

# Vibrance-1: Study Design and Methods for a Phase 2, Randomized, Placebo-Controlled, Parallel Group Study Evaluating the Safety and Efficacy of ALKS 2680 in Patients With Narcolepsy Type 1

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Poster No: 462

## INTRODUCTION

- ALKS 2680 is a highly potent, orally bioavailable, and selective orexin 2 receptor (OX2R) agonist being developed as a once-daily treatment for narcolepsy<sup>1</sup>
- Narcolepsy type 1 (NT1) results from the selective loss of neurons that produce orexin (also known as hypocretin), a neurotransmitter that acts as the master regulator of wakefulness systems in the brain<sup>2</sup>
- ALKS 2680 is designed to stimulate the OX2R and address the underlying pathology of narcolepsy by achieving the following key objectives:
  - To improve the duration and quality of wakefulness, with a pharmacokinetic and pharmacodynamic profile that mirrors the natural sleep-wake cycle, allowing patients to stay awake during the day and sleep at night
  - To control cataplexy
  - To have a low therapeutic dose that can be effective with once-daily oral administration
  - To have an acceptable safety profile with a wide therapeutic window that can accommodate different doses needed for NT1 and narcolepsy type 2
- In a phase 1b study, single doses of ALKS 2680 were generally well tolerated among patients with NT1 and led to statistically significant, clinically meaningful improvements in sleep latency and patient-reported alertness<sup>1,3</sup>
  - These results informed the range of doses to be assessed in the phase 2 Vibrance-1 study
  - The phase 1b study results are presented in Poster #423 at SLEEP 2024<sup>3</sup>

## OBJECTIVES

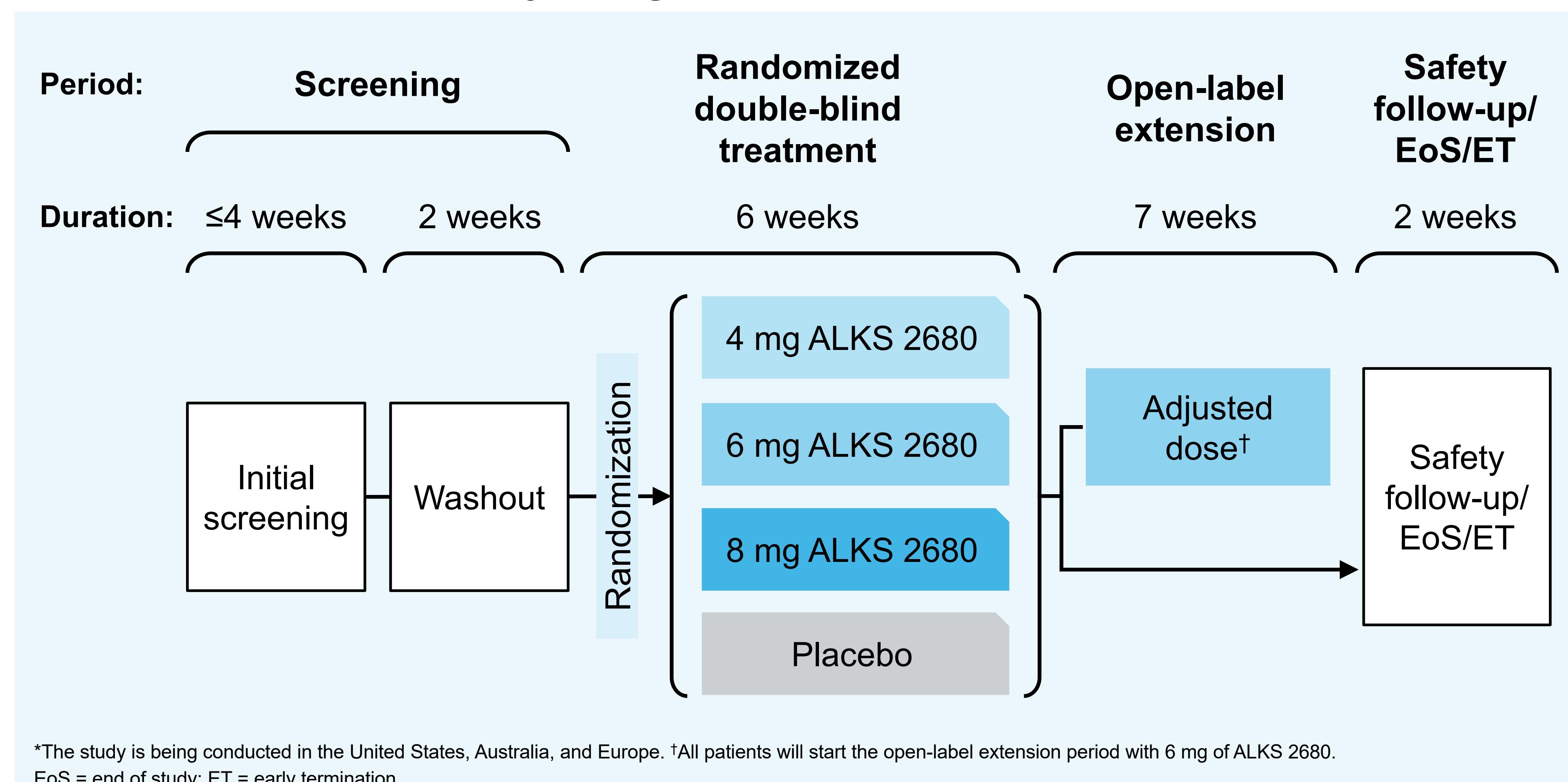
- The Vibrance-1 study (ClinicalTrials.gov identifier: NCT06358950) aims to assess the efficacy and safety of once-daily ALKS 2680 compared with placebo through 6 weeks of treatment in patients with NT1

## METHODS

### STUDY DESIGN

- Vibrance-1 is an ongoing, phase 2, placebo-controlled, parallel-group, dose-ranging study with a randomized double-blind treatment period and an open-label extension period (Figure 1)
- Following a 2-week washout period from prior narcolepsy medications, patients will be randomized 1:1:1:1 to receive placebo or ALKS 2680 once daily at doses of 4, 6, or 8 mg for 6 weeks
- The double-blind treatment period will be followed by an optional open-label extension period of up to 7 weeks

FIGURE 1: Vibrance-1 Study Design\*



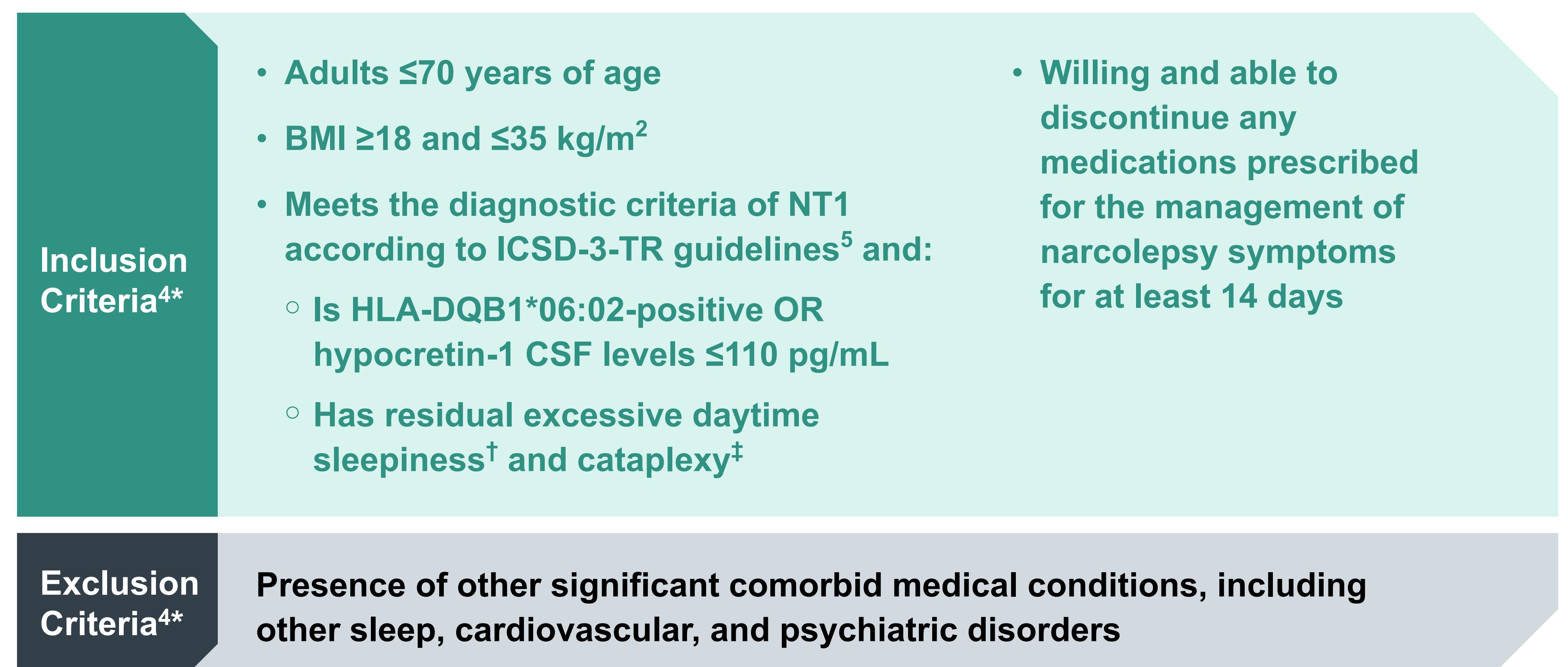
### References

- Yee B, et al. Presentation at World Sleep Congress 2023; October 20-25, 2023; Rio de Janeiro, Brazil.
- Bassetti CLA, et al. *Nat Rev Neurol*. 2019;15(9):519-539.
- Grunstein R, et al. Poster at SLEEP 2024 Meeting; June 1-5, 2024; Houston, TX.
- Alkermes, Inc. A Study to Evaluate the Safety and Effectiveness of ALKS 2680 in Subjects With Narcolepsy Type 1 (Vibrance-1). NCT06358950. Accessed April 30, 2024. <https://clinicaltrials.gov/study/NCT06358950>.
- Ruoff C, Rye D. *Curr Med Res Opin*. 2016;32(10):1611-1622.

### STUDY POPULATION

- Planned enrollment is approximately 80 patients with NT1
- Key inclusion and exclusion criteria are described in Figure 2

FIGURE 2: Key Inclusion and Exclusion Criteria

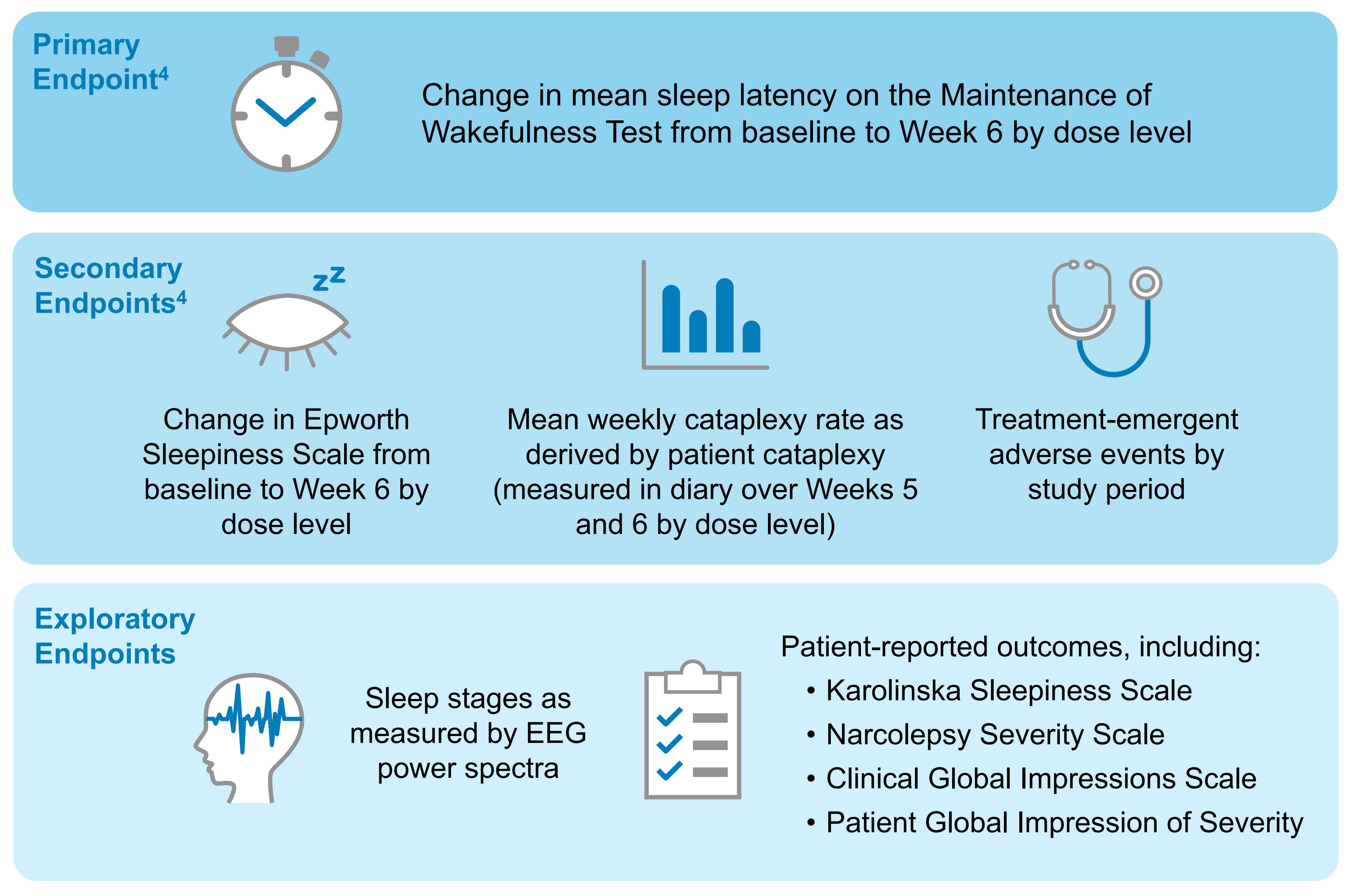


\*Additional criteria apply. Eligibility will be determined on an individual basis by the study investigator. <sup>†</sup>Epworth Sleepiness Scale score  $>$ 10 at Visit 1. <sup>‡</sup>Average of  $>$ 4 weekly cataplexy events during the last 2 weeks of the washout period.  
BMI = body mass index; CSF = cerebrospinal fluid; ICSD-3-TR = International Classification of Sleep Disorders – Third Edition, Text Revision; NT1 = narcolepsy type 1.

### STUDY ENDPOINTS

- Primary, secondary, and exploratory endpoints are summarized in Figure 3

FIGURE 3: Study Endpoints



## SUMMARY

- Vibrance-1 is evaluating once-daily ALKS 2680 over six weeks in patients with NT1, followed by open-label treatment
- To learn about participation or patient referrals, please visit [vibrancestudies.com](http://vibrancestudies.com) or [clinicaltrials.gov/study/NCT06358950](https://clinicaltrials.gov/study/NCT06358950)



Visit [vibrancestudies.com](http://vibrancestudies.com)

Visit Vibrance-1 at [ClinicalTrials.gov](https://clinicaltrials.gov/study/NCT06358950)

### Acknowledgments

The study was supported by Alkermes, Inc. Medical writing support was provided by Envision Pharma Group and was funded by Alkermes, Inc. This poster was developed in accordance with Good Publication Practice (GPP4) guidelines. Authors had full control of the content and made the final decision on all aspects of this poster.

### Disclosures

DTP received funding from Adium Bio, Alkermes, Harmony Biosciences, Jazz Pharmaceuticals, Takeda, and Teva Australia. RG received funding from Alkermes, Apinmed, Eisai, Eli Lilly & Company, SomnoMed, Takeda, and Vanda Pharmaceuticals. GP received funding from Bioprojet, Centessa Pharmaceuticals, Idorsia, Jazz Pharmaceuticals, Orexis Therapeutics, and Takeda. AMM received funding from Alkermes, Avadel, Geisinger Health Plan, Harmony Biosciences, Jazz Pharmaceuticals, NIH, and Takeda; and is the CEO of DAMM Good Sleep, LLC. JR, SL, SY, and BR are employees and stockholders of Alkermes.



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