

Prophylactic Interventions for Oral Toxicities With the GPRC5D×CD3 Bispecific Antibody Talquetamab in Relapsed/Refractory Multiple Myeloma: An Update on the Open-Label, Phase 2, Randomized TALISMAN Study

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Current Status

TALISMAN opened for enrollment in August 2024

Conclusions

TALISMAN is a randomized, multicenter, open-label, phase 2 study registered at ClinicalTrials.gov, NCT06500884

TALISMAN will provide potential strategies to prevent, manage, and decrease the severity of Tal-related oral toxicities as well as needed data on taste-related assessment tools

Results from TALISMAN will also elucidate the potential impact of toxicities on patient treatment experience with Tal

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Supplementary material

<https://www.congresshub.com/Oncology/AM2025/Talquetamab/Sanchez>

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Disclosures
LS reports a consulting/advisory role for Johnson & Johnson, and has received honoraria from Johnson & Johnson.

Introduction

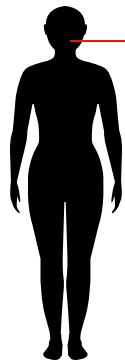
- Talquetamab (Tal), the first approved G protein–coupled receptor class C group 5 member D (GPRC5D)-targeting bispecific antibody for relapsed/refractory multiple myeloma (RRMM), demonstrated high overall response rates (ORRs) and durable responses in the MonumenTAL-1 study (NCT03399799/NCT04634552)¹⁻⁴
- Oral toxicities, including dysgeusia, are common adverse events (AEs) with Tal and may impact patient quality of life⁵ (Figure 1)
- We provide an update on the TALISMAN study, which investigates prophylactic interventions for oral toxicities using objective and patient-derived assessment tools⁶



TALISMAN will help measure taste changes and implement mitigation strategies in future studies of patients with multiple myeloma



Figure 1. Oral on-target, off-tumor AEs associated with GPRC5D-targeting therapies, including Tal



- Oral-related AEs including, but not limited to:
- Dysgeusia: distorted taste
 - Ageusia: lack of taste
 - Hypogeusia: less sensitivity to taste
 - Xerostomia: feeling of dry mouth
 - Dysphagia: difficulty swallowing
 - Oral mucositis: inflammation and ulcerations in the mouth

No. of patients with oral-related AEs, ^a n (%)	MonumenTAL-1	
	Tal QW (n=143)	Tal Q2W (n=154)
Any Grade	103 (72)	110 (71)
Leading to dose reduction	10 (7)	6 (4)
Leading to discontinuation	0	3 (2)

^aIncluding ageusia, dysgeusia, hypogeusia, and taste disorder. Q2W, every other week; QW, weekly.

Methods



Figure 2. TALISMAN is a randomized, multicenter, open-label, phase 2 study

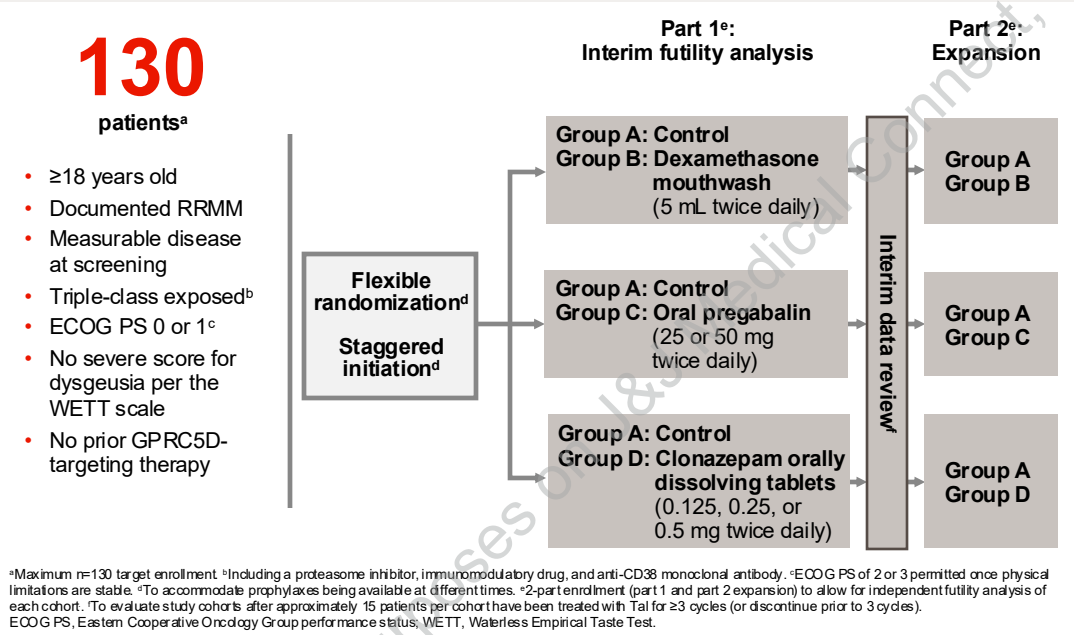


Figure 3. TALISMAN is being conducted at multiple sites in 6 countries

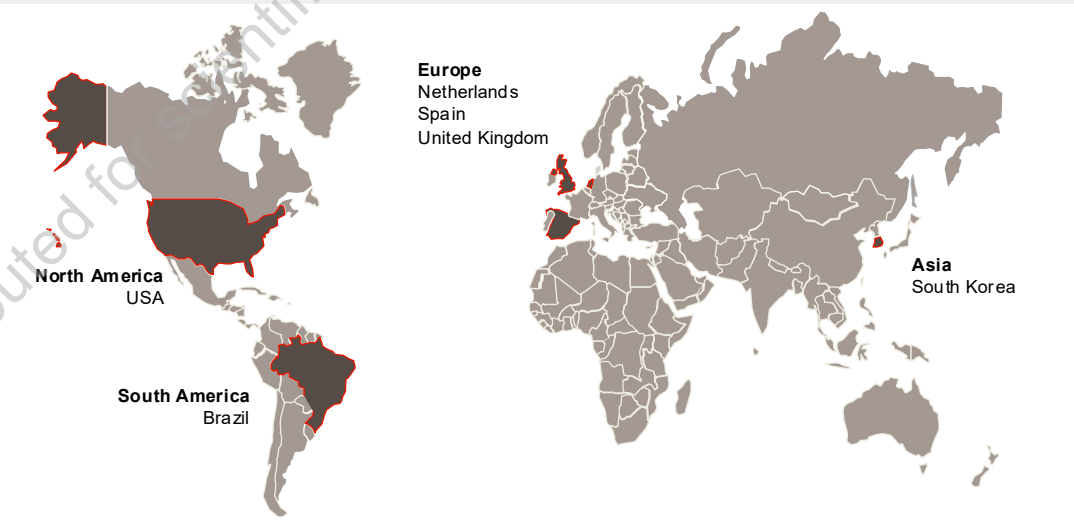


Figure 4. TALISMAN is conducted in 3 phases and includes assessment of oral toxicities and smell utilizing objective and patient-reported measures

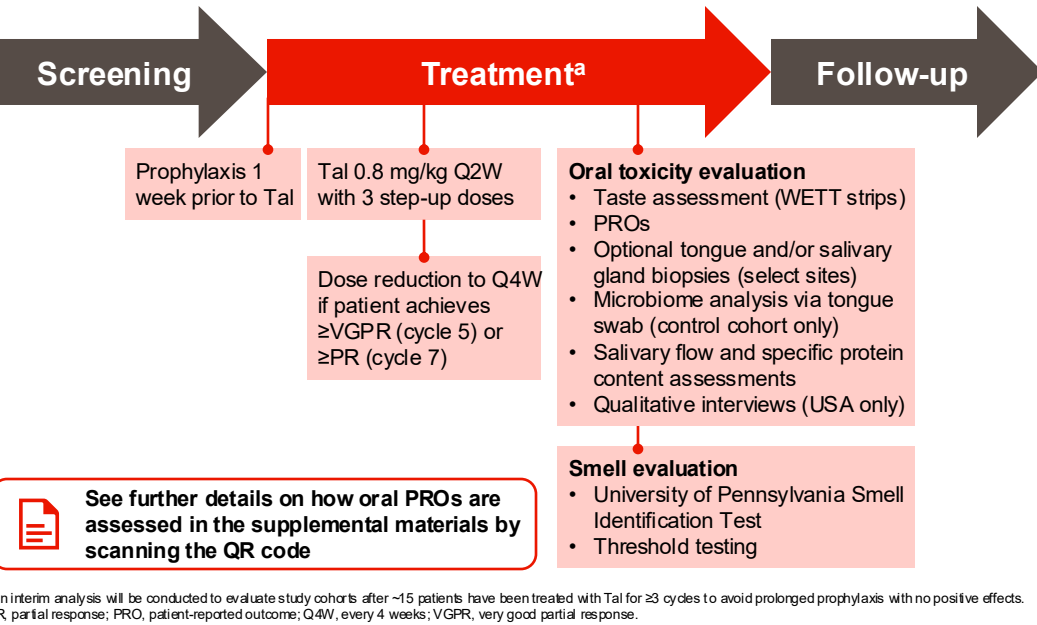


Table. Endpoints of TALISMAN include outcomes of dysgeusia, efficacy of prophylaxis, efficacy of Tal, safety, and PROs

Primary endpoint	
Rate of occurrence of dysgeusia (25th percentile or below) and severe dysgeusia (10th percentile or below) based on WETT score, time to first onset of severe dysgeusia, and rate of resolution/improvement of dysgeusia at 3 and 6 months	
Secondary endpoints	
Efficacy of prophylaxis <ul style="list-style-type: none">Change from baseline in WETT score over timePercentage of time with dysgeusiaChange from baseline in body weight and BMI over timeChange from baseline in results of smell identification and smell detection threshold test	Safety <ul style="list-style-type: none">Incidence, severity, timing, and duration of AEs, including oral toxicities (dysgeusia, oral mucositis, dysphagia, xerostomia)
Efficacy of Tal <ul style="list-style-type: none">ORR (≥PR), ≥VGPR rate, ≥CR rate, duration of response, PFS, time to response	PROs <ul style="list-style-type: none">Change from baseline in health-related quality-of-life assessments (EORTC QLQ-C30 and EORTC QLQ-OH15)Proportion of patients reporting oral symptoms using the PRO-CTCAE, Short Xerostomia Inventory, Epstein Taste Scale, and Scale of Subjective Total Taste Acuity

BMI, body mass index; CR, complete response; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer quality of life questionnaire core 30; EORTC QLQ-OH15, European Organisation for Research and Treatment of Cancer quality of life questionnaire-oral health; PFS, progression-free survival; PRO-CTCAE, patient-reported outcomes version of the Common Terminology Criteria for Adverse Events.

References

- Verkeij CPM, et al. *Blood Adv* 2021;5:2196-215. 2. TALVEY™ (talquetamab-igvs). Prescribing information. Horsham, PA: Janssen Biotech, Inc.; 2023. 3. European Medicines Agency. TALVEY™ (talquetamab). Accessed July 26, 2024. <https://www.ema.europa.eu/en/medicines/humans/summaries-opinion/talvey>. 4. Rasche L, et al. Presented at EHA 2024 Hybrid Congress; June 13–16, 2024; Madrid, Spain. P915. 5. Chari A, et al. *Clin Lymphoma Myeloma Leuk* 2024; S2152-2650(24)00174-5. 6. Popat R, et al. Presented at IMS; September 25–28, 2024; Rio de Janeiro, Brazil.

