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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**FORM 8-K**

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**CURRENT REPORT**  
**Pursuant to Section 13 or 15(d)**  
**of the Securities Exchange Act of 1934**  
Date of Report (Date of earliest event reported): **October 2, 2023**

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**TREVENA, INC.**  
(Exact name of registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction of incorporation)

**001-36193**  
(Commission  
File No.)

**26-1469215**  
(IRS Employer  
Identification No.)

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**955 Chesterbrook Boulevard, Suite 110**  
**Chesterbrook, PA 19087**  
(Address of principal executive offices and zip code)

Registrant's telephone number, including area code: **(610) 354-8840**

**Not applicable**  
(Former name or former address, if changed since last report.)

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Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of each class</u>	<u>Trading Symbol(s)</u>	<u>Name of each exchange on which registered</u>
Common Stock, \$0.001 par value	TRVN	The Nasdaq Stock Market LLC

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter). Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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**Item 7.01 Regulation FD Disclosure**

On October 2, 2023, Trevena, Inc. (the “Company”) updated its website to include an updated corporate presentation deck. A copy of the updated corporate deck is attached hereto as Exhibit 99.1.

The information set forth on this Item 7.01 and furnished hereto as Exhibits 99.1 shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), and is not incorporated by reference into any of the Company’s filings under the Securities Act of 1933, as amended (the “Securities Act”) or the Exchange Act, whether made before or after the date hereof, except as shall be expressly set forth by specific reference in any such filing.

**Item 8.01 Other Events.**

On October 2, 2023, the Company issued a press release announcing completion of the initial analysis of the OLINVYK continuous respiratory monitoring data from the VOLITION study and presentation of the data at the American Society of Anesthesiologists. A copy of the press release is furnished hereto as Exhibit 99.2 and incorporated herein by reference.

The information set forth in this Item 8.01 and furnished hereto as Exhibit 99.2 shall not be deemed “filed” for purposes of Section 18 of the Exchange Act, or incorporated by reference in any filing under the Securities Act or the Exchange Act, whether made before or after the date of this Current Report, except as shall be expressly set forth by specific reference in such a filing.

**Item 9.01. Financial Statements and Exhibits.**(d) Exhibits

<b>Number</b>	<b>Description</b>
<a href="#">99.1</a>	<a href="#">Corporate Presentation Deck dated October 2, 2023</a>
<a href="#">99.2</a>	<a href="#">Press Release dated October 2, 2023</a>
104	The cover page from this Current Report on Form 8-K, formatted in Inline XBRL

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**SIGNATURES**

Pursuant to the requirements of the Exchange Act, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

**TREVENA, INC.**

Date: October 2, 2023

By: /s/ Barry Shin  
Barry Shin  
Senior Vice President & Chief Financial Officer

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 **Trevena**<sup>®</sup>  
INNOVATING FOR PATIENTS

Nasdaq: TRVN | October 2023



# Forward-Looking Statements












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To the extent that statements contained in this presentation are not descriptions of historical facts regarding Trevena, Inc. (the "Company" or "we"), they are forward-looking statements reflecting management's current beliefs and expectations. Forward-looking statements are subject to known and unknown risks, uncertainties, and other factors that may cause our or our industry's actual results, levels of activity, performance, or achievements to be materially different from those anticipated by such statements. You can identify forward-looking statements by terminology such as "anticipate," "believe," "estimate," "expect," "intend," "may," "might," "plan," "objective," "predict," "project," "suggest," "target," "potential," "will," "would," "could," "should," "continue," "ongoing," or the negative of these terms or similar expressions. Forward-looking statements contained in this presentation include, but are not limited to, (i) statements regarding the timing of anticipated clinical trials for our product candidates; (ii) the timing of receipt of clinical data for our product candidates; (iii) our expectations regarding the potential safety, efficacy, or clinical utility of our product candidates; (iv) the size of patient populations targeted by our product candidates and market adoption of our potential drugs by physicians and patients; (v) the timing or likelihood of regulatory filings and approvals; and (vi) our cash needs.

Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including: the commercialization of any approved drug product, the status, timing, costs, results and interpretation of our clinical trials or any future trials of any of our investigational drug candidates; the uncertainties inherent in conducting clinical trials; expectations for regulatory interactions, submissions and approvals, including our assessment of the discussions with the FDA or other regulatory agencies about any and all of our programs; uncertainties related to the commercialization of OLINVYK; available funding; uncertainties related to our intellectual property; other matters that could affect the availability or commercial potential of our therapeutic candidates; and other factors discussed in the Risk Factors set forth in our Annual Report on Form 10-K and Quarterly Reports on Form 10-Q filed with the Securities and Exchange Commission (SEC) and in other filings we make with the SEC from time to time. In addition, the forward-looking statements included in this presentation represent our views only as of the date hereof. We anticipate that subsequent events and developments may cause our views to change. However, while we may elect to update these forward-looking statements at some point in the future, we specifically disclaim any obligation to do so, except as may be required by law.

# Trevena's Experienced Leadership Team






## SENIOR MANAGEMENT

Carrie L. Bourdow	President & Chief Executive Officer	 
Mark A. Demitrack, M.D.	SVP, Chief Medical Officer	  
Patricia Drake	SVP, Chief Commercial Officer	 
Barry Shin	SVP, Chief Financial Officer	  
Robert T. Yoder	SVP, Chief Business Officer & Head of Commercial Operations	 

## BOARD OF DIRECTORS

Leon O. Moulder, Jr. Chairman	 	Marvin H. Johnson, Jr.	
Carrie L. Bourdow		Jake R. Nunn	 
Scott Braunstein, M.D.	  	Anne M. Phillips, M.D.	 
Mark Corrigan, M.D.	 	Barbara Yanni	

# Trevena: Innovative CNS Company

 <b>IV OLINVYK: Differentiated profile</b>	NCE approved for the management of acute pain in adults* Significant cost savings / differentiation shown in 'real world' post-approval studies
 <b>TRV045: Selective S1PR modulator</b>	<b>S1PR:</b> Validated target for blockbusters (fingolimod / siponimod / ozanimod / ponesimod) <b>TRV045:</b> Unique profile ( with potential for no lymphopenia) for new indications
 <b>TRV045: Compelling PoC Data</b>	Statistically significant, dose-dependent effect in validated model of neuropathic pain Statistically significant EEG changes and evidence of early reduction in cortical excitability
 <b>Novel CNS pipeline</b>	New mechanisms for acute / neuropathic pain, epilepsy, acute migraine, opioid use disorder NCEs targeting significant unmet needs
 <b>Financial position</b>	\$28.1M cash / equivalents / marketable securities @ 2Q 23 \$15M non-dilutive tranche received 3Q 23 (ex-US royalty based financing)

\*OLINVYK is indicated in adults for the management of acute pain severe enough to require an intravenous opioid analgesic and for whom alternative treatments are inadequate. Please see Important Safety Information including BOXED WARNING at the end of presentation.  
Full Prescribing Information at [www.OLINVYK.com](http://www.OLINVYK.com)

# Multiple Expected Catalysts

	PRE-CLIN	PHASE 1	PHASE 2	PHASE 3	NDA	POST-APPR	Highlights	
<b>OLINVYK®</b> New chemical entity (mu-opioid receptor)	IV acute pain*				APPROVED		<ul style="list-style-type: none"> <li>Commercial launch ongoing</li> </ul>	
		Cleveland Clinic / Wake Forest Baptist Health collab.				VOLITION clinical outcomes	<ul style="list-style-type: none"> <li>Real world differentiation</li> </ul>	
		Cleveland Clinic / Wake Forest Baptist Health collab.				ARTEMIS clinical outcomes	<ul style="list-style-type: none"> <li>\$8.8k / 1.4 day savings</li> </ul>	
						Respiratory physiology	<ul style="list-style-type: none"> <li>Data reported</li> </ul>	
						Cognitive function	<ul style="list-style-type: none"> <li>Data reported</li> </ul>	
<b>TRV045</b> Selective S1P receptor modulator		PoC – pain / target engagement					<ul style="list-style-type: none"> <li>Data reported</li> </ul>	
		PoC - epilepsy					<ul style="list-style-type: none"> <li>Data reported</li> </ul>	
		Seiz. Prev	NIH / ETSP investigating potential disease modifying role					<ul style="list-style-type: none"> <li>Data expected 2H 23</li> </ul>
		Inf. Spasm	Investigating potential in rare pediatric disorder					<ul style="list-style-type: none"> <li>Data expected 2H 23</li> </ul>
<b>TRV734</b> G-protein selective agonist (mu-opioid receptor)		Opioid use disorder		NIH / NIDA collab.			<ul style="list-style-type: none"> <li>POC study ongoing</li> </ul>	

\*OLINVYK is indicated in adults for the management of acute pain severe enough to require an intravenous opioid analgesic and for whom alternative treatments are inadequate. Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at [www.OLINVYK.com](http://www.OLINVYK.com)



TRV045 and TRV734 are investigational products and are not approved by the FDA or any other regulatory agency  
 NDA = New Drug Application; PoC = Proof-of-Concept



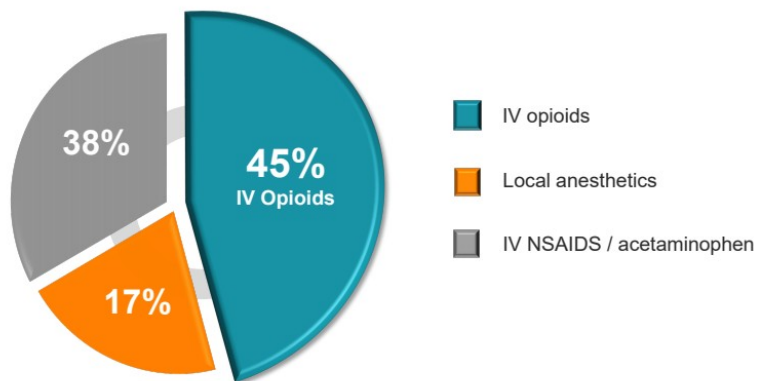
## OLINVYK Overview

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# Large Market Opportunity – Acute Pain

US injectable analgesic  
hospital market unit volume<sup>1</sup>



45M patients receive IV opioids  
annually to treat acute pain<sup>1</sup>

IV opioids have unrivalled  
analgesic efficacy

Top surgeries:  
Total knee arthroplasty,  
colectomy, hernia repair,  
spine fusion, C-section<sup>2</sup>

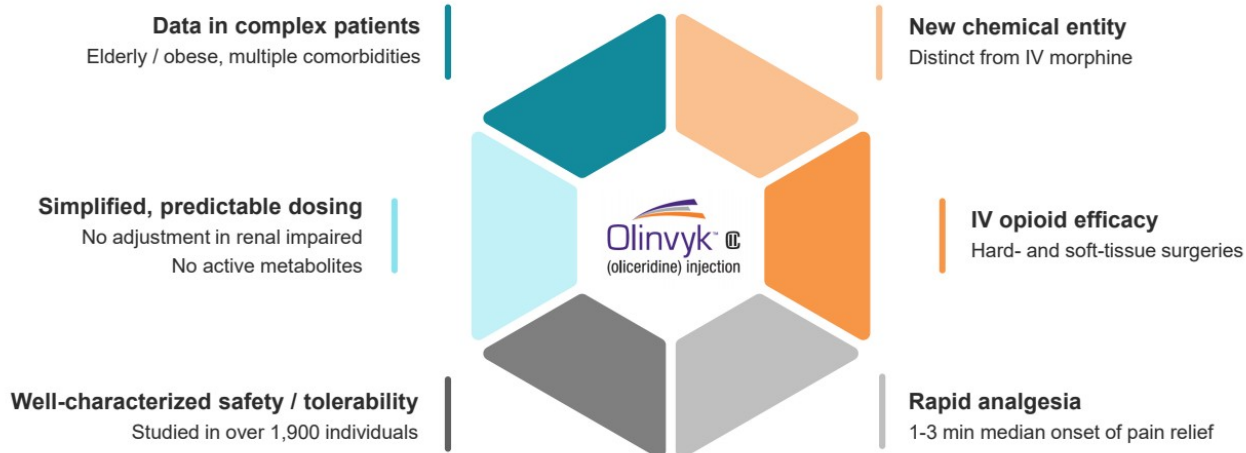
\*OLINVYK is indicated in adults for the management of acute pain severe enough to require an intravenous opioid analgesic and for whom alternative treatments are inadequate. Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at [www.OLINVYK.com](http://www.OLINVYK.com). Opioids are associated with serious, potentially life-threatening adverse reactions.



NSAIDs = nonsteroidal anti-inflammatory drugs. 1) IMS MIDAS sales audit 2017; IV NSAIDs and Ofirmev®. 2) Definitive database, and National Vital Statistics report, CDC 2018.

# OLINVYK: Differentiated Profile for Acute Pain

OLINVYK is indicated in adults for the management of acute pain severe enough to require an intravenous opioid analgesic and for whom alternative treatments are inadequate

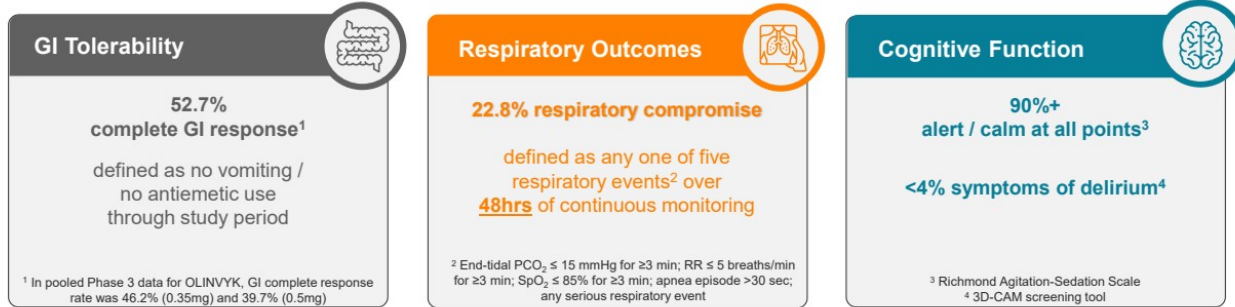


Please see Important Safety Information including BOXED WARNING at the end of presentation.  
Full Prescribing Information at [www.OLINVYK.com](http://www.OLINVYK.com).

# VOLITION Clinical Outcomes Study w/ Cleveland Clinic

Further characterizes respiratory, GI and cognitive outcomes

- Open-label, multi-site study led by experts at Cleveland Clinic and Wake Forest Baptist Health
- N = 203 adults undergoing major non-cardiac surgery treated with IV OLINVYK



As reflected in the OLINVYK label, nausea and vomiting were two of the most common AEs reported in the controlled clinical trials

As with all opioids, serious, life-threatening, or fatal respiratory depression may occur in patients treated with OLINVYK

Sedation is an established risk of opioids including OLINVYK



Please see Important Safety Information including BOXED WARNING at the end of presentation  
Full Prescribing Information at [www.OLINVYK.com](http://www.OLINVYK.com)

# ARTEMIS EMR-Based Clinical Outcomes Study

Statistically significant differentiation on a range of meaningful endpoints

- 201 OLINVYK-treated patients at Cleveland Clinic and Wake Forest Baptist Health VOLITION sites
- 982 matched patients undergoing similar surgical procedures, treated with other IV opioids, at same sites during VOLITION study

	Matched Patients Treated w/ other IV Opioids (N=982)		OLINVYK-Treated VOLITION Patients (N=201)	
Cost per Admission (avg)	\$45.9k	\$8.8k savings	\$37.1k	P<0.0001
Hospital Length of Stay (avg)	7.1 days	1.4 days shorter	5.7 days	P<0.0001
<b>Numerical Pain Score (1-10)</b>				
24hr mean score	4.5	15.0% lower score	3.9	P<0.0001
48hr mean score	4.3	14.8% lower score	3.7	P<0.0001

**As with all opioids, addiction, abuse and misuse, which can lead to overdose and death may occur in patients treated with OLINVYK as indicated in the boxed warning**

**EMR analysis does not provide definitive data of group differences as seen in a prospectively randomized study**



Please see Important Safety Information including BOXED WARNING at the end of presentation  
Full Prescribing Information at [www.OLINVYK.com](http://www.OLINVYK.com)

# OLINVYK: Ease of Dosing and Administration

3 vials allow for flexible and tailored IV dosing

- **Bolus Dosing:** 1 mg and 2 mg vials (single dose)
- **PCA Dosing:** 30 mg vial (single patient use)
- **OLINVYK 1 mg  $\approx$  morphine 5 mg<sup>1</sup>**

27 mg cumulative daily dose limit

Do not administer single doses greater than 3 mg

No refrigeration / reconstitution



1 mg / 1mL



2 mg / 2mL



30 mg / 30 mL

WAC:

\$17.50

\$25.75

\$110.00

~\$100 / day

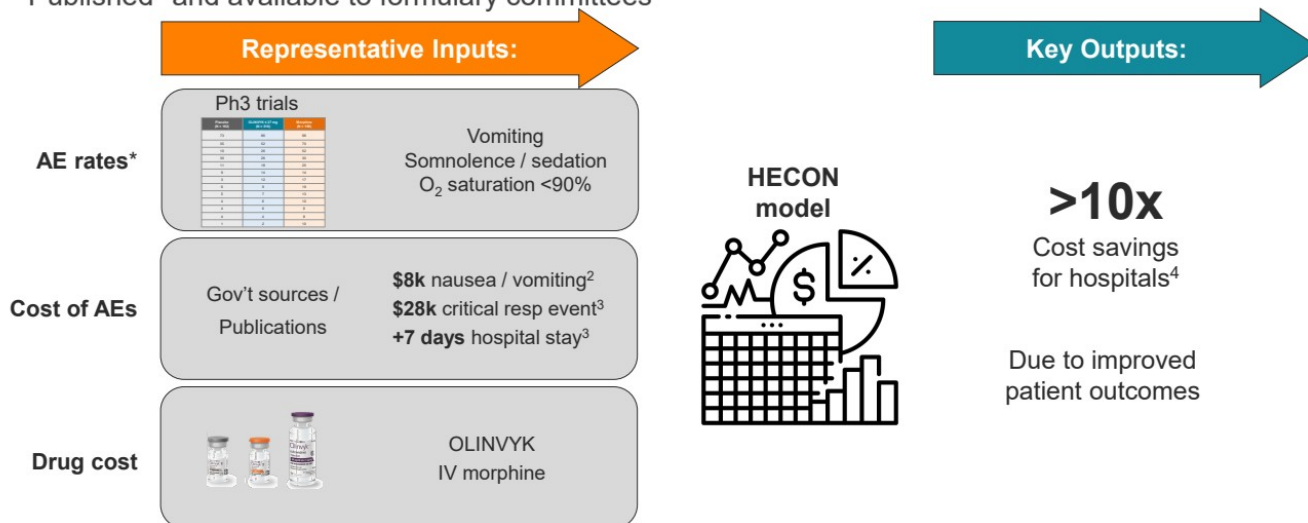
(estimated avg cost across procedures)

Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at [www.OLINVYK.com](http://www.OLINVYK.com).

1) For an initial dose. PCA = Patient-Controlled Analgesia

# OLINVYK vs IV Morphine Health Economic Models

Published<sup>1</sup> and available to formulary committees

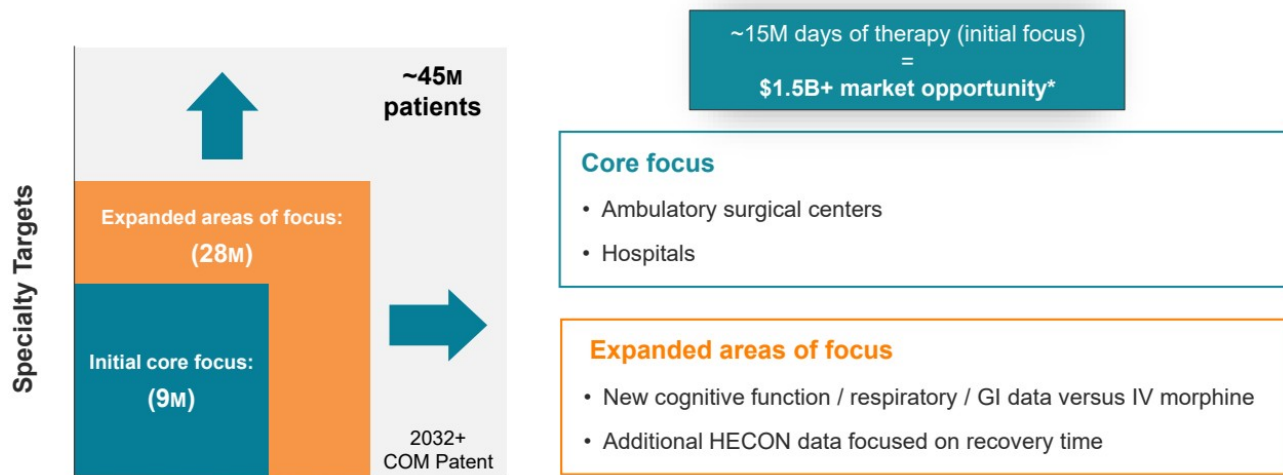


\* As stated in the label these data are not an adequate basis for comparison of rates between OLINVYK treatment group and the morphine treatment group. The OLINVYK and morphine dosing regimens studied are not considered equipotent.

1) Simpson KN, et al., J Comp Eff Res, 2021; 10:1107-1119 and Simpson KN, et al. Expert Rev Pharmacoecon Outcomes Res; 2022

2) Oderda, GM, J Pain Palliative Care Pharm, 2019, data based on 5 surgical procedure categories including Cardiothoracic / vascular, General / Colorectal, Ob / Gyn, Orthopedic, and Urologic. 3) Overdyk FJ, PLoS One, 2016. More conservative inputs were used in the model. 4) Calculated based on total costs of Tx and average total costs of care. Image: flaticon.com.

# OLINVYK: Significant Opportunity in Acute Pain Market



## Patient & Procedure Risk

Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at [www.OLINVYK.com](http://www.OLINVYK.com).



Source: Definitive Healthcare; American Hospital Association.

\*Assumes ~\$100 / day price for OLINVYK  
2032 composition of matter patent expiration does not include potential patent extensions.





**TRV045**  
**S1P Receptor Modulator**  
**Novel MOA for Diabetic Neuropathic Pain**

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# S1P<sub>1</sub> Receptor – Novel Target for CNS Indications

S1P<sub>1</sub> receptors are highly expressed on key CNS cells involved in neuroinflammation

Potential therapeutic role in seizures, epileptogenesis and pain signaling

## Neuropathic pain

- Inhibits pain sensation<sup>1</sup>
- Inhibits excitatory neuronal signaling<sup>2</sup>



## Epilepsy

- Neuroprotective effects<sup>3</sup>
- Modulates BBB permeability, anti-inflammatory effects<sup>4,5</sup>



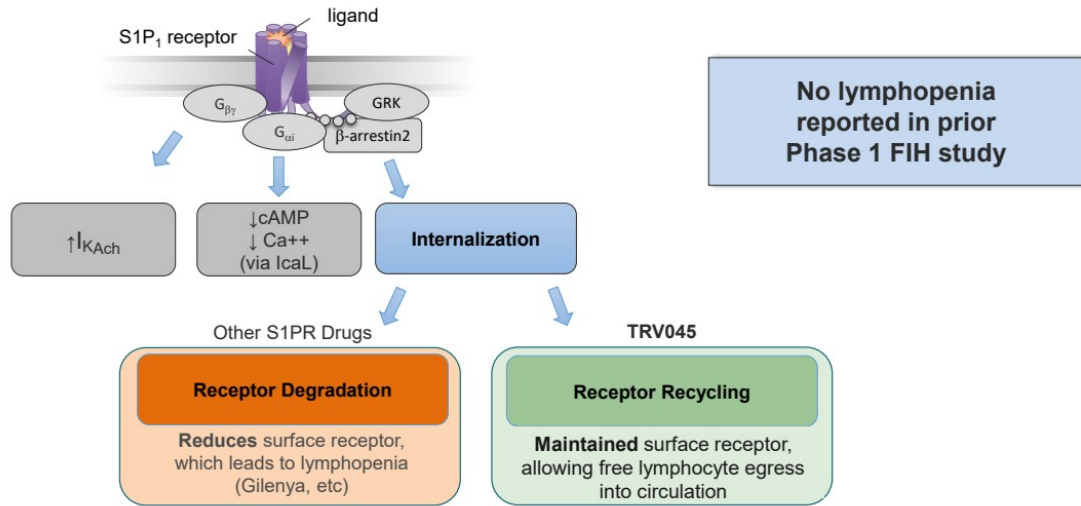
Existing S1PR-targeted drugs, however, are ill-suited for CNS indications due to known:

Lymphopenia  
Cardiac AEs

Pulmonary AEs  
Ophthalmologic AEs

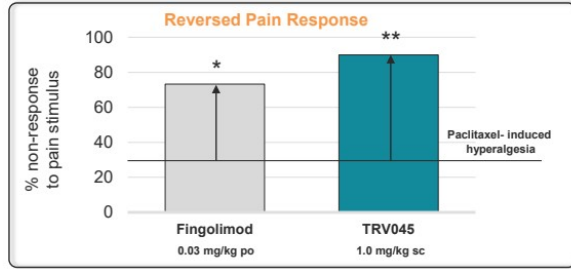
# TRV045 MOA: Rapid Receptor Recycling

Maintained (rather than degraded) S1P receptors on cell surface

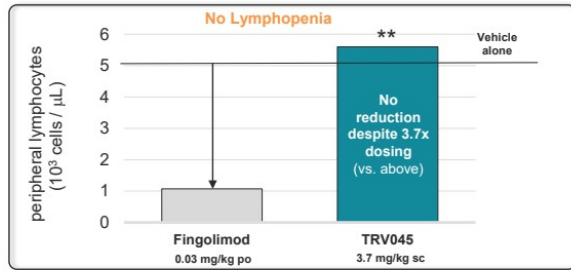


# TRV045 Efficacy in Nonclinical Chronic Pain Models (w/ no Lymphopenia)

Mouse chemotherapy-induced peripheral neuropathy (CIPN) model



Reversed neuropathic pain...



...with no lymphopenia

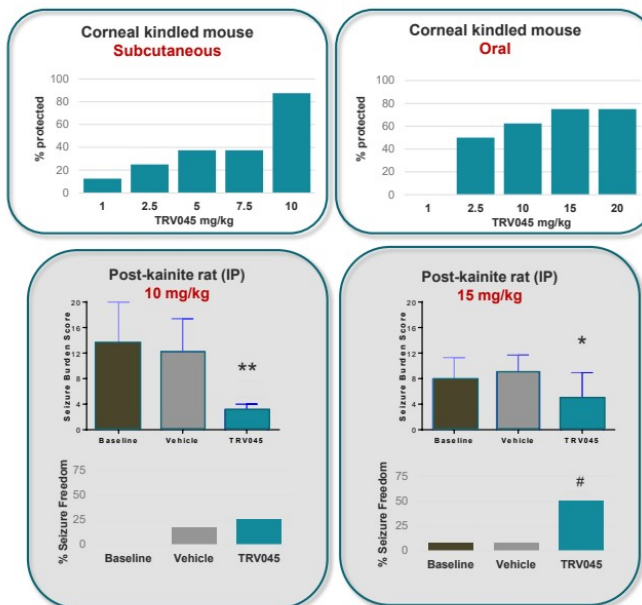
Source: Trevena data on file



1) CIPN mouse model: Paclitaxel 6 mg/kg, i.p. on Days 1, 3, 5, 7. Hyperalgesia measured as % non-response to 0.4 g Von Frey filament vs. baseline, tested 30' after dosing on Day 13. Lymphocytes measured after 3 days of dosing. Data are mean ± s.e.m. n=5-7 mice/group. \*p<0.05 or \*\*p<0.01 vs. control

# TRV045 Demonstrates Efficacy in Nonclinical Epilepsy Models

- NIH-supported Epilepsy Therapy Screening Program
- Acute seizure protection in max. electroshock model
  - Replicated in 3 independent experiments using either subcutaneous or oral administration
- Efficacy demonstrated in two different preclinical models of epilepsy (*data shown at right*)
  - Corneal-kindled seizure model (SC, PO)
    - Dose-dependent protection in seizure risk across two studies
  - Post-kainite spontaneous recurrent seizure model (IP\*)
    - Dose-dependent reduction in seizure burden and increase in seizure freedom endpoints across two studies



\* p<0.05 v vehicle, \*\* p<0.05 v baseline; Wilcoxon rank sum  
# p<0.05 v baseline and vehicle; Fisher's exact test

# TRV045 Phase 1 Study – Safety / Tolerability / PK

Randomized, double-blinded, placebo-controlled study  
3-parts: single dose (n=53), food effect (n=27), multiple dose (n=9)

## Well Tolerated

- Favorable tolerability profile with no SAEs

## Target Exposure

- Calculated free plasma concentrations exceeded targeted efficacy range<sup>1</sup>

## Attractive PK Profile

- Half-life consistent with anticipated once-daily dosing

## Highly Differentiated

- No lymphopenia and no reported cardiac / pulmonary / ophthalmologic AEs (AEs commonly associated with currently marketed S1P-targeted compounds)

Targeted CNS proof-of-concept study initiated

## POC Studies: Target Engagement / TMS

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### Target Engagement Study

Randomized, double-blind, placebo-controlled, 4x cross-over  
(n=25 subjects)

Placebo or TRV045  
(50/150/300mg)

PainCart endpoints

### TMS Study

Randomized, double-blind, placebo-controlled, multiple dose, 2x cross-over  
(n=25 subjects)

Placebo or TRV045  
(250mg / four days)

EMG / EEG endpoints

Results confirm activity of central action and support advancement for neuropathic pain and other CNS indications



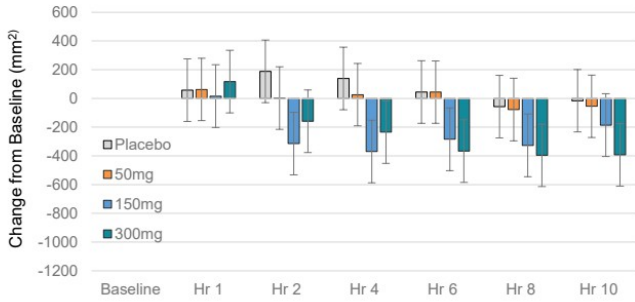
# TE Study: Significantly Reduced Mechanical Allodynia

1% capsaicin-treated dominant volar forearm – Von Frey filament allodynic area (CFB, mm<sup>2</sup>)

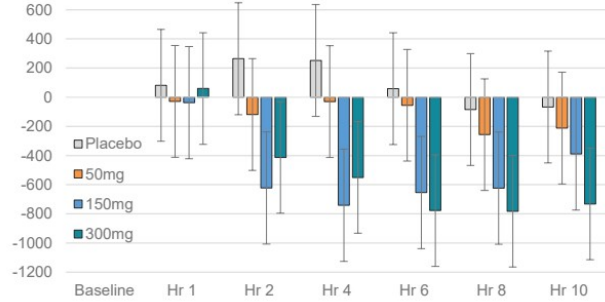
300mg TRV045 v Placebo; P=0.0023  
150mg TRV045 v Placebo; P=0.0022

300mg TRV045 v Placebo; P=0.0001  
150mg TRV045 v Placebo; P=0.0002

### Secondary Allodynic Area



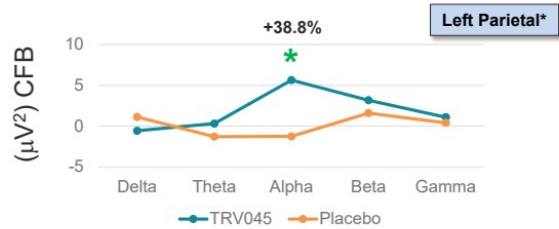
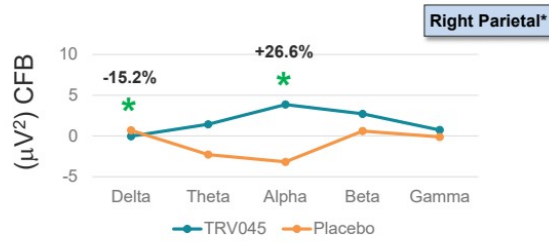
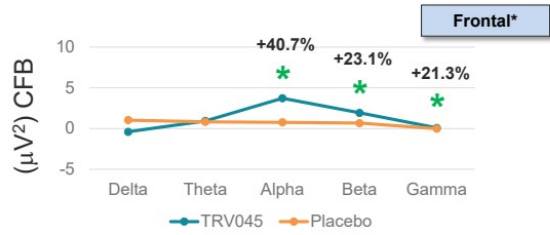
### Total Allodynic Area





# TMS Study: Effect on Brain Wave Activity

Resting qEEG Power Spectral Analysis – Eyes Open, Day 4 TRV045 v Placebo All Bands



**Alpha:** Significant *increase* across all regions  
**Beta/Gamma:** Significant *increase* in frontal region  
**Delta:** Significant *reduction* in right parietal region  
**Theta:** No significant difference

associated with alertness / arousal  
memory / learning  
 associated with sedation / sleep

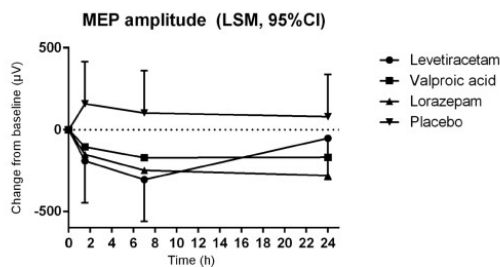
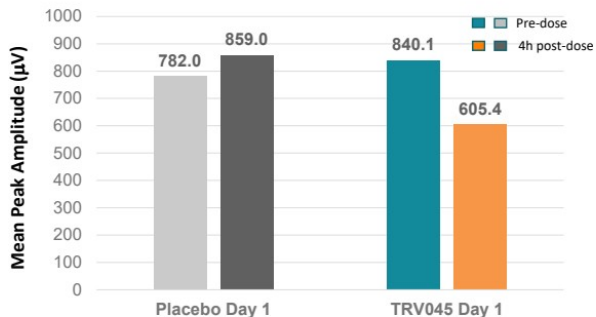


\* Denotes pairwise comparison  $P < 0.05$   
 Frontal = Fz-Cz; left parietal = Pz-O1; right parietal = PzO2  
 CFB = change from baseline; Source: Trevina data on file

Mantini, D, et al. PNAS (2007); Beste, C, et al. Nature Comm Biol (2023);  
 Edwards, DJ and Trujillo, LT, Brain Sci (2021); Holler, Y, et al., CNS Drugs (2018)<sup>22</sup>

# TMS Study: Effect on Cortical Excitability vs AEDs\*

Mean change from baseline in motor-evoked potential (MEP) measured by peak-to-peak amplitude



Estimated difference vs placebo:

- Levetiracetam: -378.4 µV, 95% CI -644.3 to -112.5; P<0.01
- Valproic acid: -268.8 µV, 95% CI -532.9 to -4.6; P=0.047
- Lorazepam: -330.7.4 µV, 95% CI -595.6 to -65.8; P=0.02

Est. difference TRV045 v placebo (not stat. sig.)

- -304.14 µV, 95% CI -688.19 to 79.919 (P=0.1182)

Mean change from baseline in MEP on Day 1 with TRV045 comparable in magnitude to MEP reductions seen with known AEDs, including levetiracetam, valproic acid, and lorazepam, performed in the same laboratory



\* AEDs = Antiepileptic drugs  
Source: Trevena data on file

# Overall TRV045 POC Study Conclusions

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TRV045 Proof-of-Concept Study Program

Taken together, these two POC studies provide strong support and direction for future development of TRV045

- **Target Engagement.** Demonstrated CNS penetration and target engagement
- **Neuropathic Pain.** Statistically significant, dose-dependent effect in validated model of neuropathic pain
- **EEG Spectral Power.** Statistically significant **increases** in brain waves (alpha, beta, gamma) associated with arousal, alertness, cognitive processing, learning and memory  
  
Statistically significant **decrease** in delta brain waves, and **no significant change** in theta brain waves, which are both associated with sedation / sleep
- **Cortical Excitability.** Promising evidence of early reduction in cortical excitability

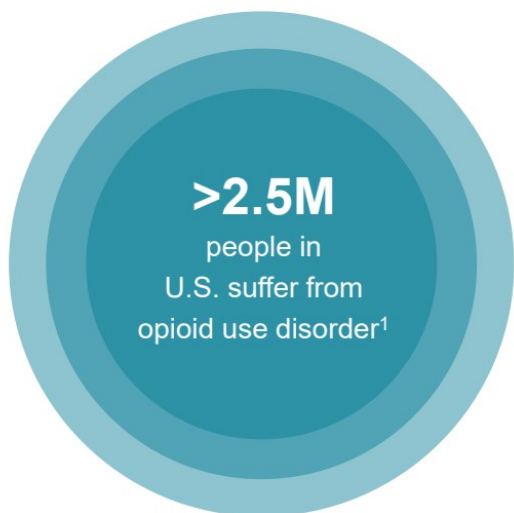
# TRV734: Maintenance Therapy for Opioid Use Disorder

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# TRV734: Maintenance Therapy for Opioid Use Disorder

Selective agonism at  $\mu$  receptor: nonclinical evidence of improved tolerability








## Ongoing collaboration with National Institute on Drug Abuse (NIDA)

NIDA study demonstrated reduced drug-seeking behavior in animal model of relapse<sup>2</sup>

## NIDA-funded proof-of-concept patient study initiated

- Randomized, double-blind, placebo- and positive-controlled study
- N = ~50 opioid-dependent patients undergoing stable methadone maintenance therapy
- **Primary endpoint:** suppression of withdrawal symptoms as measured by the Subjective Opioid Withdrawal Scale
- **Secondary outcomes:** assessments of safety, tolerability, and neurocognitive changes

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 <b>TRV045: Selective S1PR modulator</b>	<b>S1PR:</b> Validated target for blockbusters (fingolimod / siponimod / ozanimod / ponesimod) <b>TRV045:</b> Unique profile ( with potential for no lymphopenia) for new indications
 <b>TRV045: Compelling PoC Data</b>	Statistically significant, dose-dependent effect in validated model of neuropathic pain Statistically significant EEG changes and evidence of early reduction in cortical excitability
 <b>Novel CNS pipeline</b>	New mechanisms for acute / neuropathic pain, epilepsy, acute migraine, opioid use disorder NCEs targeting significant unmet needs
 <b>Financial position</b>	\$28.1M cash / equivalents / marketable securities @ 2Q 23 \$15M non-dilutive tranche received 3Q 23 (ex-US royalty based financing)

\*OLINVYK is indicated in adults for the management of acute pain severe enough to require an intravenous opioid analgesic and for whom alternative treatments are inadequate. Please see Important Safety Information including BOXED WARNING at the end of presentation.  
Full Prescribing Information at [www.OLINVYK.com](http://www.OLINVYK.com)

# IMPORTANT SAFETY INFORMATION

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**WARNING: ADDICTION, ABUSE, AND MISUSE; LIFE-THREATENING RESPIRATORY DEPRESSION; NEONATAL OPIOID WITHDRAWAL SYNDROME; and RISKS FROM CONCOMITANT USE WITH BENZODIAZEPINES OR OTHER CENTRAL NERVOUS SYSTEM (CNS) DEPRESSANTS**

**Addiction, Abuse, and Misuse**

OLINVYK exposes patients and other users to the risks of opioid addiction, abuse, and misuse, which can lead to overdose and death. Assess each patient's risk before prescribing OLINVYK, and monitor all patients regularly for the development of behaviors or conditions.

**Life-Threatening Respiratory Depression**

Serious, life-threatening, or fatal respiratory depression may occur with use of OLINVYK.

Monitor for respiratory depression, especially during initiation of OLINVYK or following a dose increase.

**Neonatal Opioid Withdrawal Syndrome**

Prolonged use of OLINVYK during pregnancy can result in neonatal opioid withdrawal syndrome, which may be life-threatening if not recognized and treated, and requires management according to protocols developed by neonatology experts. If opioid use is required for a prolonged period in a pregnant woman, advise the patient of the risk of neonatal opioid withdrawal syndrome and ensure that appropriate treatment will be available.

**Risk From Concomitant Use With Benzodiazepines or Other CNS Depressants**

Concomitant use of opioids with benzodiazepines or other CNS depressants, including alcohol, may result in profound sedation, respiratory depression, coma, and death. Reserve concomitant prescribing for use in patients for whom alternative treatment options are inadequate; limit dosages and durations to the minimum required; and follow patients for signs and symptoms of respiratory depression and sedation.

**Limitations of Use**

Because of the risks of addiction, abuse, and misuse with opioids, even at recommended doses, reserve OLINVYK for use in patients for whom alternative treatment options [e.g., non-opioid analgesics or opioid combination products]:

- Have not been tolerated, or are not expected to be tolerated
- Have not provided adequate analgesia, or are not expected to provide adequate analgesia.

The cumulative total daily dose should not exceed 27 mg, as total daily doses greater than 27 mg may increase the risk for QTc interval prolongation.

**CONTRAINDICATIONS**

OLINVYK is contraindicated in patients with:

- Significant respiratory depression
- Acute or severe bronchial asthma in an unmonitored setting or in the absence of resuscitative equipment
- Known or suspected gastrointestinal obstruction, including paralytic ileus
- Known hypersensitivity to oliceridine (e.g., anaphylaxis)

**WARNINGS AND PRECAUTIONS**

- OLINVYK contains oliceridine, a Schedule II controlled substance, that exposes users to the risks of addiction, abuse, and misuse. Although the risk of addiction in any individual is unknown, it can occur in patients appropriately prescribed OLINVYK. Assess risk, counsel, and monitor all patients receiving opioids.
- Serious, life-threatening respiratory depression has been reported with the use of opioids, even when used as recommended, especially in patients with chronic pulmonary disease, or in elderly, cachectic and debilitated patients. The risk is greatest during initiation of OLINVYK therapy, following a dose increase, or when used with other drugs that depress respiration. Proper dosing of OLINVYK is essential, especially when converting patients from another opioid product to avoid overdose. Management of respiratory depression may include close observation, supportive measures, and use of opioid antagonists, depending on the patient's clinical status.
- Opioids can cause sleep-related breathing disorders including central sleep apnea (CSA) and sleep-related hypoxemia with risk increasing in a dose-dependent fashion. In patients who present with CSA, consider decreasing the dose of opioid using best practices for opioid taper.

**INDICATIONS AND USAGE**

OLINVYK is a new chemical entity indicated in adults for the management of acute pain severe enough to require an intravenous opioid analgesic and for whom alternative treatments are inadequate.





## WARNINGS AND PRECAUTIONS

- Prolonged use of opioids during pregnancy can result in withdrawal in the neonate that may be life-threatening. Observe newborns for signs of neonatal opioid withdrawal syndrome and manage accordingly. Advise pregnant women using OLINVYK for a prolonged period of the risk of neonatal opioid withdrawal syndrome and ensure that appropriate treatment will be available.
- Profound sedation, respiratory depression, coma, and death may result from the concomitant use of OLINVYK with benzodiazepines or other CNS depressants (e.g., non-benzodiazepine sedatives/hypnotics, anxiolytics, tranquilizers, muscle relaxants, general anesthetics, antipsychotics, other opioids, or alcohol). Because of these risks, reserve concomitant prescribing of these drugs for use in patients for whom alternative treatment options are inadequate, prescribe the lowest effective dose, and minimize the duration.
- OLINVYK was shown to have mild QTc interval prolongation in thorough QT studies where patients were dosed up to 27 mg. Total cumulative daily doses exceeding 27 mg per day were not studied and may increase the risk for QTc interval prolongation. Therefore, the cumulative total daily dose of OLINVYK should not exceed 27 mg.
- Increased plasma concentrations of OLINVYK may occur in patients with decreased Cytochrome P450 (CYP) 2D6 function or normal metabolizers taking moderate or strong CYP2D6 inhibitors; also in patients taking a moderate or strong CYP3A4 inhibitor, in patients with decreased CYP2D6 function who are also receiving a moderate or strong CYP3A4 inhibitor, or with discontinuation of a CYP3A4 inducer. These patients may require less frequent dosing and should be closely monitored for respiratory depression and sedation at frequent intervals. Concomitant use of OLINVYK with CYP3A4 inducers or discontinuation of a moderate or strong CYP3A4 inhibitor can lower the expected concentration, which may decrease efficacy, and may require supplemental doses.
- Cases of adrenal insufficiency have been reported with opioid use (usually greater than one month). Presentation and symptoms may be nonspecific and include nausea, vomiting, anorexia, fatigue, weakness, dizziness, and low blood pressure. If confirmed, treat with physiologic replacement doses of corticosteroids and wean patient from the opioid.
- OLINVYK may cause severe hypotension, including orthostatic hypotension and syncope in ambulatory patients.
- There is increased risk in patients whose ability to maintain blood pressure has already been compromised by a reduced blood volume or concurrent administration of certain CNS depressant drugs (e.g., phenothiazines or general anesthetics). Monitor these patients for signs of hypotension. In patients with circulatory shock, avoid the use of OLINVYK as it may cause vasodilation that can further reduce cardiac output and blood pressure.
- Avoid the use of OLINVYK in patients with impaired consciousness or coma. OLINVYK should be used with caution in patients who may be susceptible to the intracranial effects of CO<sub>2</sub> retention, such as those with evidence of increased intracranial pressure or brain tumors, as a reduction in respiratory drive and the resultant CO<sub>2</sub> retention can further increase intracranial pressure. Monitor such patients for signs of sedation and respiratory depression, particularly when initiating therapy.
- As with all opioids, OLINVYK may cause spasm of the sphincter of Oddi, and may cause increases in

serum amylase. Monitor patients with biliary tract disease, including acute pancreatitis, for worsening symptoms.

- There is increased risk in patients whose ability to maintain blood pressure has already been compromised by a reduced blood volume or concurrent administration of certain CNS depressant drugs (e.g., phenothiazines or general anesthetics). Monitor these patients for signs of hypotension. In patients with circulatory shock, avoid the use of OLINVYK as it may cause vasodilation that can further reduce cardiac output and blood pressure.
- Avoid the use of OLINVYK in patients with impaired consciousness or coma. OLINVYK should be used with caution in patients who may be susceptible to the intracranial effects of CO<sub>2</sub> retention, such as those with evidence of increased intracranial pressure or brain tumors, as a reduction in respiratory drive and the resultant CO<sub>2</sub> retention can further increase intracranial pressure. Monitor such patients for signs of sedation and respiratory depression, particularly when initiating therapy.
- As with all opioids, OLINVYK may cause spasm of the sphincter of Oddi, and may cause increases in serum amylase. Monitor patients with biliary tract disease, including acute pancreatitis, for worsening symptoms.
- OLINVYK may increase the frequency of seizures in patients with seizure disorders and may increase the risk of seizures in vulnerable patients. Monitor patients with a history of seizure disorders for worsened seizure control.
- Do not abruptly discontinue OLINVYK in a patient physically dependent on opioids. Gradually taper the dosage to avoid a withdrawal syndrome and return of pain. Avoid the use of mixed agonist/antagonist (e.g., pentazocine, nalbuphine, and butorphanol) or partial agonist (e.g., buprenorphine) analgesics in patients who are receiving OLINVYK, as they may reduce the analgesic effect and/or precipitate withdrawal symptoms.
- OLINVYK may impair the mental or physical abilities needed to perform potentially hazardous activities such as driving a car or operating machinery.
- Although self-administration of opioids by patient-controlled analgesia (PCA) may allow each patient to individually titrate to an acceptable level of analgesia, PCA administration has resulted in adverse outcomes and episodes of respiratory depression. Health care providers and family members monitoring patients receiving PCA analgesia should be instructed in the need for appropriate monitoring for excessive sedation, respiratory depression, or other adverse effects of opioid medications.

## ADVERSE REACTIONS

Adverse reactions are described in greater detail in the Prescribing Information.

The most common (incidence  $\geq 10\%$ ) adverse reactions in Phase 3 controlled clinical trials were nausea, vomiting, dizziness, headache, constipation, pruritus, and hypoxia.

PLEASE see [www.OLINVYK.com](http://www.OLINVYK.com) for full prescribing information including **BOXED** warning and important safety information

**Trevena Announces Completion of Initial Analysis of OLINZYK Continuous Respiratory Monitoring Data from VOLITION Study and Presentation at American Society of Anesthesiologists Conference**

*Continuous respiratory monitoring data for ~200 complex surgical patients treated with IV OLINZYK at Cleveland Clinic and Wake Forest Baptist Health in the VOLITION study provides insights into respiratory compromise rates*

*VOLITION data to be presented at the American Society of Anesthesiologists Meeting October 13-17, 2023*

*Company will also participate in the BIO Investor Forum October 17-18, 2023*

CHESTERBROOK, Pa., October 2, 2023 (GLOBE NEWSWIRE) – Trevena, Inc. (Nasdaq: TRVN), a biopharmaceutical company focused on the development and commercialization of novel medicines for patients with central nervous system (CNS) disorders, today announced completion of initial analysis of OLINZYK continuous respiratory monitoring data from the VOLITION study.

The VOLITION study, a real-world, open-label, multi-site study, assessed the potential impact of OLINZYK on respiratory, gastrointestinal (GI), and cognitive function outcomes in the postoperative setting. The Company previously announced GI and cognition data from the study.

“We are pleased to announce completion of the initial analysis of respiratory data from the ~200 patient VOLITION study generated at Cleveland Clinic and Wake Forest Baptist Health,” said Carrie Bourdow, President and CEO of Trevena. “We are excited to present these new results at the upcoming ASA meeting in October.”

- ***VOLITION Study Data, Including Continuous Respiratory Monitoring Analysis, to be Presented at ASA in San Francisco from October 13-17, 2023.*** The Company has three abstracts accepted for presentation at ASA, which will be held in San Francisco from October 13-17. One abstract was selected for an oral presentation as a top research abstract. The oral presentation titled “*Antinociception versus Neurocognitive Effect of Biased mu-Opioid Receptor Oliceridine versus Morphine: Utility Function Analyses*” will be part of the *Best of Abstracts: Clinical Science* feature session. The abstracts are embargoed until the conclusion of the meeting and at which time they will be available at <https://www.trevena.com/publications>.
  - ***Company to Participate in the BIO Investor Forum in San Francisco from October 17-18, 2023.*** Members of the Trevena management team will be participating in 1x1 meetings and encourage investors to schedule a time during the conference.
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### *VOLITION Study Details*

VOLITION is a real-world, open-label, multi-site, post-approval clinical outcomes study in 203 adult patients undergoing major non-cardiac surgery (197 patients with evaluable respiratory data). IV OLINVYK was dosed as the first-line analgesic during post-operative care, with a 1.5mg loading dose of OLINVYK at surgical closure, and 0.35mg to 0.5mg of OLINVYK, as needed, administered with a PCA device, with a 6-minute lockout period. Additional boluses ( $\leq 1$  mg) of OLINVYK were available if needed as soon as 15 minutes after the initial 1.5 mg loading dose.

Patients in the VOLITION study wore a device that continuously monitored physiologic status including heart rate, respiratory rate and indices of oxygen and expired carbon dioxide, with data from this monitoring collected in a manner blinded to the clinical staff caring for the patient. The continuous monitoring methods used in the VOLITION study were modeled after the similar methodology of respiratory depression assessment used in the recently completed PRODIGY study, which itself was led by clinical outcomes research experts from Wake Forest Baptist Health and the Cleveland Clinic. As in the PRODIGY study, investigators in the VOLITION study evaluated the proportion of patients meeting an expert adjudicated criterion of meaningful respiratory compromise, defined by a collapsed composite of any one or more of: 1) end-tidal carbon dioxide  $< 15$  mmHg for  $\geq 3$  minutes; 2) respiratory rate  $\leq 5$  breaths/minute for  $\geq 3$  minutes; 3) SpO<sub>2</sub>  $\leq 85\%$  for  $\geq 3$  minutes; 4) Apnea episode lasting  $> 30$  seconds; 5) any serious respiratory event. No drug-related serious adverse events (SAEs) and no deaths were reported in the VOLITION study.

The average age of patients in VOLITION was 57.1 years (range 19 to 89), with approximately equal representation of men and women. Approximately 86% of patients underwent an abdominal surgical intervention, such as partial or total colectomy, enterotomy or other open abdominal procedures. A majority of patients had significant morbidity at the time of surgery as reflected by ASA status, and their respiratory risk was intermediate to high risk, graded using the PRODIGY risk score. The average duration of the surgery was 4.8 hours (range of 1.2 to 12.6 hours).

### **About OLINVYK<sup>®</sup> (oliceridine) injection**

OLINVYK is a new chemical entity approved by the FDA in August 2020. OLINVYK contains oliceridine, an opioid, which is a Schedule II controlled substance with a high potential for abuse similar to other opioids. It is indicated in adults for the management of acute pain severe enough to require an intravenous opioid analgesic and for whom alternative treatments are inadequate. OLINVYK is available in 1 mg/1 mL and 2 mg/2 mL single-dose vials, and a 30 mg/30 mL single-patient-use vial for patient-controlled analgesia (PCA). Approved PCA doses are 0.35 mg and 0.5 mg and doses greater than 3 mg should not be administered. The cumulative daily dose should not exceed 27 mg. Please see Important Safety Information, including the BOXED WARNING, and full prescribing information at [www.OLINVYK.com](http://www.OLINVYK.com).

### **IMPORTANT SAFETY INFORMATION**

**WARNING: ADDICTION, ABUSE, AND MISUSE; LIFE-THREATENING RESPIRATORY DEPRESSION; NEONATAL OPIOID WITHDRAWAL SYNDROME; and RISKS FROM CONCOMITANT USE WITH BENZODIAZEPINES OR OTHER CENTRAL NERVOUS SYSTEM (CNS) DEPRESSANTS**

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**ADDICTION, ABUSE, AND MISUSE** – OLINVYK exposes patients and other users to the risks of opioid addiction, abuse, and misuse, which can lead to overdose and death. Assess each patient’s risk before prescribing OLINVYK, and monitor all patients regularly for the development of behaviors or conditions.

**LIFE-THREATENING RESPIRATORY DEPRESSION** – Serious, life-threatening, or fatal respiratory depression may occur with use of OLINVYK. Monitor for respiratory depression, especially during initiation of OLINVYK or following a dose increase.

**NEONATAL OPIOID WITHDRAWAL SYNDROME** – Prolonged use of OLINVYK during pregnancy can result in neonatal opioid withdrawal syndrome, which may be life-threatening if not recognized and treated, and requires management according to protocols developed by neonatology experts. If opioid use is required for a prolonged period in a pregnant woman, advise the patient of the risk of neonatal opioid withdrawal syndrome and ensure that appropriate treatment will be available.

**RISK FROM CONCOMITANT USE WITH BENZODIAZEPINES OR OTHER CNS DEPRESSANTS** – Concomitant use of opioids with benzodiazepines or other CNS depressants, including alcohol, may result in profound sedation, respiratory depression, coma, and death. Reserve concomitant prescribing for use in patients for whom alternative treatment options are inadequate; limit dosages and durations to the minimum required; and follow patients for signs and symptoms of respiratory depression and sedation.

## **INDICATIONS AND USAGE**

OLINVYK is an opioid agonist indicated in adults for the management of acute pain severe enough to require an intravenous opioid analgesic and for whom alternative treatments are inadequate.

### **Limitations of Use**

Because of the risks of addiction, abuse, and misuse with opioids, even at recommended doses, reserve OLINVYK for use in patients for whom alternative treatment options [e.g., non-opioid analgesics or opioid combination products]:

- Have not been tolerated, or are not expected to be tolerated
- Have not provided adequate analgesia, or are not expected to provide adequate analgesia. The cumulative total daily dose should not exceed 27 mg, as total daily doses greater than 27 mg may increase the risk for QTc interval prolongation.

## **CONTRAINDICATIONS**

OLINVYK is contraindicated in patients with:

- Significant respiratory depression
  - Acute or severe bronchial asthma in an unmonitored setting or in the absence of resuscitative equipment
  - Known or suspected gastrointestinal obstruction, including paralytic ileus
  - Known hypersensitivity to oliceridine (e.g., anaphylaxis)
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## WARNINGS AND PRECAUTIONS

- OLINVYK contains oliceridine, a Schedule II controlled substance, that exposes users to the risks of addiction, abuse, and misuse. Although the risk of addiction in any individual is unknown, it can occur in patients appropriately prescribed OLINVYK. Assess risk, counsel, and monitor all patients receiving opioids.
  - Serious, life-threatening respiratory depression has been reported with the use of opioids, even when used as recommended, especially in patients with chronic pulmonary disease, or in elderly, cachectic and debilitated patients. The risk is greatest during initiation of OLINVYK therapy, following a dose increase, or when used with other drugs that depress respiration. Proper dosing of OLINVYK is essential, especially when converting patients from another opioid product to avoid overdose. Management of respiratory depression may include close observation, supportive measures, and use of opioid antagonists, depending on the patient's clinical status.
  - Opioids can cause sleep-related breathing disorders including central sleep apnea (CSA) and sleep-related hypoxemia with risk increasing in a dose-dependent fashion. In patients who present with CSA, consider decreasing the dose of opioid using best practices for opioid taper.
  - Prolonged use of opioids during pregnancy can result in withdrawal in the neonate that may be life-threatening. Observe newborns for signs of neonatal opioid withdrawal syndrome and manage accordingly. Advise pregnant women using OLINVYK for a prolonged period of the risk of neonatal opioid withdrawal syndrome and ensure that appropriate treatment will be available.
  - Profound sedation, respiratory depression, coma, and death may result from the concomitant use of OLINVYK with benzodiazepines or other CNS depressants (e.g., non-benzodiazepine sedatives/hypnotics, anxiolytics, tranquilizers, muscle relaxants, general anesthetics, antipsychotics, other opioids, or alcohol). Because of these risks, reserve concomitant prescribing of these drugs for use in patients for whom alternative treatment options are inadequate, prescribe the lowest effective dose, and minimize the duration.
  - OLINVYK was shown to have mild QTc interval prolongation in thorough QT studies where patients were dosed up to 27 mg. Total cumulative daily doses exceeding 27 mg per day were not studied and may increase the risk for QTc interval prolongation. Therefore, the cumulative total daily dose of OLINVYK should not exceed 27 mg.
  - Increased plasma concentrations of OLINVYK may occur in patients with decreased Cytochrome P450 (CYP) 2D6 function or normal metabolizers taking moderate or strong CYP2D6 inhibitors; also in patients taking a moderate or strong CYP3A4 inhibitor, in patients with decreased CYP2D6 function who are also receiving a moderate or strong CYP3A4 inhibitor, or with discontinuation of a CYP3A4 inducer. These patients may require less frequent dosing and should be closely monitored for respiratory depression and sedation at frequent intervals. Concomitant use of OLINVYK with CYP3A4 inducers or discontinuation of a moderate or strong CYP3A4 inhibitor can lower the expected concentration, which may decrease efficacy, and may require supplemental doses.
  - Cases of adrenal insufficiency have been reported with opioid use (usually greater than one month). Presentation and symptoms may be nonspecific and include nausea, vomiting, anorexia, fatigue, weakness, dizziness, and low blood pressure. If confirmed, treat with physiologic replacement doses of corticosteroids and wean patient from the opioid.
  - OLINVYK may cause severe hypotension, including orthostatic hypotension and syncope in ambulatory patients. There is increased risk in patients whose ability to maintain blood pressure has already been compromised by a reduced blood volume or concurrent administration of certain CNS depressant drugs (e.g., phenothiazines or general anesthetics). Monitor these patients for signs of hypotension. In patients with circulatory shock, avoid the use of OLINVYK as it may cause vasodilation that can further reduce cardiac output and blood pressure.
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- Avoid the use of OLINVYK in patients with impaired consciousness or coma. OLINVYK should be used with caution in patients who may be susceptible to the intracranial effects of CO<sub>2</sub> retention, such as those with evidence of increased intracranial pressure or brain tumors, as a reduction in respiratory drive and the resultant CO<sub>2</sub> retention can further increase intracranial pressure. Monitor such patients for signs of sedation and respiratory depression, particularly when initiating therapy.
- As with all opioids, OLINVYK may cause spasm of the sphincter of Oddi, and may cause increases in serum amylase. Monitor patients with biliary tract disease, including acute pancreatitis, for worsening symptoms.
- OLINVYK may increase the frequency of seizures in patients with seizure disorders and may increase the risk of seizures in vulnerable patients. Monitor patients with a history of seizure disorders for worsened seizure control.
- Do not abruptly discontinue OLINVYK in a patient physically dependent on opioids. Gradually taper the dosage to avoid a withdrawal syndrome and return of pain. Avoid the use of mixed agonist/antagonist (e.g., pentazocine, nalbuphine, and butorphanol) or partial agonist (e.g., buprenorphine) analgesics in patients who are receiving OLINVYK, as they may reduce the analgesic effect and/or precipitate withdrawal symptoms.
- OLINVYK may impair the mental or physical abilities needed to perform potentially hazardous activities such as driving a car or operating machinery.
- Although self-administration of opioids by patient-controlled analgesia (PCA) may allow each patient to individually titrate to an acceptable level of analgesia, PCA administration has resulted in adverse outcomes and episodes of respiratory depression. Health care providers and family members monitoring patients receiving PCA analgesia should be instructed in the need for appropriate monitoring for excessive sedation, respiratory depression, or other adverse effects of opioid medications.

### **ADVERSE REACTIONS**

Adverse reactions are described in greater detail in the Prescribing Information.

The most common (incidence  $\geq 10\%$ ) adverse reactions in Phase 3 controlled clinical trials were nausea, vomiting, dizziness, headache, constipation, pruritus, and hypoxia.

### **MEDICAL INFORMATION**

For medical inquiries or to report an adverse event, other safety-related information or product complaints for a company product, please contact the Trevena Medical Information Contact Center at **1-844-465-4686** or email **[MedInfo@Trevena.com](mailto:MedInfo@Trevena.com)**.

You are encouraged to report suspected adverse events of prescription drugs to the FDA. Visit **[www.fda.gov/medwatch](http://www.fda.gov/medwatch)** or call **1-800-FDA-1088**.

**Please see Full Prescribing Information, including Boxed Warning.**

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## **About Trevena**

Trevena, Inc. is a biopharmaceutical company focused on the development and commercialization of innovative medicines for patients with CNS disorders. The Company has one approved product in the United States, OLINVYK<sup>®</sup> (oliceridine) injection, indicated in adults for the management of acute pain severe enough to require an intravenous opioid analgesic and for whom alternative treatments are inadequate. The Company's novel pipeline is based on Nobel Prize winning research and includes three differentiated investigational drug candidates: TRV045 for diabetic neuropathic pain and epilepsy, TRV250 for the acute treatment of migraine and TRV734 for maintenance treatment of opioid use disorder.

For more information, please visit [www.Trevena.com](http://www.Trevena.com)

## **Forward-Looking Statements**

Any statements in this press release about future expectations, plans and prospects for the Company, including statements about the Company's strategy, future operations, clinical development and trials of its therapeutic candidates, plans for potential future product candidates and other statements containing the words "anticipate," "believe," "estimate," "expect," "intend," "may," "plan," "predict," "project," "suggest," "target," "potential," "will," "would," "could," "should," "continue," and similar expressions, constitute forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including: the status, timing, costs, results and interpretation of the

Company's clinical trials or any future trials of any of the Company's investigational drug candidates; the uncertainties inherent in conducting clinical trials; expectations for regulatory interactions, submissions and approvals, including the Company's assessment of discussions with FDA; available funding; uncertainties related to the Company's intellectual property; other matters that could affect the availability or commercial potential of the Company's therapeutic candidates and approved product; and other factors discussed in the Risk Factors set forth in the Company's Annual Report on Form 10-K and Quarterly Reports on Form 10-Q filed with the Securities and Exchange Commission (SEC) and in other filings the Company makes with the SEC from time to time. In addition, the forward-looking statements included in this press release represent the Company's views only as of the date hereof. The Company anticipates that subsequent events and developments may cause the Company's views to change. However, while the Company may elect to update these forward-looking statements at some point in the future, it specifically disclaims any obligation to do so, except as may be required by law.

## **For more information, please contact:**

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