

R&D Update and 2019 ASH Data Review

December 9, 2019

Live in Orlando and via Webcast 20:00 – 21:30 EST



Forward Looking Statement

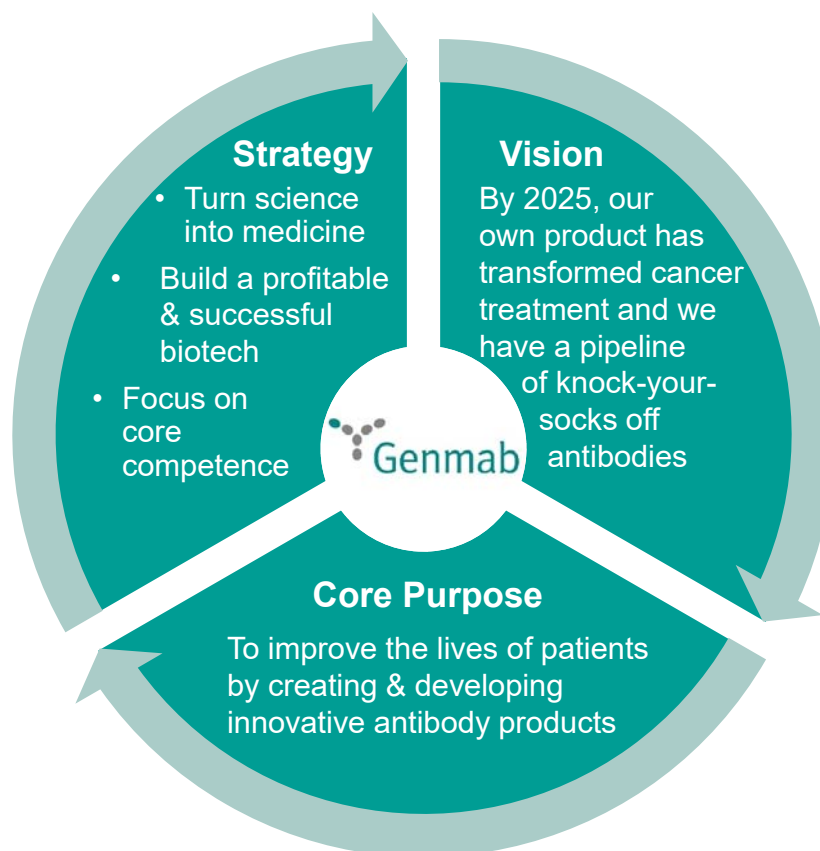
This presentation contains forward looking statements. The words “believe”, “expect”, “anticipate”, “intend” and “plan” and similar expressions identify forward looking statements. All statements other than statements of historical facts included in this presentation, including, without limitation, those regarding our financial position, business strategy, plans and objectives of management for future operations (including development plans and objectives relating to our products), are forward looking statements. Such forward looking statements involve known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by such forward looking statements. Such forward looking statements are based on numerous assumptions regarding our present and future business strategies and the environment in which we will operate in the future. The important factors that could cause our actual results, performance or achievements to differ materially from those in the forward looking statements include, among others, risks associated with product discovery and development, uncertainties related to the outcome of clinical trials, slower than expected rates of patient recruitment, unforeseen safety issues resulting from the administration of our products in patients, uncertainties related to product manufacturing, the lack of market acceptance of our products, our inability to manage growth, the competitive environment in relation to our business area and markets, our inability to attract and retain suitably qualified personnel, the unenforceability or lack of protection of our patents and proprietary rights, our relationships with affiliated entities, changes and developments in technology which may render our products obsolete, and other factors. Further, certain forward looking statements are based upon assumptions of future events which may not prove to be accurate. The forward looking statements in this document speak only as at the date of this presentation. Genmab does not undertake any obligation to update or revise forward looking statements in this presentation nor to confirm such statements to reflect subsequent events or circumstances after the date made or in relation to actual results, unless required by law.

Agenda

20.00	Welcome & Introduction: Track Record & Growth	Dr. Jan van de Winkel, President & CEO
20.10	Genmab Preclinical Candidates	Dr. Esther Breij, Sr Director, Translational Research
20.15	DuoBody-CD3xCD20: Early Data in B-Cell Non-Hodgkin Lymphomas	Dr. Pieterella Lugtenburg, Erasmus University Medical Center Rotterdam
20.25	Pipeline Q&A	
20:35	Daratumumab: COLUMBA, GRIFFIN & CANDOR	Dr. Saad Usmani, FACP, University of NC at Chapel Hill, Levine Cancer Institute
20:55	Daratumumab: ALCYONE, MAIA, POLLUX & CASTOR	Dr. Meletios A. Dimopoulos, National & Kapodistrian University of Athens, School of Medicine
21.10	Daratumumab Q&A	
21:20	2020 & Beyond: Positioned for Success	Dr. Jan van de Winkel
21:25	General Q&A	
21:30	Refreshments	

Building a Business that Transforms Cancer Treatment

Our Core Purpose, Strategy & Vision



Track Record & Growth: 20 Years of Achievement



6 Years of Profitability & Expanding Top Line



Dual-listed in US & DK with 2019 US IPO



2 Genmab Created Products on the Market



33 Cumulative INDs since 1999



18 Genmab Created Products in Ongoing Clinical Trials

Track Record & Growth: Differentiated Pipeline



Foundational Products

- DARZALEX[®],¹
- Arzerra[®],²
- Ofatumumab³[RMS]

**Solid Financial Base
Significant Potential**



Our Own Clinical Pipeline

- Tisotumab Vedotin⁴
- Enapotamab Vedotin
- HexaBody[®]-DR5/DR5
- DuoBody[®]-CD3xCD20
- DuoBody-PD-L1x4-1BB⁵
- DuoBody-CD40x4-1BB⁵
- 2019 IND:
DuoHexaBody[®]-CD37

**Potential 1st-in-Class/
Best-in-Class**



Partner Programs

- 10 product candidates in clinical development w/ partners
- Incl. 6 DuoBody products with Janssen

**Additional Shots
on Goal**



Technologies & Pre-Clinical

- DuoBody
- HexaBody
- HexElect[®]
- DuoHexaBody[®]
- Rich Pre-Clinical Pipeline

**R&D
Engine**

¹In dev. w/ Janssen; ²with Novartis; ³In dev. by Novartis; ⁴50:50 partnership Seattle Genetics; ⁵50:50 partnership BioNTech, GEN1046 & GEN1042 respectively

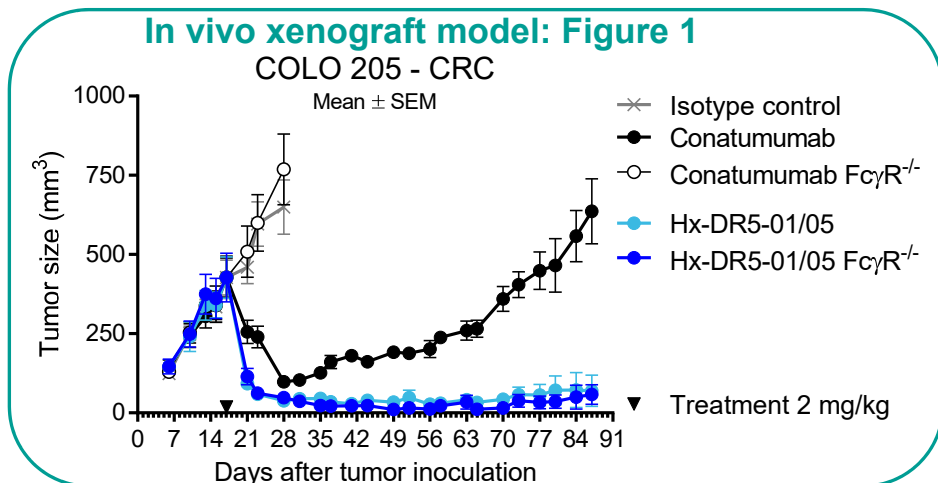
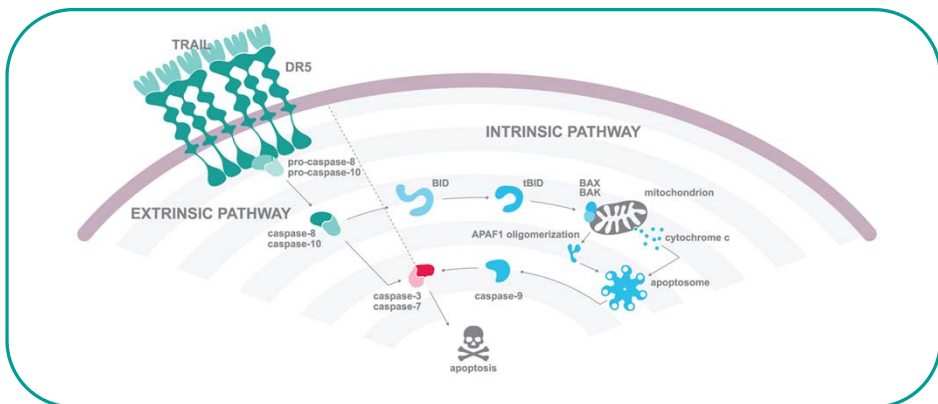
Track Record & Growth: Genmab's Proprietary* Product Candidates

Product	Target	Rights	Disease Indications	Most Advanced Development Phase				
				Pre-Clinical	I	I/II	II	III
Tisotumab vedotin	TF	50:50 Genmab / Seattle Genetics	Cervical cancer	█	█	█	█	
			Ovarian cancer	█	█	█	█	
			Solid tumors	█	█	█	█	
Enapotamab vedotin (HuMax-AXL-ADC)	AXL	Genmab	Solid tumors	█	█	█		
HexaBody-DR5/DR5 (GEN1029)	DR5	Genmab	Solid tumors	█	█			
DuoBody-CD3xCD20 (GEN3013)	CD3, CD20	Genmab	Hematological malignancies	█	█			
DuoBody-PD-L1x4-1BB (GEN1046)	PD-L1,4-1BB	50:50 Genmab / BioNTech	Solid tumors	█	█			
DuoBody-CD40x4-1BB (GEN1042)	CD40, 4-1BB	50:50 Genmab / BioNTech	Solid tumors	█	█			
Additional IND in 2019 DuoHexaBody-CD37 (GEN3009)	CD37	Genmab	Hematological malignancies	█				

*Certain product candidates in development with partners, as noted.

Track Record & Growth

GEN1029 (HexaBody-DR5/DR5) Update: Product Overview



GEN1029 (HexaBody-DR5/DR5)	
Product description rational	<p>GEN1029 (HexaBody-DR5/DR5): 1:1 mixture of two non-competing DR5-specific humanized IgG1 antibodies, with a hexamerization-enhancing Fc mutation (HexaBody molecules).</p> <p>First HexaBody product in clinical evaluation using clustering potential to improve DR5 targeting.</p> <p>Improved antibody-mediated clustering of cell surface receptors, will induce death receptor agonist activity.</p>
Potential indications	Solid tumors: colorectal, non-small cell lung, triple negative breast, small cell lung, renal clear cell, pancreas and urothelial cancers.
Status	Phase I First-in-Human dose escalation study [GCT1029-01] ongoing.
Mechanism-of-action	<p>Anti-tumor activity of HexaBody-DR5/DR5 is independent of FcγR-mediated crosslinking</p> <p>In contrast to naked DR5-specific antibody conatumumab (Fig. 1).</p>

Track Record & Growth

GEN1029 (HexaBody-DR5/DR5) Update: GCT1029-01 Study Status

GCT1029-01 trial is a First-in-Human dose escalation study to evaluate safety & recommended phase II dose.

Enrollment started in May 2018

- As of Aug. 2019, 27 patients dosed
- Majority with advanced metastatic colorectal cancer.

U.S. FDA issued partial clinical hold due to liver toxicity in Aug. 2019, led to temporary recruitment halt

- Partial clinical hold lifted Oct. 18
- After protocol amended with additional provisions to mitigate liver toxicity risk
- Enrollment of patients re-opened

Next steps

- Resume enrollment of patients
- Aiming to establish recommended Phase II dose

High level clinical findings

- Indication of target-mediated toxicity: transaminase elevation
- Preliminary indication of biological activity:
 - Near complete regression of skin metastasis in CRC patient - stabilization target lesions for almost 1 year
 - 23% tumor shrinkage after single dose in a patient with CRC [discontinued due to AE, LFT elevation]
 - Complete necrosis of primary tumor (biopsy proven) in gastric cancer patient [discontinued due to AE]
 - Partial metabolic response in TNBC patient [+ progressive disease due to new brain lesions]

Track Record & Growth: Selected Achievements in 2019



Data

ASCLEPIOS I&II

- Ofatumumab¹ in RMS

COLUMBA

- Subcutaneous daratumumab²

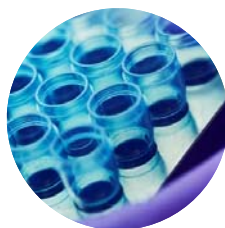
>40 abstracts accepted at ASH

- GRIFFIN
- CANDOR (Late-Breaking Abstr.)

Teprotumumab³ Ph III active TED

Enapotamab vedotin at WCLC

DuoBody-CD3xCD20 (GEN3013)
early data at ASH



Pipeline

Tisotumab vedotin⁴

- Phase I/II innovaTV 206 cervical cancer study in Japan
- Recruitment completed in Ph II innovaTV 204 cervical cancer study

First pt dosed with DuoBody-PD-L1x4-1BB (GEN1046)⁵

First pt dosed with DuoBody-CD40x4-1BB (GEN1042)⁵

IND filed for DuoHexaBody-CD37 (GEN3009)



Regulatory

DARZALEX Approvals*

- Split infusion in US & EU
- DRd (MAIA) in US & EU
- DVTd (CASSIOPEIA) in US
- RRMM as mono. in China
- DVMP (ALCYONE) in Japan

DARZALEX Submissions

- DVTd (CASSIOPEIA) in EU
- DRd (MAIA) in Japan
- SubQ in US & EU based on COLUMBA & PLEIADES

Teprotumumab

- Priority Review received for BLA, active TED



Corporate & Financial

Conclusion of MorphoSys patent infringement lawsuit

Genmab dual-listed in DK & US

Agreement w/ Janssen for HexaBody-CD38

Agreement w/ BliNK Biomedical

Agreement w/ Tempus

Targeted investment in new capabilities

*See local country prescribing information for precise indications

1. In dev. by Novartis; 2. In dev. w/ Janssen; 3. In dev. w/ Horizon Therapeutics; 4. 50:50 dev. w/ Seattle Genetics; 5. 50:50 dev. w/ BioNTech

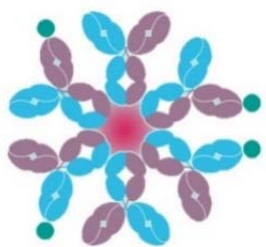
Genmab Preclinical Candidates

Dr. Esther Breij, Senior Director, Translational Research

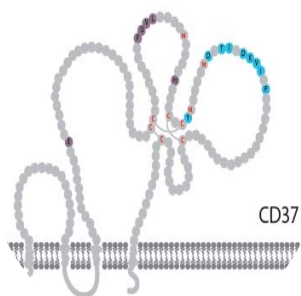


DuoHexaBody-CD37 (GEN3009)

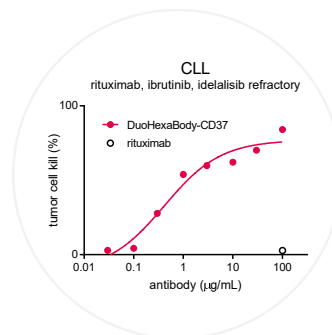
Next in clinic



Incorporates proprietary DuoBody and HexaBody technologies



Targets two different epitopes on CD37, a target broadly expressed in hematological malignancies



Promising anti-tumor activity in CLL and NHL patient cells *ex vivo*

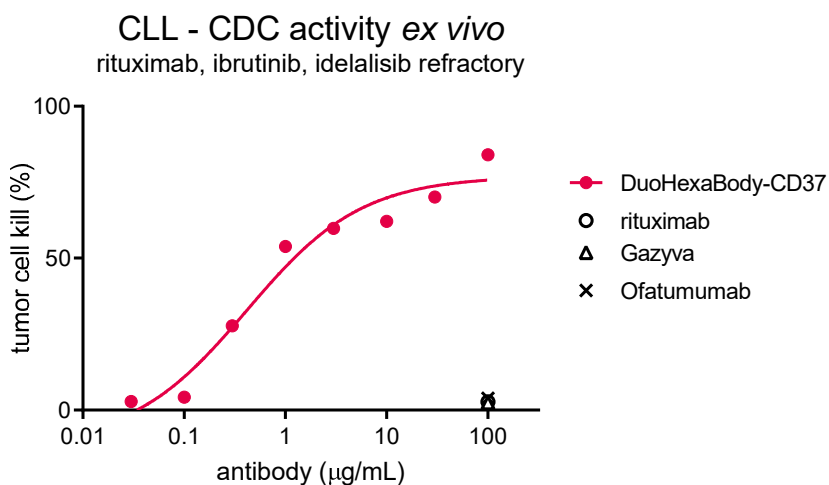


IND Submitted

DuoHexaBody-CD37 (GEN3009)

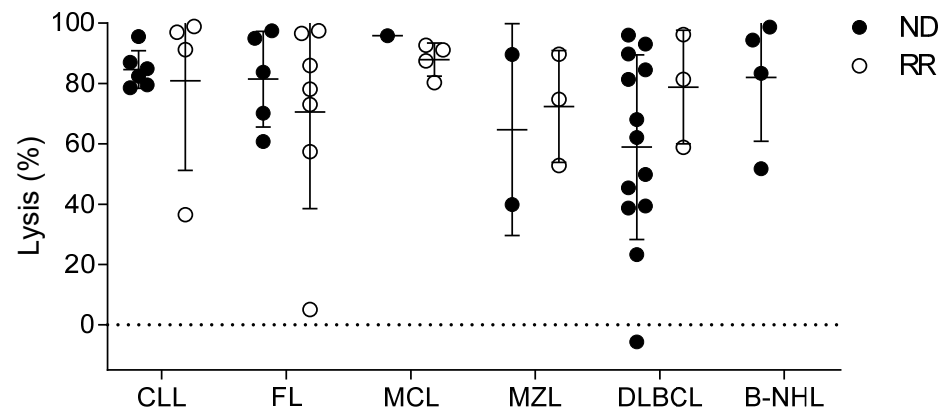
Next in clinic

- Excellent preclinical activity in CLL and NHL cells *ex vivo*, irrespective of prior treatment with SoC agents, including CD20 antibodies



Oostindie et al, ASH 2018, Poster 4170

CDC activity in newly diagnosed and relapsed/refractory patients



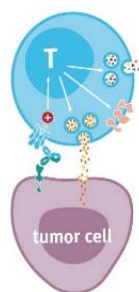
Van der Horst et al, ASH 2018, Poster 4179

DuoBody-CD3x5T4 (GEN1044)

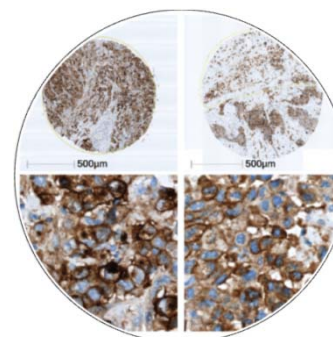
2020 IND Candidate



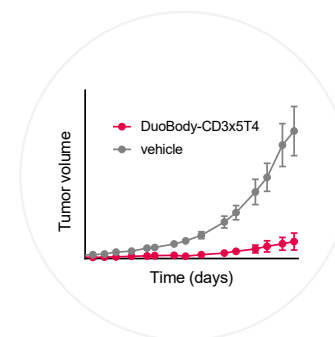
Based on proprietary DuoBody technology



CD3 bispecific, induces T-cell mediated cytotoxicity of 5T4⁺ tumor cells



5T4 is expressed in multiple solid tumors / limited expression in healthy tissue



Potent anti-tumor activity in a diversity of preclinical models

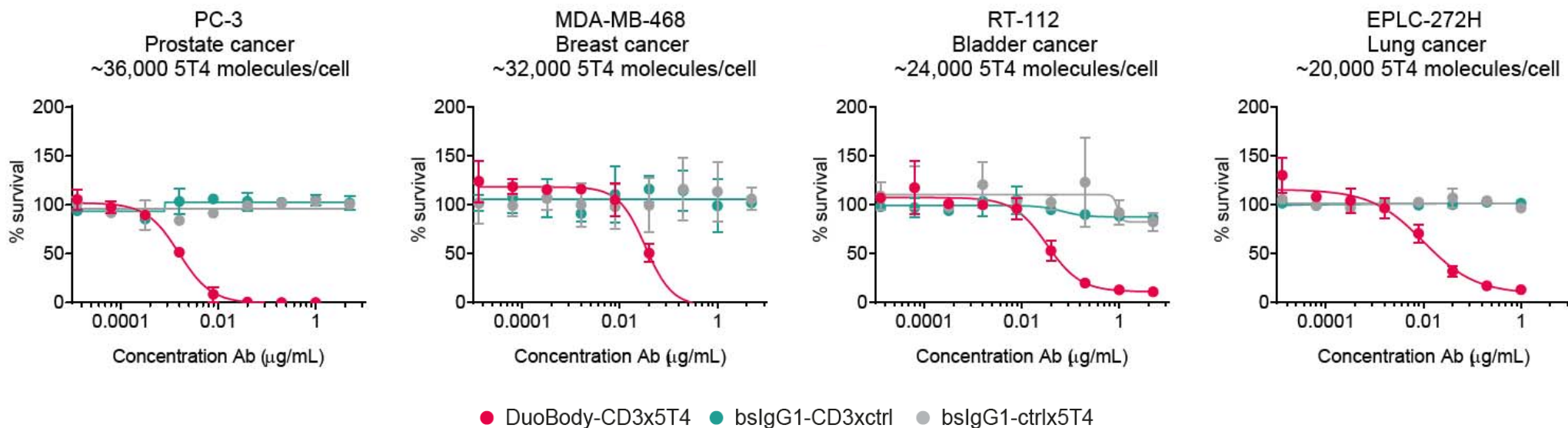
SITC 2019 Poster 783: DuoBody[®]-CD3x5T4 shows potent preclinical anti-tumor activity in vitro and in vivo in a range of cancer indications

Kristel Kemper, Ellis Gielen, Laura Smits-de Vries, Sandra Verploegen, Mischa Houtkamp, Saskia M Burm, Edward van den Brink, Rik Rademaker, Dennis Verzijl, Patrick J Engelberts, Bart ECG de Goeij, David Satijn, A Kate Sasser, Esther CW Breij

Genmab, Utrecht, the Netherlands; Copenhagen, Denmark; Princeton, NJ, USA

DuoBody-CD3x5T4: Preclinical Data

SITC 2019 Poster 783: Kemper *et al.*



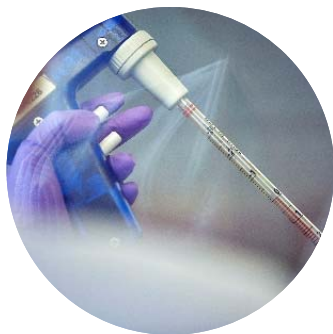
- DuoBody-CD3x5T4 induces T-cell mediated cytotoxicity of cancer cell lines derived from different solid cancers, with a range of 5T4 expression

HexaBody-CD38 (GEN3014)

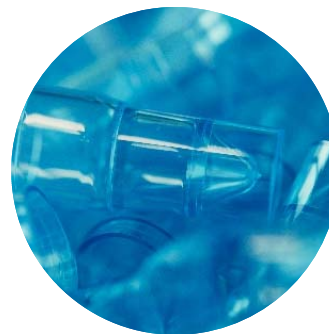
Expanding the Potential of CD38 Antibodies



Incorporates
proprietary HexaBody
technology



Highly promising data
in preclinical models for
MM, lymphoma and
leukemia



Could potentially add to
and broaden
DARZALEX franchise



IND/CTA planned for
H2 2020

ASH Poster 3106: HexaBody-CD38, a Novel CD38 Antibody with a Hexamerization Enhancing Mutation, Demonstrates Enhanced Complement-Dependent Cytotoxicity and Shows Potent Anti-Tumor Activity in Preclinical Models of Hematological Malignancies

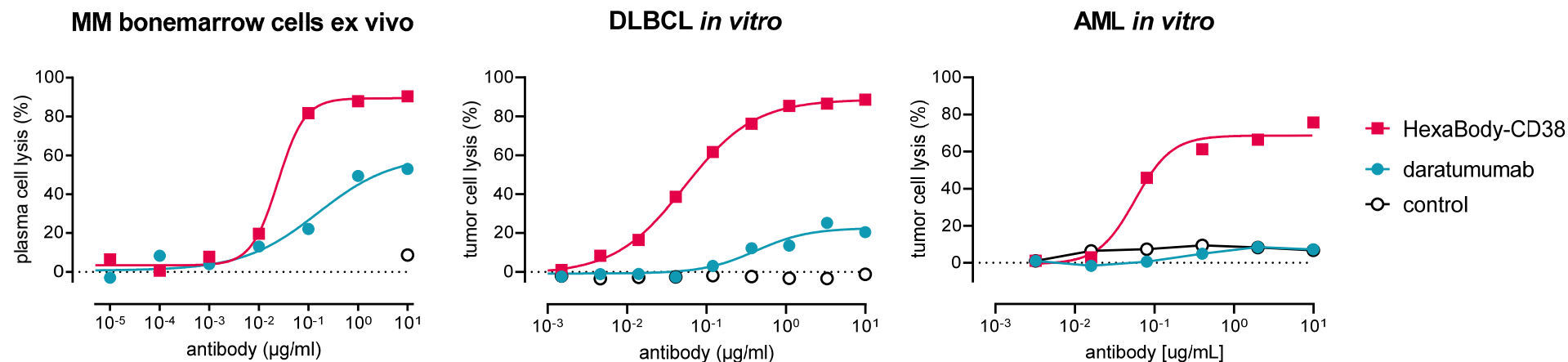
Bart ECG De Goeij¹, Maarten L Janmaat¹, Grietje Andringa¹, Laurens Kil¹, Berris Van Kessel¹, Kristine A Frerichs², Andreas Lingnau¹, Andreas Freidig¹, Tuna Mutis², A Kate Sasser¹, Esther CW Breij¹, Niels WCJ Van De Donk², Tahamtan Ahmadi¹ and David Satijn¹

¹Genmab, Utrecht, Netherlands, Princeton, NJ US

²Department of Hematology, Cancer Center Amsterdam, Amsterdam University Medical Center, Vrije Universiteit Amsterdam, The Netherlands

HexaBody-CD38: Preclinical Data

ASH 2019 Poster 3106: De Goeij *et al.*



- Superior preclinical activity in MM, DLBCL and AML cells through highly potent CDC
 - Including tumor cells with low expression of CD38 or high expression of complement-regulatory proteins
- More efficient inhibition of cyclase activity compared to daratumumab, possibly leading to more efficient reduction of immune suppression in the tumor microenvironment
- Additional effector mechanisms of HexaBody-CD38 include FcγR-dependent tumor cell kill (ADCC, ADCP and apoptosis)

A microscopic view of a cell, possibly a B-cell, with a pipette tip positioned above it. The cell is illuminated with blue light, and the pipette tip is also illuminated with blue light. The background is dark blue with some blurred light spots.

DuoBody-CD3xCD20:

**Early Data in B-Cell
Non-Hodgkin
Lymphomas**

Dr. Pieterella Lugtenburg, Erasmus University Medical Center
Rotterdam



First-in-Human, Phase 1/2 Trial to Assess the Safety and Clinical Activity of Subcutaneous GEN3013 (DuoBody[®]-CD3×CD20) in B-Cell Non-Hodgkin Lymphoma

Pieterella Lugtenburg^{1,2}, Rogier Mous^{1,3}, Michael Roost Clausen⁴, Martine E.D. Chamuleau^{1,5}, Peter Johnson⁶, Kim Linton⁷, Simon Rule⁸, Roberto S. Oliveri⁹, Dena DeMarco¹⁰, Ida H. Hiemstra¹¹, Guang Chen¹⁰, Ada Azaryan¹⁰, Manish Gupta¹⁰, Tahamtan Ahmadi¹⁰, Martin Hutchings¹²

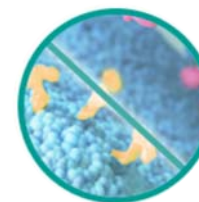
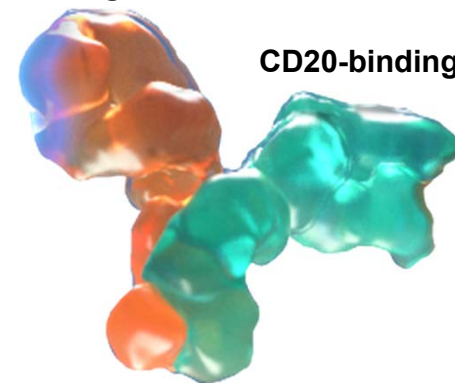
¹HOVON Lunenburg Lymphoma Phase I–II Consortium; ²Erasmus MC Cancer Institute, Rotterdam, Netherlands; ³Universitair Medisch Centrum Utrecht, Utrecht, Netherlands; ⁴Vejle Hospital, Vejle, Denmark; ⁵VU University Medical Center, Amsterdam, Netherlands; ⁶Cancer Research UK Clinical Centre, Southampton, United Kingdom; ⁷Christie Hospital, Manchester, United Kingdom; ⁸Plymouth University Medical School, Plymouth, United Kingdom; ⁹Genmab, Copenhagen V, Denmark; ¹⁰Genmab, Princeton, NJ; ¹¹Genmab, Utrecht, Netherlands; ¹²Rigshospitalet, Copenhagen, Denmark

Background: GEN3013 (DuoBody[®]-CD3×CD20)

- Despite recent advances in the treatment of B-NHL, majority of patients still relapse or become refractory
 - There is an unmet need for novel therapies
 - T-cell redirection therapy has shown promising anti-tumor activity in B-NHL
- GEN3013 is a SC administered, bispecific CD3×CD20 immunotherapy created via Fab-arm exchange using the unique DuoBody[®] technology platform
 - Retains regular IgG1 antibody structure
 - Long plasma half-life
- Effector function-silenced Fc region ensures:
 - Target-specific T-cell activation
 - No ADCC, ADCP or CDC induction

CD3-binding arm

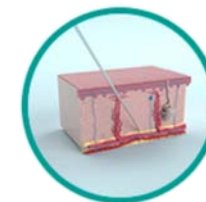
CD20-binding arm



Silencing of Fc effector functions (ADCC, ADCP, CDC)



Preserved FcRn binding induces long half-life

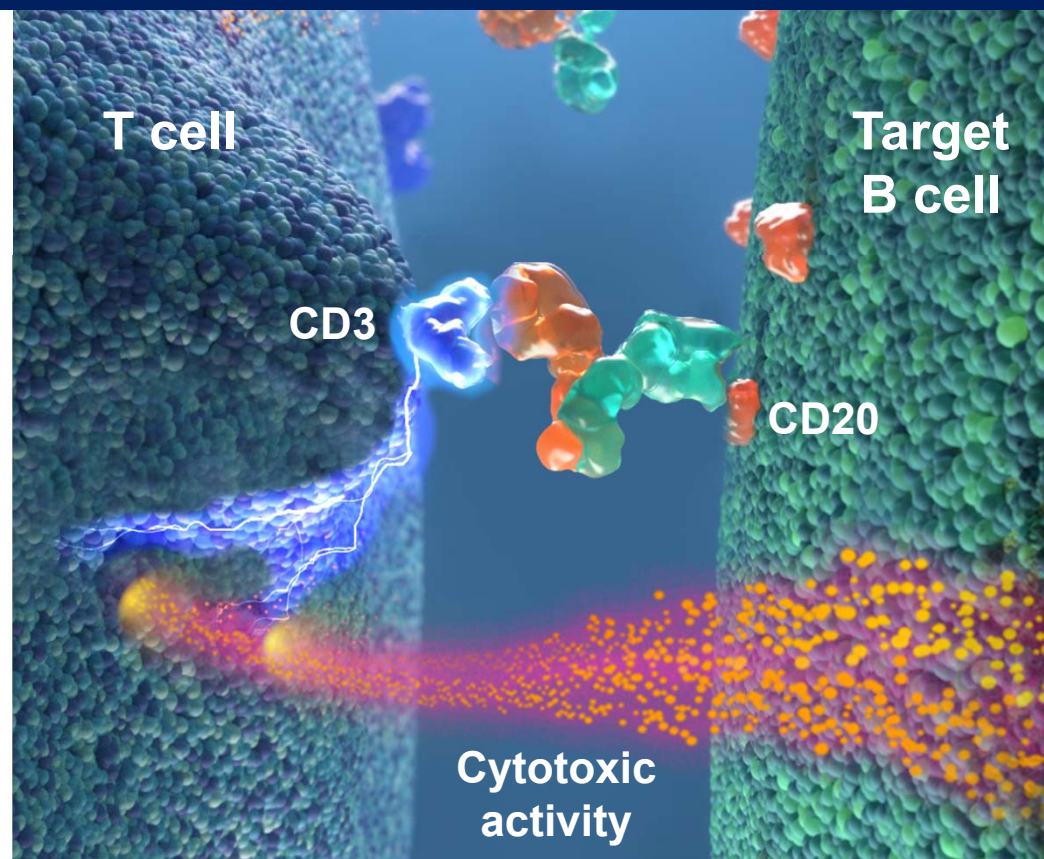


Subcutaneous delivery: improved safety and dosing convenience

GEN3013 is a novel subcutaneously administered CD3×CD20 bispecific immunotherapy

MOA and Preclinical Data: GEN3013 (DuoBody[®]-CD3×CD20)

- GEN3013:
 - Promotes T-cell activation and expansion
 - Induces rapid T cell-mediated killing of CD20+ cells, dependent on simultaneous binding of CD3 and CD20
 - Retains activity in presence of CD20 mAbs
- GEN3013 versus three other CD3×CD20 bispecific antibodies showed significantly higher potency at lower doses in vitro*
- SC administration, versus IV, resulted in:**
 - Comparable long-lasting B-cell depletion
 - Potent depletion of CD20-expressing cells from peripheral lymphoid organs
 - Comparable bioavailability
 - Reduced and delayed C_{max} levels
 - Reduced peak cytokine levels in plasma



Preclinical data with subcutaneous GEN3013 indicate potential for best-in-class therapy

* Comparator CD3×CD20 bispecific antibodies were produced based on CDR and constant region sequences available from published patent applications and literature: WO2014047231, WO2009018411 (Regeneron); US20170349657 A1, US20140370013 (Xencor); Rodrigues, 1992, US20060034835 A1, US20140242080 A1, US20150166661 (Genentech); ** In cynomolgus monkeys. Duell et al. Clin Pharmacol Ther. 2019;106:781–791; Hiemstra et al. Poster PS1031 presented at EHA 2019.

Study Design: Multicenter, Phase 1/2 Trial (NCT03625037)

Key inclusion criteria

- Adults with relapsed/refractory CD20+ mature B-NHL
- Prior treatment with anti-CD20 mAb
- ECOG PS 0–2
- Measurable disease
- Adequate renal, liver, and hematologic function

Study objectives

Primary

- Maximum tolerated dose (MTD)
- Recommended Phase 2 dose (RP2D)

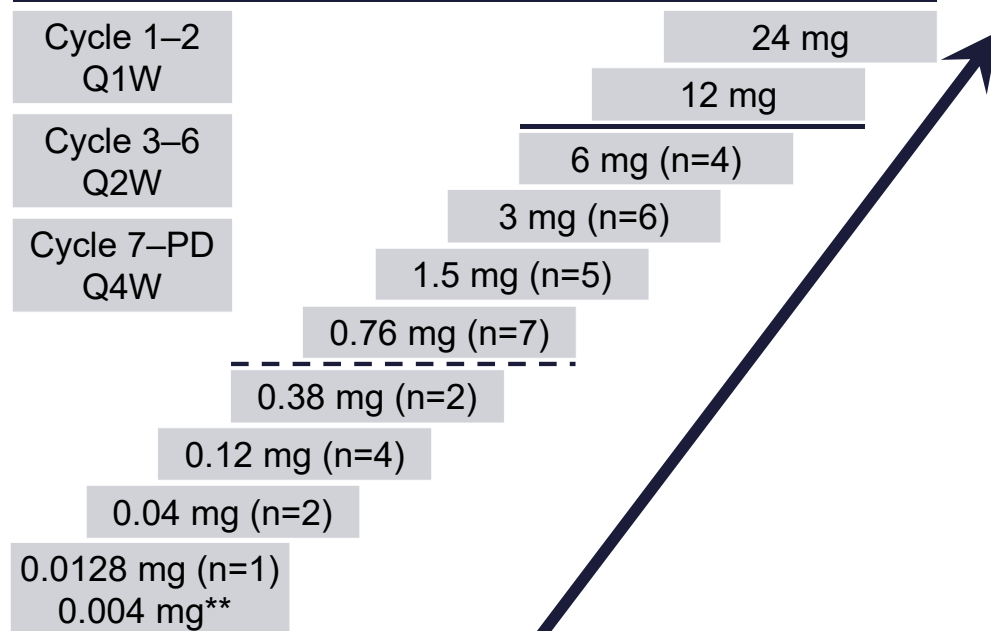
Secondary

- Pharmacokinetics/ pharmacodynamics
- Immunogenicity
- Anti-tumor activity

Data cut-offs: 2-DEC-2019 (efficacy), 15-OCT-2019 (safety)
CT or MRI scans: Weeks 8, 16, 24 and every 12 weeks thereafter

Dose escalation* (ongoing)

GEN3013 subcutaneously administered in 28-day cycles



**Open-label, first-in-human GCT3013-01 study is ongoing;
MTD and RP2D not yet determined**

* Modified Bayesian optimal interval design consisting of accelerated and standard titration. Accelerated titration includes single-patient cohorts; up to two patients may be added (at the currently investigated dose) to obtain additional PK/PD biomarker data.
** MABEL. Standard titration contains cohorts of 3 patients. Priming doses/final doses (mg) were as follows: 0.004/0.0128, 0.0128/0.04, 0.04/0.12, 0.12/0.38, 0.04/0.76, 0.04/0.25/1.5, 0.04/0.5/3, 0.04/0.5/6, 0.04/0.8/12.
Cheson et al. J Clin Oncol 2014;32:3059–67; NCT03625037: <https://clinicaltrials.gov/ct2/show/NCT03625037>

Baseline Characteristics: Histology

	All patients (0.004–6 mg) n=31
Diffuse large B-cell lymphoma (DLBCL) De novo Transformed	20 (64.5%) 9 (29.0%) 11 (35.5%)
Follicular lymphoma (FL)	7 (22.6%)
High-grade B-cell lymphoma (HGBCL)	2 (6.5%)
Mantle cell lymphoma (blastoid variant)	1 (3.2%)
Marginal zone lymphoma	1 (3.2%)

Majority of patients (74%) had aggressive B-NHL

Baseline Characteristics

	All patients (0.004–6 mg) n=31	DLBCL/HGBCL n=22	FL n=7
Median age, years (range)	65.0 (21–80)	58.5 (21–80)	73.0 (35–80)
Male, n (%)	23 (74.2%)	18 (81.8%)	4 (57.1%)
Median time since diagnosis, months (range)	25.0 (6–330)	17.3 (6–247)	106.4 (25–330)
Prior lines of therapy, median (range)	3.0 (1–18)	3.0 (1–6)	5.0 (2–18)
Prior therapies			
Anti-CD20 mAb	31 (100%)	22 (100%)	7 (100%)
Anthracyclines	27 (87.1%)	21 (95.5%)	5 (71.4%)
Alkylating agents	31 (100%)	22 (100%)	7 (100%)
Autologous stem cell transplantation*	5 (16.1%)	4 (18.2%)	1 (14.3%)
Refractory to, n (%)			
Most recent systemic therapy	23 (74.2%)	18 (81.8%)	3 (42.9%)
Most recent anti-CD20 mAb (any line)	23 (74.2%)	17 (77.3%)	4 (57.1%)
Most recent anti-CD20 mAb (last line)	20 (64.5%)	15 (68.2%)	3 (42.9%)
Alkylating agents	22 (71.0%)	17 (77.3%)	3 (42.9%)

Patients were heavily pre-treated; majority of patients were refractory to anti-CD20 therapy

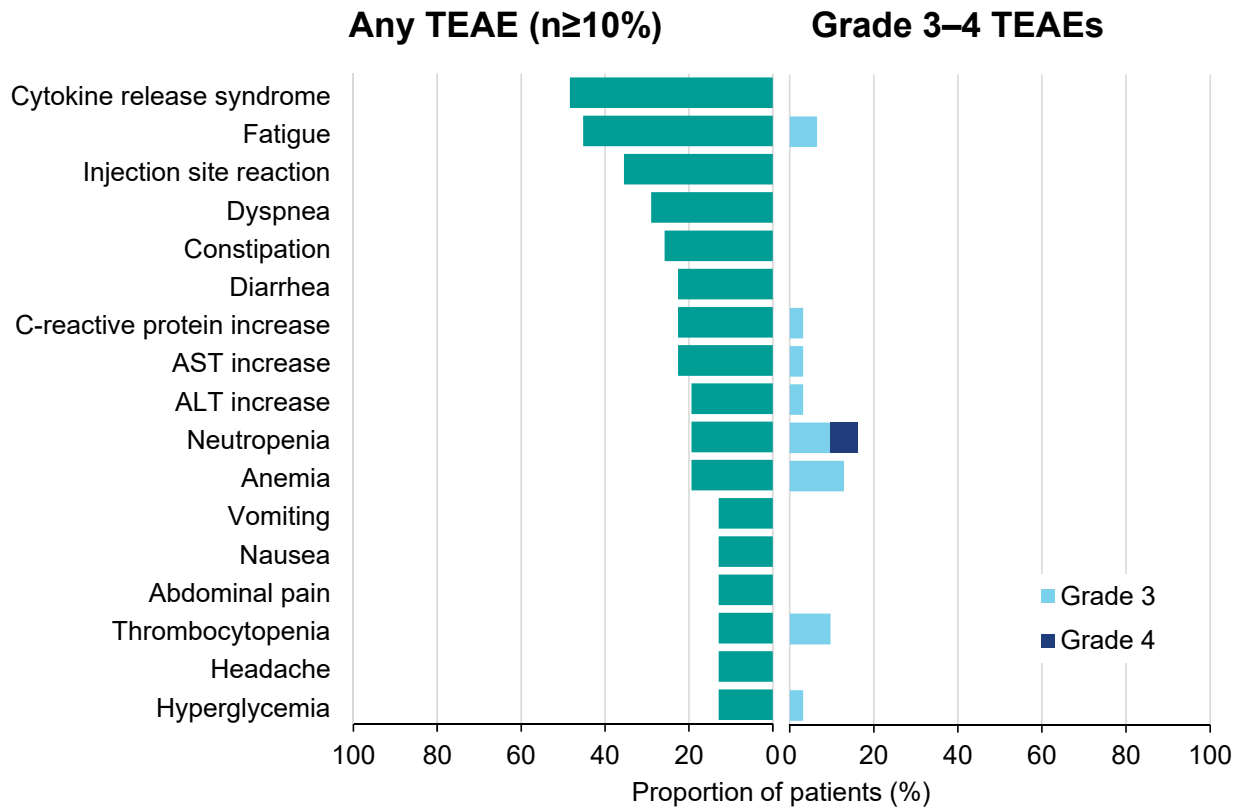
* Following high-dose chemotherapy.
Data cut-off: 15-OCT-2019.

Patient Disposition and Exposure

	≥0.76 mg (0.76–6 mg) n=22	All doses (0.004–6 mg) n=31
Median duration of follow-up, weeks (range)	7.8 (0–26.1)	10.9 (0–43.5)
Treatment ongoing, n (%)	11 (50.0%)	11 (35.5%)
Treatment discontinued, n (%) Due to disease progression	11 (50.0%)	20 (64.5%)
Number of GEN3013 dose administrations, median (range)	5.5 (1–14)	6.0 (1–16)
Median duration of exposure, days (range)	43 (7–127)	43 (7–171)

Treatment is still ongoing in 11 patients; treatment discontinuations were due to disease progression only

Treatment-Emergent Adverse Events



	≥0.76 mg (0.76–6 mg) n=22	All doses (0.004–6 mg) n=31
Any treatment-emergent AE, n (%)	22 (100%)	31 (100%)
Serious treatment-emergent AEs, excluding disease progression, n (%)	9 (41%)	11 (35%)
Grade 3–4 treatment-emergent AEs, n (%)	14 (63.6%)	21 (67.7%)

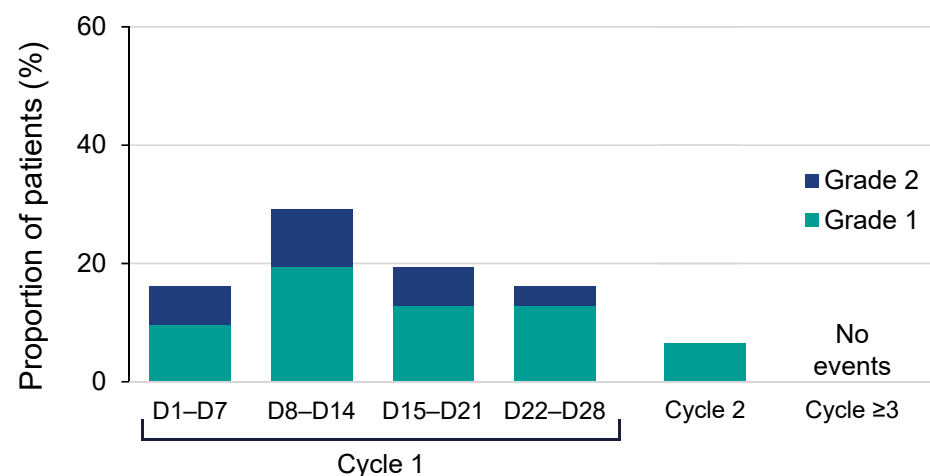
- No patients experienced febrile neutropenia
- Injection site reactions were Grade 1 only; resolved without intervention in all cases prior to next injection

**The majority of treatment-emergent AEs were Grade 1–2;
no DLTs were observed**

Treatment-Emergent Adverse Events of Special Interest

	≥0.76 mg (0.76–6 mg) n=22	All doses (0.004–6 mg) n=31
Tumor lysis syndrome	0 (0%)	0 (0%)
Neurological symptoms (change in CARTOX-10 score)	0 (0%)	0 (0%)
Cytokine release syndrome	12 (54.5%)	15 (48.4%)
Grade 1	8 (36.4%)	9 (29.0%)
Grade 2	4 (18.2%)	6 (19.4%)
Grade ≥3	0 (0%)	0 (0%)
Symptoms of cytokine release syndrome (n≥5%)		
Pyrexia	12	15
Chills	2	2
Hypotension	4	6
Tachycardia	3	5
Dyspnea	2	2
Hypoxia	2	2

- Majority of CRS events occurred in Cycle 1
- 3 patients received treatment with tocilizumab
- Risk of CRS was mitigated with the use of a priming dose and premedication with corticosteroids, antihistamines and antipyretics

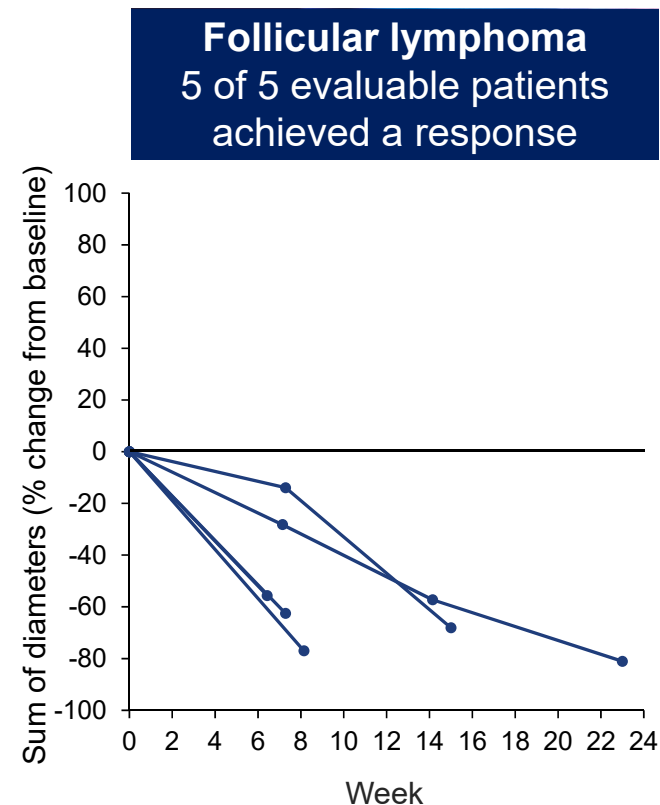
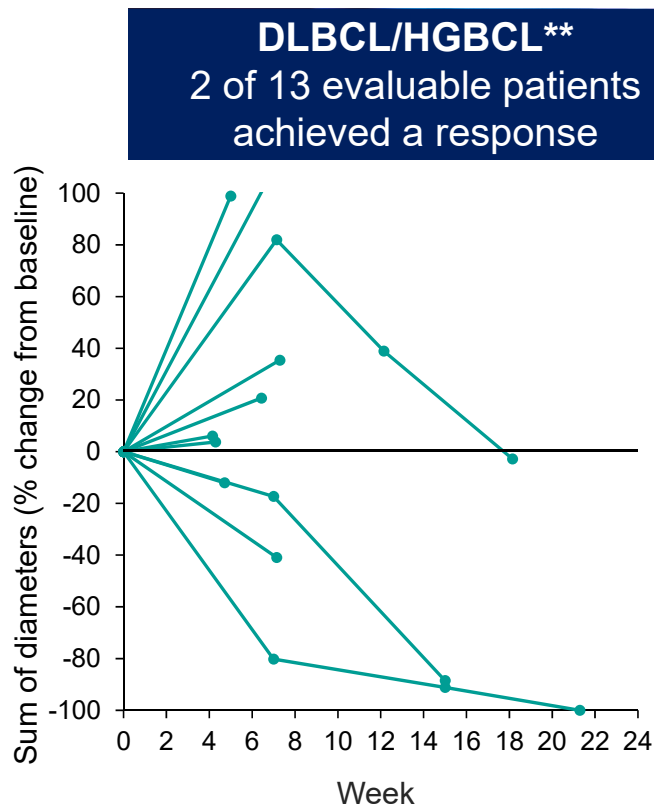


All CRS events were mild or moderate (Grade 1–2); 100% of CRS events resolved; no tumor lysis syndrome or neurological symptoms

Efficacy of GEN3013 ≥ 0.76 mg in R/R B-NHL

	≥ 0.76 mg
Total patients	22
DLBCL/HGBCL	14
FL	6
Other B-NHL	2
Evaluable patients*	19
DLBCL/HGBCL	13
FL	5
Other B-NHL	1
ORR, n (%)	7 (36.8%)
CR	1 (5.3%)
PR	6 (31.6%)
SD	4 (21.1%)
PD	8 (42.1%)

- One additional patient with DLBCL achieved CR following treatment with GEN3013 0.120 mg



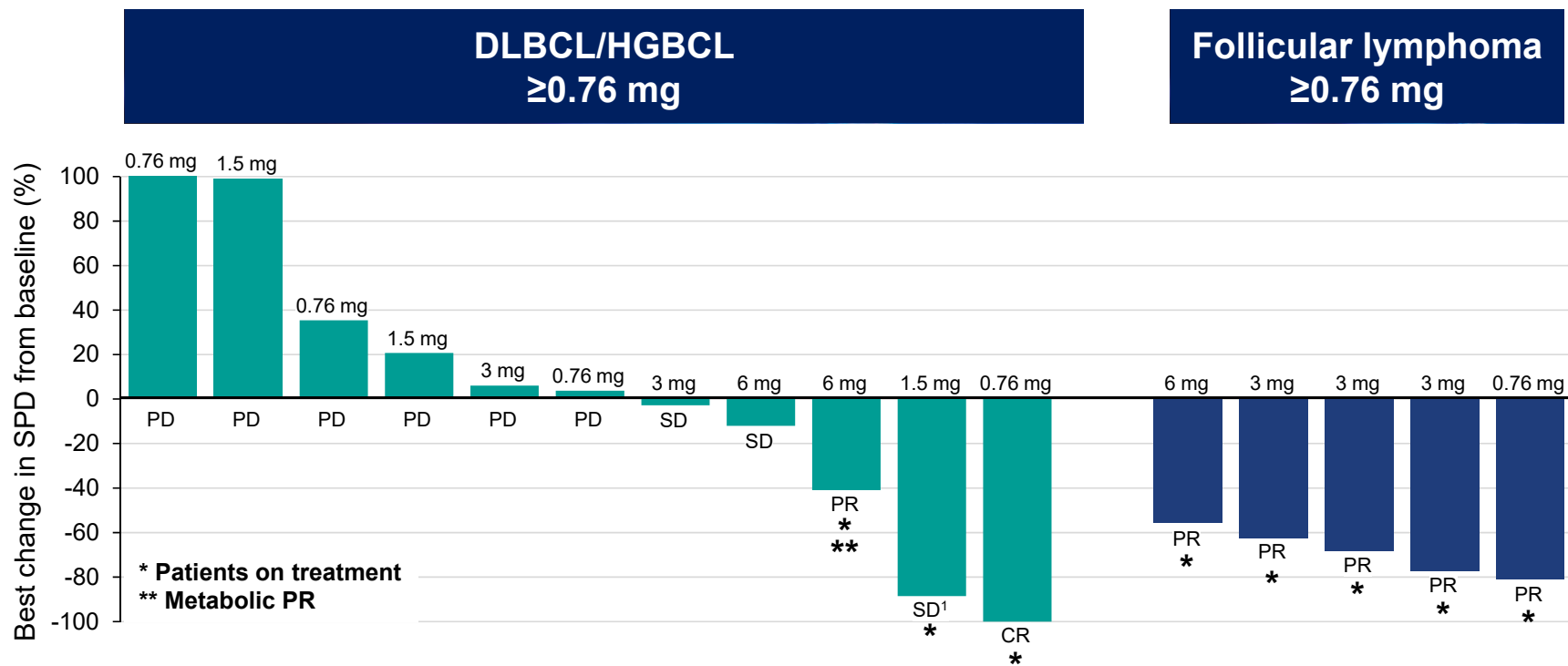
GEN3013 administered subcutaneously demonstrated anti-tumor activity during dose escalation

* 3 patients did not have a follow-up; majority of results based on CT scan.

** 2 patients who achieved PD not shown in graph due to not having SPD entry at time of data cut-off.

Data cut-off: 2-DEC-2019.

Anti-Tumor Activity



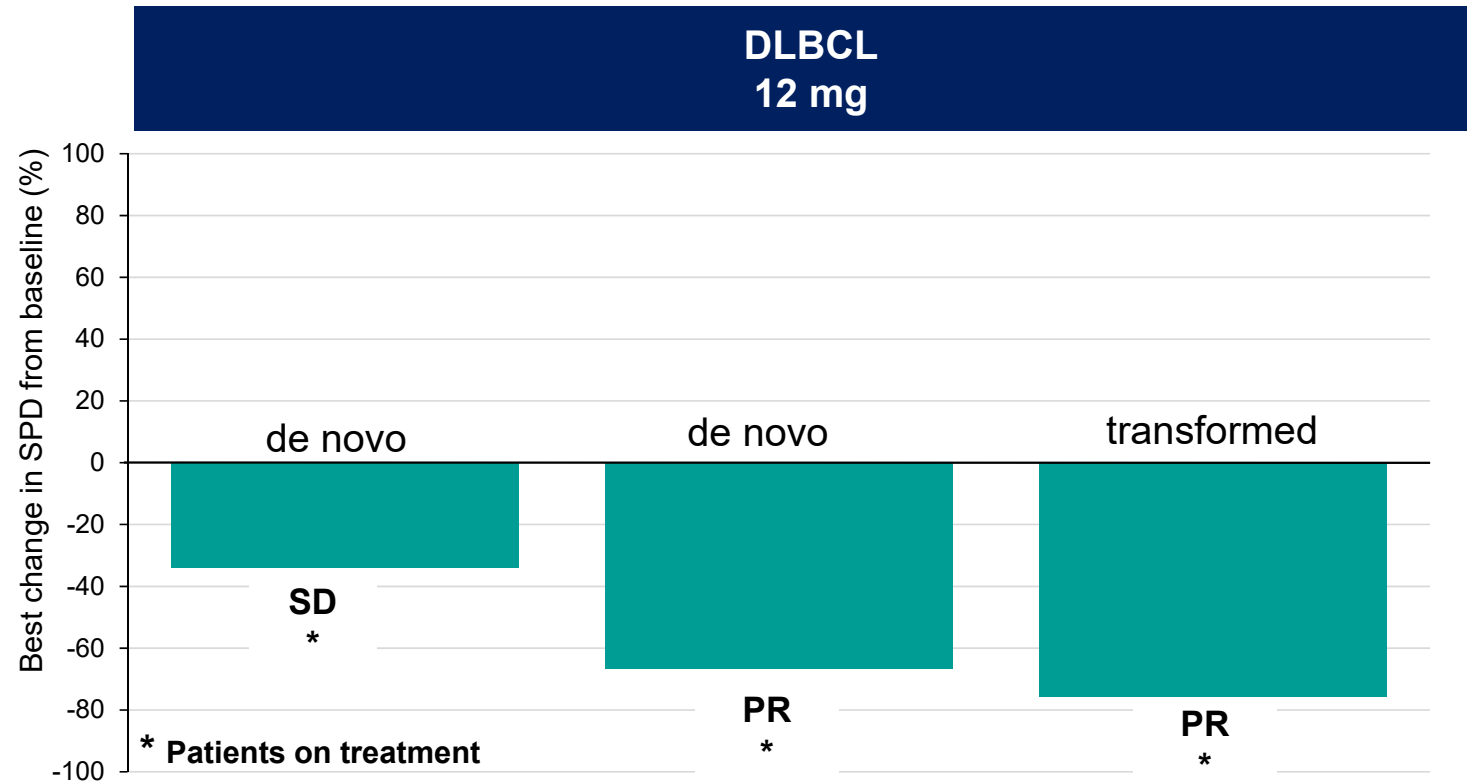
Highly encouraging clinical activity observed across aggressive and indolent NHL subtypes at low dose levels

¹ Patient developed new lesions at second responses assessment.

2 patients who achieved PD not shown in DLBCL/HGBCL graph due to not having SPD entry at time of data cut-off. 1 additional patient with DLBCL achieved CR following treatment with GEN3013 0.120 mg. Data cut-off: 2-DEC-2019.

New Data

Dose Escalation (12 mg) in 3/3 Evaluable Patients with DLBCL



Greater DLBCL clinical activity seen with higher doses, consistent with pharmacokinetic modeling

Summary and Conclusions

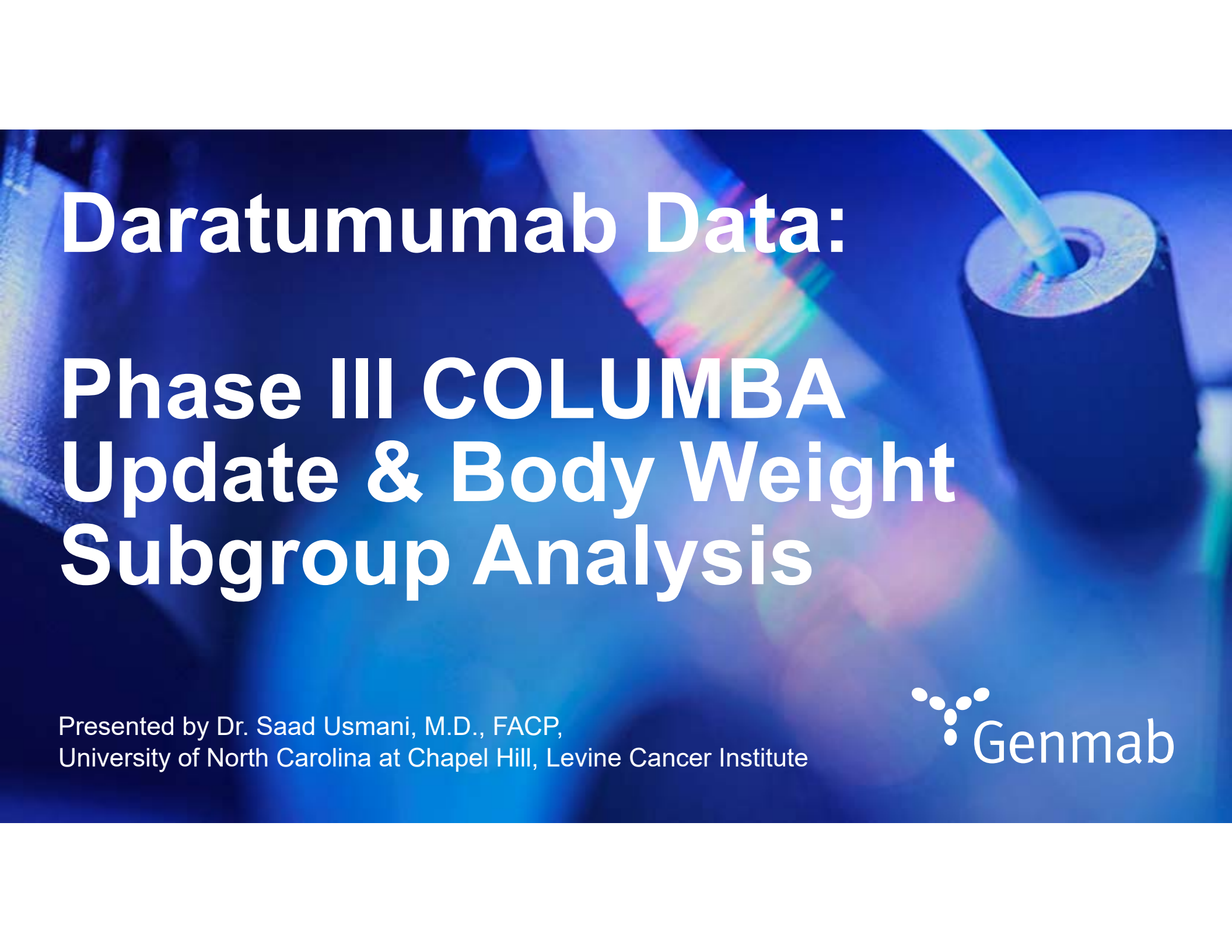
- GEN3013 is a SC administered, bispecific CD3×CD20 immunotherapy under development for the treatment of B-NHL
- Preclinical data indicate potential for best-in-class therapy
- The SC administration may offer advantages, such as slow absorption and lower C_{max} , reducing the risk of high-grade CRS events, efficient delivery of GEN3013 to lymph nodes, and convenience for patients
- Dose escalation of GEN3013 resulted in no apparent increase in toxicities:
 - Most AEs were mild to moderate, transient, and reversible
 - No DLTs were observed; MTD has not been reached
 - No Grade ≥ 3 CRS events were observed
 - No tumor lysis syndrome or CRS-related neurological toxicities (based on CARTOX-10) have been observed
- Highly encouraging anti-tumor activity observed across aggressive and indolent NHL subtypes at low dose levels
 - PR or better response seen in 5/5 (100%) patients with FL receiving GEN3013 ≥ 0.76 mg and 3/5 (60%) patients with DLBCL receiving GEN3013 ≥ 6 mg
- In conclusion, GEN3013 has shown promising early clinical activity at low doses in a heavily pretreated patient population

**Further dose escalation of subcutaneous GEN3013 is ongoing;*
new clinical studies will be initiated once RP2D is established**

* NCT03625037: <https://clinicaltrials.gov/ct2/show/NCT03625037>

Pipeline Q&A





Daratumumab Data: Phase III COLUMBA Update & Body Weight Subgroup Analysis

Presented by Dr. Saad Usmani, M.D., FACP,
University of North Carolina at Chapel Hill, Levine Cancer Institute

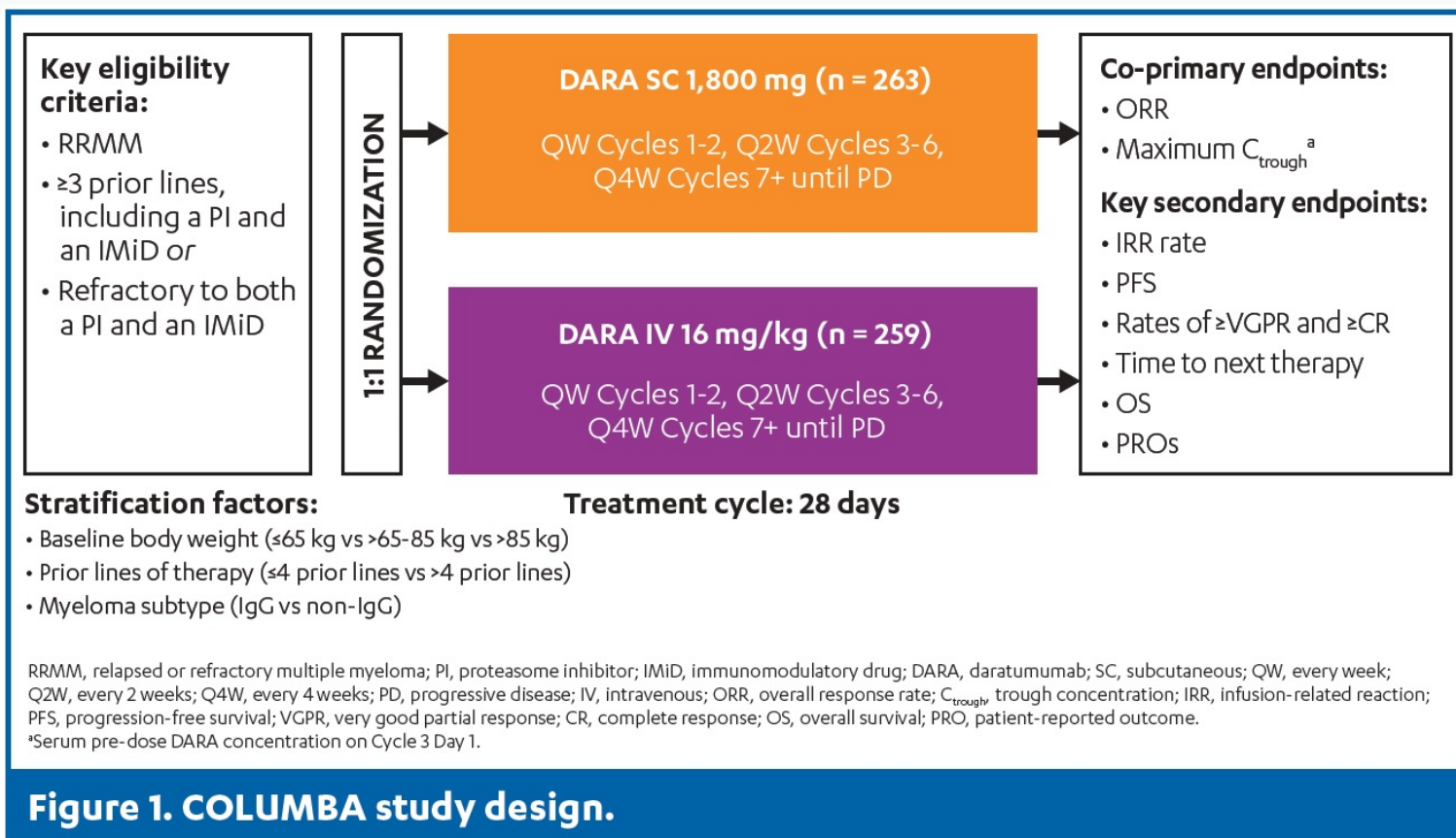


Poster 1865: Randomized, Open-label, Non-inferiority, Phase 3 Study of Subcutaneous (SC) Versus Intravenous (IV) Daratumumab (DARA) Administration in Patients with Relapsed or Refractory Multiple Myeloma: COLUMBA Update

Saad Z. Usmani,^{1,*} Maria-Victoria Mateos,² Hareth Nahi,³ Sebastian Grosicki,⁴ Vladimir Vorobyev,⁵ Ivan Spicka,⁶ Vania Hungria,⁷ Sibirina Korenkova,⁸ Max Flogegard,⁹ Joan Blade,¹⁰ Philippe Moreau,¹¹ Martin Kaiser,¹² Shinsuke Iida,¹³ Jacob Laubach,¹⁴ Tara Masterson,¹⁵ Kristen Lantz,¹⁵ Lisa O'Rourke,¹⁵ Christoph Heuck,¹⁵ Xiang Qin,¹⁶ Dolly A. Parasrampur,¹⁵ Ming Qi,¹⁵ Nizar Bahlis¹⁷

¹Levine Cancer Institute/Atrium Health, Charlotte, NC, USA; ²University Hospital of Salamanca/IBSAL, Salamanca, Spain; ³Karolinska Institute, Department of Medicine, Division of Hematology, Karolinska University Hospital at Huddinge, Stockholm, Sweden; ⁴Department of Hematology and Cancer Prevention, School of Public Health, Silesian Medical University, Katowice, Poland; ⁵S. P. Botkin City Clinical Hospital, Moscow, Russian Federation; ⁶General Faculty Hospital, Prague, Czech Republic; ⁷Santa Casa Medical School, São Paulo, Brazil; ⁸Kiev Center for Bone Marrow Transplantation, Kiev, Ukraine; ⁹Department of Internal Medicine, Falun General Hospital, Falun, Sweden; ¹⁰IDIBAPS, Hospital Clinic de Barcelona, Barcelona, Spain; ¹¹University Hospital of Nantes, Nantes, France; ¹²Division of Molecular Pathology, Institute of Cancer Research, Sutton, UK; ¹³Department of Hematology and Oncology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan; ¹⁴Department of Hematology and Oncology, Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA, USA; ¹⁵Janssen Research & Development, LLC, Spring House, PA, USA; ¹⁶Janssen Research & Development, LLC, Raritan, NJ, USA; ¹⁷Arnie Charbonneau Cancer Institute, University of Calgary, Calgary, AB, Canada

Poster 1865: Randomized, Open-label, Non-inferiority, Phase 3 Study of Subcutaneous (SC) Versus Intravenous (IV) Daratumumab (DARA) Administration in Patients with Relapsed or Refractory Multiple Myeloma: COLUMBA Update



Poster 1865: Randomized, Open-label, Non-inferiority, Phase 3 Study of Subcutaneous (SC) Versus Intravenous (IV) Daratumumab (DARA) Administration in Patients with Relapsed or Refractory Multiple Myeloma: COLUMBA Update

Table 2. Most Common Any-grade (>10%) and Grade 3/4 (>5%) TEAEs^a

TEAE, n (%)	DARA IV (n = 258)		DARA SC (n = 260)	
	Any grade	Grade 3/4	Any grade	Grade 3/4
Hematologic				
Anemia	64 (25)	38 (15)	71 (27)	36 (14)
Thrombocytopenia	49 (19)	35 (14)	51 (20)	36 (14)
Neutropenia	35 (14)	20 (8)	51 (20)	34 (13)
Lymphopenia	17 (7)	16 (6)	20 (8)	14 (5)
Nonhematologic				
Pyrexia	36 (14)	2 (1)	37 (14)	1 (<1)
Back pain	36 (14)	7 (3)	28 (11)	5 (2)
Cough	35 (14)	0 (0)	25 (10)	2 (1)
Diarrhea	31 (12)	1 (<1)	40 (15)	2 (1)
Nausea	30 (12)	2 (1)	24 (9)	0 (0)
Chills	32 (12)	2 (1)	15 (6)	1 (<1)
Upper respiratory tract infection	29 (11)	2 (1)	41 (16)	0 (0)
Fatigue	29 (11)	3 (1)	31 (12)	2 (1)
Dyspnea	28 (11)	2 (1)	14 (5)	2 (1)
Hypertension	23 (9)	15 (6)	15 (6)	11 (4)
Arthralgia	18 (7)	0 (0)	28 (11)	1 (<1)

TEAE, treatment-emergent adverse event; DARA, daratumumab; IV, intravenous; SC, subcutaneous.
^aSafety population, defined as randomized patients who received ≥1 dose of DARA.

Poster 1865: Randomized, Open-label, Non-inferiority, Phase 3 Study of Subcutaneous (SC) Versus Intravenous (IV) Daratumumab (DARA) Administration in Patients with Relapsed or Refractory Multiple Myeloma: COLUMBA Update

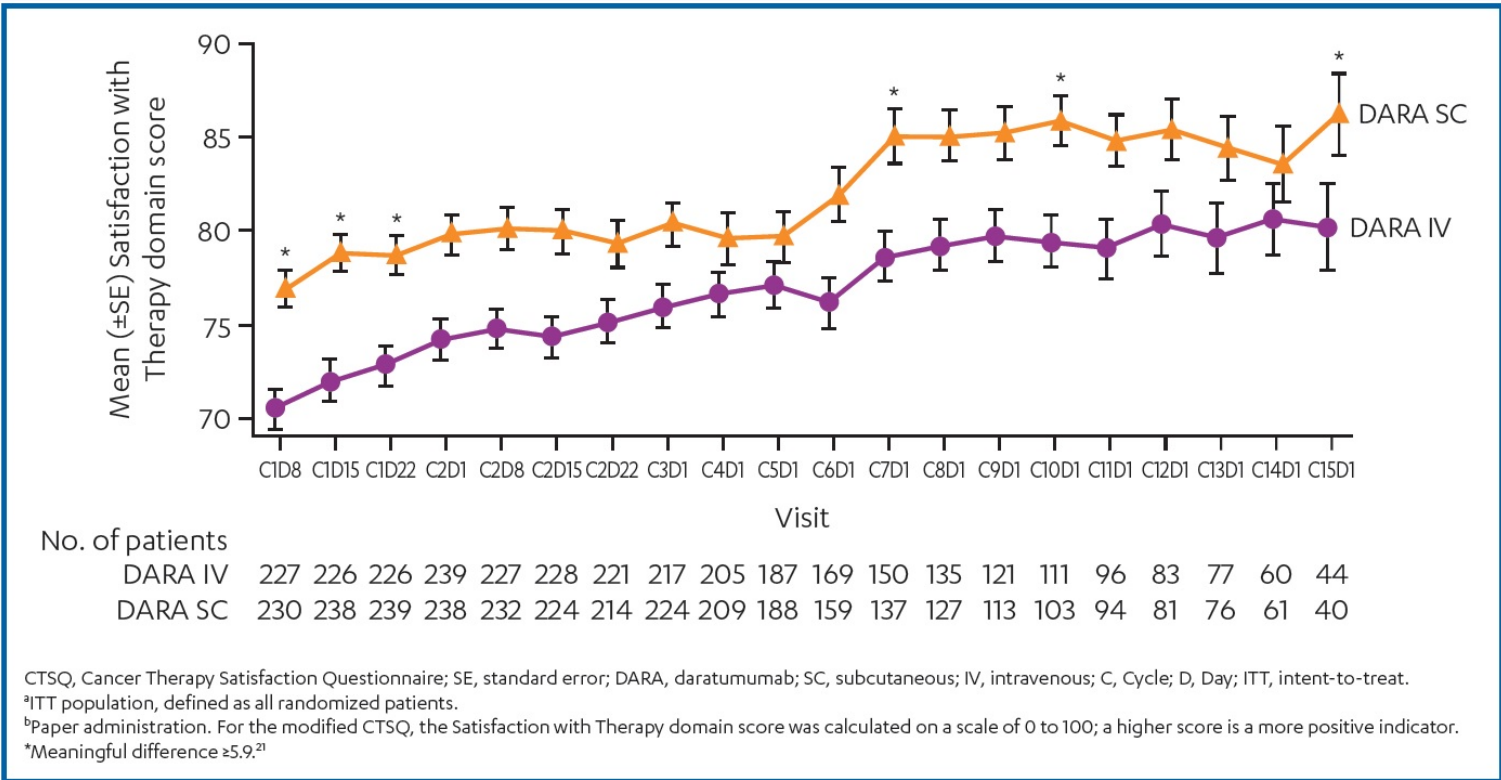


Figure 7. Modified CTSQ.^{a,b}

Poster 1865: Randomized, Open-label, Non-inferiority, Phase 3 Study of Subcutaneous (SC) Versus Intravenous (IV) Daratumumab (DARA) Administration in Patients with Relapsed or Refractory Multiple Myeloma: COLUMBA Update

CONCLUSIONS

- ◆ **With longer follow-up, responses with DARA SC monotherapy deepened and remained similar to DARA IV monotherapy**
 - PFS and OS were comparable between patients treated with DARA SC and DARA IV
- ◆ **DARA SC maintained noninferiority to DARA IV in terms of the co-primary endpoints evaluating ORR and PK (maximum C_{trough})**
- ◆ **DARA SC has a similar safety profile compared to DARA IV, with a statistically significant reduction in IRR rates and a low incidence of injection-site reactions**
- ◆ **DARA SC has reduced treatment burden and is associated with a considerably shorter median administration duration (5 minutes)**
 - DARA SC patients continue to report higher satisfaction with treatment than DARA IV patients
- ◆ **These results demonstrate a favorable benefit/risk profile for DARA SC 1,800 mg flat dose**

Poster 1906: Randomized, Open-label, Non-inferiority, Phase 3 Study of Subcutaneous (SC) Versus Intravenous (IV) Daratumumab (DARA) Administration in Patients (Pts) with Relapsed or Refractory Multiple Myeloma (RRMM): Body Weight Subgroup Analysis of COLUMBA

Maria-Victoria Mateos,^{1,*} Saad Z. Usmani,² Sebastian Grosicki,³ Vladimir Vorobyev,⁴ Ivan Spicka,⁵ Vania Hungria,⁶ Sibirina Korenkova,⁷ Nizar Bahlis,⁸ Max Flogegard,⁹ Joan Blade,¹⁰ Philippe Moreau,¹¹ Martin Kaiser,¹² Shinsuke Iida,¹³ Jacob Laubach,¹⁴ Tara Masterson,¹⁵ Kristen Lantz,¹⁵ Lisa O'Rourke,¹⁵ Xiang Qin,¹⁶ Dolly A. Parasrampur,¹⁵ Christoph Heuck,¹⁵ Ming Qi,¹⁵ Hareth Nahi¹⁷

¹University Hospital of Salamanca/IBSAL, Salamanca, Spain; ²Levine Cancer Institute/Atrium Health, Charlotte, NC, USA; ³Department of Hematology and Cancer Prevention, School of Public Health, Silesian Medical University, Katowice, Poland; ⁴S. P. Botkin City Clinical Hospital, Moscow, Russian Federation; ⁵General Faculty Hospital, Prague, Czech Republic; ⁶Santa Casa Medical School, São Paulo, Brazil; ⁷Kiev Center for Bone Marrow Transplantation, Kiev, Ukraine; ⁸Arnie Charbonneau Cancer Institute, University of Calgary, Calgary, AB, Canada; ⁹Department of Internal Medicine, Falun General Hospital, Falun, Sweden; ¹⁰IDIBAPS, Hospital Clinic de Barcelona, Barcelona, Spain; ¹¹University Hospital of Nantes, Nantes, France; ¹²Division of Molecular Pathology, Institute of Cancer Research, Sutton, UK; ¹³Department of Hematology and Oncology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan; ¹⁴Department of Hematology and Oncology, Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA, USA; ¹⁵Janssen Research & Development, LLC, Spring House, PA, USA; ¹⁶Janssen Research & Development, LLC, Raritan, NJ, USA; ¹⁷Karolinska Institute, Department of Medicine, Division of Hematology, Karolinska University Hospital at Huddinge, Stockholm, Sweden

Poster 1906: Randomized, Open-label, Non-inferiority, Phase 3 Study of Subcutaneous (SC) Versus Intravenous (IV) Daratumumab (DARA) Administration in Patients (Pts) with Relapsed or Refractory Multiple Myeloma (RRMM): Body Weight Subgroup Analysis of COLUMBA

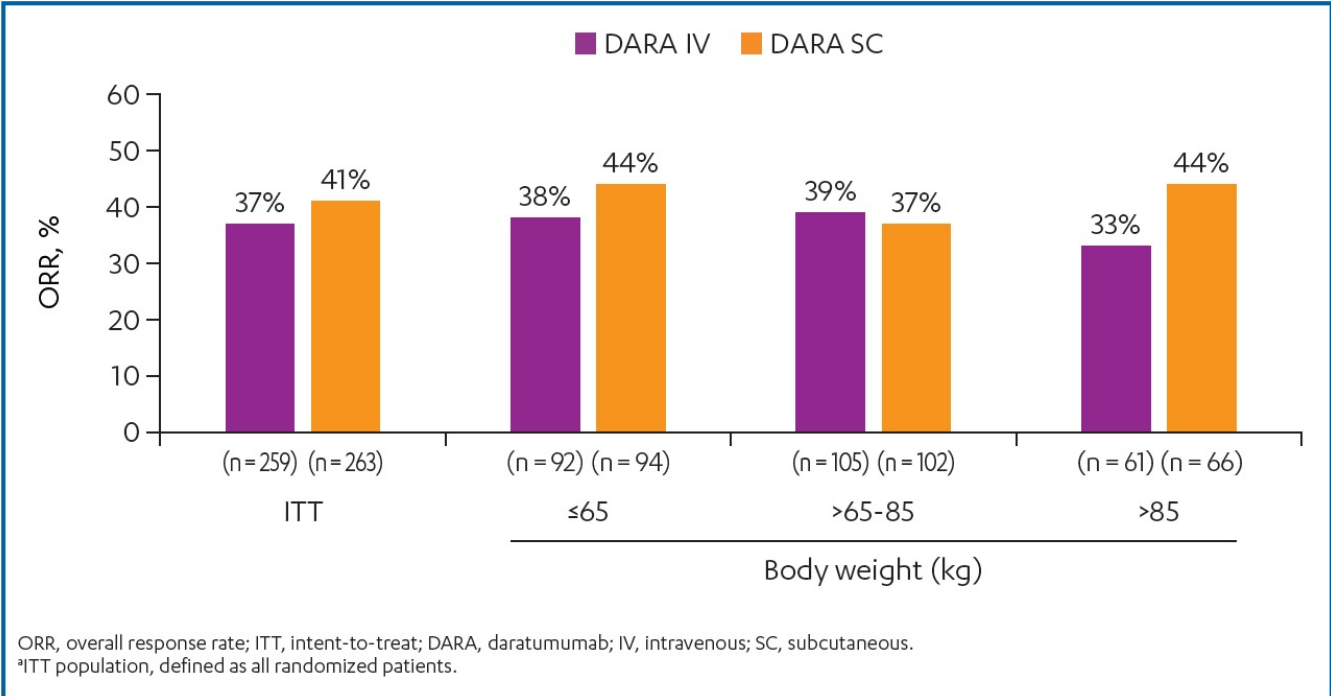


Figure 2. ORRs in the ITT population^a and across body weight subgroups.

ORRs in the DARA SC and DARA IV body weight subgroups were consistent with the ITT population

Poster 1906: Randomized, Open-label, Non-inferiority, Phase 3 Study of Subcutaneous (SC) Versus Intravenous (IV) Daratumumab (DARA) Administration in Patients (Pts) with Relapsed or Refractory Multiple Myeloma (RRMM): Body Weight Subgroup Analysis of COLUMBA

Table 2. Summary of TEAEs Across Body Weight Subgroups

	DARA IV			DARA SC		
	≤65 kg (n = 92)	>65-85 kg (n = 105)	>85 kg (n = 61)	≤65 kg (n = 93)	>65-85 kg (n = 102)	>85 kg (n = 65)
Any-grade TEAEs, n (%)	82 (89)	94 (90)	54 (89)	88 (95)	89 (87)	51 (79)
Infections	41 (45)	43 (41)	33 (54)	45 (48)	44 (43)	30 (46)
Patients receiving growth factor, n (%)	15 (16)	11 (11)	3 (5)	13 (14)	8 (8)	6 (9)
Grade 3/4 TEAEs, n (%)	47 (51)	51 (49)	28 (46)	46 (50)	46 (45)	26 (40)
Most common (≥5%)						
Anemia	14 (15)	15 (14)	7 (12)	13 (14)	14 (14)	7 (11)
Thrombocytopenia	12 (13)	14 (13)	9 (15)	15 (16)	15 (15)	6 (9)
Neutropenia	8 (9)	9 (9)	3 (5)	19 (20)	10 (10)	5 (8)
Lymphopenia	6 (7)	7 (7)	3 (5)	8 (9)	3 (3)	2 (3)
Pneumonia	5 (5)	3 (3)	2 (3)	4 (4)	1 (1)	2 (3)
Hypertension	4 (4)	6 (6)	6 (10)	2 (2)	3 (3)	3 (5)
Leukopenia	1 (1)	0 (0)	1 (2)	6 (7)	1 (1)	3 (5)
Grade 5 TEAEs, n (%)	6 (7)	8 (8)	3 (5)	6 (7)	6 (6)	2 (3)
Serious TEAEs, n (%)	28 (30)	33 (31)	15 (25)	22 (24)	29 (28)	17 (26)
TEAEs leading to treatment discontinuation, n (%)	6 (7)	9 (9)	6 (10)	8 (9)	8 (8)	2 (3)
Any-grade IRRs, n (%)	27 (29)	38 (36)	24 (39)	13 (14)	13 (13)	7 (11)

TEAE, treatment-emergent adverse event; DARA, daratumumab; IV, intravenous; SC, subcutaneous; IRR, infusion-related reaction.

Poster 1906: Randomized, Open-label, Non-inferiority, Phase 3 Study of Subcutaneous (SC) Versus Intravenous (IV) Daratumumab (DARA) Administration in Patients (Pts) with Relapsed or Refractory Multiple Myeloma (RRMM): Body Weight Subgroup Analysis of COLUMBA

CONCLUSIONS

- ◆ In the primary analysis of COLUMBA, DARA SC was noninferior to DARA IV in terms of the efficacy and PK co-primary endpoints¹⁷
 - DARA SC had a similar safety profile to DARA IV and was associated with a significant reduction in IRR rates and a considerably shorter administration duration
 - Please see Poster #1865 for an update on efficacy and safety in the overall COLUMBA population after longer follow-up
- ◆ In this subgroup analysis, ORRs in all body weight subgroups were consistent with the overall study population for the respective treatment groups, and ORRs were similar across body weight groups for DARA SC versus DARA IV
- ◆ DARA SC achieved adequate exposure consistent with DARA IV and was well tolerated across all body weight subgroups
 - The higher concentration of DARA SC in patients ≤ 65 kg did not have a clinically relevant effect on safety
- ◆ Overall, these results suggest that no dose individualization of DARA SC is necessary on the basis of body weight

A microscopic view of a cell, possibly a cancer cell, with a pipette tip positioned above it. The image is in blue and white, with a colorful, rainbow-like pattern on the cell's surface. The background is dark blue.

Daratumumab Data: Phase II GRIFFIN Update

Presented by Dr. Saad Usmani, M.D., FACP,
University of North Carolina at Chapel Hill, Levine Cancer Institute



Depth of Response to Daratumumab (DARA), Lenalidomide, Bortezomib, and Dexamethasone (RVd) Improves Over Time in Patients (pts) With Transplant-eligible Newly Diagnosed Multiple Myeloma (NDMM): GRIFFIN Study Update*

Peter M. Voorhees,¹ Jonathan L. Kaufman,² Jacob Laubach,³ Douglas W. Sborov,⁴ Brandi Reeves,⁵ Cesar Rodriguez,⁶ Ajai Chari,⁷ Rebecca Silbermann,⁸ Luciano J. Costa,⁹ Larry D. Anderson, Jr,¹⁰ Nitya Nathwani,¹¹ Nina Shah,¹² Yvonne A. Efebera,¹³ Caitlin Costello,¹⁴ Andrzej Jakubowiak,¹⁵ Tanya M. Wildes,¹⁶ Robert Z. Orlowski,¹⁷ Kenneth H. Shain,¹⁸ Andrew J. Cowan,¹⁹ Sean Murphy,²⁰ Yana Lutska,²⁰ Huiling Pei,²¹ Jon Ukropec,²² Jessica Vermeulen,²³ Carla de Boer,²³ Daniela Hoehn,²⁰ Thomas S. Lin,²⁰ Paul G. Richardson³

¹Levine Cancer Institute, Atrium Health, Charlotte, NC, USA; ²Winship Cancer Institute, Emory University, Atlanta, GA, USA; ³Dana-Farber Cancer Institute, Boston, MA, USA; ⁴Huntsman Cancer Institute, University of Utah School of Medicine, Salt Lake City, UT, USA; ⁵University of North Carolina – Chapel Hill, Chapel Hill, NC, USA; ⁶Wake Forest University School of Medicine, Winston-Salem, NC, USA; ⁷Tisch Cancer Institute, Mount Sinai School of Medicine, New York, NY, USA; ⁸Knight Cancer Institute, Oregon Health & Science University, Portland, OR, USA; ⁹University of Alabama at Birmingham, Birmingham, AL, USA; ¹⁰Department of Internal Medicine, Division of Hematology/Oncology, UT Southwestern Medical Center, Dallas, TX, USA; ¹¹Judy and Bernard Briskin Center for Multiple Myeloma Research, City of Hope Comprehensive Cancer Center, Duarte, CA, USA; ¹²Department of Medicine, University of California San Francisco, San Francisco, CA, USA; ¹³The Ohio State University Comprehensive Cancer Center; Columbus OH, USA; ¹⁴Moore's Cancer Center, University of California San Diego, La Jolla, CA, USA; ¹⁵University of Chicago Medical Center, Chicago, IL, USA; ¹⁶Division of Oncology, Section Medical Oncology, Washington University School of Medicine, St. Louis, MO, USA; ¹⁷Department of Lymphoma–Myeloma, University of Texas M.D. Anderson Cancer Center, Houston, TX, USA; ¹⁸Department of Malignant Hematology, H. Lee Moffitt Cancer Center, Tampa, FL, USA; ¹⁹Division of Medical Oncology, University of Washington, Seattle, WA, USA; ²⁰Janssen Scientific Affairs, LLC, Horsham, PA, USA; ²¹Janssen Research & Development, LLC, Titusville, NJ, USA; ²²Janssen Global Medical Affairs, Horsham, PA, USA; ²³Janssen Research & Development, LLC, Leiden, Netherlands

*ClinicalTrials.gov Identifier: NCT02195479.

Introduction

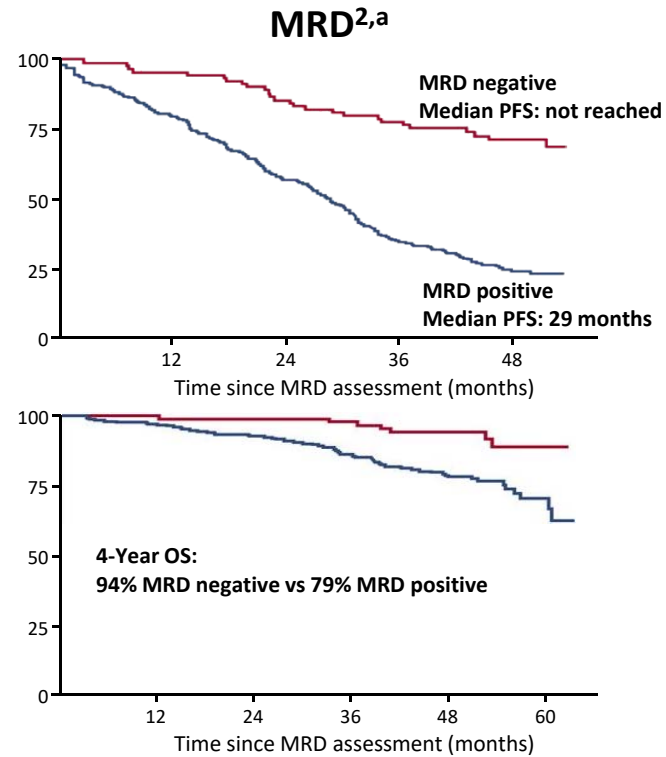
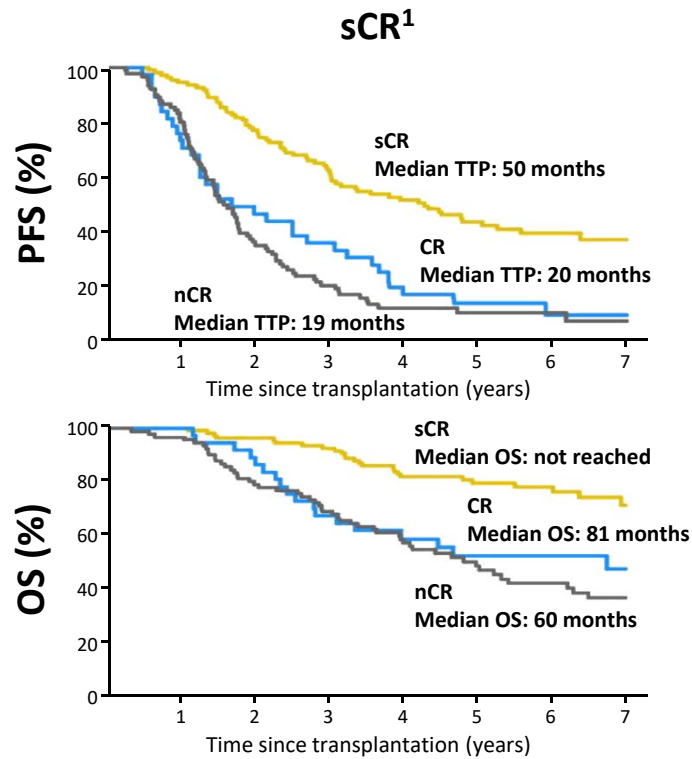
- ASCT consolidation is an important standard of care for transplant-eligible patients with NDMM¹⁻³
- Lenalidomide, bortezomib, and dexamethasone (RVd) induction improved responses, PFS, and OS for NDMM patients in the non-transplant setting^{4,5} and demonstrated notable clinical activity with frontline ASCT^{6,7}
- The addition of DARA to lenalidomide and dexamethasone (Rd) or bortezomib and dexamethasone (Vd)-based therapy in NDMM and RRMM significantly improved depth of response, MRD negativity, and PFS⁸⁻¹³
- In the IFM 2009 study, RVd plus early ASCT versus RVd alone improved PFS (median, 50 vs 36 months)⁶
- The GRIFFIN study evaluated the addition of DARA to RVd plus ASCT in transplant-eligible NDMM
 - Part 1: Safety run-in phase (presented at ASH 2018)¹⁴
 - Toxicity was manageable and all 16 patients underwent successful stem cell collection and transplantation

**We report updated efficacy and safety from GRIFFIN,
after a median follow-up of 22.1 months**

ASCT, autologous stem cell transplant; PFS, progression-free survival; OS, overall survival; MRD, minimal residual disease.

1. Engelhardt M, et al. *Haematologica*. 2014;99(2):232-242. 2. Moreau P, et al. *Ann Oncol*. 2017;28(suppl 4):iv52-iv61. 3. NCCN Clinical Practice Guidelines in Oncology, Multiple Myeloma V2.2020. https://www.nccn.org/professionals/physician_gls/pdf/myeloma.pdf. 4. Richardson PG, et al. *Blood*. 2010;116(5):679-686. 5. Durie BGM, et al. *Lancet*. 2017;389(10068):519-527. 6. Attal M, et al. *N Engl J Med*. 2017;376(14):1311-1320. 7. Rosinol L, et al. *Blood*. 2019;134(16):1337-1345. 8. Dimopoulos MA, et al. *N Engl J Med*. 2016;375(14):1319-1331. 9. Palumbo MD, et al. *N Engl J Med*. 2016;375(8):754-766. 10. Facon T, et al. *N Engl J Med*. 2019;380(22):2104-2115. 11. Dimopoulos MA, et al. *Haematologica*. 2018;103(12):2088-2096. 12. Spencer A, et al. *Haematologica*. 2018;103(12):2079-2087. 13. Mateos MV, et al. *N Engl J Med*. 2018;378(6):518-528. 14. Voorhees P, et al. Presented at the 60th American Society of Hematology (ASH) Annual Meeting & Exposition; December 1-4, 2018; San Diego, CA.

sCR and MRD as Surrogate Endpoints for PFS and OS

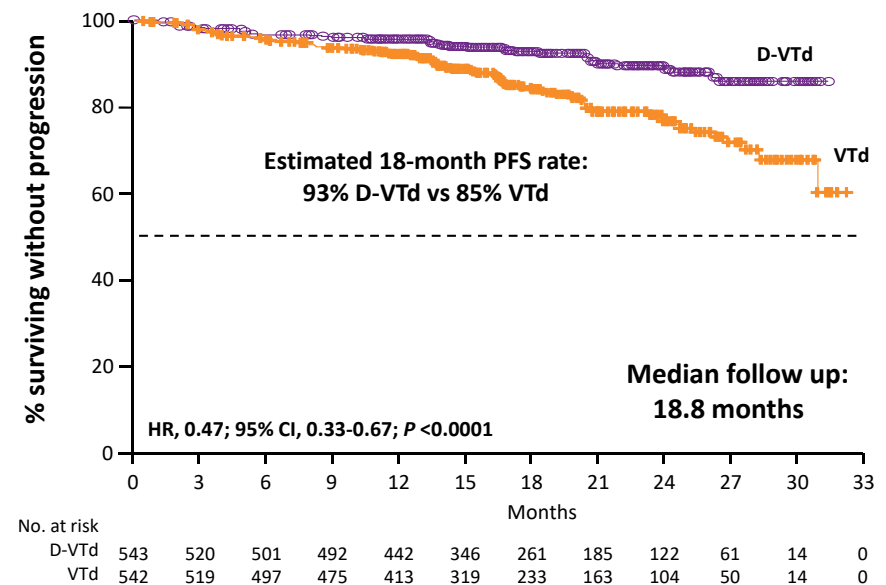
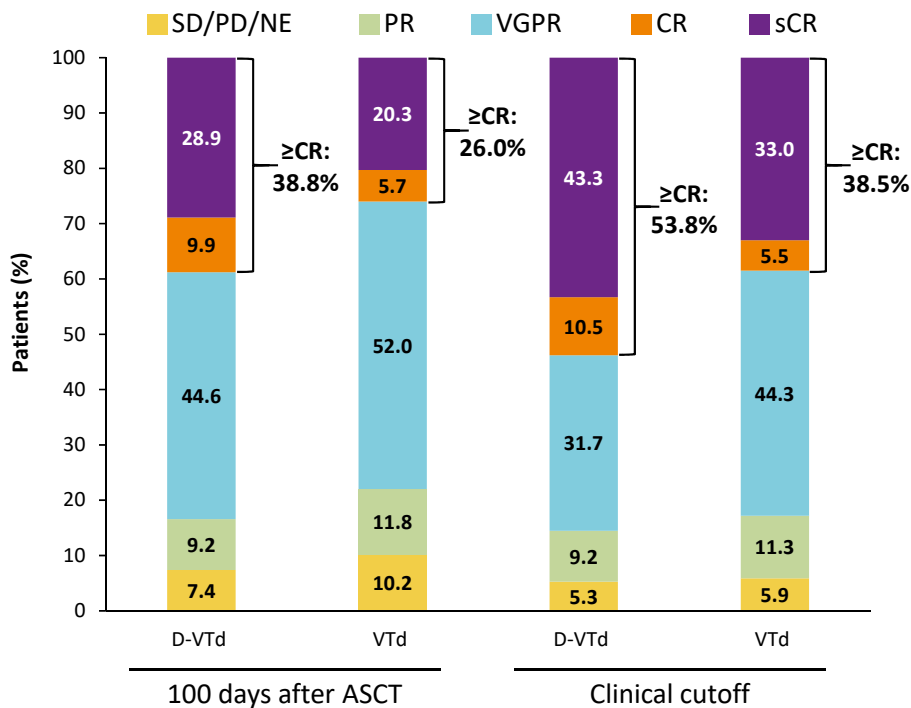


- Achievement of sCR and MRD negativity after ASCT are associated with better PFS and OS

TTP, time to progression; nCR, near complete response.
^aAccording to MRD status at the start of maintenance therapy.

Rationale for Adding Daratumumab to PI + IMiD Induction Therapy in Transplant-Eligible Patients

DARA + VTd (D-VTd) as induction and consolidation in the transplant setting (CASSIOPEIA)¹

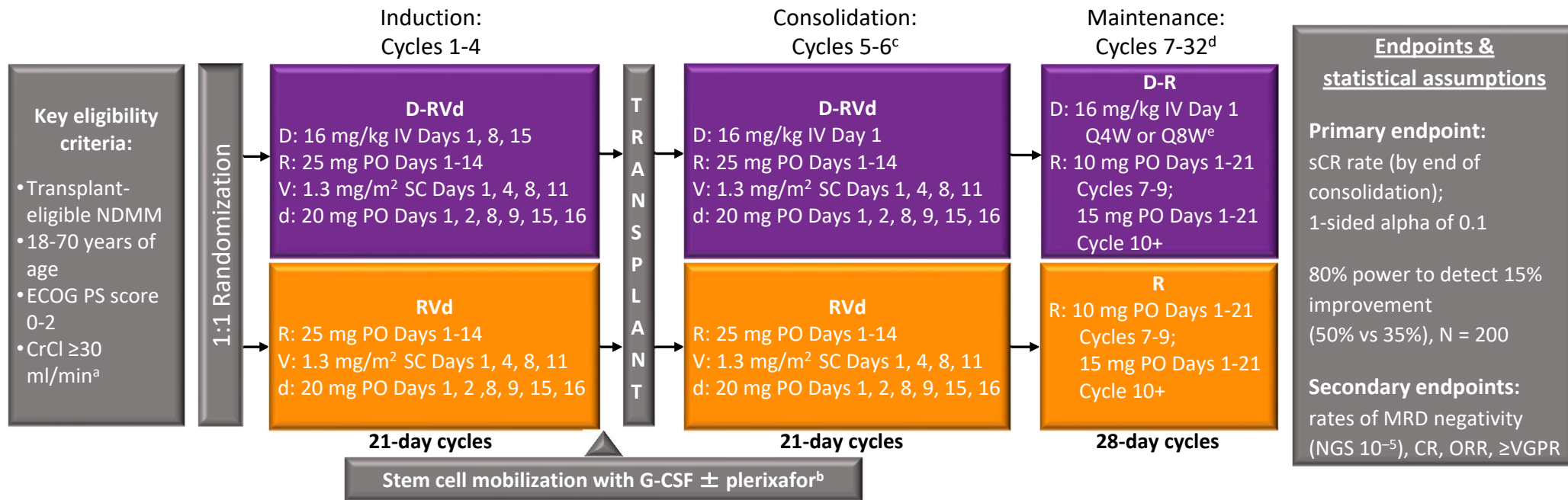


PI, proteasome inhibitor; IMiD, immunomodulatory drug; VTd, bortezomib/thalidomide/dexamethasone; D-VTd, daratumumab plus bortezomib/thalidomide/dexamethasone; HR, hazard ratio; CI, confidence interval; SD/PD/NE, stable disease, progressive disease, or not evaluable; PR, partial response; VGPR, very good partial response; CR, complete response; sCR, stringent complete response.

1. Moreau P, et al. *Lancet*. 2019;394(10192):29-38.

GRIFFIN: Randomized Phase

- Phase 2 study of D-RVd vs RVd in transplant-eligible NDMM, 35 sites in US with enrollment from 12/2016 and 4/2018



D-RVd, daratumumab plus lenalidomide/bortezomib/dexamethasone; RVd, lenalidomide/bortezomib/dexamethasone; NDMM, newly diagnosed multiple myeloma; US, United States; ECOG PS, Eastern Cooperative Oncology Group performance status; CrCl, creatinine clearance; IV, intravenously; PO, orally; SC, subcutaneously; G-CSF, granulocyte colony-stimulating factor; D-R, daratumumab-lenalidomide; Q4W, every 4 weeks; Q8W, every 8 weeks; NGS, next-generation sequencing; ORR, overall response rate; VGPR, very good partial response.

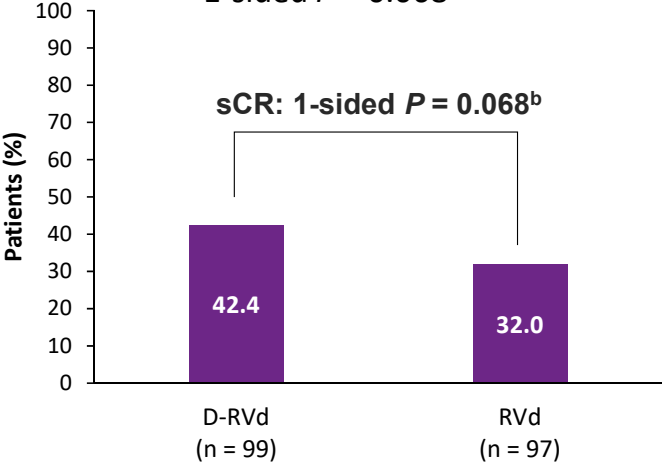
^aLenalidomide dose adjustments were made for patients with CrCl ≤ 50 mL/min. ^bCyclophosphamide-based mobilization was permitted if unsuccessful. ^cConsolidation was initiated 60-100 days post transplant.

^dPatients who complete maintenance cycles 7-32 may continue single-agent lenalidomide thereafter. ^eProtocol Amendment 2 allowed for the option to dose daratumumab Q4W, based on pharmacokinetic results from study SMM2001 (NCT02316106).

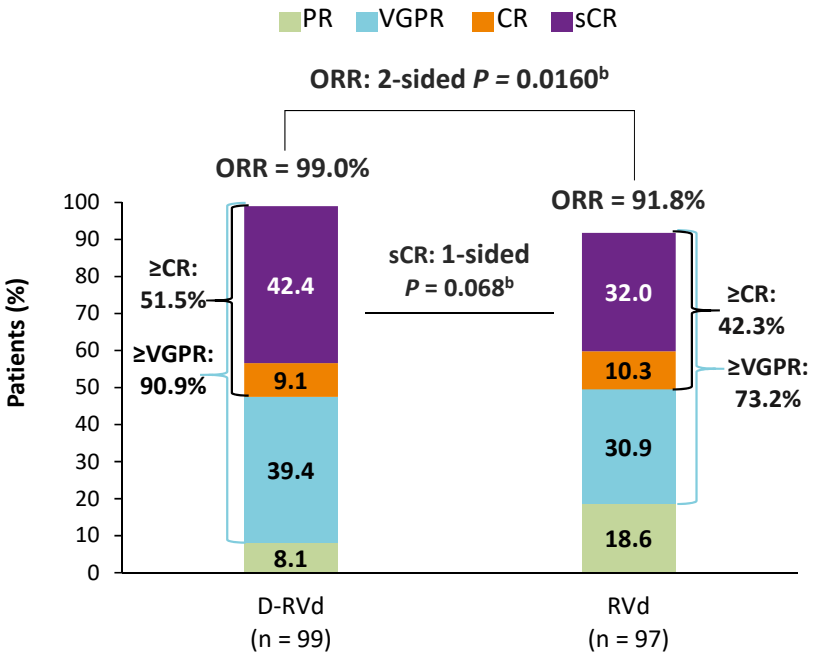
Primary Endpoint: sCR by the End of Consolidation^a

- Primary endpoint met at pre-set 1-sided alpha of 0.1**

- sCR by end of consolidation
 - 42.4% D-RVd vs 32.0% RVd
 - Odds ratio, 1.57; 95% CI, 0.87-2.82; 1-sided $P = 0.068^b$

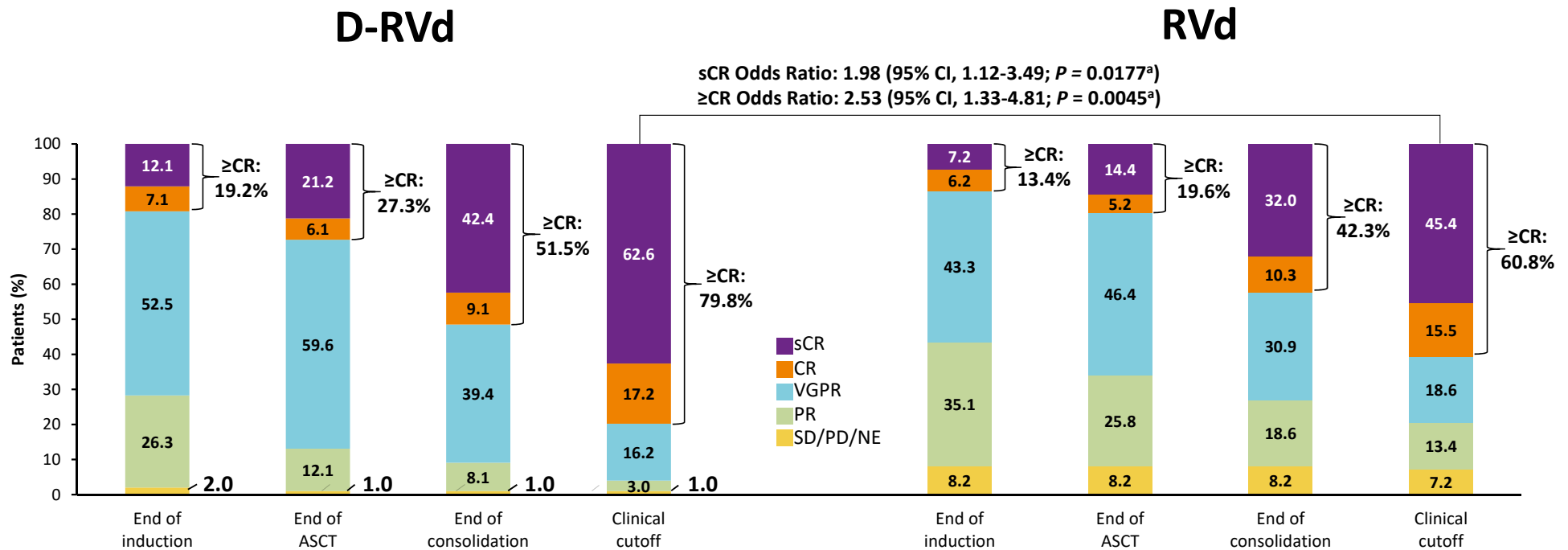


Post-consolidation depth of response^a



^aResults from primary analysis cutoff date (median follow-up, 13.5 months). Included patients in response-evaluable population (all randomized patients with confirmed MM diagnoses, measurable disease at baseline, received ≥1 dose of study treatment, and had ≥1 post-baseline disease assessment). ^bP values calculated using Cochran–Mantel–Haenszel chi-square test. A 1-sided P value is reported for sCR; for all other responses, 2-sided P values not adjusted for multiplicity are reported.

Responses Deepened Over Time

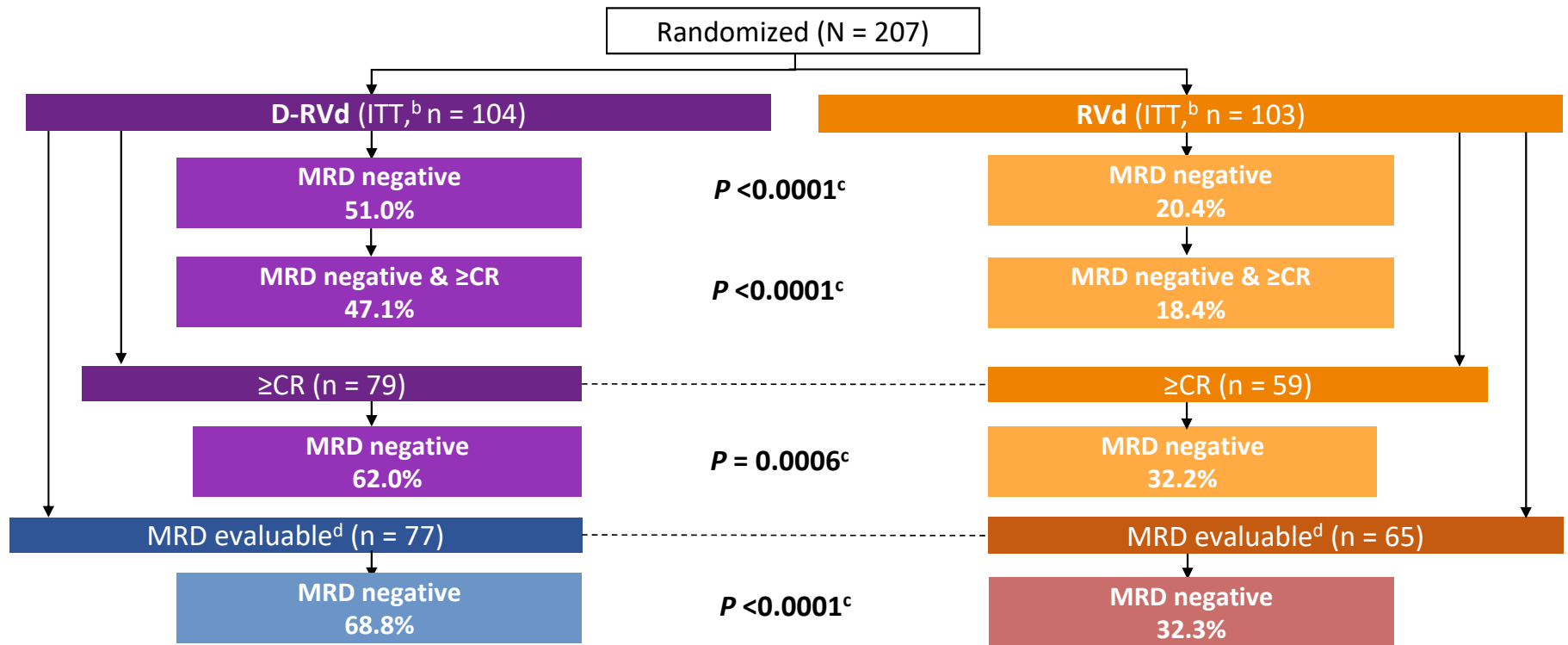


- Median follow up at primary analysis (end of consolidation) was 13.5 months; median follow up at clinical cutoff was 22.1 months

Response rates and depths were greater for D-RVd at all time points

^a P values (2-sided) calculated using Cochran–Mantel–Haenszel chi-square test.

MRD (10^{-5}) Negativity^a at Clinical Cutoff

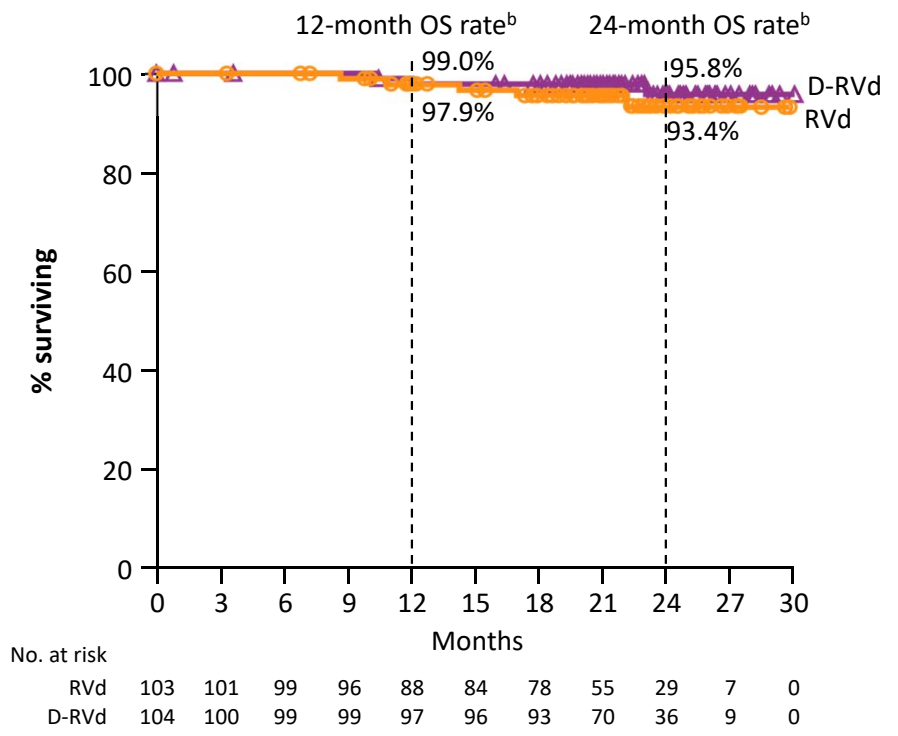
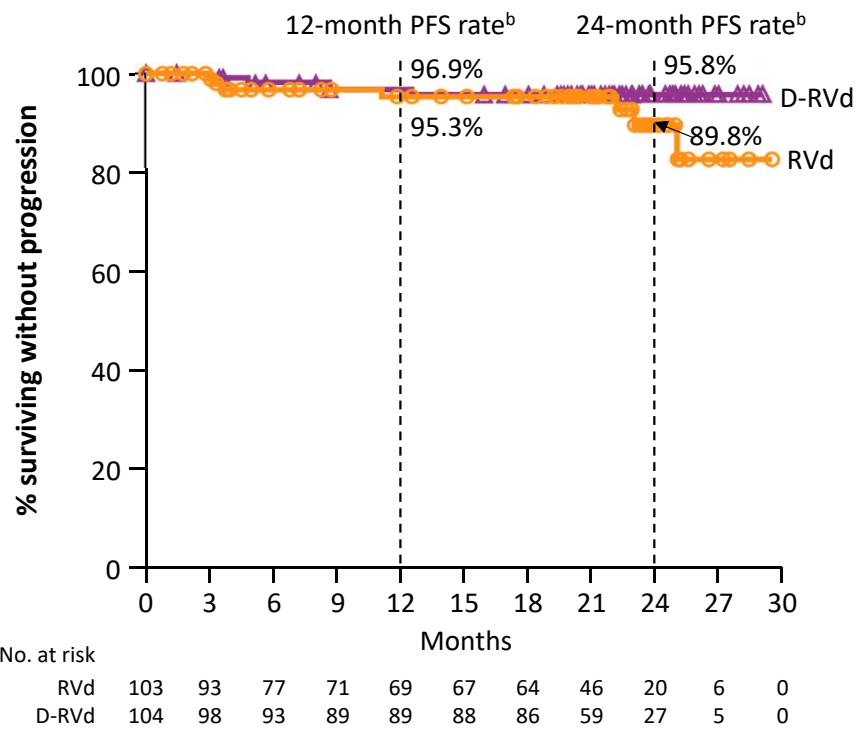


MRD assessments will be updated at 12 and 24 months of maintenance

^aThe threshold of MRD negativity was defined as 1 tumor cell per 10^5 white cells. MRD status is based on assessment of bone marrow aspirates by next-generation sequencing in accordance with International Myeloma Working Group criteria. Median follow-up was 22.1 months. ^bFor the ITT population, patients with a missing or inconclusive assessment were considered MRD positive. ^cP-values were calculated from the Fisher's exact test. ^dThe MRD-evaluable population includes patients who had both baseline (with clone identified/calibrated) and post-baseline MRD (with negative, positive, or indeterminate result) samples taken.

D-RVd Results in Durable Estimated PFS and OS (>95%) at 2 Years^a

- Median follow-up = 22.1 months



Median PFS and OS not reached for D-RVd and RVd

^aITT population. ^bKaplan–Meier estimate.

Most Common TEAEs^a

	D-RVd (n = 99)		RVd (n = 102)	
	Any grade	Grade 3/4	Any grade	Grade 3/4
Hematologic, n (%)				
Neutropenia	57 (58)	41 (41)	36 (35)	22 (22)
Thrombocytopenia	43 (43)	16 (16)	36 (35)	9 (9)
Leukopenia	36 (36)	16 (16)	29 (28)	7 (7)
Anemia	35 (35)	9 (9)	33 (32)	6 (6)
Lymphopenia	30 (30)	23 (23)	28 (28)	22 (22)
Non-hematologic, n (%)				
Fatigue	68 (69)	6 (6)	62 (61)	6 (6)
Upper respiratory tract infection	62 (63)	1 (1)	45 (44)	2 (2)
Peripheral neuropathy ^b	59 (60)	7 (7)	74 (73)	8 (8)
Diarrhea	59 (60)	7 (7)	51 (50)	4 (4)
Constipation	51 (52)	2 (2)	40 (39)	1 (1)
Cough	50 (51)	0	27 (26)	0
Nausea	49 (49)	2 (2)	50 (49)	1 (1)
Pyrexia	45 (45)	2 (2)	28 (27)	3 (3)
Insomnia	42 (42)	2 (2)	31 (30)	1 (1)
Back pain	36 (36)	1 (1)	34 (33)	4 (4)
Peripheral edema	34 (34)	2 (2)	35 (34)	3 (3)
Arthralgia	33 (33)	0	33 (32)	2 (2)
Infusion-related reaction, n (%)	42 (42)	6 (6) ^c	–	–

- Any-grade infection rates were higher for D-RVd vs RVd (91% vs 62%), largely due to grade 1/2 upper respiratory tract infections
- Grade 3/4 infection rates were similar (23% vs 22%)
- The rate of any-grade pneumonia was similar for D-RVd and RVd (13% vs 15%)

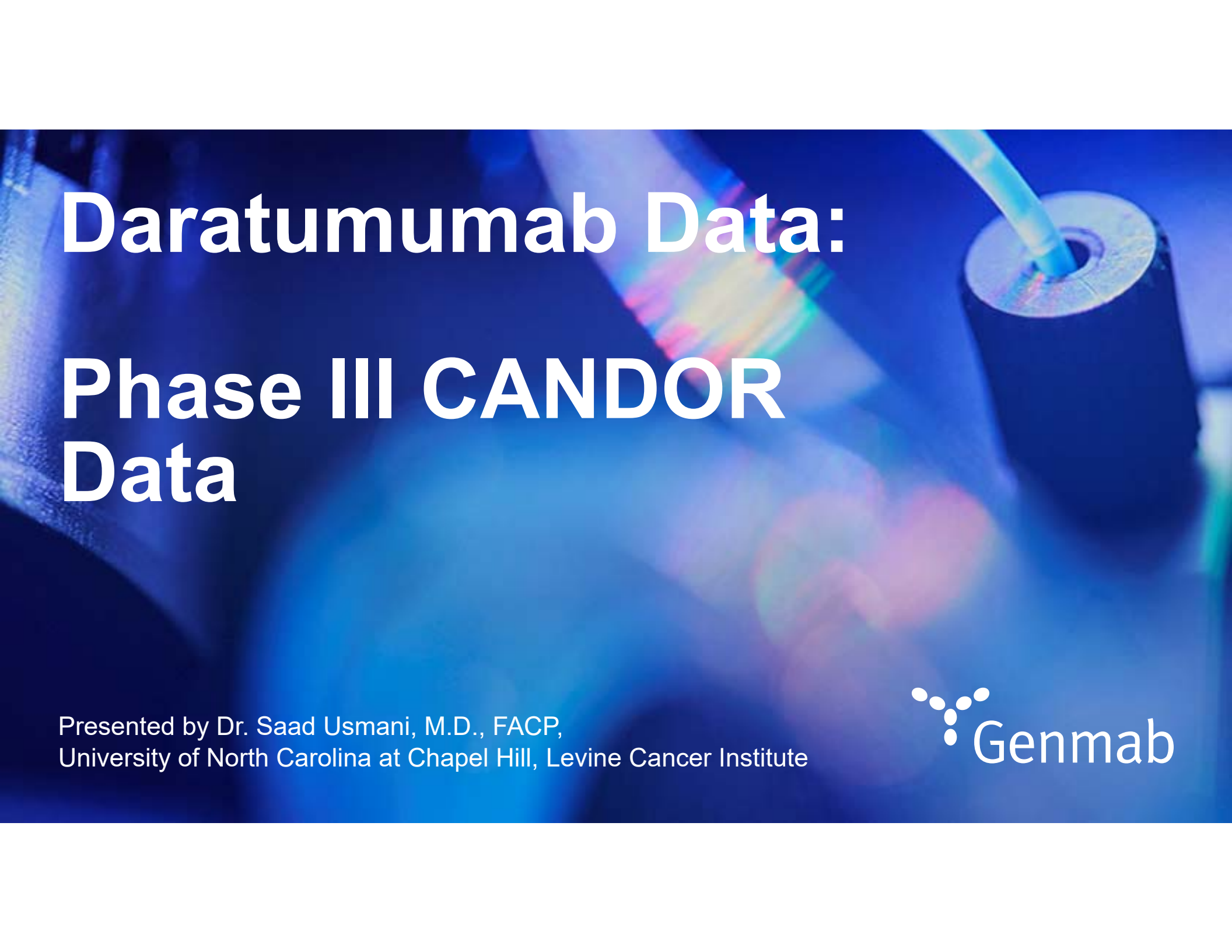
TEAE, treatment-emergent adverse event.

^aAny-grade TEAEs are listed that occurred in ≥30% of patients in either group. The safety analysis population included all randomized patients who received ≥1 dose of study treatment; analysis was according to treatment received. ^bIncludes patients with neuropathy peripheral and peripheral sensory neuropathy. ^cNo grade 4 IRRs were reported.

Conclusions

- D-RVd significantly improved response rates and depth of response compared with RVd
 - The benefit of DARA continues with longer follow up, as D-RVd shows continued improvement of sCR and MRD-negativity rates beyond post-ASCT consolidation
- The overall safety profile of D-RVd is consistent with previous reports of daratumumab plus standard of care
- Stem cell mobilization was feasible and hematopoietic reconstitution was not impacted with D-RVd
- PFS and OS rates at 24 months in the D-RVd group ($\geq 95\%$) are promising
- The ongoing phase 3 PERSEUS study is evaluating subcutaneous DARA plus RVd in transplant-eligible patients

These results support D-RVd as a potential new standard of care for transplant-eligible NDMM



Daratumumab Data: Phase III CANDOR Data

Presented by Dr. Saad Usmani, M.D., FACP,
University of North Carolina at Chapel Hill, Levine Cancer Institute



LBA-6: Carfilzomib, Dexamethasone, and Daratumumab Versus Carfilzomib and Dexamethasone for the Treatment of Patients with Relapsed or Refractory Multiple Myeloma (RRMM): Primary Analysis Results from the Randomized, Open-Label, Phase 3 Study CANDOR

Saad Z. Usmani, MD, MBBS¹, Hang Quach, MD², María-Victoria Mateos³, Ola Landgren, MD, PhD⁴, Xavier Leleu, MD, PhD⁵, David S. Siegel⁶, Katja Weisel^{7*}, Hui Yang^{8*}, Zandra K. Klippel, MD⁸, Anita Zahlten-Kumeli⁸ and Meletios A. Dimopoulos, MD⁹

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⁴Memorial Sloan Kettering Cancer Center, New York, NY; ⁵Hopital Claude Huriez, Lille, France; ⁶John Theurer Cancer Center at Hackensack University Medical Center, Hackensack, NJ; ⁷Department of Oncology, Hematology and Bone Marrow Transplantation with Section of Pneumology, University Medical Center Hamburg-Eppendorf, Hamburg, Germany; ⁸Amgen, Inc., Thousand Oaks, CA; ⁹National and Kapodistrian University of Athens, School of Medicine, Athens, Greece

LBA-6: Carfilzomib, Dexamethasone, and Daratumumab Versus Carfilzomib and Dexamethasone for the Treatment of Patients with Relapsed or Refractory Multiple Myeloma (RRMM): Primary Analysis Results from the Randomized, Open-Label, Phase 3 Study CANDOR

Introduction & Methods

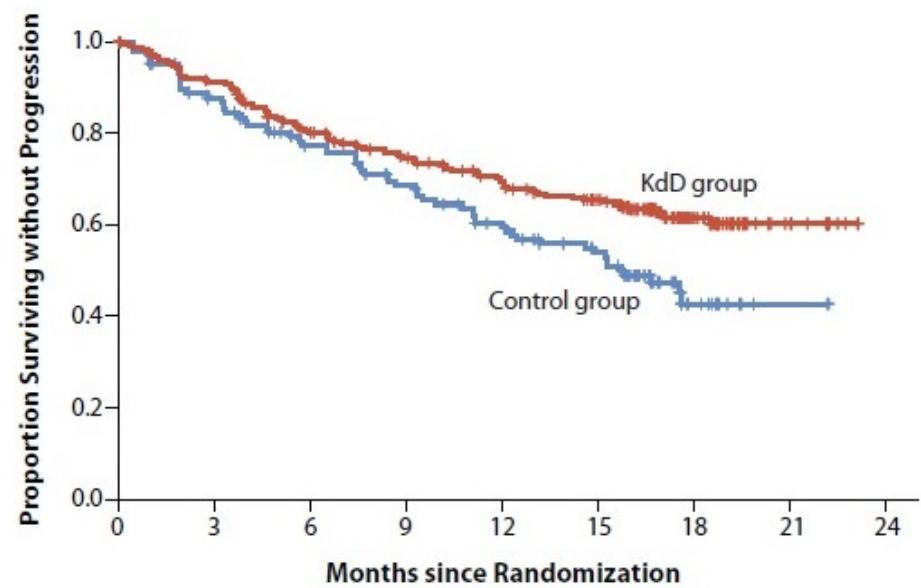
- Use of lenalidomide & bortezomib in NDMM pts, along with continuous or maintenance therapy paradigm have improved survival outcomes
- However, many pts progress while on these agents or discontinue them due to toxicity
- There is a need for novel, efficacious & tolerable regimens that can treat MM pts who are exposed or refractory to lenalidomide or bortezomib
- The combination of D-Kd has been shown to be efficacious and safe in RRMM in the phase 1 study MMY1001 (Chari, Blood 2019)
- RRMM pts with measurable disease who had received 1–3 prior lines of therapy, with partial response or better to ≥ 1 line of therapy were eligible
- Pts were randomized 2:1 to D-Kd or Kd
- Primary endpoint was PFS
- Secondary endpoints: ORR, MRD negative-complete response at 12 months (threshold, 10^{-5} cells), OS, time to response & safety.

LBA-6: Carfilzomib, Dexamethasone, and Daratumumab Versus Carfilzomib and Dexamethasone for the Treatment of Patients with Relapsed or Refractory Multiple Myeloma (RRMM): Primary Analysis Results from the Randomized, Open-Label, Phase 3 Study CANDOR

Patient Characteristics & Dosing

- Total patients
 - 312 D-Kd
 - 154 Kd
 - Baseline characteristics balanced between arms
 - Median age: 64 years
 - Of randomized pts
 - 42.3% received previous lenalidomide-containing regimens
 - 90.3% received bortezomib-containing regimens
 - 33% of pts were lenalidomide-refractory
- All pts received K as 30-min IV infusion on days 1, 2, 8, 9, 15 & 16 of each 28-day cycle (20 mg/m² on days 1 and 2 during cycle 1 and 56 mg/m² thereafter)
 - IV Daratumumab (8 mg/kg) administered on days 1 and 2 of cycle 1 and at 16 mg/kg once weekly for the remaining doses of the first 2 cycles, then every 2 wks for 4 cycles (cycles 3 to 6), and every 4 wks thereafter
 - All pts received 40 mg dex oral or IV weekly (20 mg for pts >75 years)

LBA-6: Carfilzomib, Dexamethasone, and Daratumumab Versus Carfilzomib and Dexamethasone for the Treatment of Patients with Relapsed or Refractory Multiple Myeloma (RRMM): Primary Analysis Results from the Randomized, Open-Label, Phase 3 Study CANDOR



No. at Risk	0	3	6	9	12	15	18	21	24
KdD group	312	279	236	211	189	165	57	14	0
Control group	154	122	100	85	70	55	13	2	0

	D-Kd (n=312)	Kd (n=154)
Disease progression or death (%)	35.3	44.2
Median PFS (mo)	NE	15.8
Hazard ratio for D-Kd vs Kd (95% CI)	0.63 (0.46 -0.85)	
P-value (1-sided)	0.0014	
ORR (%; P=0.0040)	84.3	74.7%
≥CR (%)	28.5	10.4
MRD-neg. CR at 12mo (%; P<0.0001)	12.5	1.3
Median treatment duration (wks)	70.1	40.3
Median OS	Not reached at median follow-up of 17mo (HR, 0.75; 95% CI, 0.49–1.13; P=0.08)	

Usmani et al, ASH 2019 Abstract LBA-6

LBA-6: Carfilzomib, Dexamethasone, and Daratumumab Versus Carfilzomib and Dexamethasone for the Treatment of Patients with Relapsed or Refractory Multiple Myeloma (RRMM): Primary Analysis Results from the Randomized, Open-Label, Phase 3 Study CANDOR

Safety

- Incidence of grade ≥ 3 AEs:
 - D-Kd: 82.1%
 - Kd: 73.9%
- Serious Aes:
 - D-Kd: 56.2%
 - Kd: 45.8%
- Rate of treatment discontinuation due to AEs similar in both arms (KdD, 22.4%; Kd, 24.8%)
- Frequency of grade ≥ 3 cardiac failure:
 - D-Kd: 3.9%
 - Kd: 8.5% (Kd)
 - Rate of cardiac failure event leading to K discontinuation similar in both arms (3.9% and 4.6%)
- 5 deaths were reported as treatment-related:
 - All in D-Kd arm
 - Pneumonia, sepsis, septic shock, acinetobacter infection, and cardio-respiratory arrest [n=1 each]

LBA-6: Carfilzomib, Dexamethasone, and Daratumumab Versus Carfilzomib and Dexamethasone for the Treatment of Patients with Relapsed or Refractory Multiple Myeloma (RRMM): Primary Analysis Results from the Randomized, Open-Label, Phase 3 Study CANDOR

Conclusions

- D-Kd resulted in a significant PFS benefit over Kd: 37% reduction in the risk of progression or death
- Pts treated with D-Kd achieved deeper responses, with a nearly 10-times higher MRD negative-complete response rate vs Kd-treated pts
- PFS benefit of D-Kd maintained across prespecified clinically important subgroups, particularly among lenalidomide-exposed and -refractory pts
- AEs were generally manageable / incidence of AEs leading to treatment discontinuation was similar in both arms.

- **Overall, D-Kd was associated with favorable benefit-risk profile & represents an efficacious new regimen for RRMM, including for lenalidomide-exposed and/or -refractory pts**

A microscopic view of a cell, likely a cancer cell, with a pipette tip positioned above it. The cell is illuminated with blue and purple light, and the pipette tip is shown in a close-up, slightly out of focus. The background is a dark blue gradient.

Daratumumab Data: Phase III ALCYONE Update

Presented by Dr. Meletios A. Dimopoulos, M.D.,
National and Kapodistrian University of Athens, School of Medicine



Daratumumab Plus Bortezomib, Melphalan, and Prednisone Versus Bortezomib, Melphalan, and Prednisone in Patients With Transplant-ineligible Newly Diagnosed Multiple Myeloma: Overall Survival in ALCYONE*

Maria-Victoria Mateos,¹ Michele Cavo,² Joan Blade,³ Meletios Dimopoulos,⁴ Kenshi Suzuki,⁵ Andrzej Jakubowiak,⁶ Stefan Knop,⁷ Chantal Doyen,⁸ Paulo Lucio,⁹ Zsolt Nagy,¹⁰ Ludek Pour,¹¹ Mark Cook,¹² Sebastian Grosicki,¹³ Andre Crepaldi,¹⁴ Anna Marina Liberati,¹⁵ Philip Campbell,¹⁶ Tatiana Shelekhova,¹⁷ Sung-Soo Yoon,¹⁸ Genadi Iosava,¹⁹ Tomoaki Fujisaki,²⁰ Mamta Garg,²¹ Maria Krevvata,²² Jianping Wang,²³ Anupa Kudva,²³ Jon Ukropec,²⁴ Susan Wroblewski,²² Rachel Kobos,²³ Jesus San-Miguel²⁵

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Background

- Standard of care for transplant-ineligible NDMM patients includes combination therapies such as Rd, VMP, and VRd¹⁻³
- In the primary analysis of the phase 3 ALCYONE study, after median 16.5 months follow-up, the addition of daratumumab to VMP (D-VMP) significantly reduced the risk of progression or death by 50% in transplant-ineligible NDMM patients (HR, 0.50; 95% CI, 0.38-0.65)⁴
- After an additional year of follow-up, D-VMP continued to demonstrate efficacy versus VMP5
 - D-VMP continued to demonstrate a significant benefit in PFS, with a 57% reduction in the risk of progression or death at median 27.8 months follow-up (HR, 0.43; 95% CI, 0.35-0.54)
 - Based on the significant benefit in PFS2 with D-VMP versus VMP, longer survival outcomes were projected for D-VMP, although OS was not assessed

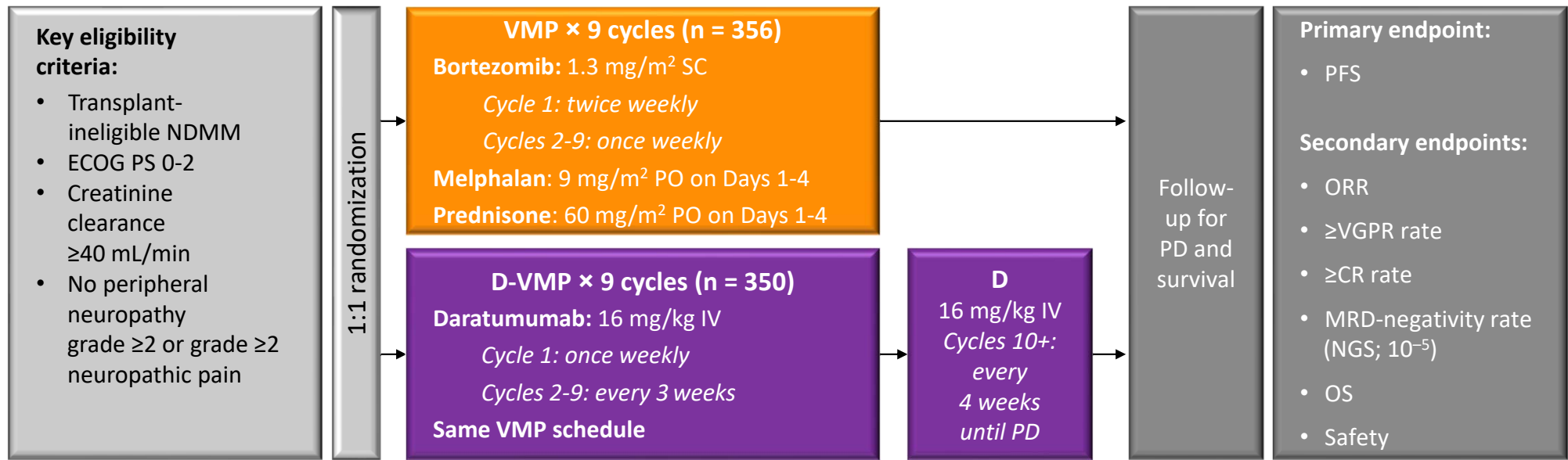
**Here we present updated efficacy and safety from ALCYONE,
after >3 years of follow-up**

HR, hazard ratio; CI, confidence interval; PFS, progression-free survival; PFS2, PFS on next subsequent line of therapy; OS, overall survival.

1. Moreau P, et al. *Ann Oncol*. 2017;28:iv52-iv61. 2. Moreau P, et al. *Ann Oncol*. 2013;24 Suppl 6:vi133-vi7. 3. NCCN Clinical Practice Guidelines in Oncology. Multiple Myeloma V2.2020. (https://www.nccn.org/professionals/physician_gls/pdf/myeloma.pdf). 4. Mateos MV, et al. *N Engl J Med*. 2018;378(6):518-528. 5. Dimopoulos MA, et al. *Blood*. 2018;132:156.

ALCYONE Study Design

- Phase 3 study of daratumumab plus VMP versus VMP alone in transplant-ineligible NDMM; N = 706



Stratification factors

- ISS disease stage (I vs II vs III)
- Region (EU vs other)
- Age (<75 vs ≥75 y)

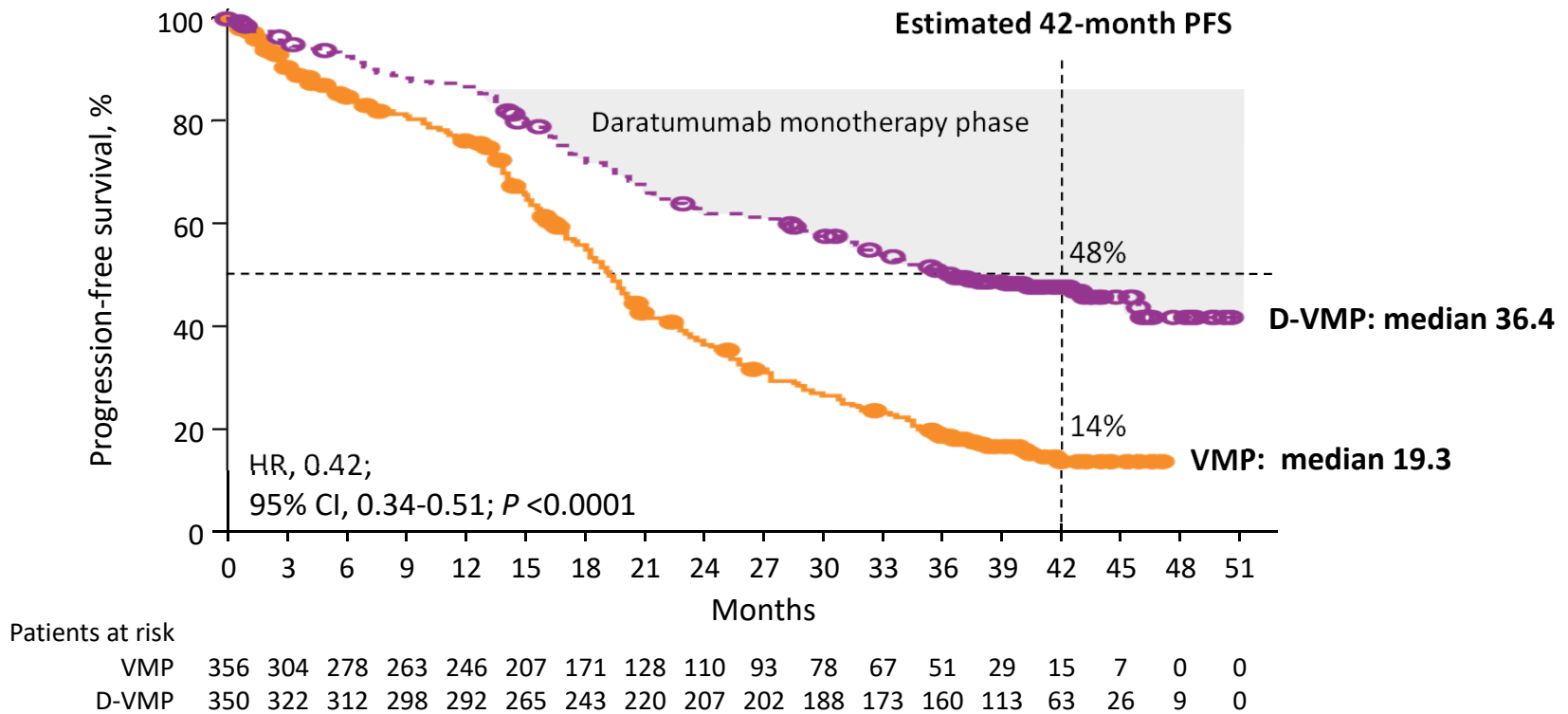
- Cycles 1-9: 6-week cycles
- Cycles 10+: 4-week cycles

Statistical analyses

- Prespecified interim analysis for OS (209 events; 63% of planned events)

PFS^a

- Median (range) follow-up: 40.1 (0-52.1) months

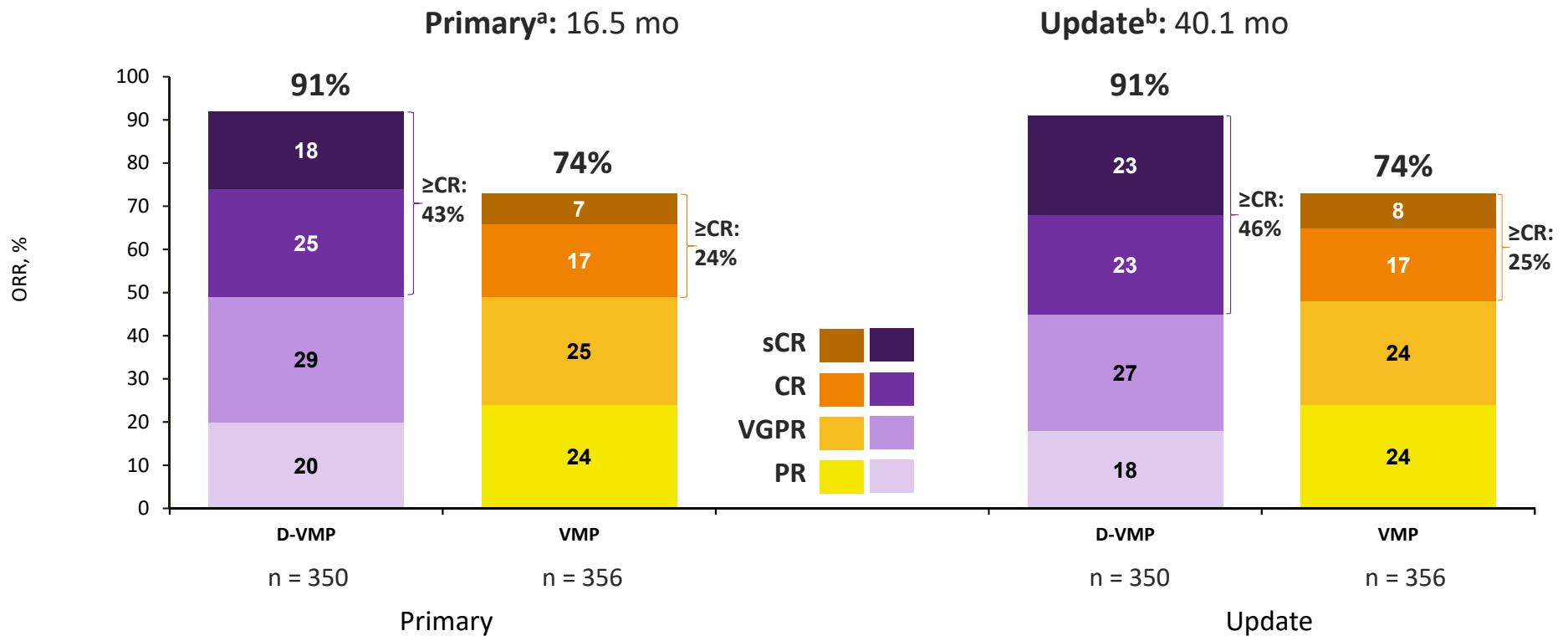


D-VMP continued to demonstrate a significant PFS benefit with extended follow up

^aKaplan-Meier estimate.

ORR

Median follow-up



Significantly higher ORR, ≥VGPR rate, ≥CR rate with D-VMP

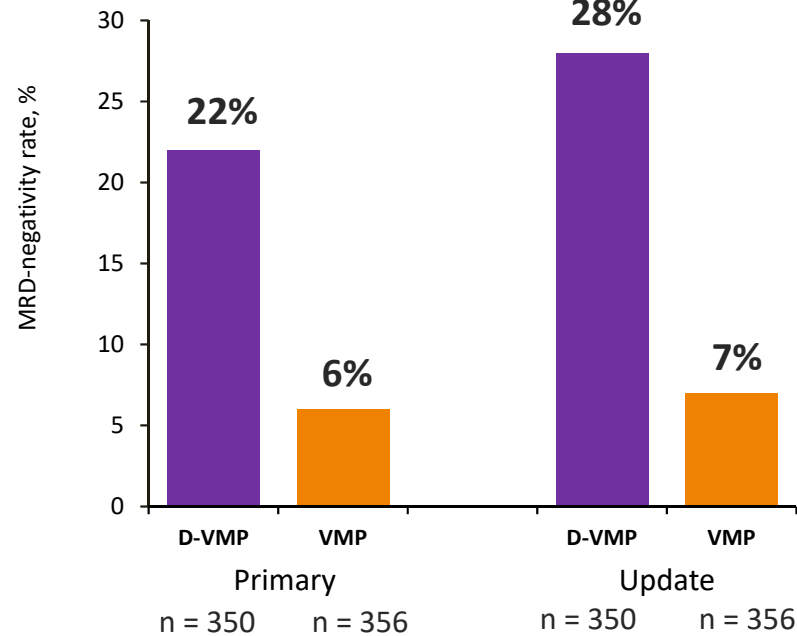
ORR, overall response rate; sCR, stringent complete response; VGPR, very good partial response; PR, partial response.
^aResponse-evaluable population. ^bITT population.

MRD-negativity Rates and PFS by MRD Status (10^{-5})

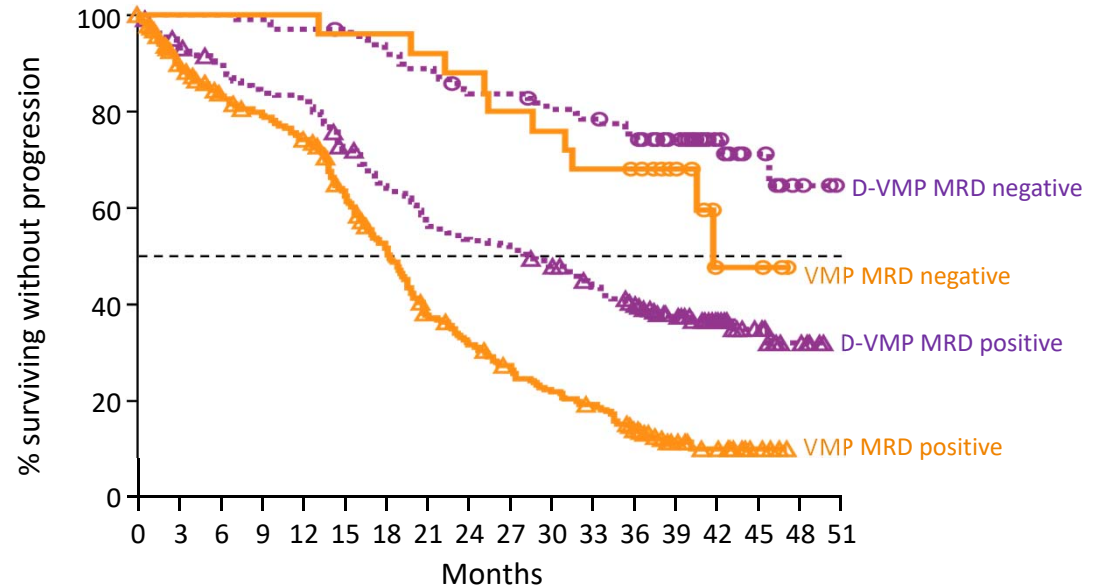
MRD

Median follow-up

Primary^a: 16.5 mo Update^b: 40.1 mo



PFS by MRD Status^b



Patients at risk

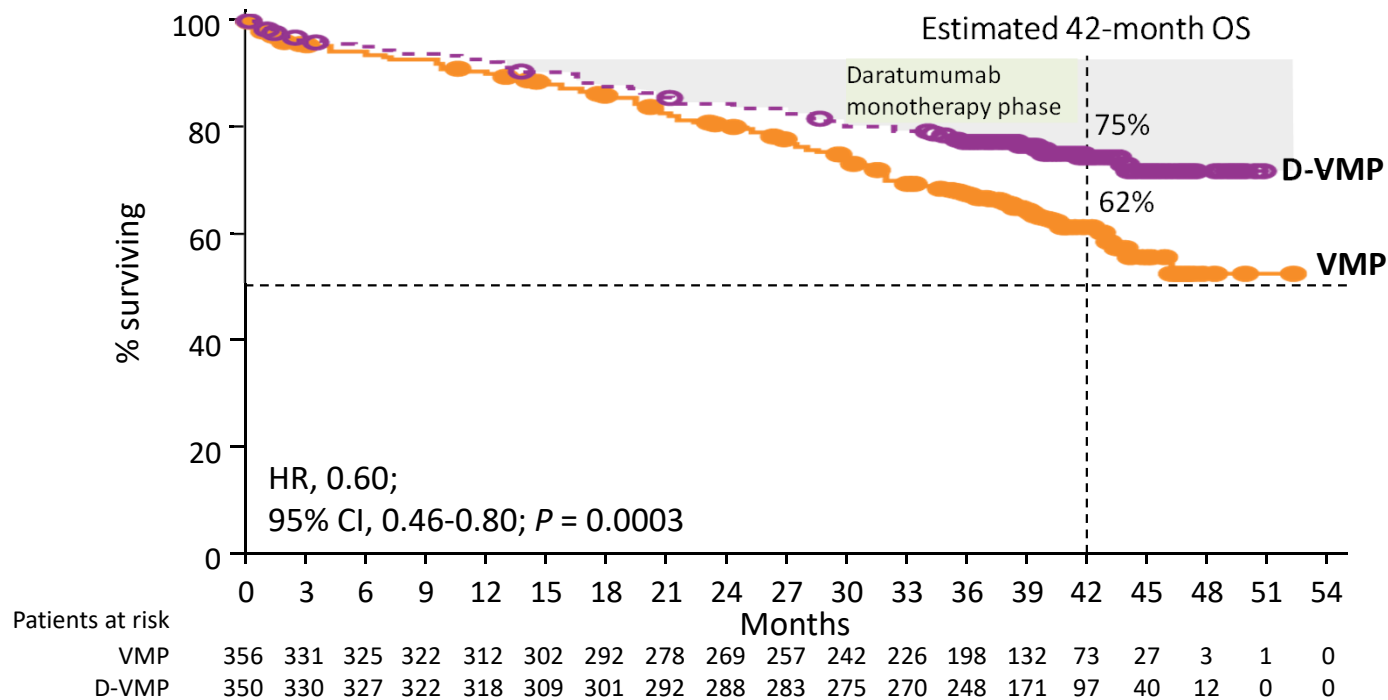
Time (Months)	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51
VMP MRD negative	25	25	25	25	25	24	24	23	22	20	19	17	16	11	3	3	0	0
D-VMP MRD negative	99	99	99	98	96	95	92	87	81	81	77	75	71	51	27	12	4	0
VMP MRD positive	331	279	253	238	221	183	147	105	88	73	59	50	35	18	12	4	0	0
D-VMP MRD positive	251	223	213	200	196	170	151	133	126	121	111	98	89	62	36	14	5	0

- Four-fold higher rates of MRD negativity with D-VMP
- Improved PFS in patients with MRD negativity

^aResponse-evaluable population. ^bTT population.

OS^a

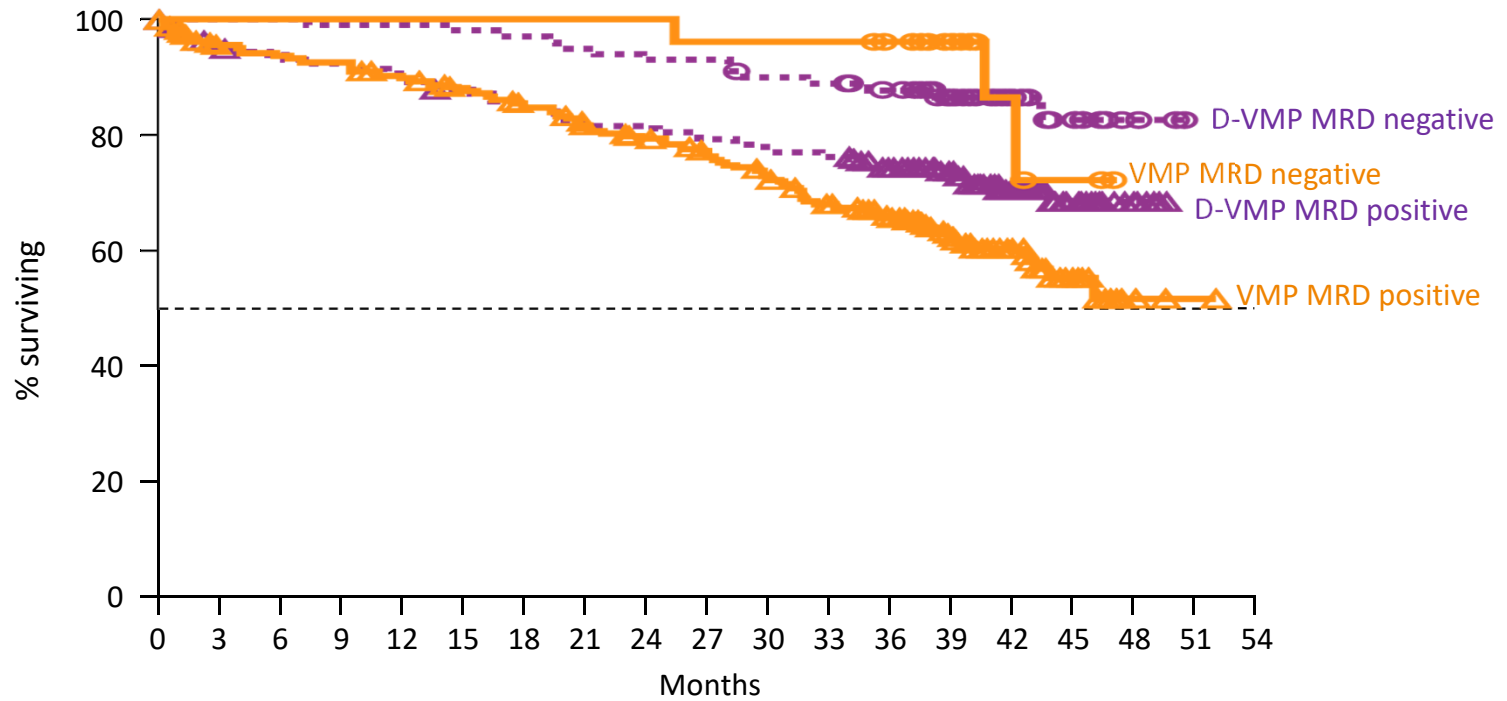
- Median (range) follow-up: 40.1 (0-52.1) months
 - Pre-specified analysis triggered after 209 deaths were observed



40% reduction in the risk of death in patients receiving D-VMP

^aKaplan-Meier estimate.

OS by MRD Status (10^{-5})



Patients at risk		0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
VMP MRD negative	25	25	25	25	25	25	25	25	25	24	24	24	22	16	6	4	0	0	0	0
D-VMP MRD negative	99	99	99	98	98	97	96	94	92	92	88	87	82	60	33	15	4	0	0	0
VMP MRD positive	331	306	300	297	287	277	267	253	244	233	218	202	176	116	67	23	3	1	0	0
D-VMP MRD positive	251	231	228	224	220	212	205	198	196	191	187	183	166	111	64	25	8	0	0	0

Conclusions

- D-VMP continued to demonstrate a significant PFS benefit versus VMP alone
- Responses with D-VMP continued to deepen over time from the primary analysis,¹ with improvements in rates of \geq CR and MRD negativity
- Patients with sustained MRD negativity had improved outcomes
 - Significantly more patients with D-VMP remained MRD negative for \geq 12 months
- D-VMP significantly prolonged OS in patients with transplant-ineligible NDMM
 - 40% reduction in the risk of death versus VMP alone after median follow-up of 40.1 months
 - Based on PFS2 results, longer survival outcomes are projected with other daratumumab-based regimens in the frontline setting

This first report of an OS benefit with daratumumab continues to support the use of daratumumab-based regimens for treatment of patients with MM

Daratumumab Data:

Phase III MAIA Update

Presented by Dr. Meletios A. Dimopoulos, M.D.,
National and Kapodistrian University of Athens, School of Medicine

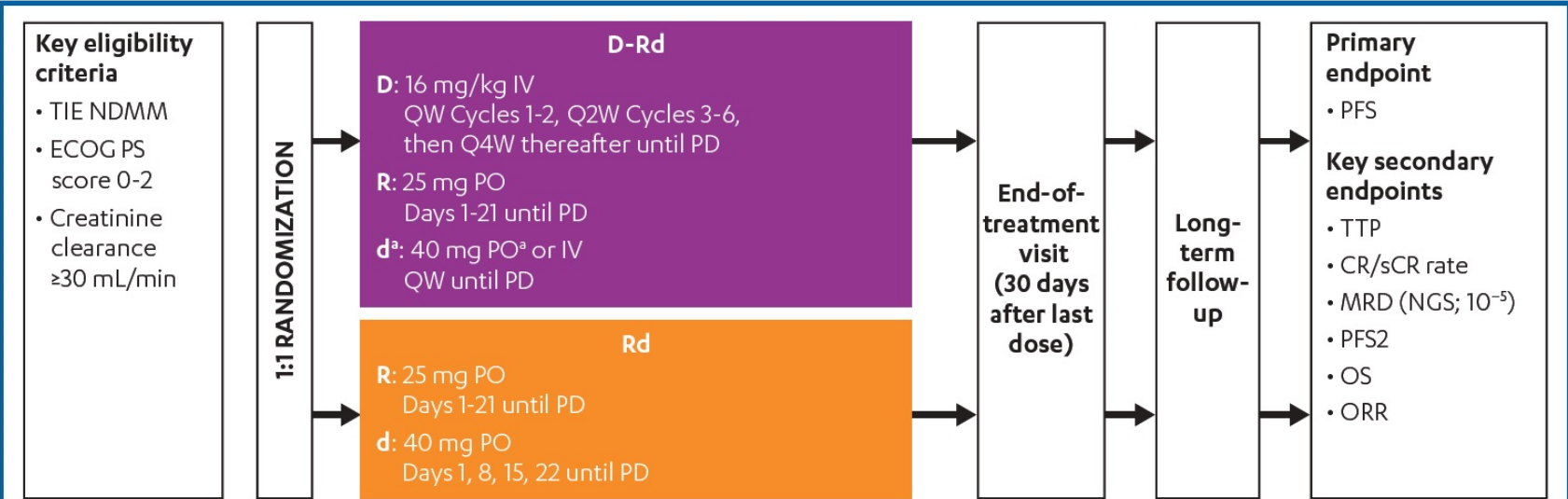


Poster 1875: Daratumumab Plus Lenalidomide and Dexamethasone (D-Rd) Versus Lenalidomide and Dexamethasone (Rd) in Patient with Newly Diagnosed Multiple Myeloma (NDMM) Ineligible for Transplant: Updated Analysis of MAIA

Nizar Bahlis,^{1,*} Thierry Facon,² Saad Z. Usmani,³ Shaji K. Kumar,⁴ Torben Plesner,⁵ Robert Z. Orlowski,⁶ Cyrille Touzeau,⁷ Supratik Basu,⁸ Hareth Nahi,⁹ Cyrille Hulin,¹⁰ Hang Quach,¹¹ Hartmut Goldschmidt,¹² Michael O'Dwyer,¹³ Christopher P. Venner,¹⁴ Katja C. Weisel,¹⁵ Maria Krevvata,¹⁶ Huiling Pei,¹⁷ Jianping Wang,¹⁸ Rian Van Rampelbergh,¹⁹ Jon Ukropec,²⁰ Clarissa M. Uhlar,¹⁶ Rachel Kobos,¹⁸ Aurore Perrot²¹

1University of Calgary, Arnie Charbonneau Cancer Institute, Calgary, AB, Canada; 2Service des Maladies du Sang, Hôpital Claude Huriez, Lille, France; 3Levine Cancer Institute/Atrium Health, Charlotte, NC, USA; 4Department of Hematology, Mayo Clinic Rochester, Rochester, MN, USA; 5Vejle Hospital and University of Southern Denmark, Vejle, Denmark; 6Department of Lymphoma and Myeloma, University of Texas MD Anderson Cancer Center, Houston, TX, USA; 7Hematology, University Hospital Hôtel-Dieu, Nantes, France; 8University of Wolverhampton, Royal Wolverhampton Hospitals NHS Trust, Wolverhampton, UK; 9Karolinska Institute, Department of Medicine, Division of Hematology, Karolinska University Hospital at Huddinge, Stockholm, Sweden; 10Department of Hematology, Hôpital Haut Lévéque, University Hospital, Pessac, France; 11St. Vincent's Hospital, University of Melbourne, Melbourne, Australia; 12University Clinic Heidelberg, Internal Medicine V and National Center for Tumor Diseases (NCT), Heidelberg, Germany; 13Department of Medicine/Haematology, NUI, Galway, Republic of Ireland; 14Division of Medical Oncology, University of Alberta, Edmonton, AB, Canada; 15University Medical Center of Hamburg-Eppendorf, Hamburg, Germany and University of Tuebingen, Tuebingen, Germany; 16Janssen Research & Development, LLC, Spring House, PA, USA; 17Janssen Research & Development, LLC, Titusville, NJ, USA; 18Janssen Research & Development, LLC, Raritan, NJ, USA; 19Janssen Research & Development, Beerse, Belgium; 20Janssen Global Medical Affairs, Horsham, PA, USA; 21Hematology Department, University Hospital, Vandoeuvre Les Nancy, France

Poster 1875: Daratumumab Plus Lenalidomide and Dexamethasone (D-Rd) Versus Lenalidomide and Dexamethasone (Rd) in Patient with Newly Diagnosed Multiple Myeloma (NDMM) Ineligible for Transplant: Updated Analysis of MAIA



TIE, transplant-ineligible; NDMM, newly diagnosed multiple myeloma; ECOG PS, Eastern Cooperative Oncology Group performance status; Rd, lenalidomide/dexamethasone; PO, oral; PD, progressive disease; D-Rd, daratumumab/lenalidomide/dexamethasone; IV, intravenous; QW, once weekly; Q2W, every 2 weeks; Q4W, every 4 weeks; PFS, progression-free survival; TTP, time to progression; CR, complete response; sCR, stringent complete response; MRD, minimal residual disease; NGS, next-generation sequencing; PFS2, progression-free survival on next line of therapy; OS, overall survival; ORR, overall response rate; DARA, daratumumab.
^aOn days when DARA is administered, dexamethasone will be administered to patients in the D-Rd arm and will serve as the treatment dose of steroid for that day, as well as the required pre-infusion medication.

Figure 1. MAIA study design.

Poster 1875: Daratumumab Plus Lenalidomide and Dexamethasone (D-Rd) Versus Lenalidomide and Dexamethasone (Rd) in Patient with Newly Diagnosed Multiple Myeloma (NDMM) Ineligible for Transplant: Updated Analysis of MAIA

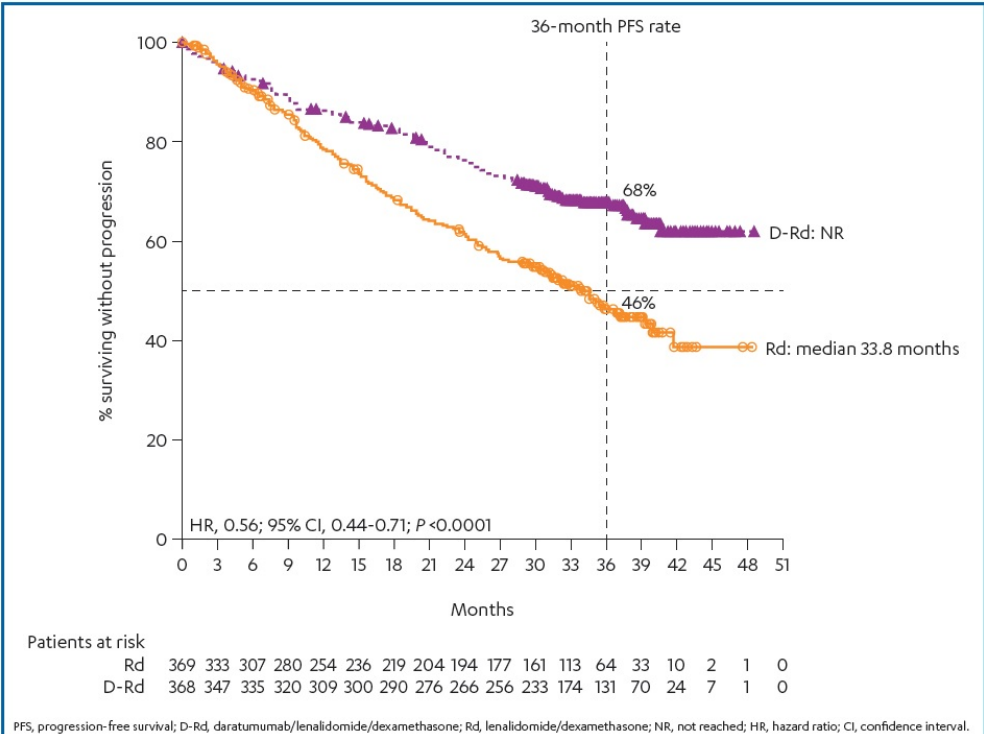


Figure 2. Updated PFS with D-Rd and Rd in MAIA.

- After a median follow-up of 36.4 months, median PFS was NR with D-Rd versus 33.8 months with Rd (HR, 0.56; 95% CI, 0.44-0.71; P < 0.0001)
 - The estimated 36-month rate was 68% with D-Rd versus 46% with Rd

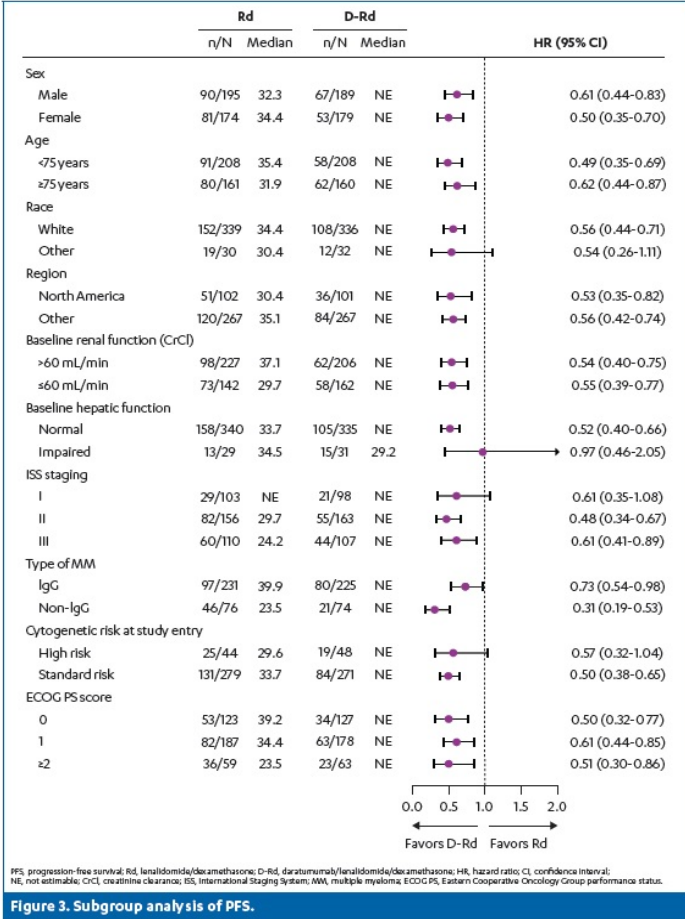


Figure 3. Subgroup analysis of PFS.

Poster 1875: Daratumumab Plus Lenalidomide and Dexamethasone (D-Rd) Versus Lenalidomide and Dexamethasone (Rd) in Patient with Newly Diagnosed Multiple Myeloma (NDMM) Ineligible for Transplant: Updated Analysis of MAIA

CONCLUSIONS

- ◆ **After a median follow-up of 36.4 months, the addition of DARA to Rd continues to demonstrate a significant PFS benefit and improved rates of deeper and more durable responses, including a tripling of the MRD-negativity rate, versus Rd alone in patients with TIE NDMM**
 - The estimated 36-month PFS rate was substantially higher for D-Rd than Rd
 - Importantly, D-Rd showed a PFS benefit and improvement in MRD-negativity rate in patients with high cytogenetic risk
- ◆ **The longer follow-up also demonstrated a significant benefit in PFS2 favoring D-Rd versus Rd alone**
 - PFS2 may be considered a surrogate for overall survival; longer overall survival is anticipated in patients receiving D-Rd versus Rd
- ◆ **No new safety concerns were observed**
- ◆ **These results continue to support the use of D-Rd in the first line of treatment for TIE patients with NDMM**

A microscopic view of a cell, likely a cancer cell, with a pipette tip positioned above it. The cell is illuminated with blue and purple light, and the pipette tip is shown in a close-up, slightly out of focus. The background is a dark blue gradient.

Daratumumab Data: Phase III POLLUX & CASTOR Update

Presented by Dr. Meletios A. Dimopoulos, M.D.,
National and Kapodistrian University of Athens, School of Medicine

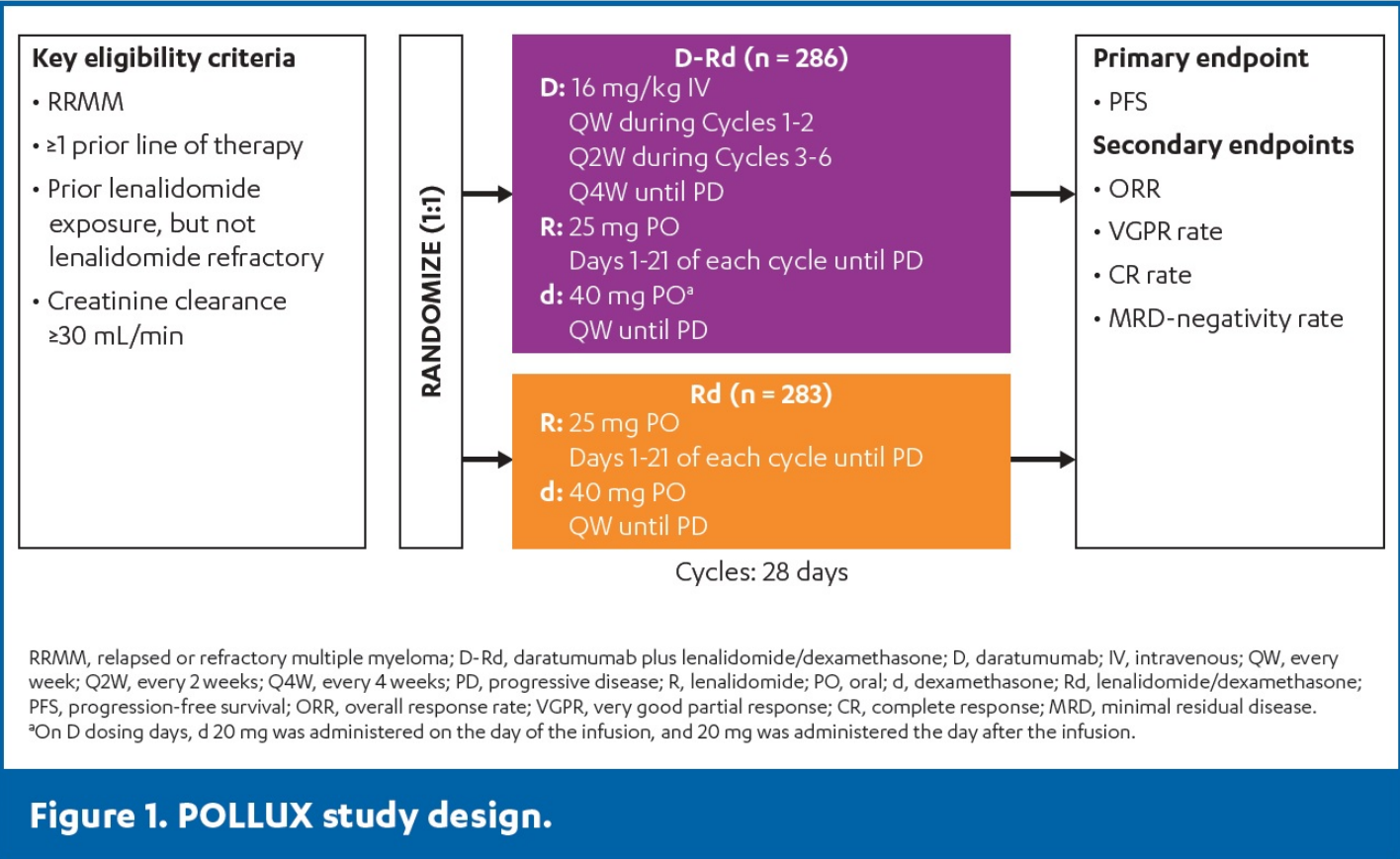


Poster 1866: Four-Year Follow-up of the Phase 3 POLLUX Study of Daratumumab Plus Lenalidomide and Dexamethasone (D-Rd) Versus Lenalidomide and Dexamethasone (Rd) Alone in Relapsed or Refractory Multiple Myeloma (RRMM)

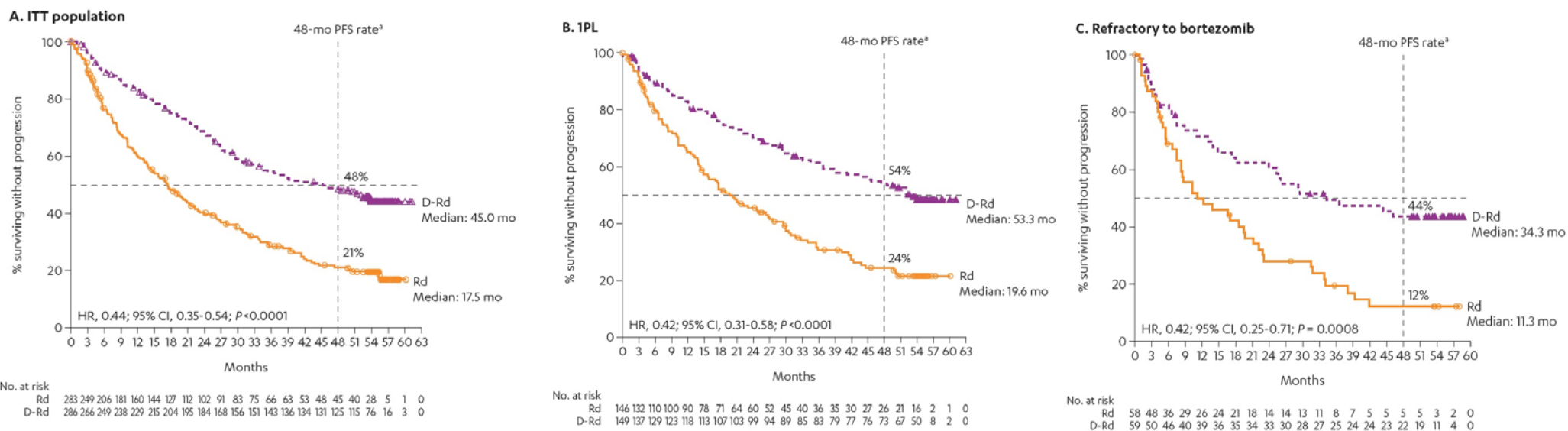
Jonathan L. Kaufman,^{1,*} Saad Z. Usmani,² Jesus San-Miguel,³ Nizar J. Bahlis,⁴ Darrell White,⁵ Lotfi Benboubker,⁶ Gordon Cook,⁷ Merav Leiba,⁸ P. Joy Ho,⁹ Kihyun Kim,¹⁰ Naoki Takezako,¹¹ Philippe Moreau,¹² Maria Krevvata,¹³ Huiling Pei,¹⁴ Jon Ukropec,¹⁵ Thomas Renaud,¹⁶ Sonali Trivedi,¹³ Rachel Kobos,¹⁶ Meletios A. Dimopoulos¹⁷

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Poster 1866: Four-Year Follow-up of the Phase 3 POLLUX Study of Daratumumab Plus Lenalidomide and Dexamethasone (D-Rd) Versus Lenalidomide and Dexamethasone (Rd) Alone in Relapsed or Refractory Multiple Myeloma (RRMM)



Poster 1866: Four-Year Follow-up of the Phase 3 POLLUX Study of Daratumumab Plus Lenalidomide and Dexamethasone (D-Rd) Versus Lenalidomide and Dexamethasone (Rd) Alone in Relapsed or Refractory Multiple Myeloma (RRMM)



PFS, progression-free survival; ITT, intent-to-treat; 1PL, 1 prior line of therapy; D-Rd, daratumumab plus lenalidomide/dexamethasone; Rd, lenalidomide/dexamethasone; HR, hazard ratio; CI, confidence interval.
^aKaplan–Meier estimate.

- After a median (range) follow-up of 54.8 (0-61.9) months, D-Rd significantly prolonged PFS versus Rd in the ITT population (median: 45.0 vs 17.5 months; HR, 0.44; 95% CI, 0.35-0.54; P<0.0001; Figure 2A)
 - D-Rd prolonged PFS versus Rd among patients who received 1 prior line of therapy (1PL; Figure 2B)
 - D-Rd also prolonged PFS versus Rd among patients who were refractory to bortezomib (Figure 2C)

Poster 1866: Four-Year Follow-up of the Phase 3 POLLUX Study of Daratumumab Plus Lenalidomide and Dexamethasone (D-Rd) Versus Lenalidomide and Dexamethasone (Rd) Alone in Relapsed or Refractory Multiple Myeloma (RRMM)

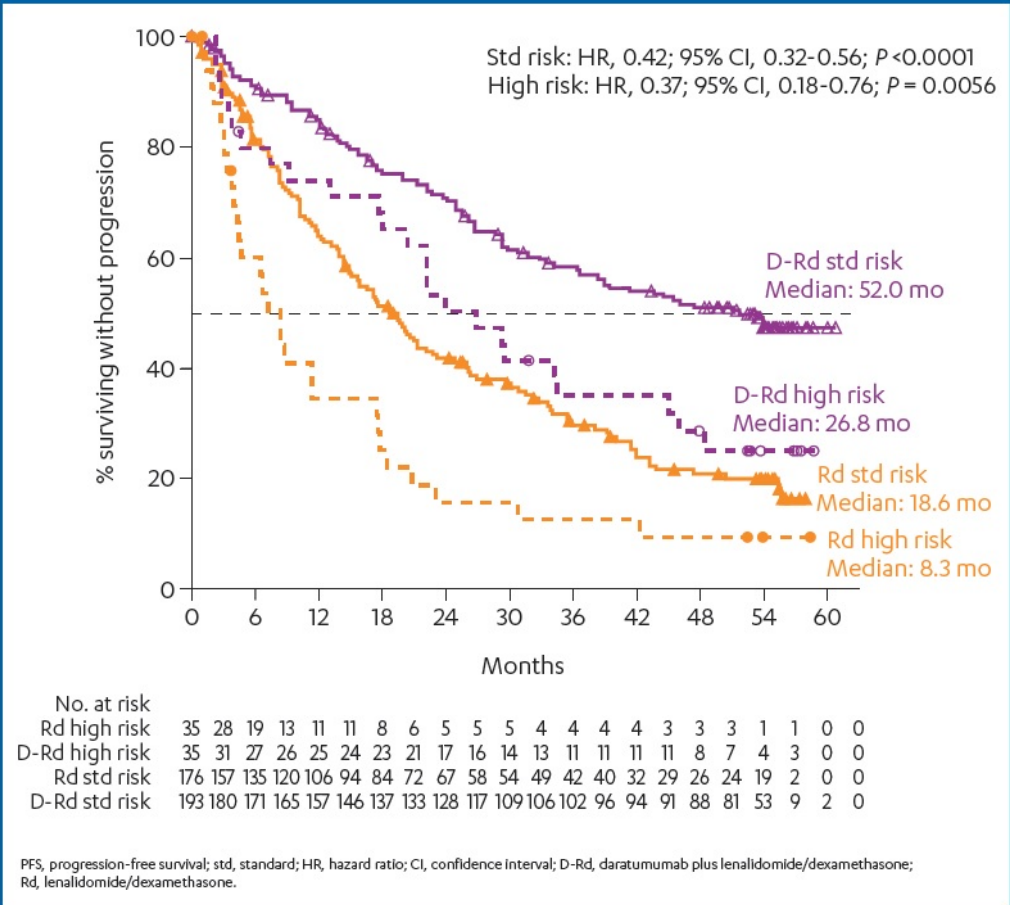


Figure 3. Updated PFS in patients with high or standard cytogenetic risk.

Poster 1866: Four-Year Follow-up of the Phase 3 POLLUX Study of Daratumumab Plus Lenalidomide and Dexamethasone (D-Rd) Versus Lenalidomide and Dexamethasone (Rd) Alone in Relapsed or Refractory Multiple Myeloma (RRMM)

CONCLUSIONS

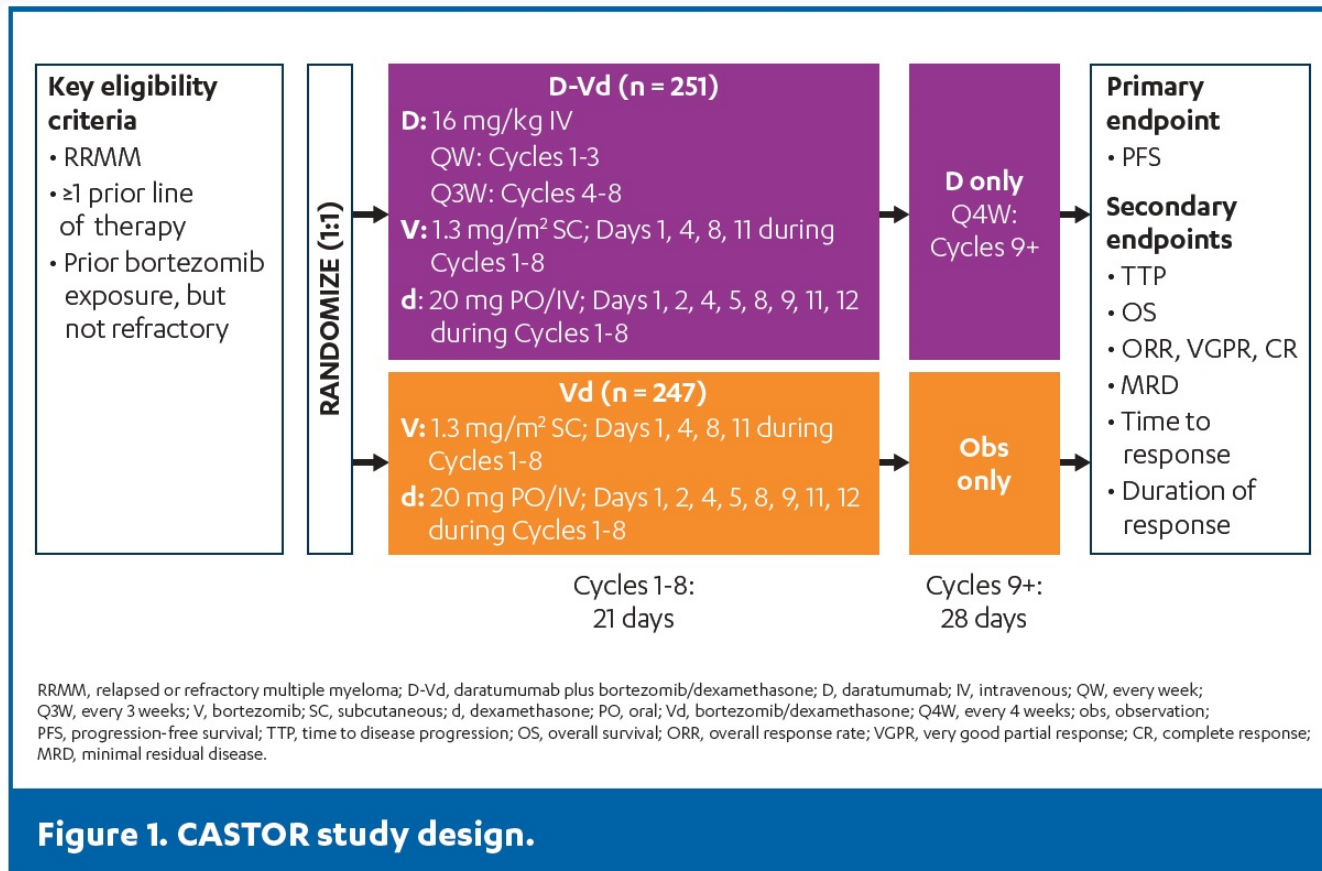
- ◆ **After >4 years of median follow-up, D-Rd continued to demonstrate significant efficacy benefits versus Rd alone in RRMM patients**
 - **PFS benefit was seen among patients who had 1PL and those with high or standard cytogenetic risk, as well as among patients with bortezomib refractoriness**
 - **D-Rd versus Rd achieved higher ORRs and deeper responses**
 - **D-Rd improved the rate of MRD negativity and was associated with sustained MRD negativity**
- ◆ **No new safety concerns were identified with longer follow-up**
- ◆ **These updated results continue to support the use of daratumumab combination therapies in patients with RRMM after 1PL**

Poster 3192: Efficacy and Safety of Daratumumab, Bortezomib and Dexamethasone (D-Vd) Versus Bortezomib and Dexamethasone (Vd) in First Relapse Patients (pts) with Multiple Myeloma (MM): Four-Year update of CASTOR

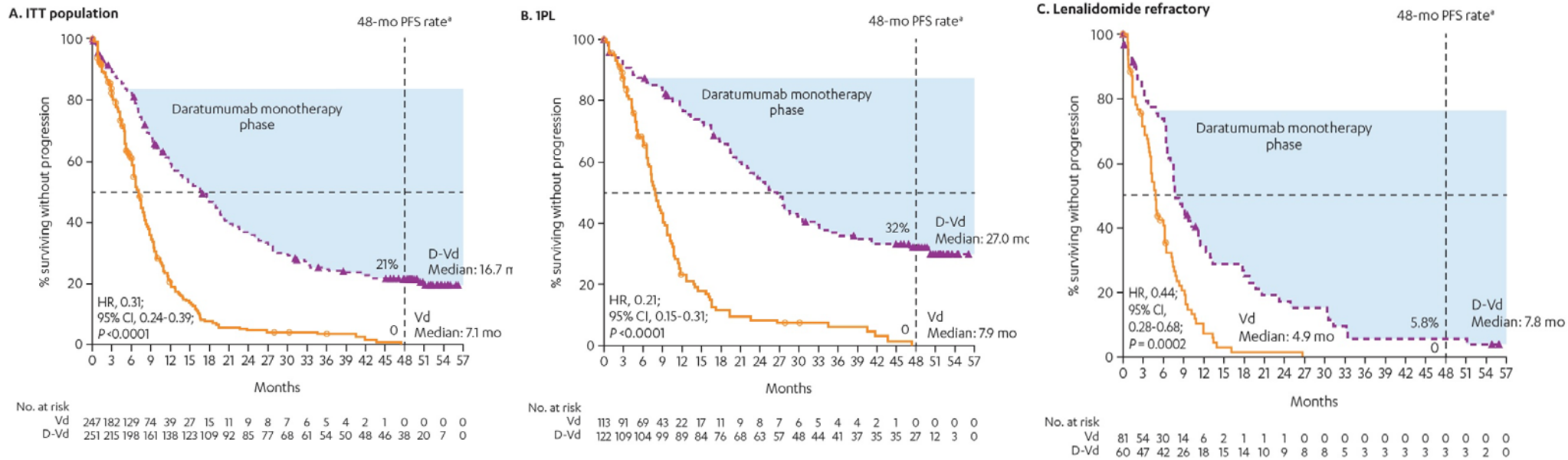
Katja Weisel,^{1,*} Pieter Sonneveld,² Maria-Victoria Mateos,³ Vania Hungria,⁴ Andrew Spencer,⁵ Jane Estell,⁶ Wolney Barreto,⁷ Paolo Corradini,⁸ Chang-Ki Min,⁹ Eva Medvedova,¹⁰ Maria Krevvata,¹¹ Sonali Trivedi,¹¹ Xiang Qin,¹¹ Huiling Pei,¹² Jon Ukropec,¹³ Rachel Kobos,¹⁴ Ming Qi,¹¹ Ajay K. Nooka¹⁵

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Poster 3192: Efficacy and Safety of Daratumumab, Bortezomib and Dexamethasone (D-Vd) Versus Bortezomib and Dexamethasone (Vd) in First Relapse Patients (pts) with Multiple Myeloma (MM): Four-Year update of CASTOR



Poster 3192: Efficacy and Safety of Daratumumab, Bortezomib and Dexamethasone (D-Vd) Versus Bortezomib and Dexamethasone (Vd) in First Relapse Patients (pts) with Multiple Myeloma (MM): Four-Year update of CASTOR



PFS, progression-free survival; ITT, intent-to-treat; 1PL, 1 prior line of therapy; D-Vd, daratumumab plus bortezomib/dexamethasone; HR, hazard ratio; CI, confidence interval; Vd, bortezomib/dexamethasone.
*Kaplan-Meier estimate.

- After a median follow-up of 50.2 months, PFS was significantly prolonged with D-Vd versus Vd in the ITT population (median: 16.7 vs 7.1 months; HR, 0.31; 95% CI, 0.24-0.39; P<0.0001; Figure 2A)
 - In patients receiving 1PL, D-Vd versus Vd improved PFS (Figure 2B)
 - PFS was also improved with D-Vd versus Vd among patients who were refractory to lenalidomide (Figure 2C)

Poster 3192: Efficacy and Safety of Daratumumab, Bortezomib and Dexamethasone (D-Vd) Versus Bortezomib and Dexamethasone (Vd) in First Relapse Patients (pts) with Multiple Myeloma (MM): Four-Year update of CASTOR

CONCLUSIONS

- ◆ With >4 years of median follow-up, D-Vd continued to demonstrate significant efficacy benefits versus Vd alone in RRMM patients
 - D-Vd induced deeper and more durable responses and improved MRD-negativity rates
 - PFS benefit with D-Vd was seen in both standard and high cytogenetic risk groups
- ◆ Efficacy benefits with D-Vd were especially pronounced in patients who received 1PL of therapy regardless of prior treatment with lenalidomide
 - Patients with 1PL of therapy had a 79% reduction in risk of disease progression or death versus Vd
- ◆ The safety profile of D-Vd remained consistent with longer follow-up, with no new safety concerns identified
 - A higher rate of invasive secondary primary malignancies was noted for patients who received D-Vd versus Vd, similar to previously reported CASTOR results^{9,13}; other phase 3 studies of daratumumab combination therapy reported balanced rates of secondary primary malignancies in both the daratumumab and control groups^{9,11-14}
- ◆ These updated results continue to support the use of daratumumab combination therapies in patients with RRMM after 1PL

Daratumumab Q&A

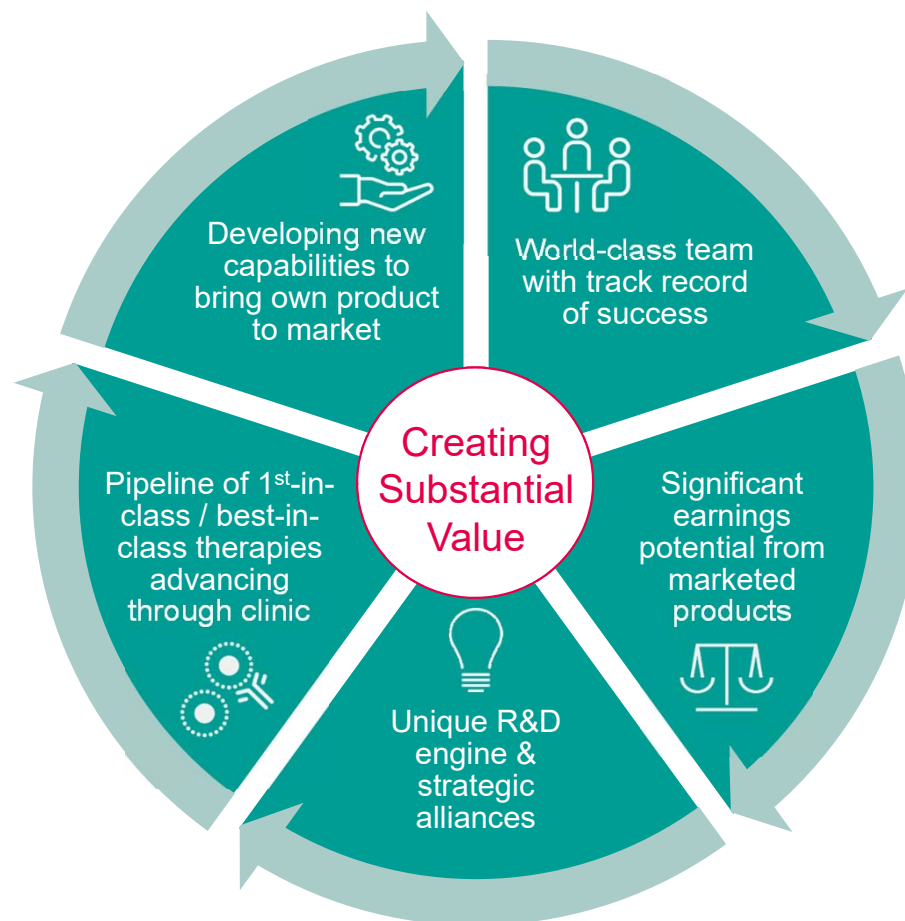


2020 & Beyond: Positioned for Success

Dr. Jan van de Winkel
President & CEO



Delivering on Genmab's Promise: Innovating Antibodies, Improving Lives



Key 2020 Priorities

Building a Strong Differentiated Product Pipeline

Priority	✓	Targeted Milestones
Genmab proprietary* products		<ul style="list-style-type: none"> » Tisotumab vedotin¹ - Phase II innovaTV 204 safety & efficacy analysis in recurrent/metastatic cervical cancer and engage U.S. FDA for BLA submission subject to trial results » Tisotumab vedotin - data on other solid tumor types » Enapotamab vedotin – data to support late stage development » DuoBody-CD3xCD20 Phase I/II – decision on recommended Phase II dose & initiate expansion cohorts » HexaBody-DR5/DR5 Phase I/II - advance dose escalation » DuoBody-PD-L1x4-1BB² Phase I/II – initiate expansion cohorts » File INDs and/or CTAs for 2 new products
Daratumumab ³		<ul style="list-style-type: none"> » U.S. FDA and EMA decision on Phase III COLUMBA multiple myeloma SubQ submission » sBLA and MAA Submission Phase III ANDROMEDA amyloidosis » sBLA and MAA submission Phase III APOLLO multiple myeloma
Ofatumumab ⁴		<ul style="list-style-type: none"> » U.S. FDA decision on regulatory dossier submission in multiple sclerosis
Teprotumumab ⁵		<ul style="list-style-type: none"> » U.S. FDA decision on Phase III OPTIC active thyroid eye disease submission

*Certain product candidates in development with partners, as noted.

1. 50:50 dev. w/ Seattle Genetics; 2. 50:50 dev. w/ BioNTech; 3. In dev. w/ Janssen; 4. In dev. by Novartis; 5. In dev. w/ Horizon Therapeutics

Q&A



A large, light gray circular graphic with a white border, filled with a pattern of white snowflakes and holly leaves. The text "HAPPY HOLIDAYS" is centered in a bold, red, serif font. Below the text is a decorative red line with ornate scrollwork at both ends and a central flourish consisting of two interlocking loops and a star. Small red stars are placed on the line between the loops and at the ends.

HAPPY HOLIDAYS

