

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

David Plante,<sup>1</sup> Ron Grunstein,<sup>2</sup> Giuseppe Plazzi,<sup>3</sup> Chad Ruoff,<sup>4</sup> Jandira Ramos,<sup>5</sup> Shifang Liu,<sup>5</sup> Sergey Yagoda,<sup>5</sup> Bhaskar Rege<sup>5</sup>

<sup>1</sup>University of Wisconsin School of Medicine and Public Health, UW Department of Psychiatry, Madison, WI, USA; <sup>2</sup>Woolcock Institute of Medical Research, Macquarie Park, Sydney, Australia; <sup>3</sup>IRCCS Istituto delle Scienze Neurologiche di Bologna, Bologna, Italy; <sup>4</sup>Mayo Clinic Hospital, Division of Pulmonary Medicine, Phoenix, AZ, USA; <sup>5</sup>Alkermes, Inc., Waltham, MA, USA

Poster No: 5071

## 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>
- Targeting the orexin (also known as hypocretin) system may address daytime sleepiness across hypersomnolence disorders with orexin deficiency (narcolepsy type 1 [NT1]) and without orexin deficiency (eg, narcolepsy type 2 [NT2] and idiopathic hypersomnia [IH])<sup>2</sup>
- In a phase 1b study, single doses of ALKS 2680 were generally well tolerated among patients with NT1<sup>3</sup> (1, 3, and 8 mg), NT2 (5, 12, and 25 mg), or IH (5, 12, and 25 mg), and led to statistically significant, clinically meaningful improvements in sleep latency and improved patient-reported alertness
  - Phase 1b results in patients with NT2 are presented in Poster P200
  - Phase 1b results in patients with IH are presented in Poster P5070
  - These results demonstrate that a potent OX2R agonist can be effective in patients with or without orexin deficiency
- Results from the phase 1b study of patients with NT2 informed the range of doses to be assessed in the phase 2 Vibrance-2 study

## OBJECTIVES

- The Vibrance-2 study (ClinicalTrials.gov identifier: NCT06555783) aims to assess the safety and efficacy of once-daily ALKS 2680 compared with placebo through 8 weeks of treatment in patients with NT2

## METHODS

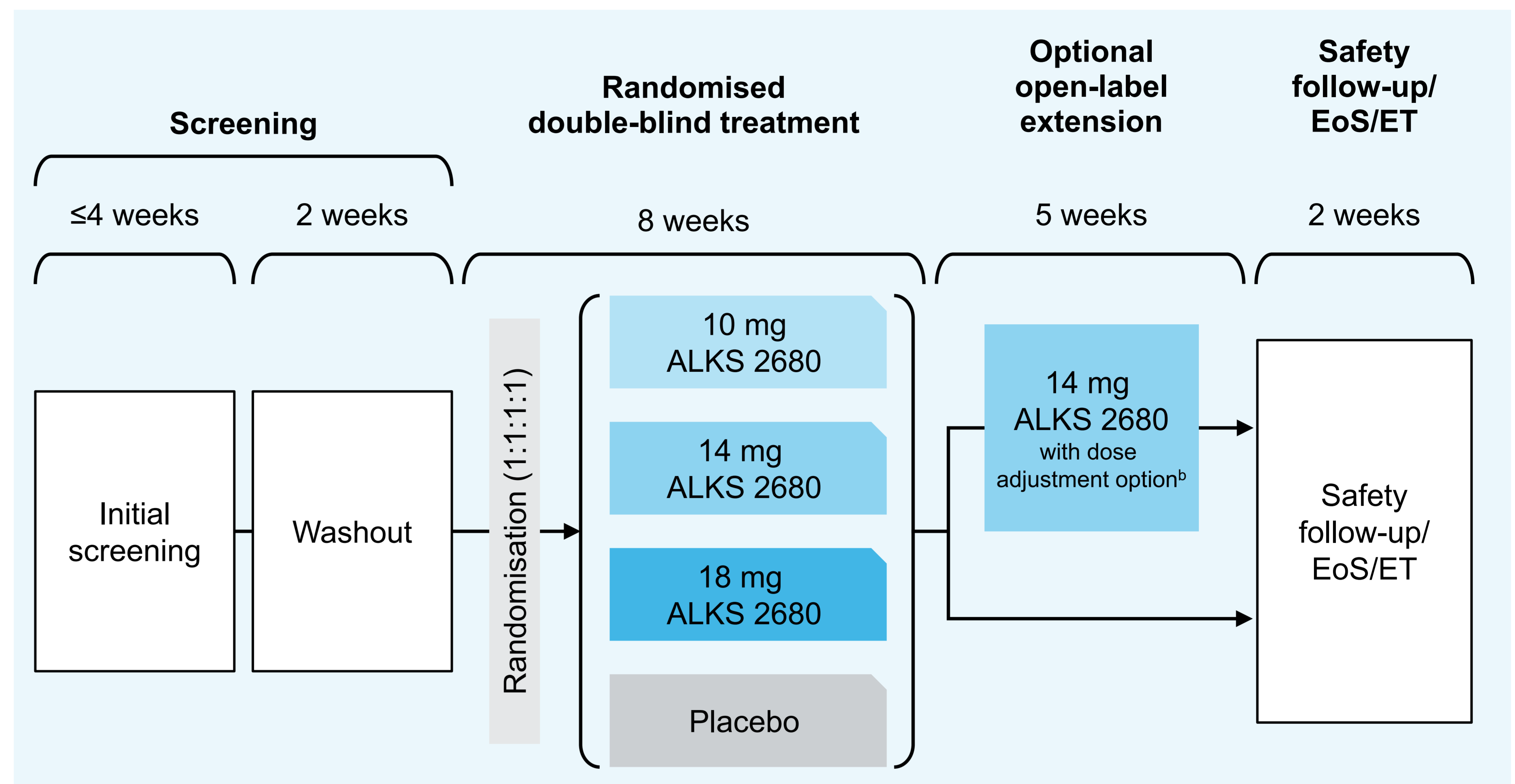
### STUDY DESIGN

- Vibrance-2 is an ongoing, phase 2, placebo-controlled, parallel-group, dose-ranging study with a randomised 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 10, 14, or 18 mg for 8 weeks
- The double-blind treatment period will be followed by an optional open-label extension period of 5 weeks

## SUMMARY

- ALKS 2680 is currently the only OX2R agonist in phase 2 clinical development for both narcolepsy subtypes
- Vibrance-2 is evaluating once-daily ALKS 2680 over 8 weeks in patients with NT2, followed by optional open-label treatment
- To learn about participation or patient referrals, please visit [vibrancestudies.com](https://vibrancestudies.com) or [clinicaltrials.gov/study/NCT06555783](https://clinicaltrials.gov/study/NCT06555783)

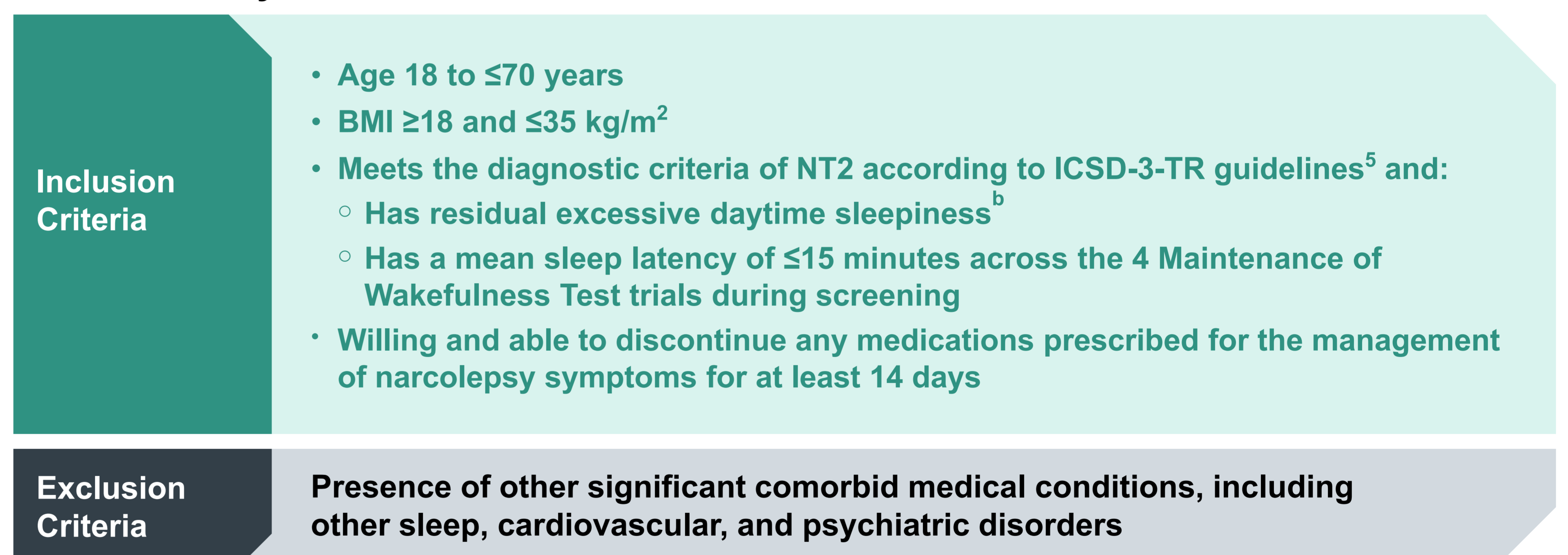
**FIGURE 1: Vibrance-2 Study Design<sup>a</sup>**



## STUDY POPULATION

- Planned enrolment is approximately 80 patients with NT2
- Key inclusion and exclusion criteria are described in **Figure 2**

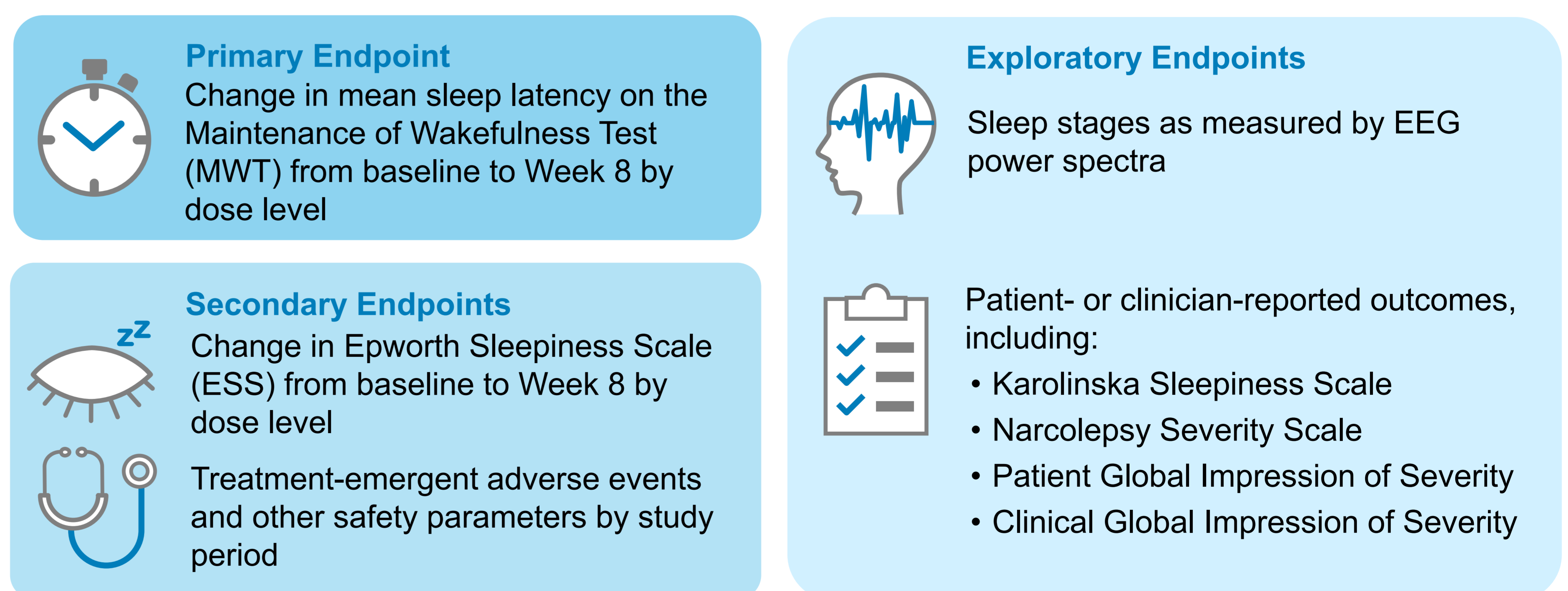
**FIGURE 2: Key Inclusion and Exclusion Criteria<sup>4a</sup>**



## STUDY ENDPOINTS

- Primary, secondary, and exploratory endpoints are summarised in **Figure 3**

**FIGURE 3: Study Endpoints<sup>4</sup>**



### References

1. Yee B, et al. Presentation at World Sleep Congress 2023, October 20-25, 2023, Rio de Janeiro, Brazil.
2. Barateau L, Dauvilliers Y. *Ther Adv Neurol Disord*. 2019;12:1756286419875622.
3. Grunstein R, et al. Poster at SLEEP 2024 Meeting, June 1-5, 2024, Houston, TX.
4. Alkermes, Inc. A phase 2, parallel-group, dose-range-finding study with randomized double-blind treatment and open-label periods to evaluate the safety and efficacy of ALKS 2680 in subjects with narcolepsy type 2 (Vibrance-2). NCT06555783. Accessed August 19, 2024. <https://clinicaltrials.gov/study/NCT06555783>.
5. Ruoff C, Rye D. *Curr Med Res Opin*. 2016;32(10):1611-1622.

### 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

DP received funding from Aditum Bio, Alkermes, Harmony Biosciences, Jazz Pharmaceuticals, Takeda, and Teva Australia. RG received funding from Alkermes, Apnimed, Eisai, Eli Lilly & Company, SomnoMed, Takeda, and Vanda Pharmaceuticals. GP received funding from Bioprojet, Centessa Pharmaceuticals, Idorsia, Jazz Pharmaceuticals, Orexia Therapeutics, and Takeda. CR received funding from Alkermes, Eisai, Harmony Biosciences, Jazz Pharmaceuticals, and Takeda. JR, SL, SY, and BR are employees and stockholders of Alkermes.

