

Efficacy and Safety in People With Narcolepsy Transitioning From Sodium Oxybate to Lower-Sodium Oxybate: Data From the Real-World TENOR Study

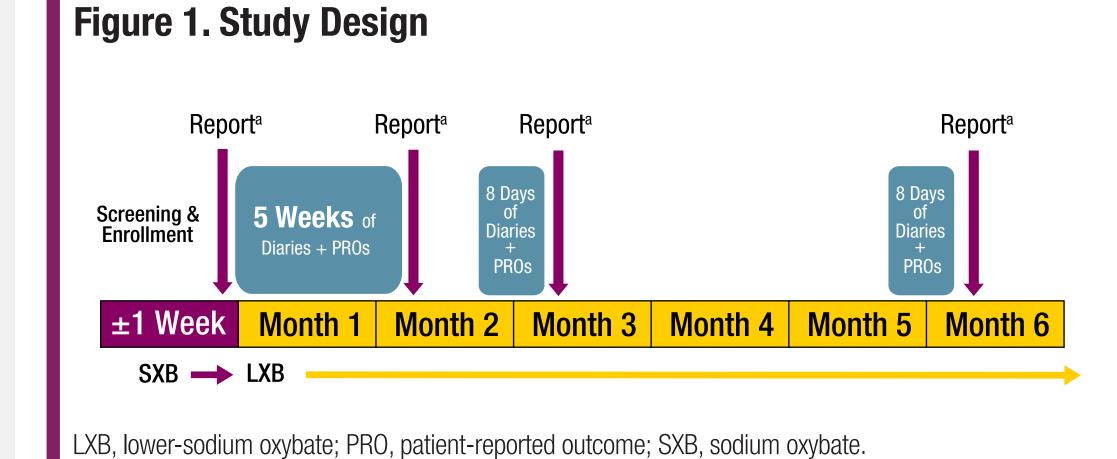
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Introduction

- Lower-sodium oxybate (LXB; Xywav[®]) is an oxybate medication, containing 92% less sodium than sodium oxybate (SXB; Xyrem[®]), that is approved by the US Food and Drug Administration (FDA) for treating cataplexy or excessive daytime sleepiness in patients with narcolepsy \geq 7 years of age and idiopathic hypersomnia in adults^{1,2}
- LXB has been recognized by the FDA in the narcolepsy population for its significant reduction in chronic sodium burden compared with SXB,



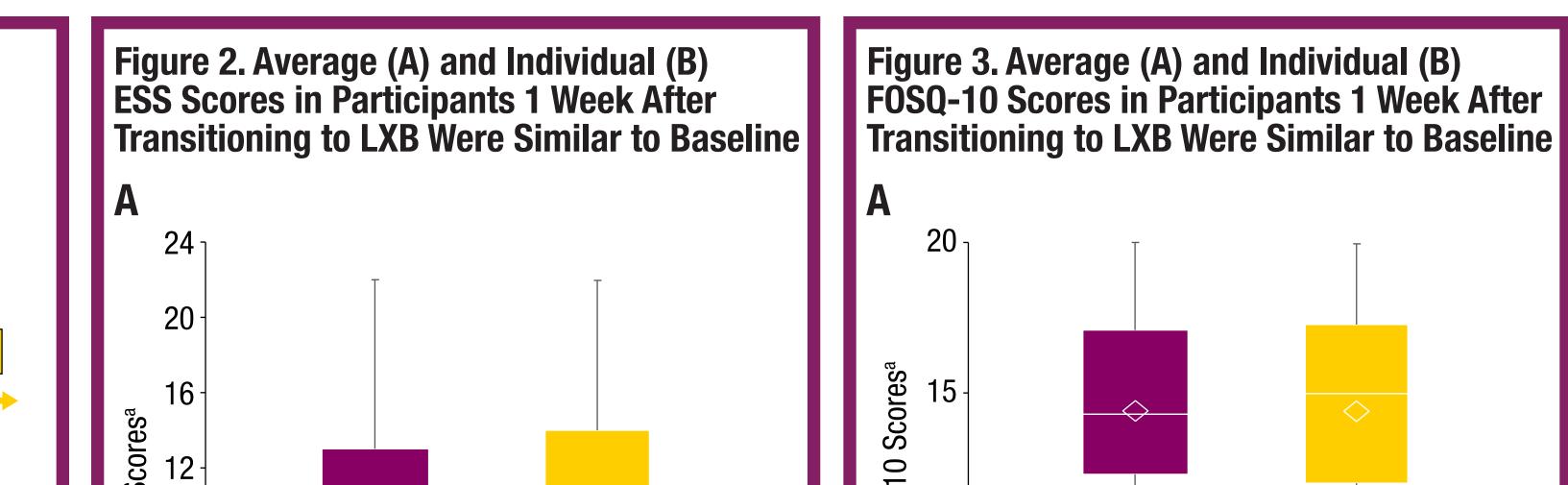
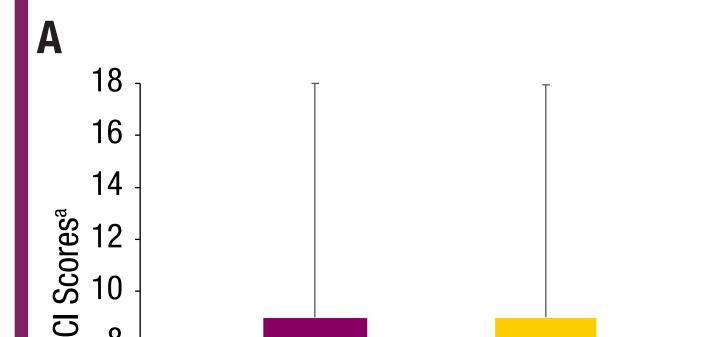


Figure 4. Average (A) and Individual (B) **BC-CCI Scores in Participants 1 Week After Transitioning to LXB Were Similar to Baseline**



which "will be clinically meaningful in reducing cardiovascular morbidity in a substantial proportion of patients for whom the drug is indicated"³

- When transitioning from SXB to LXB, the recommendation is to initiate LXB treatment at the same dose and regimen as SXB (gram-for-gram) and titrate based on efficacy and tolerability, if necessary¹
- Controlled clinical trial data have demonstrated successful transitions from SXB to LXB^{1,2}; however, real-world data are needed to inform expectations of the patient population and medical community regarding transitioning from SXB to LXB
- The Transition Experience of persons with Narcolepsy taking Oxybate in the Real-world (TENOR) study collected data from patients transitioning from SXB to LXB in a real-world setting

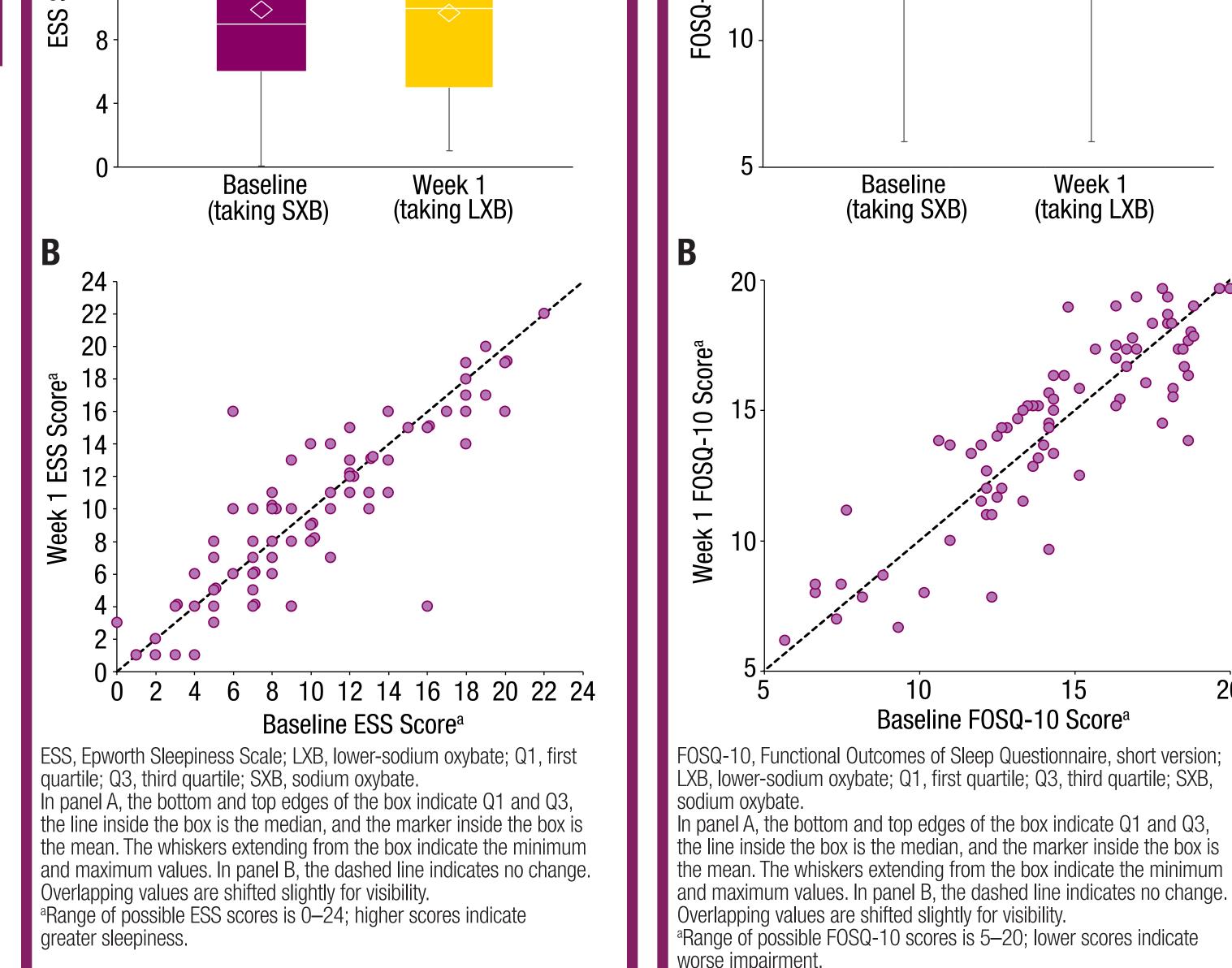
Objective

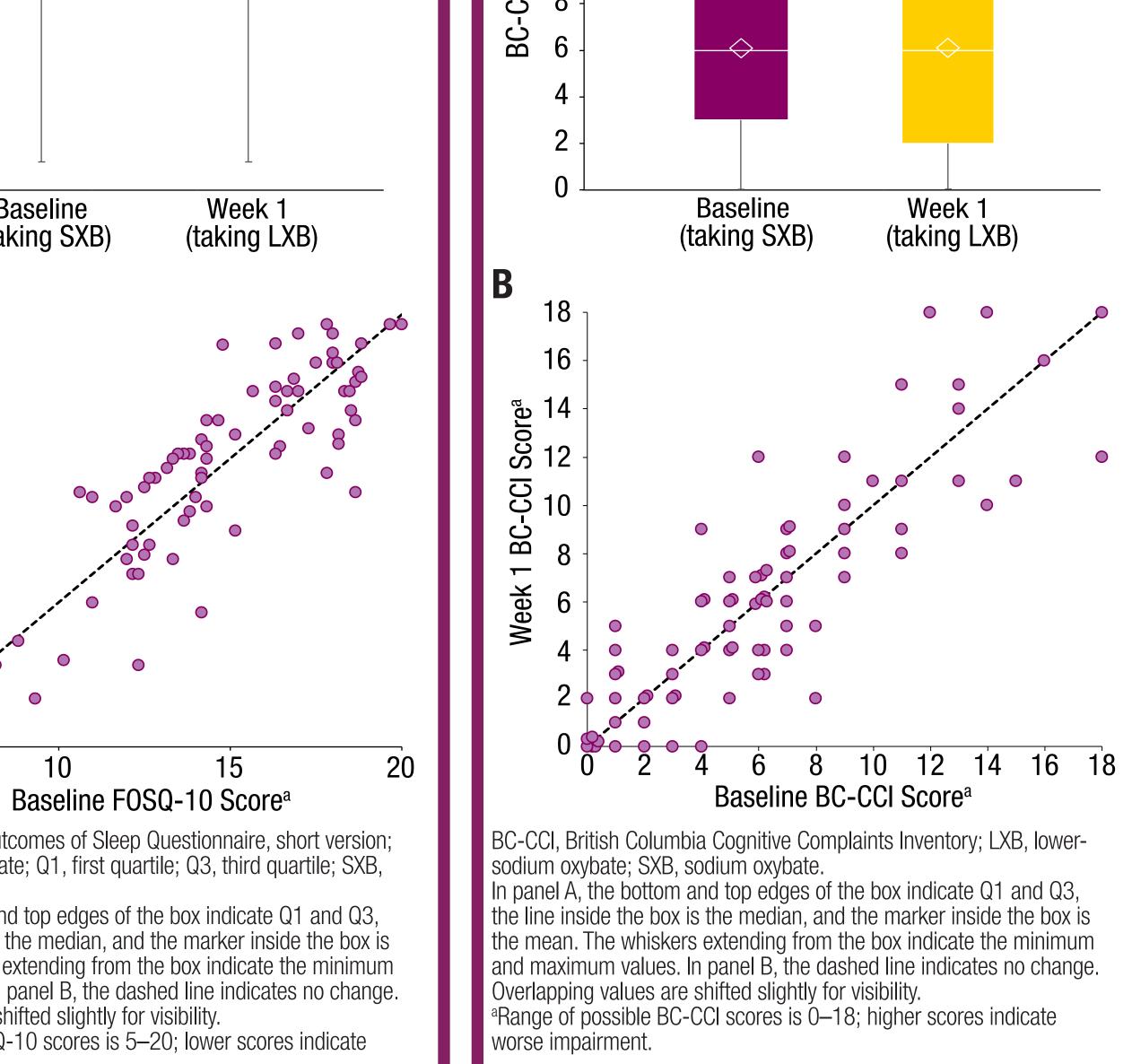
• This analysis evaluated measures of efficacy and safety in participants with narcolepsy who transitioned from SXB to LXB in TENOR

Methods

• TENOR was a patient-centric, prospective, observational, noninterventional, virtual-format study (NCT04803786) • Eligible participants included US adults with confirmed narcolepsy (type 1 or 2) transitioning from SXB to LXB within the previous or upcoming 7 days • Longitudinal data were collected for 21 weeks post-transition (including data collected at initiation of LXB treatment) via daily and weekly diaries and questionnaires completed by participants Efficacy measures (Epworth Sleepiness Scale [ESS]; Functional Outcomes of Sleep Questionnaire, Short Version [FOSQ-10]; and British Columbia Cognitive Complaint Inventory [BC-CCI]) were collected at baseline (taking SXB) and weekly beginning at week 1 (taking LXB)

Table 1 Particinant Demographics and	Baseline Characteristic		
Table 1. Participant Demographics and Baseline Characteris Total			
Characteristic	N=85		
Age, years, mean (SD)	40.3 (13.0)		
Female, n (%)	62 (72.9)		
BMI, kg/m ² , mean (SD)	28.0 (9.6)		
Ethnicity, n (%)			
Hispanic, Latino, or Spanish origin	5 (5.9)		
Not Hispanic, Latino, or Spanish origin	80 (94.1)		
Race, n (%) ^a			
American Indian or Alaska Native	3 (3.5)		
Asian	4 (4.7)		
Black or African American	6 (7.1)		
White	74 (87.1)		
Other	5 (5.9)		
Current employment status, n (%)ª			
Employed full time	46 (54.1)		
Employed part time	10 (11.8)		
Unemployed	7 (8.2)		
Student	13 (15.3)		
Homemaker	8 (9.4)		
Retired	8 (9.4)		
Geographic region, n (%)			
Midwest	19 (22.4)		
Northeast	15 (17.6)		
South	39 (45.9)		
West	12 (14.1)		
Comorbidities at study enrollment, n (%) ^a			
Depression	46 (54.1)		
Anxiety	39 (45.9)		
Obstructive sleep apnea	23 (27.1)		
Hypertension	20 (23.5)		
Other mental health conditions	11 (12.9)		
Cancer	5 (5.9)		
Diabetes	4 (4.7)		
Other cardiovascular disease	4 (4.7)		
Other	12 (14.1)		





- Participants were prospectively queried about changes in tolerability during the transition
- These analyses comprise an interim data cut (as of October 13, 2021) and include baseline data (taking SXB) from all enrolled participants and 1-week follow-up data (taking LXB) for those who had completed this timepoint
- Continuous variables were summarized with descriptive statistics (n, mean, standard deviation [SD], median, quartiles, minimum, and maximum); frequency counts and percentage of participants within each category were provided for categorical data
- narcolepsy type 2, n=40) at baseline and 79 participants (narcolepsy type 1, n=42; narcolepsy type 2, n=37) at week 1
- At baseline, most participants took ≥ 1 concomitant medication for narcolepsy (79%) in addition to SXB

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• Due to no adjustments for multiplicity, the *P* values presented are nominal

References: 1. XYWAV[®] (calcium, magnesium, potassium, and sodium oxybates) oral solution, CIII [prescribing information]. Palo Alto, CA: Jazz Pharmaceuticals. 2. Bogan RK, et al. Sleep. 2021;44:zsaa206. 3. Food and Drug Administration. Clinical superiority findings. 2021. Available at: https://www.fda.gov/industry/designating-orphan-productdrugs-and-biological-products/clinical-superiority-findings. **4.** XYREM[®] (sodium oxybate) oral solution, CIII [prescribing information]. Palo Alto, CA: Jazz Pharmaceuticals.

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Disclosures: EB Leary, DS Fuller, W Macfadden, and TL Steininger 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. P Zee serves on scientific advisory boards for Jazz Pharmaceuticals, Eisai, and Harmony Biosciences; is a consultant for CVS Caremark; and owns stock in Teva. **C Bae** participated in an advisory board and is a consultant for Jazz Pharmaceuticals. **AM Husain** has received consultancy fees and/or research funding from Jazz Pharmaceuticals, UCB, BlackThorn, Sage, Eisai, Marinus, and Neurelis, as well as royalties from Springer, Demos Medical, and Wolters Kluwer; and holds an editorship role with Wolters Kluwer.

Because participants could enroll up to 7 days after the transition from SXB to LXB, there was potential for recall bias when reporting baseline values (ie, when SXB was still being taken)

 Enrollment was generally balanced in terms of the number of participants who enrolled prior to (34.1%) or following (29.4%) the transition, with a plurality of participants (36.5%) enrolling on the day of transition

Long-term nausea	6 (7.1)	11 (13.9)	0.10
Vomiting	3 (3.6)	3 (3.8)	1.0
GERD, gastroesophageal reflux disease; LXB, lower-sodium oxybate; SXB, sodium oxybate.			

^a*P* values are nominal and were generated using McNemar's Chi-Square test for paired proportions (n=79).

• Tolerability symptoms reported with LXB treatment were consistent with the known safety profile of SXB⁴ • Fewer participants reported experiencing dizziness or excessive sweating 1 week after transitioning to LXB

Conclusions

• In the TENOR study, efficacy measures of excessive daytime sleepiness, quality of life, and cognition were similar from baseline (taking SXB) to 1 week after transitioning (taking LXB) in people with narcolepsy

- Tolerability symptoms were consistent with the known safety profile of SXB
- Longer-term assessments of efficacy and safety will be reported following study completion



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