



# EMORY WINSHIP CANCER INSTITUTE

A Cancer Center Designated by  
the National Cancer Institute



EMORY  
UNIVERSITY  
SCHOOL OF  
MEDICINE

## Induction therapy and Myeloma

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# Scope of the Problem

- In 2022, 34,470 new cases will be diagnosed (19,100 in men and 15,370 in women) and 12,640 deaths are expected to occur (7090 in men and 5550 in women)<sup>[a]</sup>
- In 2019, there were an estimated 159,787 people living with myeloma in the United States<sup>[b]</sup>  
(5-year survival rate 57.9%, median age at diagnosis: 69 years and median age of death is 75 years<sup>[b]</sup>)
- Prognosis has significantly improved, with median survival estimated at 12 years<sup>[c,d]</sup>
- Disease is sensitive to treatment, but curable only in a small subset

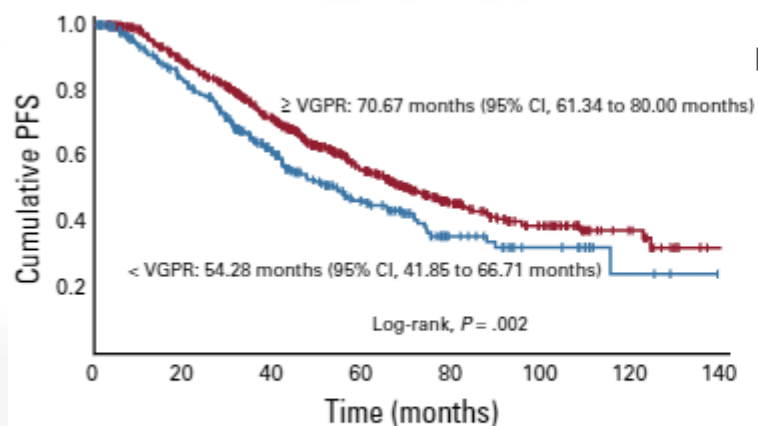
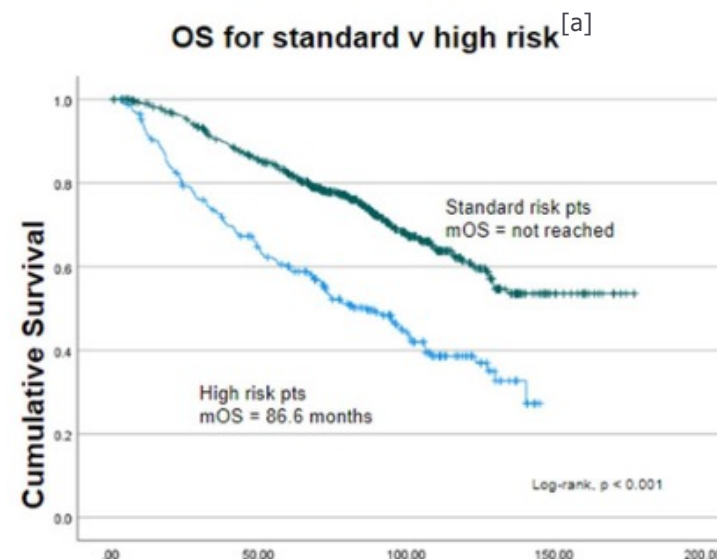
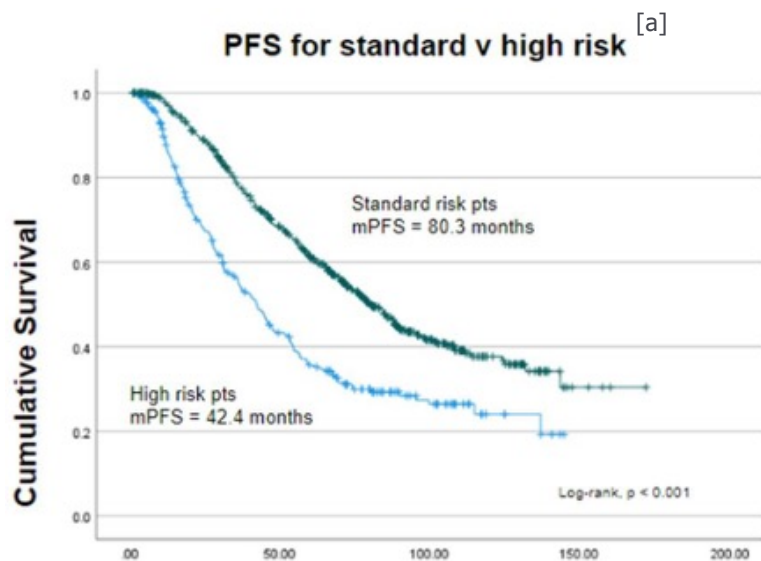
• a. American Cancer Society. Accessed August 19, 2022. [www.cancer.org/research/cancer-facts-statistics/all-cancer-facts-figures/cancer-facts-figures-2022.html](http://www.cancer.org/research/cancer-facts-statistics/all-cancer-facts-figures/cancer-facts-figures-2022.html);

b. SEER 12. Accessed August 19, 2022. <https://seer.cancer.gov/statfacts/html/mulmy.html>; c. Parikh R, et al. J Clin Oncol. 2022;40(16\_suppl):8061; d. Joseph NS, et al. J Clin Oncol. 2020;38:1928-1937.

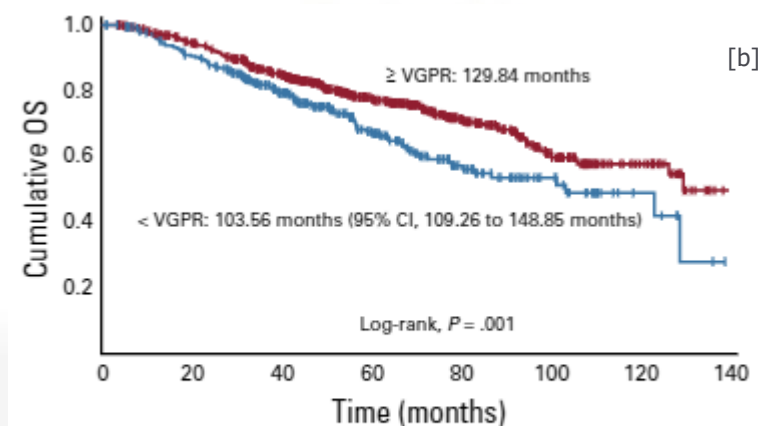
# Risk Stratification

- High risk
  - Deletion 17p  $\geq$ 20% and/or p53 mutation
  - Deletion 1p and +1q (1 extra copy of 1q not high risk alone)
  - High risk 14q32 trans and (+1q or deletion 1p)
- Standard risk
  - Hyperdiploidy
  - t(11;14)

# Current: RVD Induction Therapy (N = 1000 Patients)



No. at risk:							
≥ VGPR	506	322	164	78	33	10	1
< VGPR	207	109	51	20	9	2	0

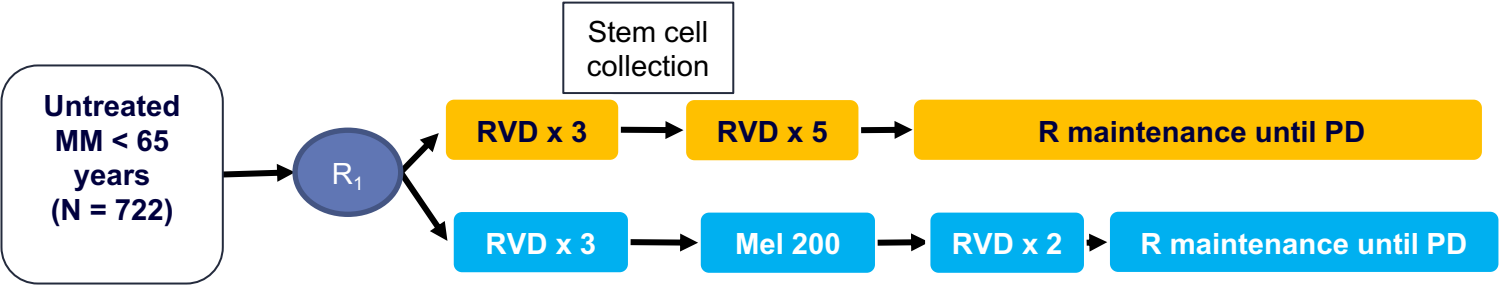


No. at risk:							
≥ VGPR	564	408	254	143	61	17	1
< VGPR	246	158	86	41	18	5	0

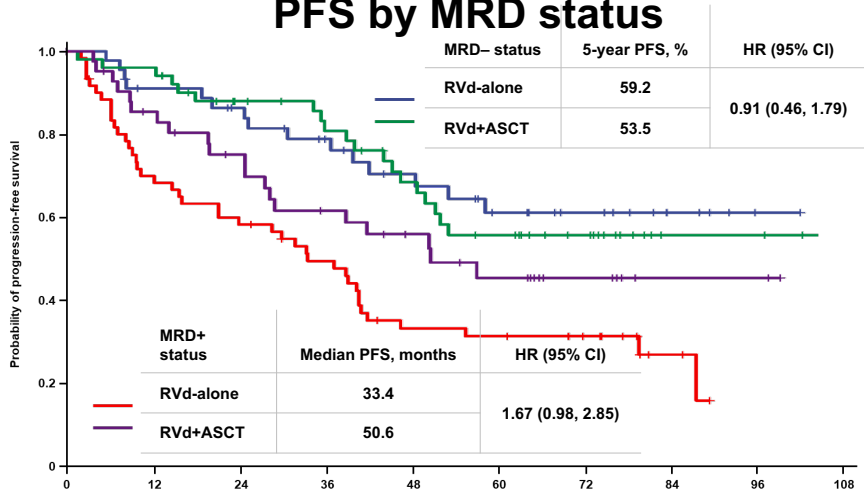
- a. Parikh R, et al. J Clin Oncol. 2022;40(16\_suppl):8061; b. Joseph NS, et al. J Clin Oncol. 2020;38:1928-1937.



# DETERMINATION (N = 722)

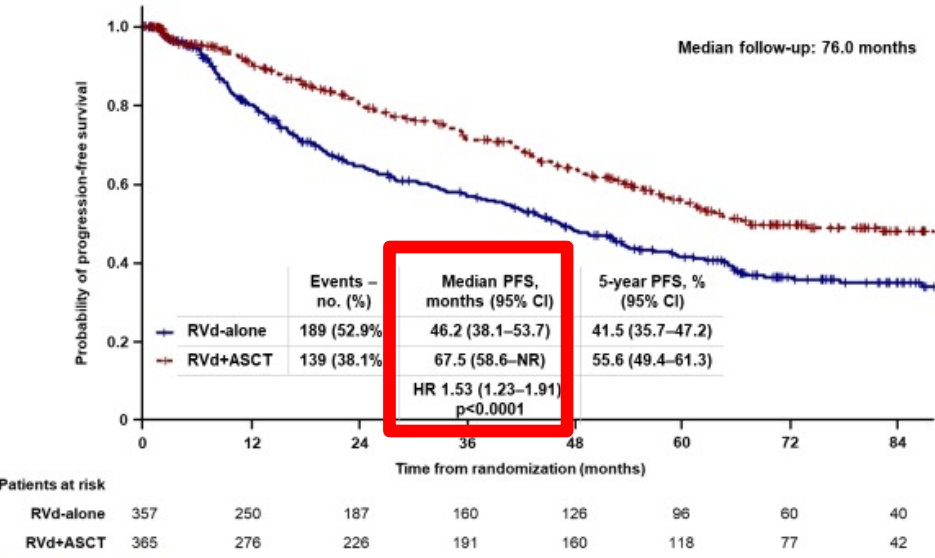


### PFS by MRD status

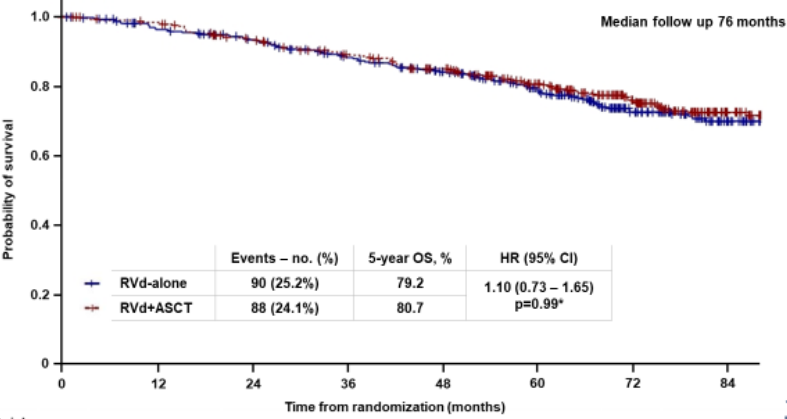


Patients at risk	Time since MRD evaluation at start of maintenance (months)									
	0	12	24	36	48	60	72	84	96	108
RVD-alone, MRD-	43	37	33	28	22	16	11	5	1	0
RVD+ASCT, MRD-	49	47	37	32	25	19	13	3	3	0
RVD-alone, MRD+	65	39	32	25	15	14	10	3	0	0
RVD+ASCT, MRD+	41	32	26	20	15	11	6	2	2	0

### PFS



### OS



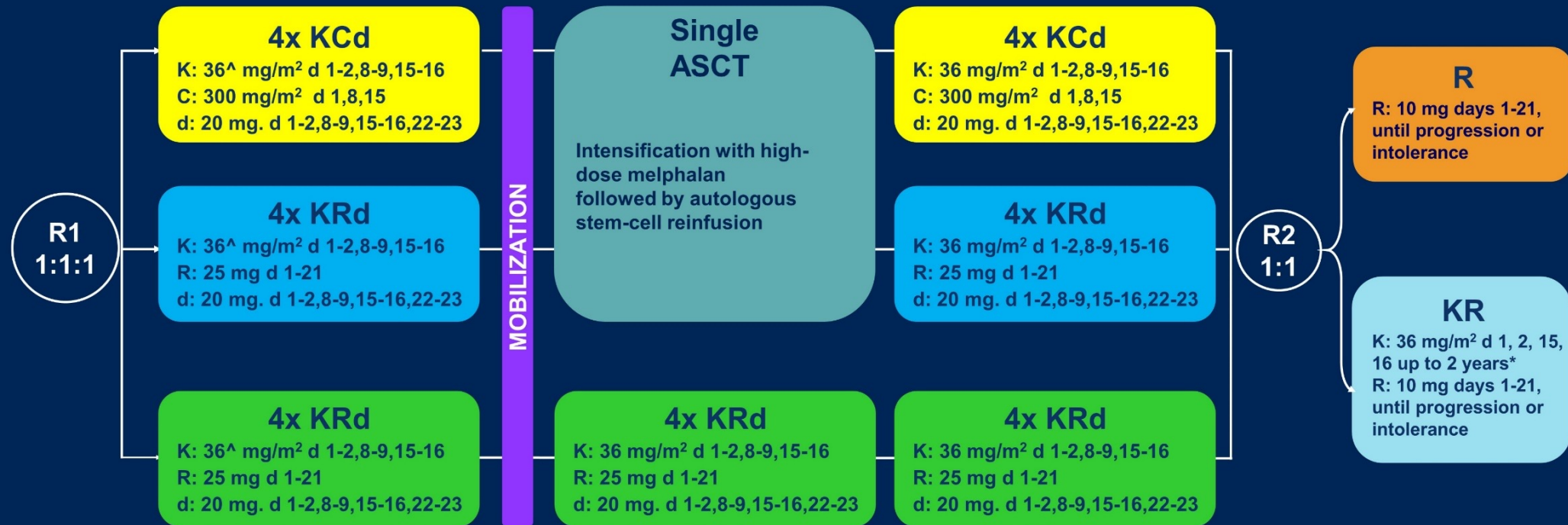
ASCT, autologous stem cell transplant.  
Richardson P, et al. J Clin Oncol. 2022;40(17\_suppl): LBA4.

\*p-values adjusted using Bonferroni's correction to control overall family-wise error rate for secondary outcomes

# FORTE Trial (N = 474)

## Trial design

474 NDMM patients, transplant-eligible and younger than 65 years



<sup>^</sup>20 mg/m<sup>2</sup> on days 1-2, cycle 1 only. \*Carfilzomib 70 mg/m<sup>2</sup> days 1, 15 every 28 days up to 2 years for patients that have started the maintenance treatment from 6 months before the approval of Amendment 5.0 onwards.

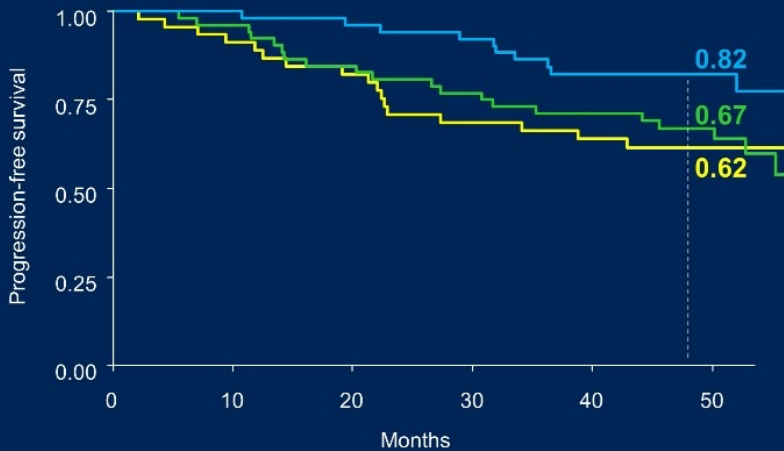
NDMM, newly diagnosed multiple myeloma; R1, first randomization (induction/consolidation treatment); R2, second randomization (maintenance treatment); ASCT, autologous stem-cell transplantation; K, carfilzomib; R, lenalidomide; C, cyclophosphamide; d, dexamethasone; KCd\_ASCT, KCd induction-ASCT-KCd consolidation; KRd\_ASCT, KRd induction-ASCT-KRd consolidation; KRd12, 12 cycles of KRd.

- NDMM, newly diagnosed multiple myeloma; R1, first randomization (induction/consolidation treatment); R2, second randomization (maintenance treatment).  
Gay F, et al. J Clin Oncol. 2021;39(suppl 15):8002.

# After R1: PFS Benefit With KRd/ASCT

- PFS benefit observed with KRd/ASCT vs KCd/ASCT or KRd12
- Median follow-up from R1: 51 months

**Standard risk  
(N=153)**

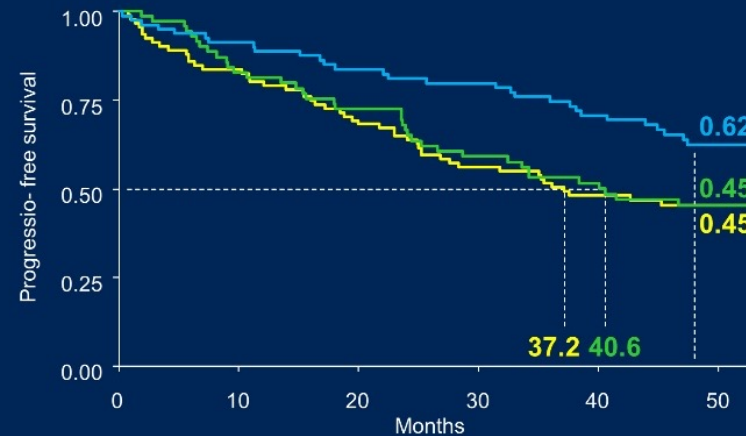


KRd\_ASCT vs. KCd\_ASCT: HR 0.44, p=0.04

KRd\_ASCT vs. KRd12: HR 0.46, p=0.04

KRd12 vs. KCd\_ASCT : HR 0.96, p=0.9

**High risk  
(N=243)**

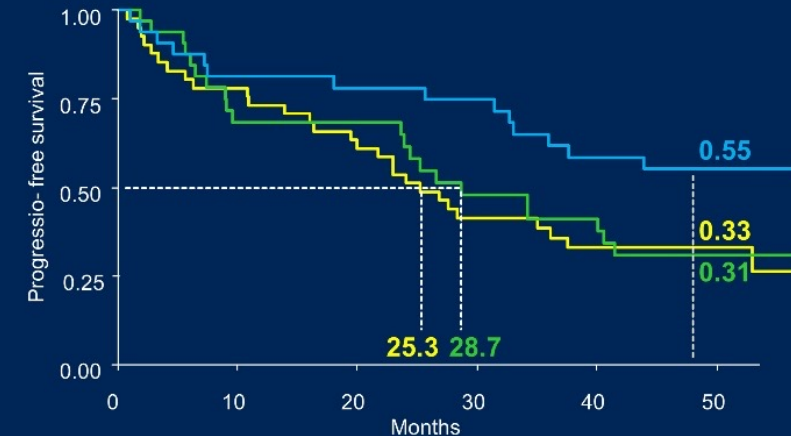


KRd\_ASCT vs. KCd\_ASCT: HR 0.57, p=0.01

KRd\_ASCT vs. KRd12: HR 0.6, p=0.04

KRd12 vs. KCd\_ASCT: HR 0.95, p=0.8

**Double hit  
(N=105)**

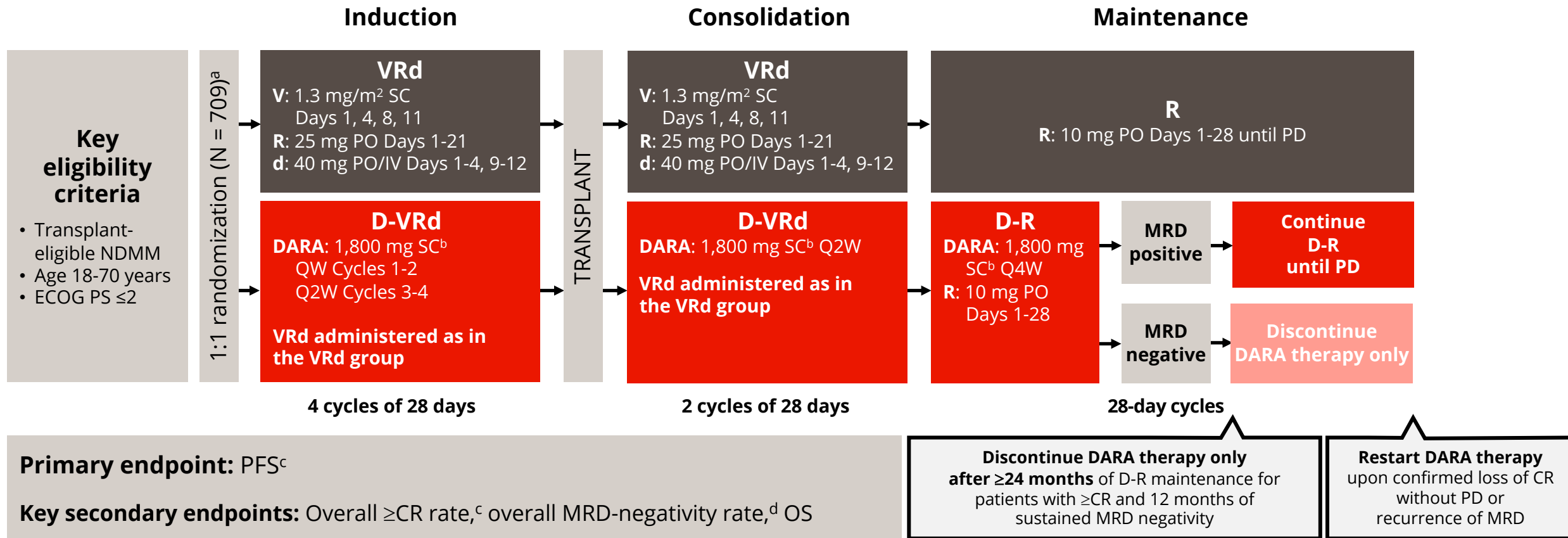


KRd\_ASCT vs. KCd\_ASCT: HR 0.49, p=0.03

KRd\_ASCT vs. KRd12: HR 0.53, p=0.07

KRd12 vs. KCd\_ASCT: HR 0.91, p=0.75

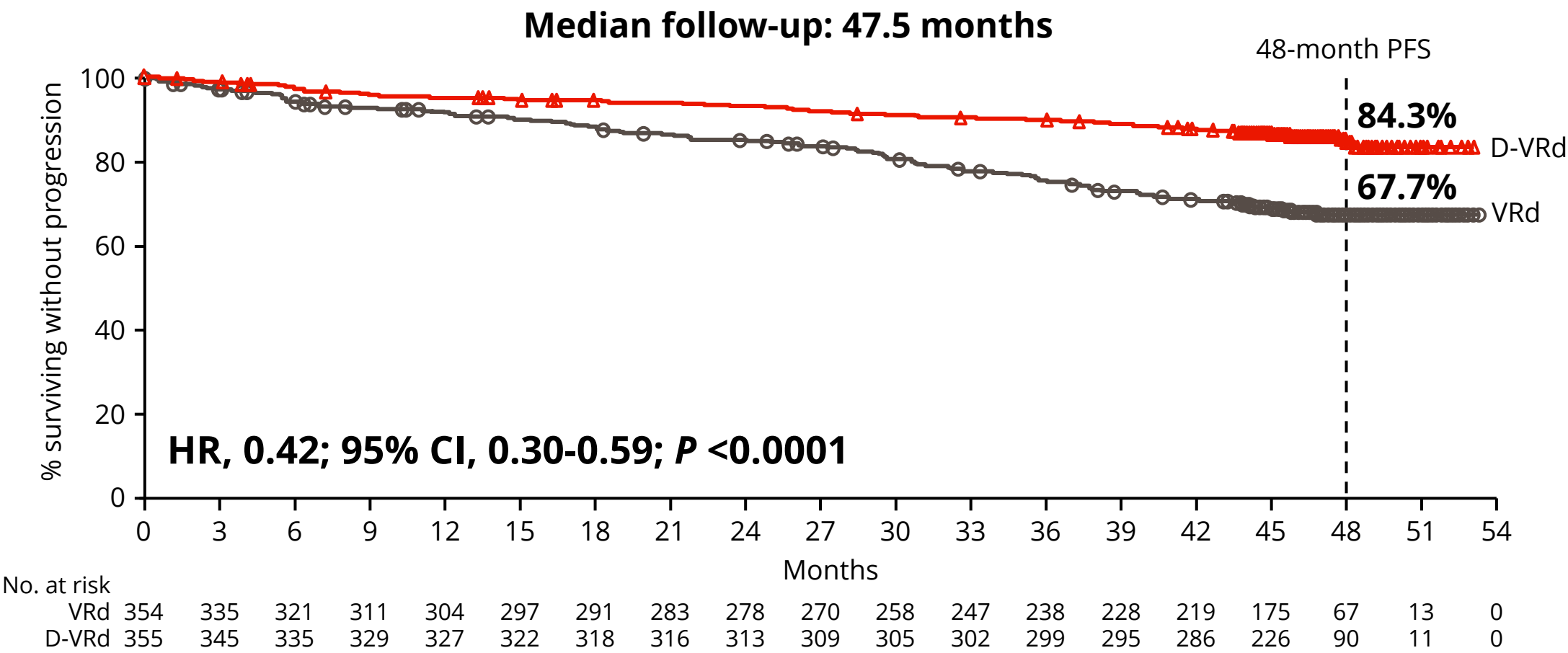
# PERSEUS: Study Design



ECOG PS, Eastern Cooperative Oncology Group performance status; V, bortezomib; SC, subcutaneous; PO, oral; d, dexamethasone; IV, intravenous; QW, weekly; Q2W, every 2 weeks; PD, progressive disease; Q4W, every 4 weeks; MRD, minimal residual disease; OS, overall survival; ISS, International Staging System; rHuPH20, recombinant human hyaluronidase PH20; IMWG, International Myeloma Working Group; VGPR, very good partial response. <sup>a</sup>Stratified by ISS stage and cytogenetic risk. <sup>b</sup>DARA 1,800 mg co-formulated with rHuPH20 (2,000 U/mL; ENHANZE<sup>®</sup> drug delivery technology, Halozyne, Inc., San Diego, CA, USA). <sup>c</sup>Response and disease progression were assessed using a computerized algorithm based on IMWG response criteria. <sup>d</sup>MRD was assessed using the clonoSEQ assay (v.2.0; Adaptive Biotechnologies, Seattle, WA, USA) in patients with ≥VGPR post-consolidation and at the time of suspected ≥CR. Overall, the MRD-negativity rate was defined as the proportion of patients who achieved both MRD negativity (10<sup>-5</sup> threshold) and ≥CR at any time.



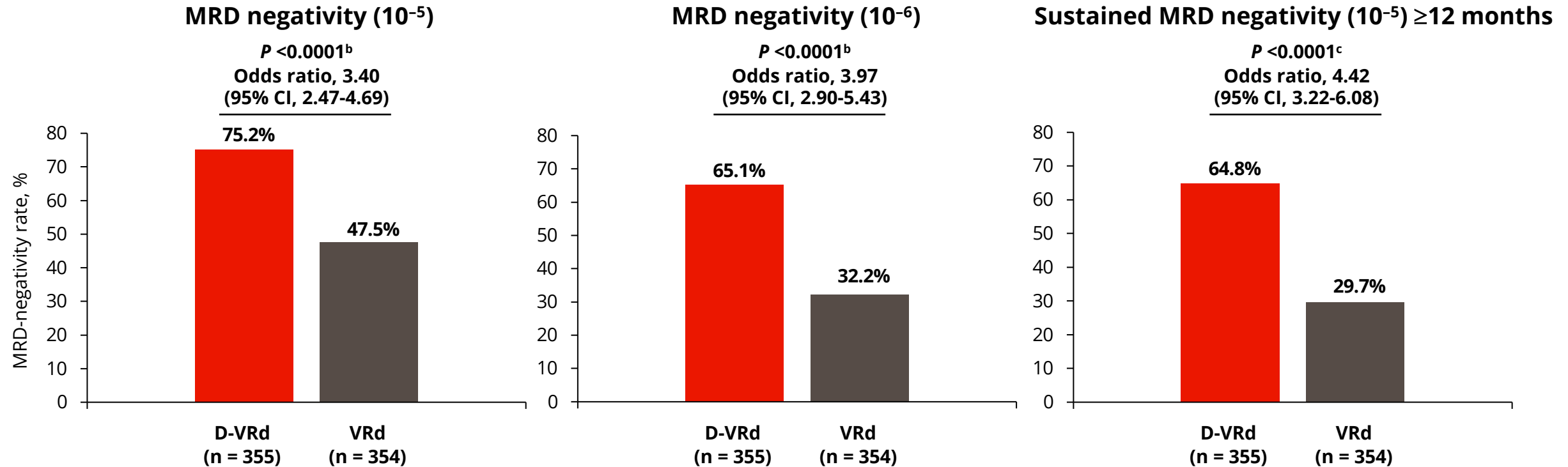
# PERSEUS: Progression-free Survival



• 58% reduction in the risk of progression or death in patients receiving D-VRd

HR, hazard ratio; CI, confidence interval.

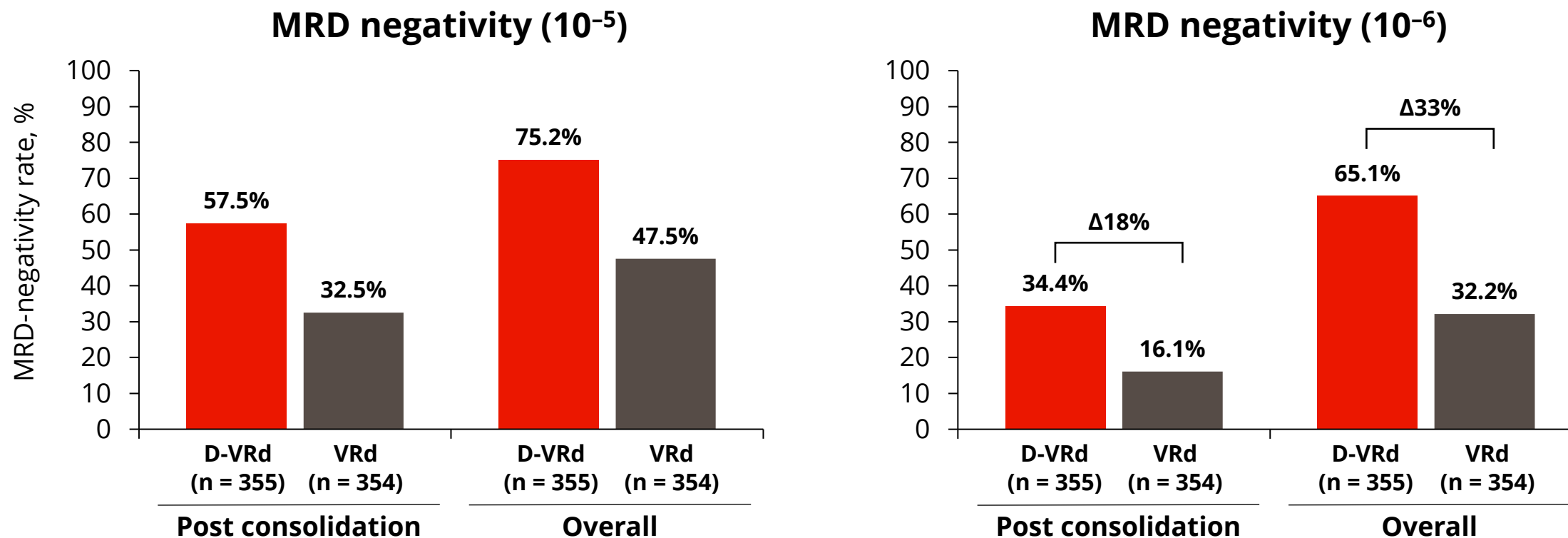
# PERSEUS: Overall and Sustained MRD-negativity Rates<sup>a</sup>



- Deep and durable MRD negativity was achieved with D-VRd
- 64% (207/322) of patients receiving maintenance in the D-VRd group discontinued DARA after achieving sustained MRD negativity per protocol<sup>d</sup>

<sup>a</sup>MRD-negativity rate was defined as the proportion of patients who achieved both MRD negativity and  $\geq$ CR. MRD was assessed using bone marrow aspirates and evaluated via next-generation sequencing (clonoSEQ assay, version 2.0; Adaptive Biotechnologies, Seattle, WA). <sup>b</sup>P values were calculated with the use of the stratified Cochran-Mantel-Haenszel chi-squared test. <sup>c</sup>P value was calculated with the use of Fisher's exact test. <sup>d</sup>After  $\geq 24$  months of maintenance therapy, DARA was discontinued in patients who achieved  $\geq$ CR and sustained MRD negativity ( $10^{-5}$ ) for  $\geq 12$  months.

# PERSEUS: MRD-negativity Rates<sup>a</sup> Over Time



- Rates of MRD negativity improved during maintenance
- The absolute difference between D-VRd and VRd widened over time and is most evident at the deeper threshold of  $10^{-6}$

<sup>a</sup>MRD-negativity rate was defined as the proportion of patients who achieved both MRD negativity and  $\geq$ CR. MRD was assessed using bone marrow aspirates and evaluated via next-generation sequencing (clonoSEQ assay, version 2.0; Adaptive Biotechnologies, Seattle, WA).

# Iskea Study Design

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

## Induction *Four 28-day cycles*

### 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)

R

### 4× KRd

**K:** 20 mg/m<sup>2</sup> IV dd 1 cc 1 only;  
followed by 56 mg/m<sup>2</sup> IV dd 8,15 cc 1 and dd 1,8,15 cc 2-4  
**R:** 25 mg PO daily dd 1-21  
**d:** 40 mg PO dd 1,8,15,22

### 4× Isa-KRd

**Isa:** 10 mg/kg IV dd 1,8,15,22 cc 1, followed by 10 mg/kg IV dd 1 and 15 cc 2 to 4.  
**K:** 20 mg/m<sup>2</sup> IV dd 1 cc 1 only;  
followed by 56 mg/m<sup>2</sup> IV dd 8,15 cc 1 and dd 1,8,15 cc 2-4  
**R:** 25 mg PO daily dd 1-21  
**d:** 40 mg PO dd 1,8,15,22

## MOBILIZATION

**Cy:** 2-3 g/m<sup>2</sup>

*followed by*

**G-CSF**

for stem-cell collection

*and*

## MEL200-ASCT

**MEL:** 200 mg/m<sup>2</sup>

*followed by*

**ASCT**

## Post-ASCT consolidation

### 4× KRd

**K:** 56 mg/m<sup>2</sup> IV dd 1,8,15 cc 5-8  
**R:** 25 mg PO daily dd 1-21  
**d:** 40 mg PO dd 1,8,15,22

### 4× Isa-KRd

**Isa:** 10 mg/kg IV dd 1,15 cc 5-8  
**K:** 56 mg/m<sup>2</sup> IV dd 1,8,15 cc 5-8  
**R:** 25 mg PO daily dd 1-21  
**d:** 40 mg PO dd 1,8,15,22

## Primary endpoint:

MRD negativity by NGS after post-ASCT consolidation

## Key secondary endpoints:

MRD negativity after induction;  
PFS

## Other secondary endpoints:

Sustained MRD negativity

MRD by NGS

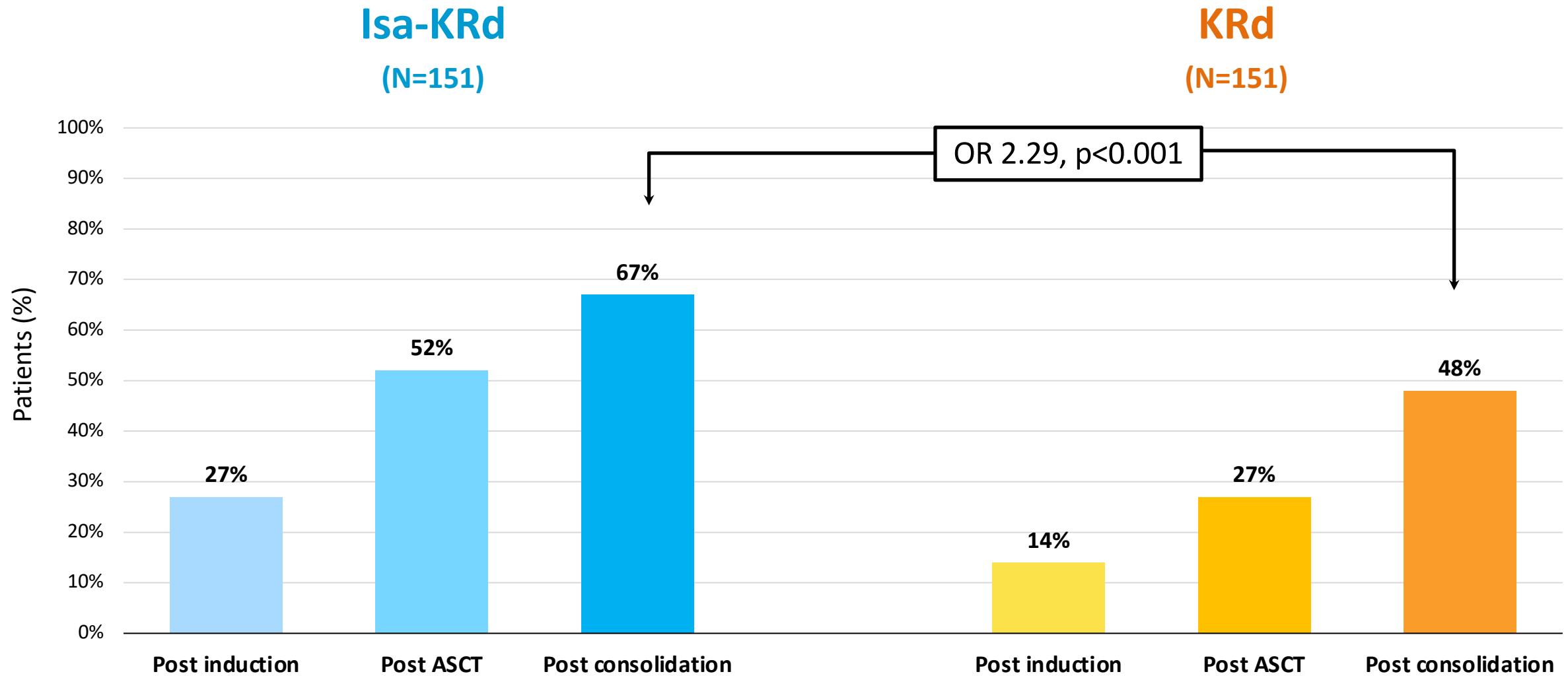


American Society of Hematology

TE, transplant-eligible; NDMM, newly diagnosed multiple myeloma; FISH, fluorescence *in situ* hybridization; del, deletion; t, translocation; ISS, International Staging System stage; R, randomization; Isa, isatuximab; K, carfilzomib; R, lenalidomide; d, dexamethasone; IV, intravenous; dd, days; cc, cycles; PO, orally; Cy, cyclophosphamide; G-CSF, granulocyte colony-stimulating factor; MEL, melphalan; ASCT, autologous stem-cell transplantation; MRD, minimal residual disease; NGS, next-generation sequencing; PFS, progression-free survival.

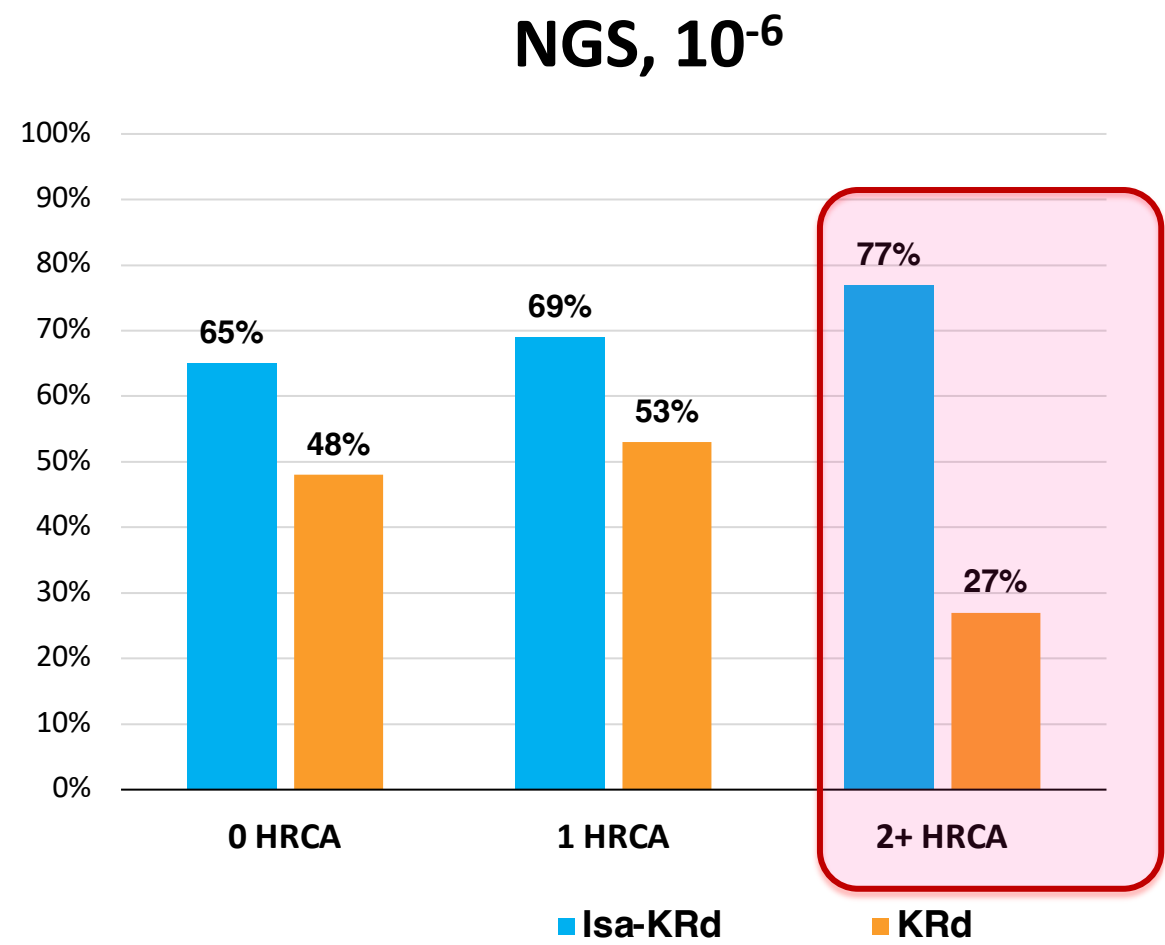
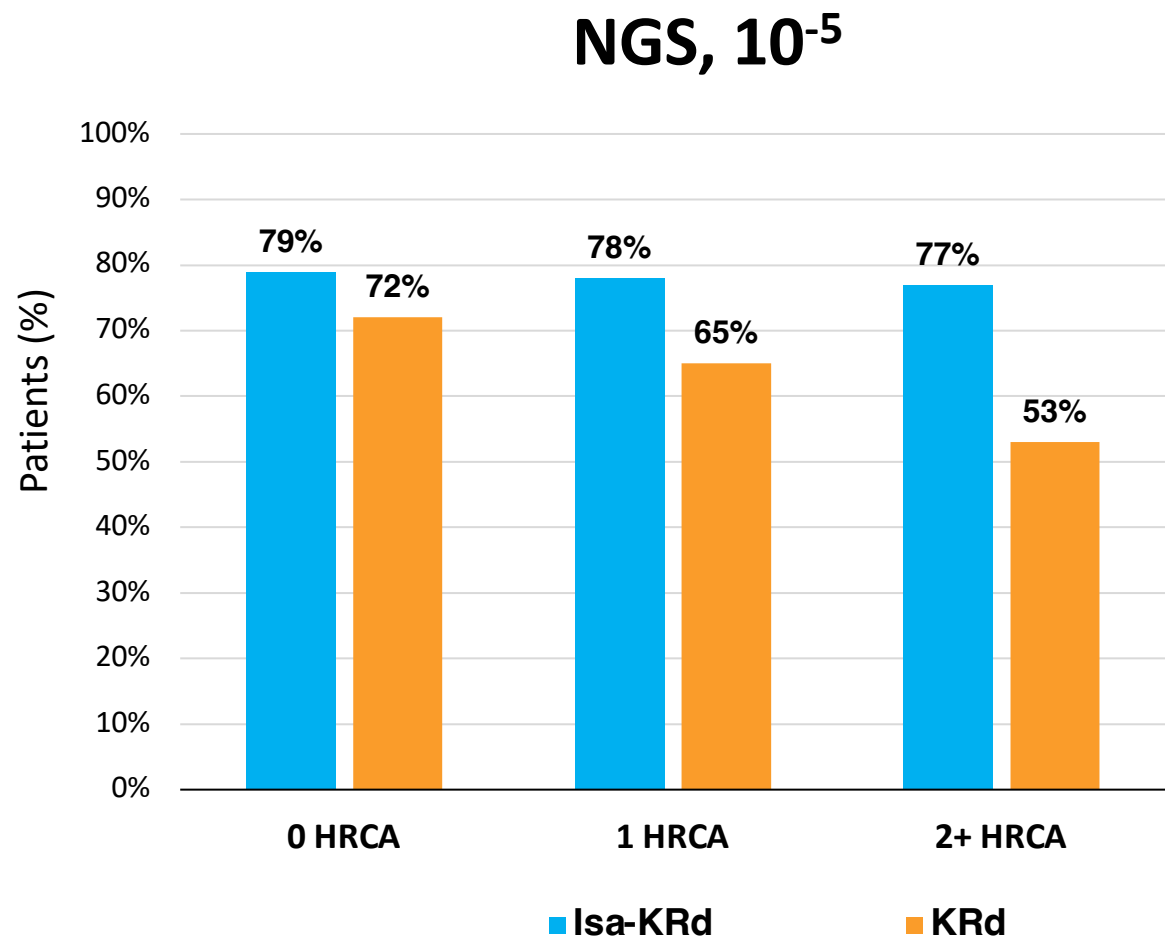


# MRD negativity rates improved over time ( $10^{-6}$ )



# Post-consolidation MRD negativity by NGS

## Subgroup analysis by cytogenetic risk



1 HRCA was defined as the presence of one of the following high-risk cytogenetic abnormalities: *del*(17p13.1), *t*(4;14) (*p*16.3;*q*32.3), *t*(14;16) (*q*32.3;*q*23), *gain*(1q21), or *amp*(1q21); 2+ HRCA was defined as the presence of at least two high-risk cytogenetic abnormalities.



# STUDY DESIGN

**No consolidation**  
**Risk-stratified maintenance approach**  
**No Dara-based maintenance**

## Key eligibility criteria:

- Transplant-eligible newly diagnosed standard risk or high risk multiple myeloma
- Received either RVd or D-RVd induction

### RVd

- Len: 25 mg on days 1-14/21 days
- Bort: 1.3 mg/m<sup>2</sup> on days 1,4,8,11/21 days
- Dexamethasone 40 mg days 1,8,15/21 days

### D-RVd

- Dara: IV or SQ on days 1,8,15/21 days for C1-4 and day 1 only if C5-6 given
- Len: 25 mg on days 1-14/21 days
- Bort: 1.3 mg/m<sup>2</sup> on days 1,4,8,11/21 days
- Dexamethasone 40 mg days 1,8,15/28 days

ASCT

Standard-risk:  
Lenalidomide  
maintenance until PD

High-risk\*:  
PI/IMiD maintenance x  
3 years or PD

## Primary end-point:

- ≥Complete Response Rate (≥CR rate)

## Secondary end-points:

- ≥VGPR
- PFS
- OS
- MRD (-) rate\*\*

\* High risk defined as presence of del(17p), t(4;14), t(14;16) or complex karyotype at diagnosis

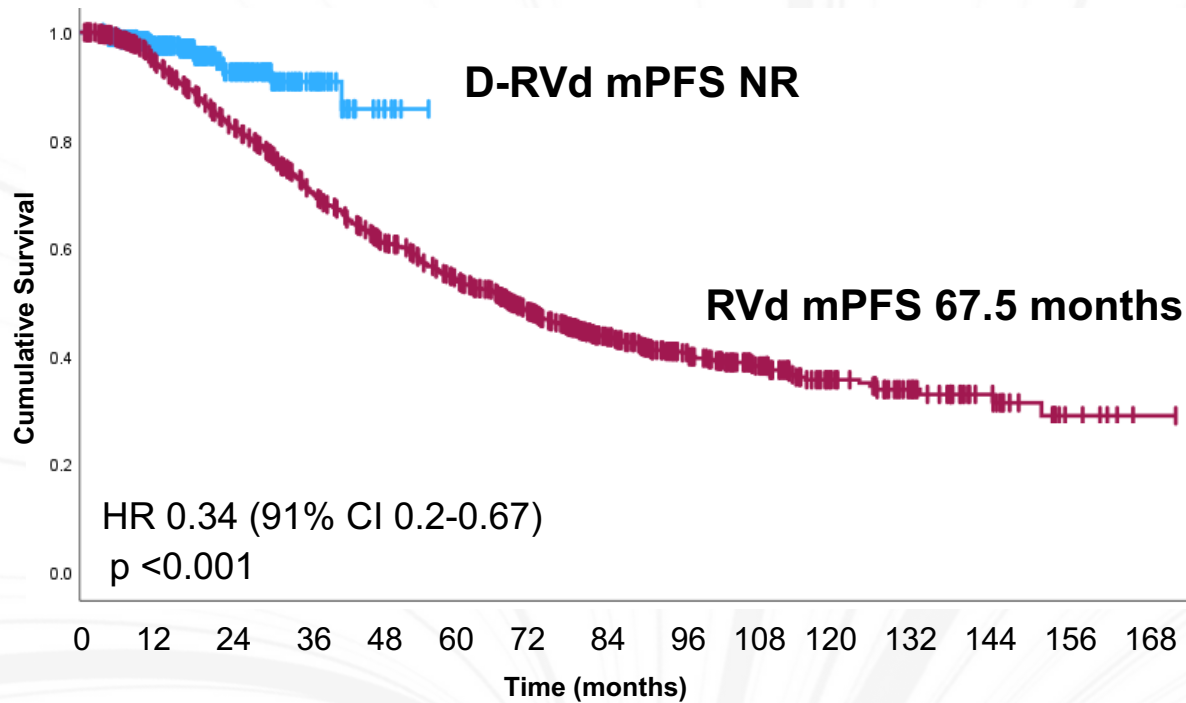
\*\* MRD assessment in progress

RVd: lenalidomide, bortezomib, dexamethasone; D-RVd: daratumumab, lenalidomide, bortezomib, dexamethasone; ASCT: Autologous Stem Cell Transplant; PFS: Progression Free Survival; ≥VGPR: Greater than Very Good Partial Response; CR: Complete Response, ORR: overall response rate; OS: overall Survival, Dara: daratumumab, Len: lenalidomide; Bort: bortezomib; Dex: Dexamethasone; IV: intravenous; SQ: subcutaneous; PD: disease progression

Ajay K. Nooka MD MPH

# SURVIVAL OUTCOMES: OVERALL COHORT

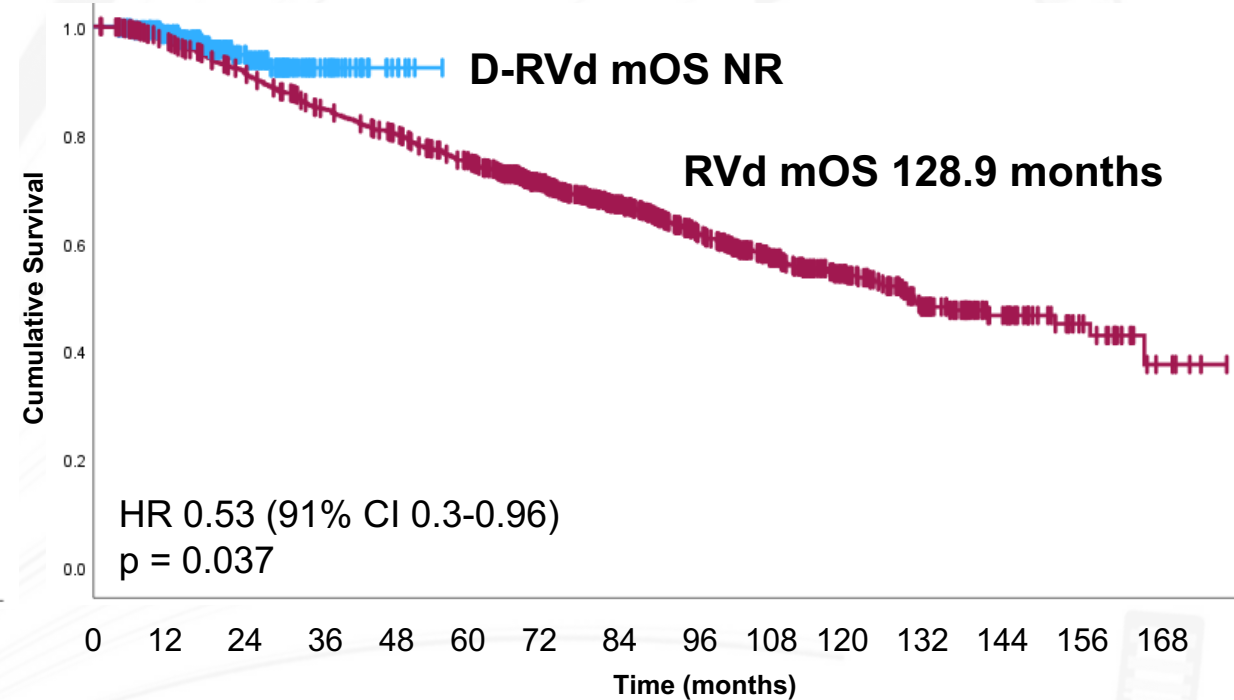
## Progression Free Survival



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

*Median follow up DRVd: 18 months, RVd: 87 months*

## Overall Survival

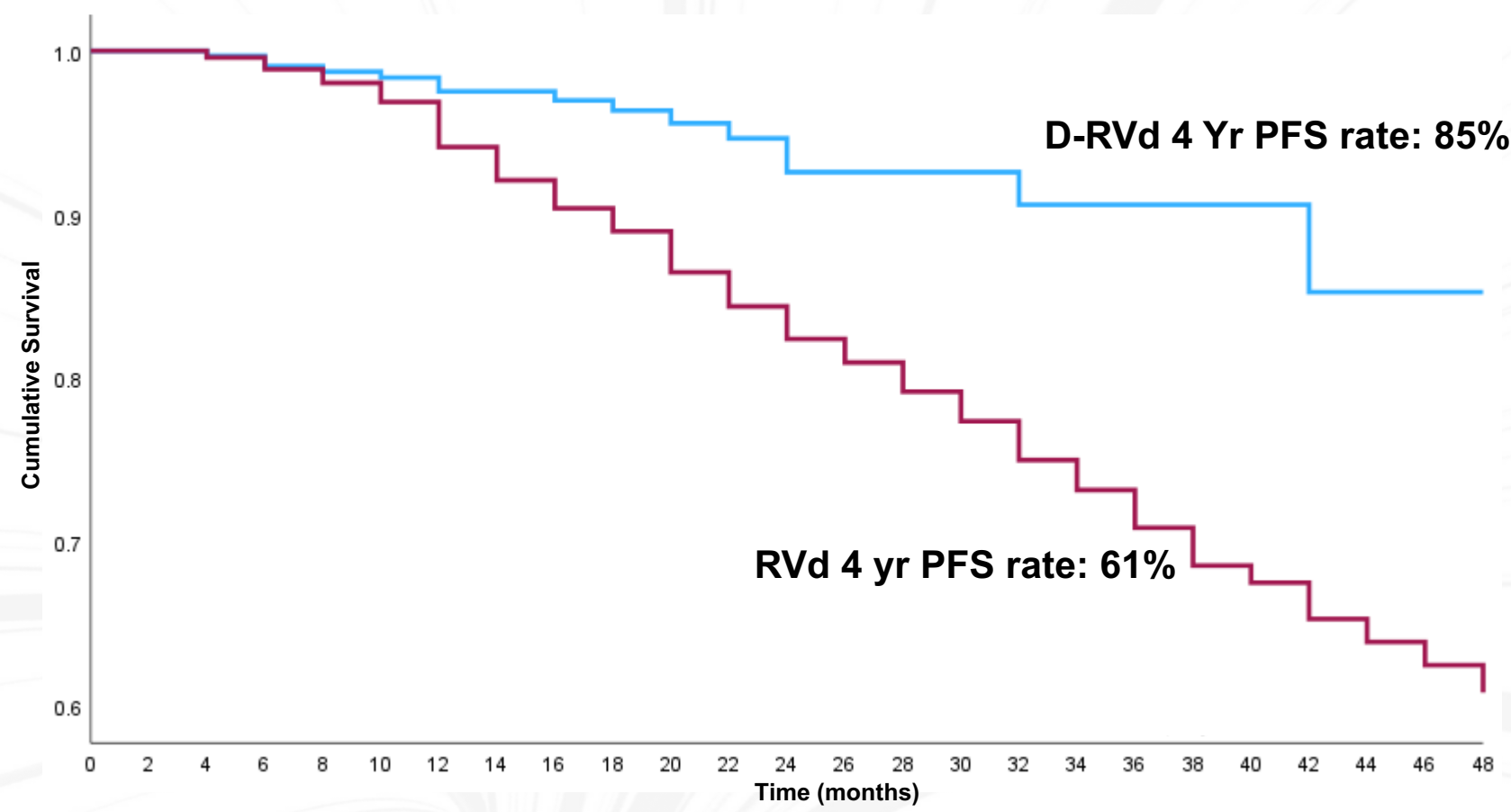


**1-year OS, D-RVd vs RVd: 99% vs 97%**  
**2-year OS, D-RVd vs RVd: 94% vs 91%**

*Median follow up DRVd: 18 months, RVD: 96 months*

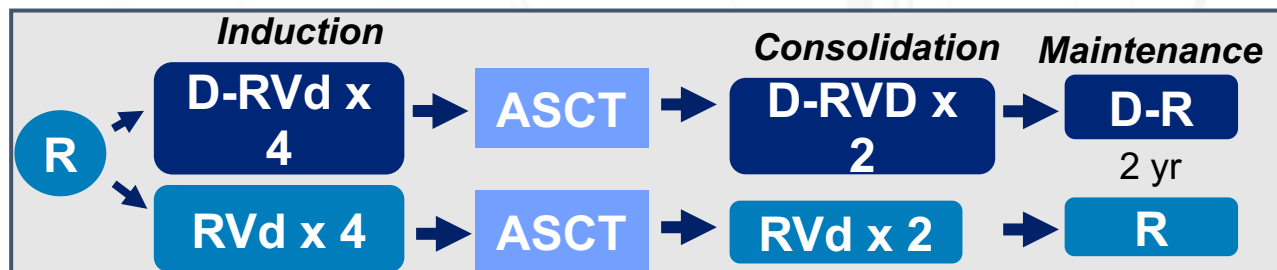


# 4 YEAR PFS RATE, BY TREATMENT ARM

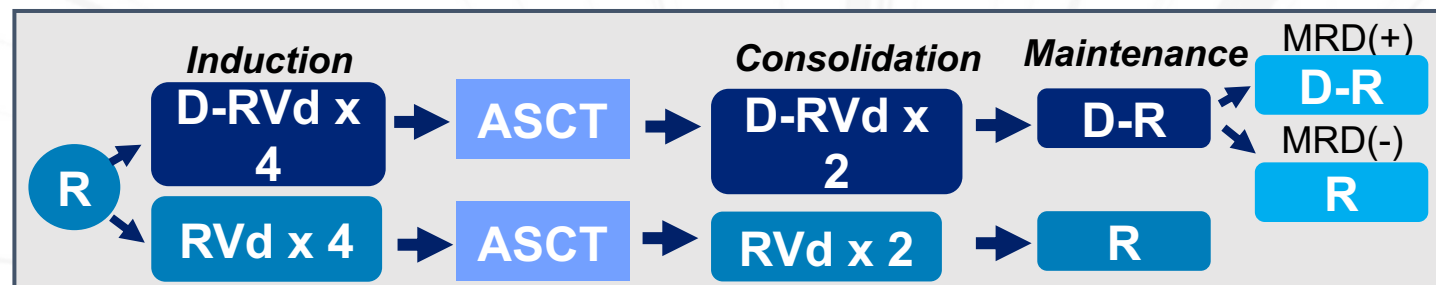


Rate*	D-RVd	RVd
1-year PFS	98%	93%
2-year PFS	93%	82%
3-year PFS	91%	69%
4-year PFS	85%	61%

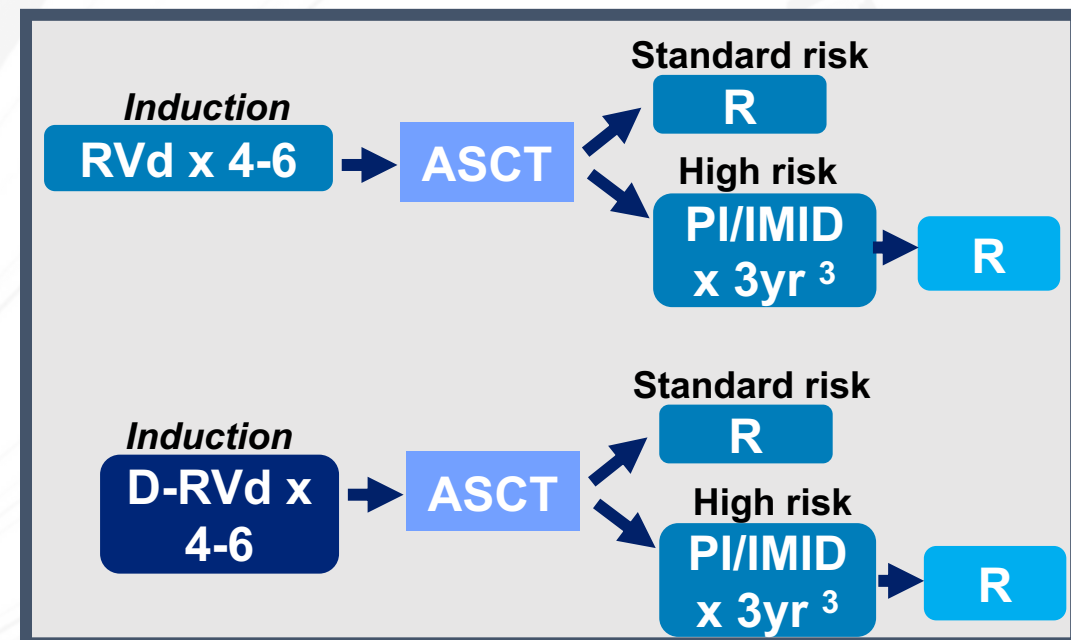
\* All p values <0.001



**GRIFFIN<sup>1</sup>**



**PERSEUS<sup>2</sup>**



	4 year PFS	
	RVD	D-RVD
<b>GRIFFIN<sup>1</sup></b>	70%	87%
<b>PERSEUS<sup>2</sup></b>	67.7%	84.3%
<b>Emory experience</b>	61%	85%

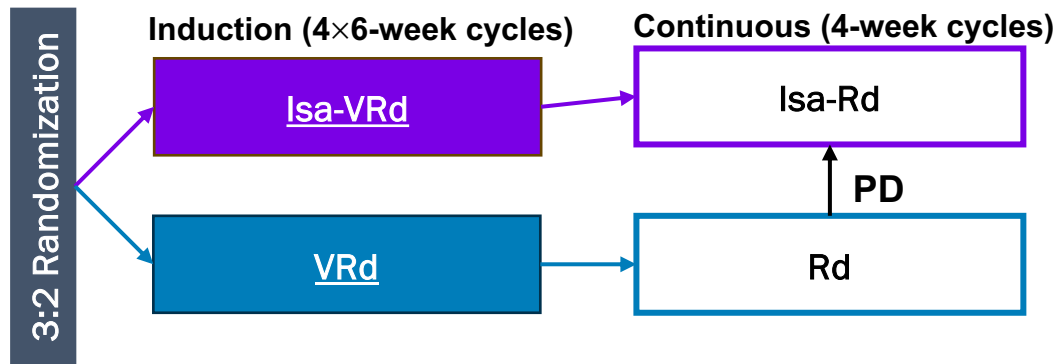
1. Voorhees et al, *Lancet Hem*, 2023; 2. Sonneveld et al, ASH 2023, LBA-1; 3. Nooka et al, *Leukemia* 2014

# IMROZ PHASE 3 TRIAL OF ISA-VRD VS VRD IN TRANSPLANT-INELIGIBLE NDMM: STUDY DESIGN AND PATIENTS

Key Eligibility Criteria

▪ Transplant-ineligible NDMM (TI due to age or comorbidities)

▪ Age ≤80 years



Induction	Isa 10 mg/kg IV; days 1, 8, 15, 22, 29 of cycle 1; days 1, 15, 29 of cycles 2-4 Bort 1.3 m/m <sup>2</sup> SUBQ; days 1, 4, 8, 11, 22, 25, 29, 32 Len 25 mg/day PO, days 1-14, 22-35 (10 mg/day if eGFR 30 to <60 mL/min/1.73 m <sup>2</sup> ) dex 20 mg IV/PO; days 1-2, 4-5, 8-9, 11-12, 15, 22-23, 25-26, 29-30, 32-33 (age ≥75 years: days 1, 4, 8, 11, 15, 22, 25, 29, 32)
Cont.	Isa 10 mg/kg IV; days 1, 15 of cycles 5-17; day 1 of cycles 18+ Len 25 mg/day PO, days 1-21 (10 mg/day if eGFR 30 to <60 mL/min/1.73 m <sup>2</sup> ) dex 20 mg IV/PO; days 1, 8, 15, 22

Primary endpoint: PFS

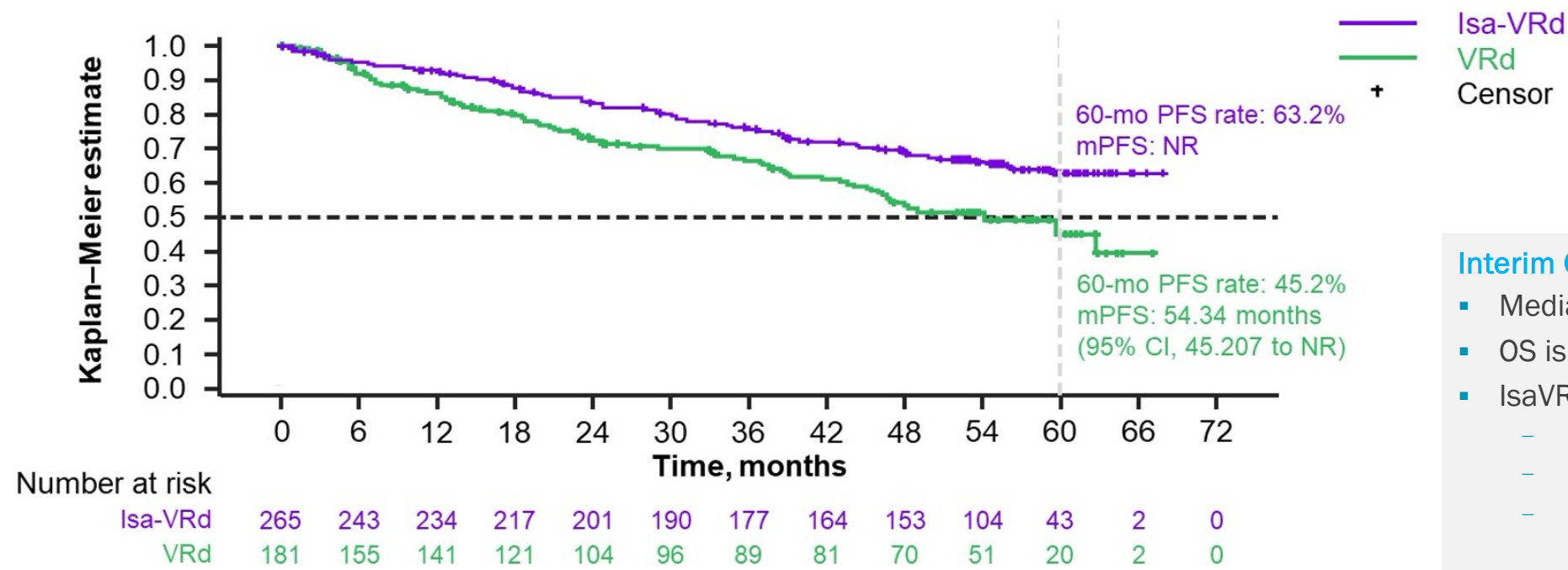
Key secondary endpoints: CR, MRD-neg CR (10<sup>-5</sup>), ≥VGPR, OS

Patient Characteristics (ITT)		Isa-VRd (n=265)	VRd (n=181)
Median age (range), years		72.0 (60-80)	72.0 (55-80)
Age ≥75 years, n (%)		69 (26.0)	57 (31.5)
ECOG PS, n (%)	0	123 (46.4)	79 (43.6)
	1	112 (42.3)	83 (45.9)
	2	29 (10.9)	19 (10.5)
eGFR <60 mL/min/1.73 m <sup>2</sup> , n (%)		66 (24.9)	62 (34.3)
R-ISS stage, n (%)	I or II	234 (88.3)	157 (86.7)
	III	29 (10.9)	21 (11.6)
	Not classified	2 (0.8)	3 (1.7)
Cytogenetic risk, n (%)	Standard	207 (78.1)	140 (77.3)
	High <sup>a</sup>	40 (15.1)	34 (18.8)
	High and 1q21+ <sup>b</sup>	19 (7.2)	15 (8.3)
1q21+ <sup>b</sup> , n (%)		95 (35.8)	70 (38.7)
Amplification 1q21 <sup>b</sup> , n (%)		32 (12.1)	23 (12.7)
Del(17p) (50% cutoff), n (%)		15 (5.7)	9 (5.0)
Extramedullary disease (per IRC), n (%)		18 (6.8)	6 (3.3)

<sup>a</sup> High risk: del(17p) and/or t(4;14) and/or t(14;16). <sup>b</sup>1q21+ ≥3 copies of 1q21; amplification 1q21 ≥4 copies of 1q21.

# IMROZ PHASE 3 TRIAL OF ISA-VRD VS VRD IN TRANSPLANT-INELIGIBLE NDMM: PFS AND OS

## PFS (IRC)



### Interim OS (ITT)

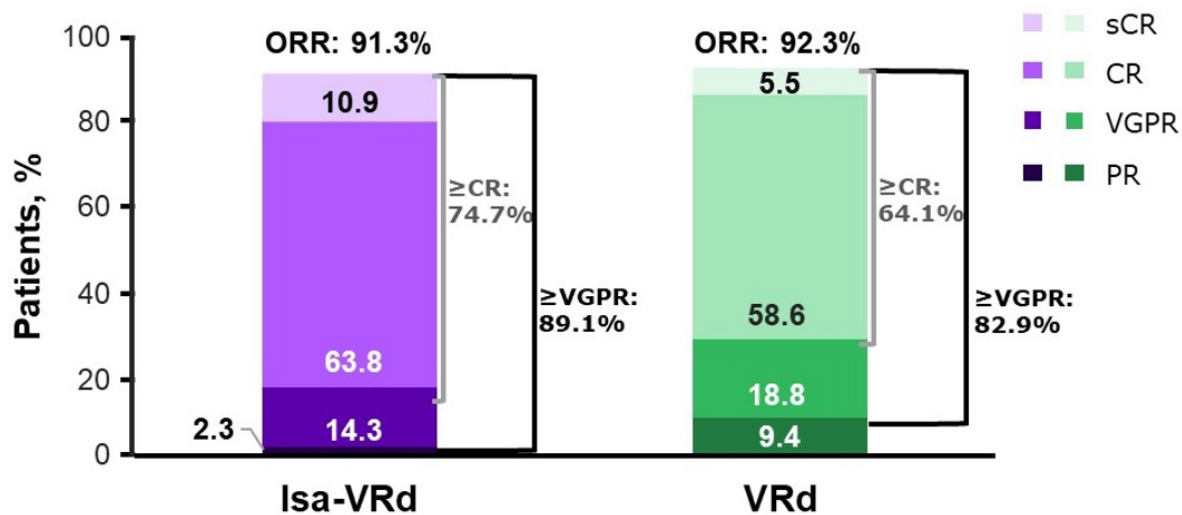
- Median follow-up: 5 years
- OS is still immature
- IsaVRd vs VRd
  - Events: 69 (26.0%) vs 59 (32.6%)
  - 5-year OS: 72.3% vs 66.3%
  - HR 0.776 (95% CI, 0.407-1.48)

PFS	Isa-VRd (n=265)	VRd (n=181)
Events, n (%)	84 (31.7)	78 (43.1)
60-month PFS, %	63.2	45.2
Median PFS (95% CI), months	NR	54.34 (45.207-NR)
HR (98.5% CI); P value	0.596 (0.406-0.876); 0.0005	



# IMROZ PHASE 3 TRIAL OF ISA-VRD VS VRD IN TRANSPLANT-INELIGIBLE NDMM: ORR AND MRD

## ORR



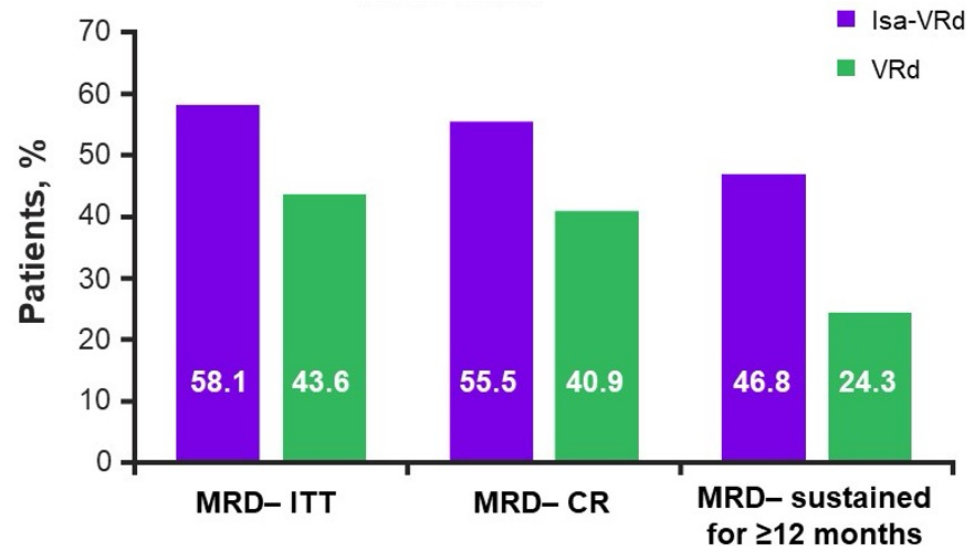
### IsaVRd vs VRd

- $\geq$ CR rate:  $P=0.01$
- $\geq$ VGPR rate: OR 1.729 (95% CI, 0.994-3.008)

### Median time to MRD- (95% CI), months

- IsaVRd: 14.72 (11.53-24.08) months vs VRd: 32.79 (17.51-45.11) months

## MRD Rate (NGS, $10^{-5}$ )

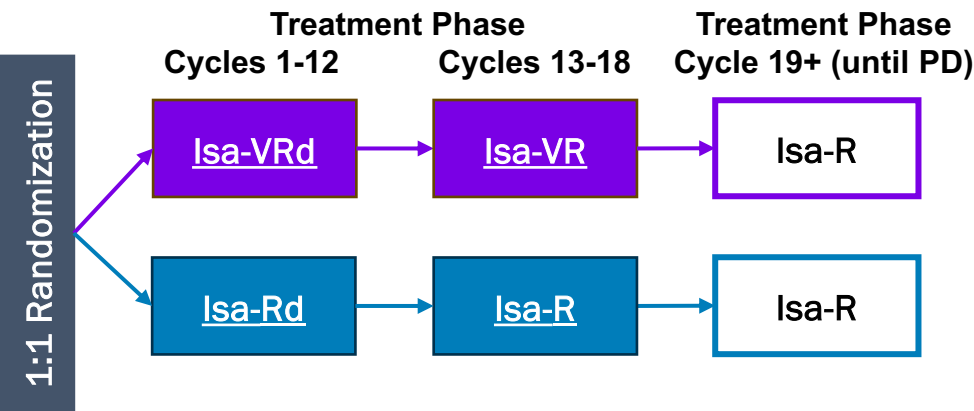


MRD	MRD- ITT	MRD- CR	MRD- for $\geq 12$ months
OR	1.791	1.803	2.729
(95% CI)	(1.221-2.627)	(1.229-2.646)	1.799-4.141
P value	—	0.003	—

# BENEFIT (IFM 2020-05) PHASE 3 TRIAL OF ISA-VRD VS ISA-RD IN TRANSPLANT-INELIGIBLE NDMM: STUDY DESIGN AND PATIENTS

Key Eligibility Criteria

- Transplant ineligible NDMM, age 65-79 years
- ECOG PS 0-2



**Treatment (4-week cycles)**  
Isa 10 mg/kg IV; days 1, 8<sup>a</sup>, 15, 22<sup>a</sup> cycles 1-12; day 1, cycles 13-18 and cycle 19+  
Bort 1.3 m/m<sup>2</sup> SUBQ; days 1, 8, 15 cycles 1-12; days 1, 15 cycles 13-18  
Len 25 mg/day PO, days 1-21 cycles 1-19+  
dex 20 mg IV, days 1, 8, 15, 22 cycles 1-12

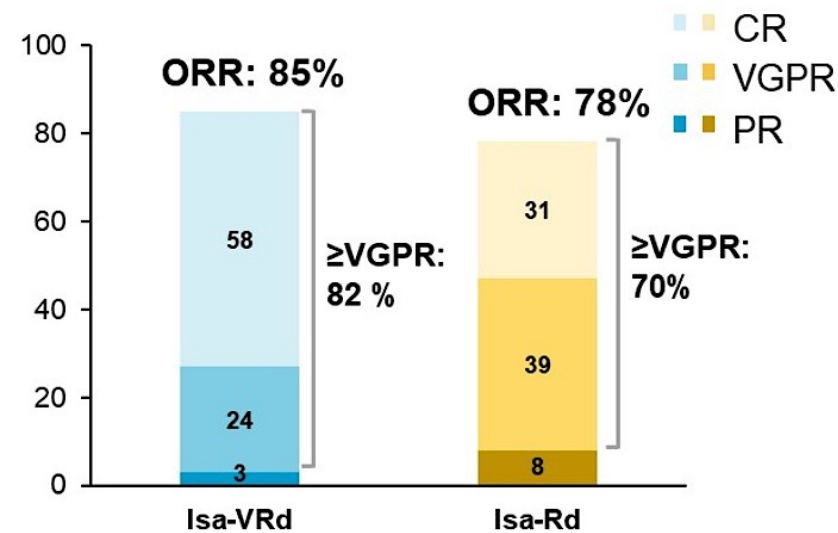
**Primary endpoint:** MRD  
**Secondary endpoints:** CR, MRD-neg CR (NGS, 10<sup>-5</sup>), ≥VGPR, PFS, OS, AEs

<sup>a</sup> Cycle 1 only.  
ClinicalTrials.gov: NCT04751877 (accessed 12 June 2024).  
Leleu XP, et al. ASCO 2024. Abstract 7501. Leleu XP, et al. EHA 2024. Abstract S203.

Patient Characteristics		Isa-VRd (n=135)	Isa-Rd (n=135)
Median age (IQR), years		73.2 (71-76)	73.6 (71-76)
Age ≥75 years, n (%)		42 (31)	48 (36)
ECOG PS, n (%)	0 or 1	125 (93)	119 (88)
	>1	10 (7)	16 (12)
eGFR <60 ml/min/1.73 m <sup>2</sup> , n (%)		19 (14)	28 (21)
ISS stage, n (%)	I/II	114 (84)	108 (80)
	III	21 (16)	27 (20)
R-ISS stage, n (%)	I	32 (24)	35 (26)
	II	92 (68)	89 (66)
	III	11 (8)	11 (8)
Cytogenetic risk, n (%)	Standard	68 (53)	75 (60)
	Intermediate	48 (37)	41 (33)
	High	13 (10)	10 (8)

# BENEFIT (IFM 2020-05) PHASE 3 TRIAL OF ISA-VRD VS ISA-RD IN TRANSPLANT-INELIGIBLE NDMM: ORR, PFS, AND OS

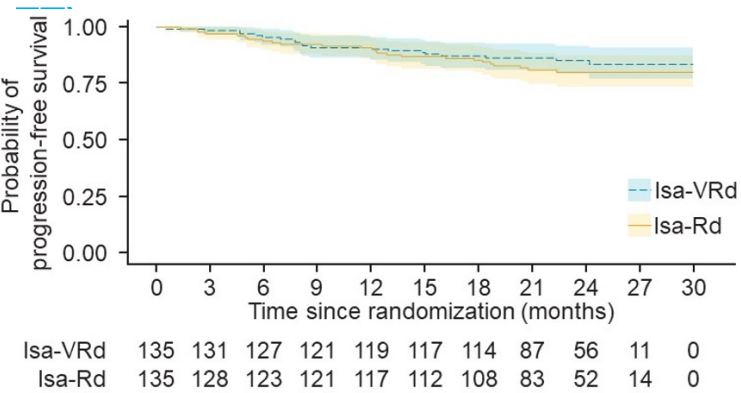
## ORR



### Isa-VRd vs Isa-Rd

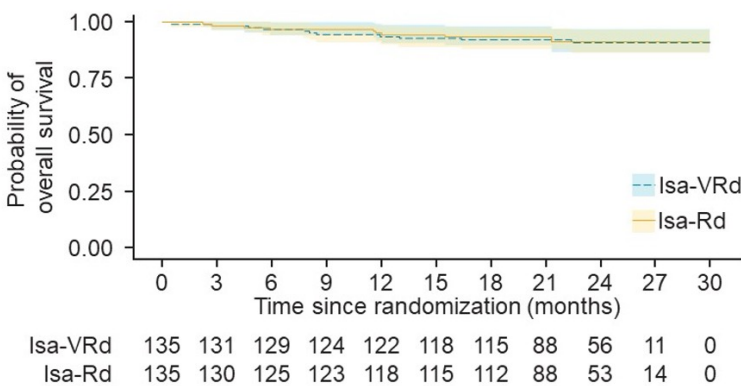
- **≥CR rate:** 58% vs 31%  
OR 2.97 (95% CI, 2-5);  $P<0.0001$
- **≥VGPR rate**  
HR 1.65 (95% CI, 1.27-2.14);  $P=0.0002$
- **Median months to first VGPR**  
2.1 (95% CI, 1.9-2.9) vs 3.7 (95% CI, 3-4.9)

## PFS (IRC in



Estimated 24-month PFS, % (95% CI)	Isa-VRd (n=135) 85.2 (79.2-91.7)	Isa-Rd (n=135) 80.0 (73.3-87.4)
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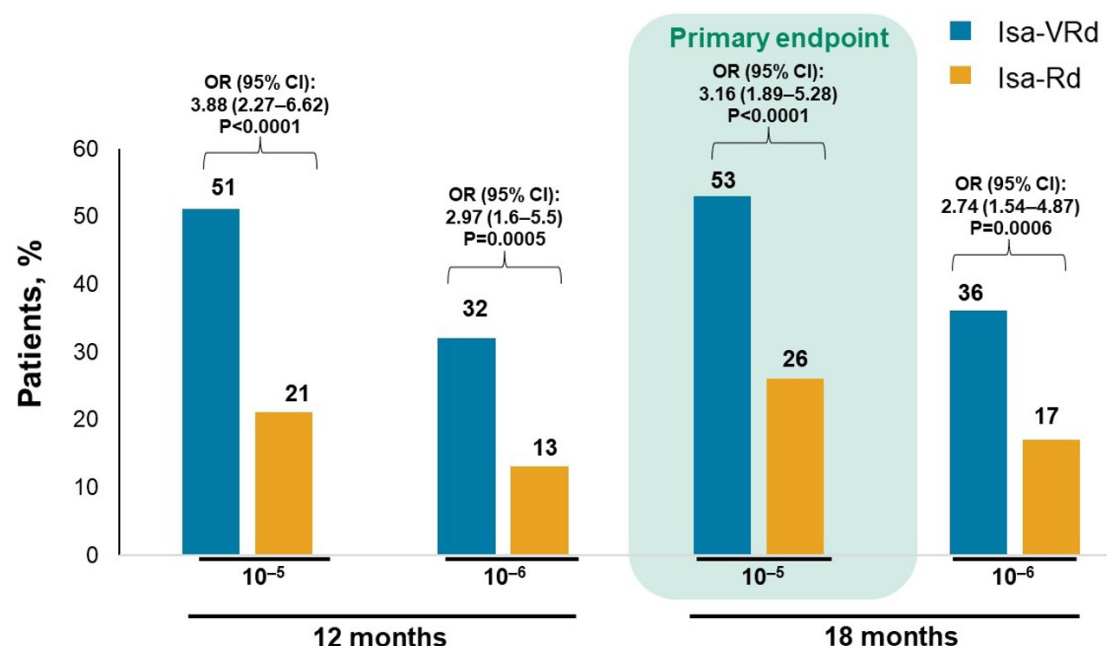
## OS (IRC in ITT)



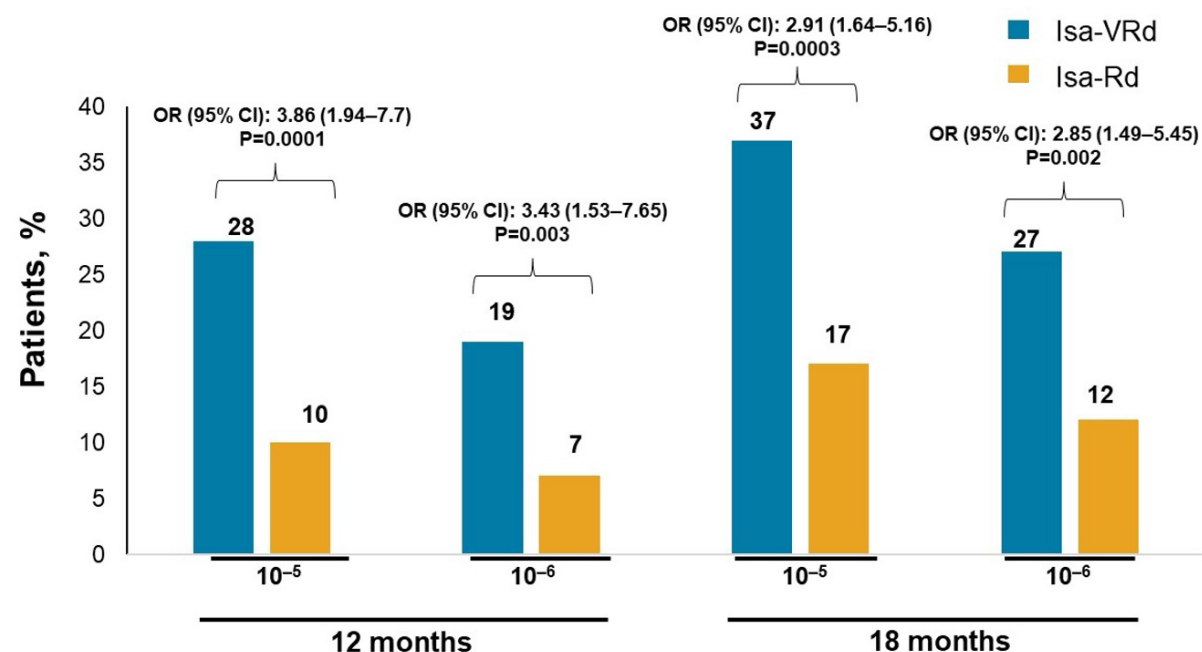
Estimated 24-month OS, % (95% CI)	Isa-VRd (n=135) 91.1 (86.1-96.4)	Isa-Rd (n=135) 91.5 (86.5-96.8)
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# BENEFIT (IFM 2020-05) PHASE 3 TRIAL OF ISA-VRD VS ISA-RD IN TRANSPLANT-INELIGIBLE NDMM: MRD

## MRD-Negative Rate at 18 Months (ITT)



## MRD-Negative CR Rate at 18 Months (ITT)





## CONCLUSION

- Myeloma induction has evolved to a 4 drug regimen. PI/IMiD/CD38/Dex
- Transplant continues to play an important role for suitable candidates and improves duration of first remission substantially
- Risk adapted maintenance is an important goal
- New definitions of high risk coming soon from the IMS
- Novel consolidations including CART or TCE will hopefully begin to open to the door to limited duration therapy

**Thanks to:**

**Jonathan Kaufman**

**Ajay Nooka**

**Craig Hofmeister**

**Madhav Dhodapkar**

**L.T. Heffner**

**Vikas Gupta**

**Nisha Joseph**

**Leon Bernal**

**Charise Gleason**

**Danielle Roberts**

**Donald Harvey**

**Amelia Langston**

**Y. Gu**

**S-Y Sun**

**Jing Chen**

**Mala Shanmugan**

**Larry Boise**

**Bryan Burton**

**Sam Gagnon**

**IMS**



# Patients and Families



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**Golfers Against Cancer**  
**T.J. Martell Foundation**

**And Many Others who**  
**are part of the Myeloma clinical and**  
**research team**

