Efficacy and Safety From the Phase 1/2 MonumenTAL-1 Study of Talquetamab, a GPRC5D×CD3 Bispecific **Antibody, in Patients** With Relapsed/Refractory **Multiple Myeloma: Analyses at an Extended Median Follow-Up**

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Key Takeaway

At an extended mFU (30–38 months), patients with RRMM treated with talquetamab continue to demonstrate deep and durable responses and tolerable safety with no new discontinuations due to **GPRC5D-related AEs**

Conclusions



High ORRs elicited by talquetamab were durable and led to promising 36-month OS rates (45-61%)

The safety profile continued to show lower risk of high-grade infections relative to approved anti-BCMA BsAbs,^{8,9} potentially contributing to the OS benefit with talquetamab and highlighting the humoral immune preservation that enables versatile use of talquetamab including in combination



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Introduction

- Talquetamab is the first and only approved bispecific antibody (BsAb) targeting G protein-coupled receptor class C group 5 member D (GPRC5D) for the treatment of relapsed/refractory multiple myeloma (RRMM)¹⁻³
- In previous results from the phase 1/2 MonumenTAL-1 study (clinical cut-off: Jan 2024; median follow-up [mFU], 21-30 months), talquetamab elicited deep, durable responses with low discontinuation rates4

We report efficacy and ongoing safety from MonumenTAL-1 at an extended mFU of 30-38 months, the longest mFU for any anti-GP RC 5D agent



*Due to rounding, individual response rates may not sum to the ORR. Since previous disclosure, 1 patient in the prior TCR QW and Q2W co hort dee pen ed in response (CR to sCR). PR, partial response; sCR, stringent complete resp

Table. mDOR and mPFS continued to demonstrate superior -∕outcomes in the Q2W vs QW cohort

Outcome	QW (n=143)	Q2W (n=154)	Prior TCR QW and Q2W (n=78)
mFU, mo	38.2	31.2	30.3
mD OR , mo (95% CI)ª	9.5 (6.7–13.4)	17.5 (12.5–25.1)	19.2 (8.1–24.7)
mPFS, mo (95% CI)	7.5 (5.7–9.4)	11.2 (7.7–14.6)	7.7 (4.1–14.5)
MRD neg (10 ⁻⁵), % (95% CI) ^b	64.3 (51.9–75.4)	65.2 (52.8–76.3)	57.1 (37.2–75.5)

n=10.6 (QW), n=10.7 (Q2W), n=52 (prior TCR QW and Q2W), bAssessed in patients with evaluable samples; n=70 (QW), n=69 (Q2W), n=28 (prior TCR QW and Q2W), Only MRD assessments (10-5) within 3 months of achieving CR or sCR until death disease progression. or subsequent therapy are considered. See Supplemental Table 1 for efficacy outcomes in the USP population (≥4 prior LOT), mDOR, median duration of response; mPFS, median pro n-free survival: MRD nea minima esidual dise ase negativity: USPI, US prescribing information.





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References

1. Verklei CPM, et al, Blood Adv 2021:52196-215, 2. Chari, A. et al, Lancet Haematol 2025:12:E269-E821, 3. TALVEY¹¹⁰ (talguetamab-tovs), Prescribing information, Horsham, PA: Janssen Biolech, Inc.: 2023, 4. Rasche L, et al, Presented at EHA; June 13–16, 2024; Madrid, Spain 5. Rajkumar SV, et al. Blood 2011;117:4691-5. 6. Kumar S, et al. Lancet Oncol 2016;17:328-46. 7. Lee DW, et al. Blol Blood Marrow Transplant 2019;25:625-38. 8. van de Donk NWCJ, et al. Presented al ASCO; June 2–6, 2023; Chicago, IL, USA & Virtual. #8011. 9. Tomasson M, et al. Blood 2023;142(supplement 1):3385.

Supplemental Table 1: Efficacy Outcomes in the USPI at promi **Population**

Outcome	QW (n=100)	Q2W (n=90)	Prior TCR QW and Q2W ^a (n=58)
ORR, %	73.0	71.1	72.4
≥CR	35.0	43.3	50.0
VGPR	22.0	17.8	8.6
PR	16.0	10.0	13.8
Median time to best response of ≥CR, ^b mo (range)	2.27 (1.1–12.7)	6.24 (1.2–16.8)	2.66 (1.2–17.5)
Median time to best response of VGPR, ^c mo (range)	1.97 (1.1–6.2)	3.06 (0.3–18.9)	2.04 (1.2–2.1)
Median time to best response of PR, ^d mo (range)	1.28 (1.1–2.9)	2.07 (1.2–2.8)	1.13 (1.1–3.0)
Median DOR, mo (95% Cl) ^e	10.2 (6.6–15.7)	17.9 (12.5–26.0)	19.2 (6.7–NE)
≥CR ^b	28.8 (18.9–NE)	26.1 (18.0–NE)	24.7 (19.2–NE)
VGPR ^c	6.4 (4.4–9.5)	9.3 (7.4–15.2)	4.8 (2.1–NE)
PR ^d	3.0 (1.9–5.6)	5.5 (0.9–6.5)	2.4 (1.9–4.6)
Median PFS (95% CI), mo	6.8 (5.5–10.4)	12.4 (9.6–18.2)	11.3 (4.8–21.4)
36-mo PFS, %	17.6 (10.7–26.0)	NE (NE–NE)	28.2 (16.0–41.7)
Median OS (95% CI), mo	NR (21.7–NE)	NR (33.2–NE)	30.6 (20.2–NE)
36-mo OS, %	50.5 (40.0–60.0)	NE (NE–NE)	46.4 (29.2–61.9)

Data are reported from phase 2 only.

^aPhase 2 data include the 0.4 mg/kg QW cohort only. ^bn=35 (QW), n=39 (Q2W), n=29 (prior TCR QW and Q2W). ^cn=22 (QW), n=5 (prior TCR QW and Q2W). ^dn=16 (QW), n=9 (Q2W), n=8 (prior TCR). ^en=73 (QW), n=64 (Q2W), n=42 (prior TCR QW and Q2W).

CR, complete response; DOR, duration of response; NE, not estimable; NR, not reached; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PR, partial response; Q2W, every other week; QW, weekly; TCR, T-cell redirection therapy; USPI, US prescribing information; VGPR, very good partial response.



Supplemental Table 2: Hematologic and Nonhematologic AEs

AE (≥30% in any cohort), n (%)	QW (n=143)		Q2W (n=154)		Prior TCR QW and Q2W (n=78)	
	Any Grade	Grade 3/4	Any Grade	Grade 3/4	Any Grade	Grade 3/4
Hematologic AE						
Anemia	65 (45.5)	46 (32.2)	67 (43.5)	39 (25.3)	38 (48.7)	22 (28.2)
Neutropenia	50 (35.0)	44 (30.8)	44 (28.6)	33 (21.4)	40 (51.3)	37 (47.4)
Thrombocytopenia	39 (27.3)	29 (20.3)	46 (29.9)	28 (18.2)	30 (38.5)	22 (28.2)
Nonhematologic AE			42			
CRS	113 (79.0)	3 (2.1)	116 (75.3)	1 (0.6)	57 (73.1)	1 (1.3)
Dysgeusiaª	103 (72.0)	NA	111 (72.1)	NA	59 (75.6)	NA
Infections ^b	87 (60.8)	33 (23.1)	109 (70.8)	33 (21.4)	61 (78.2)	20 (25.6)
Skin related ^c	85 (59.4)	0	113 (73.4)	1 (0.6)	53 (67.9)	0
Nail related ^d	80 (55.9)	0	84 (54.5)	0	47 (60.3)	0
Weight decreased	59 (41.3)	3 (2.1)	64 (41.6)	9 (5.8)	29 (37.2)	1 (1.3)
Rash related ^e	57 (39.9)	2 (1.4)	48 (31.2)	8 (5.2)	25 (32.1)	2 (2.6)
Pyrexia	57 (39.9)	4 (2.8)	44 (28.6)	2 (1.3)	27 (34.6)	0
Dry mouth	38 (26.6)	0	60 (39.0)	0	34 (43.6)	0
Fatigue	36 (25.2)	5 (3.5)	44 (28.6)	1 (0.6)	25 (32.1)	1 (1.3)

^aIncluding ageusia, dysgeusia, hypogeusia, and taste disorder. Per CTCAE, the maximum possible grade of dysgeusia is 2. ^bInfections are reported as a System Organ Class. ^cIncluding skin exfoliation, dry skin, pruritus, and palmar-plantar erythrodysesthesia syndrome. ^dIncluding nail discoloration, nail disorder, onycholysis, onychoclasis, nail dystrophy, nail toxicity, and nail ridging. ^eIncluding rash, maculopapular rash, erythematous rash, and erythema. AE, adverse event; CRS, cytokine release syndrome; CTCAE, Common Terminology Criteria for Adverse Events; NA, not applicable; Q2W, every other week; QW, weekly, TCR, T-cell redirection therapy.

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