

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

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Disclosures of Conflicts of Interest

CD has nothing to disclose. **MAD** has served in a consulting/advisory role for and received honoraria from Amgen, BeiGene, BMS, Janssen-Cilag, Takeda. **PS** has received honoraria from Amgen, BMS, Celgene, Janssen, Karyopharm, Pfizer, Takeda; received research funding from Amgen, BMS, Celgene, Janssen, Karyopharm, Takeda, Skyline DX. **PRO** has received honoraria from Amgen, BMS, Celgene, GSK, Janssen, Oncoceptides, Regeneron, Sanofi. **HQ** has served in a consulting/advisory role for Amgen, Antengene, BMS, CSL, GSK, Janssen, Karyopharm, Sanofi; received honoraria from Amgen, Antengene, BMS, CSL, GSK, Janssen, Karyopharm; received research funding from AbbVie, Amgen, Antengene, BMS, GSK, Karyopharm, Sanofi. **PJH** has nothing to disclose. **MB** has served in a consulting/advisory role for Amgen, Janssen, Oncoceptides, Sanofi, Takeda. **CH** has served in a consulting/advisory role for Celgene; received honoraria from AbbVie, Amgen, Celgene, Janssen. **EA** has nothing to disclose. **XL** has nothing to disclose. **SM** has served in a consulting/advisory role for BMS, Janssen, Sanofi, Takeda; received honoraria from Amgen, BMS, GSK, Janssen, Sanofi, Takeda. **AP** has served in a consulting/advisory role for and received honoraria from AbbVie, Amgen, BMS, Janssen, Pfizer, Sanofi, Takeda. **MC** has received honoraria from AbbVie, Adaptive Biotechnologies, Amgen, BMS, Celgene, GSK, Janssen, Mundipharma, Sanofi, Takeda. **ABe** has nothing to disclose. **ABr** has served in a consulting/advisory role for and received honoraria from Amgen, BMS, Janssen, Sanofi. **FG** has served in a consulting/advisory role for and received honoraria from AbbVie, Adaptive Bluebird Bio, Biotechnologies, Amgen, BMS, Celgene, GSK, Janssen, Oncoceptides, Roche, Sanofi, Takeda. **RM** has served in a consulting/advisory role for and received honoraria from Amgen, BMS, Celgene, Janssen, Sanofi, Takeda. **ISN** has nothing to disclose. **NWCJvdD** has served as a consultant or advisor to AbbVie, Adaptive Biotechnologies, Amgen, Bayer, BMS, Celgene, Janssen, Novartis, Pfizer, Roche, Servier, Takeda; received research funding from Amgen, BMS, Celgene, Cellectis, Janssen, Novartis. **EK** has served in a consulting/advisory role for Amgen, Janssen-Cilag; received honoraria and research funding from Amgen, Genesis Pharma, Janssen-Cilag, Takeda; received travel and accommodation funding from Genesis Pharma, Takeda. **FS** has served in a consulting/advisory role for AbbVie, Celgene, GSK, Janssen, Oncoceptides, Sanofi, Takeda; received honoraria from AbbVie, Amgen, BMS, Daiki-Sankyo, GSK, Janssen, Novartis, Oncoceptides, Pfizer, Sanofi, Skyline Dx, Takeda; received research funding from Celgene, GSK, Janssen, Oncoceptides, Sanofi, Targovax. **ASB** has served in a consulting/advisory role for BMS, Celgene, Gilead Sciences, Janssen, Novartis, Takeda; received honoraria from BMS, Celgene, Gilead Sciences, Janssen-Cilag, Merck Sharp & Dohm, Novartis, Roche, Sanofi, Takeda; received travel and accommodation funding from Gilead Sciences/Kite; other relationships with Celgene, Gilead, Roche, Sanofi, Takeda. **LR** has served in a consulting/advisory role for Amgen, Celgene, Janssen-Cilag, Sanofi; received honoraria from Amgen, Celgene, GSK, Janssen-Cilag, Sanofi, Takeda. **MD** has served as a consultant/advisor for Amgen, BMS, GSK, Janssen, Sanofi, Stemline Therapeutics, Takeda. **WR** has served as a consultant/advisor for AbbVie, BMS, Takeda; received honoraria from Amgen, BMS, Janssen, Sanofi. **AV** has nothing to disclose. **HE** served as a consultant or advisor for, and received honoraria and research funding from Amgen, BMS, Celgene, GSK, Janssen, Sanofi. **AS** has served in a consulting/advisory role for AbbVie, Antengene, BMS, Haemalogix, Janssen, Regeneron, Roche, Skyline; holds patent/copyright licensing for AbbVie; received honoraria from AbbVie, Antengene, BMS, Haemalogix, Janssen; Regeneron, Roche, Skyline; received research funding from AbbVie, Antengene, BMS, Haemalogix, Janssen. **RH** has served in a consulting/advisory role for AbbVie, Amgen, BMS, Janssen, Novartis, Pharma Mar, Takeda; received honoraria from AbbVie, Amgen, Janssen, Pharma Mar, Takeda; received research funding from Amgen, BMS, Janssen, Novartis, Takeda. **AJ** has nothing to disclose. **SL** has nothing to disclose. **YL, JW, DV, EMJvB, VV, ASA, CJdB, and RC** are employees/hold stock and other ownership interests in Janssen. **JB** has served in a consulting/advisory role for and received honoraria from Amgen, Celgene, Janssen, Takeda. **MB** has served in a consulting/advisory role for GSK, Janssen; received honoraria from AbbVie, Amgen, BMS, Celgene, GSK, Janssen, Novartis, Sanofi; received research funding from Amgen, BMS, Celgene, Janssen, Mundipharma, Novartis, Sanofi. **PM** has served in a consulting/advisory role for and received honoraria from AbbVie, Amgen, Celgene, GSK, Janssen, Oncoceptides, Sanofi.



PERSEUS: Introduction

- DARA is a human IgGk monoclonal antibody targeting CD38 with a direct on-tumor¹⁻⁴ and immunomodulatory⁵⁻⁷ MOA, demonstrating greater cytotoxicity toward MM cells ex vivo vs analogs of other CD38 antibodies⁸
 - DARA is approved in combination with other SOC regimens in NDMM^{9,10} and has been used to treat >518,000 patients worldwide¹¹
 - DARA has consistently demonstrated efficacy in pivotal clinical trials¹²⁻¹⁵
- Patients with HRCAs often have a poor prognosis and experience poor disease outcomes¹⁶
 - In the primary analysis of the phase 3 PERSEUS study, D-VRd + D-R maintenance significantly improved PFS and increased depth of response, including \geq CR, vs VRd + R maintenance alone in TE patients with NDMM at median follow-up of 47.5 months¹⁷
 - Overall and sustained MRD-negativity rates were significantly higher with D-VRd + D-R maintenance vs VRd + R maintenance^{17,18}
 - Overall (10^{-5}): 75.2% vs 47.5% ($P < 0.0001$)
 - Overall (10^{-6}): 65.1% vs 32.2% ($P < 0.0001$)
 - Sustained (≥ 12 months; 10^{-5}): 64.8% vs 29.7% ($P < 0.0001$)
 - Sustained (≥ 12 months; 10^{-6}): 47.3% vs 18.6% ($P < 0.0001$)
 - Consistent benefits were observed across subgroups, including in patients with HRCAs (ie, del[17p], t[4;14], or t[14;16])
- 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)

CR, complete response; D-R, daratumumab plus lenalidomide; D-VRd, subcutaneous daratumumab plus bortezomib, lenalidomide, and dexamethasone; DARA, daratumumab; HRCA, high-risk cytogenetic abnormality; Ig, immunoglobulin; MM, multiple myeloma; MOA, mechanism of action; MRD, minimal residual disease; NDMM, newly diagnosed multiple myeloma; PFS, progression-free survival; R, lenalidomide; SOC, standard of care; TE, transplant-eligible; VRd, bortezomib, lenalidomide, and dexamethasone.

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PERSEUS: Study Design

- In PERSEUS (NCT03710603), patients aged 18–70 years with NDMM and eligible for high-dose chemotherapy and 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/m² SC on days 1, 4, 8, and 11; R: 25 mg PO once daily on days 1–21; d: 40 mg PO/IV on days 1–4 and 9–12) followed by R maintenance (10 mg PO once daily on days 1–28)
- Patients in the D-VRd/D-R arm also received DARA SC (DARA 1800 mg + rHuPH20; 2000 U/mL; Halozyme) QW in cycles 1–2, Q2W in cycles 3–6, and Q4W during maintenance until progressive disease or unacceptable toxicity



PERSEUS: Cytogenetic Risk Subgroups

- The following cytogenetic risk subgroups were explored in this analysis:
 - Standard risk (per protocol) – none of the HRCAs del(17p), t(4;14), t(14;16)
 - High risk (per protocol) – ≥ 1 HRCA: del(17p), t(4;14), t(14;16)
 - Revised standard risk – none of the HRCAs: del(17p), t(4;14), t(14;16), gain(1q21), amp(1q21)
 - Revised high risk – ≥ 1 HRCA: del(17p), t(4;14), t(14;16), gain(1q21), amp(1q21)
 - Gain(1q21) – 3 copies of chromosome 1q21 \pm other HRCAs
 - Amp(1q21) – ≥ 4 copies of chromosome 1q21 \pm other HRCAs
 - Gain(1q21) or amp(1q21) – gain(1q21) or amp(1q21) \pm other HRCAs
 - Isolated gain(1q21) – 3 copies of chromosome 1q21, with no other HRCAs
 - Isolated amp(1q21) – ≥ 4 copies of chromosome 1q21, with no other HRCAs
 - 1 revised HRCA – presence of 1 revised HRCA only
 - ≥ 2 revised HRCAs – presence of ≥ 2 revised HRCAs
- Cytogenetic risk was centrally assessed by FISH^a

^aPatients were considered positive for a chromosome abnormality when test result met or exceeded the threshold established by the central laboratory.
FISH, fluorescence in situ hybridization; HRCA, high-risk cytogenetic abnormality.



PERSEUS: 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)¹ or death, whichever occurred first
 - PFS was compared between treatment groups using a log-rank test; the Kaplan-Meier method was used to estimate PFS distributions
 - Treatment effect (HR) and corresponding 95% 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^{-5}) \geq 12 months apart without any MRD positive (10^{-4} or higher) results in between
 - MRD was assessed using bone marrow aspirates by next-generation sequencing (clonoSEQ[®] Assay, version 2.0; Adaptive Biotechnologies)
 - Treatment effect (OR) and corresponding 95% CIs were estimated using a Mantel-Haenszel estimation



PERSEUS: Demographic and Baseline Characteristics of the ITT Population^a

- In total, 709 patients were randomized (D-VRd, n=355; VRd, n=354)
 - Patient demographic and baseline characteristics were well balanced between groups¹

Characteristic	D-VRd (n=355)	VRd (n=354)
Age		
Median (range), years	61.0 (32–70)	59.0 (31–70)
Male, n (%)	211 (59.4)	205 (57.9)
Race, n (%)		
Asian	4 (1.1)	6 (1.7)
Black	5 (1.4)	4 (1.1)
White	330 (93.0)	323 (91.2)
Other	4 (1.1)	3 (0.8)
Not reported	12 (3.4)	18 (5.1)
ISS disease stage, n/N (%)		
I	186/355 (52.4)	178/353 (50.4)
II	114/355 (32.1)	125/353 (35.4)
III	55/355 (15.5)	50/353 (14.2)
Cytogenetic risk, ^b n (%)		
Standard risk	264 (74.4)	266 (75.1)
High risk	76 (21.4)	78 (22.0)
del(17p)	36 (10.1)	34 (9.6)
t(4;14)	33 (9.3)	38 (10.7)
t(14;16)	11 (3.1)	14 (4.0)
Indeterminate	15 (4.2)	10 (2.8)
Revised cytogenetic risk, ^c n (%)		
Revised standard risk	174 (49.0)	167 (47.2)
Revised high risk	130 (36.6)	148 (41.8)
Indeterminate	51 (14.4)	39 (11.0)

^aThe ITT population included all randomized patients. ^bCytogenetic risk was based on FISH; high risk was defined as the presence of del(17p), t(4;14), or t(14;16). ^cRevised cytogenetic risk was defined as the presence of del(17p), t(4;14), t(14;16), gain(1q21), or amp(1q21).

D-VRd, daratumumab plus bortezomib, lenalidomide, and dexamethasone; FISH, fluorescence in situ hybridization; ISS, International Staging System; ITT, intent-to-treat; VRd, bortezomib, lenalidomide, and dexamethasone.

1. Sonneveld P, et al. *N Engl J Med* 2024;390:301-13.

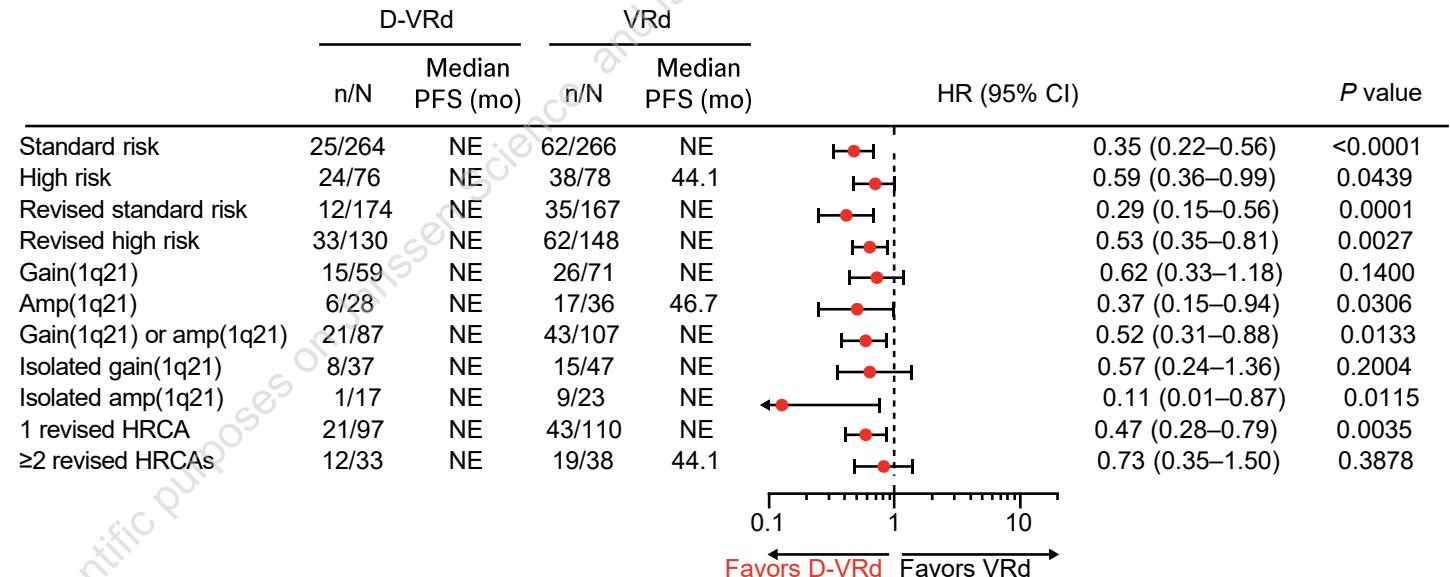


PERSEUS: PFS in Cytogenetic Risk Subgroups

- After median follow-up of 47.5 months, PFS favored D-VRd followed by D-R maintenance vs VRd followed by R maintenance across all cytogenetic risk subgroups

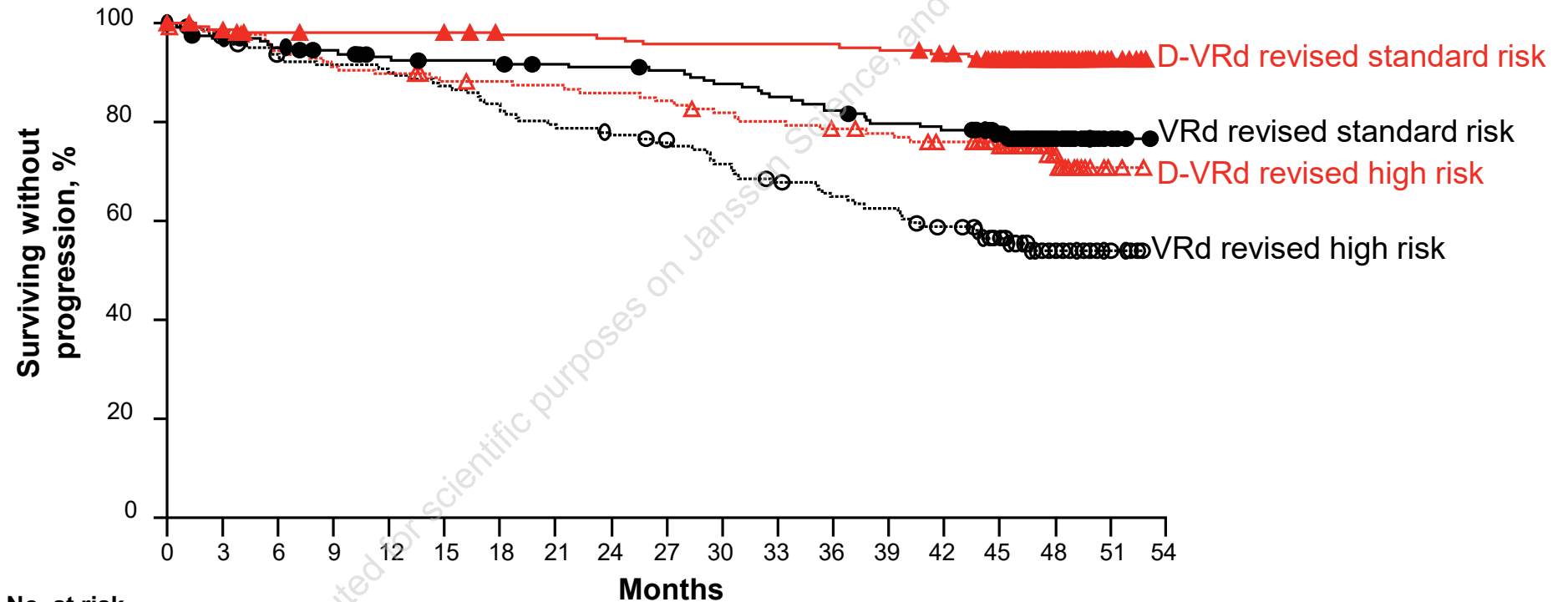
- Revised standard (HR, 0.29; 95% CI, 0.15–0.56; $P=0.0001$)
- Revised high cytogenetic risk (HR, 0.53; 95% CI, 0.35–0.81; $P=0.0027$)
- HR point estimates for PFS also favored D-VRd in patients with the presence of gain(1q21), amp(1q21), and gain(1q21) or amp(1q21), irrespective of other HRCAs

Cytogenetic risk subgroup analysis of PFS (ITT)



PERSEUS: PFS Based on Revised Cytogenetic Risk Status

Subgroup analysis of PFS based on revised^a cytogenetic risk status (ITT)



	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
VRd revised standard risk	167	157	152	148	143	141	140	138	137	135	131	127	123	118	116	96	36	6	0
D-VRd revised standard risk	174	167	163	162	162	162	159	158	157	155	155	155	155	153	149	124	52	7	0
VRd revised high risk	148	139	132	129	127	123	118	112	109	105	98	92	87	84	77	64	22	4	0
D-VRd revised high risk	130	127	121	117	115	111	110	109	107	105	101	99	96	94	90	76	31	2	0

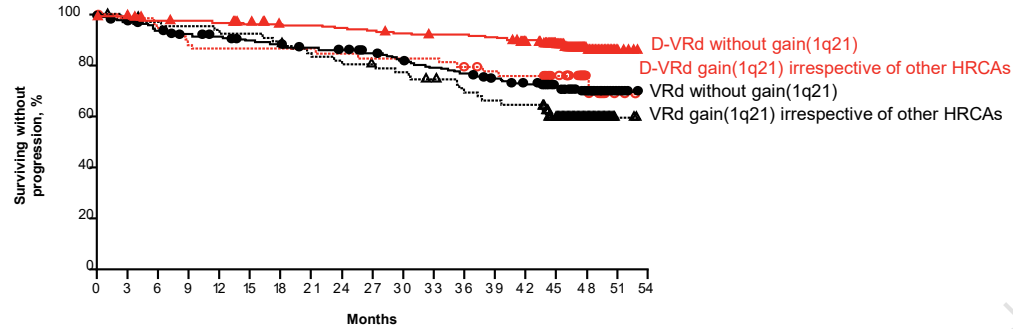
^aRevised high risk defined as the presence of 1 or more of the following HRCAs: del(17p), t(4;14), t(14;16), gain(1q21), amp(1q21).

D-VRd, daratumumab plus bortezomib, lenalidomide, and dexamethasone; HRCA, high-risk cytogenetic abnormality; ITT, intent-to-treat; PFS, progression-free survival; VRd, bortezomib, lenalidomide, and dexamethasone.



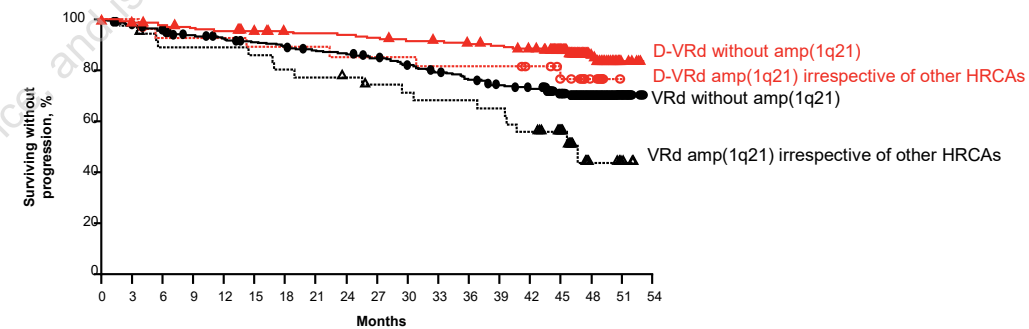
PERSEUS: PFS Based on Chromosome 1q21 Status

PFS by gain(1q21)



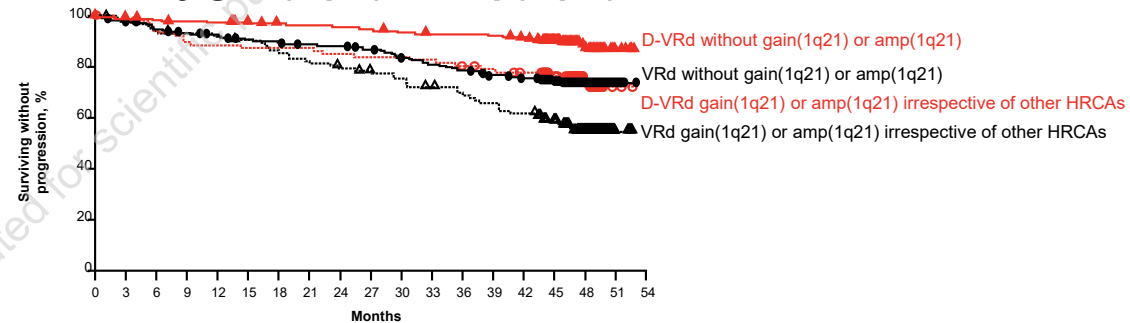
No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
VRd without amp(1q21)	283	269	257	248	243	236	232	227	224	217	208	200	195	187	179	142	55	12	0
D-VRd without amp(1q21)	296	288	280	278	277	272	268	266	264	261	257	254	254	252	244	192	78	9	0
VRd amp(1q21) irrespective of other HRCAs	71	66	64	63	61	61	59	56	54	53	50	47	43	41	40	33	12	1	0
D-VRd amp(1q21) irrespective of other HRCAs	59	57	55	51	50	50	50	49	48	48	48	48	45	43	42	34	12	2	0

PFS by amp(1q21)



No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
VRd without amp(1q21)	318	300	290	280	273	267	263	256	252	246	235	225	216	207	201	160	64	11	0
D-VRd without amp(1q21)	327	317	310	304	302	298	294	292	290	286	282	280	277	273	266	209	82	11	0
VRd amp(1q21) irrespective of other HRCAs	36	35	31	31	31	30	28	27	26	24	23	22	22	21	18	15	3	2	0
D-VRd amp(1q21) irrespective of other HRCAs	28	28	25	25	25	24	24	24	23	23	23	22	22	22	20	17	8	0	0

PFS by gain(1q21) or amp(1q21)



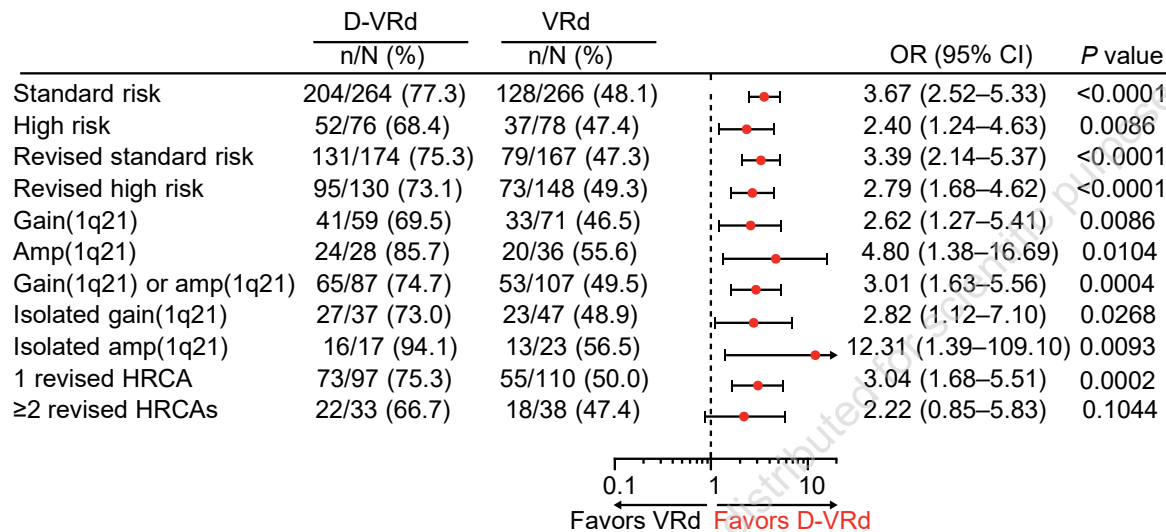
No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
VRd without gain or amp	247	234	226	217	212	206	204	200	198	193	185	178	173	166	161	127	52	10	0
D-VRd without gain or amp	268	260	255	253	252	248	244	242	241	238	234	232	232	230	224	175	70	9	0
VRd gain or amp irrespective of other HRCAs	107	101	95	94	92	91	87	83	80	77	73	69	65	62	58	48	15	3	0
D-VRd gain or amp irrespective of other HRCAs	87	85	80	76	75	74	74	74	72	71	71	70	67	65	62	51	20	2	0



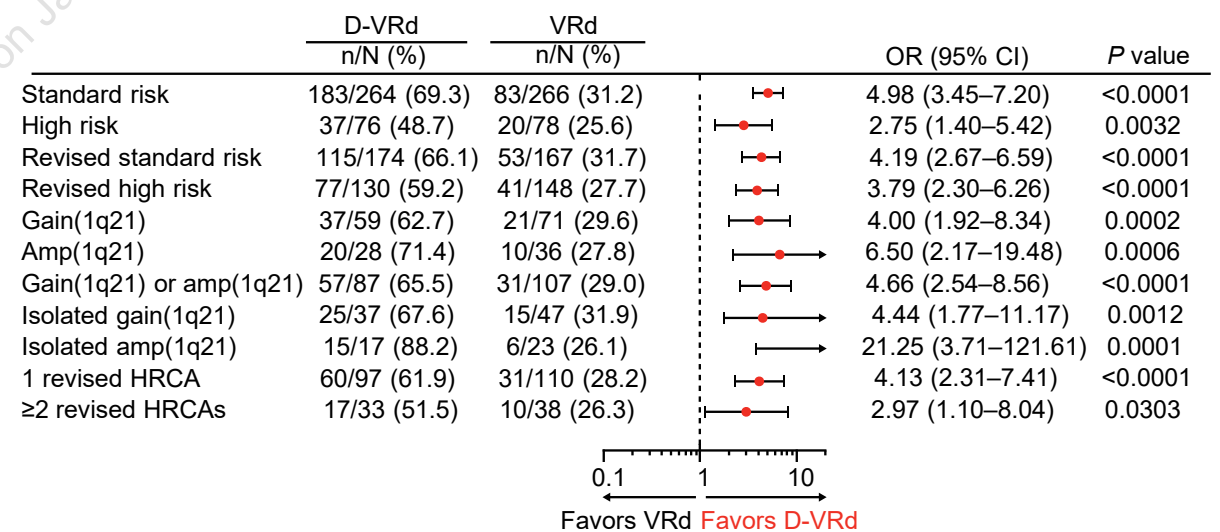
PERSEUS: MRD Negativity (10^{-5}) in Cytogenetic Risk Subgroups

Subgroup analysis of overall and sustained (≥ 12 months) MRD negativity (10^{-5} and 10^{-6}) with $\geq CR$ 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

Subgroup analysis of MRD negativity (10^{-5}) with $\geq CR$



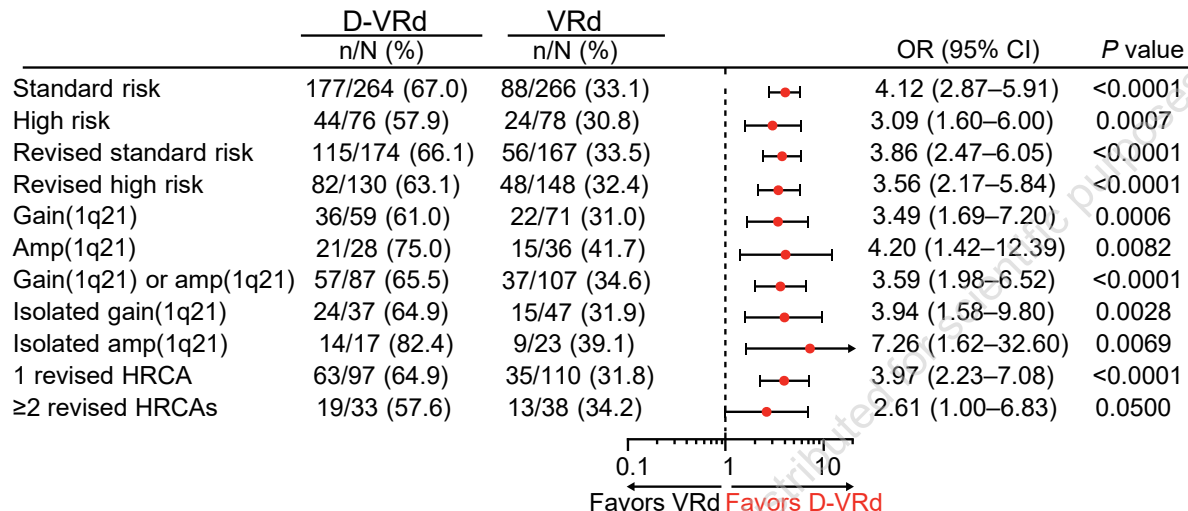
Subgroup analysis of sustained MRD negativity (10^{-5}) ≥ 12 months



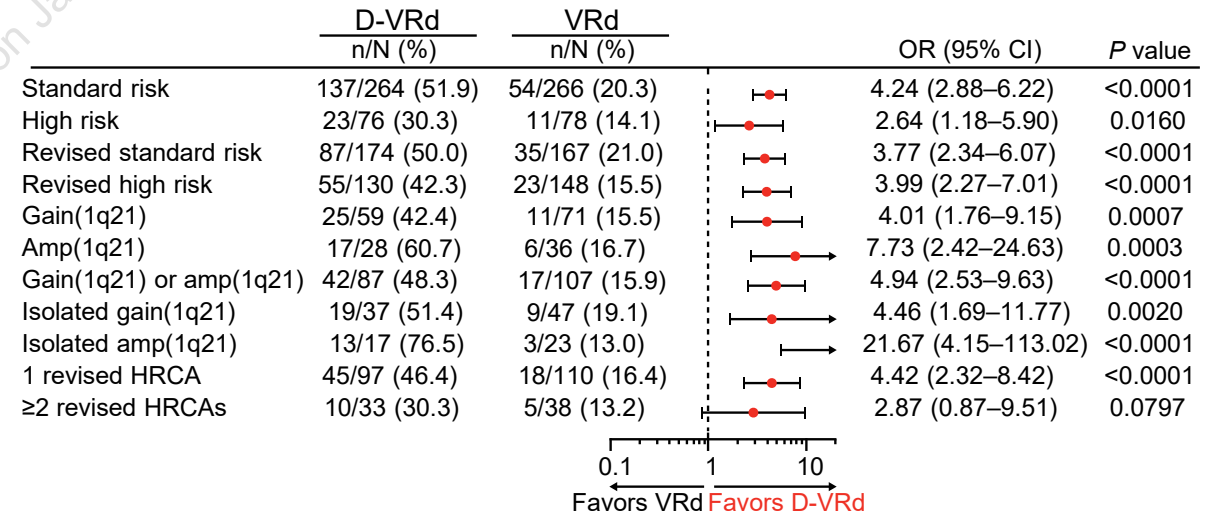
PERSEUS: MRD Negativity (10^{-6}) in Cytogenetic Risk Subgroups

Subgroup analysis of overall and sustained (≥ 12 months) MRD negativity (10^{-5} and 10^{-6}) with \geq 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

Subgroup analysis of MRD negativity (10^{-6}) with \geq CR



Subgroup analysis of sustained MRD negativity (10^{-6}) ≥ 12 months



PERSEUS: Conclusions

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

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



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