## P974

Daratumumab (DARA)/ Bortezomib/Lenalidomide/ **Dexamethasone (D-VRd)** With D-R Maintenance in **Transplant-eligible (TE) Newly Diagnosed Multiple Myeloma** (NDMM): Analysis of PERSEUS **Based on Cytogenetic Risk** 

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## Key Takeaway

These results support the use of D-VRd induction/consolidation followed by D-R maintenance as a new standard of care for TE patients with NDMM, regardless of cytogenetic risk status

## Conclusions



(i)

The addition of DARA SC to VRd induction/consolidation and R maintenance resulted in favorable PFS benefits across all cytogenetic risk subgroups, including those with revised high risk and the presence of gain(1q21) or amp(1q21), versus VRd followed by R maintenance

D-VRd followed by D-R maintenance induced higher rates of deep and sustained (i) MRD negativity versus VRd followed by R across all cytogenetic risk subgroups

for Amgen, BeiGene, Bristol Myers Squibb, Celgene Corporation, GSK, Janssen, Menarini Silicon Biosyste

Results from this expanded subgroup analysis of PERSEUS based on the presence of HRCAs, including gain(1q21) and amp(1q21), support the addition of DARA SC to VRd therapy during both induction/consolidation and maintenance in this patient population



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Introduction

Results

Patients

Table 1: D

Race, n (%)

Asiar

Black

White

Other

Not reported

ISS disease stage, n/N (%)

Cytogenetic risk,<sup>b</sup> n (%)

Standard risk

High risk

t(4;14)

t(14;16)

Revised cytogenetic risk,<sup>c</sup> n (%)

Progression-free survival

Standard risk High risk Revised high risk Gain(1q21) Gain(1q21) Gain(1q21) or amp(1q21) Isolated gain(1q21) Isolated gain(1q21) Isolated RCA >2 revised HRCA

PFS, progression-free survival; ITT, intent-to-treat; D-VR

by R maintenance across all cytogenetic risk subgroups (Figure 1)

D-VRd VRd Median Median n/N PFS (mo) n/N PFS (mo)

NE NE NE NE NE NE NE NE

62/266 38/78 35/167 62/148 26/71 17/36 43/107 15/47 9/23 43/110 19/38

NE 44.1 NE NE 46.7 NE NE NE NE 44.1

0.1 I Favors D-VRd Favors VRd

Figure 1: Cytogenetic risk subgroup analysis of PFS (ITT)

25/264 24/76 12/174 33/130 15/59 6/28 21/87 8/37 1/17 21/97 12/33

Revised standard risk

Revised high risk

del(17p)

Median (range), year

Daratumumab (DARA) is a human IgGk monoclonal antibody targeting CD38 with a direct on-tumor<sup>14</sup> and

DARA is approved in combination with other standard-of-care regimens for patients with newly diagnosed multiple myeloma (NDMM)<sup>910</sup> and has been used to treat >518,000 patients worldwide"

orten have a poor prognosis and experience poor disease outcomes<sup>27</sup> In the primary analysis of the phase 3 PERSEUS study (ClinicalTrials.gov Identifier: NCT03710603), with a median follow-up of 47.5 months, subcutaneous DARA (DARA SC) plus bortezomib, lenalidomide, and dexamethasone (D-VRd) followed by D-R maintenance significantly improved progression-free survival (PES) and increased depth of response, including complete response or better (c2R) and minimal residual disease (MRD)-negativity rates, versus VRd followed by R maintenance alone in transplant-eligible (TE) patients with NDMM<sup>17</sup>

Overall and sustained MRD-negativity rates (10<sup>-5</sup> and 10<sup>-6</sup>) were significantly higher with D-VRd followed by D-R maintenance versus VRd followed by R maintenance<sup>17,18</sup>

Furthermore, consistent benefits in terms of PFS, ≥CR rates, and MRD-negativity rates were observed across clinically relevant subgroups, including patients with high cytogenetic risk (ie, del[17p], t[4;14], or t[14;16])

Here, we report an expanded analysis of PERSEUS clinical outcomes (PFS, overall MRD negativity, and sustained MRD negativity) based on the presence of HRCAs, including gain(1q21) and amp(1q21)

Patient demographic and baseline characteristics were well balanced between groups<sup>17</sup> (Table 1

D-VRd

610 (32-70)

211 (59.4)

4 (1.1)

5 (1.4)

330 (93.0)

4 (1.1)

12 (3.4)

186/355 (52.4

114/355 (32.1)

55/355 (15.5)

264 (74.4)

76 (21.4)

36 (10.1)

33 (9.3)

11 (3.1)

15 (4.2)

174 (49.0)

130 (36.6)

After a median follow-up of 47.5 months, PFS favored D-VRd followed by D-R maintenance versus VRd followe

HR point estimates for PFS favored D-VRd versus VRd for revised standard (HR, 0.29; 95% Cl, 0.15-0.56; P = 0.0001) and revised high cytogenetic risk (HR, 0.53; 95% Cl, 0.35-0.81; P = 0.0027; Figure 2)

HR (95% CI)

HR point estimates for PFS also favored D-VRd versus VRd in patients with the presence of gain(1q21), amp(1q21), and gain(1q21) or amp(1q21), irrespective of other HRCAs (Figure 3)

51 (14.4)

, or t(14;16).

59.0 (31-70

205 (57.9)

6 (1.7)

4 (1.1)

323 (91.2)

3 (0.8)

18 (5.1)

178/353 (50.4)

125/353 (35.4)

50/353 (14.2)

266 (75.1)

78 (22.0)

38 (10.7)

14 (4.0)

10 (2.8)

167 (47.2)

148 (41.8)

39 (11.0)

0.35 (0.22-0.56) 0.59 (0.36-0.99) 0.29 (0.15-0.56) 0.53 (0.35-0.81) 0.62 (0.33-1.18) 0.37 (0.15-0.94) 0.52 (0.31-0.88) 0.57 (0.24-1.36) 0.11 (0.01-0.87) 0.47 (0.28-0.79) 0.73 (0.35-1.50)

P value

<0.0001

0.0439 0.0001 0.0027 0.1400 0.0306 0.0133 0.2004 0.0115 0.0035

34 (9.6)

Overall (10<sup>-5</sup>): 75.2% versus 47.5% (P < 0.0001)</li>

Overall (10<sup>-6</sup>): 65.1% versus 32.2% (P < 0.0001)</li>

Sustained (≥12 months; 10<sup>-5</sup>): 64.8% versus 29.7% (P <0.0001)</li>

In total, 709 patients were randomized (D-VRd, n = 355; VRd, n = 354)

ographic and baseline characteristics of the ITT populatio

Sustained (≥12 months; 10-6): 47.3% versus 18.6% (P <0.0001)

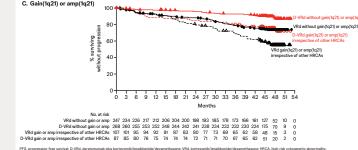
immunomodulatory<sup>5,7</sup> mechanism of action, demonstrating greater cytotoxicity toward multiple myel ex vivo compared with analogs of other CD38 antibodies<sup>8</sup>

**Methods** 

- Study design Patients aged 18 to 70 years with NDMM who were eligible for high-dose chemotherapy and autologous stem cell transplant (ASCT) were randomized 1:1 to receive D-VRd followed by D-R maintenance or VRd followed by
  - R maintenance Patients in both arms received up to six 28-day cycles (4 pre–ASCT induction; 2 post–ASCT consolidation) of VRd (V: 1.3 mg/m<sup>2</sup> SC on Days 1, 4, 8, and 11; R: 25 mg orally once daily on Days 1-21; d: 40 mg orally/intravenously
- DARA has consistently demonstrated clinical efficacy in patients with NDMM and relapsed/refractory multiple myeloma in several pivotal clinical trials<sup>12+15</sup> on Days 1-4 and 9-12) followed by R maintenance (10 mg orally once daily on Days 1-28) Despite the advancements in antimyeloma treatments, patients with high-risk cytogenetic abnormalities (HRCAs) often have a poor prognosis and experience poor disease outcomes<sup>16</sup>
  - Patients in the D-VRd/D-R arm also received DARA SC (DARA 1,800 mg + recombinant human hyaluronidase PH20 [rHuPH20; 2,000 U/mL; Halozyme]) QW in Cycles 1 to 2, Q2W in Cycles 3 to 6, and Q4W during maintenance until progressive disease or unacceptable toxicity

### Patient subgroups

- The following cytogenetic risk subgroups were explored in this analysis:
- Standard risk (per protocol), defined as none of the following HRCAs: del(17p), t(4;14), t(14;16)
- High risk (per protocol), defined as 1 or more of the following HRCAs: del(17p), t(4;14), t(14;16) Revised standard risk, defined as none of the following HRCAs: del(17p), t(4;14), t(14;16), gain(1q21), amp(1q21)
- Revised high risk, defined as 1 or more of the following HRCAs: del(17p), t(4;14), t(14;16), gain(1q21), amp(1q21)
- Gain(1q21), defined as the presence of 3 copies of chromosome 1q21, with or without other HRCAs
- Amp(1q21), defined as the presence of 4 or more copies of chromosome 1q21, with or without other HRCAs Gain(1q21) or amp(1q21), defined as the presence of gain(1q21) or amp(1q21), with or without other HRCAs
- Figure 2: Subgroup analysis of PFS based on revised<sup>a</sup> cytogenetic risk status (ITT) Month An Usar Marriski 167 1157 152 148 143 141 140 138 137 135 131 127 123 118 116 96 36 6 0 Marriski 147 157 163 162 162 162 159 158 157 155 155 155 153 149 124 52 7 0 Majoriski 130 129 127 127 118 112 109 169 169 82 92 78 47 76 42 2 Majoriski 130 127 121 117 115 111 110 109 107 105 101 99 96 84 90 76 31 2 0 Figure 3: Subgroup analysis of PFS based on chromosome 1g21 status A. Gain(1g21) Town of the second seco 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 5 gain(1q21) 283 269 257 248 243 236 232 227 224 217 208 200 195 187 179 B. Amp(1a21 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 Months No. at risk out amp(1q21) 318 300 290 280 273 267 263 256 252 246 235 225 216 207 201 160 C. Gain(1q21) or amp(1q21)



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Isolated gain(1g21), defined as the presence of 3 copies of chromosome 1g21, without any other HRCAs Isolated amp(1q21), defined as the presence of 4 or more copies of chromosome 1q21, without any other HRCAs 1 revised HRCA, defined as the presence of only 1 revised HRCA ≥2 revised HRCAs, defined as the presence of 2 or more revised HRCAs Cytogenetic risk was centrally assessed by fluorescence in situ hybridization Patients were considered positive for a chromosome abnormality when the test result met or exceeded the threshold established by the central laboratory Assessments PFS (primary endpoint) was defined as the time from the date of randomization to the date of first disease progression (as per International Myeloma Working Group response criteria)19 or death, whichever occurred first PFS was compared between treatment groups using a log-rank test, and the Kaplan-Meier method was used to estimate PFS distributions Treatment effect (hazard ratio [HR]) and corresponding 95% confidence intervals (CIs) were estimated using a Cox regression model with treatment as the sole variable Overall MRD-negativity rate was defined as the proportion of patients who achieved MRD negativity (at or below  $10^{-5}$ ) and  $\geq$ CR at any time during the study Sustained MRD negativity was defined as 2 consecutive MRD-negative results (at or below  $10^{-6}$ )  $\geq$ 12 month apart without any MRD-positive ( $10^{-4}$  or higher) results in between MRD was assessed using bone marrow aspirates by next-generation sequencing (clonoSEQ $^{\otimes}$  Assay, Version 2.0 Adaptive Biotechnologies) Treatment effect (odds ratio) and corresponding 95% CIs were estimated using a Mantel-

### Minimal residual disease

Subgroup analysis of overall and sustained (≥12 months) MRD negativity (at 10<sup>-6</sup> and 10<sup>-6</sup>) with ≥CR rates based on cytogenetic risk markers favored treatment with D-VRd followed by D-R maintenance over VRd followed by R maintenance, regardless of high-risk cytogenetic markers (**Figures 4**-7)

## Figure 4: Subgroup analysis of MRD negativity (10-⁵) with ≥CR

	D-VRd	VRd			
	n/N (%)	n/N (%)	OR (95% CI)		P value
Standard risk	204/264 (77.3)	128/266 (48.1)	· ••	3.67 (2.52-5.33)	<0.000
High risk	52/76 (68.4)	37/78 (47.4)		2.40 (1.24-4.63)	0.0086
Revised standard risk	131/174 (75.3)	79/167 (47.3)	. <b>⊢</b> ⊢	3.39 (2.14-5.37)	< 0.000
Revised high risk	95/130 (73.1)	73/148 (49.3)	╵⊢━┥	2.79 (1.68-4.62)	<0.000
Gain(1q21)	41/59 (69.5)	33/71 (46.5)	I	2.62 (1.27-5.41)	0.008
Amp(1q21)	24/28 (85.7)	20/36 (55.6)	I I I I I I I I I I I I I I I I I I I	4.80 (1.38-16.69)	0.0104
Gain(1q21) or amp(1q21)	65/87 (74.7)	53/107 (49.5)	ı 🛏 🛏	3.01 (1.63-5.56)	0.000
Isolated gain(1q21)	27/37 (73.0)	23/47 (48.9)	j <b></b>	2.82 (1.12-7.10)	0.0268
Isolated amp(1q21)	16/17 (94.1)	13/23 (56.5)	. ⊢—— <b>→</b>	12.31 (1.39-109.10)	0.0093
1 revised HRCA	73/97 (75.3)	55/110 (50.0)	' <b></b>	3.04 (1.68-5.51)	0.000
≥2 revised HRCAs	22/33 (66.7)	18/38 (47.4)	ہــــ	2.22 (0.85-5.83)	0.1044
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		Favo	rs VRd Favors D-VRd		

sidual disease; CR, complete nterval; HRCA, high-risk cyto

#### Figure 5: Subgroup analysis of sustained MRD negativity (10-5) lasting ≥12 months

	D-VRd	VRd			
	n/N (%)	n/N (%)	OR (95%	OR (95% CI)	
Standard risk	183/264 (69.3)	83/266 (31.2)	. <b>⊢</b> ⊢	4.98 (3.45-7.20)	<0.0001
High risk	37/76 (48.7)	20/78 (25.6)	; <b></b>	2.75 (1.40-5.42)	0.0032
Revised standard risk	115/174 (66.1)	53/167 (31.7)	·	4.19 (2.67-6.59)	< 0.0001
Revised high risk	77/130 (59.2)	41/148 (27.7)	·	3.79 (2.30-6.26)	< 0.0001
Gain(1g21)	37/59 (62.7)	21/71 (29.6)	I ⊨ <b>−</b> −1	4.00 (1.92-8.34)	0.0002
Amp(1g21)	20/28 (71.4)	10/36 (27.8)	I ⊨—●	6.50 (2.17-19.48)	0.0006
Gain(1q21) or amp(1q21)	57/87 (65.5)	31/107 (29.0)	I ⊨ <b>●</b> →	4.66 (2.54-8.56)	< 0.0001
Isolated gain(1g21)	25/37 (67.6)	15/47 (31.9)	ı ⊨ <b>→</b>	4.44 (1.77-11.17)	0.0012
Isolated amp(1g21)	15/17 (88.2)	6/23 (26.1)	; ⊢—→	21.25 (3.71-121.61)	0.0001
1 revised HRCA	60/97 (61.9)	31/110 (28.2)	. ⊢ <b>⊷</b> ⊣	4.13 (2.31-7.41)	< 0.0001
≥2 revised HRCAs	17/33 (51.5)	10/38 (26.3)	' <b></b>	2.97 (1.10-8.04)	0.0303
		г			
		0.1	1 10		
		Fa	vors VRd Favors D-VRd		

MRD, minimal re HRCA biob-risk

#### Figure 6: Subgroup analysis of MRD negativity (10<sup>-6</sup>) with ≥CR

	D-VRd n/N (%)	VRd n/N (%)	- OR (95		P value
	11/11 (%)	11/IN (%)	UR (95:	% CI)	F value
Standard risk	177/264 (67.0)	88/266 (33.1)	i 🛏	4.12 (2.87-5.91)	< 0.000
High risk	44/76 (57.9)	24/78 (30.8)	·	3.09 (1.60-6.00)	0.0007
Revised standard risk	115/174 (66.1)	56/167 (33.5)	. ⊢ <b>⊷</b> ⊣	3.86 (2.47-6.05)	< 0.0001
Revised high risk	82/130 (63.1)	48/148 (32.4)	I ⊨ <b>⊷</b> ⊣	3.56 (2.17-5.84)	< 0.0001
Gain(1q21)	36/59 (61.0)	22/71 (31.0)	<b>ب</b> ا	3.49 (1.69-7.20)	0.0006
Amp(1g21)	21/28 (75.0)	15/36 (41.7)	I I I I I I I I I I I I I I I I I I I	4.20 (1.42-12.39)	0.0082
Gain(1g21) or amp(1g21)	57/87 (65.5)	37/107 (34.6)	I H	3.59 (1.98-6.52)	< 0.000
Isolated gain(1g21)	24/37 (64.9)	15/47 (31.9)	i	3.94 (1.58-9.80)	0.0028
Isolated amp(1g21)	14/17 (82.4)	9/23 (39.1)	¦ ⊢→	7.26 (1.62-32.60)	0.0069
1 revised HRCA	63/97 (64.9)	35/110 (31.8)	¦ ⊨ <b></b> ⊷⊣	3.97 (2.23-7.08)	< 0.0001
≥2 revised HRCAs	19/33 (57.6)	13/38 (34.2)	<b>└─</b> ●──1	2.61 (1.00-6.83)	0.0500
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			0.1 1 10		
			Favors VRd Favors D-VRd		

#### Figure 7: Subgroup analysis of sustained MRD negativity (10-6) lasting ≥12 months

	D-VRd	VRd			
	n/N (%)	n/N (%)	 OR (95%	CI)	P value
Standard risk	137/264 (51.9)	54/266 (20.3)	<b>⊢</b> +	4.24 (2.88-6.22)	<0.0001
High risk	23/76 (30.3)	11/78 (14.1)	; <b>⊢⊸</b> –⊣	2.64 (1.18-5.90)	0.0160
Revised standard risk	87/174 (50.0)	35/167 (21.0)	! <b>⊢</b> ⊷⊣	3.77 (2.34-6.07)	< 0.0001
Revised high risk	55/130 (42.3)	23/148 (15.5)	ا <mark>⊢•−</mark>	3.99 (2.27-7.01)	< 0.0001
Gain(1q21)	25/59 (42.4)	11/71 (15.5)	I ⊨ <b>⊸</b> −1	4.01 (1.76-9.15)	0.0007
Amp(1q21)	17/28 (60.7)	6/36 (16.7)	∣ ⊢⊸●→	7.73 (2.42-24.63)	0.0003
Gain(1q21) or amp(1q21)	42/87 (48.3)	17/107 (15.9)	I ⊨•••1	4.94 (2.53-9.63)	< 0.0001
Isolated gain(1q21)	19/37 (51.4)	9/47 (19.1)	ı ⊨ <b>⊸</b> →	4.46 (1.69-11.77)	0.0020
Isolated amp(1q21)	13/17 (76.5)	3/23 (13.0)	; ⊢→	21.67 (4.15-113.02)	< 0.0001
1 revised HRCA	45/97 (46.4)	18/110 (16.4)	. ⊢ <b>⊷</b> ⊣	4.42 (2.32-8.42)	< 0.0001
≥2 revised HRCAs	10/33 (30.3)	5/38 (13.2)		2.87 (0.87-9.51)	0.0797
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			0.1 1 10		
			Favors VRd Favors D-VRd		

# Multiple Myeloma

