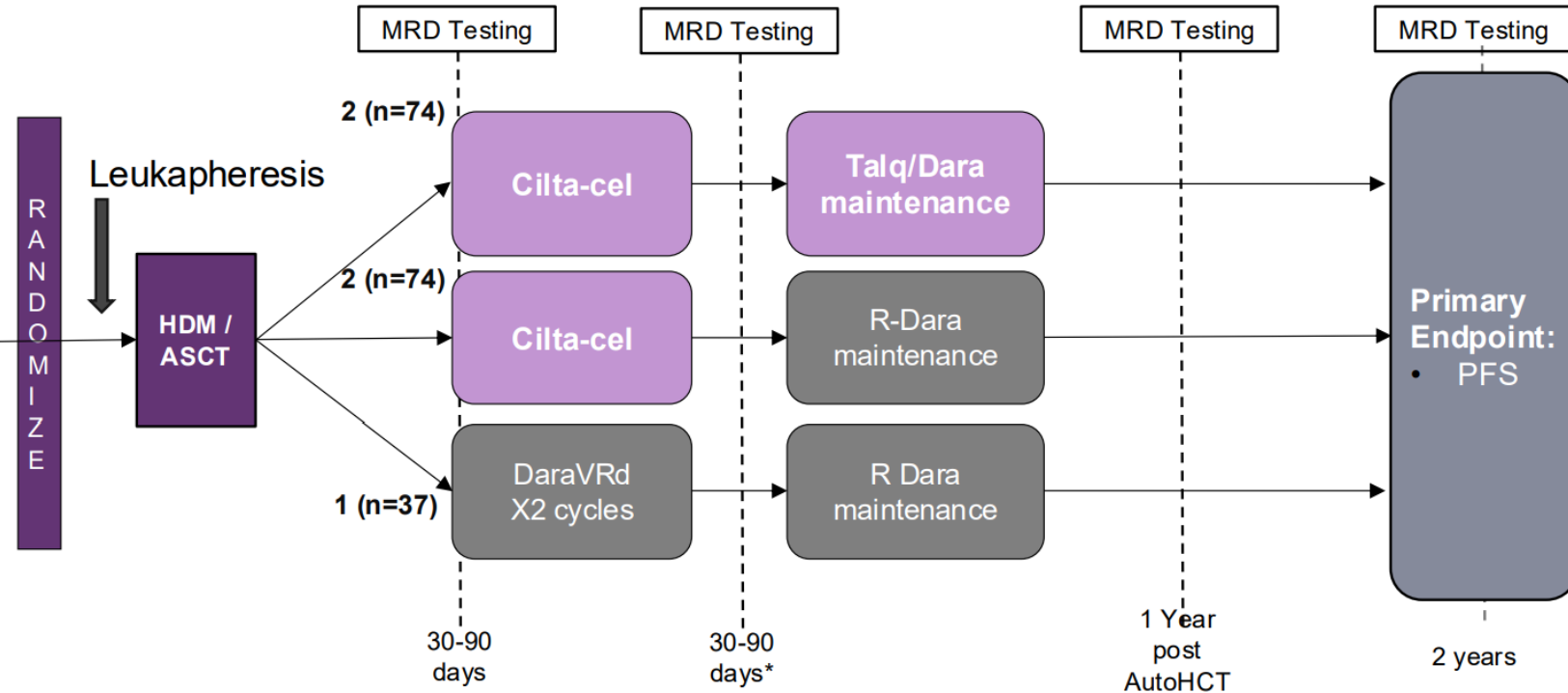
ASCT, autologous stem cell transplant; CR, complete response; IMiD, immunomodulatory drug; MRD, minimal residual disease; NDMM, newly diagnosed multiple myeloma; PFS, progression free survival; PI, proteasome inhibitor; PR, partial response; sCR, stringent complete response, VGPR, very good partial response;

TRIUMpH Trial: Phase 3 US BMT Collaborative Study in Newly Diagnosed High-Risk Multiple Myeloma

Patient Selection

- Revised ISS-3
- Revised ISS-2 with:
 - FISH for t(4;14), t(14;16), t(14;20), Del17p, ≥3 copies of chr 1q21
 - Genomic: GEP70hI, SKY92hI, biallelic TP53 deletion, c-Myc rear / mut
 - Imaging: >3 FDG avid bone lesions on PET-CT
- Extra-medullary disease at diagnosis
- Circulating plasma cells >5% at diagnosis
- Minimum DaraRVD X4 cycles
- Available mobilized peripheral hematopoietic cell graft.

N=185



CARTITUDE-5

- The randomized phase 3 CARTITUDE-5 study (NCT04923893) will compare the efficacy of VRd induction followed by cilta-cel versus VRd induction followed by Rd maintenance in pts with NDMM for whom ASCT is not planned as initial therapy

Key Eligibility Criteria

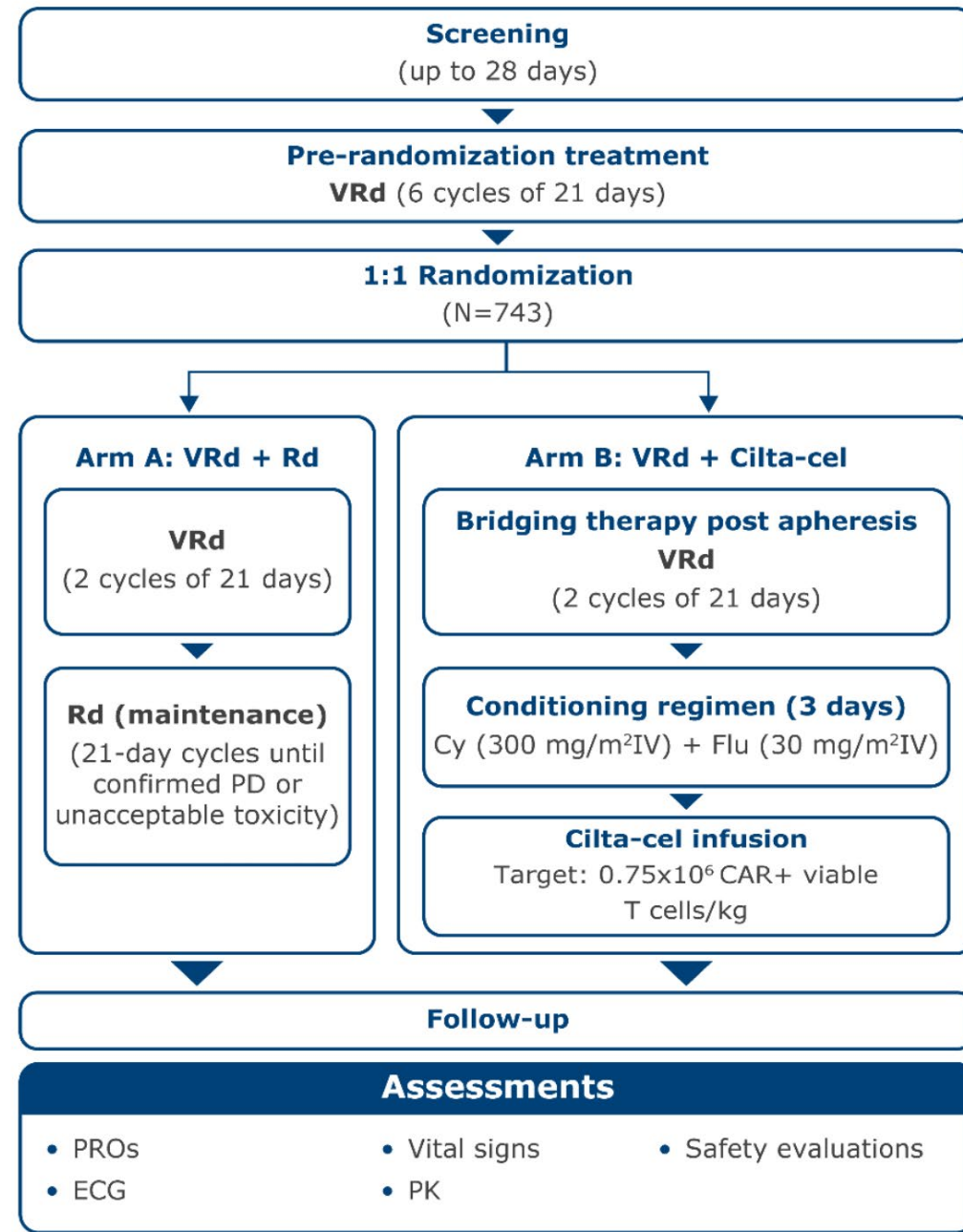
- MM per IMWG criteria
- ECOG PS 0 or 1
- Measurable disease
- Not considered for HDCT with ASCT
- No prior BCMA therapy
- Clinical laboratory values of:
 - Hb ≥ 8.0 g/dL^a
 - Platelets $\geq 75 \times 10^9/L$
 - ALC $\geq 0.3 \times 10^9/L$
 - ANC $\geq 1.0 \times 10^9/L^b$
 - ALT/AST $\leq 3 \times \text{ULN}$
 - eGFR ≥ 40 mL/min/1.73 m²
 - Total bilirubin $\leq 2 \times \text{ULN}^c$

Primary Outcome

- PFS

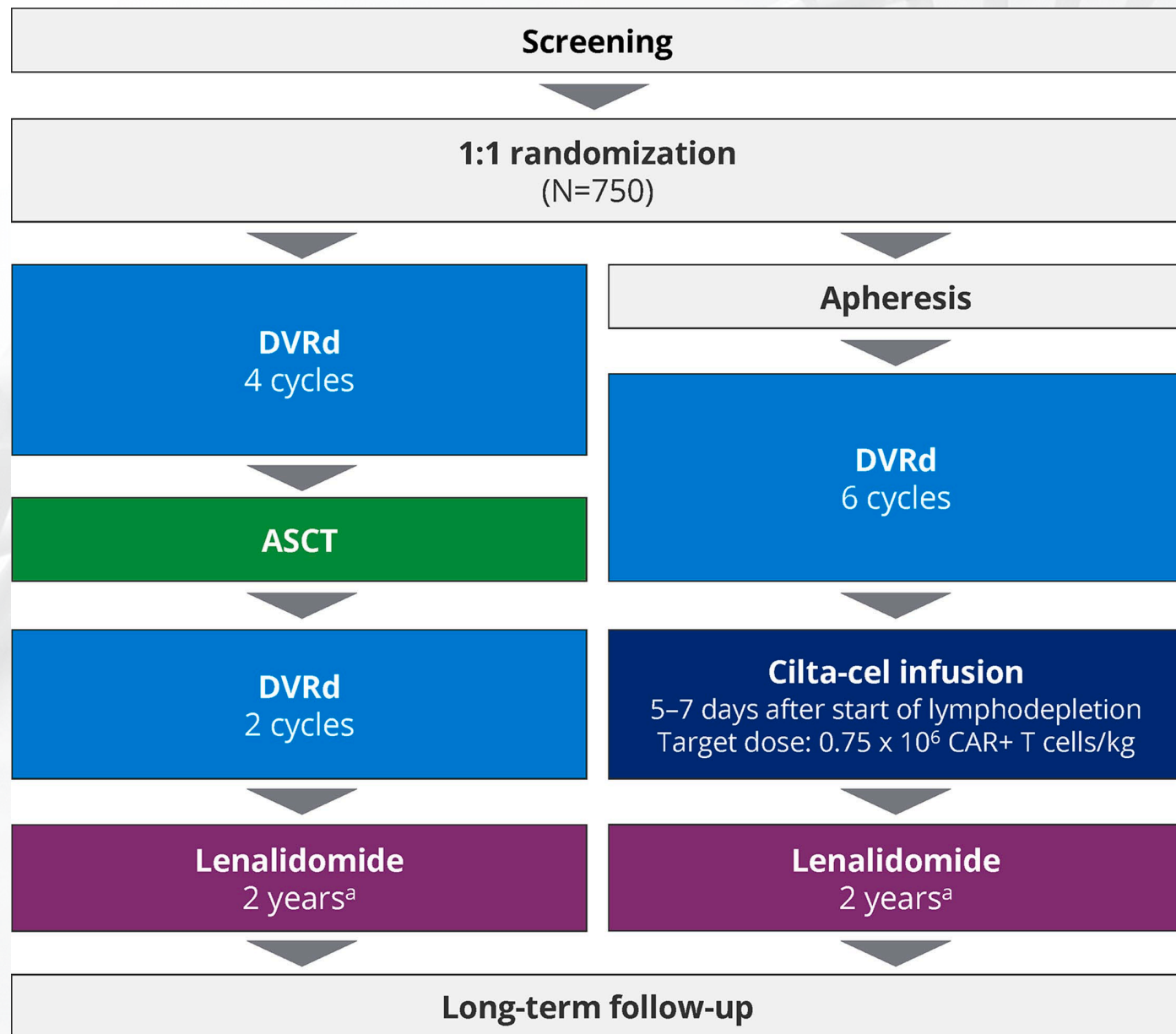
Key Secondary Outcomes

- Sustained MRD-negative CR^d
- MRD-negative CR at 9 months
- Overall MRD-negative CR
- OS
- CR or better
- PFS2
- Time to next antimyeloma therapy
- Safety



CARTITUDE-6

- Randomized, open-label, global, multicenter, phase 3 *EMagine/ CARTITUDE-6* study (EMN28/ 68284528MMY3005; NCT05257083)
- To compare the efficacy of DVRd followed by cilta-cel and lenalidomide versus DVRd followed by ASCT, DVRd, and lenalidomide



^aPatients benefiting from therapy have the option to continue lenalidomide therapy until progressive disease per investigator's discretion after benefit-risk assessment and review by the medical monitor.



Myeloma Team

Sagar Lonial
Jonathan L. Kaufman
Lawrence H. Boise
Madhav Dhodapkar
Nisha Joseph
Craig Hofmeister
Vikas Gupta
Nishi Shah
Richa Parikh
Donald Harvey
Mala Shanmugam
Shannon Matulis
Benjamin Barwick
Manoj Bhasin
Joel Andrews
Rosie Pruitt
Rachael Morffi
Charise Gleason

Clinical Research team

Pauline Newlands
Bryan Burton
Adam Burgess
Shawn Reece
Patrick Mazzeo

Research labs

Boise lab
Lonial lab
Shanmugam lab
Bhasin lab
Gupta lab

Myeloma Patients

