# **Patient Characteristics**, **Treatment Patterns and** Early Outcomes of Patients with Relapsed or **Refractory Multiple** Myeloma (RRMM) Initiated on Talquetamab (TAL): An **Electronic Medical Record** and Chart Review Study

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# Key Takeaway

In this review of charts and electronic medical records of heavily pretreated patients with RRMM in the real world, TAL demonstrated an 81.8% overall response rate, with most patients completing SUD within one week and experiencing manageable safety events, consistent with clinical trial findings

# Conclusions



Most patients were able to complete TAL SUD within 1 week and majority of patients were on QW or Q2W schedule at the end of follow-up



Early safety profile was consistent with the clinical trial, with most CRS events being mild, most dysgeusia events were reported to improve, and most weight loss was <10%



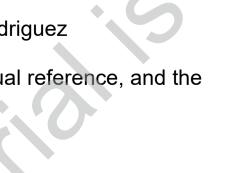
Together with the observed real-world response rate to TAL of 81.8%, these early findings support the use of TAL as an effective treatment option for patients with RRMM



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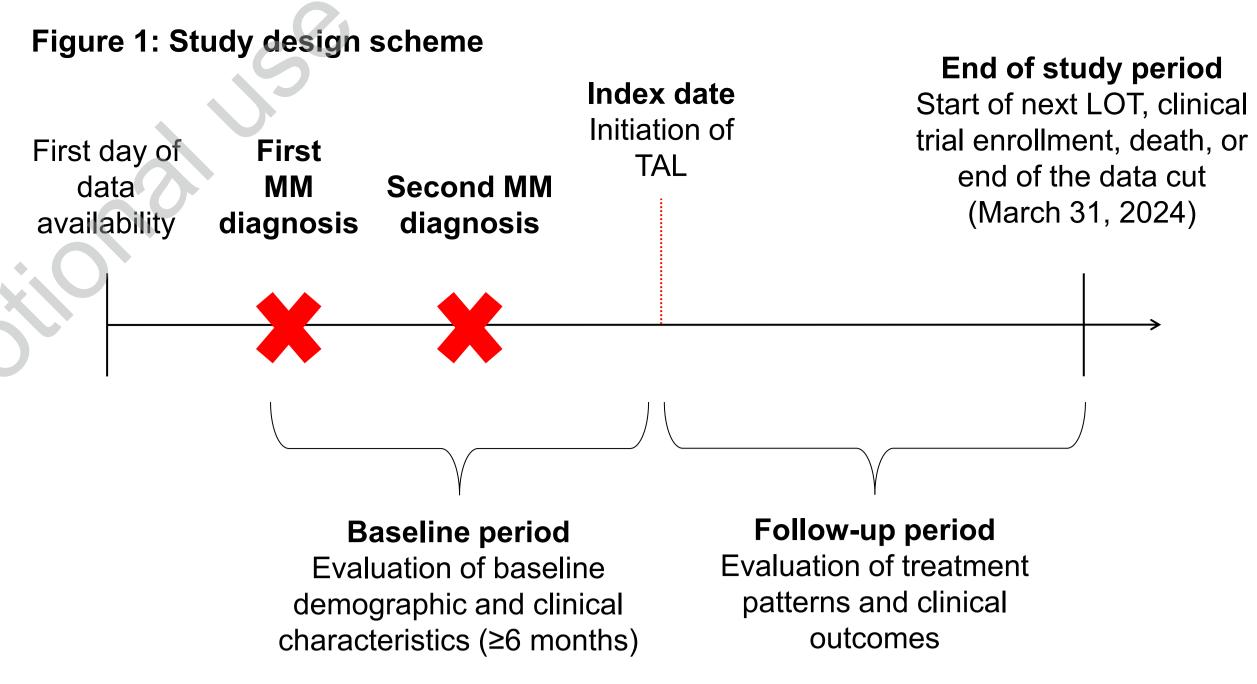


### Introduction

Introduction				Methods		
<ul> <li>TAL, a first-in-class T-cell redirecting bispecific antibody, was granted accelerated approval by the Food and Drugs Administration (FDA) in August 2023 for adults with RRMM who received ≥4 prior lines of therapy (LOT). To mitigate cytokine release syndrome (CRS), TAL is initiated with step-up dosing (SUD) including 2-3 step-</li> </ul>				Data source		
			eived ≥4 prior	<ul> <li>Data was used from Loopback Analytics (formerly Acentrus), an electronic medical records database</li> </ul>		
				<ul> <li>A chart review was conducted to supplement information from structured data, representing the safety data analysis set</li> </ul>		
<ul> <li>Phase 2 MonumenTAL-1 clinical trial<sup>1</sup> showed high overall response rates (ORR; 67-74%, depending on dose)</li> </ul>				Population		
<ul> <li>Common adverse events (AEs) were CRS (76%), skin-related</li> </ul>				<ul> <li>A retrospective cohort study of patients who:</li> </ul>		
AEs (41%), nail-related AEs (50%), and dysgeusia (70%) <sup>2</sup>				<ul> <li>Received TAL after FDA approval</li> <li>Had ≥2 diagnostic codes for MM, with ≥1 prior to the index date</li> </ul>		
<ul> <li>This study aimed to describe the real-world characteristics, SUD patterns, dosing schedule, and early data on safety and</li> </ul>			•	- Were aged ≥18 years		
effectiveness in patients with RRMM receiving TAL				– Had ≥6 months of clinical activity prior to the index date		
				<ul> <li>Did not have clinical trial enrollment during SUD</li> </ul>		
Results						
Patient characteristics				Treatment patterns	. 5	
<ul> <li>92 patients were included</li> </ul>	d			•	initiated TAL between August 2023	
<ul> <li>Median age was 69 years, 19.6% of patients being ≥75 years</li> </ul>			g ≥75 years	and December 2023, with similar trends in the safety data (92.0%) and effectiveness analyses sets (87.8%; <b>Figure 2</b> )		
<ul> <li>Prior to TAL initiation, a median of 3 prior LOTs were received – the majority of patients had received B-cell maturation antigen- targeted therapies (BCMAs: 59.8%), including bispecifics</li> </ul>				• Over a median duration of follow-up of 3.4 months, 83.7% of patients		
			pecifics	had complete SUD data <b>(Figure 3)</b> , of which 79.2% completed the SUD phase in 7-8 days, and the most common TAL SUD phase was bi-weekly (67.5%)		
			a analysis set)	<ul> <li>In the TAL treatment phase, 57.2</li> </ul>	1% of patients received ≥3 doses	
<ul> <li>14 of the 43 patients (32.6%) with ECOG available had an ECOG</li> </ul>			e had an ECOG	<ul> <li>14 (31.8%) and 28 (63.6%) patients were initially on weekly (QW) and biweekly (Q2W) schedules, respectively (Table 2)</li> </ul>		
<ul> <li>24 (48.0%) patients had 10 (20.0%) had extran</li> </ul>		-	ormalities, and	<ul> <li>Most patients were on QW (17) the end of follow-up (Table 2)</li> </ul>	1.9%) or Q2W (64.3%) schedule at	
<ul> <li>Response assessmen</li> </ul>		able for 33 pati	ents	Figure 2: TAL initiation date	Figure 3: TAL SUD phase	
(effectiveness analys	sis set)		. 7	36 (8.0%) (12.1%)	16	
Table 1: Patient characteristics				60 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -	(20.8%)	
	All patients	Safety data analysis set	Effectiveness analysis set <sup>1</sup>			
	N=92	N=50	N=33	56         46         29           20         60.9%)         (92.0%)         (87.8%)	61 (79.2%)	
Age (years), mean [median]	66.4 [69]	66.2 [68]	65.4 [67]			
Age ≥75, n (%)	18 (19.6)	7 (14.0)	4 (12.1)	All patients Safety data Effectiveness (N=92) analysis set analysis set		
Female, n (%) Race	43 (46.7)	25 (50.0)	17 (51.5)	(N=50) (N=33)	<ul> <li>Completed within 7-8 days</li> <li>Not completed within 7-8 days</li> </ul>	
Asian	7 (7.6)	6 (12.0)	6 (18.2)	■ 08/2023-12/2023 ■ 01/2024-03/2024		
Black	8 (8.7)	4 (8.0)	3 (9.1)	SUD: step-up dosing; TAL: talquetamab	SUD: step-up dosing; TAL: talquetamab	
White	64 (69.6)	37 (74.0)	21 (63.6)	Table 2: Dosing frequency at the en	d of follow-up, by initial dosing	
Other Quan-Charlson Comorbidity	13 (14.1)	3 (6.0)	3 (9.1)	schedule <sup>1</sup>		
Index, mean [median]	2.9 [2.0]	3.3 [2.0]	3.7 [2.0]	Initial dosing schedule (6-11 days)	Q2WQ3WQ4W(12-17 days)(18-24 days)(25-31 days)	
Comorbidities, n (%) Hypertension	31 (33.7)	19 (38.0)	12 (36.4)	QW (6-11 days; n=14) 4	7 2 1	
Renal impairment	21 (22.8)	12 (24.0)	9 (27.3)			
Anemia	49 (53.3)	28 (56.0)	19 (57.6)	Q2W (12-17 days; n=28) 1	20 1 6	
Peripheral neuropathy	35 (38.0)	17 (34.0)	13 (39.4)	QW: weekly; Q2W: every 2 weeks; Q3W: every 3 weel 1 Among patients with ≥3 treatment doses after SUD y	ks; Q4W: every 4 weeks; SUD: step-up dosing who received QW and Q2W doses (n=42). There were	
Hypogammaglobulinemia	29 (31.5)	15 (30.0)	10 (30.3)	two patients who received each of Q3W and Q4W dos		
Pneumonia	11 (12.0)	8 (16.0)	6 (18.2)	Adverse events of interest		
Fracture Drier DCMA experience	20 (21.7)	11 (22.0)	8 (24.2)	<ul> <li>For the 50 patients with abstrac</li> </ul>	ted chart review data. 23 (46.0%)	
Prior BCMA exposure CAR-T	55 (59.8) 26 (28.3)	28 (56.0) 14 (28.0)	19 (57.6) 10 (30.3)	•	had grade 1 CRS, 10 (20.0%) had	
Bispecifics (teclistamab, elranatamab)	38 (41.3)	19 (38.0)	13 (39.4)	grade 2 CRS, 1 (2.0%) had grad unknown grade <b>(Table 3)</b>	de 3 CRS, and 2 (4.0%) had CRS of	
Belantamab mafodotin	11 (12.0)	6 (12.0)	5 (15.2)	• •	ilizumab in 14 (28.0%) patients and	
ECOG score ≥2 <sup>2</sup> High-risk cytogenetic	-	14 (32.6)	12 (36.4)	dexamethasone in 9 (18.0%)		
abnormalities <sup>3</sup>	-	24 (48.0)	15 (45.5)	<ul> <li>Dysgeusia was reported in 34 ( (61.8%) had an improvement in</li> </ul>	68.0%) patients, of which 21 dysgeusia within a median of 77.5	
Extramedullary disease <sup>3</sup> BCMA: B-cell maturation antigen; CAR-T: chimer	•		•••	days <b>(Table 3)</b>	aysycusia within a methan or 77.5	
<ol> <li>Consists of 33 patients from the safety analysi</li> <li>ECOG is reported out of those with ECOG dat 38/43 (88.4%) of patients would have met eligibil</li> <li>Includes patients with del17p, t[14;16], t[14;20</li> <li>All patients without reported extramedullary dis</li> </ol>	is data set (i.e., with cha ta (n=43); 7 patients had lity criteria for the Monun ], and t[4;14] abnormaliti	rt review data) with evaluat unknown/missing ECOG o nenTAL-1 trial ies	ble response.	<ul> <li>Weight loss was reported in 24</li> </ul>	(48.0%) patients, with a median loss L initiation; most (87.5%) reported	

### References

1. Rasche et al. Long-term efficacy and safety results from the phase 1/2 monumental-1 study of talquetamab, a GPRC5D x CD3 bispecific antibody, in patients with relapsed/refractory multiple myeloma. 2024 European Hematology Association Hybrid Congress, June 2024. 2. Talvey (U.S. Food and Drug Administration) (2023). https://www.accessdata.fda.gov/drugsatfda\_docs/label/2023/761342s000lbl.pdf



LOT: line of therapy; MM: multiple myeloma; TAL: talguetamab

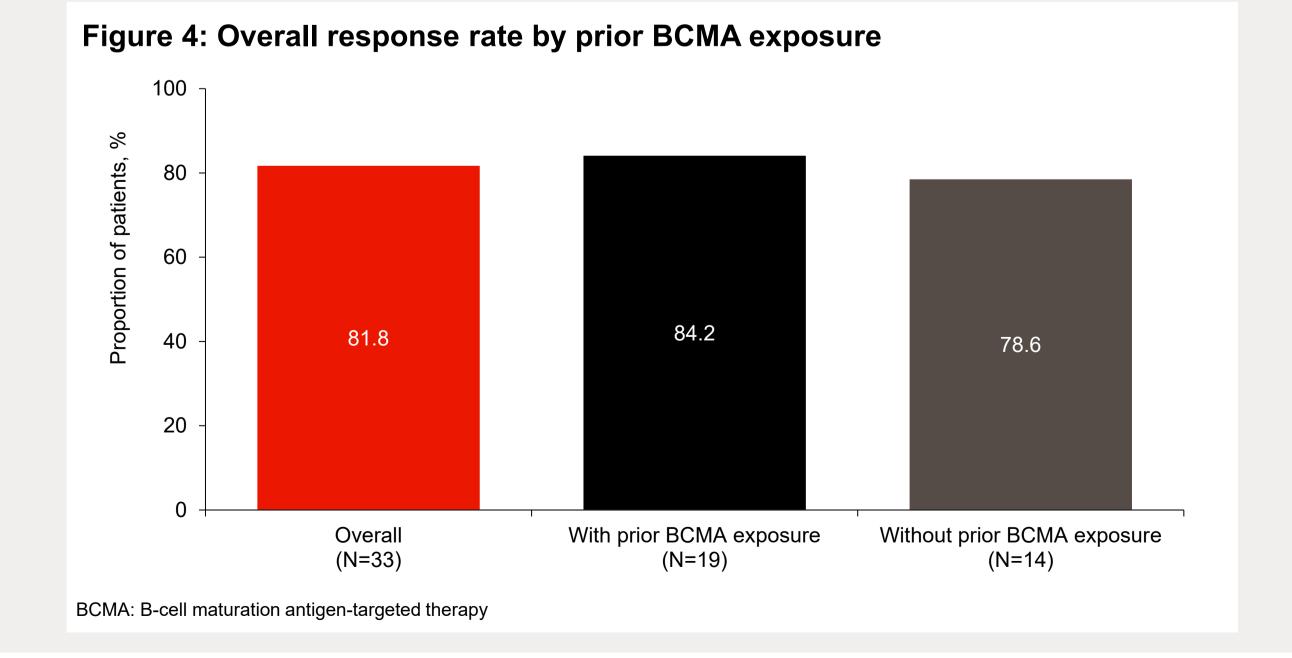
### Table 3: Adverse events of interest

Safety data analysis set	N=50
CRS <sup>1</sup> , n (%)	23 (46.0)
Grade 1 (Mild)	10 (20.0)
Grade 2 (Moderate)	10 (20.0)
Grade 3 (Severe)	1 (2.0)
Grade 4 (Life threatening)	0 (0.0)
Grade 5 (Death)	0 (0.0)
Missing/unknown	2 (4.0)
Use of tocilizumab	14 (28.0)
Therapeutic	13 (92.9)
Prophylactic	1 (7.1)
Use of dexamethasone <sup>2</sup>	9 (18.0)
Dysgeusia, n (%)	34 (68.0)
Improvement	
Yes	21 (61.8)
Days to improvement, mean [median]	79.0 [77.5]
No	6 (17.6)
Missing/unknown	7 (20.6)
Decrease in weight, n (%)	24 (48.0)
Median relative change (first to last TAL administration, kg),(%)	-6.5%
<5	9 (37.5)
5 - <10	12 (50.0)
10 - <20	3 (12.5)
≥20	0 (0.0)

CRS: Cytokine release syndrome; kg: kilograms; TAL: talquetamab 1. Of patients without reported CRS, 5 had no CRS reported and 22 were reported as missing/unknown. CRS grading is reported as highest grade (i.e., mutually exclusive) 2. All dexamethasone use was therapeutic

Physician-reported response

• Over a median duration of follow-up of 5.3 months, the ORR was 81.8% for overall patients with evaluable response; 84.2% and 78.6% for patients with and without prior BCMA exposure, respectively (Figure 4)



### Multiple Myeloma

