



2024 CORPORATE PRESENTATION

January 2024

Forward-Looking Statements



Various statements in this presentation, including, but not limited to statements regarding Vanda's commercial products, plans and opportunities, as well as statements about Vanda's products in development and the related clinical development and regulatory timelines and commercial potential for such products, are "forward-looking statements" under the securities laws. All statements other than statements of historical fact are statements that could be deemed forward-looking statements. Forward-looking statements are based upon current expectations and assumptions that involve risks, changes in circumstances and uncertainties. If the risks, changes in circumstances or uncertainties materialize or the assumptions prove incorrect, Vanda's results may differ materially from those expressed or implied by such forward-looking statements. Therefore, no assurance can be given that the results or developments anticipated by Vanda will be realized or, even if substantially realized, that they will have the expected consequences to, or effect on, Vanda. Important factors that could cause actual results to differ materially from those reflected in Vanda's forward-looking statements include, among others: Vanda's ability to continue to commercialize HETLIOZ[®] for the treatment of Non-24-Hour Sleep-Wake Disorder (Non-24) in the U.S., in light of existing and potential generic competition, and Europe and for the treatment of nighttime sleep disturbances in Smith-Magenis Syndrome (SMS) in the U.S.; Vanda's ability to increase market awareness of Non-24 and SMS and market acceptance of HETLIOZ[®]; Vanda's ability to obtain regulatory approval in Europe for HETLIOZ[®] in SMS; Vanda's ability to overcome the increased reimbursement challenges it faces as a result of declining third-party payor coverage; Vanda's ability to continue to generate U.S. sales of Fanapt[®] for the treatment of schizophrenia; Vanda's ability to generate U.S. and Canadian sales of PONVORY[®] for the treatment of relapsing forms of multiple sclerosis; Vanda's ability to complete the clinical development of and obtain regulatory approval of tradipitant in the treatment of gastroparesis, motion sickness and atopic dermatitis, HETLIOZ[®] in the treatment of jet lag disorder, insomnia, delayed sleep phase disorder and pediatric Non-24, Fanapt[®] in the treatment of bipolar I disorder in adults, the Fanapt[®] long acting injectable, VTR-297 in the treatment of hematologic malignancies, VSJ-110 for the treatment of dry eye, VPO-227 for the treatment of secretory diarrhea disorders, including cholera, VQW-765 for the treatment of social/performance anxiety, and VHX-896 for the treatment of psychiatric disorders; Vanda's ability to progress VCA-894A in Charcot-Marie-Tooth Disease, Type 2S; Vanda's dependence on third-party manufacturers to manufacture HETLIOZ[®], Fanapt[®] and PONVORY[®] in sufficient quantities and quality; Vanda's ability to prepare, file, prosecute, defend and enforce any patent claims and other intellectual property rights; Vanda's ability to maintain rights to develop and commercialize Vanda's products under its license agreements; Vanda's ability to obtain and maintain regulatory approval of Vanda's products, and the labeling for any approved products; Vanda's level of success in commercializing HETLIOZ[®] and Fanapt[®] in new markets; Vanda's expectations regarding the timing and success of preclinical studies and clinical trials; the safety and efficacy of Vanda's products; regulatory developments in the U.S., Europe and other jurisdictions; limitations on Vanda's ability to utilize some or all of its prior net operating losses and orphan drug and research development credits; the size and growth of the potential markets for Vanda's products and the ability to serve those markets; Vanda's expectations regarding trends with respect to its revenues, costs, expenses, liabilities and cash, cash equivalents and marketable securities; Vanda's ability to identify or obtain rights to new products; Vanda's ability to attract and retain key scientific or management personnel; the costs and effects of litigation; Vanda's ability to obtain the capital necessary to fund its research and development or commercial activities; the costs and effects of litigation; potential losses incurred from product liability claims made against Vanda; the use of existing cash, cash equivalents and marketable securities and other factors that are described in the "Cautionary Note Regarding Forward-Looking Statements", "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" sections of Vanda's most recent annual report on Form 10-K, as updated by Vanda's subsequent quarterly reports on Form 10-Q, current reports on Form 8-K and other filings with the SEC, which are available on the SEC's website at www.sec.gov.

Vanda cautions investors not to rely too heavily on the forward-looking statements contained in this presentation. The information in this presentation is provided only as of the date of this presentation, and Vanda undertakes no obligation, and specifically declines any obligation, to update or revise publicly any forward-looking statements, whether as a result of new information, future events, or otherwise, except as required by law.



Vanda is a leading global biopharmaceutical company dedicated to innovating in the service of people's pursuit of happiness

Commercialized Products

HETLIOZ[®]
HETLIOZ LQ[®]

Fanapt[®]

PONVORY[®]

Robust pipeline

Recent regulatory submissions

Multiple products across wide range of therapeutic areas

Strong Financial Position

Approx. \$490 million cash as of Q3 2023 with no debt

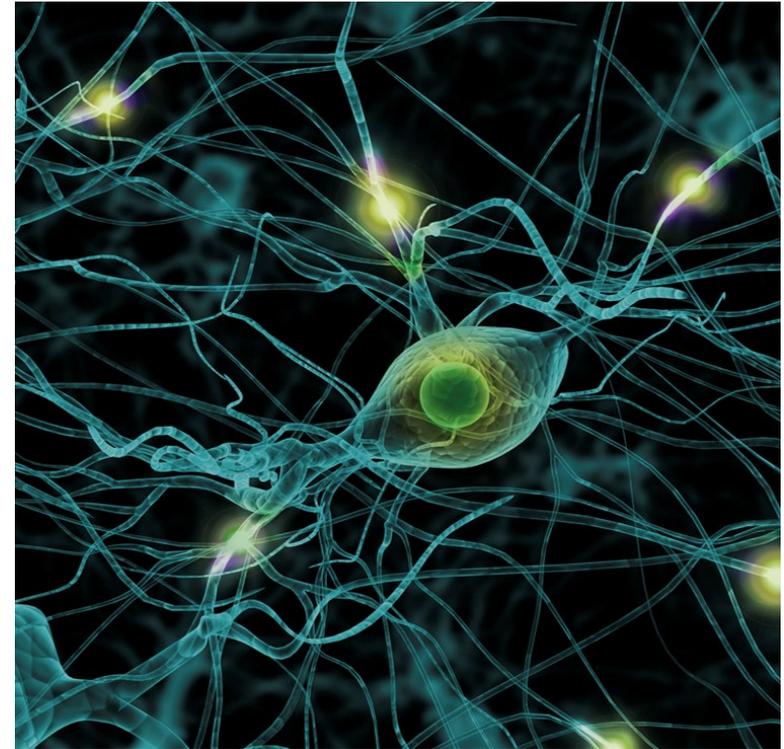
Recent acquisition of PONVORY® from Johnson & Johnson Company



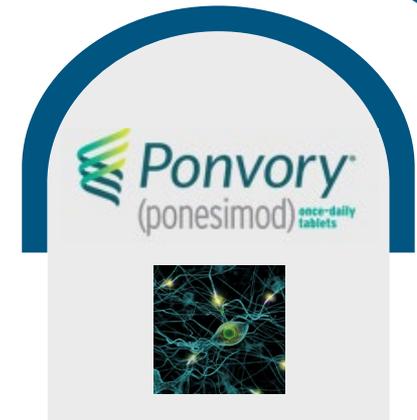
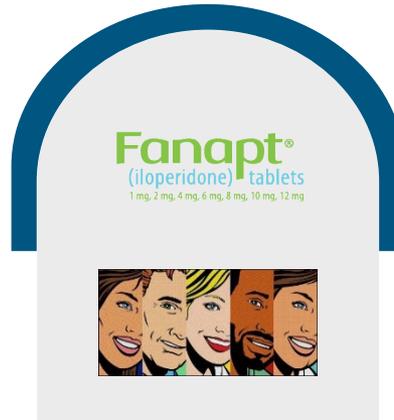
In December 2023, Vanda acquired U.S. and Canadian rights to PONVORY® (ponesimod) from Actelion Pharmaceuticals Ltd., a Johnson & Johnson Company, for \$100 million. PONVORY® is approved by the U.S. Food and Drug Administration (FDA) and Health Canada to treat adults with relapsing forms of multiple sclerosis (RMS), to include clinically isolated syndrome, relapsing-remitting disease and active secondary progressive disease.

The mechanism of action of PONVORY® makes it also a potential therapeutic candidate for the treatment of a diverse group of inflammatory/autoimmune disorders including but not limited to ulcerative colitis, psoriasis, Crohn's disease, atopic dermatitis, eosinophilic esophagitis and alopecia areata. In a randomized placebo controlled clinical study, PONVORY® has been shown to reduce the symptoms and signs of psoriasis.¹

The PONVORY® Orange Book listed patent with the latest expiry date is set to expire in December 2035.



Commercialized Products



- HETLIOZ[®] oral capsules are approved in the U.S. and Europe for the treatment of Non-24-Hour Sleep-Wake Disorder (Non-24).
- HETLIOZ[®] oral capsules and HETLIOZ LQ[®] liquid formulation are approved in the U.S. for the treatment of nighttime sleep disturbances in adults and children, respectively, with Smith-Magenis Syndrome (SMS).
- Pursuing FDA approvals for HETLIOZ[®] in the indications of insomnia and jet lag disorder.
- Fanapt[®] is approved in the U.S. for the treatment of adults with schizophrenia.
- Positive results in the Phase III clinical study of Fanapt[®] in acute manic and mixed episodes associated with bipolar I disorder in adults. Pursuing FDA approval for Fanapt[®] in the indication of bipolar I disorder in adults.
- PONDVORY[®] is indicated for the treatment of relapsing forms of multiple sclerosis (MS), to include clinically isolated syndrome, relapsing-remitting disease, and active secondary progressive disease, in adults.
- Potential therapeutic candidate for the treatment of a diverse group of inflammatory/autoimmune disorders ranging from psoriasis to ulcerative colitis.

Clinical Development Pipeline: Key Milestones



Vanda pursuing FDA approval for the following:

Product	Indication
Fanapt®	Bipolar (PDUFA Date: 4/2/2024)
HETLIOZ®	Insomnia (PDUFA Date: 3/4/2024)
Tradipitant	Gastroparesis (PDUFA Date: 9/18/2024)

Other recent and upcoming clinical and regulatory developments include:

Indication	Recent Action
Motion sickness	Positive Phase III results; second Phase III study initiated
VHX-896	Active metabolite of iloperidone; potential for upcoming NDA filing
Charcot-Marie-Tooth Disease, Type 2S	Orphan drug designation granted for VCA-894A
Cholera	Orphan drug designation granted for VPO-227

Strategic Focus



Increase revenue

Organically through existing products

Business development opportunities

Advance pipeline

Late / early-stage programs

Emerging ASO platform

Consumer focus

Increase access and affordability for patients

Engage directly with consumer

Commercial Priorities & Milestones



- Continued focus on market for schizophrenia
- Pursue FDA approval for Fanapt® in the indication of bipolar I disorder in adults
- Advance VHX-896 (formerly P88), as well as Long Acting Injectable (LAI)



- Retain market share despite generic competition through focus on patient loyalty
- Continue growth of HETLIOZ® in SMS in U.S. market
- Pursue approval of HETLIOZ® in SMS in the E.U. market
- Pursue FDA approvals for HETLIOZ® in the indications of insomnia and jet lag disorder



- Re-launch in existing multiple sclerosis (MS) market
- Potential therapeutic candidate for the treatment of a diverse group of inflammatory/autoimmune disorders ranging from psoriasis to ulcerative colitis.



- Pursue FDA approval for tradipitant in patients with gastroparesis
- Advance motion sickness program

Fanapt® for Schizophrenia:



- About 1% of adult population worldwide is diagnosed with schizophrenia¹
- About 3 million people in the U.S. live with schizophrenia



- Patients frequently switch antipsychotic treatments due to side effects²
- Side effects include metabolic, weight and movement disorders

Akathisia
Frequently seen with antipsychotics

- Up to 25% of patients treated with some antipsychotics experience akathisia



- Vanda owns global rights for Fanapt®
- Commercialized outside the U.S. through partners

1. NIMH.
2. Prescribing Information for leading brands.

HETLIOZ[®] for Non-24-Hour Sleep-Wake Disorder (Non-24)



Key demographics

Blind individuals with Non-24

~70% totally blind have Non-24¹



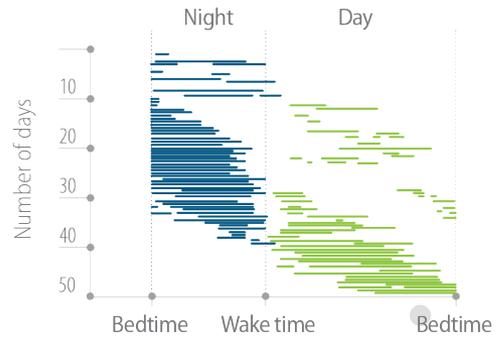
1:4000 in U.S. (~80,000)²

Sighted individuals with Non-24

Non-24 is comorbid with depressive and bipolar disorders³

Prevalence of Non-24 in the general population is unclear but appears rare in sighted individuals³

Misaligned circadian timing system



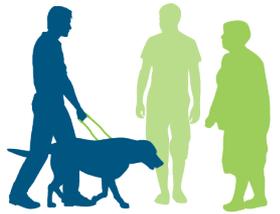
Clinical characteristics



Disrupted nighttime sleep



Excessive daytime sleepiness



Poor social and occupational functioning

1. Dressman et al. Seventy Percent of Totally Blind People with Sleep Complaints Are Not Entrained to the 24 Hour Clock. SLEEP Conference 2012. Vanda Pharmaceuticals Inc. June 2012.
 2. Vanda estimate.
 3. Diagnostic and Statistical Manual of Mental Disorders, 5th Edition (DSM-5), American Psychiatric Association, March 2013, page 396-397.

HETLIOZ[®] for Smith-Magenis Syndrome (SMS)



Hetlioz[®]
(tasimelteon) capsules
20 mg

Hetlioz LQ[®]
(tasimelteon)
Oral Suspension 4mg/mL

- HETLIOZ[®] first approved treatment for nighttime sleep disturbances in SMS (December 2020)
- Pursuing approval in the E.U. market
- Severe sleep disorder is the strongest predictor of maladaptive behavior

15,000



1/15,000-25,000
births in the U.S.^{1,2}

Chromosomal
deletion of 17p11.2
Rare mutations of
the retinoic
acid 1 (RAI1) gene

Major physical,
developmental &
behavioral features



1. Orphanet ORPHA number 819.
2. Smith et al. GeneReviews. 2001.

HETLIOZ[®] for Smith-Magenis Syndrome (SMS)



Hetlioz[®]
(tasimelteon) capsules
20 mg

Hetlioz LQ[®]
(tasimelteon)
Oral Suspension 4mg/mL

1. December 2020: FDA approves HETLIOZ[®] & HETLIOZ LQ[®] for the treatment of nighttime sleep disturbances in patients with SMS



2. Patients from the ongoing open label clinical study have been contacted and are at different stages of working with their doctors to begin commercial treatment

3. In collaboration with the advocacy group PRISMS, we are contacting additional individuals with SMS and their families

prisms
Parents and Researchers Interested
in Smith-Magenis Syndrome

4. Work with diagnostic centers and tertiary care clinics where patients seek diagnosis and treatment

5. Targeted and direct-to-consumer advertising for individuals with SMS, their families and their treating physicians



Research and Development

Late-Stage Clinical Development Pipeline



Product	Indication	Preclinical	Phase I	Phase II	Phase III	Regulatory
	Jet Lag Disorder	Progressed to Regulatory				
	Insomnia	Progressed to Regulatory				
	Delayed Sleep Phase Disorder (DSPD)	Completed Phase II				
	Non-24 Pediatric	Completed Phase II				
	Bipolar I Disorder	Progressed to Regulatory				
	Long Acting Injectable (LAI)	Completed Phase I				
	TBD	Completed Phase II				
	TBD	Completed Phase II				
	Gastroparesis	Progressed to Regulatory				
	Motion Sickness	Completed Phase II				
	Atopic Dermatitis	Completed Phase II				
	Schizophrenia	Completed Phase II				
	Bipolar I Disorder	Completed Phase II				



HETLIOZ[®] Lifecycle Management

HETLIOZ[®] Lifecycle Management Programs



Hetlioz[®]
(tasimelteon) capsules
20 mg

Hetlioz LQ[®]
(tasimelteon)
Oral Suspension 4mg/mL

1

Jet Lag Disorder

- Clinical program completed

2

Insomnia

- Clinical program completed; sNDA accepted for filing with PDUFA target action date of 3/4/2024

3

Delayed Sleep Phase Disorder

- Phase III program initiated

4

Non-24 Pediatric

- Phase III clinical program in preparation



Fanapt® Lifecycle Management

Fanapt® Lifecycle Management Programs



Fanapt®
(iloperidone) tablets
1 mg, 2 mg, 4 mg, 6 mg, 8 mg, 10 mg, 12 mg

1

Bipolar I Disorder

- Phase III program complete; positive results announced in December 2022
- Pursuing FDA approval for Fanapt® in the indication of bipolar I disorder in adults; sNDA accepted for filing with PDUFA target action date of 4/2/2024

2

Long Acting Injectable

- Pharmacokinetic (PK) study of Fanapt® long-acting injectable formulation is ongoing and we are finalizing and optimizing dosing and administration
- A Phase III study of the long-acting injectable for acute schizophrenia treatment will follow the PK study

3

VHX-896 (formerly P88)

- VHX-896 is the active metabolite of iloperidone that we believe has the potential to improve the clinical profile of Fanapt® and create sustained, long-term value in the treatment of psychiatric disorders



Bipolar I Disorder

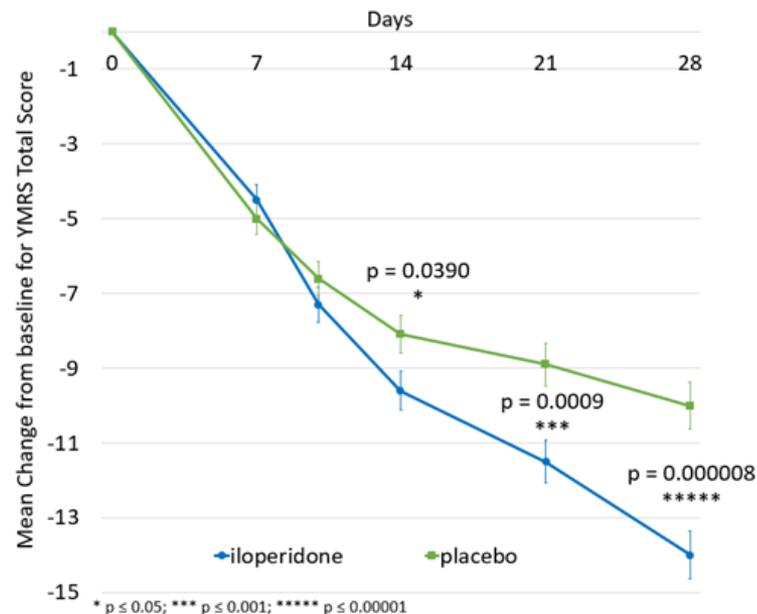
Fanapt® for Bipolar I Disorder



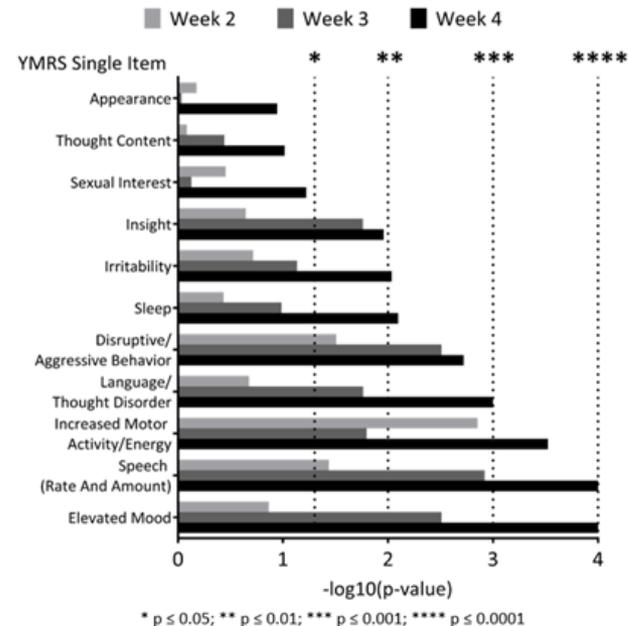
Results reported in December 2022

- The Phase III study enrolled approximately 400 volunteers with a history of bipolar I disorder suffering from a current episode of mania.
- The primary endpoint was assessed by the Young Mania Rating Scale (YMRS), a rating scale of clinical severity in the core symptoms of mania.
- Looking at the YMRS change from baseline at week 4, Fanapt® was significantly superior to placebo ($p=0.000008$).

Young Mania Rating Scale (YMRS) Change From Baseline Total Score



Significance of YMRS Change From Baseline Single Items



Fanapt® for Bipolar I Disorder



Results reported in December 2022

- The secondary endpoints, Clinician Global Impression of Severity (CGI-S) and Clinician Global Impression of Change (CGI-C), also achieved statistical significance ($p=0.0005$ and $p=0.0002$, respectively) at week 4.
- Bipolar disorder is highly prevalent in the United States, estimated to affect 2.8%¹, of the U.S. adult population, a number approximately up to ten times higher than the estimated prevalence of schizophrenia^{2,3}.
- This pivotal study data of Fanapt® for the treatment of acute manic and mixed episodes associated with bipolar I disorder in adults included in supplemental New Drug Application (sNDA). Pursuing FDA approval for Fanapt® in the indication of bipolar I disorder in adults; sNDA accepted for filing with PDUFA target action date of 4/2/2024.

1. Harvard Medical School, 2007. National Comorbidity Survey (NSC). (2017, August 21). Retrieved from <https://www.hcp.med.harvard.edu/ncs/index.php>.

2. Kessler, R.C., Birnbaum, H., Demler, O., Falloon, I.R., Gagnon, E., Guyer, M., Howes, M.J., Kendler, K.S., Shi, L., Walters, E., Wu, E.Q. (2005). The prevalence and correlates of nonaffective psychosis in the National Comorbidity Survey Replication (NCS-R). *Biological Psychiatry*, 58(8), 668-76. doi: 10.1016/j.biopsych.2005.04.034

3. Wu, E.Q., Shi, L., Birnbaum, H., Hudson, T., Kessler, R. (2006). Annual prevalence of diagnosed schizophrenia in the USA: a claims data analysis approach. *Psychological Medicine*, 36(11), 1535-40. doi: 10.1017/S0033291706008191



Tradipitant Programs

Tradipitant Programs



1

Gastroparesis

- Phase III study results reported in February 2022; 12-week study of ~200 patients with idiopathic or diabetic gastroparesis
- Phase II positive study with results reported in December 2018 and published in Gastroenterology in January 2021
- Pursuing FDA approval for tradipitant in patients with gastroparesis; NDA accepted for filing with PDUFA target action date of 9/18/2024

2

Motion Sickness

- Second Phase III study initiated
- First Phase III positive study results reported in May 2023
- Phase II positive study results reported in July 2019

3

Atopic Dermatitis

- EPIONE 2 Phase III study on hold
- EPIONE Phase III study results reported in February 2020



Gastroparesis

Tradipitant for Gastroparesis



- Completed two clinical studies of tradipitant in gastroparesis. NDA accepted for filing with PDUFA target action date of 9/18/2024.
- Gastroparesis is a significant unmet medical need.
- Last treatment approved more than 40 years ago¹.



**600,000
diagnosed**

600,000 people
estimated to be
diagnosed in the
U.S.²



**300,000
prescriptions**

Appx. 300,000
metoclopramide
prescriptions per
month.³



**6 million
people**

Estimated U.S.
prevalence of 1.8%
of the population.²

1. Reglan (metoclopramide) initial FDA approval 1979.

2. Rey et al J Neurogastroenterol Motil, Jan 2012.

3. IQVIA Prescription Data

Gastroparesis – Symptoms & Clinical Expression¹



Diabetic or Idiopathic Gastroparesis

Chronic Nausea



Patients with gastroparesis suffer from chronic, severe and debilitating nausea.

Delayed Gastric Emptying



Many patients with gastroparesis have a mechanical defect of delayed gastric emptying, which may be the cause of some of their symptoms.



Vomiting

Gastroparesis can cause vomiting, which can lead to weight loss and hospitalization due to nutritional deficiencies.



Additional GI Symptoms

Patients with gastroparesis may also experience postprandial fullness, early satiety and abdominal pain.



Tradipitant Gastroparesis Clinical Program



1

Phase II Study (VP-VLY-686-2301)

- 4-week study of approximately 150 adult patients with diabetic or idiopathic gastroparesis
- Tradipitant was shown to be effective in improving nausea and overall symptoms in patients with gastroparesis
- Efficacy established by tradipitant in the 4-week double-blind phase was persistent in the open-label phase

2

Phase III Study (VP-VLY-686-3301)

- 12-week study of approximately 200 adult patients with diabetic or idiopathic gastroparesis
- The study did not meet its primary endpoint; however, when accounting for confounders, strong evidence of drug effect across a number of symptoms was observed
- Open-label phase remains open with over 300 patients already enrolled

3

Expanded Access Program

- Vanda initiated an expanded access program for patients requesting access to tradipitant outside of the clinical studies
- Vanda continues to receive requests from patients reaching out to gain access to tradipitant through the Expanded Access program, which has multiple patients continuing to take tradipitant for more than a year

Gastroparesis – Phase II Study



Results reported in December 2018, published in *Gastroenterology* January 2021¹

Study Design



- 4 weeks of double-blind treatment followed by optional 8 weeks of open-label treatment
- 85 mg b.i.d.
- 47 study sites in the U.S.

Population



- Approximately 150 randomized subjects
- Stratified by idiopathic or diabetic gastroparesis

Assessments



- Patient Reported Daily Diary: Nausea, Vomiting & Other Symptoms
- Patient Assessment of GI Disorders (PAGI-SYM)
- Patient Global Impression (PGI-C)
- Clinical Global Impression (CGI-S)

Gastroparesis – Phase III Study



Study is complete and results were reported in February 2022

Study Design



- 12 weeks of double-blind treatment
- 85 mg b.i.d.
- 40 study sites in the U.S.

Population



- Approximately 200 randomized subjects
- Stratified by idiopathic or diabetic gastroparesis

Assessments



- Patient Reported Daily Diary: Nausea, Vomiting & Other Symptoms
- Patient Assessment of GI Disorders (PAGI-SYM)
- Patient Global Impression (PGI-C)
- Clinical Global Impression (CGI-S)

Gastroparesis – Pooled Study Results



- **Vanda completed a pooled analysis of two clinical studies of tradipitant in gastroparesis.**
 - **Population of 342 patients with relevant clinical endpoints.**
 - **Both studies were large multi-site, randomized, double-blind, placebo-controlled studies**
- **Tradipitant was shown to be superior to placebo in key clinical parameters:**
 - **Daily Diary-Nausea (primary endpoint parameter)**
 - **% Nausea Free Days**
 - **Patient Global Impression scale change (PGI-C)**
 - **Overall Benefit Score and Gastroparesis Cardinal Symptom Index (GCSI) score**
- **Both studies demonstrate the efficacy of tradipitant in relieving symptoms of gastroparesis.**

Gastroparesis – Pooled Study Results



Figure 1 and Table 1 show the results of such pooled analysis of all patients randomized in the two studies (intent to treat population, ITT) and Figure 2 and Table 2 show the results for the same parameters in the population of patients who were judged as compliant to treatment based on analysis of drug exposure (treatment compliant population).

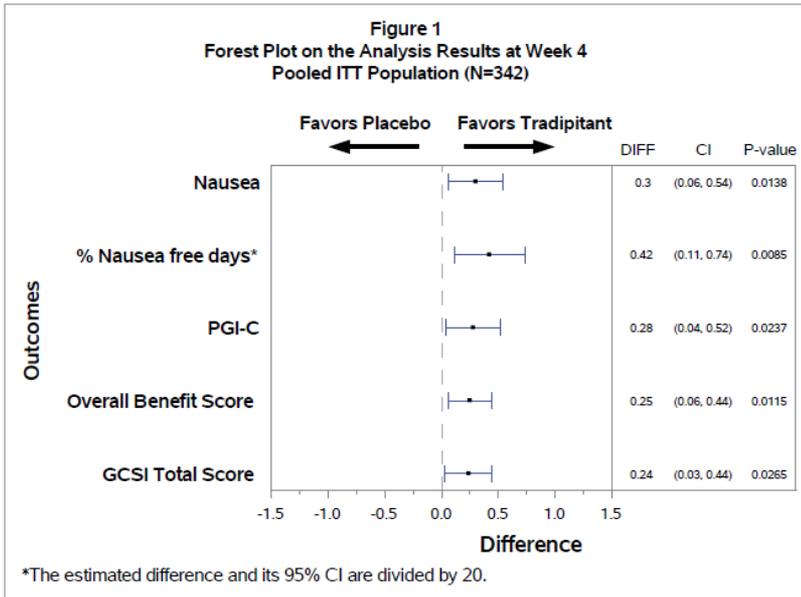


Table 1: Week 4 Pooled Analysis : ITT population for Study 1 and Study 2

	Tradipitant n=175	Placebo n=167	P-value
DD-Nausea	-1.15	-0.85	0.0138
% Nausea Free Days	20.96	12.52	0.0085
PGI-C	2.72	3.00	0.0237
Overall Benefit Score	1.13	0.88	0.0115
GCSI	-0.99	-0.76	0.0265

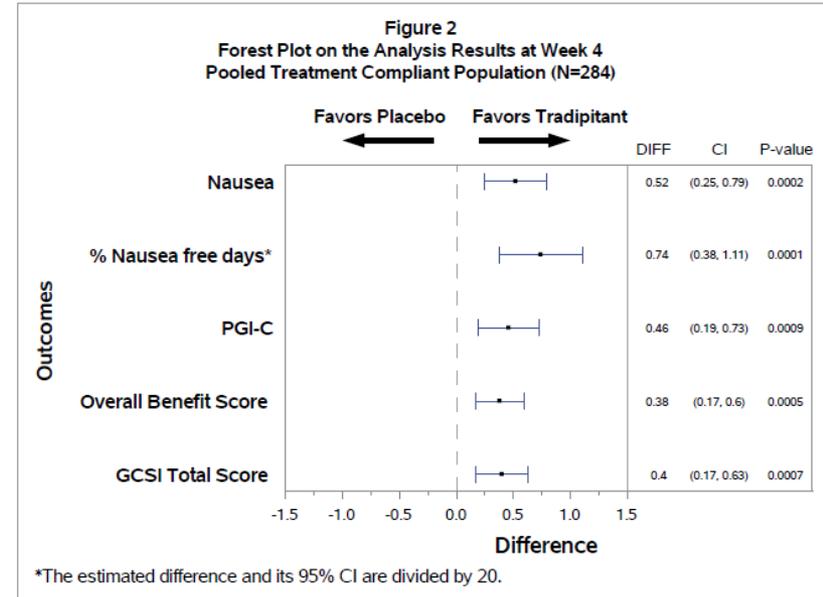


Table 2: Week 4 Pooled Analysis: Treatment Compliant Population for Study 1 and Study 2

	Tradipitant n=117	Placebo n=167	P-value
DD-Nausea	-1.37	-0.85	0.0002
% Nausea Free Days	27.44	12.58	0.0001
PGI-C	2.53	2.99	0.0009
Overall Benefit Score	1.27	0.88	0.0005
GCSI	-1.15	-0.75	0.0007



Motion Sickness

Tradipitant for Motion Sickness



Neurokinin-1 (NK-1) receptor antagonists have the potential to be effective in improving the symptoms of motion sickness, given the involvement of substance P in nauseogenic and emetic pathways and the expression of NK-1 receptors in the gastrointestinal system.¹



Nausea and vomiting are the core symptoms of motion sickness²



The sensory mismatch resulting in motion sickness is due to discordance between actual and expected movement as perceived by the visual, vestibular, and kinesthetic systems³



About 2 to 3 million doses of Dramamine are purchased each month in the U.S.⁴



1. Polymeropoulos VM, Czeisler ME, Gibson MM, Anderson AA, Miglo J, Wang J, Xiao C, Polymeropoulos CM, Birznieks G and Polymeropoulos MH (2020) Tradipitant in the Treatment of Motion Sickness: A Randomized, Double-Blind, Placebo-Controlled Study. *Front. Neurol.* 11:563373. doi: 10.3389/fneur.2020.563373

2. Golding JF. Motion sickness. In: Furman JM, Lempert T, editors. *Handbook of Clinical Neurology*. Amsterdam, Boston, Heidelberg, London, New York, Oxford, Paris, San Diego, San Francisco, Singapore, Sydney, Tokyo: Elsevier. (2016). p. 371–90.

3. Graybiel A, Knepton J. Sopsite syndrome: a sometimes sole manifestation of motion sickness. *Aviat Space Environ Med.* (1976) 47:873–82.

4. IQVIA data

Motion Sickness – Phase II Study Results



Results reported in July 2019, published in *Frontiers in Neurology* in September 2020¹

- Tradipitant was shown to be effective in preventing motion sickness¹
- An exploratory analysis was performed to evaluate the effects of tradipitant under “calm” and “rough” seas. Under “rough” sea conditions (seas above 1 meter):
 - 72.2% of the placebo treated patients vomited as compared to 15.8% of those treated with tradipitant
 - A significant effect was also seen under “rough” conditions in the MSSS Worst score

Endpoint	Tradipitant	Placebo	Difference	P-Value
ITT	N=63	N=63		
% Vomiting	17.5%	39.7%	22.2%	0.0039
Worst MSSS	3.40	3.75	0.35	0.2936
Calm Sea	N=44	N=45		
% Vomiting	18.2%	26.7%	8.5%	0.3123
Worst MSSS	3.4	3.32	-0.09	0.8271
Rough Sea	N=19	N=18		
% Vomiting	15.8%	72.2%	56.4%	0.0009
Worst MSSS	3.19	4.57	1.38	0.0235

Motion Sifnos Phase II Study Results¹

Single day sea travel in the Pacific Ocean

Patients with a history of motion sickness

170mg tradipitant versus placebo

Primary Endpoints:

- % Vomiting
- Worst MSSS - Motion Sickness Severity Scale

ITT = Intent to Treat

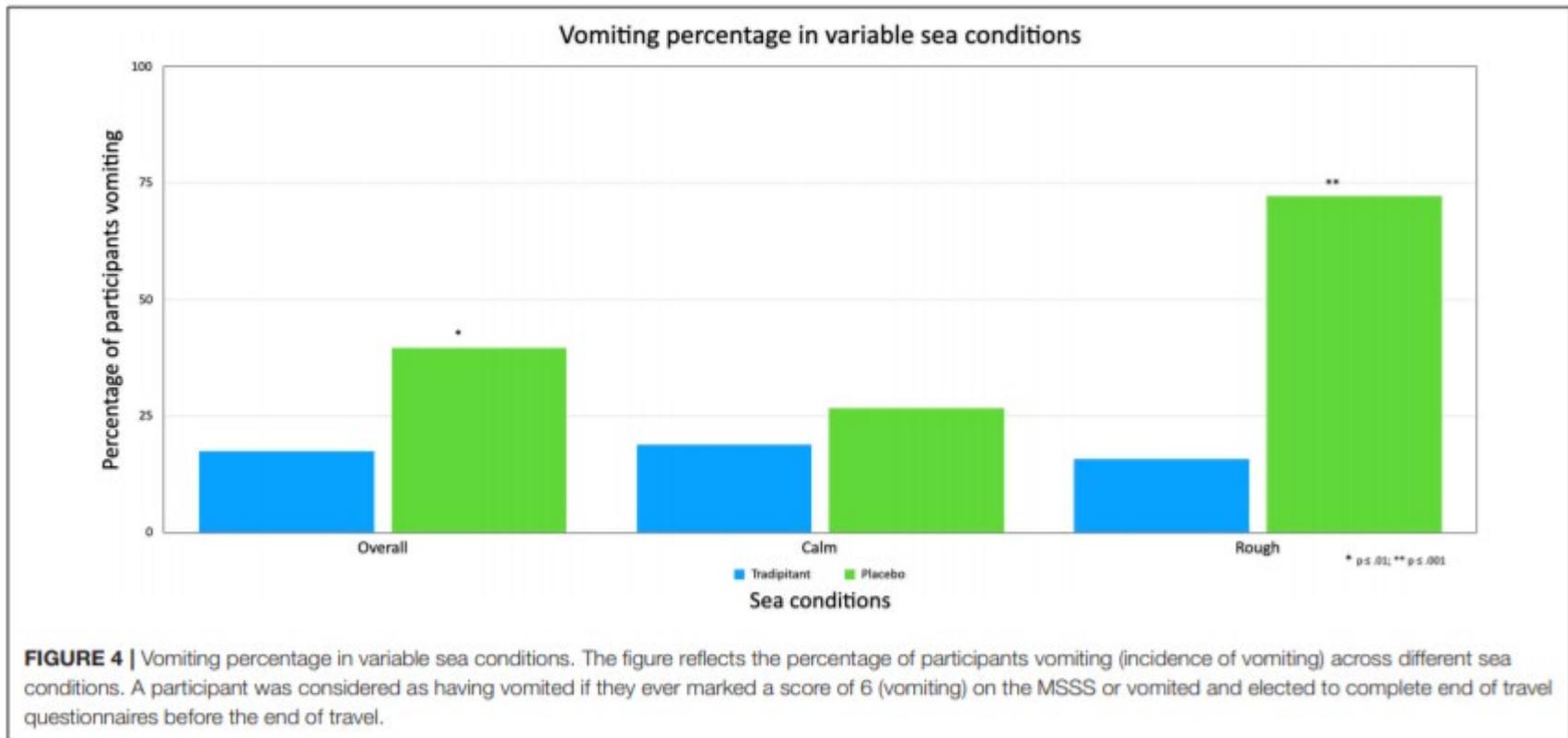
1. Polymeropoulos VM, Czeisler ME, Gibson MM, Anderson AA, Miglo J, Wang J, Xiao C, Polymeropoulos CM, Birznieks G and Polymeropoulos MH (2020) Tradipitant in the Treatment of Motion Sickness: A Randomized, Double-Blind, Placebo-Controlled Study. *Front. Neurol.* 11:563373. doi: 10.3389/fneur.2020.563373

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Motion Sickness: Phase III Program



- Phase III study completed – Positive results in prevention of vomiting
- Second Phase III study initiated
- Open label safety study started

Enrollment



- **First Phase III Study:**
 - **Randomized: 365**
 - **85 and 170mg tradipitant both met primary endpoint preventing vomiting on the boats**
- **Second Phase III Study:**
 - **Similar study design**

Program Timeline

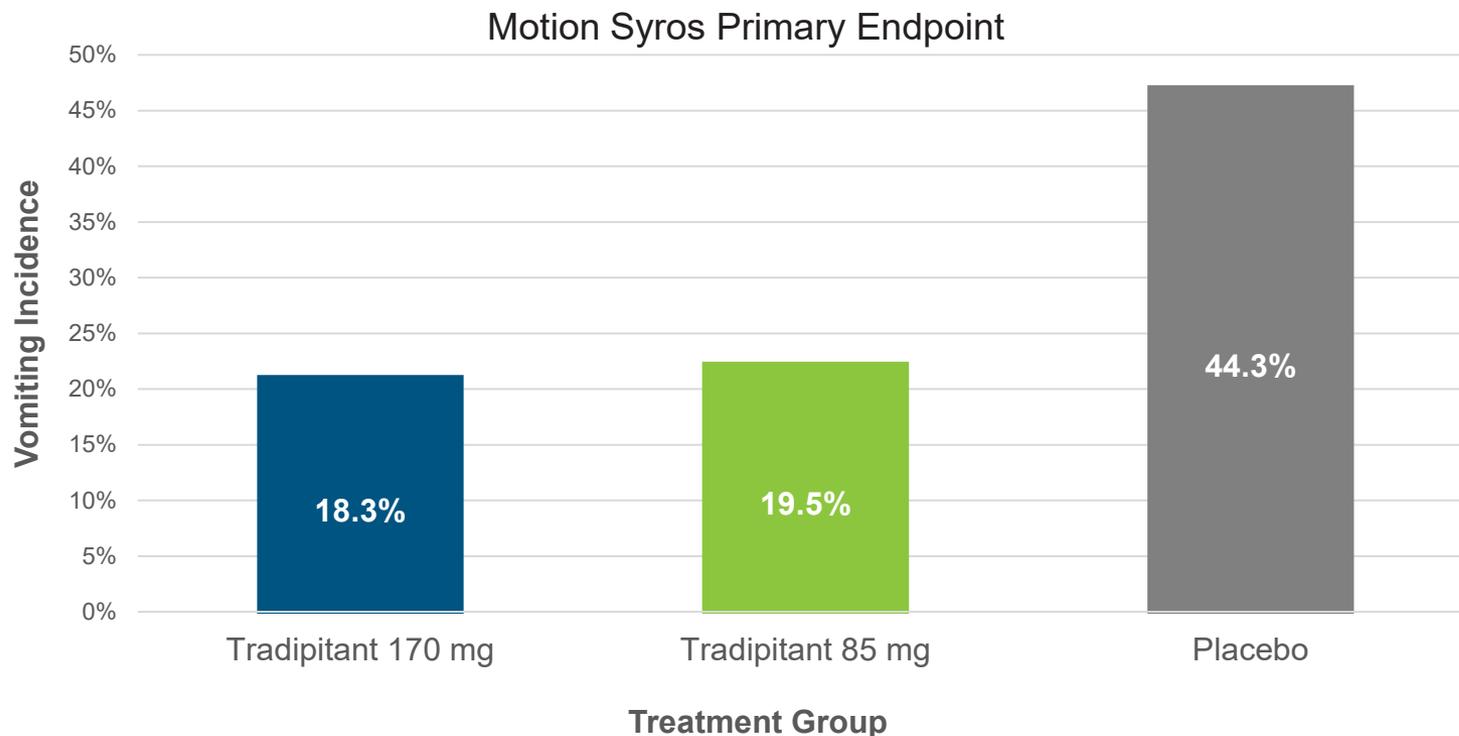


- **First Phase III results reported in May 2023**
- **Second Phase III study initiated**
- **Pursue FDA approval upon completion of clinical development program**

Motion Sickness: Phase III Study



- 365 participant study across 34 boat trips in coastal waters of U.S. from November 2021 to April 2023
- Participants randomized 1:1:1 tradipitant 170mg v tradipitant 85mg v placebo 1 hour prior to departure
- Approximately 4-hour trips with questionnaires of vomiting and nausea every 30 minutes
- Incidence of vomiting was significantly lower in tradipitant 170mg (18.3%) and tradipitant 85mg (19.5%) as compared to placebo (44.3%), $p < .0001$





Early-Stage Programs



Cystic Fibrosis Transmembrane Conductance Regulators (CFTR)

- **VSJ-110** – CFTR Activator: VSJ-110 has shown efficacy in a dry eye model¹ and exhibited anti-inflammatory properties in both in vitro and in vivo assays
- Ongoing Phase II Conjunctivitis Study investigating anti-inflammatory effect of VSJ-110 (PDE4 inhibition) following ragweed ocular challenge
- **VPO-227** – CFTR Inhibitor: CFTR inhibitors decrease water secretion across epithelia, such as where aberrant CFTR activation occurs; they may be useful in the treatment of cholera, traveler's diarrhea, polycystic kidney disease, and other conditions of water hyper-secretion
- Cholera Disease: VPO-227 was granted Orphan Drug Designation by FDA for the treatment of cholera



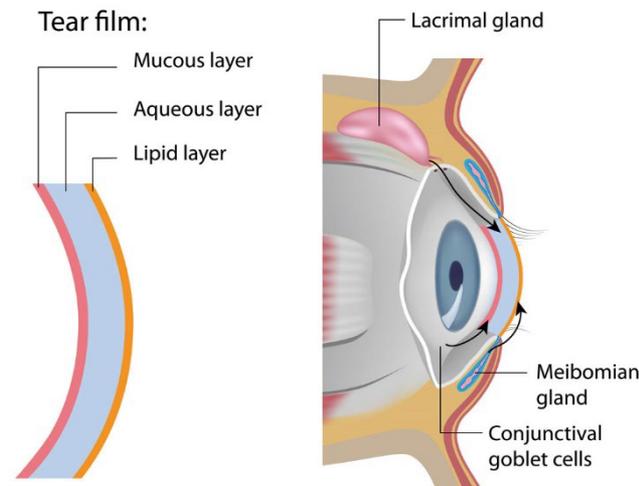
Hematologic Malignancies

- VTR-297 is a histone deacetylase (HDAC) inhibitor
- Ongoing Phase II study of VTR-297 in Hematologic Malignancies at sites in the U.S. and Europe



Social/Performance Anxiety

- VQW-765 is an Alpha-7 nicotinic acetylcholine receptor partial agonist
- Phase II study of a single-dose treatment to alleviate social/performance anxiety complete; results announced in December 2022



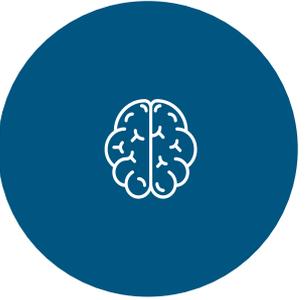
1. Lee, S., P.W. Phuan, C.M. Felix, J.A. Tan, M.H. Levin and A.S. Verkman (2017). Nanomolar-potency aminophenyl-1,3,5-triazine activators of the cystic fibrosis transmembrane conductance regulator (CFTR) chloride channel for prosecretory therapy of dry eye diseases. *J. Med. Chem.* 60:1210-1218.

Early-Stage Programs

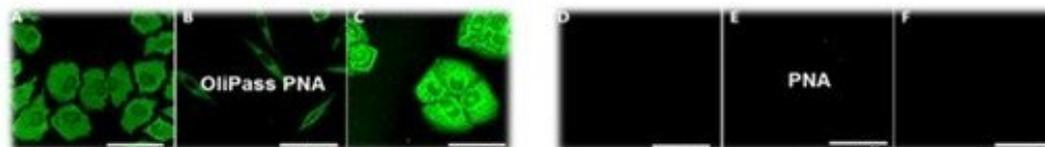
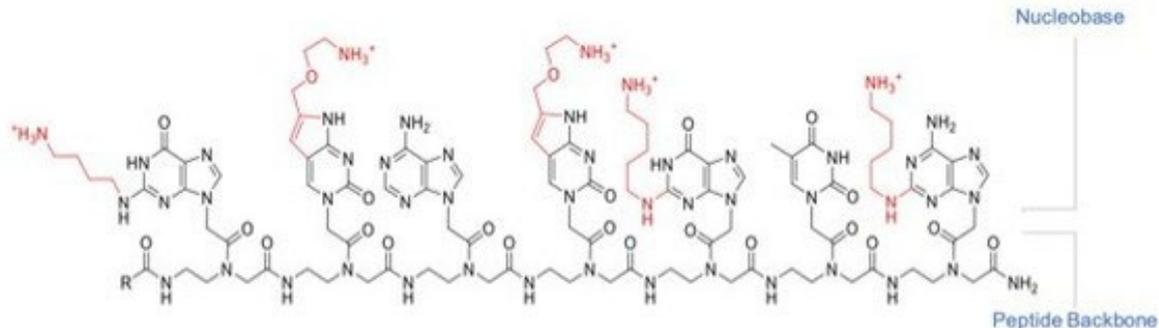


Antisense Oligonucleotide (ASO)

- VCA-894A was granted Orphan Drug Designation for the treatment of Charcot-Marie-Tooth disease, axonal, type 2S (CMT2S), caused by cryptic splice site variants within IGHMBP2.
- In September 2022, Vanda and OliPass Corporation (OliPass) announced a research and development agreement to jointly develop a set of antisense oligonucleotide (ASO) molecules based on OliPass' proprietary modified peptide nucleic acids.
- This evolving discovery and development platform is intended to support Vanda's development of ASO-based precision medicine therapeutics.



OliPass Peptide Nucleic Acids (OPNA) – Chemically modified PNA



Improvement of cell permeability by OPNA modification in 3 different cell types .



Financial Results



Q3 2023 Financial Highlights

\$38.8 million

Total net product sales from HETLIOZ[®] and Fanapt[®] were \$38.8 million in the third quarter of 2023



HETLIOZ[®] net product sales were \$17.5 million in the third quarter of 2023



Fanapt[®] net product sales were \$21.3 million in the third quarter of 2023

Financials – Results Through September 30, 2023



Results Through September 30, 2023

HETLIOZ [®] Net Product Sales	\$79.1M
Fanapt [®] Net Product Sales	\$68.3M
Total Revenues	<u>\$147.4M</u>
Cost of Goods Sold	\$11.3M
Research & Development	\$52.5M
Selling, General & Administrative	\$89.3M
Intangible Asset Amortization	\$1.1M
Operating Expenses	<u>\$154.2M</u>
Net Income (Loss)	\$4.9M
Cash ¹	\$489.9M

1. Cash, cash equivalents and marketable securities



Hetlioz[®]
(tasimelteon) capsules
20 mg

For more information on HETLIOZ[®], please visit
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Fanapt[®]
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