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Jonathan L. Kaufman et al.

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Daratumumab (DARA) Plus Lenalidomide, Bortezomib, and Dexamethasone (RVd) in Patients with Transplant-Eligible Newly Diagnosed Multiple Myeloma (NDMM): Updated Analysis of Griffin after 12 Months of Maintenance Therapy

Jonathan L. Kaufman, MD¹, Jacob P. Laubach²*, Douglas Sborov, MD, MS³, Brandi Reeves, MD⁴, Cesar Rodriguez, MD⁵, Ajai Chari⁶*, Rebecca W. Silbermann, MD⁷, Luciano J. Costa, MD, PhD⁸, Larry D. Anderson Jr., MD, PhD⁹, Nitya Nathwani, MD¹⁰, Nina Shah, MD¹¹, Yvonne A. Efebera, MD, MPH¹². Sarah A. Holstein, MD, PhD¹³, Caitlin Costello¹⁴*, Andrzej Jakubowiak, MD, PhD¹⁵, Tanya M. Wildes, MD, MSc¹⁶, Robert Z. Orlowski, MD, PhD¹⁷, Kenneth H. Shain, MD, PhD¹⁸, Andrew J. Cowan¹⁹*, Yana Lutska, PharmD²⁰*, Padma Bobba²⁰*, Huiling Pei, PhD²¹*, Jon Ukropec, PhD²², Jessica Vermeulen, MD, PhD²³, Thomas S. Lin, MD, PhD²⁰, Paul G. Richardson, MD² and Peter M. Voorhees²⁴*

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

²⁴Levine Cancer Institute, Atrium Health, Charlotte, NC

*signifies non-member of ASH

Introduction: DARA, a human IgGκ monoclonal antibody targeting CD38, is approved as monotherapy and in combination with standard-of-care regimens for relapsed/refractory multiple myeloma and NDMM. In the primary analysis of the phase 2 GRIFFIN study (NCT02874742) in patients with transplant-eligible NDMM, DARA plus RVd (D-RVd) significantly improved rates of stringent complete response (sCR) by the end of post-transplant consolidation therapy versus RVd (Voorhees P, *Blood* 2020). Here, we present updated efficacy and safety results following 12 months of maintenance therapy with lenalidomide (R) or DARA plus R (D-R).

Methods: Patients with NDMM eligible for high-dose therapy (HDT) and autologous stem cell transplant (ASCT) were randomized 1:1 to RVd \pm DARA, stratified by ISS stage and creatinine clearance rate. Patients received 4 induction cycles, HDT, ASCT, 2 consolidation cycles, and maintenance with R \pm DARA for 24 months. During induction and consolidation, patients received R 25 mg PO on Days 1-14; V 1.3 mg/m² SC on Days 1, 4, 8, and 11; and d 40 mg QW every 21 days. DARA 16 mg/kg IV was given on Days 1, 8, and 15 of Cycles 1-4 and Day 1 of Cycles 5-6. During maintenance (Cycles 7-32), patients received R 10 mg (15 mg in Cycles 10+ if tolerated) on Days 1-21 every 28 days \pm DARA 16 mg/kg IV Q8W (or Q4W per patient decision after Amendment 2). The primary endpoint was rate of sCR at the end of post-ASCT consolidation per IMWG criteria, evaluated by a validated computer algorithm. Key secondary endpoints included progression-free survival (PFS) and rate of minimal residual disease (MRD) negativity (10⁻⁵ threshold per IMWG criteria) assessed by next-generation sequencing (clonoSEQ; Adaptive Biotechnologies). The primary hypothesis was tested at a 1-sided alpha of 0.10. All secondary analyses were evaluated using a 2-sided *P* value (alpha 0.05) and were not adjusted for multiplicity.

Results: In total, 207 patients were randomized (D-RVd, n=104; RVd, n=103). Baseline demographics and disease characteristics were well balanced between arms. At the end of post-transplant consolidation (median follow-up, 13.5 months) in the response-evaluable population, the sCR rate favored D-RVd versus RVd (42.4% [42.4% [42.99] vs 32.0% [31/97]; 1-sided *P*=0.0680). With additional D-R or R maintenance therapy, responses continued to deepen and remained higher for the D-RVd group versus the RVd group. At the 12-months-of-maintenance therapy data cut (median follow-up, 26.7 months), the sCR rate still favored D-RVd versus RVd (63.6% [63/99] vs 47.4% [46/97], 2-sided *P*=0.0253; *Figure*). MRD-negativity (10^{-5}) rates in the ITT population favored D-RVd versus RVd (62.5% [65/104] vs 27.2% [28/103], *P*<0.0001; *Figure*), as well as among patients who achieved complete response (CR) or better at that time (76.5% [62/81] vs 42.4% [25/59], *P*<0.0001). Similarly, MRD-negativity (10^{-6}) rates favored D-RVd versus RVd in the ITT population (26.9% [28/104] vs 12.6% [13/103], *P*=0.0140; *Figure*), as well as among patients who achieved CR or better at that time (34.6% [28/81] vs 18.6% [11/59], *P*=0.0555). Estimated 24-month PFS rates were 94.5% and 90.8% for the D-RVd and RVd groups, respectively. In total, 14 deaths occurred (n=7 per group), and 9 were due to progressive disease (D-RVd, n=5; RVd, n=4). With longer follow-up, no new safety concerns were observed. 84.8% (84/99) of patients in the D-RVd group and 79.4% (81/102) in the RVd group had grade 3/4 treatment-emergent adverse events (TEAEs). One grade 5 TEAE occurred in the RVd group, which was unrelated to study therapy (unknown cause). Infusion-related reactions occurred in 43.4% (43/99) of patients, with the majority being grade 1 or 2 and occurring in the first cycle.

Conclusions: After 26.7 months of median follow-up, the addition of DARA to RVd induction and consolidation, followed by D-R maintenance in patients with transplant-eligible NDMM continued to demonstrate deep and improved responses, including higher sCR and MRD negativity rates, compared with lenalidomide alone. Maintenance therapy increased sCR and MRD negativity rates, compared to post-consolidation rates. No new safety concerns were observed with longer follow-up.

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Figure. Summary of updated response rates^a (A) and MRD-negativity rates^b (B) over time in GRIFFIN.

MRD, minimal residual disease; ITT, intent-to-treat; D-RVd, daratumumab plus lenalidomide/bortezomib/dexamethasone; RVd, lenalidomide/bortezomib/dexamethasone; >CR, complete response; CR, complete response; VGPR, very good partial response; PR, partial response; SD/PD/NE, stable disease/progressive disease/not evaluable. "Response-evaluable population: D-RVd, n = 95; RVd, n = 97.

VITT population; D-RVd, n = 104; RVd, n = 103; median follow-up for MRD negativity data for all time points is 26.7 months

Disclosures:

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Ukropec: Janssen: Current Employment, Current equity holder in publicly-traded company. Vermeulen: Janssen: Current Employment, Current equity holder in publicly-traded company. Lin: Janssen Scientific Affairs: Current Employment, Current equity holder in publicly-traded company, Richardson: Celgene/BMS, Oncopeptides, Takeda, Karvopharm: Research Funding. Voorhees: TeneoBio: Other: Advisory Board; Oncopeptides: Consultancy, Honoraria; Novartis: Consultancy; Janssen: Other: Advisory Board; GSK: Honoraria; BMS: Other: Advisory Board; Adaptive Biotechnologies: Other: Advisory Board.

OffLabel Disclosure: The specific regimen combination is not yet approved, but individual components are.

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Rosario Pino, 14 - 4^a Planta. 28020 Madrid. Spain Tel.: +34 91 555 40 62. Fax: +34 91 555 76 89 E-mail: Miguel.Quesada@springer.com www.springerhealthcare.com www.springernature.com

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