# Real-World, Participant-Reported Effectiveness and Satisfaction with Low-Sodium Oxybate in Idiopathic Hypersomnia

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#### Introduction

- Low-sodium oxybate (LXB; Xywav®) is approved by the US Food and Drug Administration to treat idiopathic hypersomnia in adults and excessive daytime sleepiness (EDS) or cataplexy in patients aged ≥7 years with narcolepsy<sup>1-2</sup>
- Limited evidence exists on the real-world patient experience of individuals with idiopathic hypersomnia taking LXB
- The **C**linical effectiveness, treatment ad **H**erence, and treatment satisfaction in adults with Idiopathic hypersomnia and narcolepsy taking low-sodiuM oxybatE (CHIME) study evaluated real-world patient-reported outcomes, including clinical effectiveness, treatment adherence, and treatment satisfaction among adults with idiopathic hypersomnia or narcolepsy taking LXB
- Results for individuals with narcolepsy are reported separately in **Poster 535**

#### **Objective**

• To evaluate real-world patient-reported outcomes, including treatment effectiveness, adherence, and satisfaction among adults with idiopathic hypersomnia taking LXB

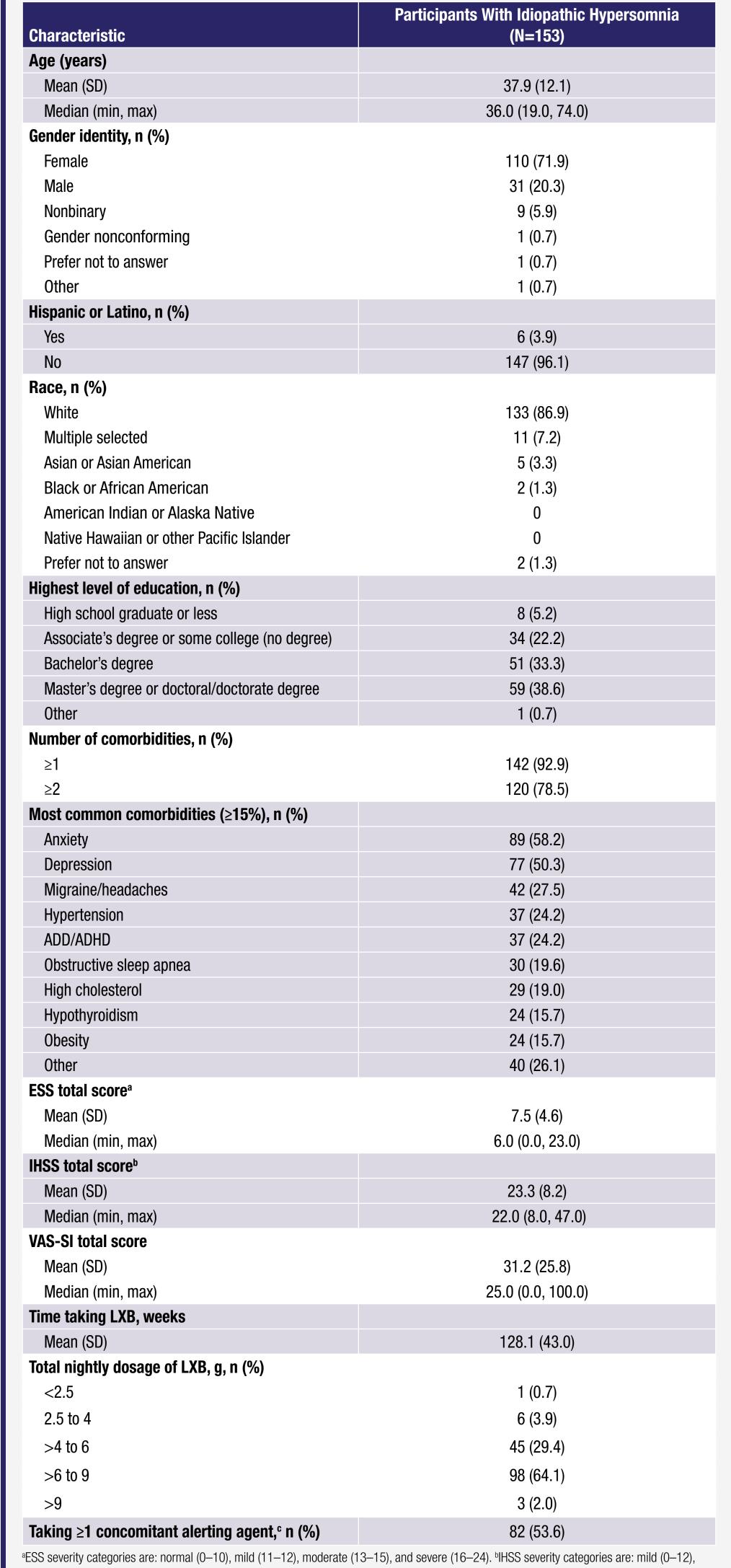
#### Methods

- A cross-sectional, web-based survey was administered to US adults with narcolepsy or idiopathic hypersomnia taking LXB from 08/26/2024 to 12/12/2024
- Participants had previously consented to outreach from the study sponsor with opportunities to participate in research
- Key inclusion criteria
  - US residents ≥18 years of age with a self-reported physician diagnosis of idiopathic hypersomnia
- Currently taking LXB for treatment of idiopathic hypersomnia
- Opted-in to receiving marketing/promotional communications from the study sponsor Key exclusion criteria
- Current diagnoses of both narcolepsy and idiopathic hypersomnia

Table 1. Self-Reported Demographics and Clinical Characteristics

- Cognitive difficulties or impairment that would make completing the survey challenging or
- prevent from completing the survey accurately
- Descriptive analyses were conducted on standardized patient-reported outcome measures (including the Epworth Sleepiness Scale [ESS; score range 0-24], Idiopathic Hypersomnia Severity Scale [IHSS; range 0-50], Visual Analog Scale-Sleep Inertia [VAS-SI; range 0-100], Patient Global Impression of Change [PGI-C]) and de novo questions to evaluate the experiences of individuals with idiopathic hypersomnia taking LXB

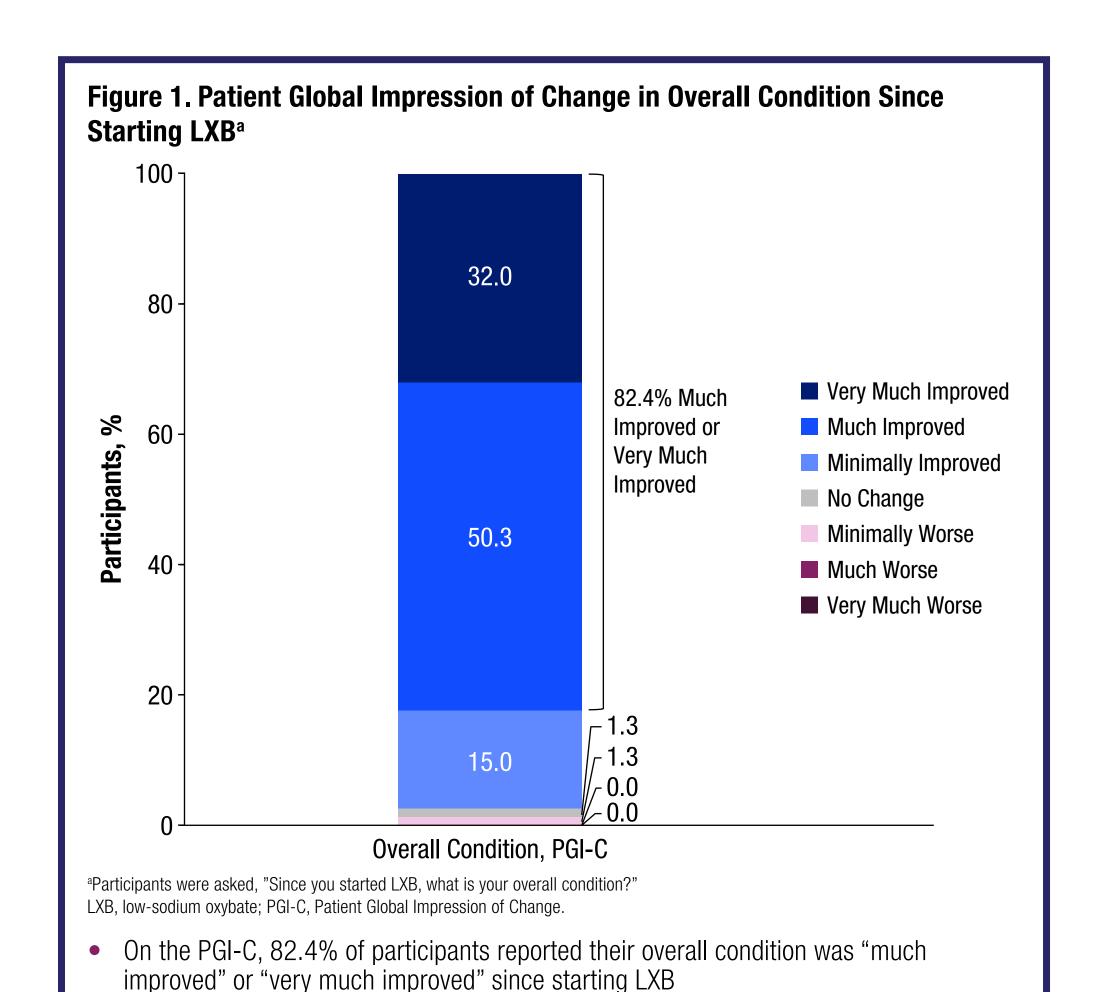
### Results

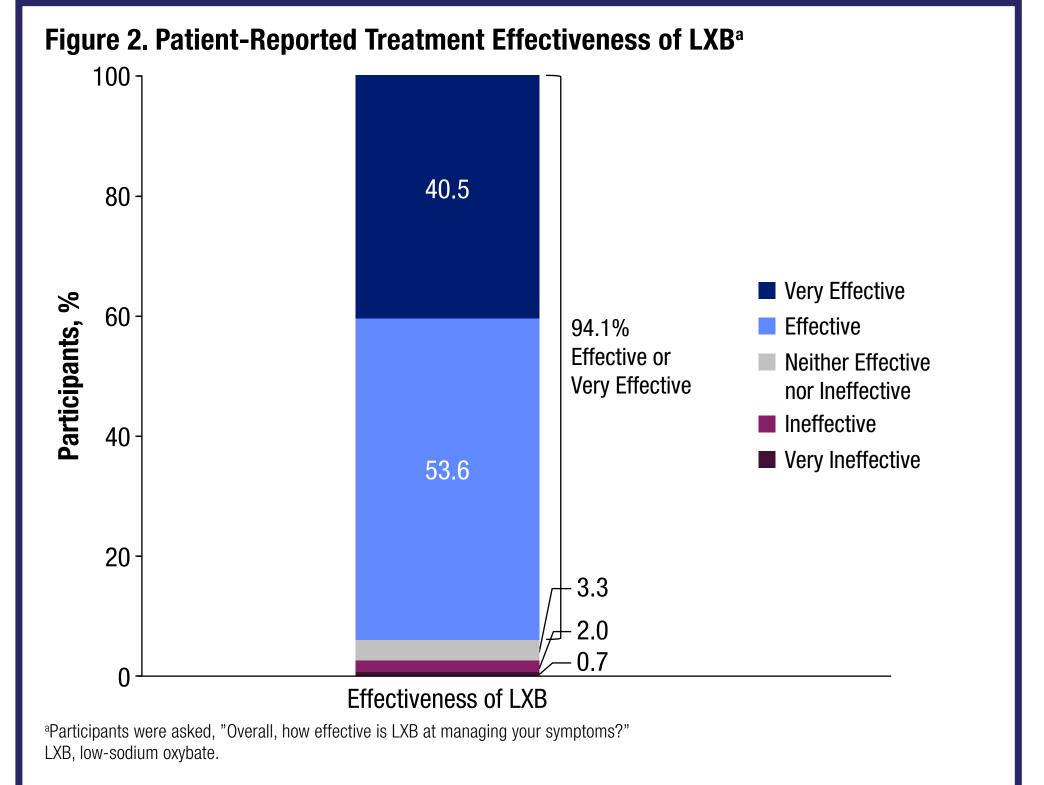


moderate (13–25), severe (26–38), and very severe (39–50). Alerting agents were defined as wakefulness-promoting agents (ie, armodafinil, modafinil, pitolisant, solriamfetol) or traditional stimulants (ie, amphetamines, methylphenidate) ADD, attention deficit disorder; ADHD, attention-deficit/hyperactivity disorder; ESS, Epworth Sleepiness Scale; IHSS, Idiopathic Hypersomnia

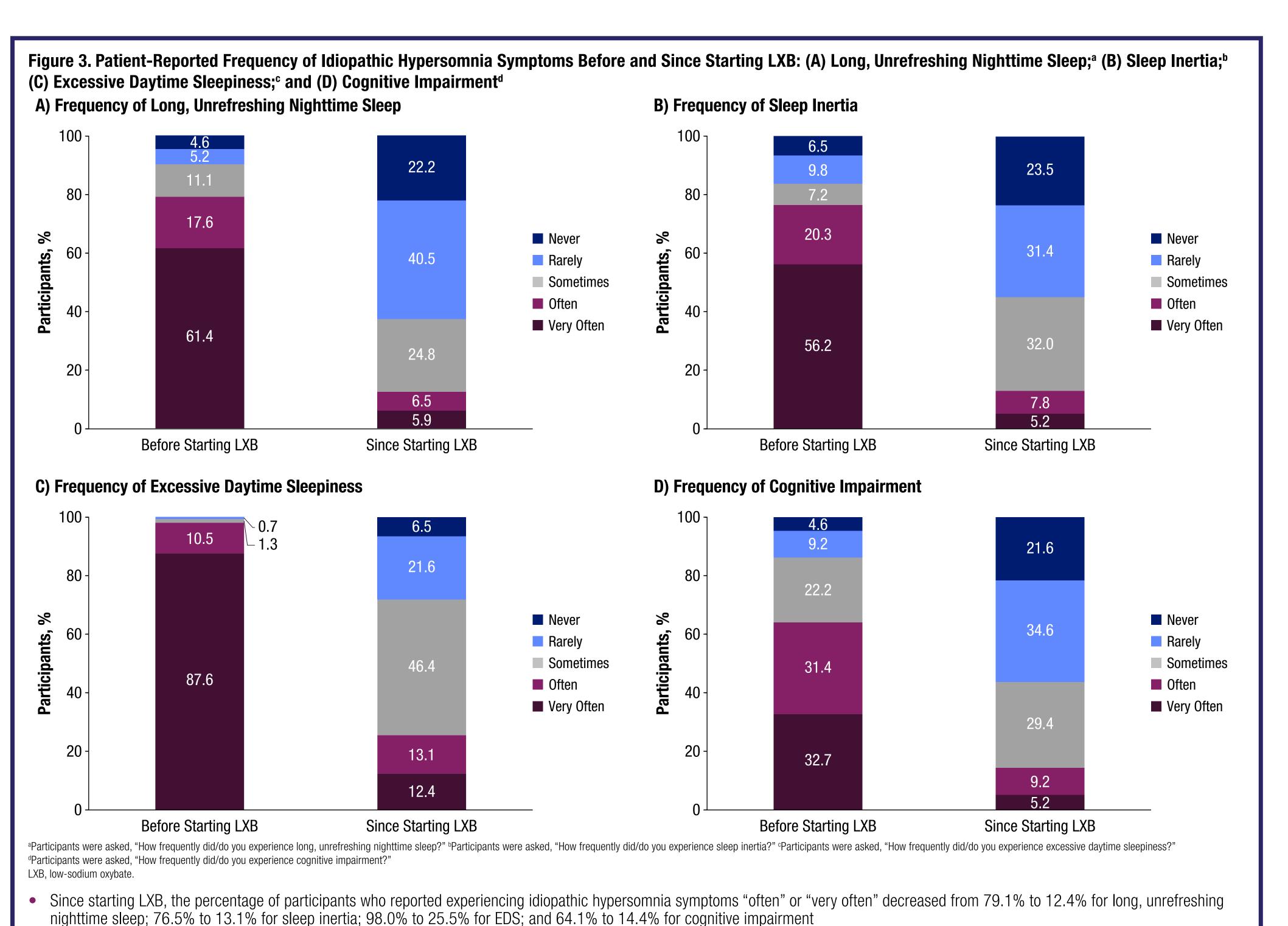
Severity Scale; LXB, low-sodium oxybate; max, maximum; min, minimum; SD, standard deviation; VAS-SI, Visual Analog Scale for Sleep Inertia.

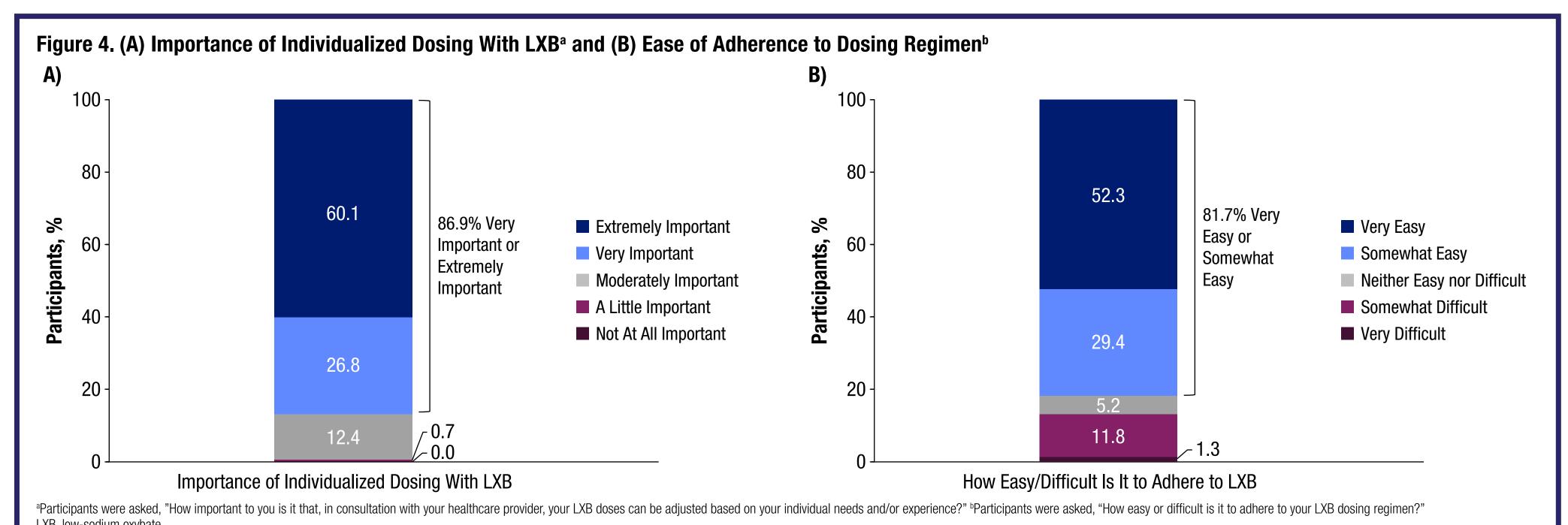
- Among the 153 participants with idiopathic hypersomnia, the mean (standard deviation [SD]) time taking LXB was 128.1 (43.0) weeks, or 2.4 (0.8) years, with 71.2% taking LXB for >2 years
- Most participants were female (71.9%) and White (86.9%); mean (SD) age was 37.9 (12.1) years





- Most participants (94.1%) reported LXB was "effective" or "very effective" at managing their idiopathic hypersomnia symptoms
- Since starting LXB, 56.2% of participants reported they stopped taking, reduced the dosage, or reduced the frequency of taking alerting agents (either a wakefulness-
- promoting agent or a traditional stimulant)

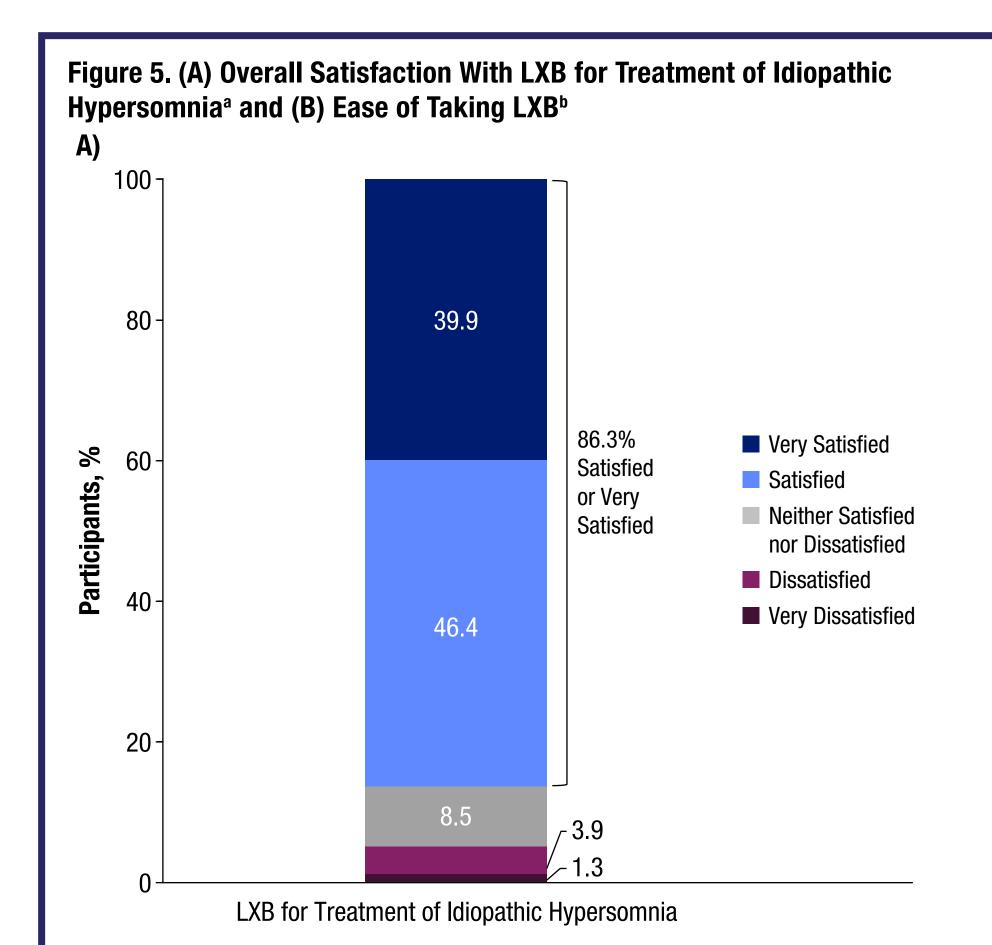


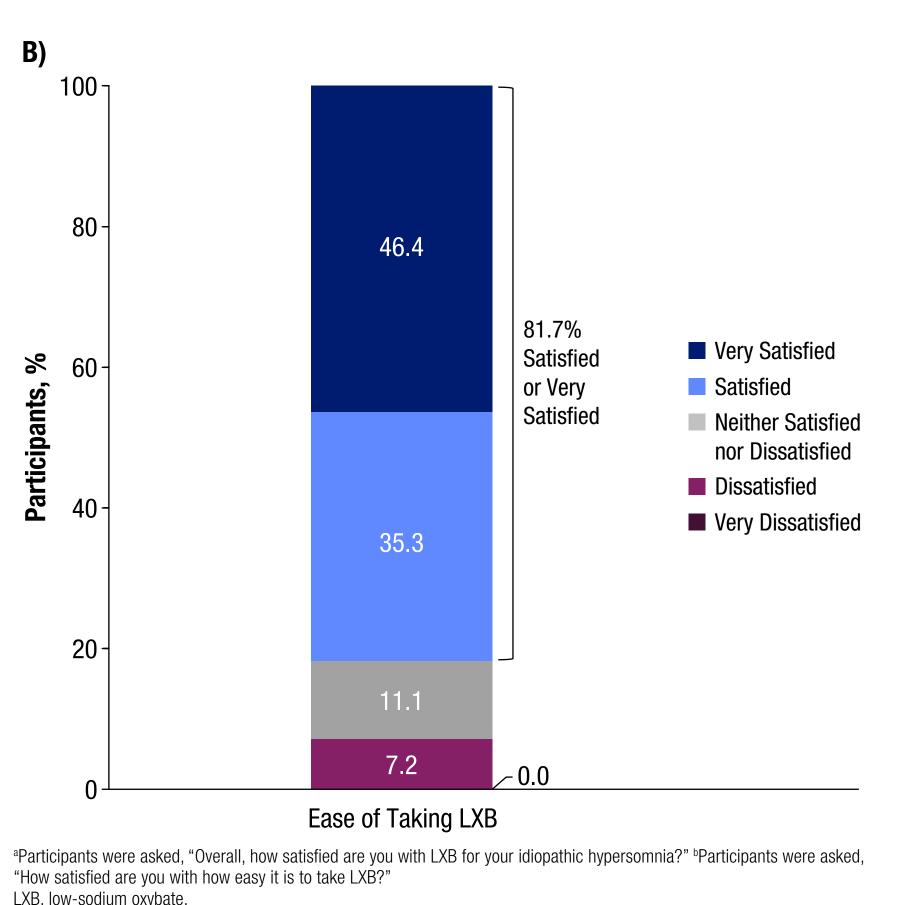


- 86.9% of participants reported that it was "very important" or "extremely important" that LXB dosing could be adjusted in consultation with their provider based on individual needs
- 81.7% of participants reported that it was "somewhat easy" or "very easy" to adhere to their LXB dosing regimen
- References: 1. Xywav® (calcium, magnesium, potassium, and sodium oxybates) oral solution, CIII [prescribing information]. Palo Alto, CA: Jazz Pharmaceuticals, Inc. 2. Szarfman A, et al. N Engl J Med. 1995;333(19):1291. 3. US Food and Drug Administration. Clinical review for Binosto, NDA 202344. 2012. Available at: https://www.accessdata.fda.gov/drugsatfda\_docs/nda/2012/2023440rig1s000MedR.pdf. 4. US Food and Drug Administration. Quantitative labeling of sodium, potassium, and phosphorus for human over-the-counter and prescription drug products. Guidance for industry. 2022. Available at: https://www.fda.gov/regulatory-information/search-fda-guidance-documents/guantitative-labeling-sodium-potassium-and-phosphorus-human-over-counter-and-prescription-drug.



Disclosures: J Yu is a consultant/contractor for Jazz Pharmaceuticals. C Drachenberg, SC Markt, JK Alexander, M Whalen, and S Beaty are full-time employees of Jazz Pharmaceuticals who, in the course of this employment, have received stock options exercisable for, and other stock awards of, ordinary shares of Jazz Pharmaceuticals, plc. **B Foster, J Tock,** and **E Hribal** are full-time employees of Lumanity, which has received consultant/contractor for Avadel, Axsome, Eli Lilly, Harmony Biosciences, and Jazz Pharmaceuticals.





- 86.3% of participants reported they were "satisfied" or "very satisfied" with LXB for treating their idiopathic hypersomnia
- 81.7% of participants reported that they were "satisfied" or "very satisfied" with how easy it was to take LXB

## Conclusions

- This analysis from CHIME, the largest real-world survey of LXB patients to date, suggests that participants taking LXB experienced improvement in nighttime and daytime symptoms of idiopathic hypersomnia, including long, unrefreshing nighttime sleep; sleep inertia; EDS; and cognitive impairment; and many stopped taking, reduced the dosage, or reduced the frequency of alerting agents for idiopathic hypersomnia after starting LXB
- According to the CHIME survey findings, the ability to individualize dosing with LXB was highly important, and the majority of participants reported satisfaction with the ease of taking LXB
- Limitations of this analysis include the cross-sectional design and the potential for selection bias limiting generalizability, as participants who are satisfied with LXB may be more likely to enroll in the study

