Safety, Tolerability, and Durability of Treatment Effect of Olanzapine and Samidorphan: A Patient Subgroup Analysis of a 4-Year Open-Label Study

Jacob S. Ballon, MD, MPH,¹ Christina Arevalo, MS,² Martin Dunbar, PhD,² Alexandra Lovett, MD,² David McDonnell, MD,³ Christoph U. Correll, MD⁴⁻⁷

1Stanford University, Stanford, CA; 2Alkermes, Inc., Waltham, MA; 3Alkermes Pharma Ireland Ltd, Dublin, Ireland; 4The Zucker Hillside Hospital, Department of Psychiatry, Berlin, Germany; 7German Center for Mental Health (DZPG), partner site Berlin, Berlin, Germany

BACKGROUND

- A combination of olanzapine and samidorphan (OLZ/SAM) is approved in the US for the treatment of adults with schizophrenia or bipolar I disorder
- In a 4-year open-label study, OLZ/SAM treatment maintained symptom control and was associated with small changes in body weight and minimal changes in waist circumference in patients with schizophrenia, schizophreniform disorder, or BD-I

OBJECTIVE

 To analyze OLZ/SAM's safety, tolerability, and durability of treatment effect across subgroups in a 4-year open-label study of adults with schizophrenia, schizophreniform disorder, or BD-I

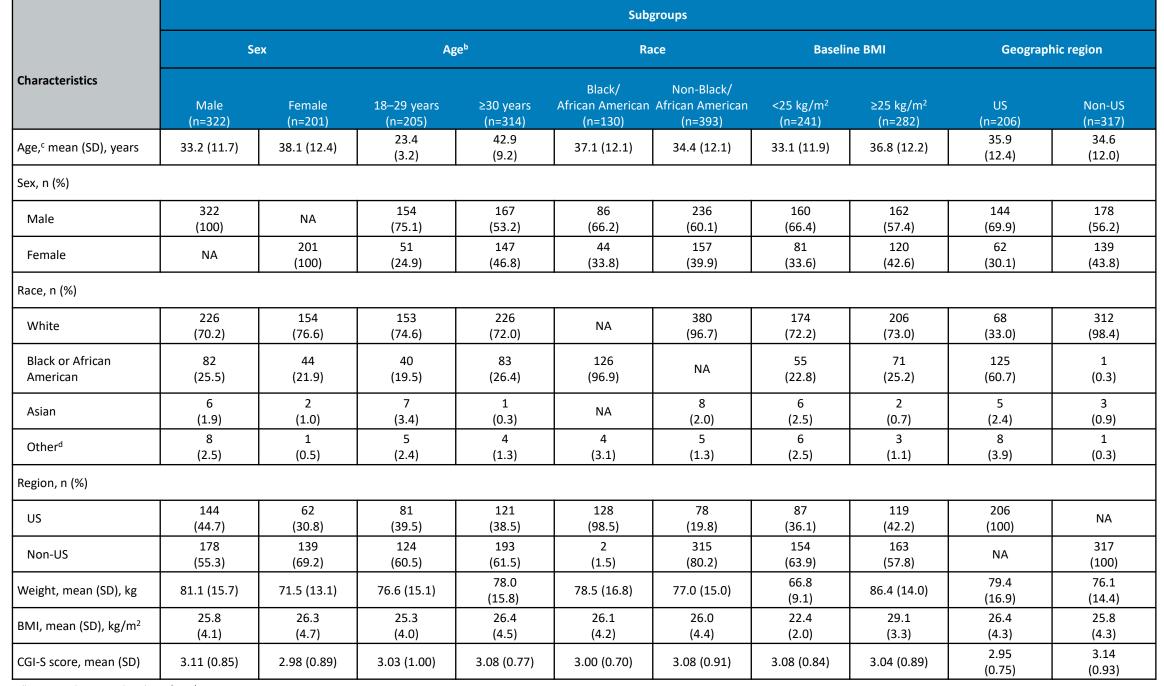
METHODS

- The study (NCT03201757) was a phase 3, 2- to 4-year, multicenter, open-label study assessing the safety, tolerability, and durability of treatment effect of OLZ/SAM
- Eligible patients enrolled ≤7 days after completing 1 of 3 antecedent studies in the ENLIGHTEN clinical trial program
- Patients could receive ≥2 and up to 4 years of additional OLZ/SAM treatment
- Prespecified subgroup analyses were conducted by age (18–29 or ≥30 years), sex (male or female), race (Black/African American or non-
- Black/African American), baseline body mass index (BMI; <25 or ≥25 kg/m²), and geographic region (US or non-US)
- Safety assessments included changes from baseline in body weight and waist circumference and incidences of adverse events (AEs)
- Durability of treatment effect was assessed with the Clinical Global Impression-Severity (CGI-S) scale

RESULTS

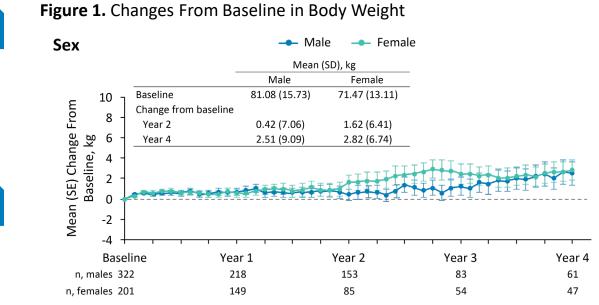
- Overall, 524 patients were enrolled and 523 received ≥1 dose of study drug (Table 1)
- Across subgroups, OLZ/SAM treatment was associated with small changes from baseline in body weight (Figure 1) and minimal changes in waist circumference (**Figure 2**) at 2 and 4 years
- Most AEs were mild or moderate in severity (**Table 2**); no clinically meaningful subgroup differences in AEs were observed
- Mean CGI-S scores remained stable across subgroups at 2 and 4 years (Figure 3)

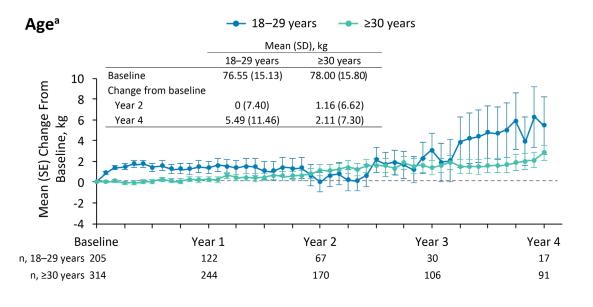
Table 1. Demographics and Baseline Clinical Characteristics^a

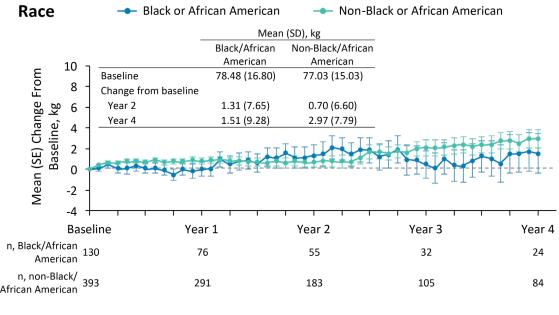


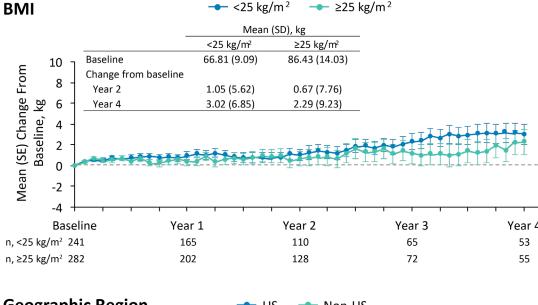
^aAll patients who received ≥1 dose of OLZ/SAM

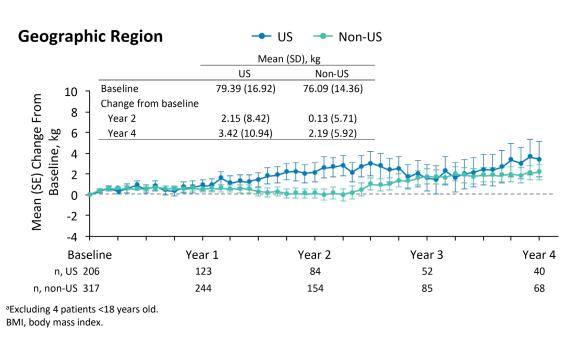
¹"Other" includes patients who were American Indian or Alaska Native individuals, those reporting multiple races, and those responding "other BMI, body mass index; CGI-S, Clinical Global Impression-Severity; NA, not applicable; OLZ/SAM, combination olanzapine and samidorphan.

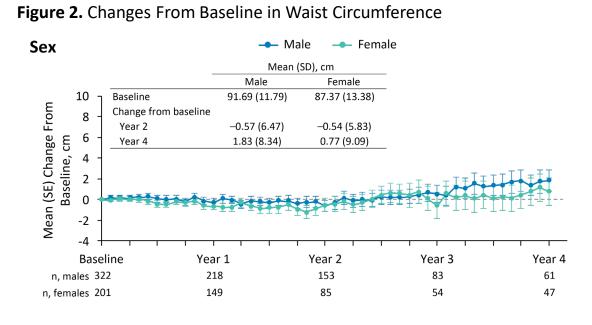


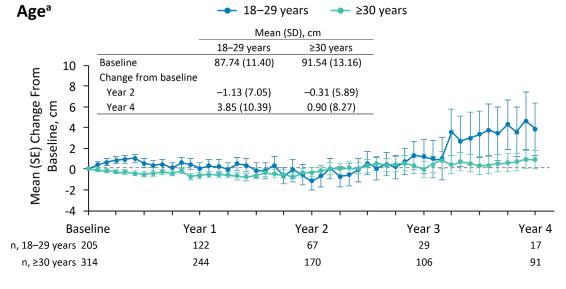


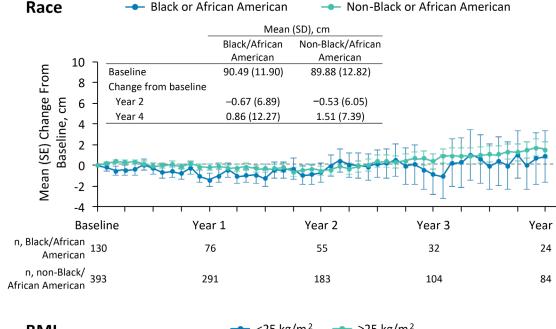


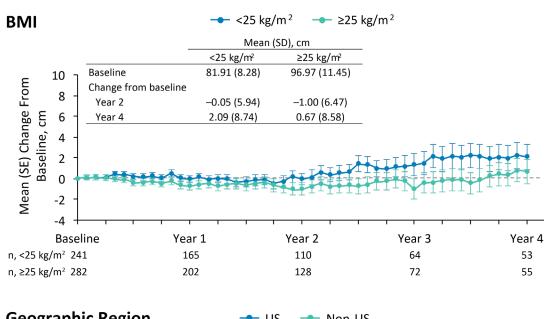


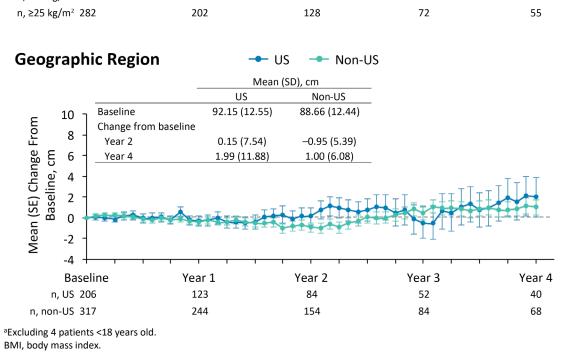


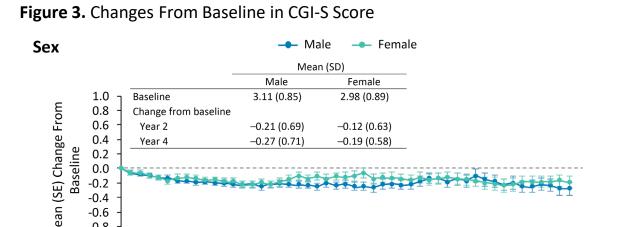




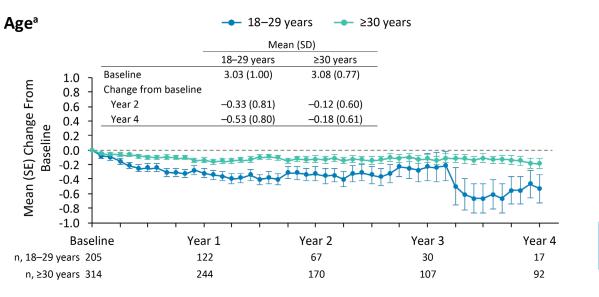


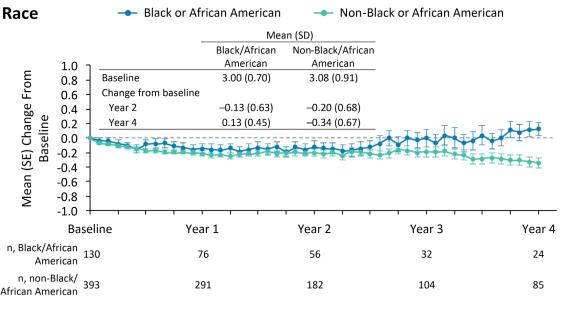


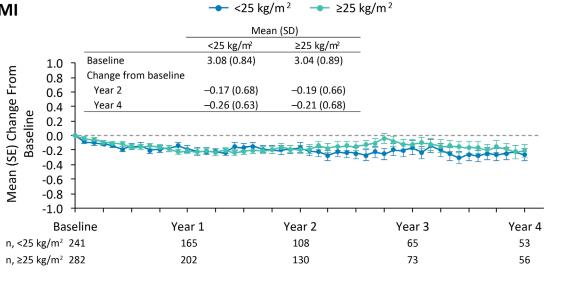




n, males 322







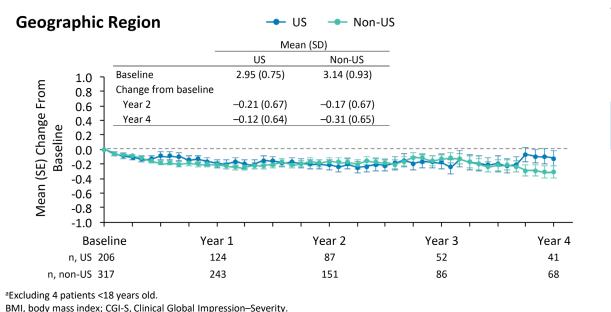


Table 2. Summary of Adverse Events

Category ^b	All Patients (N=523)
Any AE, n (%)	314 (60.0)
AEs by highest severity, n (%)	
Mild	143 (27.3)
Moderate	148 (28.3)
Severe	23 (4.4)
AEs leading to discontinuation	44 (8.4)
Any SAE	35 (6.7)
SAEs leading to death ^c	1 (0.2)
Most common AEs (≥5% of patients)	
Weight increased	51 (9.8)
Headache	37 (7.1)
Anxiety	32 (6.1)
Insomnia	31 (5.9)
Somnolence	31 (5.9)
Nausea	30 (5.7)
Weight decreased	30 (5.7)
All patients who received ≥1 dose of OLZ/SAM.	

^bPatients who experienced >1 AE in a category were counted only once in that category

^cOne SAE resulted in death during the study (completed suicide); the investigator assessed this event as not related to study treatment. AE, adverse event; OLZ/SAM, combination of olanzapine and samidorphan; SAE, serious adverse event.

LIMITATIONS

- The lack of a comparator arm may limit interpretation of safety and efficacy data
- Missing data due to patients who discontinued may have affected the results; patients with a less favorable outcome may have dropped out of the antecedent trial, creating potential selection bias
- The baseline characteristics of patients in this study may have varied due to differences in the inclusion and exclusion criteria of the 3 antecedent studies

CONCLUSIONS

- Outcomes after up to 4 years of additional OLZ/SAM treatment were generally similar across age, sex, race, BMI, and geographic subgroups
- The safety profile of OLZ/SAM across these subgroups was generally consistent with the previously published overall study results²

REFERENCES

1. Lybalvi [package insert]. Waltham, MA: Alkermes, Inc.; 2025. 2. Ballon JS, et al. J Clin Psychiatry. 2025;86(1):24m15511. DOI: 10.4088/JCP.24m15511

DISCLOSURES

JSB has been a consultant and/or advisor for Alkermes, Aluco BioSciences, Corcept, Indivior, Lundbeck, and Teva; has received grant support from Alkermes, Boehringer-Ingelheim, Bristol Meyers Squibb (Karuna Therapeutics), Corcept, Janssen, Neurocrine, Roche, and Teva; holds stock options from Aluco BioSciences; and has received royalties from American Psychiatric Association Publishing.

CA, **MD**, and **AL** are or were employees of Alkermes, Inc., and may own stock/options in the company.

DM is or was an employee of Alkermes Pharma Ireland, LTD, and may own stock/options in the company

CUC has been a consultant and/or advisor for or has received honoraria from AbbVie, Acadia, Alkermes, Allergan, Angelini, Aristo, Autobahn, Biogen, Boehringer-Ingelheim, Cardio Diagnostics, Cerevel, CNX Therapeutics, Compass Pathways, Darnitsa, Denovo, Gedeon Richter, Hikma, Holmusk, Intra-Cellular Therapies, Jamjoom Pharma, Janssen/Johnson & Johnson, Karuna, LB Pharma, Lundbeck, MedAvante-ProPhase, MedinCell, Merck, MindPax, Mitsubishi Tanabe Pharma, Mylan, Neurelis, Neurocrine NeuShen, Newron, Noven, Novo Nordisk, Otsuka, Pharmabrain, PPD Biotech, Recognify Life Science, Recordati, Relmada, Reviva, Rovi, Seqirus, Servier, SK Life Science, Sunovion, Sun Pharma, Supernus, Takeda, Teva, and Viatris; has provided expert testimony for Janssen and Otsuka; has served on a data safety monitoring board for Compass Pathways, Denovo, Intra-Cellular Therapies, Lundbeck, Relmada, Reviva, Rovi, Supernus, and Teva; has received grant support from Janssen and Takeda; has received royalties from UpToDate; and is a stock option holder of Cardio Diagnostics, Küleon Biosciences, LB Pharma, MedLink, MindPax, Quantic, and Terran.

ACKNOWLEDGMENTS

This study was funded by Alkermes, Inc., Waltham, MA, USA. Medical writing and editorial support were provided by Peloton Advantage, LLC, an OPEN Health company, and funded by Alkermes, Inc.

All authors made a significant contribution to the work reported, whether that is in the conception, study design, execution, acquisition of data, analysis and interpretation, or in all these areas; took part in drafting, revising, or critically reviewing the poster; gave final approval of the version to be presented; and agree to be accountable for all aspects of the work.

> Copies of this poster can be obtained through this QR (Quick Response) code. These materials are for personal use only and may not be reproduced without permission of Alkermes. For permission, contact USMedInfo



^cAge is based on data collected at the time of screening in the patient's initial randomized controlled trial.