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): June 6, 2024

DIANTHUS THERAPEUTICS, INC.

(Exact name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation) 001-38541 (Commission File Number) 81-0724163 (IRS Employer Identification No.)

7 Times Square
43rd Floor
New York, New York
(Address of Principal Executive Offices)

10036 (Zip Code)

Registrant's Telephone Number, Including Area Code: 929 999-4055

(Former Name or Former Address, if Changed Since Last Report) Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions: Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425) Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12) Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b)) Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c)) Securities registered pursuant to Section 12(b) of the Act: **Trading** Title of each class Symbol(s) Name of each exchange on which registered DNTH Common Stock, \$0.001 Par Value The Nasdaq Capital Market Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter). Emerging growth company □ If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. \square

Item 7.01 Regulation FD Disclosure.

Beginning on June 6, 2024, spokespersons of Dianthus Therapeutics, Inc. (the "Company") plan to present information contained in an updated corporate presentation (the "Presentation") at various meetings with investors and analysts. Marino Garcia, the Company's President and Chief Executive Officer, will also present the information in the Presentation at the Jefferies Global Healthcare Conference on June 6, 2024.

The information in this Item 7.01, including Exhibit 99.1 attached hereto, is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act") or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such filing.

Cautionary Note Regarding Forward-Looking Statements. The Presentation contains forward-looking statements that involve certain risks and uncertainties that could cause actual results to differ materially from those expressed or implied by these statements. Please refer to the cautionary notes in the Presentation regarding these forward-looking statements.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit No.	Description
99.1	Investor Presentation of Dianthus Therapeutics, Inc., dated June 2024
104	Cover Page Interactive Data File (embedded within the inline XBRL document)

SIGNATURES

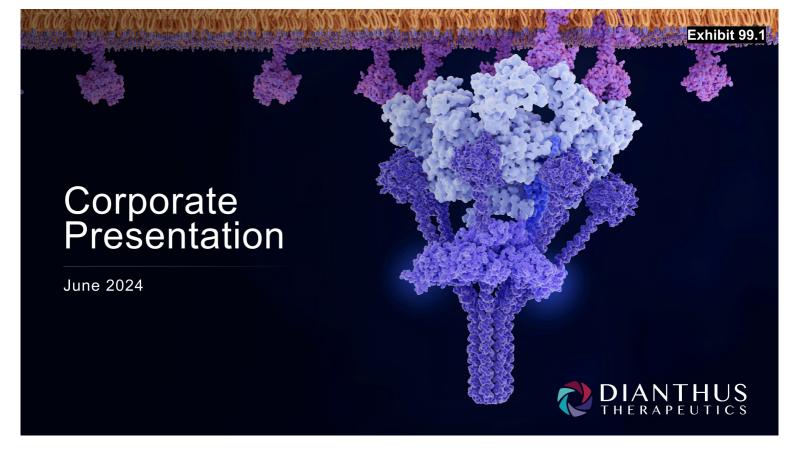
Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

DIANTHUS THERAPEUTICS, INC.

Date: June 6, 2024 By: /s/ Adam M. Veness, Esq.

Adam M. Veness, Esq.

SVP, General Counsel and Secretary



FORWARD-LOOKING STATEMENTS

Certain statements in this presentation ("Presentation"), other than purely historical information, may constitute "forward-looking statements" within the meaning of the federal securities laws, including for purposes of the safe harbor provisions under the United Stated Private Securities Litigation Reform Act of 1995, concerning Dianthus Therapeutics, Inc. (the "Company"). These forward-looking statements include statements regarding the Company's future plans and prospects, including statements regarding the expectations or plans for discovery, preclinical studies, clinical trials and research and development programs, in particular with respect to DNTH103, and any developments or results in connection therewith, including the target product profile of DNTH103; the anticipated timing of the results from those studies and trials; expectations regarding the use of proceeds and the time period over which the Company's capital resources will be sufficient to fund its anticipated operations; and expectations regarding the market and potential opportunities for complement therapies, in particular with respect to DNTH103. DNTH103 is an investigational agent that is not approved as a therapy in any indication in any jurisdiction worldwide. The words "opportunity," "potential," "milestones," "runway," "will," "anticipate," "achieve," "near-term," "catalysts," "pursue," "pipeline," "believe," continue," "could," "estimate," "expect," " intend," "may," "might," "plan," "possible," "project," "project," "should," " strive," "would," "aim," "target," "commit," and similar expressions (including the negatives of these terms or variations of them) generally identify forward-looking statements, but the absence of these words does not mean that statement is not forward looking.

Actual results could differ materially from those included in the forward-looking statements due to various factors, risks and uncertainties, including, but not limited to, that preclinical testing of DNTH103 and data from clinical trials may not be predictive of the results or success of ongoing or later clinical trials, that the development of DNTH103 or the Company's compounds may take longer and/or cost more than planned, that the Company may be unable to successfully complete the clinical development of the Company's compounds, that the Company may be delayed in initiating, enrolling or completing any clinical trials, and that the Company's compounds may not receive regulatory approval or become commercially successful products. These and other risks and uncertainties are identified under the heading "Risk Factors" included in the Company's Annual Report on Form 10-K for the period ended December 31, 2023, and other filings that the Company has made and may make with the SEC in the future.

Nothing in this Presentation should be regarded as a representation by any person that the forward-looking statements set forth herein will be achieved or that any of the contemplated results of such forward-looking statements will be achieved. Dianthus undertakes no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise, except as required by law.



Advancing next-generation complement therapies to improve the lives of autoimmune disease patients

- Founded in 2019 to develop next-generation complement therapies to treat severe autoimmune diseases
- Lead program, **DNTH103**, is a potent investigational monoclonal antibody that targets the classical **complement pathway** by selectively inhibiting **active C1s** protein
- DNTH103 intended to be the first subcutaneous, self-administered injection dosed as infrequently as once-every-two-weeks to treat generalized Myasthenia Gravis
- Top-line Ph. 1 data confirm a ~60-day half-life, potent classical pathway inhibition, and a potentially differentiated safety profile
- Clinical proof-of-concept for classical pathway inhibition demonstrated in gMG, CIDP and MMN, validating the pipeline-in-a-product potential of DNTH103
- Initiated Ph. 2 trial in generalized Myasthenia Gravis in Q1'24 with top-line results anticipated in 2H'25; on track to initiate additional Ph. 2 trials in CIDP and MMN in '24
- Cash runway expected to fund operations into 2H'27

DNTH103 offers pipeline in a product, best-in-class potential in <u>multiple</u> neuromuscular indications

Generalized Myasthenia Gravis

Multi-billion \$ market today, with opportunity for a differentiated complement inhibitor to further penetrate and expand first-line biologics use

Ph. 2 ongoing

~60,000 U.S. patients

Chronic Inflammatory Demyelinating Polyneuropathy

Sanofi Ph. 2 Riliprubart efficacy validates active C1s MoA

DNTH103 demonstrates greater affinity & potency vs. Riliprubart across multiple head-to-head *in vitro* experiments

~15,000 U.S. patients

Multifocal Motor Neuropathy

Empasiprubart, an I.V. C2 inhibitor, validates classical pathway demonstrating efficacy in MMN patients

~5,000-10,000 U.S. patients

Clinical Development & Commercial Synergies

DNTH103's Potentially Best-in-Class Properties:

- Highly selective to classical pathway
- Potent active C1s inhibitor
- √ 60-day half-life observed in clinic
- ✓ Consistent, infrequent dosing
- ✓ Convenient, S.C. intended for self-admin. via autoinjector
- Differentiated safety profile

https://www.mgregistry.org/. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7033452/#. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3983019/. https://jnnp.bmj.com/content/90/9/981.long. Riliprubart Phase 2 at AAN 2024

gMG represents a multi billion-dollar opportunity with only two approved classes, each with room to improve

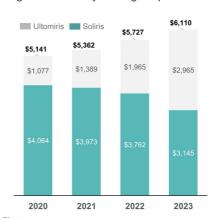
U.S. gMG estimated patient population: ~60,000

Complement Class

Soliris & Ultomiris¹

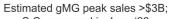
>\$6B in sales and growing; ~1/3 in gMG² (only I.V.)

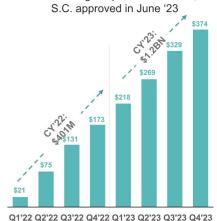
gMG driving Y/Y Ultomiris growth; U.S. growth driven by naïve gMG patients³



FcRn Class

Vyvgart I.V. sales in gMG showed rapid growth





\$ in millions. Soliris & Ultomiris 2021 sales account for 1/1 – 6/30 & 7/21 – 12/31. Evaluate Pharma https://www.mgrgistry.org/, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7033452/# 1 Approved in gMG, aHUS, MMOSD, PNH; 2 Wall Street research estimate; 3 Astra Zeneca O1 2024 results

CIDP is an attractive opportunity with clinical PoC demonstrated by Riliprubart, an active-C1s inhibitor

Neuromuscular indication with high unmet medical need

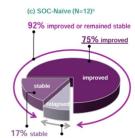
Evidence supports Classical Complement role in disease

~15,000
patients in the U.S. and no approved targeted biologics

Riliprubart
(active C1s inhibitor)
recently reported positive
Interim efficacy results¹

Sanofi Ph. 2 Riliprubart (SAR445088) Data Validates Active C1s in CIDP1; Maintenance regimen of 600mg/4mL S.C. weekly²



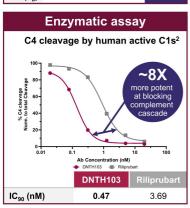


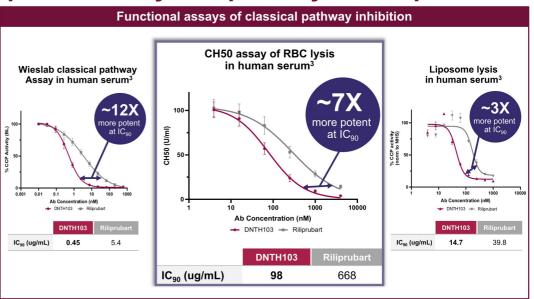
DNTH103 target dose of 300mg/2mL S.C. every two weeks may offer more convenient, lower volume dosing for CIDP patients

Riliprubart Phase 2 at AAN 2024
 Pg 76: Riliprubart patent filing

DNTH103 has superior affinity and potency vs. Riliprubart







DNTH103 consistently outperforms Riliprubart in affinity and potency when compared head-to-head across multiple in vitro experiments

Notes: Rilliprubart is produced using sequence from patent WO2018071676A1

Data shown is dissociation constant (K₀) and the average of 3 different experiments performed at independent laboratories

Data is quantitative analysis of active C1s protease inhibition of cleaved C4 fragments in the presence of DNTH103 or Rilliprubart

Data shown are the average of 3 experiments conducted for each of the functional assays (CH50 hemolysis, Wieslab and Liposome). CH50 and Wieslab were confirmed at independent laboratories

MMN is an attractive opportunity with clinical PoC demonstrated via classical pathway inhibition

Neuromuscular indication with high unmet medical need





EMPA IV Placebo argenx

EMPA IV Placebo argenx

HR (95% CI) = 0.09 (0.02; 0.44)

At Risk

18 18 18 18 18 18 17 16 16 16 15 14

Empasiprubart (Q1-2W I.V., C2 inhibitor)
Demonstrating Efficacy Signals¹

Evidence supports Classical Complement role in disease



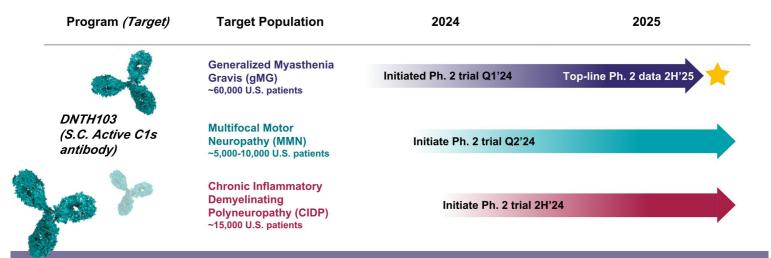


"We hypothesize that targeting the classical complement pathway is a potential therapeutic approach in MMN. We investigated the interaction of circulating anti-GM1 IgM from patients with MMN with complement in detail using iPSC-derived MNs. In this disease model for MMN, we evaluated the effects of ARGX-117, a novel monoclonal antibody that inhibits complement factor C2." - Neurol Neuroimmunol Neuroinflamm. 2022 Jan; 9(1): e1107

DNTH103, a low-volume Q2W S.C., Phase 2 trial for MMN planned for initiation in Q2'24

https://www.us.argenx.com/news/argenx-highlights-2024-strategic-priorities

DNTH103 is rapidly advancing into three Phase 2 trials in 2024 with top-line gMG data in 2025



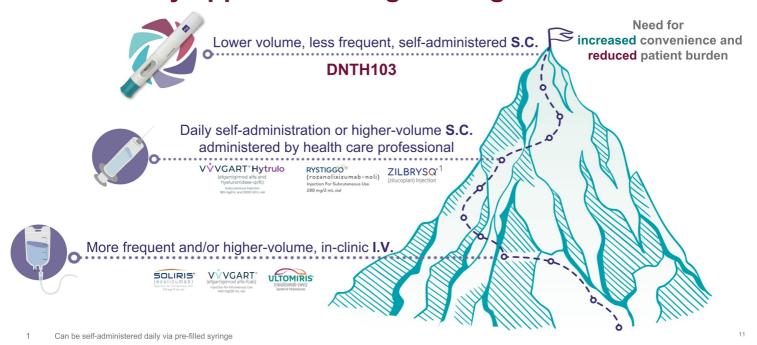
DNTH103 has potential to expand into multiple classical pathway-driven diseases with its best-in-class profile

ttps://www.mgregistry.org/, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7033452/#, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3983019/, https://jnnp.bmj.com/content/90/9/981.long



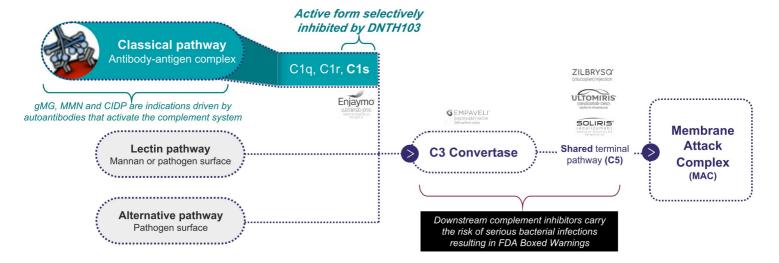
DNTH103 Opportunity in Myasthenia Gravis

DNTH103 target product profile is highly differentiated vs. currently approved biologics for gMG



Complement inhibitors are well established in gMG and other severe autoimmune disorders

Targeting C1s preserves critical immune activity of lectin and alternative pathways, with the aim to provide a safer therapeutic option versus terminal pathway inhibitors



C1s is a clinically validated target in the classical complement pathway with an FDA approved therapy

1 Classical pathway

The only pathway activated by the presence of IgG and IgM, which bind to the **C1 complex**

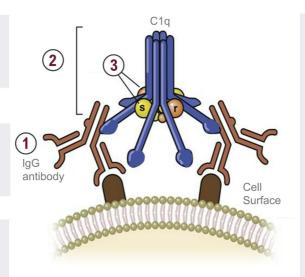
The C1 complex

The initial component of the classical complement pathway consisting of C1q, C1r and C1s

3

Active C1s

A serine protease that executes catalytic function of the C1 complex, leading to MAC formation



C1s is the only target of the C1 complex with an FDA approved therapy

Enjaymo®, FDA approved in 2022 for CAD, is a C1s inhibitor but is not selective to the active form and dosed I.V. at 6,500-7,500mg every two weeks

Active C1s inhibition has recently demonstrated clinical benefit in CIDP

Riliprubart results show clinical PoC for inhibiting active C1s in autoimmune neuromuscular diseases

Enjaymo® information sourced from prescribing information

DNTH103 exploits validated C1s biology and has been designed with best-in-class properties

High selectivity and potency

- >10,000-fold binding affinity for Active C1s versus proC1s
- Picomolar binding affinity

Extended half-life

- Validated YTE half-life extension technology applied
- Clinical data demonstrates half-life of ~60 days



Low volume S.C. delivery

- Successful manufacturing of 150mg/mL formulation
- Low viscosity
- Favorable stability profile

Novel IP

 Provisional patent applications for composition of matter and method of use expected to expire no earlier than 2043

DNTH103 Target Product Profile



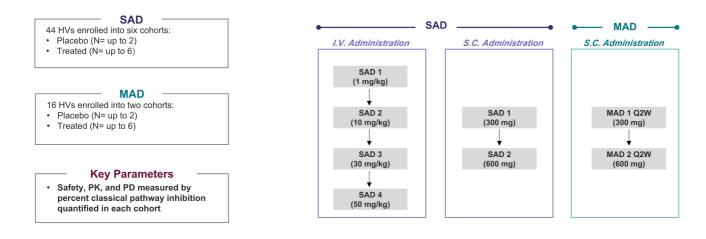
S.C. self-administration

300mg in a 2mL pre-filled auto-injector suitable for convenient, self-administration



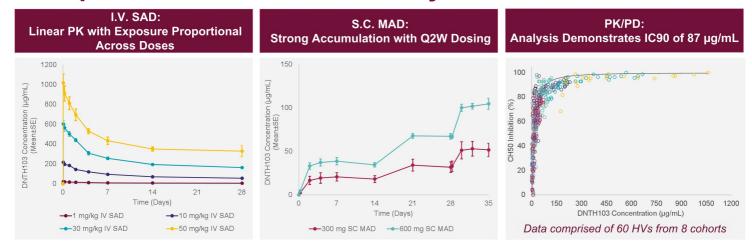


DNTH103 Phase 1 healthy volunteer study was designed to validate extended half-life, potency and safety



In completed cohorts, 60 healthy volunteers completed dosing as of December 2023

DNTH103 has demonstrated deep and sustained complement inhibition in healthy volunteers



DNTH103 demonstrated a ~60-day half-life and IC90 of 87 µg/mL

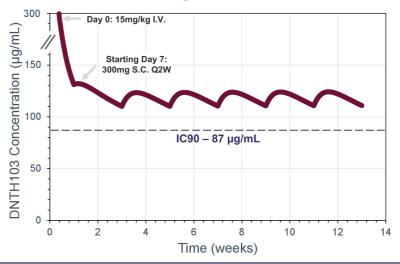
DNTH103 Phase 1 data confirms potent inhibition of the classical pathway as a Q2W S.C. injection

- Ph. 1 Data Confirms

- ~60-day half-life
- IC90 calculated at 87 μg/mL

Dosing Modeled

- 15mg/kg I.V. on Day 0
- 300mg S.C. Q2W starting Day 7



Simulation using data from 60 healthy volunteers dosed across multiple cohorts demonstrates potent inhibition with infrequent S.C. dosing

4.0

DNTH103 was generally well tolerated, with a favorable safety profile in Phase 1

- · No standard safety lab findings (hematology, chemistry, coagulation LFTS and renal function)
- No serious adverse events
- No infection adverse event signal and no infections related to encapsulated bacteria

	I.V. & S.C. SAD (n=44)		
	Pooled DNTH103 I.V.	Pooled DNTH103 S.C.	Pooled Placebo I.V. / S.C.
	(n=21)	(n=12)	(n=11)
Participant with:			
Any AEs	13 (62%)	9 (75%)	7 (64%)
Any SAEs	0	0	0
Grade 3 / 4 AEs	0	0	0
Treatment Related AEs	2 (10%)	1 (8%)	0

S.C. MAD (n=16)

Pooled

Placebo S.C.

(n=4)

4 (100%)

0

0

Pooled

DNTH103 S.C.

(n=12)

8 (67%)

0

0

2 (17%)

- Five participants experienced mild/moderate Treatment Related AEs
 - Two participants (one in each 300mg and 600mg S.C. MAD cohorts) had a mild or moderate injection site reactions (ISRs); no intervention was required and both participants completed treatment
 - One participant experienced several non-specific AEs during infusion; infusion was paused for 8 minutes and restarted at the same rate without sequelae
 - Two participants in 50mg/kg SAD I.V.1 cohort became ANA2 positive at Day 57; both participants had no evidence of SLE and both tested negative for dsDNA3
 - One participant in 600mg S.C. SAD reported vomiting on Day 1, which resolved on same day
- Highest dose to be used in Phase 2 trials is single I.V. loading dose of 20mg/kg
 Non-specific indicator of autoimmune disease present in up to 25% of healthy individuals: https://www.labcorp.com/assets-media/2785
 Anti-double-stranded deoxyribonucleic acid antibodies are highly specific markers of systemic lupus erythematosus or SLE

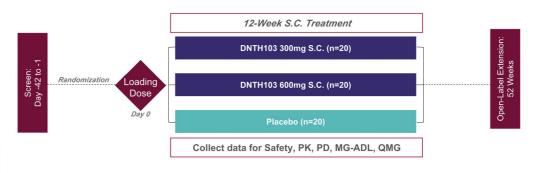
DNTH103 S.C. gMG Phase 2 trial initiated in Q1'24

A global, multicenter, randomized, double-blind, placebo-controlled study to evaluate the safety, efficacy, and PK / PD of DNTH103 administered S.C following initial loading dose

Preliminary Design

- Design: 60 male and female subjects randomized to receive either DNTH103 or placebo for 13 weeks
- Inclusion: ≥18 years old with AChR antibody + gMG
- Dosing: 15 or 20mg/kg I.V. Loading Dose followed by 300mg or 600mg¹ S.C. Q2W starting Day 7
- Assessments: Monitored to assess AEs, PK, PD, MG-ADL and QMG scores

Primary: Safety
Secondary: Efficacy (MG-ADL and QMG)



Top-line data expected in 2H'25

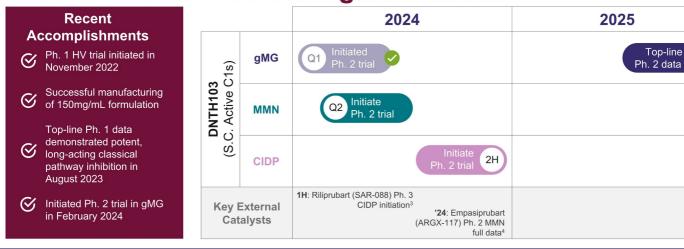


600mg S.C. Q2W dosing surpasses IC95, currently calculated at 149 μg/mL



Corporate

Strategy to initiate multiple Phase 2 trials in 2024 ahead of transformative Phase 2 gMG readout



Strong balance sheet with ~\$377M1 of cash and runway into the second half of 2027

~34.2M shares outstanding²

- Includes unaudited cash, cash equivalents and short-term investments as of 3/31/24
- Shares outstanding on a pro forma basis, which assumes the exercise of all outstanding pre-funded warrants
 - Based on Sanofi public disclosure in January 2024
 Based on argenx public disclosure in January 2024

Top-line 2H

Accomplished team of biotech industry veterans and scientists committed to bringing innovation to market





Marino Garcia President & CEO

Sankalp Gokhale, M.D.

Head of Clinical

Development, Neurology



Simrat Randhawa, M.D. Chief Medical Officer

Head of Clinical

Development, Operations



Rvan Savitz

Head of Regulatory Affairs



Jeffrey Stavenhagen, Ph.D. Chief Scientific Officer

Edward Carr

Chief Accounting Officer



Adam Veness, Esq.

Jud Taylor

Head of Technical



Kristina Maximenko Chief People Officer



Jennifer Davis Ruff Head of Investor Relations & Corporate Affairs

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Venture Partner, 5AM Ventures

Jonathan Violin, Ph.D.

President & CEO, Dianthus

Venture Partner, Fairmount, Co-founder of Dianthus, Board Member, Astria Therapeutics, and former President/CEO of Viridian Therapeutics

Marino Garcia

Ronny Hashmony, M.D. Head of Medical Affairs



SENIOR MANAGEMENT

Head of Quality



Scott Nogi Head of Business Operations

Select Experience Includes:





















































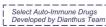




















CellCept SOLIRIS* ULTOMIRS* Paulisande deal (nodesported fine)

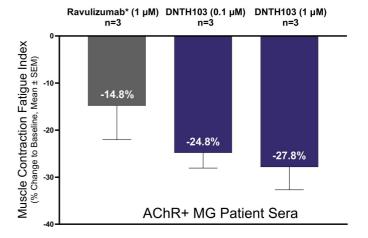




Appendix

DNTH103 improves neurotransmission and muscle contraction in an AChR+ MG model

- Serum from MG patients used in a validated in vitro MG model^{1,2,3}
- Assessed improvement in neurotransmission and muscle contraction of ravulizumab* and DNTH103, as measured by decrease in muscle contraction fatigue
- **Results confirm DNTH103 improved** neurotransmission and muscle contraction

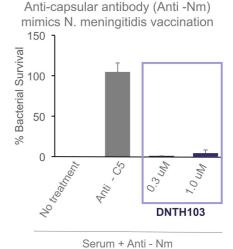


Results provide further scientific rationale for DNTH103 in gMG

https://pubmed.ncbi.nlm.nih.gov/34881241/, 2 - https://pubmed.ncbi.nlm.nih.gov/31846349/, 3 - https://pubmed.ncbi.nlm.nih.gov/30867827/ Engineered using patent sequence

DNTH103 *in vitro* study demonstrates lower risk of *Neisseria meningitidis* infections

- Protection against infection is a critical function of the complement pathway
- DNTH103 selectively inhibits the classical pathway, leaving the alternative and lectin-activated defense pathways intact
- An in vitro assay measured antibody-dependent complement-mediated killing of N. meningitidis in the presence of DNTH103 and anti-C5 (ravulizumab*)
- In this assay, DNTH103 <u>maintained</u> bacterial killing, potentially leading to a decreased risk of infection vs. C5 inhibitors



Results further validate the differentiated safety profile of DNTH103 as a selective classical pathway inhibitor consistent with ENJAYMO, an approved C1S inhibitor without an FDA Boxed Warning or REMS

* Engineered using patent sequence 26

C5 inhibitor Ultomiris carries FDA Boxed Warning and **REMS** requirement

ULTOMIRIS® (ravulizumab-cwvz) injection, for intravenous or subcutaneous use Initial U.S. Approval: 2018

> WARNING: SERIOUS MENINGOCOCCAL INFECTIONS See full prescribing information for complete boxed warning.

ULTOMIRIS increases the risk of serious and life-threatening infections caused by Neisseria meningitidis.

- Complete or update meningococcal vaccination at least 2 weeks prior to the first dose of ULTOMIRIS, unless the risks of delaying ULTOMIRIS outweigh the risks of developing a serious infection. Comply with the most current Advisory Committee on Immunization Practices (ACIP) recommendations for meningococcal vaccination in patients receiving a complement inhibitor. (5.1)
- Patients receiving ULTOMIRIS are at increased risk for invasive disease caused by *N. meningitidis*, even if they develop antibodies following vaccination. Monitor patients for early signs and symptoms of meningococcal infections and evaluate immediately if infection is

ULTOMIRIS is available only through a restricted program called ULTOMIRIS and SOLIRIS REMS. (5.2)

PATIENT SAFETY CARD

Important Safety Information for Patients Taking ULTOMIRIS (ravulizumab-cwvz) or

ULTOMIRIS* and SOLIRIS* can increase your chance of getting serious meningococcal infections. These infections may quickly become life-threatening or cause death if not recognized and treated early. If you experience any of the following signs and symptoms of serious meningococcal infection, you should immediately. call your healthcare provider or seek emergency medical care, preferably in a major emergency medical care center:

- fever and a rash
- fever with high heart rate
- headache with nausea or vomiting
- headache and fever
- headache with stiff neck or stiff back
- confusion
- · eyes sensitive to light
- muscle aches with flu-like symptoms



Get emergency medical care right away if you have any of these signs and symptoms and show this card to any healthcare provider who

Your risk of meningococcal infection may continue for several months after your last dose of ULTOMIRIS or SOLIRIS. For ULTOMIRIS, keep this card with you at all times during your treatment and for 8 months after your last dose. For **SOLIRIS**, keep this card with you at all times during your treatment and for 3 months after your last dose.

ULTOMIRIS SOLIRIS

PATIENT SAFETY CARD

Information for the Treating Healthcare Provider

This patient has been prescribed ULTOMIRIS (ravulizumab-cwvz) or SOLIRIS (eculizumab) therapy, which increases the patient's susceptibility to meningococcal infections (Neisseria meningitidis) or other general infections.

- Meningococcal infections may become rapidly life-threatening or fatal if not recognized and treated early.
- Closely monitor patients for early signs and symptoms of serious meningococcal infections and evaluate immediately if infection is suspected. Promptly treat known infections.
- Contact the healthcare provider who prescribed ULTOMIRIS or SOLIRIS (listed below) as soon as possible if the patient has signs or symptoms of serious meningococcal infection.

For more information about ULTOMIRIS or SOLIRIS, please refer to the Prescribing Information. Report adverse events suggestive of serious meningococcal infections at 1-844-259-6783.

Prescriber Name Prescriber Phone ULTOMIRIS SOLIRIS

Tegistered trademarks of Alexion Pharmacouticals, inc. All rights reserved