UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT
Pursuant to Section 13 or 15(d)
of The Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): April 21, 2021

TREVENA, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation)

001-36193 (Commission File No.) 26-1469215 (IRS Employer Identification No.)

955 Chesterbrook Boulevard, Suite 110 Chesterbrook, PA 19087

(Address of principal executive offices and zip code)

(610) 354-8840

(Registrant's telephone number, including area code)

n/a

(Former name or former address, if changed since last report.)

Che	eck the appropriate box below if the Form 8-K filing is intende	ed to simultaneously satisfy the filing obligation of	of the registrant under any of the following provisions:
	Written communications pursuant to Rule 425 under the Secre	urities Act (17 CFR 230.425)	
	Soliciting material pursuant to Rule 14a-12 under the Exchar	nge 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	p))
	Pre-commencement communications pursuant to Rule 13e-4	(c) under the Exchange Act (17 CFR 240.13e-4(c)))
Sec	urities registered pursuant to Section 12(b) of the Act:		
	Title of each class	Trading Symbol(s)	Name of each exchange on which registered
	Title of each class Common Stock, \$0.001 par value	Trading Symbol(s) TRVN	Name of each exchange on which registered The Nasdaq Stock Market LLC
	-	TRVN wth company as defined in Rule 405 of the Secur	The Nasdaq Stock Market LLC
the If a	Common Stock, \$0.001 par value icate by check mark whether the registrant is an emerging grow	TRVN wth company as defined in Rule 405 of the Secur . Emerging growth company □ gistrant has elected not to use the extended transit	The Nasdaq Stock Market LLC ities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of
the If a	Common Stock, \$0.001 par value icate by check mark whether the registrant is an emerging grow Securities Exchange Act of 1934 (§240.12b-2 of this chapter). In emerging growth company, indicate by check mark if the registrant is an emerging growth company, indicate by check mark if the registrant is an emerging growth company, indicate by check mark if the registrant is an emerging growth company, indicate by check mark if the registrant is an emerging growth company.	TRVN wth company as defined in Rule 405 of the Secur . Emerging growth company □ gistrant has elected not to use the extended transit	The Nasdaq Stock Market LLC ities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of

Item 7.01 Regulation FD Disclosure

On April 21, 2021, 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 Exhibit 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, 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 April 21, 2021, the Company issued a press release announcing that TRV027, the Company's investigational, novel AT₁ receptor selective agonist, has been selected for inclusion in an international, multi-site, adaptive, Phase 2-Phase 3 trial in COVID-19 patients being conducted and funded as part of REMAP-CAP (Randomised, Embedded, Multi-factorial, Adaptive Platform Trial for Community-Acquired Pneumonia). REMAP-CAP is financially supported by an array of governments and research organizations worldwide. A copy of the press release is filed as Exhibit 99.2 to this Current Report on Form 8-K and incorporated herein by reference.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Description
Corporate Presentation Deck dated April 21, 2021
Press Release dated April 21, 2021
The cover page from this Current Report on Form 8-K, formatted in Inline XBRL

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

TREVENA, INC.

Date: April 21, 2021 By: /s/ Barry Shin

Barry Shin

Senior Vice President & Chief Financial Officer



Forward-Looking Statements

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," "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; uncertainties related to the ongoing COVID-19 pandemic, 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	CUBIST	
Scott Applebaum	SVP, Chief Legal & Regulatory Officer	Shire vitae (III Bristol Myers Squibb	
Mark A. Demitrack, M.D.	SVP, Chief Medical Officer	NEURONETICS Lily ROIVANT	
Barry Shin	SVP, Chief Financial Officer	MIZUHO GUGGENHEIM PiperJaffray.	
Robert T. Yoder	SVP, Chief Commercial Officer	MERCK ONEXIOEN	
BOARD OF DIRECTORS			
Leon O. Moulder, Jr. Chairman	TESARO MG	Marvin H. Johnson, Jr.	
Carrie L. Bourdow	M CTrevena	Julie H. McHugh	endo
Scott Braunstein, M.D.	MARINUS AISLING PACIRA	Jake R. Nunn NEA.	
Michael R. Dougherty	○Adolor	Anne M. Phillips, M.D.	
Maxine Gowen, Ph.D.	© commente % Trevena	Barbara Yanni 👶 MERCK	

Trevena: Innovative CNS Company

IV OLINVYK: Differentiated profile	NCE approved for the management of acute pain in adults Commercial launch in Q1 2021; targeting 100 formulary wins by year-end
Large market, targeted launch	45M+ US hospital patients; 9M procedures is initial core focus \$1.5B+ market opportunity for core focus
Novel CNS pipeline	New mechanisms for acute migraine, opioid use disorder, epilepsy, pain NCEs targeting significant unmet needs
TRV027 for COVID-19	Novel MOA to treat COVID-19 acute lung injury / abnormal clotting REMAP-CAP trial – worldwide, adaptive, Phase 2 / 3 trial in up to 300 COVID-19 patients
Strong financial position	\$109.4M cash and cash equivalents as of YE 2020 Funds operations through Q4 2022

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.

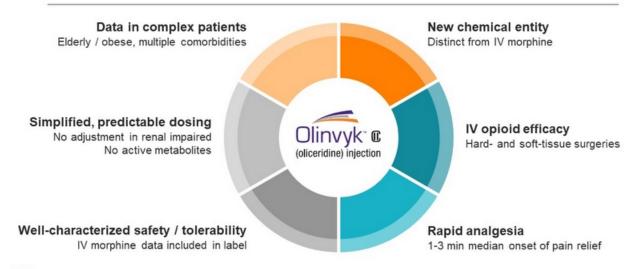
Trevena.

Multiple Expected Catalysts



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

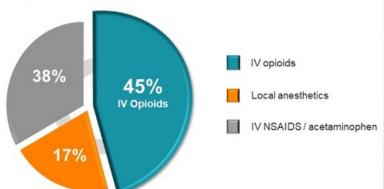




OLINVYK: Broad Indication for Acute Pain

Large acute market opportunity

US injectable analgesic hospital market unit volume¹



45M patients receive IV opioids annually to treat acute pain¹

- · Unrivalled analgesic efficacy
- Top surgeries: Total knee arthroplasty, colectomy, hernia repair, spine fusion, C-section²



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.

NSAIDs = nonsteroidal anti-inflammatory drugs. 1) IMS MIDAS sales audit 2017; IV NSAIDs and Ofirme 18: 2) Definitive database, and National Vital Statistics report. CDC 2018

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OLINVYK: Well-Characterized Safety / Tolerability

Adverse drug reactions reported in ≥5% of OLINVYK-treated patients stratified by daily dose (Phase 3 pivotal trials pooled)¹

	Placebo (N = 162)	OLINVYK ≤ 27 mg (N = 316)	Morphine (N = 158)
Patients with any TEAE (%)	73	86	96
Nausea	35	52	70
Vomiting	10	26	52
Headache	30	26	30
Dizziness	11	18	25
Constipation	9	14	14
Нурохіа	3	12	17
Pruritus	6	9	19
Sedation	5	7	13
Somnolence	4	6	10
Back pain	4	6	6
Hot flush	4	4	8
Pruritus gen.	1	2	10

Key cost-drivers associated with IV opioids:

Vomiting

 Can result in significant health risks and compromise recovery

Somnolence

Significant patient safety concern, can lead to respiratory depression

O₂ saturation < 90%

Independent predictor of early post-op respiratory complications

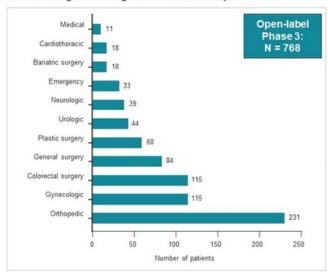


Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at www.OLINVYK.com.

1) OLINVYK Prescribing Information. Not an adequate basis for comparison of rates between the OLINVYK treatment group and the morphine treatment group

Real World Use: Complex Surgeries & Patients

Broad range of surgeries / medical procedures



Complex patients included

- . 32% ≥ 65 years; 46% BMI ≥ 30
- Co-morbidities: diabetes, obstructive sleep apnea, COPD, chronic / cancer pain
- · Concomitant medications: antiemetics, antibiotics

Multiple inpatient and hosp outpatient settings

- Hospital recovery
- · Emergency department
- · Critical care
- · Ambulatory surgical centers

Low discontinuation for AEs / lack of efficacy

- · 2% for adverse events
- · 4% for lack of efficacy

Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at www.oulnvyk.com.



Bergese SD et al. J Pain Research, 2019. Trial modeled real-world use; usual patient care with OLINVYK instead of standard IV opioid.

See EDA draft militaring for Industry Distribution Scientific and Medical Publications on Unapproved New Uses.

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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 ≈ morphine 5 mg¹

27 mg cumulative daily dose limit

Do not administer single doses greater than 3 mg



~\$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.

Customer Engagement Strategy



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Targeted Account Launch

Initial focus: complex patients in 3 key surgical areas



~4 specialties

Anesthesiology Orthopedic Colorectal Gynecologic



Inpatient & hospital outpatient

~550 hospitals ~500 ASCs

Community

Large regional systems

Hospital outpatient

Ambulatory surgical centers

40 customer-facing roles

- · Reps & Key Account Managers
- · Medical Science Liaisons

~20 years of Hosp/ASC experience

Tele-sales pilot program

Multi-channel promotion



ASCs = ambulatory surgical centers

Targeted Messaging and Resources

Key OLINVYK attributes focused on key customers



Health Care Practitioners (HCPs)

- · OLINVYK: NCE, distinct from IV morphine
- · Fast pain relief & no active metabolites
- · Safety data in complex patients / surgeries





Targeted Accounts

- · OLINVYK published safety data vs. IV morphine
- Published health economic / cost offset data*



Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at www.OLINVYK.com.

*Published by 1H 2021. Images: flaticon.com

Robust Set of Peer-Reviewed Publications

Comprehensive overview of OLINVYK development program

OLINVYK nonclinical / Phase 1 / Phase 2 data

15 publications

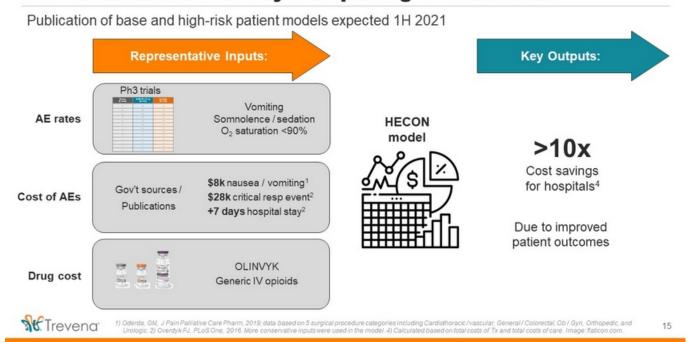
OLINVYK Phase 3 trials & secondary analyses

9 publications

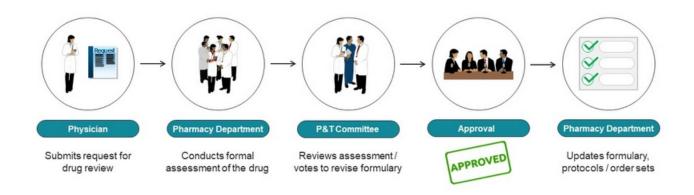
- · 4 head-to-head studies vs. IV morphine
 - IV opioid efficacy
 - Well-characterized safety and tolerability
- · Data in complex patients / surgery types
- · Respiratory safety data in elderly / obese
- · Respiratory safety profile measured by dosing interruptions
- · Clinical utility vs. IV morphine benefit-risk analysis
- · Reduced risk of N / V complete GI response analysis



HECON Model Driven by Compelling Clinical Data



Hospital Formulary Review Process



YE 2021 target: 100 formulary wins

Trevena"

Differentiated Profile For Use in Hosp Outpatient & ASCs

Separate reimbursement may provide lower access hurdle Physician trial in outpatient can accelerate inpatient uptake



Improves patient throughput / time to discharge



Streamlines dosing for short-term setting of care



Addresses shift to complex patients



ASC = ambulatory surgery center. PK = pharmacokinetic. Images: www.flaticon.com

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We Continue to Learn from and Adapt to COVID-19 Challenges

Transitioned into commercial organization with minimal business interruption

- · No delays in regulatory timelines; approval and DEA scheduling in 2H 2020
- · Commercial supply of all 3 presentations made available to customers

What we learned from our customers

- · Procedure volumes may be slow to recover; backlog of elective surgeries building1
- · IV drug shortages, increase in patient acuity continue to pressure healthcare systems

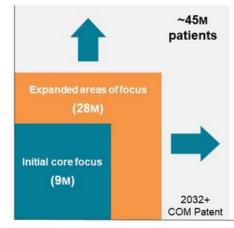
Considerations for a successful field launch in 2021

- COVID-19 will continue impacting our customers; OLINVYK's value proposition remains relevant
- · We will be making informed resource deployment decisions throughout first year of launch



Trevena* 1) Kaufman Hali 2020 State of Healthcare Performance Improvement Report: The Impact of COVID-19, October 2020.

OLINVYK: Significant Opportunity in Acute Pain



Patient & Procedure Risk

Initial core focus (9M)

- · Hospitals / ambulatory surgical centers
- "CORES" patient focus: comorbid, obese, renal, elderly, sleep apnea

~15M days of therapy (initial focus)

\$1.5B+ market opportunity*

Expanded areas of focus (28M)

- Leverage respiratory and GI safety vs. IV morphine to expand surgical procedures
- · Cognitive function & additional HECON

Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at www.OLINVYK.com.

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Specialty Targets

Source: Definitive Healthcare; American Hospital Association. *Assumes ~\$100/day price for oliceriding

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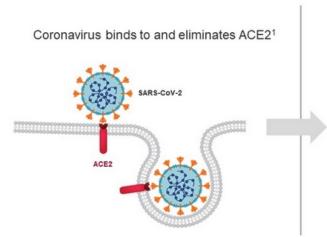
TRV027

NCE targeting the AT₁ receptor in COVID-19



Multi-Organ Damage From Coronavirus

Elimination of ACE2 protein leads to critical hormonal imbalances



- · Leads to accumulation of angiotensin II:
 - Acute lung injury and abnormal blood clots
 - Can lead to ARDS / pulmonary embolism / stroke
- 66% 94% mortality rate for COVID-19 related ARDS^{2*}
- ~1/3 of hospitalized COVID-19 patients develop clotting complications³

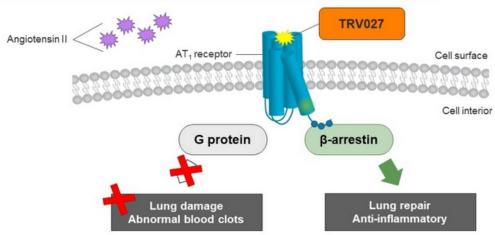


ARINS - Aruta Raenizatory Distrace Syndroma, (1 Kuha Kat al., Nat Mad. 2005. 2) Gibeon PG at al. Mad. I Aust. 2020. *In nationic raquiring weathlation, 3) Kink EA at al. Thromb Rae. 2020.

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TRV027: New MOA for COVID-19

Mechanism targeted to improve lung function and prevent abnormal clotting



TRV027 is the only selective AT₁ receptor agonist Safety / tolerability established in ~700 patients



TRV027 COVID-19 Study - REMAP-CAP

REMAP-CAP is a global clinical trial network led by experts in pandemic response

- · Multi-site, adaptive, Phase 2 / 3 trial in COVID-19 patients
- · 200 300 COVID-19 patients
 - Hospitalized patients, including those admitted to ICU
 - ≥18 years old
- · TRV027 being administered in conjunction w/ACE inhibitor

Primary outcome:

In-hospital mortality + organ failure support in ICU after 21 days following randomization

Additional clinical outcomes: ICU and hospital length of stay, ventilator-free days, organ failure-free days





* Primary endpoint: D-dimer levels: https://clinicaltrials.gov/ct2/show/record/NCT04419610

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Multiple Expected Catalysts

	PRE-CLINICAL	PHASE 1	PHASE 2	PHASE 3	NDA	EXPECTED CATALYSTS
OLINVYK™ New chemical entity (mu-opioid receptor)	Acute pain	ľ		APP	ROVED	Q1 21: Commercial launch
TRV027 Novel AT ₁ receptor selective agonist	ARDS / abnormal (COVID-19)	clotting _{IV}	Collaborations w REMAP-CAP and			Transition to REMAP-CAP trial
TRV250 G-protein selective agonist delta receptor)	Acute migraine	vral/subcutaneous				1H 21: IND-enabling activities (oral)
TRV734 G-protein selective agonist (mu-opioid receptor)	Opioid use disord oral	er	Collaboration with National Institute	•		PoC study data (NIDA)
TRV045 Novel S1P receptor modulator	CNS disorders oral	Collaboration with National Institutes				1H 21: IND filing

Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at www.OLINVYK.com.

Trevena Trevena

TRV250, TRV734, TRV027, and TRV045 are investigational products and are not approved by the FDA or any other regulatory agency.

4RDS = 4cute Respiratory Distress Syndrome: IND = Investigational New Drug: PoC = Proof-of-Concept

TRV250: New MOA for Acute Treatment of Migraine

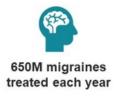
Delta receptor: Untapped potential in CNS space

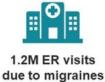
Migraine represents a large market opportunity; total migraine drug market = ~\$3.5B

Delta receptors have unique distribution throughout the brain

Play important role in regulation of pain, mood, and anxiety

Every year in the US1:





- 20-30% of migraine sufferers do not respond to / cannot tolerate the market-leading triptan drug class
- Approx. 50% of migraineurs also suffer from anxiety²

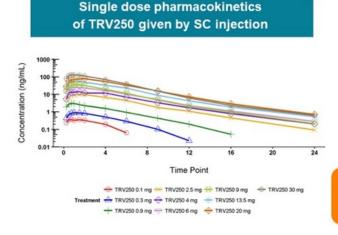


Data from Decision Resources, Pharmacor migraine market landscape and forecast 2018. 2) Moven et al., J Neurol Neurosurg Psychiatry, 2016

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TRV250: Well-Tolerated in Ph1 Healthy Volunteer PK Study

Subcutaneous doses up to 30 mg studied; no SAEs observed



- Well tolerated, with no SAEs across broad range of doses
- Predictable PK: dose-proportional between 0.1 mg to 30 mg SC
- · Half-life consistent across all doses
- No EEG findings observed in any subject

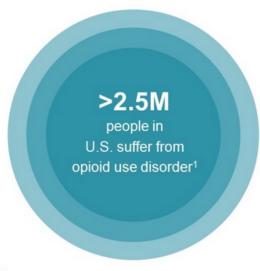
IND-enabling activities initiated for new oral dose form



SC = subcutaneous. Fossier MJ et al., CNS Drugs, Aug 2020;34(8):853-865.

TRV734: Maintenance Therapy for Opioid Use Disorder

Selective agonism at μ receptor: Potential for improved tolerability



Ongoing collaboration with National Institute on Drug Abuse (NIDA)

- Nonclinical evidence of improved tolerability with TRV734
- NIDA study demonstrated reduced drug-seeking behavior in animal model of relapse²
- Current therapies not well tolerated, can hinder patient adherence

NIDA-funded proof-of-concept patient study initiated



) Center for Behavioral Health Statistics and Quality. 2) N/DA data on file

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TRV045: Selective S1PR With No Lymphopenia

Uniquely selective for S1P-subtype 1 receptor

S1P₁ receptors are expressed broadly in the CNS

Potential role in the treatment of:

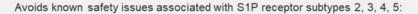
Epilepsy

- Neuroprotective effects¹
- Modulates permeability of BBB, anti-inflammatory effects²



Chronic neuropathic pain

- Inhibits pain sensation³
- · Inhibits excitatory neuronal signaling4



Pulmonary, cardiac, and cancer-related effects⁵

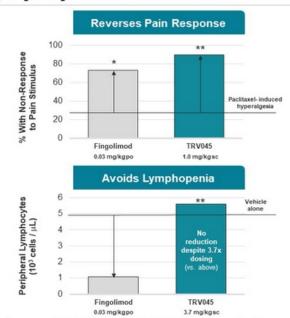


1) Gol et al., European Journal of Pharmaceutical Sciences, 2017. 2) Leo et al., CNS & Neurological Disorders - Orug Targets, 2017.
3) Sim-Selley et al., Journal of Pharmacology & Experimental Therapeutics, 2018. 4) Sim-Selley et al., Journal of Neurochemistry, 200.
5) Lymphopenia, bradycardia, vascular leakage, macular edema. BBB = blood-brain barrier. Images: fiation. com.

TRV045: Engages S1PR Without Lymphopenia in CIPN Model

S1P receptor activation conventionally associated with lymphopenia / immunosuppression

- In animals, TRV045 reversed paclitaxel-induced hyperalgesia without immune-suppressing activity
 - Fingolimod reduced lymphocytes by 78%
 - TRV045 had no effect on lymphocytes
- Non-opioid MOA with broad potential for CNS indications
 - Chronic pain, CIPN, diabetic neuropathy
 - Epilepsy, acute / chronic pain evaluations underway





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 micelaroup "0<0.05 or "0<0.05 or "0<0.01 vs. control

Trevena: Innovative CNS Company

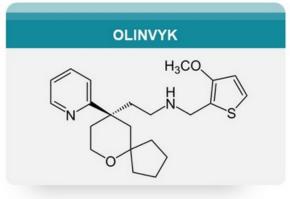
IV OLINVYK: Differentiated profile	NCE approved for the management of acute pain in adults Commercial launch in Q1 2021; targeting 100 formulary wins by year-end
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OLINVYK: Distinct From IV Morphine / Hydromorphone



Studied in >1,900 individuals

IV morphine included as active comparator

NCE with 2032+ COM patent¹



Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at www.OLINVYK.com.

Robust Clinical Development Program

OLINVYK studied in > 1,900 individuals

Phase 1 Phase 2 Phase 3

- No dosage adjustments for elderly / renally impaired
- · No known active metabolites

4 head-to-head trials vs. IV morphine:

- · IV opioid efficacy
- · Rapid onset of action
- · Well-characterized respiratory safety / GI tolerability
- · Low rates of vomiting and rescue antiemetic use

Large safety study:

· Real-world use in complex patients and target surgeries

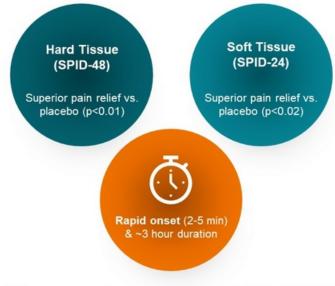


Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at www.OLINVYK.com.

subjects exposed to OLINVYK in Ph1 = 318; # patients treated with OLINVYK in Ph2 and Ph3 = 1,535

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OLINVYK: IV Opioid Efficacy and Rapid Onset



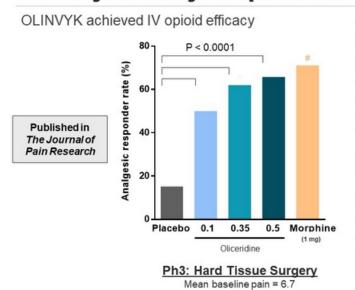
- Efficacy achieved in hard tissue & soft tissue models
- Rapid onset: perceptible pain relief within 2-5 minutes
- OLINVYK efficacy data in peerreviewed journals
 The Journal of Pain Research¹ and Pain Practice²

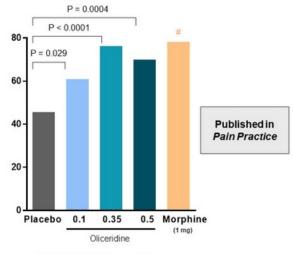


Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at www.OLINVYK.com.

1) Viscusi ER et al. J Pain Res. 2019;12:927–943. Published 2019 Mar 11. 2) Singla NK et al. Pain Pract. 2019;19:715-731. Published 2019 Jun 04.

Primary Efficacy Endpoint Achieved in Two Pivotal Studies





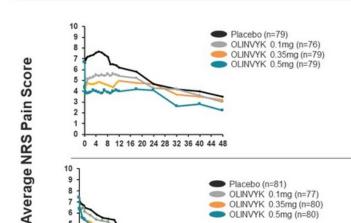
Ph3: Soft Tissue Surgery
Mean baseline pain = 7.3

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analyses were the prespecified primary endpoints for both studies. Section 14 of the Prescribing Information includes the SPID-24 and SPID-24 efficacy analyses that were the basis for approval. Viscus ER et al. J Pain Res. 2019;1:227-243. Published 2019 Mart 11. Singlis MK et al. Pain Pract. 2019;19:715-731. Published 2019 Jun 04. 87 e. 0.05 vs. piceboe (unadjusteden) consistency analyses that were the basis for approval.

OLINVYK: IV Opioid Efficacy in 2 Phase 3 RCTs



12 16 20

Time (hours)

Study 1 (Orthopedic - Hard Tissue)

3 PCA regimens studied (0.1, 0.35, 0.5 mg) vs. placebo; all doses P<0.01 vs. placebo

Outcome	0.1 mg	0.35 mg	0.5 mg	Placebo
% Completed	83%	87%	84%	60%
% D/C LOE	9%	4%	5%	34%
% Rescue Meds	41%	20%	17%	77%

Study 2 (Plastic Surgery - Soft Tissue)

3 PCA regimens studied (0.1, 0.35, 0.5 mg) vs. placebo; 0.35 / 0.5 mg doses P<0.02 vs. placebo

0.1 mg	0.35 mg	0.5 mg	Placebo
86%	90%	87%	74%
11%	3%	5%	22%
31%	21%	18%	49%
	86% 11%	86% 90% 11% 3%	0.1 mg 0.35 mg 0.5 mg 86% 90% 87% 11% 3% 5%



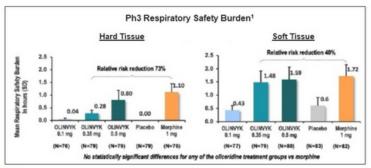
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Robust Assessment of Respiratory Safety in Phase 3 RCTs

Data included in AMCP dossier used in formulary review

- · Prespecified secondary endpoint: Respiratory Safety Burden (RSB)
 - Calculated based on incidence and cumulative duration of respiratory safety events
- Full characterization of respiratory safety profile has been made available to HCPs and formulary decision makers
 - Data can be found in OLINVYK AMCP dossier and published literature



Hard Tissue			Demand Dor		
			OLINVYK		Morphine
Orthopedic Surgery- Bunionectomy Study	Placebo (N=79)	0.1 mg (N=76)	0.35 mg (N=79)	0.5 mg (N=79)	1 mg (N=76)
Components of the respiratory saf	ety burden				
≥1 respiratory safety event, n (%)	0	1 (1.3)	7 (8.9)	11 (13.9)	14 (18.4
P-value vs morphine	0.006	0.002	0.050	0.364	-
Duration of event, mean hours (SD)	0 (N/E)	2.88 (N/E)	3.21 (2.24)	5.72 (7.44)	5.96 (4.67
P-value vs morphine	0.102	0.140	0.260	0.186	-
Respiratory safety event measures					
Oxygen saturation <90%, n (%)	1 (1.3)	3 (3.9)	8 (10.1)	11 (13.9)	15 (19.7
P value vs morphine	0.005	0.006	0.100	0.352	-
Respiratory rate ≤8 bpm, n (%)	0	0	1 (1.3)	1 (1.3)	4 (5.3)
P value vs morphine	0.956	0.956	0.188	0.185	-
Sedation (MRPSS ≥3), n (%)	10 (2.7)	14 (18.4)	16 (20.3)	13 (16.5)	15 (19.7
P value vs morphine	0.242	0.838	0.926	0.610	-
Soft Tissue	-	-			
Soft Tissue			Demand Dos	ie	
			OLINVYK		Morphine
Plastic Surgery-	Placebo	0.1 mg	OLINVYK 0.35 mg	0.5 mg	Morphine 1 mg
Plastic Surgery- Abdominoplasty Study	(N=83)		OLINVYK		Morphine
Plastic Surgery- Abdominoplasty Study Components of the respiratory safe	(N=83) ty burden	0.1 mg (N=77)	OLINVYK 0.35 mg (N=79)	0.5 mg (N=80)	Morphine 1 mg (N=82)
Plastic Surgery- Abdominoplasty Study Components of the respiratory safe ≥1 respiratory safety event, n (%)	(N=83)	0.1 mg	OLINVYK 0.35 mg	0.5 mg (N=80) 18 (22.5)	Morphine 1 mg (N=82)
Plastic Surgery Abdominoplasty Study Components of the respiratory safe 21 respiratory safety event, n (%) Odds ratio vs morphine	(N=83) by burden 5 (6.0) 0.15	0.1 mg (N=77) 6 (7.8) 0.19	OLINVYK 0.35 mg (N=79) 17 (21.5) 0.61	0.5 mg (N=80) 18 (22.5) 0.68	Morphine 1 mg
Plastic Surgery- Abdominoplasty Study Components of the respiratory safe ±1 respiratory safety event, n (%) Odds ratio vs morphine P value vs morphine	(N=83) ty burden 5 (6.0) 0.15 0.0003	0.1 mg (N=77) 6 (7.8) 0.19 0.0007	0.35 mg (N=79) 17 (21.5) 0.61 0.20	0.5 mg (N=80) 18 (22.5) 0.68 0.32	Morphine 1 mg (N=82) 22 (26.8)
Abdominoplasty Study Components of the respiratory safe 21 respiratory safety event, n (%) Odds ratio vs morphine P value vs morphine Duration of event, mean hours (SD)	(N=83) ty burden 5 (6.0) 0.15 0.0003 9.88 (7.0)	0.1 mg (N=77) 6 (7.8) 0.19 0.0007 5.51 (1.91)	0.35 mg (N=79) 17 (21.5) 0.61 0.20 6.88 (5.66)	0.5 mg (N=80) 18 (22.5) 0.68	Morphine 1 mg (N=82) 22 (26.8)
Plastic Surgery- Abdominoplasty Study Components of the respiratory safe 11 respiratory safety event, n (%) Odds ratio vs morphine P value vs morphine Duration of event, mean hours (SD) P value vs morphine	(N=83) ty burden 5 (6.0) 0.15 0.0003	0.1 mg (N=77) 6 (7.8) 0.19 0.0007	0.35 mg (N=79) 17 (21.5) 0.61 0.20	0.5 mg (N=80) 18 (22.5) 0.68 0.32 7.07 (6.56)	Morphine 1 mg (N=82) 22 (26.8)
Plastic Surpery- Abdominoplasty Study Components of the respiratory safe 21 respiratory safety event, n (%) Odds ratio vs morphine P value vs morphine Duration of event, mean hours (SD)	(N=83) ty burden 5 (6.0) 0.15 0.0003 9.88 (7.0)	0.1 mg (N=77) 6 (7.8) 0.19 0.0007 5.51 (1.91)	0.35 mg (N=79) 17 (21.5) 0.61 0.20 6.88 (5.66) 0.78	0.5 mg (N=80) 18 (22.5) 0.68 0.32 7.07 (6.56)	Morphine 1 mg (N=82) 22 (26.8) 6.40 (5.09
Plastic Surgery Abdominoplasty Study Components of the respiratory safe at respiratory safety event, n (%) Odds ratio vs morphine P value vs morphine Duration of event, mean hours (SD) P value vs morphine Respiratory safety event measures	(N=83) ty burden 5 (6.0) 0.15 0.0003 9.88 (7.0) 0.52	0.1 mg (N=77) 6 (7.8) 0.19 0.0007 5.51 (1.91) 0.29	0.35 mg (N=79) 17 (21.5) 0.61 0.20 6.88 (5.66)	0.5 mg (N=80) 18 (22.5) 0.68 0.32 7.07 (6.56) 0.76	Morphine 1 mg (N=82) 22 (26.8) 6.40 (5.09
Plastic Services Addominoplasty Study Addominoplasty Study Components of the respiratory safe at respiratory safety event, n (5) Odds ratio vs morphine Duration of event, mean hours (5D) P value vs morphine P value vs morphine Respiratory safety event measures Orygen saturation +90%, n (5)	(N=83) ty burden 5 (6.0) 0.15 0.0003 9.88 (7.0) 0.52 7 (8.4)	0.1 mg (N=77) 6 (7.8) 0.19 0.0007 5.51 (1.91) 0.29 6 (7.8)	0.UNVYK 0.35 mg (N=79) 17 (21.5) 0.61 0.20 6.88 (5.66) 0.78 15 (19.0)	0.5 mg (N=80) 18 (22.5) 0.68 0.32 7.07 (6.56) 0.76 16 (20.0)	Morphine 1 mg (N=82) 22 (26.8) 6.40 (5.09
Plastic Surgery Abdominoplasty Study Components of the respiratory safe 11 respiratory safety event, n (%) Odds ratio vs morphine P value vs morphine Duration of event, mean hours (SD) P value vs morphine Respiratory safety event measures Orygen saturation «90%, n (%) P value vs morphine	(N=83) ty burden 5 (6.0) 0.15 0.0003 9.88 (7.0) 0.52 7 (8.4) 0.02	0.1 mg (N=77) 6 (7.8) 0.19 0.0007 5.51 (1.91) 0.29 6 (7.8) 0.01	0LINVYK 0.35 mg (N=79) 17 (21.5) 0.61 0.20 6.88 (5.66) 0.78 15 (19.0) 0.57	0.5 mg (N=80) 18 (22.5) 0.68 0.32 7.07 (6.56) 0.76 16 (20.0) 0.76	Morphine 1 mg (N=82) 22 (26.8) 6.40 (5.09 20 (24.4) 8 (9.8)
Plastic Surpays Study Abdominostaty Study Abdominostaty Study Components of the respiratory safe at respiratory safety event, n (%) Odds ratio vs morphine Duration of event, mean hours (SD) P value vs morphine Respiratory safety event measures Oxygen saturation +90%, n (%) P value vs morphine Respiratory safety event measures Oxygen saturation +90%, n (%)	(N=83) ty burden 5 (6.0) 0.15 0.0003 9.89 (7.0) 0.52 7 (8.4) 0.02 1 (1.2)	0.1 mg (N=77) 6 (7.8) 0.19 0.0007 5.51 (1.91) 0.29 6 (7.8) 0.01	0LINVYK 0.35 mg (N=79) 17 (21.5) 0.61 0.20 6.88 (5.66) 0.78 15 (19.0) 0.57 4 (5.1)	0.5 mg (N=80) 18 (22.5) 0.68 0.32 7.07 (6.56) 0.76 16 (20.0) 0.76 6 (7.5)	Morphine 1 mg (N=82) 22 (26.8) 6.40 (5.09

bpm = breaths per minute; MRPSS = Moline-Roberts Pharmacologic Sedation Scale



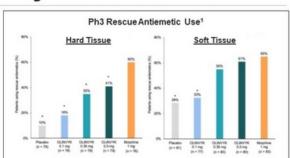
1) Figure 2-8, Section 2.2, OLINVYK Evidence Dossier for Formulary Consideration. 2) Figures 3-4 and 3-8, Section 3.1, OLINVYK Evidence Dossier for Formulary Consideration.

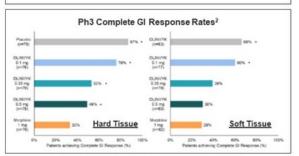
3

Robust Assessment of GI Tolerability in Phase 3 RCTs

Data included in AMCP dossier used in formulary review

- Phase 3 pivotal trials included measurements of nausea / vomiting rates and rescue antiemetic use
- Additional exploratory post-hoc analysis was conducted using a "complete GI response" endpoint³
- Full characterization of GI tolerability has been made available to HCPs and formulary decision makers
 - Data can be found in OLINVYK AMCP dossier and published literature







< 0.00 s. morphine.) in right 2-10, Section 2.2, OLINVYK Evidence possier or Formulary Consideration. 2) Figure 2-11, Section 2.2, OLINVYK Evidence possier for Formulary onsideration. 3) 61 complete response defined as the proportion of patients who did not experience the AE of vomitting and did not use rescue antiernetic medication throughout their located treatment period in the study.</p>

Customer Facing Organization

Partnering with Syneos Health to provide "best in class" commercial support



- · Allows for execution speed and flexibility in deployment
- · Full range support: source, hire, train and deploy customer-facing roles
- · Ability to flex as business needs evolve

40 Customer-Facing Roles

- · Sales: Institutional Account Managers
- Trade & Access: Regional Account Managers
- · Medical: Medical Science Liaisons



Launch Team: Top Talent with Hospital Experience

Role	Highlights
Medical Science Liaisons	100% with Advanced degrees 100% with Health Econ background 100% with hospital and launch experience
Regional Sales Managers	20+ Years experience Buy & Bill Hospital & ASC experience
Key Account Managers	21 years (avg) in Pharma 100% with GPO/IDN experience 100% with recent launch experience
Representatives	18 years experience 100% with recent launch experience 100% with Hospital experience Majority with therapeutic experience

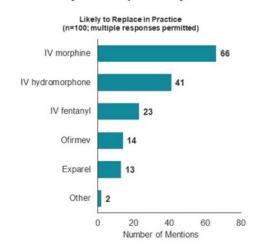


Positive Feedback from Formulary Stakeholders¹

~75% of formulary stakeholders find OLINVYK's published data clinically meaningful:2



Majority of stakeholders view IV morphine as likely to be replaced by OLINVYK:



Please see Important Safety Information including BOXED WARNING at the end of presentation. Full Prescribing Information at www.OLINVYK.com.



1) Qualitative Pricing research, Charles River Associates, April 2020. 2) "Are the improvements in respiratory safety events and GI tolerability clinically meaningful?"

Based on OLINVYK Ph3 clinical trial data.

4

Omni-channel Approach for HCP Engagement

Communication across a full range of channels to maximize reach and impact



Trevena[®]

"Now Available" Campaign

"Now Available" Website

- · Order/Reimbursement/Dosing Guides
- · Connect with Medical Affairs and/or Sales Rep

"Now Available" Drivers

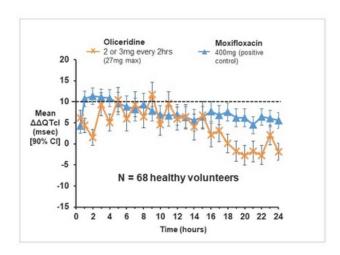
- · Programmatic Banner Ads
 - Banner ad messaging to connect HCPs through digital journey
- · Journal Ads
 - Ads will run in American Journal of Health-System Pharmacy, Pharmacy Purchasing & Products
- · Select Emails to Key Health Care Professionals
 - Emails to provide online introduction to OLINVYK





No Accumulation Despite Repeated Dosing

Multi-Dose tQT Study



Key results

- No accumulation through 24 hrs
 Mean QTcl <10ms at 22 of 24 points
- No categorical QTc outliers
 Δ >60 ms; >500 ms absolute
- Well tolerated, no SAEs*
 92% reached max daily dose

*The effect on QT prolongation at total cumulative daily doses >27 mg has not been studied in a thorough QT study. Total cumulative daily doses exceeding 27 mg per day may increase the risk for QTc interval prolongation. Therefore, the cumulative total daily dose of OLINVYK should not exceed 27 mg.

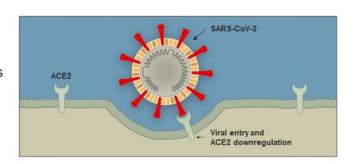
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Interaction Between the AT₁ Receptor and ACE2 in COVID-19

Downregulation of ACE2 by coronavirus indirectly promotes activation of the AT₁ receptor

- Coronavirus binds to and downregulates angiotensin converting enzyme 2 (ACE2)¹
- · Decrease in ACE2 elevates angiotensin II levels
 - Angiotensin II activates AT1 receptor
 - No breakdown of angiotensin II into Ang(1-7)
 - Normally, Ang(1-7) acts as a β-arrestin-biased ligand at the AT₁ receptor²
 - o Protective therapeutic benefits in the lungs3





1) Kuba K et al., Nat Med, 2005. 2) Teixeira LB et al., Sci Rep, 2017. 3) Santos RAS et al., Physiol Rev, 2018.

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TRV027 COVID-19 Study - Imperial College London

Interim review by DMSC1 supports transition to REMAP-CAP trial

- · Randomized, double-blind, placebo-controlled proof-of-concept study
- N = ~60 (30 per arm) COVID-19 patients
 - Hospitalized, non-ventilated
 - ≥18 years old
- IV infusion of placebo or TRV027 for 7 days (12 mg/hr)
- Review of interim data by DMSC found no safety concerns and supported advancement to more extensive study with clinical efficacy outcomes

ICL Winding down Study (Transition to REMAP-CAP)

Primary ICL Endpoint: Reduction of abnormal clotting associated with COVID-19²





1) DMSC = Data Monitoring & Safety Committee; 2) Primary endpoint: D-dimer levels. https://clinicaltrials.gov/ct2/show/record/NCT04419610.

Delta Receptor Agonists Have Unique Benefits

Potential utility for a variety of CNS indications

Triptans / Ditans

- Target: serotonin receptors → mediate vascular excitability (associated CV risk)¹
- · Migraine-specific treatment

CGRPs

- Target: CGRP receptors → regulate neuronal structures involved in pain signaling²
- · Migraine-specific treatment

Delta receptor agonists

- Target: delta receptors → located in pain pathways; also distributed throughout brain regions associated with sensory information, emotional processing, and reward / impulsivity³
- · Potential for broad therapeutic application



1) Rothrock JF & Friedman DI, American Headache Society website: https://americanheadachesociety.org/lup-content/uploads/2018/05/John_Rothrock_and_Deborah_Friedman_ Triplage off 2) Durham BI, Headache 2006, 3) Bappin JE & Baffe BB, Journal of Chairea Pharmany and Tharaparties 2015

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

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

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 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

Limitations of Use

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

- . 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 patie 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
- · 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



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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 OLDVYK with benzodiazepines or other CNS depressants (e.g., non-benzodiazepine sedatives/hypnobics, anxiolytics, tranquilizers, muscle relaxants, general anesthetics, antipsychobics, 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
- · 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 vaso dilation 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 CO₂ retention, such as those with evidence of increased intracranial pressure or brain tumors, as a reduction in respiratory drive and the resultant CO₂ 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 CO₂ retention, such as those with evidence of increased intracranial pressure or brain tumors, as a reduction in respiratory drive and the resultant CO2 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
- · 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/antagorist (e.g., pentazocine, nallbuphine, 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
- OLINVYK may impair themental or physical abilities needed to perform potentially hazardous activities such as driving a car or operating machi
- 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 ≥10%) adverse reactions in Phase 3 controlled clinical trials were nausea, vomiting, dizziness, headache, constipation, pruritus, and hypoxia.

Trevena Announces TRV027 Selected for Study in Global REMAP-CAP Trial in COVID-19 Patients

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REMAP-CAP is led by experts in pandemic response and builds upon a worldwide clinical trial network evaluating treatments for COVID-19

Interim review of Imperial College London TRV027 study data supports transition to larger study

REMAP-CAP trial to study TRV027 in up to 300 patients

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CHESTERBROOK, Pa., April 21, 2021 (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 that TRV027, the Company's novel AT 1 receptor selective agonist, has been selected for inclusion in an international, multi-site, adaptive, Phase 2-Phase 3 trial in COVID-19 patients.

The trial is being conducted and funded as part of REMAP-CAP (Randomised, Embedded, Multi-factorial, Adaptive Platform Trial for Community-Acquired Pneumonia), a global network of clinicians, institutions, and research facilities with the objective of evaluating treatments with the potential to reduce mortality, ICU use, and morbidity in severely ill patients with COVID-19. REMAP-CAP is financially supported by an array of governments and research organizations worldwide.

"I am pleased with the addition of TRV027 to REMAP-CAP, a globally recognized research network that is leading the search for cutting-edge COVID-19 therapies," said Carrie Bourdow, President and Chief Executive Officer of Trevena, Inc. "TRV027 holds immense potential as a treatment for the severe multi-organ damage and blood clotting caused by COVID-19, and I look forward to supporting the investigation of our novel asset in this innovative and expansive trial."

The trial, known as the REMAP-CAP COVID-19 ACE2 RAS Modulation Domain, is designed specifically to evaluate treatments targeting the renin-angiotensin system (RAS) and determine whether modulation of the RAS is an effective strategy for preventing multiorgan failure and mortality in hospitalized COVID-19 patients. TRV027, which is based on Nobel Prize winning technology, combats disruption within the RAS by specifically binding to and rebalancing AT 1 receptor activation, blocking the damaging pathway that leads to acute lung damage and abnormal blood clotting, while activating the cellular pathway that selectively targets reparative actions that improve lung function and promote anti-inflammatory effects.

"I am excited by the opportunity to study TRV027, a novel AT 1 receptor selective agonist, as part of REMAP-CAP's investigation of innovative treatments for COVID-19," said Anthony Gordon, M.D., Professor of Anaesthesia and Critical Care at Imperial College London and a National Institute for Health Research (NIHR) Research Professor. "REMAP-CAP's adaptive trial design allows us to gather a plethora of data on a treatment's efficacy – particularly in certain patient populations or when administered in conjunction with other types of therapies — and I look forward to seeing what information we can glean from TRV027 as we evaluate its performance in COVID-19 patients."

As previously announced, TRV027 is being investigated in a proof-of-concept study by Imperial College London. A recent review of the interim data by the study's Data Monitoring and Safety Committee (DMSC) found that there were no safety concerns with TRV027, and the DMSC supported advancing TRV027 to a larger, more extensive study with clinical efficacy outcomes. Imperial College London anticipates winding down its study in the near future and is supporting the transition of TRV027 into the REMAP-CAP COVID-19 RAS domain study. David Owen, M.D., Ph.D., the chief investigator of Imperial College London's TRV027 study, has joined the investigator team committee for the REMAP-CAP RAS domain study.

About the REMAP-CAP COVID-19 ACE2 RAS Modulation Domain

This is an international, multi-site, randomised, Phase 2-Phase 3 adaptive clinical trial in hospitalized patients with acute illness due to suspected or proven COVID-19, including patients admitted to ICU. Four active treatments are included in the study protocol, including TRV027, with 200-300 patients expected to be enrolled in each arm. TRV027 will be administered in conjunction with an ACE inhibitor. The primary outcome is a composite of in-hospital mortality and provision of organ failure support while admitted to an ICU in the 21 days following randomization. The trial is also evaluating clinical outcomes including ICU and hospital length of stay, ventilator-free days, and organ failure-free days.

About REMAP-CAP

REMAP-CAP (Randomised, Embedded, Multi-factorial, Adaptive Platform Trial for Community-Acquired Pneumonia) is a platform trial designed by clinicians who cared for patients and conducted research during the 2009 H1N1 pandemic. Planning began in 2011. REMAP-CAP is supported by multiple government grants.

REMAP-CAP builds on the combined input of the world's leading ICU trial networks and experts in infectious disease, immunology, critical care, emergency medicine, Bayesian statistics, and clinical trial execution. These existing networks have enrolled tens of thousands of patients into trials. They have extensive experience designing, conducting, and reporting clinical trials that enroll patients who are severely ill.

The goal of REMAP-CAP is to generate evidence that can be applied during the pandemic to reduce mortality, reduce ICU use, and reduce morbidity in severely ill patients with COVID-19 infection. For the past several years, REMAP-CAP has been recruiting patients with severe CAP in the inter-pandemic period. REMAP-CAP is currently recruiting in more than 300 sites across 21 countries. REMAP-CAP was designed to adapt to an acute pandemic need: that time came slightly over a year ago. Changes necessary for the pandemic have been approved or submitted for approval and many patients with COVID-19 have been and are being enrolled. More information can be found at https://www.remapcap.org/.

About TRV027

TRV027 is a novel AT1 receptor selective agonist that is currently being investigated by multiple institutions as a potential treatment for acute lung injury contributing to ARDS and abnormal blood clotting in COVID-19 patients. It has previously been studied in 691 individuals, has a well-characterized pharmacokinetic profile, and has demonstrated efficacy, potency, and selectivity at the AT1 receptor in nonclinical studies. In previous clinical trials, there was a low dropout rate associated with TRV027, and no significant

safety issues were reported. In April 2021, the Company filed a non-provisional patent application and PCT application with the United States Patent and Trademark Office covering the use of TRV027 to treat ARDS and the prevention or treatment of abnormal clotting in COVID-19 patients.

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® (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 four differentiated investigational drug candidates: TRV250 for the acute treatment of migraine, TRV734 for maintenance treatment of opioid use disorder, TRV045 for epilepsy and chronic neuropathic pain, and TRV027 for acute respiratory distress syndrome and abnormal blood clotting in COVID-19 patients.

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," "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 the discussions with FDA, the timing of FDA's decision on the oliceridine NDA; available funding; uncertainties related to the Company's intellectual property; uncertainties related to the ongoing COVID-19 pandemic, other matters that could affect the availability or commercial potential of the Company's therapeutic candidates; 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 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:

Investor Contact:

Dan Ferry Managing Director LifeSci Advisors, LLC daniel@lifesciadvisors.com (617) 430-7576

PR & Media Contact:

Sasha Bennett Director Clyde Group Sasha.Bennett@clydegroup.com (239) 248-3409