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Pioneering Orexin science and catalyzing a potential new era of care for patients with narcolepsy type 1 (NT1) with oveporexton



1

Orexin deficiency is the root cause of NT1

2

Oveporexton is designed to treat the root cause of NT1 and has the potential to be a transformative Orexin therapy

3

Ph3 results demonstrated oveporexton's potential to achieve outcomes that matter most to patients

Oveporexton U.S. and global filings on track to start in FY25; global \$2-3B+ peak revenue potential

NT1 patients face debilitating daytime and nighttime symptoms often impacting daily function



Daytime Symptoms



Excessive Daytime Sleepiness (EDS)



Cataplexy

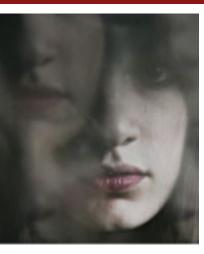


Cognitive Symptoms

Nighttime Symptoms



Disrupted Nighttime Sleep, Disturbing Dreams¹



Hallucinations, Sleep Paralysis

These symptoms may have significant impact on daily functions

Reduced Work Productivity Reduced
School
Performance

Challenged
Social
Interactions

Reduced
Personal
Responsibilities

Limited
Recreational
Activities

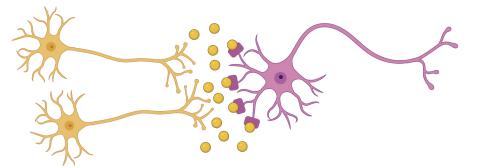
NT1 pathophysiology is caused by the loss of orexin neurons



Downstream signaling

Healthy Individual:

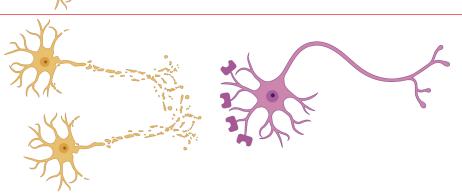
Healthy orexin neurons with normal postsynaptic downstream orexin neurotransmitter activity





Patient with NT1:

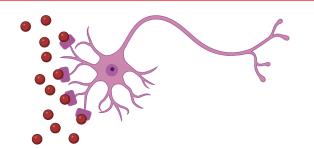
Reduced availability of orexin as orexin neurons are lost, reducing downstream neurotransmitter activity





NT1 patient treated with oveporexton:

Orexin 2 receptor (OX2R) agonist may **restore downstream neurotransmitter activity** lost when endogenous orexin levels decline











Optimized dosing regimen critical to deliver potentially transformative efficacy while minimizing adverse events

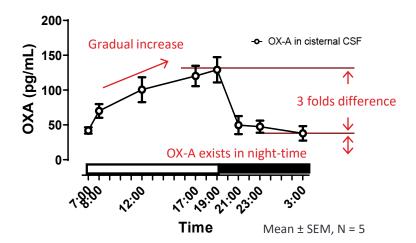


Oveporexton BID profile mimics natural diurnal orexin tone



Diurnal fluctuation of orexin levels in monkey CSF

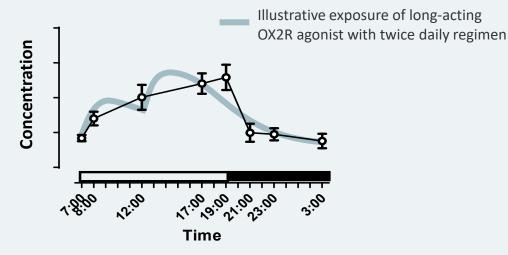
Takeda's novel method enabling accurate measurement of OX-A¹



- OX-A gradually increases in day-time but still present during nighttime
- Reliable model to predict human PK based on Takeda OX2R experience



Long-acting orexin 2 receptor (OX2R) agonist



- Long-acting OX2R agonist with BID dosing mimics diurnal orexin fluctuation
- Long half-life maintains sufficient exposure during the day
- Exposure levels are reduced at night, mimicking the natural orexin tone

Comprehensive approach to evaluate broad spectrum of NT1 symptoms with established and novel endpoints

Daytime Symptoms



Excessive Daytime Sleepiness (EDS)

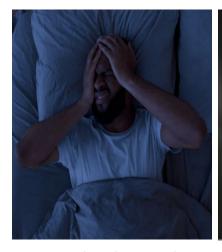


Cataplexy

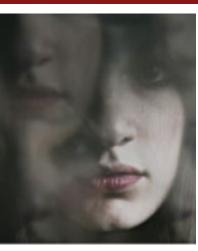


Cognitive Symptoms

Nighttime Symptoms



Disrupted Nighttime Sleep, Disturbing Dreams



Hallucinations, Sleep Paralysis

MWT, ESS, KSS

WCR

PVT and other tests

Sleep Diary, PSG

Overall Narcolepsy Symptoms and Daily Function (e.g. NSS-CT, CGI-C, PGI-C, FINI)

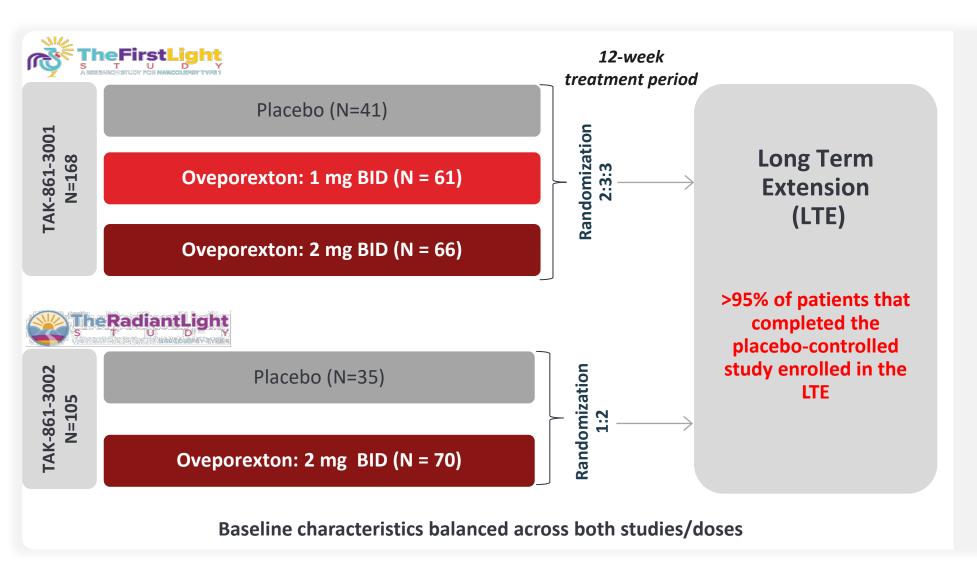
General Quality of Life and Treatment Satisfaction (e.g. SF-36, EQ-5D-5L)



Oveporexton Phase 3 Results

Global placebo controlled randomized Oveporexton Ph3 NT1 studies conducted across 19 countries enrolling 273 subjects





Primary Endpoint @ 12wks:

MWT

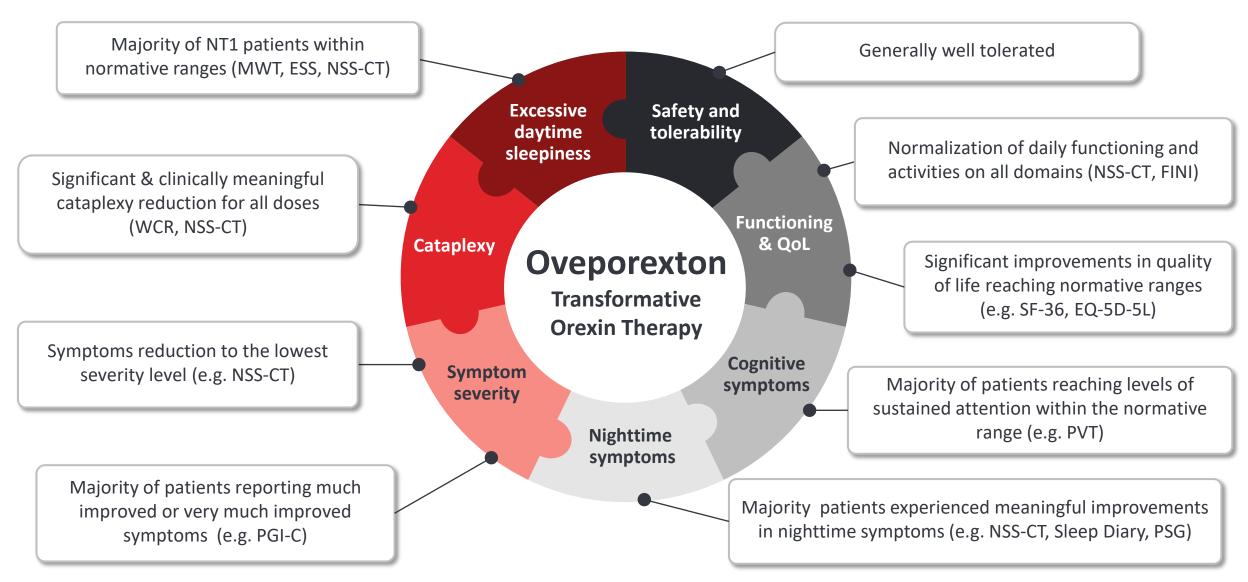
Secondary Endpoints @ 12wks including:

- ESS
- WCR
- NSS-CT
- PVT
- Safety/Tolerability

Exploratory Endpoints

Oveporexton could establish a new standard of care in NT1 addressing the broad spectrum of symptoms

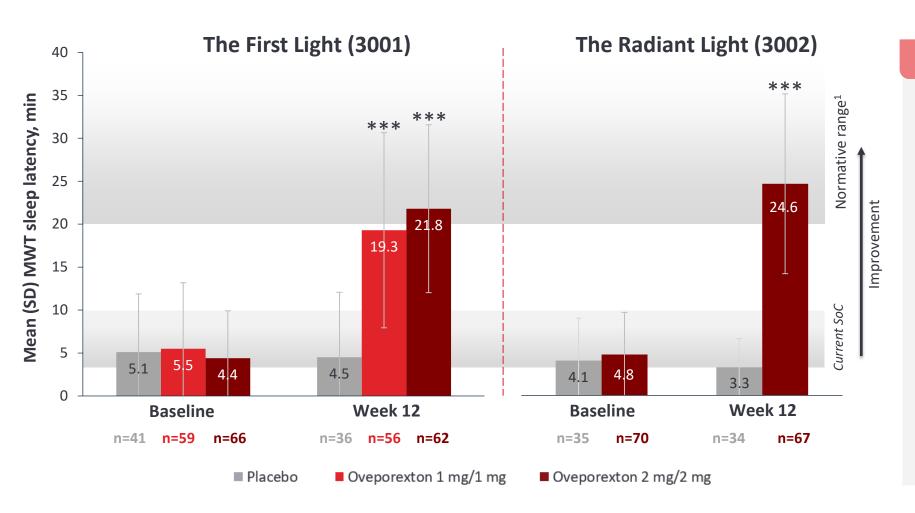




Oveporexton significantly improved sleep latency on MWT at 12 weeks with majority of patients within normative range



The Maintenance of Wakefulness Test (MWT): daytime polysomnographic procedure which quantifies wake tendency by measuring ability to remain awake during soporific circumstances (sleepiness condition such as dark quiet room)



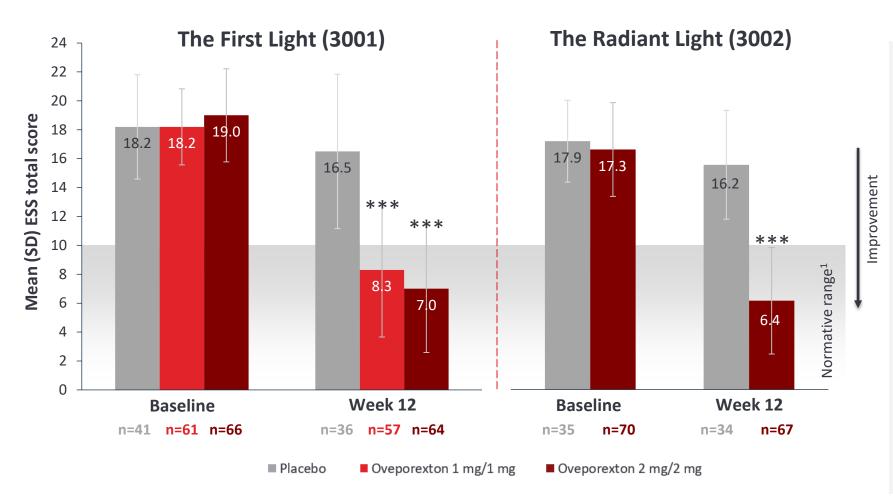
Excessive Daytime Sleepiness (MWT)

- Statistically significant and clinically meaningful improvement in objective wakefulness (MWT)
- Oveporexton normalized (≥20 mins) sleep latency on MWT in majority of patients (63% of Ph3 patients treated with 2 mg/2 mg)
- Consistent results between Ph2b and two Ph3 studies
- Efficacy maintained over time based on ongoing LTE data from Ph2b

Oveporexton significantly improved subjective sleepiness at 12 weeks with majority of patients within normative range



The Epworth Sleepiness Scale (ESS): short self-assessment to identify how likely to fall asleep during daytime, measured by eight questions. Total score range 0-24 (each question 0-3). Scores ≤10 reflect normal levels of daytime sleepiness, and scores over 10 reflect excessive daytime sleepiness



Excessive Daytime Sleepiness (ESS)

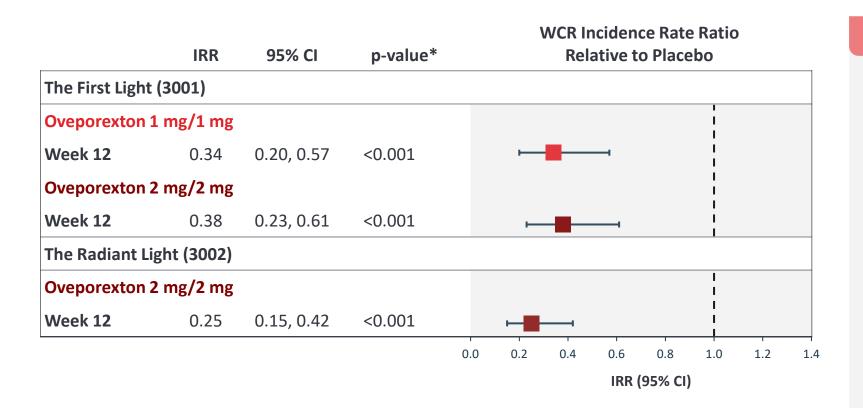
- Oveporexton demonstrated statistically significant and clinically meaningful improvement in subjective wakefulness (ESS)
- Close to 85% of patients achieved ESS scores comparable to healthy individuals (≤10) with oveporexton 2 mg/2 mg
- Consistent between Ph2b and Ph3 studies, and other endpoints (e.g. KSS)
- Efficacy maintained over time based on ongoing LTE data from Ph2b

Oveporexton significantly reduced weekly cataplexy rate over 12 weeks



Cataplexy: sudden loss of muscle tone and strength, often caused by an emotional stimulus; defining symptom of NT1

Incidence Rate Ratio (IRR): incidence rate for the treatment arms over the placebo incidence rate (lower IRR indicates a greater improvement from placebo)



Weekly Cataplexy Rate (WCR)

- Oveporexton demonstrated statistically significant (p<0.001) and clinically meaningful reduction in cataplexy events compared to placebo
- Median cataplexy free days/week increased from 0 days at baseline to 4-5 days at week 12 with oveporexton vs no increase with placebo

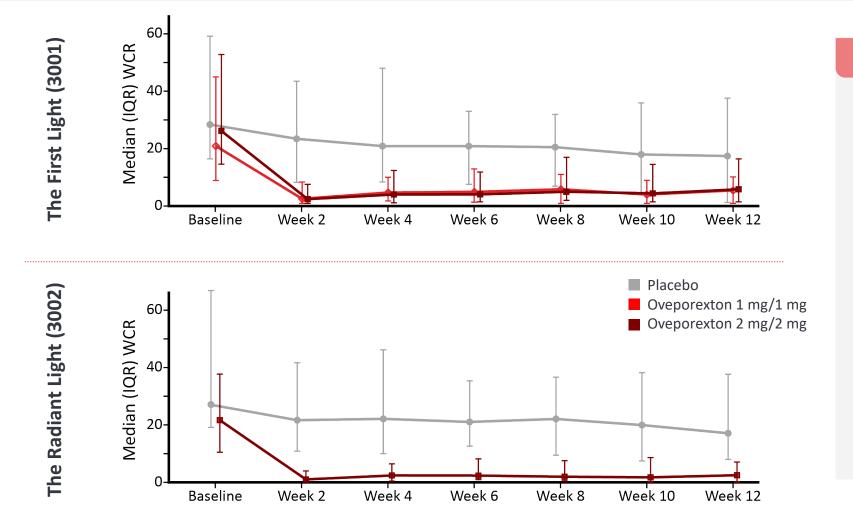
^{*}The analysis used a generalized estimating equations model (negative binomial) with placebo-based multiple imputation. P-values have been adjusted for multiplicity.

The incidence rate ratio was calculated by dividing the incidence rate of the oveporexton group with the incidence of the placebo group. CI, confidence interval; WCR, weekly cataplexy rate.

Oveporexton demonstrated rapid reduction in cataplexy, sustained over 12 weeks



Weekly Cataplexy Rate (WCR): number of cataplexy events per week



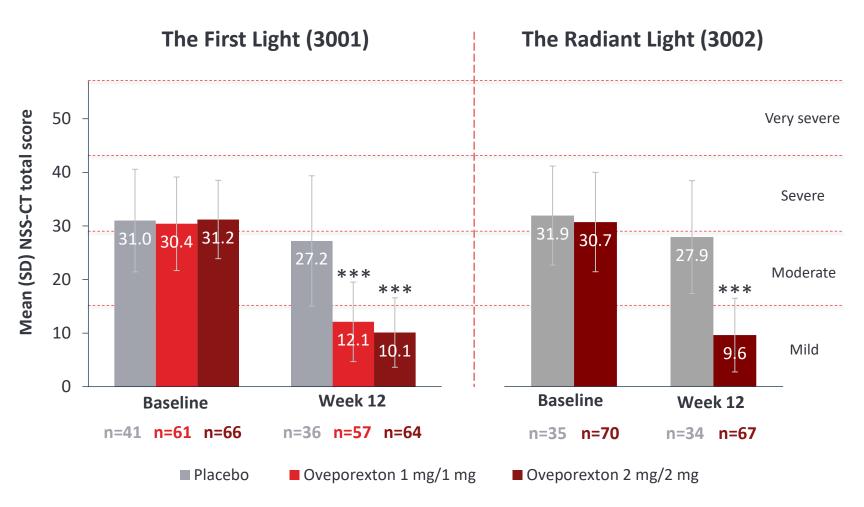
Weekly Cataplexy Rate (WCR)

- Reduction in median WCR from baseline sustained over the entire duration of the study
 - 79% 1 mg/1 mg (The First Light)
 - 83% 2 mg/2 mg (The First Light)
 - 89% 2 mg/2 mg (The Radiant Light)
- Efficacy maintained over time based on ongoing LTE data from Ph2b

Oveporexton improved symptoms across NT1 spectrum and reduced the overall symptom severity



Narcolepsy Severity Scale for Clinical Trials (NSS-CT): validated, self-administered, 15-item scale evaluating severity, frequency and impact of 5 narcolepsy symptoms (sleepiness, cataplexy, sleep paralysis, hallucinations and disrupted nocturnal sleep)



Overall Disease Severity

- Oveporexton demonstrated statistically significant (p<0.001) and clinically meaningful reduction in overall disease severity compared to placebo
- Across both studies, 70-80% of patients treated with oveporexton had mild symptoms at week 12

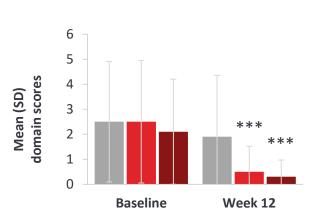
Oveporexton improved nighttime symptoms at week 12

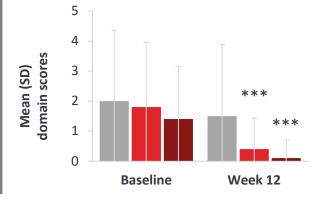


Hallucinations How frequently do you have hallucinations when falling asleep or waking up? (score 0-6)

Sleep paralysis How frequently do you experience sleep paralysis when falling asleep or waking up? (score 0-6)

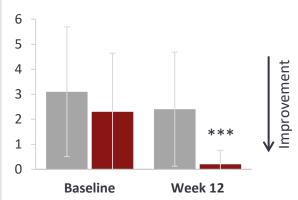
The First Light (3001)

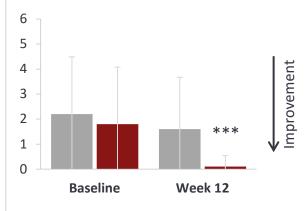




■ Placebo

The Radiant Light (3002)





■ Oveporexton 2 mg/2 mg

Nighttime symptoms (NSS-CT)

- ~85% of patients treated with oveporexton with no hallucinations or sleep paralysis at week 12
- ~67% of patients showing meaningful improvement on disturbed nighttime sleep (DNS)
- Improvements in nighttime symptoms further supported by additional objective (e.g., PSG) and subjective (e.g., sleep diary) exploratory endpoints

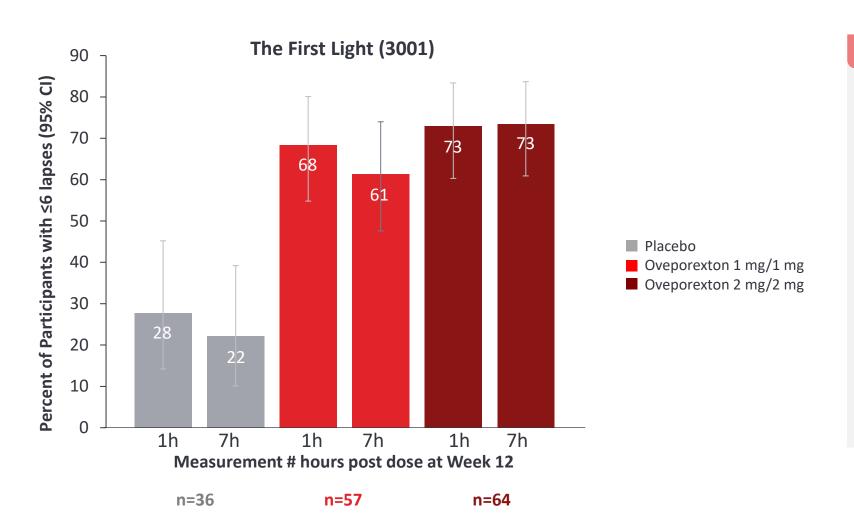
Oveporexton 1 mg/1 mg

Oveporexton significantly improved sustained attention throughout the day with ~70% patients within normative range



Psychomotor Vigilance Test (PVT): simple 10 min reaction performance task to measure sustained attention (test counts # of lapses in attention).

Normative levels: PVT lapses ≤ 6



Cognitive Symptoms (PVT)

- Majority of patients
 within normative range for both
 doses and both studies
- Significant improvements also on other cognitive domains based on additional exploratory cognitive tests
- the day (1 and 7 h post dose)

Oveporexton significantly improved overall functioning and quality of life



Oveporexton treatment resulted in group mean EQ-5D-5L index scores reaching **normative values**

SF-36 mental and physical component summary improved with oveporexton bringing majority of patients to normative range

Meaningful improvements across all domains of the Functional Impacts of Narcolepsy Instrument (FINI) vs placebo.



More than 80% of patients reporting no problems on 'Usual Activities' on EQ-5D-5L (compared to 30% of placebo patients)

Oveporexton resulted in significantly higher global treatment satisfaction at 12 weeks vs placebo

Oveporexton improved both physician- (CGI) and patient-reported (PGI-C) measures of overall treatment experience and NT1 disease severity, with nearly all patients (97%) reported improvements.

Oveporexton was generally well tolerated



	The First Light (3001)			The Radiant Light (3002)	
	Placebo (n=41)	1 mg/1 mg (n=60)	2 mg/2 mg (n=66)	Placebo (n=35)	2 mg/2 mg (n=70)
Any TEAE, n (%)	22 (53.7)	52 (86.7)	59 (89.4)	15 (42.9)	60 (85.7)
Mild	14 (34.1)	26 (43.3)	34 (51.5)	9 (25.7)	38 (54.3)
Moderate	7 (17.1)	24 (40.0)	23 (34.8)	5 (14.3)	20 (28.6)
Severe	1 (2.4)	2 (3.3)	2 (3.0)	1 (2.9)	2 (2.9)
Serious TEAE, n (%)	0	1 (1.7)	1 (1.5)	0	0
TEAEs leading to study drug discontinuation, n (%)	1 (2.4)	3 (5.0)	0	0	2 (2.9)
Most frequent TEAEs, n (%)					
Urinary frequency	3 (7.3)	32 (53.3)	36 (54.5)	1 (2.9)	43 (61.4)
Insomnia	0	32 (53.3)	38 (57.6)	1 (2.9)	40 (57.1)
Urinary urgency	1 (2.4)	9 (15.0)	12 (18.2)	0	10 (14.3)
Nasopharyngitis	6 (14.6)	6 (10.0)	10 (15.2)	0	0
Headache	5 (12.2)	4 (6.7)	10 (15.2)	2 (5.7)	3 (4.3)
Salivary hypersecretion	0	5 (8.3)	4 (6.1)	0	5 (7.1)

Adverse Events

- No treatment-related serious TEAEs
- Most common TEAEs: insomnia and urinary frequency and urgency
- Majority of TEAEs transient and started within first few days of treatment
 - ~70% patients who experienced insomnia events resolved within first 2 weeks of treatment
- No evidence of hepatotoxicity

Oveporexton has the potential to establish a new era of care with transformative efficacy





Oveporexton demonstrated transformative efficacy profile at 12 weeks with BID dosing

- Significant and clinically meaningful improvements across all NT1 symptoms
 - Majority of NT1 patients within normative ranges for MWT and ESS
 - Weekly cataplexy rate reduction (80-90%)
 - Significant improvement in cognition and nighttime symptoms
 - Significant improvement on multiple quality of life scales



Oveporexton was generally well-tolerated

- Most common TEAEs observed were insomnia and urinary events
- Most AEs were mild to moderate, started within first few days of treatment and resolved during the study
- >95% of patients completing the study enrolled into the long-term extension study



Oveporexton is on track to become the first-in-class treatment for NT1

Takeda is pioneering the field of orexin therapeutics with a potentially transformative franchise





Oveporexton: NT1

- Global filings on track to start FY25
- Breakthrough designation received in USA and China
- Potential first-in-class potential treatment for NT1



TAK-360: Fast following in NT2 & IH

- Novel chemistry and profile for orexin non-deficient indications
- Fast track designation received
- NT2 and IH currently in Ph2



Tailored orexin assets for additional indications

- Tailored orexin assets in preclinical/clinical stage (i.e. TAK-495)
- Optimized profiles for additional indications: sleep-wake¹, respiration², mood, metabolism, and beyond
- Orexin biomarkers to optimize patient outcomes

Oveporexton *Market Opportunity & Commercialization*

No time or energy for what matters most: coping through most aspects of life



Limited hours of functional "wakefulness" make meaningful activities like work, family care, or exercise often difficult and at times impossible

I'm angry with my own body. It becomes a self-detrimental emotional state"

Person with NT1, US1

Long, exhausting NT1 patient journey is fraught with roadblocks hindering accurate & timely diagnosis, often followed by lifetime of treatment trade-offs



A PATIENT'S JOURNEY TO DIAGNOSIS CAN TAKE DECADES

Symptom Onset



In the US, patients can spend ~10-15 years cycling through physicians & misdiagnoses before accurate NT1 diagnosis¹

Testing & Diagnosis



~40% of patients who reach a sleep specialist in the US are still misdiagnosed²

Treatment & Adjustment



>50% polypharmacy cycling in the US: despite treatment, NT1 is not well controlled¹

Isolated, Confused, Ashamed¹

Scared, Frustrated, Discouraged, Relieved¹

Hopeful, Uncertain, Disillusioned¹

Patients rely on symptomatic treatments, which often lead to persistent breakthrough or residual symptoms and suboptimal disease management



Current standard of care does not target Orexin deficiency, the underlying cause of NT1

75% of U.S. diagnosed patients are treated

75% of U.S. diagnosed patients are treated, but both <u>branded</u> and <u>generic</u> options address limited <u>symptoms</u> like EDS and cataplexy

- EDS: generic stimulants, branded wake promoting agents
- Cataplexy: generic antidepressants, branded oxybates

>50% of treated patients are on polypharmacy

High rates of treatment switching and/or discontinuation

- >50% polypharmacy¹
- Complex comorbidities and treatment cycling
- · Coping mechanisms & lifestyle adjustments often employed

>80% of patients report residual symptoms

Despite existing treatments, key unmet needs remain

- >80% of patients have reported <u>residual symptoms</u> despite treatment²
- Managing a range of side effects and potentially inconvenient dosing regimen
- Coverage restrictions and/or prohibitive cost¹

Despite treatment, many patients continue to experience symptoms and need to cope with the continued impact of NT1 on many aspects of their lives





Half as likely to have children^{1,2}



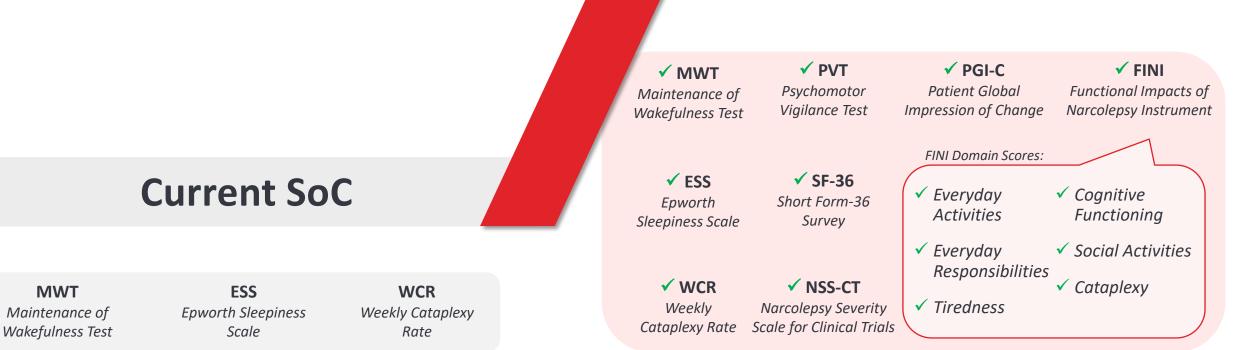
82% feel restricted in jobs they can pursue³



3.5x more likely to be clinically depressed⁴

Pioneering a potential paradigm shift with a development program designed to demonstrate the transformative efficacy of an Orexin therapy





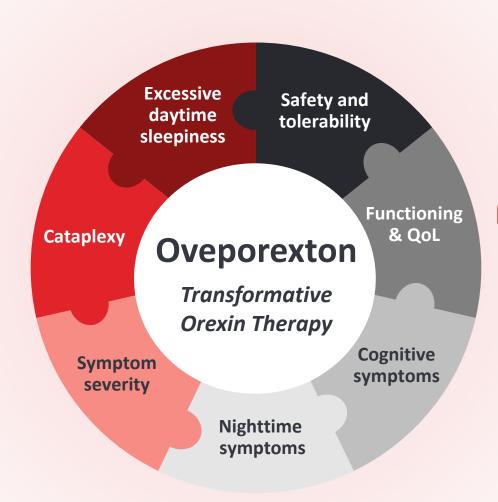
oveporexton

MWT

Oveporexton is poised to redefine treatment outcomes that matter most to patients



Being able to laugh and be sad freely, I feel like I've become a normal person and gained confidence.



You recover the life you want....You also make up for lost time, you start doing the things you couldn't do for years....



OVEPOREXTON Aspiration:

A New Era
Of Care

Designed to treat the root cause of NT1, OREXIN deficiency

Potential to be a transformative **OREXIN** therapy

Transformative efficacy demonstrated across a broad spectrum of NT1 symptoms

Takeda is leveraging its neuroscience and rare expertise to advance oveporexton towards the market*, preparing for a seamless patient and HCP experience



ASPIRING TO A NEW ERA OF CARE FOR NT1 PATIENTS:

EDUCATION & AWARENESS OF NT1 TRUE BURDEN AND ROLE OF OREXIN

ENABLING ACCESS TO TREATMENT

ADVANCING & ACCELERATING DIAGNOSIS

Knowledge & empowerment

Redefine treatment outcomes

Exploring innovative patient journey solutions

Largest real-world studies on burden

Pioneering data on broader impacts

Education on Orexin deficiency

First cost of illness & disease severity model

First diseasespecific PRO measure

Real-world monitoring of outcomes

Orexin biomarkers

Wearable & home test solutions

algorithms of high accuracy

Takeda Leadership & Global Commercial Footprint

Successful launch of oveporexton* will unlock the potential of a new era of care in NT1, starting in the US





Prevalent U.S. NT1 patients¹



Uncovering the true burden of narcolepsy

10-20%

Diagnosis Rate Optimization

Today's Diagnosis Rate: ~50%



Improving rate, speed and accuracy of NT1 diagnosis utilizing digital tools

5-10% +

Treatment Rate Increase

Today's Treatment Rate: ~75%



Redefine treatment outcomes with new MOA that addresses root cause of NT1

30-50% +

Preference Share



A new level of efficacy by addressing Orexin deficiency

Oveporexton's NT1 global peak revenue potential: \$2-3B+

Takeda is the leader in Orexin biology, aiming to transform patient





Pioneering Orexin science and catalyzing a potential new era of care for patients with narcolepsy type 1 (NT1) with oveporexton



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Ph3 results demonstrated oveporexton's potential to achieve outcomes that matter most to patients

Oveporexton U.S. and global filings on track to start in FY25; global \$2-3B+ peak revenue potential





Q&A Session

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HEATHER DEANSenior Vice President;
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Glossary of Abbreviations



Regional Abbreviations:

CN: China; EU: Europe; JP: Japan; U.S.: United States of America

AE	adverse event
Al	artifcial inetiligence
ASN	American Society of Nephrology
BID	bis in die, twice a day
BL	baseline
BTD	breakthrough therapy designation
CGI-C	Clinical Global Impression of Change
CI	confidence interval
CSF	cerebrospinal fluid
СУ	calender year
EDS	excessive daytime sleepiness
EMA	European Medicines Agency
EQ-5D-5L	EuroQol-5 Dimensions 5-levels
ESRS	European Sleep Research Society
ESS	Epworth Sleepiness Scale
FDA	U.S. Food & Drug Administration
FIH	first in human
FINI	Functional Impacts of Narcolepsy Instrument
FSI	first subject in
FY	fiscal year
НСР	healthcare professional

IH	idiopathic hypersomnia
IND	investigational new drug
IQR	Interquartile Range
IRR	Incidence Rate Ratio
JPY	Japanese Yen
KSS	Karolinska Sleepiness Scale
LFT	liver function test
LS	least square
LTE	long-term extension
MOA	mechanism of action
MWT	maintenance of wakefulness test
NDA	new drug application
NEJM	New England Journal of Medicine
NMPA	(China's) National Medical Products Administration
nPSG	nocturnal polysomnography
NSS-CT	Narcolepsy Severity Scale for Clinical Trials
NT1 or 2	narcolepsy type 1 or 2
OX2R	orexin receptor 2
ОХ-А	orexin A
PGI-C	Patient Clinical Global Impression of Change
Ph1, Ph2, Ph3	phase 1, 2,3

PK	pharmacokinetics
PMDA	Japan's Pharmaceuticals and Medical Devices Agency
POC	proof of concept
PRIME	Priority medicines scheme by EMA
PRO	patient reported outcomes
PSG	polysomnography
PVT	Psychomotor Vigilance Task
QOL	quality of life
R&D	Research and Development
SAE	serious adverse event
SD	standard deviation
SEM	standard error of the mean
SF-36	Short Form-36 Survey
soc	standard of care
TEAE	treatment emergent adverse event
Тх	therapy
USD	US dollar
WCR	weekly cataplexy rate
wk(s)	week(s)
ww	worldwide

Medical Presentation as presented at World Sleep 2025



Emmanuel Mignot, MD, PhD, USA

The First Light: Efficacy and safety of a multi-dose study of oveporexton (TAK-861), an oral orexin receptor 2 agonist, for the treatment of narcolepsy type 1

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Contributors



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Disclosures



Disclosures

- Emmanuel Mignot received consulting fees from Ambulatory Monitoring, Jazz Pharmaceuticals, and Takeda; research grant or trials to Stanford from Apple, Avadel, Eisei, Jazz Pharmaceuticals, and Takeda; travel funding from Harmony Biosciences, Paladin Labs, and Takeda; and stock options from Centessa.
- Isabelle Arnulf has no disclosures to declare.
- Giuseppe Plazzi received consultancy fees from Bioprojet, Jazz Pharmaceuticals, Orexia, and Takeda.
- Rafael del Rio Villegas received consultancy fees from Alkermes, Bioprojet, and Takeda, and travel funds from Bioprojet, Jazz Pharmaceuticals, and Takeda.
- Ramin Khatami received consulting fees, travel support, or board engagement from Bioprojet, Idorsia, Jazz Pharmaceuticals, and Takeda.
- Gert Jan Lammers has received consulting fees, grants, and travel funds from Alkermes, Bioprojet, Daiichi Sankyo, Eisai, Jazz Pharmaceuticals, and Takeda.
- Mitsutaka Taniguchi received funds for seminars and travel to conferences from Daiichi-Sankyo, Eisai, Shionogi, Taisho, Takeda, and Teijin.
- Yves Dauvilliers received funds for seminars, board engagements, and travel to conferences from Avadel, Bioprojet, Idorsia, Jazz Pharmaceuticals, Orexia, and Takeda.
- Harisha Kadali, Yeting Du, Samuel Hsiao, Tina Olsson, Sarah Sheikh, Christian von Hehn, and Mark Etherton are employees of Takeda Development Center Americas, Inc., and stockholders in Takeda Pharmaceuticals Company Limited.

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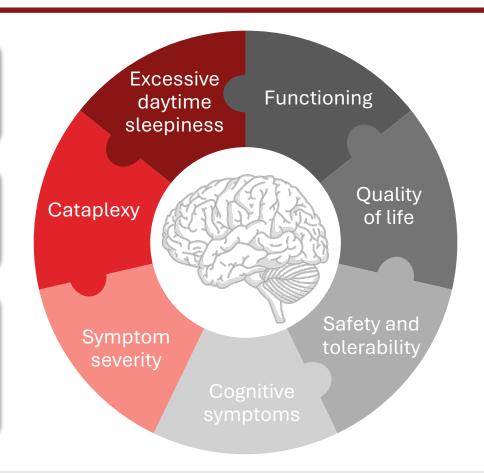
Background



Narcolepsy type 1 (NT1) is a chronic, rare, neurologic disorder of hypersomnolence characterized by a range of debilitating symptoms. 1-3

NT1 is caused by loss of the orexin-producing neurons in the brain, which regulate wakefulness, sleep, and attention through activation of orexin receptors. 1-3

Oveporexton (TAK-861) is a next-generation, highly potent oral orexin receptor 2 (OX2R)-selective agonist that activates the OX2R to restore signaling addressing the underlying orexin deficiency in NT1.4-6



OX2R, orexin receptor 2.

^{1.} Scammell TE. N Engl J Med 2015;373:2654-62. 2. Sateia M, American Academy of Sleep Medicine. International Classification of Sleep Disorders, 3rd Ed. Darien, IL: AASM; 2014.

^{3.} American Psychiatric Association. Sleep-wake disorders; narcolepsy. In: Diagnostic and Statistical Manual of Mental Disorders, 5th ed. Washington, DC: APA; 2013:372-82. 4. Mitsukawa K, et al. Sleep Med 2024;115(suppl 1):12. 5. Kimura H, et al. Sleep Med 2024;115(suppl 1):16. 6. Naylor M, et al. Sleep Med 2024;115(suppl 1):225.

Oveporexton development





Balanced efficacy and ontarget/off-target tolerability and safety¹

Early-phase clinical trials showed significant and meaningful improvements across the spectrum of NT1 symptoms.²

Here, we report the first data from The First Light phase 3 study designed to confirm the efficacy and safety of oveporexton in participants with NT1.

NT1, narcolepsy type 1.

^{1.} Mitsukawa K, et al. Sci Rep 2024;14:20838. 2. Dauvilliers Y, et al. N Engl J Med 2025;392:1905-16.

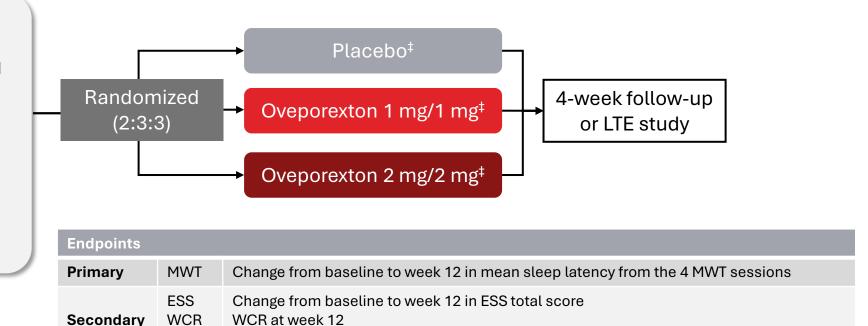
The First Light study design



 Randomized, double-blind, placebo-controlled, phase 3 study of twice-daily doses of oral oveporexton, an orexin receptor 2 agonist, conducted across Europe, Japan, and North America.

Inclusion criteria†:

- Participants aged 16–70 years
- ICSD-3/ICSD-3 TR diagnosis of NT1 supported by PSG/MSLT or orexin CSF ≤110 pg/mL
- ESS score ≥11
- ≥4 partial/complete episodes of cataplexy per week
- Positive for the HLA genotype HLA-DQB1*06:02 (in the absence of orexin CSF testing)



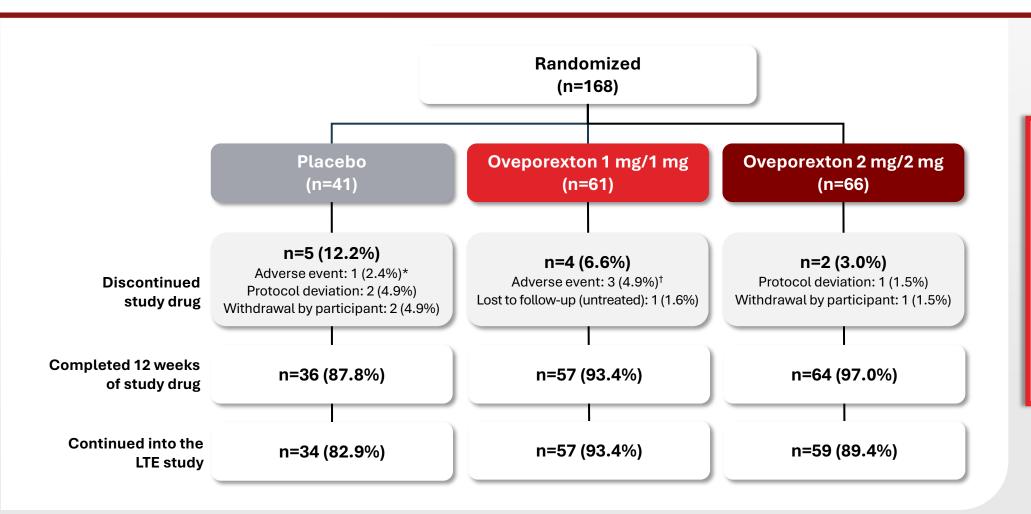
CSF, cerebrospinal fluid; ESS, Epworth Sleepiness Scale; HLA, human leukocyte antigen; ICSD-3, International Classification of Sleep Disorders, Third Edition; ICSD-3 TR, International Classification of Sleep Disorders, Third Edition, Text Revision; LTE, long-term extension; MSLT, multiple sleep latency test; MWT, Maintenance of Wakefulness Test; NT1, narcolepsy type 1; PSG, polysomnography; TEAE, treatmentemergent adverse event; WCR, weekly cataplexy rate. †US-based sites primarily used PSG/MSLT and HLA status for eligibility requirements. †Doses were given at least 3 h apart.

Incidence of adverse events

TEAEs

Participant disposition





- 168 participants randomized.
- 157 completed 12 weeks
- 150/157 (>95%) of those who completed the study continued into the long-term extension study.

LTE, long-term extension.

^{*}Liver function test increase (not related to study drug). †1 urinary frequency, 1 urinary incontinence, 1 liver function test increase (not related to study drug).

Participant characteristics at baseline



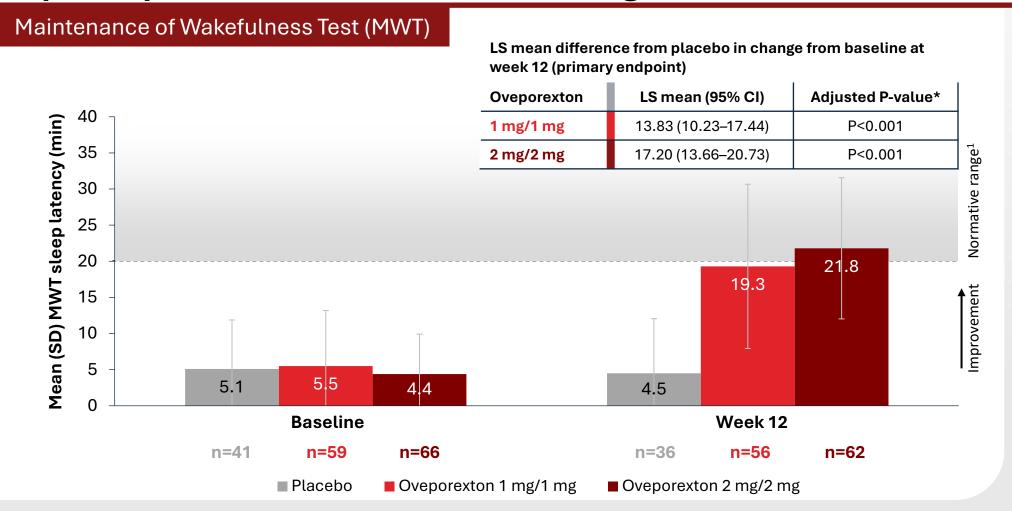
	Placebo (n=41)	Oveporexton 1 mg/1 mg (n=61)	Oveporexton 2 mg/2 mg (n=66)
Mean (SD) age, years	30.9 (12.7)	33.5 (11.8)	29.7 (9.6)
Female, n (%)	24 (58.5)	28 (45.9)	46 (69.7)
Race, n (%) Asian Black/African American White Other/unknown	6 (14.6) 4 (9.8) 15 (36.6) 16 (39.0)	10 (16.4) 3 (4.9) 17 (27.9) 31 (50.8)	10 (15.2) 0 27 (40.9) 29 (43.9)
Mean (SD) ESS total score	18.2 (3.6)	18.2 (2.6)	19.0 (3.2)
Mean (SD) MWT sleep latency, min Median (IQR) WCR	5.1 (6.8) 28.5 (16.5–59.5)	5.5 (7.7) 21.0 (9.0–45.0)	4.4 (5.5) 26.3 (14.5–52.8)
Mean (SD) NSS-CT total score	31.0 (9.6)	30.4 (8.7)	31.2 (7.3)
On prior medication for narcolepsy requiring washout, n (%)*	33 (80.5)	50 (83.3)	51 (77.3)

Demographics and disease characteristics were generally balanced across groups at baseline.

ESS, Epworth Sleepiness Scale; IQR, interquartile range; MWT, Maintenance of Wakefulness Test; NSS-CT, Narcolepsy Severity Scale for Clinical Trials; WCR, weekly cataplexy rate.
*Based on EDC data.

Oveporexton significantly improved mean sleep latency at 12 weeks compared with placebo, with majority of participants within the normative range





Proportion of participants achieving mean sleep latency ≥20 min at week 12:

Placebo: 2 (6%)

1 mg/1 mg: 27 (48%)

2 mg/2 mg: 35 (56%)

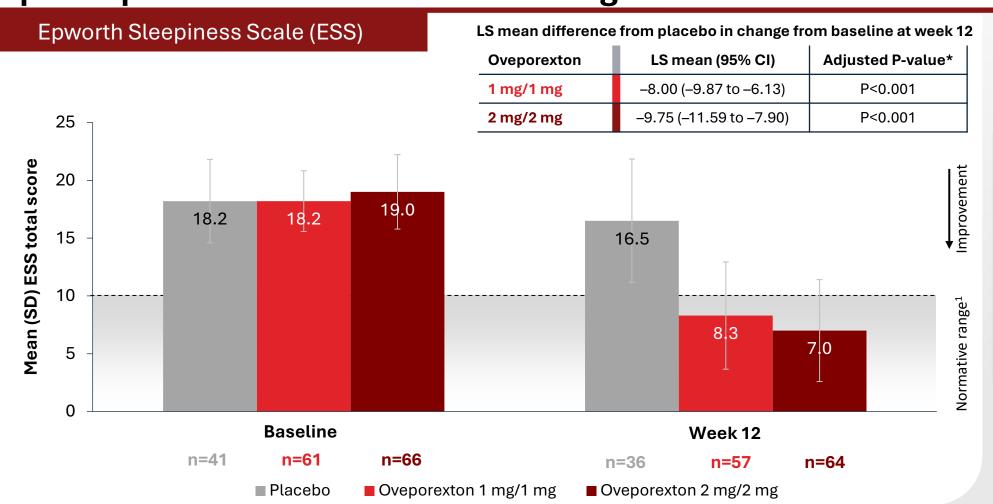
LS, least squares.

^{*}The analysis used a linear mixed-effects model for repeated measures with placebo-based multiple imputation. P-values have been adjusted for multiplicity.

^{1.} Doghramji K, et al. *Electroencephalogr Clin Neurophysiol* 1997;103:554-62.

Oveporexton significantly improved subjective sleepiness at 12 weeks compared with placebo, with majority of participants within the normative range





Proportion of participants achieving ESS total score ≤10 at week 12:

Placebo: 6 (17%)

1 mg/1 mg: 38 (67%)

2 mg/2 mg: 53 (83%)

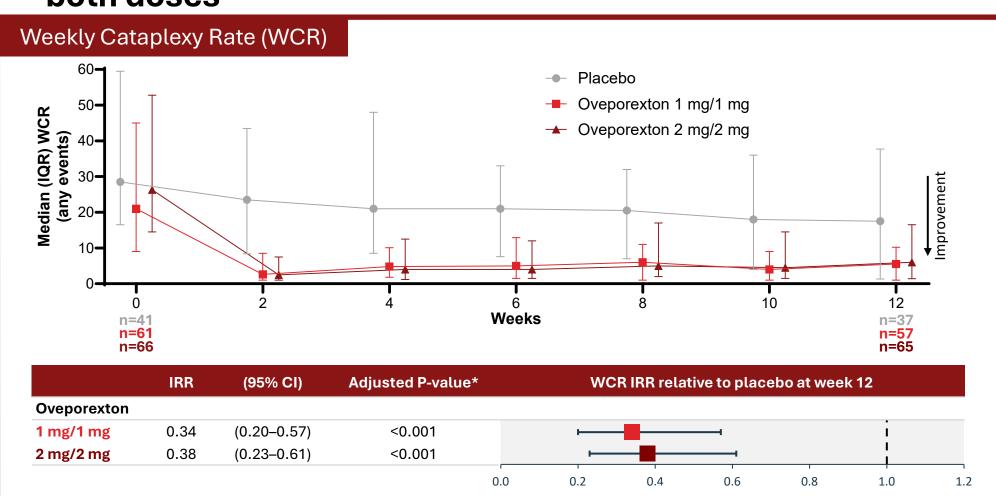
LS, least squares.

^{*}The analysis used a linear mixed-effects model for repeated measures with placebo-based multiple imputation. P-values have been adjusted for multiplicity.

^{1.} Johns MW. *Sleep* 1991;14:540-5.

Oveporexton significantly reduced WCR over 12 weeks versus placebo and increased the number of cataplexy-free days for both doses





- Median cataplexy-free days/week increased from 0 days at baseline (all arms) to ~4 days at week 12 with oveporexton doses versus 0.5 days with placebo.
- Median percentage reductions in WCR from baseline were 82.6% and 79.0% with oveporexton 1 mg and 2 mg doses, respectively, at week 12.

IQR, interquartile range; IRR, incidence rate ratio. *The analysis used a generalized estimating equations model (negative binomial) with placebo-based multiple imputation. P-values have been adjusted for multiplicity. The IRR is the incidence rate of the oveporexton group divided by the incidence rate of the placebo group.

IRR (95% CI)

Oveporexton was generally safe and well tolerated





Participants with:	Placebo (n=41)	Oveporexton 1 mg/1 mg (n=60)	Oveporexton 2 mg/2 mg (n=66)
Any TEAE, n (%)	22 (53.7)	52 (86.7)	59 (89.4)
Mild	14 (34.1)	26 (43.3)	34 (51.5)
Moderate	7 (17.1)	24 (40.0)	23 (34.8)
Severe*	1 (2.4)	2 (3.3)	2 (3.0)
Serious TEAE, n (%) [†]	0	1 (1.7)	1 (1.5)
TEAEs related to study drug, n (%)	9 (22.0)	46 (76.7)	53 (80.3)
TEAEs leading to study drug discontinuation, n (%)‡	1 (2.4)	3 (5.0)	0
Most frequent TEAEs, n (%)			
Urinary frequency	3 (7.3)	32 (53.3)	36 (54.5)
Insomnia	0	32 (53.3)	38 (57.6)
Urinary urgency	1 (2.4)	9 (15.0)	12 (18.2)
Nasopharyngitis	6 (14.6)	6 (10.0)	10 (15.2)
Headache	5 (12.2)	4 (6.7)	10 (15.2)
Salivary hypersecretion	0	5 (8.3)	4 (6.1)

- Most TEAEs were mild to moderate in severity and on-target events.
- No treatment-related serious TEAEs.
- The most common TEAEs of special interest were insomnia and urinary events.
 - Most were mild to moderate in severity and started within first days of treatment.
 - Did not require medical intervention.
- No safety concerns relating to any laboratory parameters and vital signs, and no evidence of hepatotoxicity.
- >95% of participants completing the study continued into the long-term extension study.

LFT, liver function test; TEAE, treatment-emergent adverse event. *Placebo: LFT increase; 1 mg/1 mg: ureterolithiasis, insomnia; 2 mg/2 mg: urinary frequency, insomnia, erythema. †1 mg/1 mg: ureterolithiasis (not related); 2 mg/2 mg: chest pain (not related). † Placebo: LFT increase; 1 mg/1 mg: urinary frequency, urinary incontinence, LFT increase (not related).

Conclusions



- This is the first report of phase 3 clinical data with an orexin receptor 2 agonist in people with NT1.
- In **The First Light phase 3 study**, twice-daily 1 mg and 2 mg doses of oral oveporexton resulted in statistically significant and clinically meaningful improvements versus placebo over 12 weeks.
 - Majority of participants receiving oveporexton reached normative levels of objective (MWT) wakefulness and subjective (ESS) sleepiness.
 - ~80% median reduction in weekly cataplexy rate for both doses.
- Oveporexton was generally safe and well tolerated.
 - Most TEAEs were mild to moderate in severity and self-limiting and were primarily on-target effects.
 - No safety concerns in relation to adverse events, vital signs, laboratory, or ECG data.
- Consistent with results from phase 2 study in participants with NT1 over 8 weeks.¹

Results from The First Light phase 3 study confirm that oveporexton, an oral orexin receptor agonist, provides meaningful improvement with the potential of transformational benefit to people with NT1.

ECG, electrocardiogram; ESS, Epworth Sleepiness Scale; MWT, Maintenance of Wakefulness Test; NT1, narcolepsy type 1; OX2R, orexin receptor 2; TEAE, treatment-emergent adverse event.

1. Dauvilliers Y, et al. N Engl J Med 2025;392:1905-16.



Questions





Yves Dauvilliers, MD, PhD, France

The Radiant Light: Efficacy and safety of oveporexton (TAK-861), an oral orexin receptor 2 agonist, for the treatment of narcolepsy type 1

Contributors



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*Co-senior authors

Disclosures



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- Yves Dauvilliers received funds for seminars, board engagements, and travel to conferences from Avadel, Bioprojet, Idorsia, Jazz Pharmaceuticals, Orexia, and Takeda.
- Jakub Antczak has no disclosures to declare.
- Erik Buntinx received consultancy fees from Alkermes, Eli Lilly, and Johnson & Johnson and is a major shareholder of ANeuroTech.
- Rafael del Rio Villegas received consultancy fees from Alkermes, Bioprojet, and Takeda, and travel funds from Bioprojet, Jazz Pharmaceuticals, and Takeda.
- Seung-Chul Hong was a principal investigator for Takeda.
- Sheila Sivam has received funding to attend clinical trial related investigator meetings or speaker fees from Avadel, Somnomed, Takeda, Teva, and Vertex Pharmaceuticals.
- Shuqin Zhan received consultancy fees from Takeda and travel funds from Eisai.
- Giuseppe Plazzi received consultancy fees from Bioprojet, Jazz Pharmaceuticals, Orexia, and Takeda.
- Elena Koundourakis, Rachel Neuwirth, Tina Olsson, Sarah Sheikh, Philipp von Rosenstiel, Baiyun Yao, and Alice Cai are employees of Takeda Development Center Americas, Inc., and stockholders in Takeda Pharmaceuticals Company Limited.

Acknowledgments

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Oveporexton development





Balanced efficacy and ontarget/off-target tolerability and safety¹

Early-phase clinical trials showed significant and meaningful improvements across the spectrum of NT1 symptoms.²

Here, we report the first data from The Radiant Light phase 3 study designed to confirm the efficacy and safety of oveporexton in participants with NT1.

NT1, narcolepsy type 1.

^{1.} Mitsukawa K, et al. Sci Rep 2024;14:20838. 2. Dauvilliers Y, et al. N Engl J Med 2025;392:1905-16.

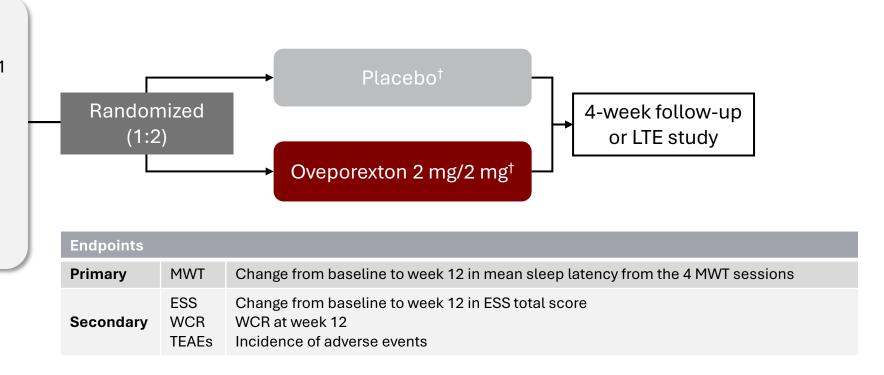
The Radiant Light study design



 Randomized, double-blind, placebo-controlled, phase 3 study of 2 mg twice-daily oral oveporexton, an orexin receptor 2 agonist, conducted across Asia, Australia, and Europe.

Inclusion criteria:

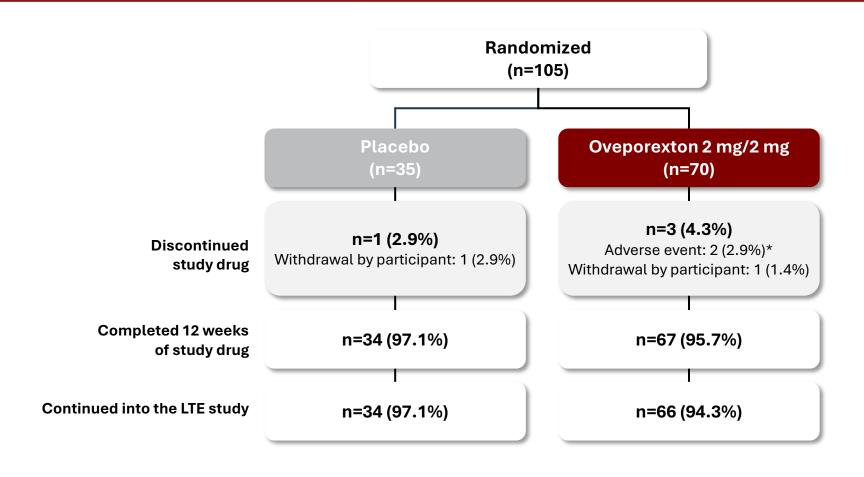
- Participants aged 16–70 years
- ICSD-3/ICSD-3 TR diagnosis of NT1 supported by PSG/MSLT or orexin CSF ≤110 pg/mL
- ESS score ≥11
- ≥4 partial/complete episodes of cataplexy per week
- Positive for the HLA genotype HLA-DQB1*06:02 (in the absence of orexin CSF testing)



CSF, cerebrospinal fluid; ESS, Epworth Sleepiness Scale; HLA, human leukocyte antigen; ICSD-3, International Classification of Sleep Disorders, Third Edition; ICSD-3 TR, International Classification of Sleep Disorders, Third Edition, Text Revision; LTE, long-term extension; MSLT, multiple sleep latency test; MWT, Maintenance of Wakefulness Test; PSG, polysomnography; TEAE, treatment-emergent adverse event; WCR, weekly cataplexy rate. †Doses were given at least 3 h apart.

Participant disposition





- 105 participants were randomized.
- 101 completed 12 weeks
- 100/101 (99%) of those who completed the study drug continued into the long-term extension study.

LTE, long-term extension

^{*2} cases reported as rhabdomyolysis, both due to intense exercise associated with asymptomatic transaminase increase.

Participant characteristics at baseline



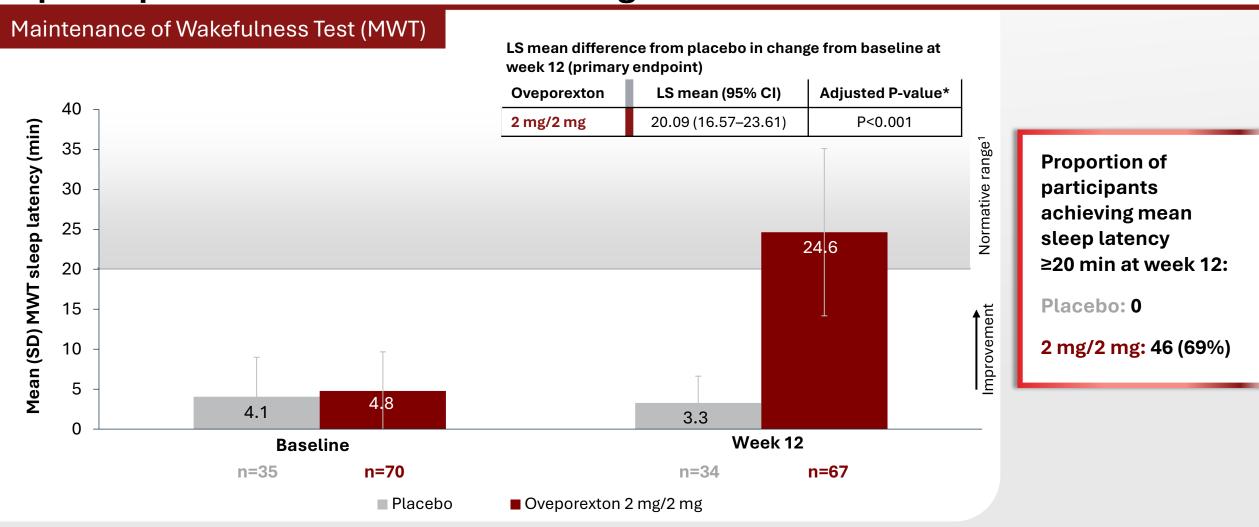
	Placebo (n=35)	Oveporexton 2 mg/2 mg (n=70)
Mean (SD) age, years	34.0 (13.1)	29.1 (9.6)
Female, n (%)	13 (37.1)	37 (52.9)
Race, n (%) Asian Black/African American White Unknown	7 (20.0) 0 19 (54.3) 9 (25.7)	14 (20.0) 0 28 (40.0) 28 (40.0)
Mean (SD) ESS total score	17.9 (3.0)	17.3 (3.4)
Mean (SD) MWT sleep latency, min	4.1 (4.9)	4.8 (4.9)
Median (IQR) WCR	27.0 (19.0–66.5)	21.8 (10.5–37.5)
Mean (SD) NSS-CT total score	31.9 (9.3)	30.7 (9.3)
On prior narcolepsy medication for narcolepsy requiring washout, n (%)*	26 (74.3)	59 (84.3)

Demographics and disease characteristics were generally balanced across groups at baseline.

ESS, Epworth Sleepiness Scale; IQR, interquartile range; MWT, Maintenance of Wakefulness Test; NSS-CT, Narcolepsy Severity Scale for Clinical Trials; WCR, weekly cataplexy rate. *Based on EDC data.

Oveporexton significantly improved mean sleep latency at 12 weeks compared with placebo, with majority of participants within the normative range

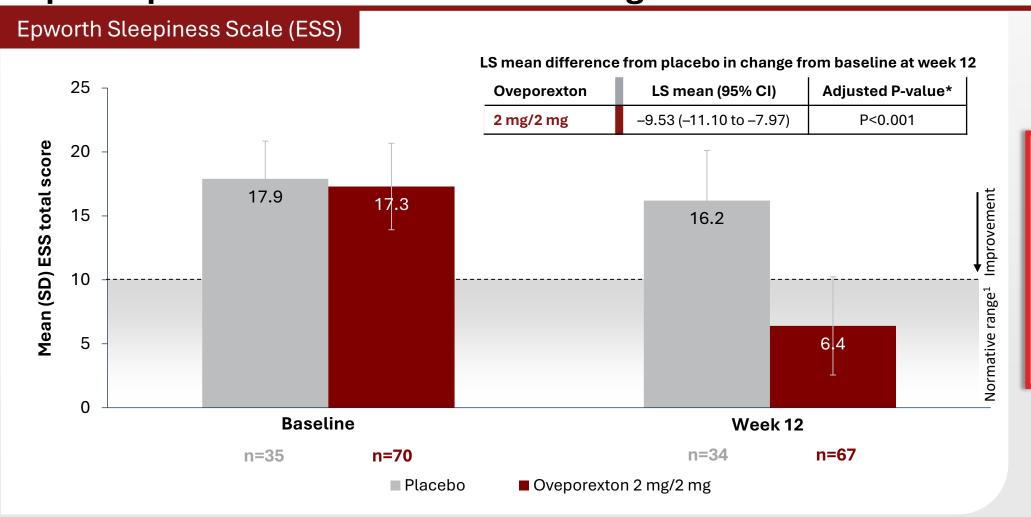




LS, least squares. *The analysis used a linear mixed-effects model for repeated measures with placebo-based multiple imputation. P-values have been adjusted for multiplicity. 1. Doghramji K, et al. Electroencephalogr Clin Neurophysiol 1997;103:554-62.

Oveporexton significantly improved subjective sleepiness at 12 weeks compared with placebo, with majority of participants within the normative range





Proportion of participants achieving ESS total score ≤10 at week 12:

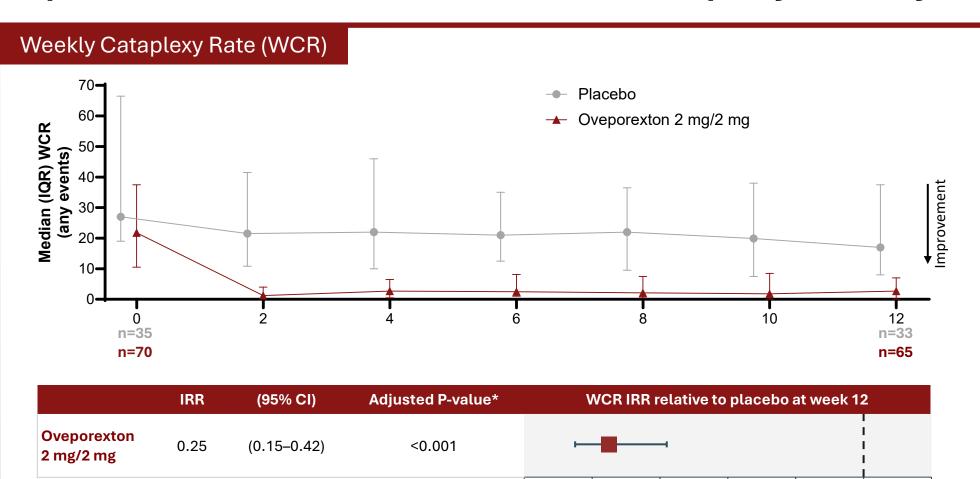
Placebo: 4 (12%)

2 mg/2 mg: 56 (84%)

LS, least squares. *The analysis used a linear mixed-effects model for repeated measures with placebo-based multiple imputation. P-values have been adjusted for multiplicity. 1. Johns MW. Sleep 1991;14:540-5.

Oveporexton significantly reduced WCR over 12 weeks versus placebo and increased the number of cataplexy-free days





- Median cataplexy-free days/week increased from **0 days at** baseline to 5 days at week 12 with oveporexton versus no increase with placebo.
- Median percentage reduction in WCR from baseline was 88.8% with oveporexton 2 mg doses at week 12.

0.4

0.6

IRR (95% CI)

0.8

1.0

1.2

0.2

0.0

IQR, interquartile range; IRR, incidence rate ratio. *The analysis used a generalized estimating equations model (negative binomial) with placebo-based multiple imputation. P-values have been adjusted for multiplicity. The IRR is the incidence rate of the oveporexton group divided by the incidence rate of the placebo group.

Oveporexton was generally safe and well tolerated



Participants with:	Placebo (n=35)	Oveporexton 2 mg/2 mg (n=70)
Any TEAE, n (%)	15 (42.9)	60 (85.7)
Mild	9 (25.7)	38 (54.3)
Moderate	5 (14.3)	20 (28.6)
Severe*	1 (2.9)	2 (2.9)
Serious TEAE, n (%)	0	0
TEAEs related to study drug, n (%)	3 (8.6)	56 (80.0)
TEAEs leading to study drug discontinuation, n (%)†	0	2 (2.9)
Most frequent TEAEs, n (%)		
Urinary frequency	1 (2.9)	43 (61.4)
Insomnia	1 (2.9)	40 (57.1)
Urinary urgency	0	10 (14.3)
Headache	2 (5.7)	3 (4.3)
Salivary hypersecretion	0	5 (7.1)

- Most TEAEs were mild to moderate in severity and on-target events.
- No treatment-related serious TEAEs.
- The most common TEAEs of special interest were insomnia and urinary events.
 - Most were mild to moderate in severity, started within first days of treatment, and were transient in nature.
 - Did not require medical intervention.
- No blood pressure–related TEAEs,[‡] no safety concerns relating to any laboratory parameters, and no evidence of hepatotoxicity.
- 99% of participants completing the study drug continued into the long-term extension study.

TEAE, treatment-emergent adverse event. *Placebo: tooth infection (unrelated); 2 mg/2 mg: urinary frequency (related), insomnia (related). †2 mg/2 mg: 2 reports of rhabdomyolysis due to intensive exercise, both asymptomatic, discontinued per protocol. ‡1 case of transient palpitations with 2 mg/2 mg oveporexton.

Conclusions



- The first results from **The Radiant Light phase 3 study** in Asia, Australia, and Europe are consistent with those from **The First Light study** in Europe, Japan, and North America¹ and with the 8-week phase 2 TAK-861-2001 study in participants with NT1.²
- Oveporexton 2 mg/2 mg demonstrated statistically significant and clinically meaningful improvements versus placebo.
 - The majority of participants receiving oveporexton reached normative levels of objective (MWT) wakefulness and subjective (ESS) sleepiness.
 - ~90% median reduction in weekly cataplexy rate.
- Observed TEAEs were similar between the 2 studies.
 - Most TEAEs were mild to moderate in severity and self-limiting and were primarily on-target effects.
 - No safety concerns in relation to adverse events, vital signs, laboratory, or ECG data.

Results from The Radiant Light phase 3 study confirm that oveporexton, an oral orexin receptor 2 agonist, provides meaningful improvement with the potential of transformational benefit to people with NT1.

ECG. electrocardiogram; ESS, Epworth Sleepiness Scale; MWT, Maintenance of Wakefulness Test; NT1, narcolepsy type 1; TEAE, treatment-emergent adverse event. 1. Mignot E, et al. WSC oral presentation O-09. 2. Dauvilliers Y, et al. N Engl J Med 2025;392:1905-16.



Questions





Lucie Barateau, MD, PhD, France

Effect of oral orexin receptor 2 agonist oveporexton (TAK-861) on the severity of symptoms in individuals with narcolepsy type 1: Results from two phase 3 studies

Contributors



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Disclosures



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- Lucie Barateau received funds for travel to conferences from Bioprojet and Idorsia and for board engagement from Bioprojet, Idorsia, Jazz Pharmaceuticals, and Takeda.
- Isabelle Arnulf has no disclosures to declare.
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- Under the direction of the authors, Lindsay Napier, PhD, CMPP, and Becky Ayles, PhD, employees of Envision Catalyst, an Envision Medical Communications agency, a part of Envision Pharma Group, provided writing assistance for this presentation. Editorial assistance in formatting, proofreading, copy editing, and fact-checking was also provided by Envision Catalyst. Takeda Development Center Americas, Inc., provided funding to Envision Catalyst for support in writing and editing this presentation.

Background



• In **The First Light** (Europe, Japan, and North America) and **The Radiant Light** (Asia, Australia, and Europe) **phase 3 studies,** twice-daily oral doses of 1 mg and 2 mg oveporexton, an orexin receptor 2 agonist, given at least 3 h apart demonstrated statistically significant and clinically meaningful improvements on measures of wakefulness (MWT), sleepiness (ESS), and cataplexy frequency over 12 weeks versus placebo.

In this analysis of data from **The First Light and The Radiant Light phase 3 studies,** we evaluated the effect of oveporexton on NT1 symptom severity using the Narcolepsy Severity Scale for Clinical Trials (NSS-CT) and the Patient Global Impression (PGI) scales.

Narcolepsy Severity Scale for Clinical Trials (NSS-CT)



• The **NSS-CT** is a validated, self-administered, 15-item scale evaluating severity, frequency, and impact of **the spectrum of narcolepsy symptoms**, with domains for **sleepiness**, **cataplexy**, **sleep paralysis**, **hallucinations**, and **disrupted nocturnal sleep**. 1,2

	Scoring	Items, n
Symptom severity	6-point Likert scale (0–5)	6
Symptoms consequences on daily life	4-point Likert scale (0–3)	9
Total score = 0-57		

•	In adults, an 8-point difference between treated and
	untreated patients is considered clinically meaningful. 1,2

•	A pediatric	version i	is also	available.

4 severity levels:	Score		
Very severe	43–57		
Severe	29–42		
Moderate	15–28		
Mild	0–14		

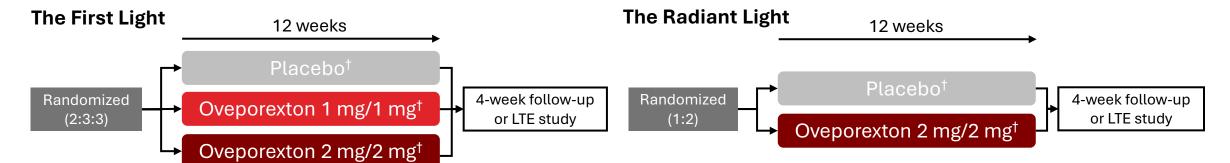
The NSS-CT is distributed worldwide by Mapi Research Trust, https://eprovide.mapi-trust.org/instruments/ narcolepsy-severity-scale-for-clinical-trials

¹. Dauvilliers Y, et al. *Sleep* 2020;43:1-11. **2**. Dauvilliers Y, et al. *Neurology* 2017;88:1358-65.

The First Light & The Radiant Light study designs



• 2 randomized, double-blind, placebo-controlled, phase 3 studies of twice-daily oral oveporexton, an orexin receptor 2 agonist, conducted across Asia, Australia, Europe, and North America.



Inclusion criteria:

- Aged 16–70 years
- ICSD-3/ICSD-3 TR diagnosis of NT1 supported by PSG/MSLT or orexin CSF ≤110 pg/mL
- ESS score ≥11
- ≥4 partial/complete episodes of cataplexy per week
- Positive for the HLA genotype HLA-DQB1*06:02 (in the absence of orexin testing)

Selected endpoints			
NSS-CT		Change from baseline to week 12	
Secondary	PGI-C	Proportion of subjects reporting "much" or "very much" improved at week 12	
Exploratory	PGI-S	Proportion of subjects reporting at least 1 levels of improvement at week 12	

CSF, cerebrospinal fluid; ESS, Epworth Sleepiness Scale; HLA, human leukocyte antigen; ICSD-3, International Classification of Sleep Disorders, Third Edition; ICSD-3 TR, International Classification of Sleep Disorders, Third Edition, Text Revision; LTE, long-term extension; MSLT, multiple sleep latency test; NSS-CT, Narcolepsy Severity Scale for Clinical Trials; NT1, narcolepsy type 1; PGI-S/C, Patient Global Impression of Symptom Severity/Change; PSG, polysomnography. †Doses were given at least 3 h apart.

Disease characteristics were generally similar across groups at baseline



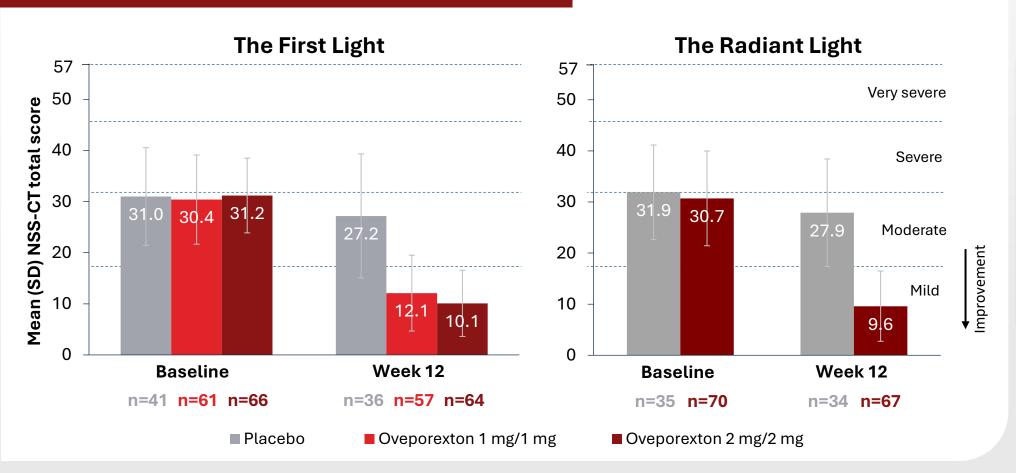
	The First Light			The Radiant Light	
	Placebo (n=41)	Oveporexton 1 mg/1 mg (n=61)	Oveporexton 2 mg/2 mg (n=66)	Placebo (n=35)	Oveporexton 2 mg/2 mg (n=70)
Mean (SD) age, years	30.9 (12.7)	33.5 (11.8)	29.7 (9.6)	34.0 (13.1)	29.1 (9.6)
Female, n (%)	24 (58.5)	28 (45.9)	46 (69.7)	13 (37.1)	37 (52.9)
Mean (SD) ESS total score	18.2 (3.6)	18.2 (2.6)	19.0 (3.2)	17.9 (3.0)	17.3 (3.4)
Mean (SD) MWT sleep latency, min	5.1 (6.8)	5.5 (7.7)	4.4 (5.5)	4.1 (4.9)	4.8 (4.9)
Median (IQR) WCR	28.5 (16.5–59.5)	21.0 (9.0–45.0)	26.3 (14.5–52.8)	27.0 (19.0–66.5)	21.8 (10.5–37.5)
Mean (SD) NSS-CT total score	31.0 (9.6)	30.4 (8.7)	31.2 (7.3)	31.9 (9.3)	30.7 (9.3)
PGI-S "severe" or "very severe", n (%)	26 (63.4)	37 (60.7)	47 (71.2)	22 (62.9)	47 (67.1)

ESS, Epworth Sleepiness Scale; IQR, interquartile range; MWT, Maintenance of Wakefulness Test; NSS-CT, Narcolepsy Severity Scale for Clinical Trials; PGI-S, Patient Global Impression-Severity; WCR, weekly cataplexy rate.

Oveporexton resulted in statistically significant and clinically meaningful changes in NSS-CT total score versus placebo



Narcolepsy Severity Scale for Clinical Trials (NSS-CT)



LS mean (95% CI) change from baseline versus placebo at week 12:

TAK-861-3001

1 mg/1 mg: -14.4 (-17.8 to -10.9) 2 mg/2 mg: -16.9 (-20.2 to -13.5)

TAK-861-3002

2 mg/2 mg: –18.1 (–21.3 to –15.0)

All P<0.001

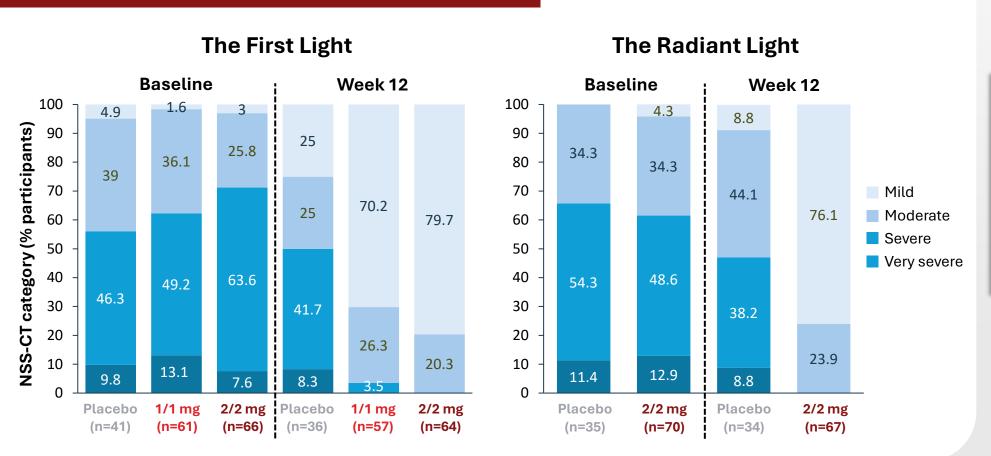
LS, least squares.

The analysis used a linear mixed-effects model for repeated measures with placebo-based multiple imputation for missing data.

Most participants achieved mild or moderate symptom severity over 12 weeks of oveporexton



Narcolepsy Severity Scale for Clinical Trials (NSS-CT)

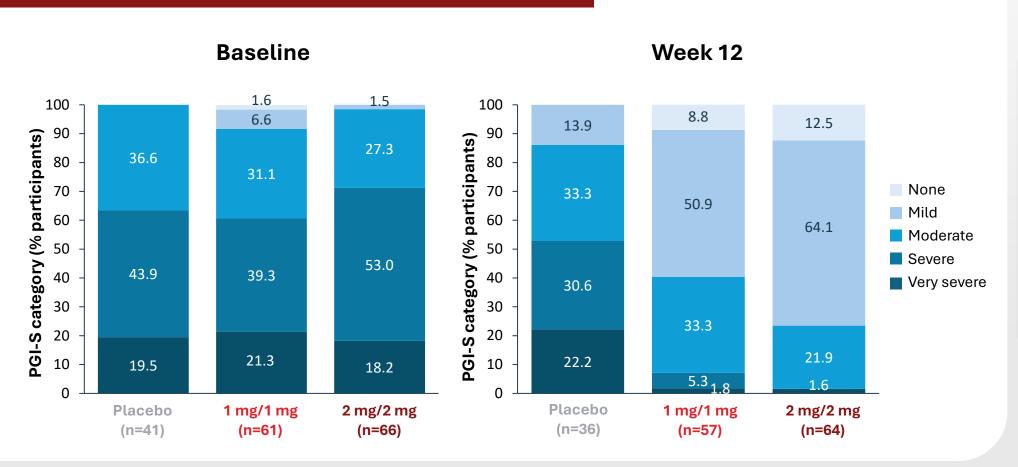


Across both studies, >70% of participants treated with oveporexton had mild symptoms at week 12 versus <25% with placebo.

The First Light: Most oveporexton-treated participants reported no or mild symptoms at week 12 versus placebo



Patient Global Impression of Symptom Severity (PGI-S)

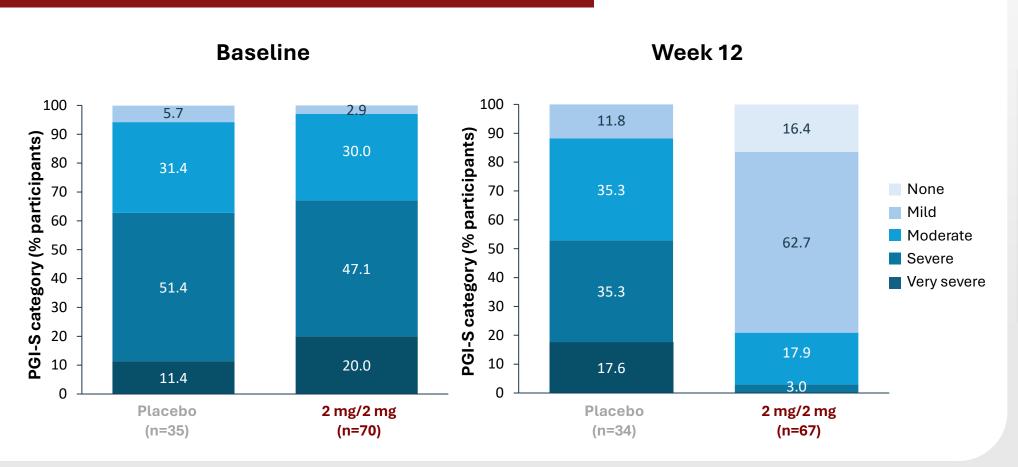


69% of participants treated with oveporexton overall had no or mild symptom severity at week 12 versus 14% with placebo (nominal P-value <0.001 for both doses).

The Radiant Light: Most oveporexton-treated participants reported no or mild symptoms at week 12 versus placebo



Patient Global Impression of Symptom Severity (PGI-S)

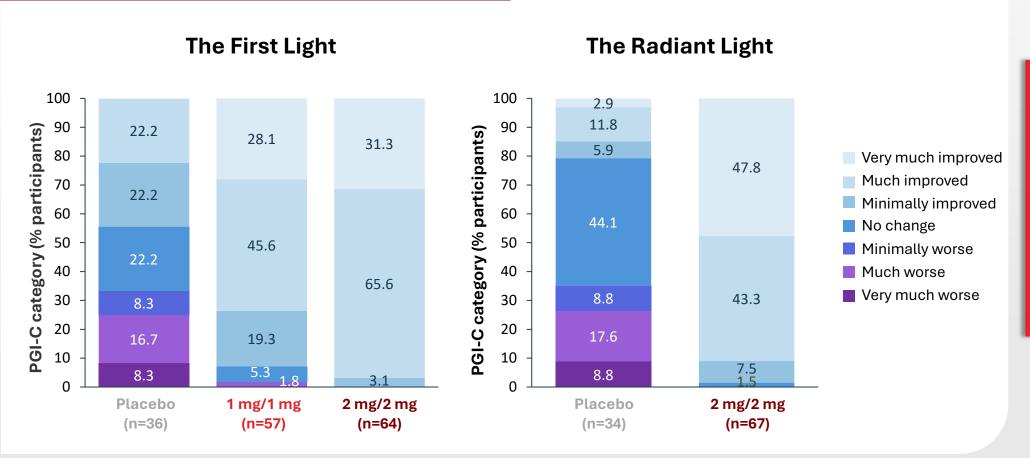


79% of participants treated with oveporexton had no or mild symptom severity at week 12 versus 12% with placebo (nominal P-value < 0.001).

Oveporexton resulted in statistically significant improvements in PGI-C at week 12 versus placebo*



Patient Global Impression of Change (PGI-C)



Across both studies, 74–97% of participants treated with oveporexton had much improved or very much improved symptoms at week 12 versus 12-22% with placebo.

^{*}Statistically significant improvements (proportion very much improved or much improved); secondary endpoint.

Oveporexton was generally safe and well tolerated



	The First Light			The Radiant Light	
	Placebo (n=41)	Oveporexton 1 mg/1 mg (n=60)	Oveporexton 2 mg/2 mg (n=66)	Placebo (n=35)	Oveporexton 2 mg/2 mg (n=70)
Any TEAE, n (%) Mild Moderate Severe	22 (53.7) 14 (34.1) 7 (17.1) 1 (2.4)	52 (86.7) 26 (43.3) 24 (40.0) 2 (3.3)	59 (89.4) 34 (51.5) 23 (34.8) 2 (3.0)	15 (42.9) 9 (25.7) 5 (14.3) 1 (2.9)	60 (85.7) 38 (54.3) 20 (28.6) 2 (2.9)
Serious TEAE, n (%)	0	1 (1.7)	1 (1.5)	0	0
TEAEs related to study drug, n (%)	9 (22.0)	46 (76.7)	53 (80.3)	3 (8.6)	56 (80.0)
TEAEs leading to study drug discontinuation, n (%)	1 (2.4)	3 (5.0)	0	0	2 (2.9)
Most frequent TEAEs, n (%)					
Urinary frequency	3 (7.3)	32 (53.3)	36 (54.5)	1 (2.9)	43 (61.4)
Insomnia	0	32 (53.3)	38 (57.6)	1 (2.9)	40 (57.1)
Urinary urgency	1 (2.4)	9 (15.0)	12 (18.2)	0	10 (14.3)
Nasopharyngitis	6 (14.6)	6 (10.0)	10 (15.2)	0	0
Headache	5 (12.2)	4 (6.7)	10 (15.2)	2 (5.7)	3 (4.3)
Salivary hypersecretion	0	5 (8.3)	4 (6.1)	0	5 (7.1)

TEAE, treatment-emergent adverse event.

Conclusions



- In **The First Light and The Radiant Light phase 3 studies**, twice-daily 1 mg and 2 mg doses of oral oveporexton significantly improved disease severity as assessed with the NSS-CT, PGI-S, and PGI-C scales versus placebo in participants with NT1 over 12 weeks.
- Oveporexton was generally safe and well tolerated.
- These results are consistent with those from the phase 2 TAK-861-2001 study in participants with NT1 over 8 weeks.¹

Phase 3 studies confirmed that treatment with oveporexton, an oral orexin receptor 2 agonist, shows improvements across the full NT1 spectrum of symptoms.

NSS-CT, Narcolepsy Severity Scale for Clinical Trials; PGI-C, Patient Global Impression of Change; PGI-S, Patient Global Impression of Symptom Severity.

1. Dauvilliers Y, et al. N Engl J Med 2025;392:1905-16.



Questions





Sheila Sivam, MD, PhD, Australia

Effect of the oral orexin receptor 2 agonist oveporexton (TAK-861) on quality of life in individuals with NT1 over 12 weeks

WORLDSLEEPCONGRESS.COM

Contributors



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Disclosures



Disclosures

- Sheila Sivam has received funding to attend clinical trial related investigator meetings or speaker fees from Avadel, Somnomed, Takeda, Teva, and Vertex Pharmaceuticals.
- Samuel Hsiao, Yeting Du, Heather Romero, and Tina Olsson are employees of Takeda Development Center Americas, Inc., and stockholders in Takeda Pharmaceutical Company Limited.

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- This work was funded by Takeda Development Center Americas, Inc.
- Under the direction of the authors, Lindsay Napier, PhD, CMPP, and Becky Ayles, PhD, employees of Envision Catalyst, an Envision Medical Communications agency, a part of Envision Pharma Group, provided writing assistance for this presentation. Editorial assistance in formatting, proofreading, copy editing, and fact-checking was also provided by Envision Catalyst. Takeda Pharmaceutical Company Limited provided funding to Envision Catalyst for support in writing and editing this presentation.

Background



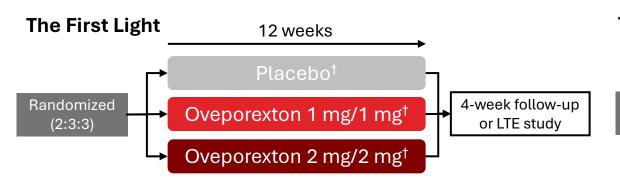
- In **The First Light** (Europe, Japan, and North America) and **The Radiant Light** (Asia, Australia, and Europe) **phase 3 studies,** twice-daily oral doses of 1 mg and 2 mg oveporexton, an orexin receptor 2 agonist, given at least 3 h apart demonstrated statistically significant and clinically meaningful improvements on measures of wakefulness (MWT), sleepiness (ESS), and cataplexy frequency over 12 weeks versus placebo.
- In **The First Light** and **The Radiant Light phase 3 studies,** oral oveporexton significantly improved disease severity, as assessed with the NSS-CT and PGI-C scales, versus placebo in participants with NT1 over 12 weeks.

We evaluated the effect of oveporexton (TAK-861) on measures of health-related quality of life (HRQoL) in participants with NT1 from **The First Light and The Radiant Light phase 3 studies**.

The First Light & The Radiant Light study designs



• 2 randomized, double-blind, placebo-controlled, phase 3 studies of twice-daily oral oveporexton, an orexin receptor 2 agonist, conducted across Asia, Australia, Europe, and North America.





Inclusion criteria:

- Adults aged 16–70 years
- ICSD-3/ICSD-3 TR diagnosis of NT1 supported by PSG/MSLT or orexin CSF ≤110 pg/mL
- ESS score ≥11
- ≥4 partial/complete episodes of cataplexy per week
- Positive for the HLA genotype HLA-DQB1*06:02 (in the absence of orexin CSF testing)

Selected endpoints					
Secondary	SF-36 MCS/PCS	Change from baseline to week 12			
Exploratory	SF-36 domains EQ-5D-5L Index EQ-5D-5L VAS	Change from baseline to week 12			

CSF, cerebrospinal fluid; EQ-5D-5L VAS, EuroQol 5-Dimension-5 Level visual analog scale; ESS, Epworth Sleepiness Scale; HLA, human leukocyte antigen; ICSD-3, International Classification of Sleep Disorders, Third Edition; ICSD-3 TR, International Classification of Sleep Disorders, Third Edition, Text Revision; LTE, long-term extension; MSLT, Multiple Sleep Latency Test; PSG, polysomnography; SF-36 MCS/PCS, 36-Item Short Form Mental Component Summary/Physical Component Summary. †Doses were given at least 3 h apart.

Short Form-36 Survey (SF-36)



• SF-36 is a patient-reported assessment of quality of life and overall health status.¹

- 36 items: 35 items constitute the domain scores, and 1 general health item.
- Norm-based scoring of each domain is based on the US general population: standardized with mean = 50, SD = 10.
- Domain scores range from 0 to 100;
 higher scores indicate better health.
- 3-point difference between treatment groups is considered clinically meaningful.²

Health domain scales	ltems, n	Physical Component Summary*	Mental Component Summary*
Physical Functioning (PF)	10		
Role-Physical (RP)	4		
Bodily Pain (BP)	2		
General Health (GH)	5		
Vitality (VT)	4		
Social Functioning (SF)	2		
Role-Emotional (RE)	3		
Mental Health (MH)	5		

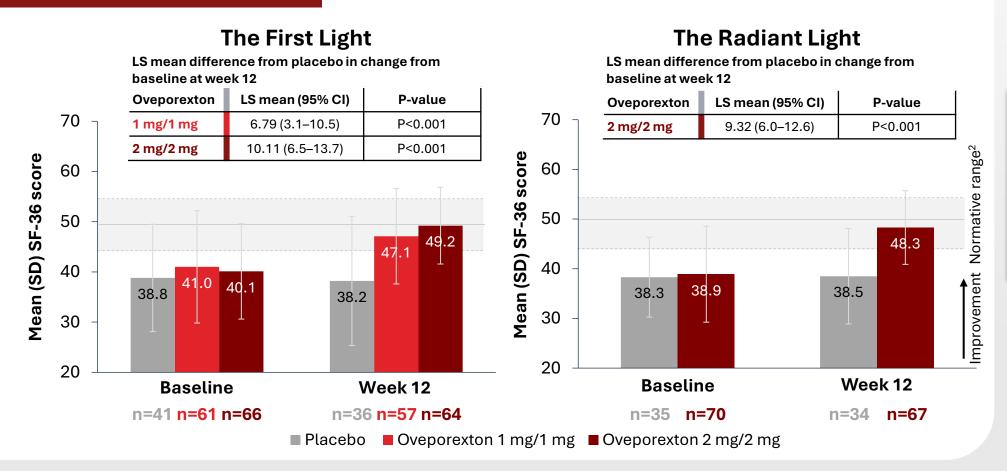
^{*}Some domains contribute questions to both the Physical and Mental Component Summaries.

^{1.} Maruish ME. User's manual for the SF-36v2 Health Survey (3rd ed). Lincoln, RI: QualityMetric Incorporated; 2011. 2. Maski K, et al. J Clin Sleep Med 2021;17:1895-945.

Oveporexton significantly improved patient-reported QoL on the SF-36 Mental Component Summary over 12 weeks



Short Form-36 Survey (SF-36)



Improvements on the SF-36 MCS exceeded the minimum clinically relevant difference of 3 points.¹

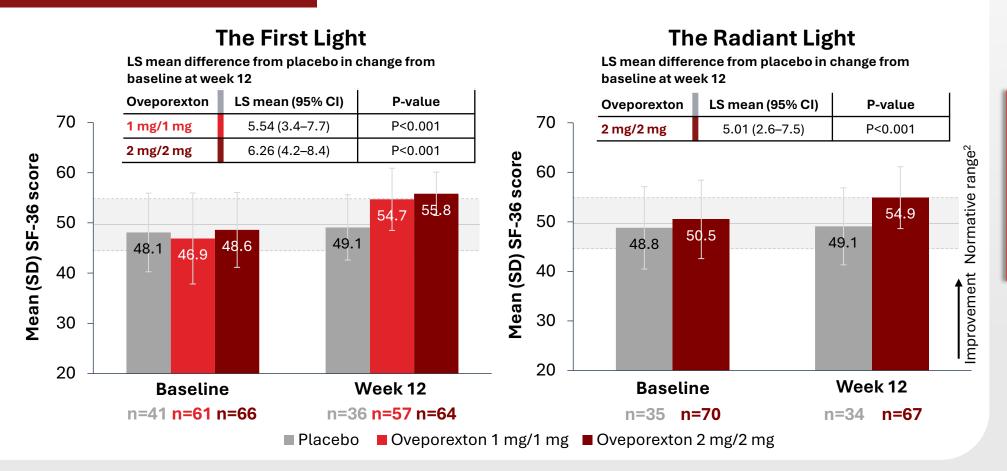
LS, least squares; MCS, Mental Component Summary; QoL, quality of life. The analysis used a linear mixed-effects model for repeated measures with placebo-based multiple imputation. P-values have been adjusted for multiplicity.

^{1.} Maski K, et al. J Clin Sleep Med 2021;17:1895-945. 2. Maruish ME. User's manual for the SF-36v2 Health Survey (3rd ed). Lincoln, RI: QualityMetric Incorporated; 2011.

Oveporexton significantly improved patient-reported QoL on the SF-36 Physical Component Summary over 12 weeks



Short Form-36 Survey (SF-36)



Improvements on the SF-36 PCS exceeded the minimum clinically relevant difference of 3 points.¹

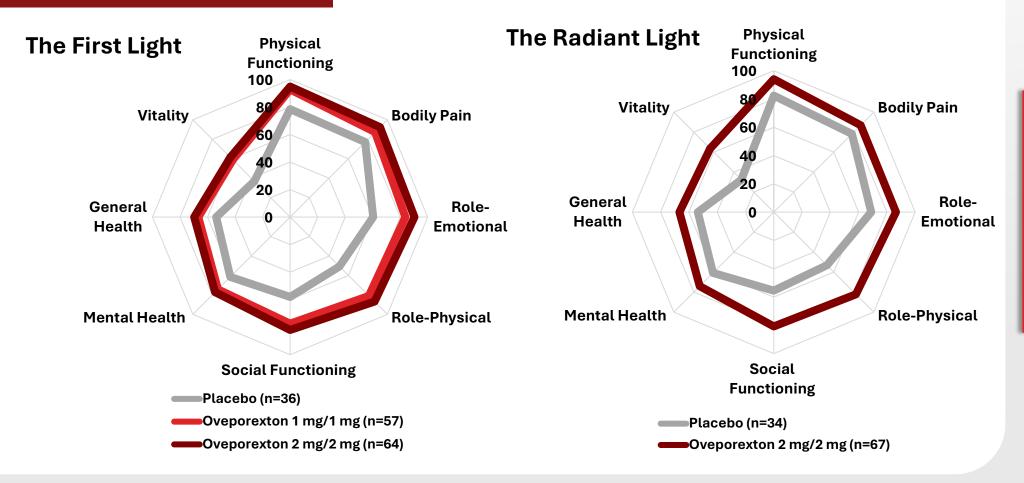
LS, least squares; PCS, Physical Component Summary; QoL, quality of life. The analysis used a linear mixed-effects model for repeated measures with placebo-based multiple imputation. P-values have been adjusted for multiplicity.

^{1.} Maski K, et al. J Clin Sleep Med 2021;17:1895-945. 2. Maruish ME. User's manual for the SF-36v2 Health Survey (3rd ed). Lincoln, RI: QualityMetric Incorporated; 2011.

Oveporexton improved SF-36 domain scores over multiple domains at 12 weeks versus placebo in both studies



Short Form-36 Survey (SF-36)



Changes from baseline to week 12 for nearly all SF-36 domain scores were nominally significant with oveporexton versus placebo (exploratory endpoint).

EuroQol-5 Dimension-5 Level (EQ-5D-5L)



EQ-5D-5L is a patient-reported assessment of quality of life and overall health status.

- 5 dimensions are rated on 5-point Likert scale, from "No problems" to "Unable/extreme."
- 1-item VAS scored from 0 (worst health) to 100 (best health).
- A preference-based index score can be generated from the 5 dimensions, yielding a score from 0 (death) to 1.0 (perfect health).
- Mean (SD) normative scores (US population): Index score, 0.85 (0.21); VAS, 80.4 (15.6).¹

	EQ-5D scores	Items, n		5 severity levels (dimension scores)*	
	Usual Activities	es 1		No problems	
	Self-care	1		Slight problems	
Dimension scores	Pain/Discomfort	1		Moderate problems	
	Mobility	1		Severe problems	
	Anxiety/Depression	1		Unable/extreme	
VAS	Self-rated Health	1	_		

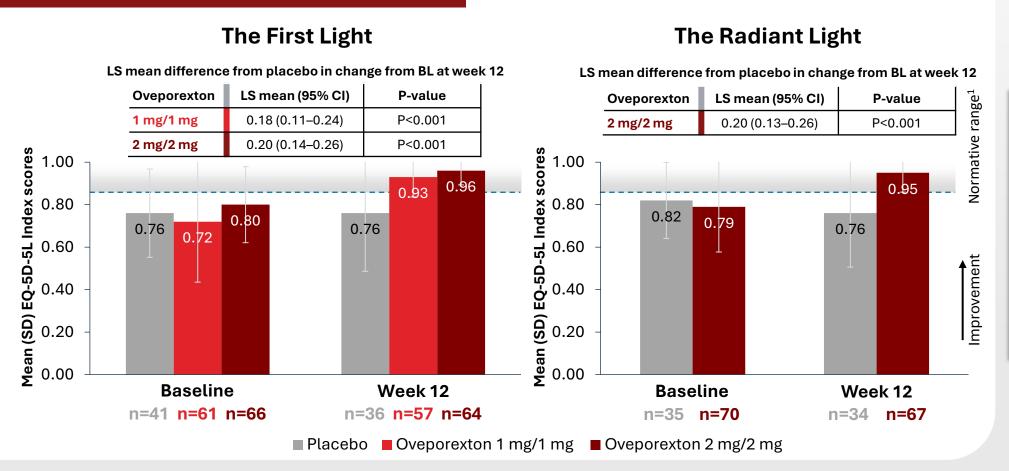
VAS, visual analog scale. *Categories for Anxiety/Depression domain: not anxious or depressed; slightly anxious or depressed; moderately anxious or depressed; severely anxious or depressed; extremely anxious or depressed. Categories for Pain/Discomfort domain: no pain/discomfort; slight pain/discomfort; moderate pain/discomfort; severe pain/discomfort; extreme pain/discomfort.

1. Jiang R, et al. *Qual Life Res* 2021;30:803-16.

Oveporexton significantly improved patients' EQ-5D-5L Index scores at 12 weeks versus placebo



EuroQol-5 Dimension-5 Level (EQ-5D-5L)



LS mean difference from placebo in change from baseline to week 12 in **EQ-5D-5L** Index score with oveporexton doses were nominally significant (all **P<0.001**).

Oveporexton treatment resulted in group mean EQ-5D-5L Index scores reaching normative values.

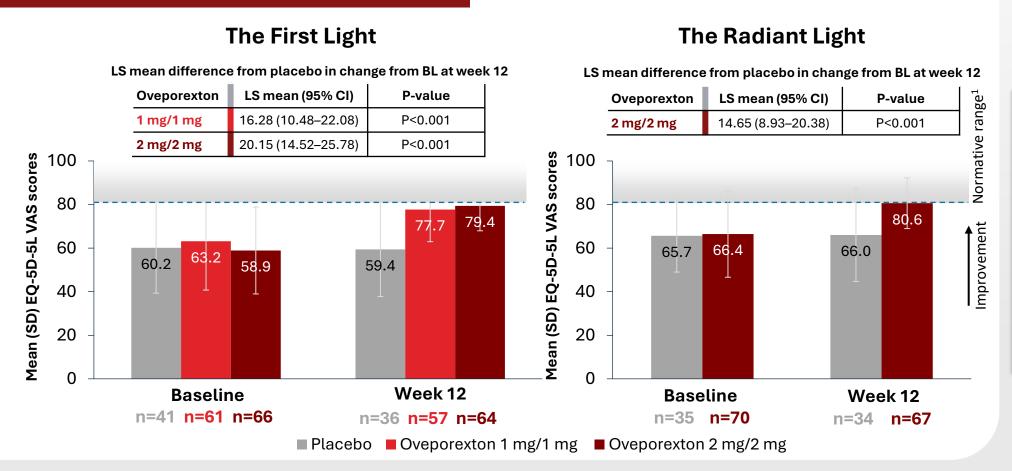
BL, baseline; LS, least squares. The analysis used a linear mixed-effects model for repeated measures with no imputation for missing data. P-values are nominal (not adjusted for multiplicity).

1. Jiang R, et al. Qual Life Res 2021;30:803-16.

Oveporexton significantly improved patients' self-rated EQ-5D-5L VAS scores at 12 weeks versus placebo



EuroQol-5 Dimension-5 Level (EQ-5D-5L)



LS mean difference from placebo in change from baseline to week 12 in **EQ-5D-5L VAS** score with oveporexton doses were nominally significant (all **P<0.001**).

Oveporexton treatment resulted in group mean EQ-5D-5L VAS scores approaching or achieving normative values.

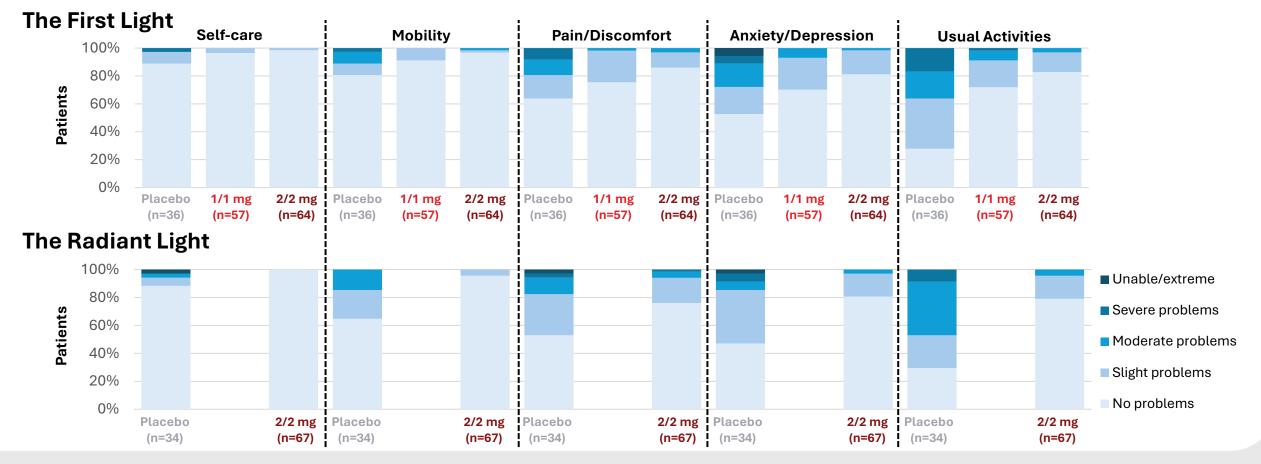
BL, baseline; LS, least squares; VAS, visual analog scale. The analysis used a linear mixed-effects model for repeated measures with no imputation for missing data. P-values are nominal (not adjusted for multiplicity).

^{1.} Jiang R, et al. Qual Life Res 2021;30:803-16.

Oveporexton improved patients' self-rated EQ-5D-5L domain scores at 12 weeks versus placebo



EuroQol-5 Dimension-5 Level (EQ-5D-5L)



EQ-5D-5L, EuroQol-5 Dimension-5 Level.

Categories for Anxiety/Depression domain: not anxious or depressed; slightly anxious or depressed; moderately anxious or depressed; severely anxious or depressed; extremely anxious or depressed. Categories for Pain/Discomfort domain: no pain/discomfort; slight pain/discomfort; moderate pain/discomfort; severe pain/discomfort; extreme pain/discomfort.

Oveporexton was generally safe and well tolerated



	The First Light			The Radiant Light	
	Placebo (n=41)	Oveporexton 1 mg/1 mg (n=60)	Oveporexton 2 mg/2 mg (n=66)	Placebo (n=35)	Oveporexton 2 mg/2 mg (n=70)
Any TEAE, n (%)	22 (53.7)	52 (86.7)	59 (89.4)	15 (42.9)	60 (85.7)
Mild	14 (34.1)	26 (43.3)	34 (51.5)	9 (25.7)	38 (54.3)
Moderate	7 (17.1)	24 (40.0)	23 (34.8)	5 (14.3)	20 (28.6)
Severe	1 (2.4)	2 (3.3)	2 (3.0)	1 (2.9)	2 (2.9)
Serious TEAE, n (%)	0	1 (1.7)	1 (1.5)	0	0
TEAEs related to study drug, n (%)	9 (22.0)	46 (76.7)	53 (80.3)	3 (8.6)	56 (80.0)
TEAEs leading to study drug discontinuation, n (%)	1 (2.4)	3 (5.0)	0	0	2 (2.9)
Most frequent TEAEs, n (%)					
Urinary frequency	3 (7.3)	32 (53.3)	36 (54.5)	1 (2.9)	43 (61.4)
Insomnia	0	32 (53.3)	38 (57.6)	1 (2.9)	40 (57.1)
Urinary urgency	1 (2.4)	9 (15.0)	12 (18.2)	0	10 (14.3)
Nasopharyngitis	6 (14.6)	6 (10.0)	10 (15.2)	0	2 (2.9)
Headache	5 (12.2)	4 (6.7)	10 (15.2)	2 (5.7)	3 (4.3)
Salivary hypersecretion	0	5 (8.3)	4 (6.1)	0	5 (7.1)

TEAE, treatment-emergent adverse event.

Conclusions



- In **The First Light and The Radiant Light phase 3 studies**, twice-daily 1 mg and 2 mg doses of oral oveporexton showed significant improvements in HRQoL over 12 weeks versus placebo in participants with NT1.
- Oveporexton was generally safe and well tolerated.
- These results are consistent with those from the phase 2 TAK-861-2001 study in participants with NT1 over 8 weeks.¹

These findings supplement primary and secondary results from the phase 3 trials and indicate that oveporexton, an oral orexin receptor 2 agonist, has the potential of transformational benefit to people with NT1.

EDS, excessive daytime sleepiness; HRQoL, health-related quality of life; NT1, narcolepsy type 1. **1.** Dauvilliers Y, et al. *N Engl J Med* 2025;392:1905-16.



Questions

