

## Real-World Evidence on Patient-Reported Outcomes Among Newly Diagnosed Multiple Myeloma Patients Treated With Daratumumab-Based Regimens in Frontline

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#### Introduction

- Patients with multiple myeloma have a high symptom burden that leads to increased rates of anxiety and depression that negatively impacts HRQoL<sup>1-4</sup>
- Daratumumab (Dara)-based regimens have demonstrated clinical efficacy and improvements in HRQoL in both TE and TIE patients with NDMM in randomized clinical trials<sup>5-14</sup>; however, the impact of these regimens on PROs in the real world is not known
- This study examined PROs among patients with TE, TIE, or TD NDMM initiating these regimens as frontline therapy in the real world

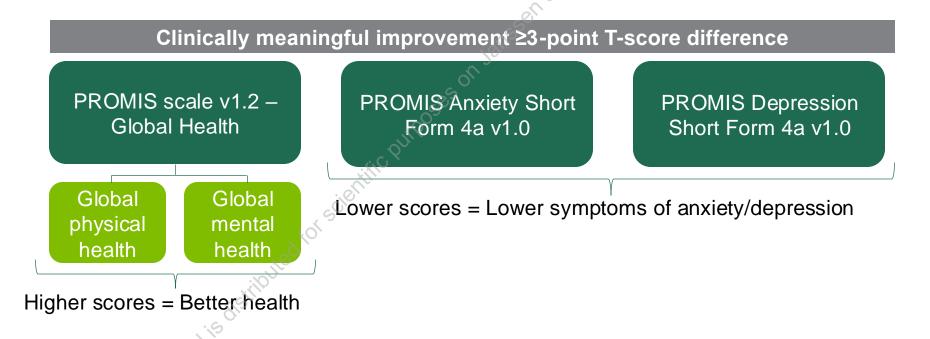
Dara, daratumumab; HRQoL, health-related quality of life; NDMM, newly diagnosed multiple myeloma; PRO, patient-reported outcome; TD, transplant deferred; TE, transplant eligible; TIE, transplant ineligible.

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#### **Methods**

- PROs were captured as part of the University of Alabama at Birmingham CARE-Heme registry
- PROs were collected between January 2020 and April 2024 among TE and TIE/TD patients with NDMM initiating frontline treatment with Dara-based regimens



CARE-Heme, Cancer and Aging Resilience Evaluation in Hematologic Malignancies; Dara, daratumumab; NDMM, newly diagnosed multiple myeloma; PRO, patient-reported outcome; PROMIS, Patient-Reported Outcomes Measurement Information System; TD, transplant deferred; TE, transplant eligible; TIE, transplant ineligible.



# Demographics and Baseline Characteristics

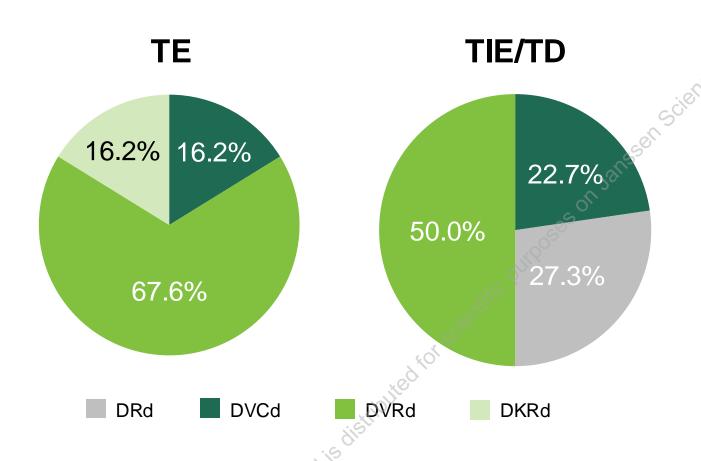
	TE (n=37)	TIE/TD (n=44)
Age group, n (%)	and	
<65 years	19 (51.4)	8 (18.2)
65 to <75 years	17 (45.9)	19 (43.2)
75 to <85 years	1 (2.7)	10 (22.7)
≥85 years	90	7 (15.9)
IMWG frailty index, n (%)	E O L	
Robust/fit	19 (51.4)	4 (9.1)
Intermediate frail	11 (29.7)	16 (36.4)
Frail	7 (18.9)	17 (38.6)
Missing  Quan-Charlson Comorbidity Index, n (%)  0-1  2  ≥3  Unknown  ECOG PS, n (%)	9	7 (15.9)
Quan-Charlson Comorbidity Index, n (%)		
0–1	25 (67.6)	17 (38.6)
2	5 (13.5)	2 (4.5)
≥3	7 (18.9)	20 (45.5)
Unknown	0	5 (11.4)
ECOG PS, n (%)		
0–1	31 (83.8)	21 (47.7)
PROs, mean baseline T-score (std)		
PROMIS physical health	45.2 (8.1)	39.5 (8.4)
PROMIS mental health	49.1 (9.2)	46.3 (8.6)
PROMIS anxiety	50.0 (8.6)	51.5 (9.8)
PROMIS depression	48.6 (8.3)	50.1 (8.9)

ECOG PS, Eastern Cooperative Oncology Group performance status; IMWG, International Myeloma Working Group; PRO, patient-reported outcome; PROMIS, Patient-Reported Outcomes Measurement Information System; TD, transplant deferred; TE, treatment eligible; TIE, transplant ineligible.





### **Treatment Regimens**

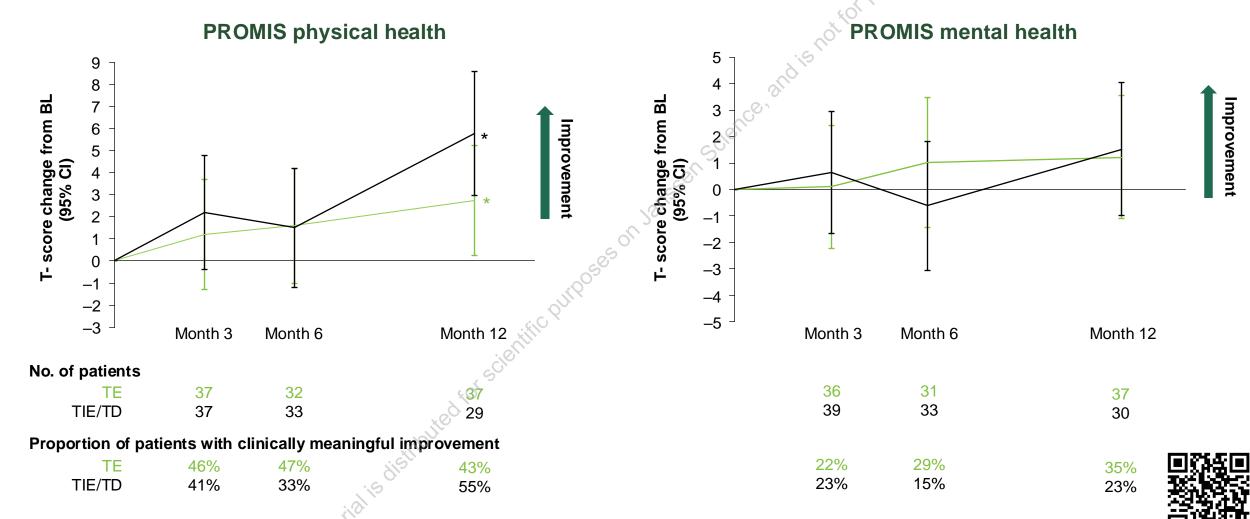


- All TE patients received quadruplet regimens, as did 72.7% of TIE/TD patients
- DVRd was the most common regimen in both cohorts

DKRd, daratumumab, carfilzomib, lenalidomide, and dexamethasone; DRd, daratumumab, lenalidomide, and dexamethasone; DVCd, daratumumab, bortezomib, cyclophosphamide, and dexamethasone; DVRd, daratumumab, bortezomib, lenalidomide, and dexamethasone; TD, transplant deferred; TE, transplant eligible; TIE, transplant ineligible.



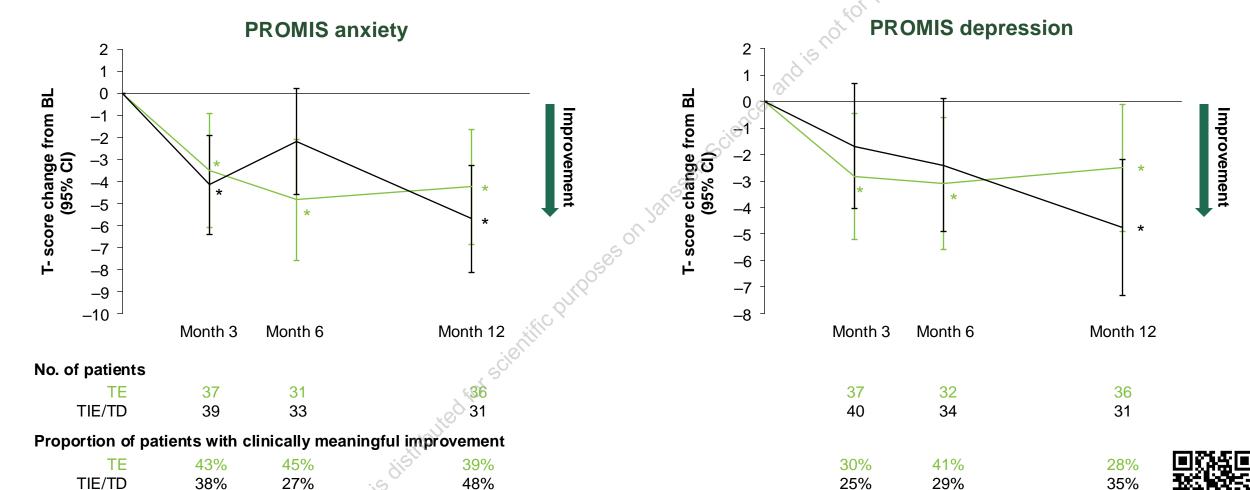
## **PROMIS Physical and Mental Health**



<sup>\*</sup>P<0.05 vs BL. BL, baseline; PROMIS, Patient-Reported Outcomes Measurement Information System; TD, transplant deferred; TE, transplant eligible; TIE, transplant ineligible.



## **PROMIS Anxiety and Depression**



<sup>\*</sup>*P*<0.05 vs BL

BL, baseline; PROMIS, Patient-Reported Outcomes Measurement Information System; TD, transplant deferred; TE, transplant eligible; TIE, transplant ineligible.



#### **Conclusions**

- TIE/TD patients had greater improvements in physical health, anxiety, and depression than TE patients despite being older and more frail
- Improvements in PROs were seen within 3 months of treatment initiation, and were sustained or enhanced with longer treatment
- These findings further support the use of Dara-based regimens in the frontline setting regardless of transplant eligibility, age, or frailty

In this real-world study, significant and clinically meaningful improvements in PROs were observed in TE and TIE/TD patients with NDMM treated with Dara-based regimens, consistent with the PROs observed in the clinical trials employing similar instruments



Dara, daratumumab; NDMM, newly diagnosed multiple myeloma; PRO, patient-reported outcome; TD, transplant deferred; TE, transplant eligible; TIE, transplant ineligible.

