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Long-Term Follow-Up From the Phase 1/2 **MajesTEC-1** Trial of **Teclistamab in Patients** With Relapsed/Refractory **Multiple Myeloma**

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Key Takeaway

With the longest follow-up of any bispecific antibody in multiple myeloma (median, 30.4 months), teclistamab continues to demonstrate deep and durable responses, including in patients who transition to less frequent dosing

Conclusions

Teclistamab ORR was 63.0%, with 46.1% of patients achieving ≥CR

Of MRD-evaluable patients, 85.7% were MRD negative at any point, sustained for ≥6 months in 56.1% and ≥12 months in 38.9%

Teclistamab mDOR increased to 24 months overall, and was NR for patients in ≥CR (30-month DOR rate, 60.8%)

Teclistamab offers an effective treatment for patients with TCE RRMM, with a manageable safety profile and no new safety signals

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Introduction

- Teclistamab is the first approved B-cell maturation antigen (BCMA) × CD3 bispecific antibody for the treatment of triple-class exposed (TCE) relapsed/refractory multiple myeloma (RRMM), with weight-based dosing1-3
- At 22.8-month median follow-up (mFU) in the MajesTEC-1 study, rapid, deep, and durable responses were observed in patients treated with teclistamab4
- Overall response rate (ORR) was 63.0%; complete response or better (≥CR) rate was 45.5%
- Median duration of response (DOR) was 21.6 months, median progression-free survival (PFS) was 11.3 months, and median overall survival (OS) was 21.9 months
- Here, we present longer-term results from MajesTEC-1 at 30.4-month mFU

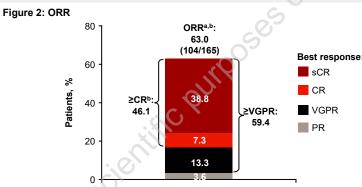
Results

Study population

- At 30.4-month mFU (data cut-off: Aug 22, 2023), 165 patients had received teclistamab at the RP2D
- Baseline characteristics have been previously presented^{3,4}
- 65 patients had transitioned to less frequent dosing (eg, Q2W)
- 38 patients remain on treatment (37 on a less frequent dosing schedule)

Efficacy

- ORR was 63.0% (≥CR, 46.1%); responses continued to deepen and remained durable (Figures 2 and 3)
- 85.7% (48/56) of minimal residual disease (MRD)-evaluable patients achieved MRD negativity (10^{-5} threshold), sustained for ≥ 6 months in 56.1% (23/41) and for ≥ 12 months in 38.9% (14/36); 30-month DOR, PFS, and OS rates were ≥80% for patients with sustained MRD negativity for ≥ 6 months (Table 1 and Supplemental Figure 2)
- DOR, PFS, and OS were further improved for patients who achieved very good partial response (VGPR) or better, ≥CR, or MRD negativity, and for those with ≤3 vs >3 prior lines of therapy (LOT) (Figure 4 and Table 1)
- No notable differences in baseline characteristics were observed between patients with ≤3 vs >3 prior I OT



^aResponse assessed by independent review committee. ^bAt 30-month mFU of the phase 2 efficacy population (patients enrolled in cohort A on or before March 18, 2021; n=110 patients supporting the USPI¹): ORR, 61.8%; ≥CR, 46.4% (n=51). sCR, stringent complete response; USPI, United States prescribing information.

Table 1: DOR, PFS, and OS in patient subgroups

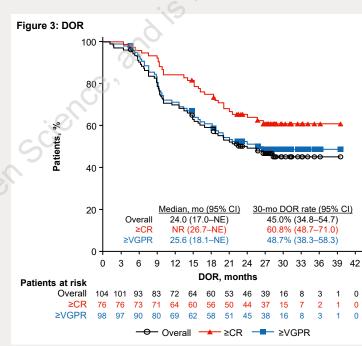
XO	mDOR, mo (95% Cl)	mPFS, mo (95% Cl)	mOS, mo (95% Cl)
All RP2D (N=165) ^a	24.0 (17.0-NE)	11.4 (8.8–16.4)	22.2 (15.1–29.9)
≥CR (n=76) ^a	NR (26.7–NE)	NR (26.9–NE)	NR (35.5–NE)
≥VGPR (n=98)ª	25.6 (18.1–NE)	26.7 (19.4–NE)	NR (31.0–NE)
MRD-neg (n=48) ^b	NR (19.2–NE)	NR (21.0–NE)	NR (29.9–NE)
≤3 pLOT (n=43)	24.0 (14.0-NE)	21.7 (13.8–NE)	NR (18.3–NE)
>3 pLOT (n=122)	22.4 (14.9-NE)	9.7 (6.4–13.1)	17.7 (12.2–29.7)
Phase 2 efficacy (USPI) (n=110) ^c	22.4 (14.9-NE)	10.8 (7.4–16.4)	21.7 (12.7–29.9)
≥CR (n=51) ^c	NR (21.6–NE)	NR (22.8–NE)	NR (NE-NE)

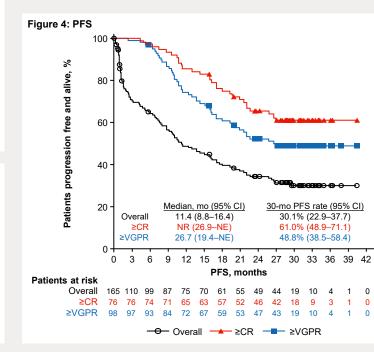
^aSupplemental Figure 1. ^bSupplemental Figure 2. ^cSupplemental Figure 3. mDOR, median duration of response; mOS, median overall survival; mPFS, median progres MRD-neg, MRD negative; NE, not estimable; NR, not reached; pLOT, prior line of therapy.

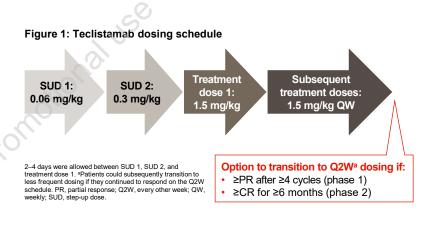
1. TECVAYLI (teclistamab-cqyv). Prescribing information. Horsham, PA: Janssen Biotech, Inc; 2022. 2. TECVAYLI (teclistamab). Summary of product characteristics. Leiden, Netherlands: Janssen Biologics BV; 2022. 3. Moreau P, et al. N Eng J Med 2022;387:495-505. 4. van de Donk NWCJ, et al. resented at ASCO; June 2-6, 2023; Chicago, IL, USA & Virtual. Poster #8011.

Methods

- The MajesTEC-1 study design has been previously described (NCT03145181, NCT04557098)³
- Eligible patients had TCE RRMM with no prior BCMA-directed therapy
- Primary endpoint: ORR
- Patients received teclistamab at the recommended phase 2 dose (RP2D), with the option to transition to less frequent dosing (Figure 1)







Safety

- The most common treatment-emergent adverse event (TEAEs) remained cytopenias and infections (Table 2)
- No changes in cytokine release syndrome (CRS) or immune effector cell-associated neurotoxicity syndrome at 30.4-month mFU
- Infections occurred in 78.8% of patients (grade 3/4, 55.2%)
- Of grade 5 infections, 18/22 were due to COVID-19
- No new grade 5 COVID-19 TEAEs at 30.4-month mFU Onset of new grade ≥3 infections continued to generally decline
- over time
- Factors such as transitioning to Q2W dosing and increasing use of immunoglobulin replacement may contribute to this
- TEAEs leading to dose reduction (n=1 [0.6%]) or discontinuation (n=8 [4.8%]; 5 due to infection) were infrequent
- No new safety signals were reported

	N=165		
TEAEs, n (%)	Any Grade	Grade 3/4	
Any TEAE	165 (100)	156 (94.5)	
Hematologic		•	
Neutropenia	118 (71.5)	108 (65.5)	
Anemia	91 (55.2)	62 (37.6)	
Thrombocytopenia	69 (41.8)	38 (23.0)	
Lymphopenia	60 (36.4)	57 (34.5)	
Leukopenia	33 (20.0)	15 (9.1)	
Nonhematologic		•	
Infections	130 (78.8)	91 (55.2)	
COVID-19	48 (29.1)	35 (21.2)	
CRS	119 (72.1)	1 (0.6)	
Diarrhea	57 (34.5)	6 (3.6)	
Pyrexia	51 (30.9)	1 (0.6)	
Fatigue	50 (30.3)	4 (2.4)	
Cough	46 (27.9)	0	
Nausea	45 (27.3)	1 (0.6)	
Injection site erythema	44 (26.7)	0	
Arthralgia	42 (25.5)	2 (1.2)	
Headache	40 (24.2)	1 (0.6)	
Constipation	37 (22.4)	0	
Hypogammaglobulinemia	36 (21.8)	3 (1.8)	
Back pain	33 (20.0)	4 (2.4)	

Table 2: TEAEs occurring in ≥20% of patients in MajesTEC-1



