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Efficacy and Safety in People Transitioning to Lower-Sodium Oxybate: Data From the Transition Experience of Patients With Narcolepsy Taking Oxybate in the Real-World (TENOR) Study

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Introduction

- Lower-sodium oxybate (LXB) is an oxybate medication, containing 92% less sodium than sodium oxybate (SXB), that is approved by the US Food and Drug Administration (FDA) for treating cataplexy or excessive daytime sleepiness in patients with narcolepsy ≥ 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, 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, virtualformat 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)
- 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
- Due to no adjustments for multiplicity, the *P* values presented are nominal

Figure 1. Study Design



LXB, lower-sodium oxybate; PRO, patient-reported outcome; SXB, sodium oxybate. ^aEach participant engagement report includes a different combination of personal, aggregate, and study-related data.

Results

	Total
aractoristic	10tai N-85
Je, years, mean (SD)	40.3 (13.0)
$\frac{2}{10}$	62 (72.9)
IVII, Kg/m², mean (SD)	28.0 (9.6)
INNICITY, N (%)	
Hispanic, Latino, or Spanish origin	5 (5.9)
Not Hispanic, Latino, or Spanish origin	80 (94.1)
ace, 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)
urrent 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)
eographic region, n (%)	
Midwest	19 (22.4)
Northeast	15 (17.6)
South	39 (45.9)
West	12 (14.1)
omorbidities 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)

BMI, body mass index; SD, standard deviation. ^aSelection of multiple categories was allowed; percentages may sum to greater than 100%.

- to SXB
- the day of transition

References: 1. XYWAV[®] (calcium, magnesium, and sodium oxybate) oral solution, CIII [prescribing information]. Palo Alto, CA: Jazz Pharmaceuticals. 2. Bogan RK, et al. Sleep. 2021;44:zsaa206. 3. US Food and Drug Administration. Clinical superiority-findings. 4. XYREM[®] (sodium oxybate) oral solution, CIII [prescribing information]. Palo Alto, CA: Jazz Pharmaceuticals. Support and Acknowledgments: This study was supported by Jazz Pharmaceuticals. Under the direction of the authors, Emily C. Bruggeman, PhD, of Peloton Advantage, LLC, an OPEN Health company, provided medical writing and editorial support for this poster, which was funded by Jazz Pharmaceuticals. Disclosures: EB Leary, DS Fuller, W Macfadden, and the course of Jazz Pharmaceuticals, bis a consultant for Jazz Pharmaceuticals, bis a consultant for Jazz Pharmaceuticals, bis 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.

 This analysis included 85 participants (narcolepsy type 1, n=45; 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

• 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





• At baseline (taking SXB) and week 1 (taking LXB), mean (SD) BC-CCI scores were 6.1 (4.4) and 6.1 (4.7), respectively (mean [SD] change: 0.0 [2.3])

Transitioning to I XB

6 (45.6) 1 (26.6) 1 (13.9) 0 (25.3) 0 (12.7) 8 (22.8) 0 (12.7)	0.85 0.008 0.01 0.83 0.20 0.67
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0 (12.7) 8 (22.8) 0 (12.7)	0.20 0.67
8 (22.8)	0.67
0 (12 7)	
	0.10
5 (19.0)	0.25
0 (12.7)	1.0
7 (8.9)	0.16
4 (5.1)	0.16
9 (11.4)	0.56
1 (13.9)	0.10
3 (3.8)	1.0
	afety profile of SXB ⁴
	1 (13.9) 3 (3.8) with the known sa

Table 2. Symptoms Related to Tolerability in Participants at Baseline and 1 Week After

rewer participants reported experiencing dizzmess of excessive sweating i 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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