

INSIGHTS INTO RANGE OF MOTION (ROM) AND PHYSICAL FUNCTION (PF) CHANGES EXPERIENCED BY PATIENTS WITH TENOSYNOVIAL GIANT CELL TUMOR (TGCT) IN THE MANEUVER PHASE 3 TRIAL: RESULTS FROM EXIT INTERVIEWS

Vinod Ravi,¹ Paul Kamudoni,² Andrea Phillips Beyer,² Niki Karachaliou,² Qingping Zou,³ Amy Clark,⁴ Agkreta Leventi,⁴ Savita Bakhshi Anand,⁴ Carla Dias-Barbosa,⁵ Hans Gelderblom⁶

¹The University of Texas MD Anderson Cancer Center, Houston, TX, USA; ²The Healthcare business of Merck KGaA, Darmstadt, Germany; ³Abbisko Therapeutics Co. Ltd., Shanghai, China; ⁴PPD Evidera Patient-Centered Research, Thermo Fisher Scientific, London, United Kingdom; ⁵PPD Evidera Patient-Centered Research, Thermo Fisher Scientific, Ivry-sur-Seine, France; ⁶Leiden University Medical Center, Leiden, The Netherlands



CONCLUSION

- Similar to the findings of the clinical trial data, ROM and physical function were highlighted as important aspects of the patient experience
- This study highlights the baseline impact of TGCT on ROM and physical function, with most patients reporting difficulties in these domains
- Most patients treated with pimecortinib reported improvements in ROM and physical function at the end of Part 1 of MANEUVER
- Most patients confirmed their understanding of Patient-Reported Outcomes Measurement Information System-Physical Function (PROMIS-PF) measures and ROM and confirmed their relevance to their affected joint
- Results support the content validity of PROMIS-PF measures used in MANEUVER. In this exit interview analysis, a 1- or 2-category change was clinically meaningful for improvement in PROMIS-PF items (bending/kneeling, going outside the home, lifting or carrying, and household work). Anchor-based analysis of the MANEUVER trial data established a 3–5-fold improvement in the PROMIS-PF total score as a clinically meaningful improvement



PLAIN LANGUAGE SUMMARY

- TGCT is a rare disease where an abnormal growth of cells (tumor) forms in and around a joint. Without proper treatment, TGCT can cause lasting joint damage and reduced quality of life
- The MANEUVER trial compared pimecortinib with a placebo ('dummy' treatment) for the treatment of TGCT
- Health authorities are interested in understanding patients' experiences with treatments. To capture this, some patients in the MANEUVER trial took part in interviews after 24 weeks in the trial. These interviews explored how patients' ability to carry out daily activities and move their joints changed after taking pimecortinib, and what level of improvement they considered meaningful
- Before the trial, most patients had difficulties in moving the affected joint and doing everyday activities. During the interviews, most patients who received pimecortinib reported better joint movement and improved ability to do daily activities
- Patients also said the tools used in this study to measure these improvements were relevant to them and easy to understand



INTRODUCTION

- TGCT is a rare and locally aggressive soft-tissue tumor driven by the overexpression of colony-stimulating factor-1 (CSF-1). This growth factor promotes the recruitment, proliferation, and accumulation of CSF-1 receptor (CSF-1R)-expressing inflammatory cells at the tumor site¹⁻³
- While not life threatening, TGCT can cause joint destruction, pain, and stiffness. These pathological changes directly impair physical function and ROM, impacting a patients' ability to perform daily activities and leading to reduced quality of life⁴⁻⁶
- The current standard of care for TGCT is surgery, which is limited by high recurrence rates and cumulative morbidity. Other treatment options include systemic treatments and active surveillance. Long-term use of systemic treatments requires consideration of both clinical benefit and tolerability over time^{2,4}
- Pimecortinib is an oral, once-daily, potent, and highly selective small molecule CSF-1R inhibitor⁵
- In the Phase 3 MANEUVER trial (NCT05804045), pimecortinib demonstrated early, robust, and durable tumor responses that significantly reduced tumor burden and improved TGCT-associated clinical outcome assessments (including ROM, Worst Pain numeric rating scale [NRS], Worst Stiffness NRS, and PROMIS-PF), with a tolerable and manageable safety profile⁶
- Exit interviews explored the impact of TGCT on physical function and ROM during the MANEUVER trial and assessed the content validity of PROMIS-PF and relative ROM measures



OBJECTIVE

- To characterize patient-perceived changes in ROM and physical function among a subgroup of patients enrolled in the global Phase 3 MANEUVER trial



RESULTS

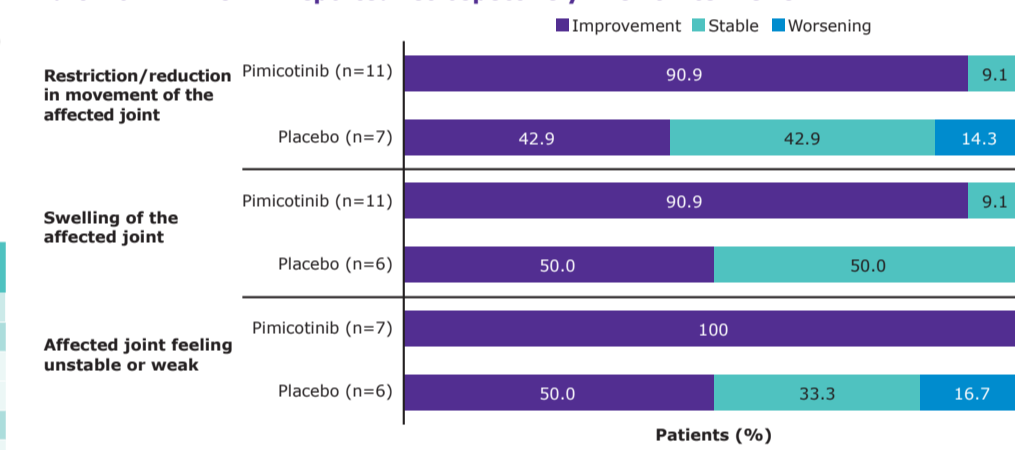
DEMOGRAPHICS AND CLINICAL CHARACTERISTICS

- Overall, 20 patients were interviewed (pimecortinib, n=12; placebo, n=8)
 - Most patients were female (65.0%) and half resided in the USA (25.0%) or The Netherlands (25.0%)
 - The mean (standard deviation [SD]) age was 43.0 (13.5) years
- Most patients had a lower extremity (95.0%; n=19/20) affected by TGCT and one patient had an upper extremity (5.0%; n=1/20) affected (Table 1)

Table 1. Demographics and clinical characteristics

	Total sample (N=20)	Pimecortinib (n=12)	Placebo (n=8)
Age, mean, years (SD)	43 (13.5)		
Sex, n (%)			
Female	13 (65.0)		
Male	7 (35.0)		
Country, n (%)			
USA	5 (25.0)		
The Netherlands	5 (25.0)		
Italy	4 (20.0)		
China	3 (15.0)		
Canada	2 (10.0)		
Spain	1 (5.0)		
Joint affected by TGCT, n (%)			
Lower extremity	19 (95.0)	11 (91.7)	8 (100)
Right knee	7 (35.0)	3 (27.3)	4 (50.0)
Left knee	4 (20.0)	3 (27.3)	1 (12.5)
Knee (not specified)	2 (10.0)	1 (9.1)	1 (12.5)
Ankle (not specified)	1 (5.0)	1 (9.1)	0
Left ankle	1 (5.0)	1 (9.1)	0
Left foot	1 (5.0)	0	1 (12.5)
Foot (not specified)	1 (5.0)	1 (9.1)	0
Left hip	1 (5.0)	0	1 (12.5)
Right hip	1 (5.0)	1 (9.1)	0
Upper extremity	1 (5.0)	1 (8.3)	0
Right wrist	1 (5.0)	1 (100)	0

Figure 3. Patient-reported change in symptoms related to ROM at the end of Part 1 of MANEUVER reported retrospectively in exit interviews

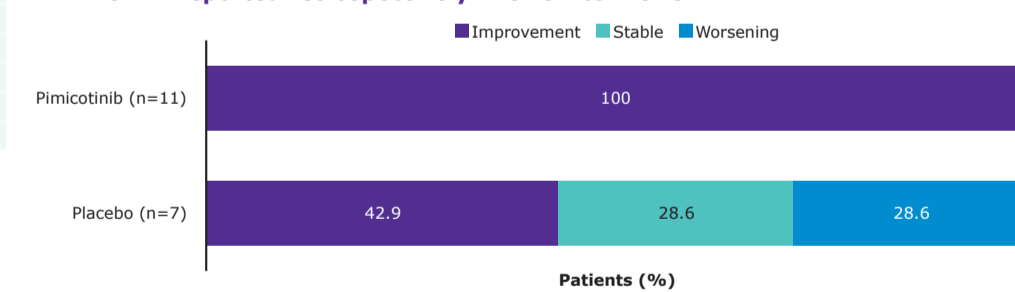


Some patients were not specifically asked or probed about some items due to the natural flow of the interview and/or time constraints. Data are reported for the patients who answered questions on these items during exit interview. Interview guide question: "Now, I would like to ask you to think about how your symptoms have changed since you entered the clinical trial and completed Part 1 of the MANEUVER study, approximately 6 months after entering the clinical trial"; PRO scores were derived from patients' responses provided during interviews. As these responses relied on patient recall, there is a potential for recall bias.

PATIENT-REPORTED IMPACT ON PHYSICAL FUNCTION AT BASELINE AND AT THE END OF PART 1 OF MANEUVER

- At baseline, 95.0% (n=19/20) of patients reported at least one impact in a PROMIS-PF domain, including restrictions in walking, lifting, climbing stairs, and bending
- During interviews, improvements in PROMIS-PF items compared with baseline were reported by 11/11 patients (100%) treated with pimecortinib and 3/7 patients (42.9%) treated with placebo (Figure 4)

Figure 4. Patient-reported change in physical function at the end of Part 1 of MANEUVER reported retrospectively in exit interviews



Some patients were not specifically asked or probed about some items due to the natural flow of the interview and/or time constraints. Data are reported for the patients who answered questions on these items during exit interview. Interview guide question: "Which items are relevant to you?" and "Are the items easy to understand and interpret?" PRO scores were derived from patients' responses provided during interviews. As these responses relied on patient recall, there is a potential for recall bias.

RELEVANCE AND UNDERSTANDING OF PROMIS-PF

- Of patients questioned about PROMIS-PF (lower extremity) measures, all confirmed their understanding (100%; n=11/11) and its relevance to them (100%; n=17/17)
- The patient with an upper extremity affected by TGCT confirmed their understanding of PROMIS-PF (upper extremity) measures and its relevance to them
- Of patients reporting on meaningful improvement thresholds for four of the PROMIS-PF items, most found a 1- or 2-category change meaningful (Table 2)



METHODS

- Exit interviews were conducted as part of the MANEUVER trial among patients with TGCT who completed the 24-week, double-blind, placebo-controlled phase (Part 1) (Figure 1)
- Telephone or web-assisted interviews were conducted across 6 countries (Canada, China, Italy, Spain, The Netherlands, and the USA) within 4 weeks of completion of Part 1 of MANEUVER
- Saturation of concepts was assessed on symptoms and impacts experienced at baseline and was reached for all symptom and impact categories
- The PROMIS-PF is a self-administered 121-item bank that assesses various aspects of physical functioning
 - In MANEUVER, physical functioning was assessed in patients with TGCT using the PROMIS-PF short form for upper and lower extremities (Figure 2)⁶
- ROM was assessed, using a goniometer (a handheld device used to measure joint mobility), against a ROM standard reference value to obtain relative ROM values⁶

Figure 1. Study design

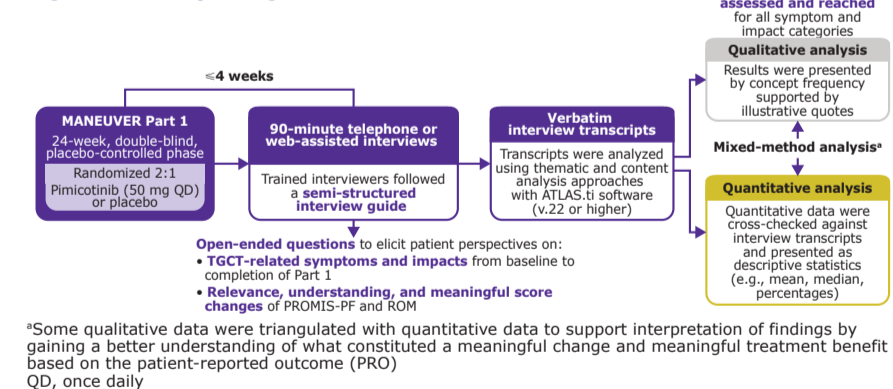


Figure 2. PROMIS-PF items for Upper and Lower Extremities⁶

PROMIS-PF: Upper Extremities	PROMIS-PF: Lower Extremities
1. Ability to carry a laundry basket up a flight of stairs	1. Ability to go for a walk for at least 15 minutes
2. Ability to exercise for 1 hour	2. Ability to dress yourself (e.g., buttoning up clothes, tying shoelaces)
3. Ability to dress yourself (e.g., buttoning up clothes, tying shoelaces)	3. Ability to push open a heavy door
4. Ability to go outside of the home (e.g., to the shop)	4. Ability to carry a heavy object (>10 pounds/5 kg)
5. Ability to push open a heavy door	5. Ability to go up and down stairs at a normal pace
6. Ability to carry a heavy object (>10 pounds/5 kg)	6. Ability to carry a laundry basket up a flight of stairs
7. Ability to do heavy work around the house (e.g., scrubbing floors, moving furniture)	7. Ability to stand for 1 hour
8. Ability to do moderate work around the house (e.g., vacuuming, sweeping)	8. Ability to exercise for 1 hour
9. Ability to lift or carry groceries	9. Ability to go outside of the home (e.g., to the shop)
10. Ability to change a light bulb overhead	10. Ability to do heavy work around the house (e.g., scrubbing floors, moving furniture)
11. Ability to lift 10 pounds (5 kg) above your shoulder	11. Ability to do moderate work around the house (e.g., vacuuming, sweeping)
	12. Ability to lift or carry groceries
	13. Ability to bend, kneel, or stoop

REFERENCES

1. Stacchiotti S et al. Cancer Treat Rev 2023;112:102491
2. Splinterburg G et al. Expert Opin Ther Targets 2022;26:333-45
3. Bernthal NM et al. Orphanet J Rare Dis 2021;16:191
4. Stern S et al. Future Oncol 2025;21:1501-10

5. Niu X et al. Future Oncol 2026;22:507-14
6. Xu H et al. Lancet 2026;407:1072-83
7. Gelhorn HL et al. Clin Ther 2016;38:778-93

ACKNOWLEDGMENTS

Medical writing support, under the direction of the authors, was provided by Rebecca Mobley, PhD, of the Publications Division of Omnicom Health Medical Communications, funded by the Healthcare business of Merck KGaA, Darmstadt, Germany in accordance with Good Publication Practice (GPP 2022) guidelines. Abbisko Therapeutics designed and funded this study and collected and analyzed the primary data. In April 2025, the Healthcare business of Merck KGaA, Darmstadt, Germany (CrossRef Funder ID:10.13039/100009945) gained exclusive rights to commercialize pimecortinib worldwide.

AUTHOR DISCLOSURES

Vinod Ravi has received consulting fees and honoraria from EMD Serono, Paul Kamudoni, Andrea Phillips Beyer, and Niki Karachaliou are employees of the Healthcare business of Merck KGaA, Darmstadt, Germany and its affiliates. Qingping Zou is an employee of Abbisko Therapeutics. Amy Clark, Agkreta Leventi, Savita Bakhshi Anand, and Carla Dias-Barbosa are employees of PPD Evidera Patient-Centered Research, Thermo Fisher Scientific, which was paid by the Healthcare business of Merck KGaA, Darmstadt, Germany, to conduct the study. Hans Gelderblom was a site Principal Investigator for Abbisko Therapeutics (fees paid to institution).

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