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 21, 2023

DIAMEDICA THERAPEUTICS INC.

(Exact name of registrant as specified in its charter) 001-36291 (Commission File Number)

Not Applicable (IRS Employer Identification No.)

British Columbia, Canada (State or other jurisdiction of incorporation) 301 Carlson Parkway, Suite 210 Minneapolis, Minnesota (Address of principal executive offices)

55305 (Zip Code)

(763) 496-5454

(Registrant's telephone number, including area code)

Not Applicable

(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:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Voting common shares, no par value per share	DMAC	The Nasdaq Stock Market LLC

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

Emerging growth company \boxtimes

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.

Item 7.01 Regulation FD Disclosure.

On June 21, 2023, DiaMedica Therapeutics Inc. (the "Company") made available an investor presentation in connection with its announcement that the U.S. Food and Drug Administration (the "FDA") has removed the clinical hold placed on the investigational new drug application for the Company's ReMEDy2 phase 2/3 clinical trial studying DM199 in the treatment of acute ischemic stroke (the "Investor Presentation"). The Investor Presentation is furnished as Exhibit 99.1 to this Current Report on Form 8-K and the information set forth therein is incorporated herein by reference and constitutes a part of this Item 7.01.

Representatives of the Company intend to use the Investor Presentation in connection with presentations at investor conferences, meetings and in other forums. The Company intends to disclose the information contained in the Investor Presentation, in whole or in part, and with updates and possibly modifications, in connection with presentations to investors, analysts and others and on its corporate website.

The information contained in this Current Report on Form 8-K and the exhibit hereto is summary information that is intended to be considered in the context of the Company's United States Securities and Exchange Commission (the "SEC") filings and other public announcements that the Company may make, by press release or otherwise, from time to time. The Company undertakes no duty or obligation to publicly update or revise the information contained in this report and the exhibit hereto, although it may do so from time to time as its management believes is warranted. Any such updating may be made through the filing of other reports or documents with the SEC, through press releases or through other public disclosure. By filing this report and furnishing this information, the Company makes no admission as to the materiality of any information contained in this report, including the exhibit hereto.

The information contained in this report and the exhibit hereto shall not be deemed to be "filed" with the SEC for purposes of Section 18 of the United States Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall it be deemed to be incorporated by reference into any registration statement or other document filed by the Company under the United States Securities Act of 1933, as amended, or the Exchange Act, except as may be expressly set forth by specific reference in such filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No.	Description
99.1	Investor Presentation issued by DiaMedica Therapeutics Inc. on June 21, 2023 (furnished herewith)
104	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.

DIAMEDICA THERAPEUTICS INC. By: /s/ Scott Kellen Scott Kellen Chief Financial Officer and Secretary

Date: June 21, 2023



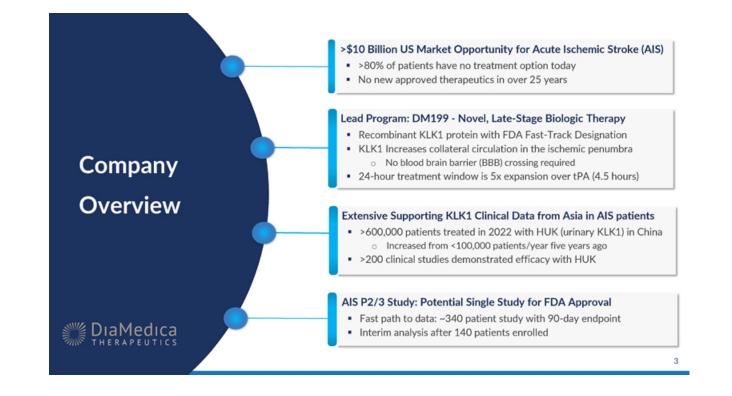
Cautionary Note Regarding Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of the U.S. Private Securities Litigation Reform Act of 1995 and forward-looking information that are based on the beliefs of management and reflect management's current expectations. When used in this presentation, the words "estimate," "believe," "anticipate," "intend," "expect," "plan," "continue," "potential," "will," "may" or "should," the negative of these words or such variations thereon or comparable terminology and the use of future dates are intended to identify forward-looking statements and information.

The forward-looking statements reflect management's current plans, objectives, market opportunity and other estimates, expectations and intentions, benefits and potential of DM199 and anticipated timing of future events and involve assumptions that may never materialize of may prove to be incorrect and inherently involve significant risks and uncertainties, including factors beyond DiaMedica's control that could cause actual results, performance or achievements, or other future events, to be materially different from any future results, performance or achievements expressed or implied by such forwardlooking statements. Applicable risks and uncertainties include, among others, the risk that the Company's belief as to the cause of the hypotension events that occurred and led to the clinical hold or that its plan to resolve the issues and prevent future events may not be successful; uncertainties relating to regulatory applications and related filing and approval timelines; the possibility of additional future adverse events associated with or unfavorable results from the ReMEDy2 trial; the possibility of unfavorable results from DiaMedica's ongoing or future clinical trials of DM199; the risk that existing preclinical and clinical data may not be predictive of the results of ongoing or later clinical trials; DiaMedica's plans to develop, obtain regulatory approval for and commercialize its DM199 product candidate for the treatment of acute ischemic stroke and chronic kidney disease and its expectations regarding the benefits of DM199; DiaMedica's ability to conduct successful clinical testing of DM199 and within its anticipated parameters, enrollment numbers, costs and timeframes; the adaptive design of the ReMEDy2 trial and the possibility that the targeted enrollment and other aspects of the trial could change depending upon certain factors, including additional input from the FDA and the blinded interim analysis; the perceived benefits of DM199 over existing treatment options; the potential direct or indirect impact of COVID-19, hospital and medical facility staffing shortages, and worldwide global supply chain shortages on DiaMedica's business and clinical trials, including its ability to meet its site activation and enrollment goals; uncertainties relating to regulatory applications and related filing and approval timelines; DiaMedica's reliance on collaboration with third parties to conduct clinical trials; DiaMedica's ability to continue to obtain funding for its operations, including funding necessary to complete planned clinical trials and obtain regulatory approvals for DM199 for acute ischemic stroke and chronic kidney disease, and the risks identified under the heading "Risk Factors" in DiaMedica's annual report on Form 10-K for the fiscal year ended December 31, 2022 and subsequent U.S. Securities and Exchange Commission filings, including its most recent quarterly report on Form 10-Q for the quarterly period ended March 31, 2023, including its most recent quarterly report on Form 10-Q for the quarterly period ended March 31, 2023.

Other risk and uncertainties of which DiaMedica is not currently aware may also affect the Company's forward-looking statements and may cause actual results and the timing of events to differ materially from those anticipated. All forward-looking statements contained in this presentation speak only as of the date on which they were made and are based on management's assumptions and estimates as of such date. DiaMedica undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by applicable law.

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Recent Developments

Significantly Strengthened Senior Leadership Team	 4 of 6 members of the senior leadership joined DiaMedica in the last 18 months New Chief Medical Officer, Chief Commercial Officer, Chief Business Officer and Head of Clinical Operations 	Key Leadership Experience At: Roche VIFOR PHARMA Pfizer biocryst Genentech
Significantly Strengthened Board of Directors	 3 of 6 non-executive Board members joined DiaMedica in the last 18 months Adds critical competencies to benefit our P2/3 study execution 	Key Leadership Experience At: Genentech Peplimune Medtronic Shire
FDA - Full Lift of Clinical Hold	 FDA approves full lift of the clinical hold and re- start of P2/3 study in acute ischemic stroke On hold since July 2022 	<u>Key Clinical Protocol Updates:</u> 1. Single Primary Endpoint (MRS 0-1) 2. Additional Safety Precautions
		4

DiaMedica Pipeline

Current Focus is on AIS Pivotal Study

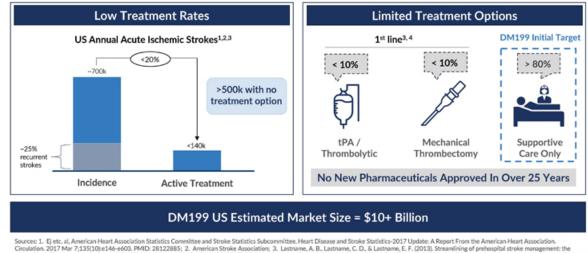
	Program	Product	Preclinical	Phase I	Phase 2	Pivotal	Milestones
Neuro	Acute Ischemic Stroke (AIS): Primary: Stroke Recovery (mRS 0-1) Sub-Study: Stroke Recurrence	DM199 IV/SC	ReMEDy2 Pive	otal Phase 2/3			√ FDA clinical hold lifted in June 2023 √ FDA Fast Tack Designation
Cardio- Renal	Planned to be Disclosed in 2H 2023	DM199	Phase 2 Ready				To be disclosed indication in Cardio-renal
Other	Severe Inflammatory Diseases	DM300	Preclinical				Ongoing development

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High Unmet Need in Acute Ischemic Stroke

>7.5 Million Acute Ischemic Strokes Globally⁵: ~80% of Patients Have No Treatment Options



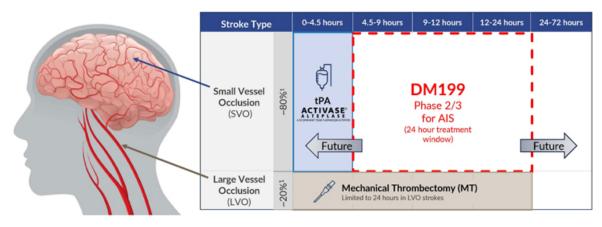
Sources: 1. Ej etc. al, American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart Disease and Stroke Statistics-2017 Update: A Report From the American Heart Association. Circulation. 2017 Mar 7:135(10):e146-e603. PMID: 28122885; 2. American Stroke Association; 3. Lastname, A. B., Lastname, E. F. (2013). Streamlining of prehospital stroke management: the golden hour. The Lancet Neurology, 12(6): 585-586. doi: 10.1016/s1474-442(31)370078-5; 4. Kansagra AP, Goyal MS, Hamilton S, Albers GW. Trends in Mechanical Thrombeetomy for Acute Ischemic Stroke in the United States: A Nationwide Analysis from 2012 to 2016. Stroke. 2019;50(3):570-577. doi:10.1161/STROKEAHA.118.023600; 5. World Stroke Organization Global Fact Sheet 2022

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DM199 Initial Target in AIS – Significant Whitespace Opportunity

>500K Patients in the US with No Treatment Option

- The 4.5-hour time window for tPA treatment significantly limits patient eligibility
- 92%¹ of patients can reach the hospital emergency department within 24 hours



DiaMedica 1. Market research conducted by SyncosOne in 2020 and Journal of Stroke and Cerebrovascular Diseases, Volume 29, Issue 2, February 2020.

Low KLK1 Levels Independently Associated With AIS Incidence & Poor Outcomes DM199 Pharmacological Approach is to Increase KLK1 Levels to Treat & Prevent Recurrent Stroke

First Stroke and Predictor of Recurrent Stroke	Had 80% Lower KLK1 on Average
(N=2,478, P<0.001)	(N=75; P<0.05)
Plasma Tissue Kallikrein Level Is Negatively Associated with Incident and Recurrent Stroke: A Multicenter Case–Control Study in China	Hinderi Benes Maden Volume 2018. Acride 10: 1524171. 6 groups Merete Georgia 11:55-152471. 6 groups Hinderw Research Article High Level of Serum Tissue Kallikrein Is Associated with Favorable Outcome in Acute Ischemic Stroke Patients
Gin Zhang, PhD, ¹² Hu Ding, PhD, ¹ Jiangtao Yan, PhD, ¹ Wei Wang, PhD, ³	Fei Wu G., ' Yifeng Ling G., ' Lumeng Yang G., ' Xin Cheng, ' Qiang Dong G., ^{1,3}
Aiqun Ma, PhD, ⁴ Zhiming Zhu, PhD, ⁶ Katherine Cianflone, PhD, ⁶ Frank B. Hu, MD, PhD, ²	and Wenjie Cao G.'
Rutai Hui, PhD, ⁶ and Dao Wen Wang, MD, PhD ¹	¹ apartment of Norrday, Hankane Haytiel, Rada Usiomity, Shanghei China
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who have blood pressme and potent the heart, kidney, and blood vessels. Reduction in TK levels as associated	¹ Stark Key Labourary of Meldara Naorolishy, Hankane Daironity, Shanghei China
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who conducted a cost-correll study with 1.268 strake patients (Pd1 cerebral infertion, 32 cerebral	Rozenel 8 January 2019, Accepted 11 April 2019, Published 2 Jane 2019
biodytice and 1210 corrects). Planna TK levels were measured with an enzyme-hidd immunostoper tassy, Mo	Academic Kin: Shih-Pag Hu
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Human Urinary KLK1 (HUK): Safe and Efficacious Treatment For AIS

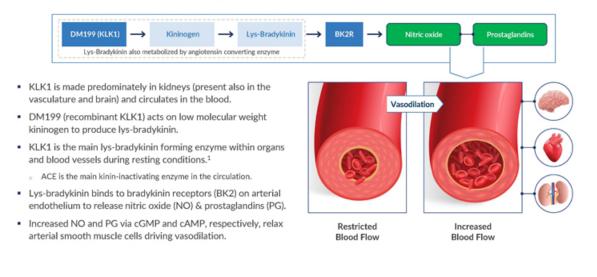
Standard of Care in China: >600k AIS patients Treated in 2022

Journal of INTERNATIONAL Meta Analysis MEDICAL RESEARCH HUK for AIS: I of International Medical Research 48(9) I-10 © The Authon(1) 2020 Article reuse guidelines: tagepub.com/journali-permissione DOI: 10.1177/0300040520H3452 Marketed by Shanghai Pharmaceuticals under Kailikang[®]. Efficacy and safety of human urinary kallidinogenase for Ameliorates neurological symptoms with few adverse events.¹ acute ischemic stroke: (\$SAGE >600,000 AIS patients treated in China (2022) a meta-analysis 。 Up from <100,000 patients/year five years ago Abstract Objective: Human urinary kallidinogenase (HUK) is a glycoprotein extracted from human urine that is used to treat stroke by triggering positive regulation of the kallikrein-kinin system. Our aim was to evaluate the efficacy and safety of HUK treatment for acute ischemic stroke. Methods: We searched the online databases PubMed, Embase, Cochrane Library, Google Included in National Basic Medical Insurance in 2020.² Scholar, and China National Knowledge Infrastructure (CNKI) for papers published between January 2015 and December 2019. The quality of each trial was assessed using the Cochrane >200 clinical studies demonstrating efficacy including: Reviewers' Handbook. Randomized controlled trials of HUK in patients with acute ischemic Improved stroke patient outcomes - NIHSS, mRS and BI. stroke were included. Results: Sixteen trials with 1326 participants were included. The HUK injection groups had MRI Imaging: ↑ blood flow, ↑ blood vessels, ↓ischemia in the 0 Nexus: sixteen trais with 1326 participants were included. The PIOK injection groups had more neurological improvement than the control groups in National Institutes of Health Stroke Scale scores (mean difference, -1.65; 95% confidence interval [CI], -2.12 to -1.71) and clinical efficacy (1.30; 95% CL 1.21 to 1.41). Subgroup analysis indicated that age may influence hetero-geneity. Eleven trials reported adverse effects and there were no significant differences between the control and HUK groups (risk difference, 0.01; 95% CL, -0.02 to 0.04). penumbra and ↓ infarct size. Reduced stroke recurrence. 0 Conclusions: HUK ameliorates neurological symptoms in stroke patients with few adverse effects. Further high-quality, large-scale randomized trials are needed to confirm these results. Journal of International Medical Research, 48(9) 1–10, 2020; https://journals.sagepub.com/doi/full/10.1177/0300060520943452
 Shanghai Pharma/Techpool website: http://www.techpool.com.cn/press/r/5ddf3ed2535416541805af75 🖱 DiaMedica

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DM199 Novel Mechanism of Action (MOA)

Local Vasodilation in Stroke and Other Vascular Diseases



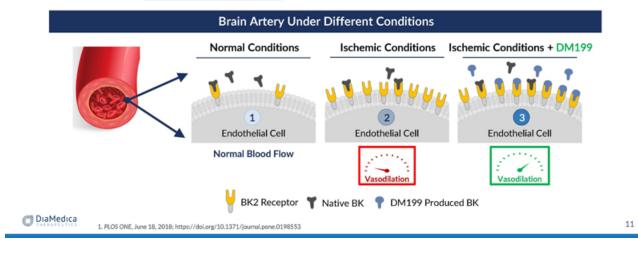
DiaMedica 1. Journal of Personalized Medicine, 9(1), 16. Marin et al. (2019). Kallikrein/K1, Klinins, and ACE/Kininase II in Homeostasis and in Disease Insight From Human and Experimental Genetic Studies, Therapeutic Implication.

Ischemia Naturally Induces Upregulation of Bradykinin2 (BK2) Receptors

1 The BK2 receptor plays a critical role in regulating vascular tone and blood pressure under normal conditions.

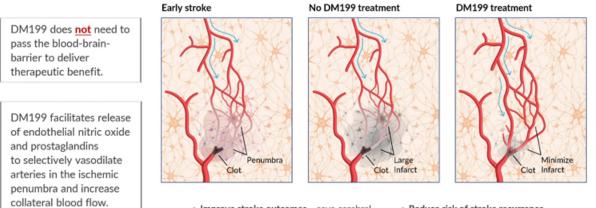
In response to ischemic conditions, the BK2 receptors are upregulated in affected tissues, including the brain.¹

3 DM199 (recombinant KLK1) produces Bradykinin (BK) which activates the upregulated BK2 receptors in the affected arteries (ischemic penumbra), improving collateral circulation to increase blood flow and oxygenation to the ischemic penumbra.



DM199 MOA: Improve Collateral Circulation in Acute Ischemic Stroke

Novel Mechanism With Potential to Improve Stroke Outcomes & Reduce Risk of Stroke Recurrence

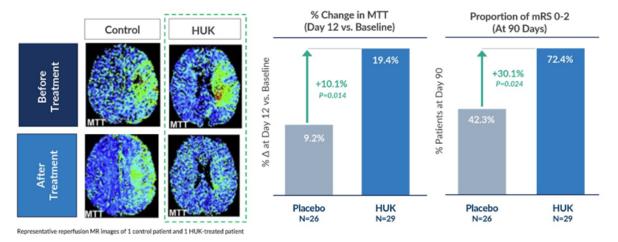


- Improve stroke outcomes save cerebral tissue in the ischemic penumbra reducing the size and impact of the stroke
 the rite stroke
- Reduce risk of stroke recurrence improved collateral blood flow reduces the risk of arterial re-occlusion (stroke)

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Human Urinary KLK1 (HUK) Improved Cerebral Blood Flow and Patient Outcomes

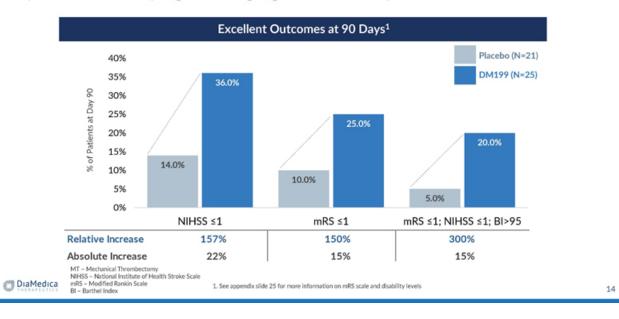
MTT (Mean Transit Time) Assesses Blood Flow Velocity in the Brain of AIS Patients



Improved relative MTT associated with favorable functional outcome OR=0.483 95% CI (0.243-0.960) p=0.0381

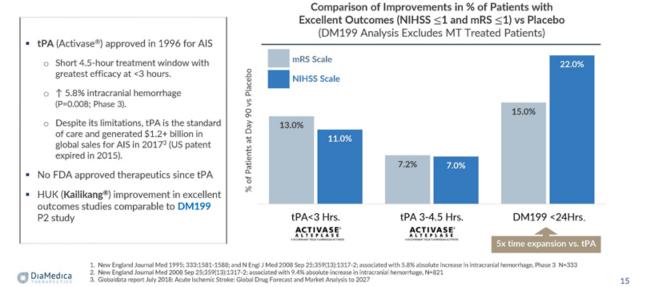
C DiaMedica	Journal of Stroke and Cerebrovascular Diseases, Vol. 24, No. 8 (August), 2015: pp 1730-1737 1 based on univariate regression analysis per 20% improvement	13
THERAPEUTICS	1 based on univariate regression analysis per 20% improvement.	13

DM199 P2 AIS Study: Outcomes Improved In Sub-Group Excluding MT



Population More Closely Aligns with Ongoing Pivotal P2/3 Study and HUK Use in China

DM199 P2 Study Shows Potential for Best-in-Class Improvement in AIS Outcomes DM199 Exceeded Clinical Efficacy Bar Established By tPA With 24-Hour Treatment Window



DM199 P2 AIS Study: Recurrence & Death Reduced In Sub-Group Excluding MT

Stroke-in Evolution / Recurrent Ischemic Events Deaths Placebo (N=21) 25% DM199 (N=25) 24.0% 20% % of Patients at Day 90 P=0.037 19.0% 15% 4/4 Fatal 10% 12.0% 5% 0.0% **Relative Decrease** -100% -50% -19% -12% Absolute Decrease O DiaMedica 16

Population More Closely Aligns with Ongoing Pivotal P2/3 Study and Use of HUK in China

ReMEDy2 DM199 P2/3 AIS Study Adaptations Based on Phase 2 Findings

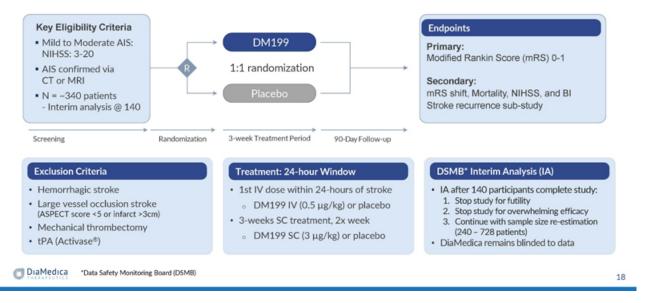
Aligning Study Population To Best Efficacy Signal Observed In Phase 2 & HUK-Treated Population

- · Believe the greatest clinical benefit will be observed in patients who do not receive mechanical thrombectomy (MT) and/or tPA.
- Excluding MT/tPA does not significantly erode the commercial opportunity since less than 20% of patients receive these treatments.

Exclude: MT	 No observed efficacy improvement in DM199 phase 2 AIS mechanical thrombectomy sub-group Genentech's P3 TIMELESS study of Tenecteplase (tPA) also showed no improvement in MT patients (May 2023 Once clot is physically removed via catheter, blood flow is re-established, and outcomes are favorable
Exclude: tPA	 Greater DM199 treatment effect observed in supportive care vs. tPA in DM199 phase 2 42% of patients in DM199 supportive care sub-group had NIHSS ≤1 despite higher baseline scores v. placebo Future potential DM199 label expansion as an adjunct therapy to tPA
Reduce Baseline Stroke Severity:	 Greater DM199 treatment effect vs placebo in less severe strokes. Lowered NIHSS baseline inclusion range from 6-25 to 3-20 Randomization mechanism to harmonize baseline characteristics between placebo and DM199

ReMEDy2 DM199 Pivotal P2/3 Study Design

With Interim Analysis to Manage Statistical Powering





DM199 Multi-layered IP Position and Potential for Regulatory Exclusivity

Key manufacturing challenges solved: protein activity, stability and economical scale

Protein Development

DiaMedica overcame challenges in recombinant KLK1 protein manufacturing

- Glycosylation is critical for optimal activity
 - o Identified correct configuration of high & low molecular weight glycoforms
- Manufacturing process
- 5+ companies unsuccessful in . moving recombinant KLK1 proteins to clinic

Patents and Trade Secrets

- Patents Composition of matter . Issued US/EU (2033)1
- Dosing, route of delivery and formulation
- Pending global (2038)
- Subcutaneous and improved PK Issued US/EU (2033)

Trade Secrets

- Manufacturing process
- **Regulatory Exclusivity Biologics**
- FDA: up to 12 years
- EMA: up to 10 years
- Japan: up to 8 years

DiaMedica 1. Eligible for regulatory patent term extension up to five years

- Commercial scale .
- High-efficiency / high-expressing . production based on proprietary high expressing cell line technology
- Exclusivity for production of KLK1
- . Highly stable drug substance with long shelf life
 - 1 year at 25°C and 3 years at 2-8°C completed

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Leadership

Rick Pauls

President & CEO

CEO of DiaMedica since 2010. Former venture capitalist with two funds, including co-founder and managing director of life sciences fund and early investor in DMAC.

Scott Kellen, CPA

Chief Financial Officer

25+ years in life sciences industry. CPA (inactive), held senior leadership roles including CFO and COO for several private & pubic (Nasdaq) companies.

Kirsten Gruis, M.D.

Chief Medical Officer

20+ years experience. Neurologist, former head of Roche neuro division, former CMO of several neurological biotech's, senior clinical development roles at Wave Life Sciences, Idera Pharma, Alnylam Pharma and Pfizer.

Dominic Cundari

Chief Commercial Officer

30+ years pharma experience. Led product launches with tPA (Activase®) for acute ischemic stroke and Lucentis® for retinal diseases at Genentech.

David Wambeke

Chief Business Officer

15+ years life sciences / biotech investment banking experience. Completed more than 100 financings and M&A transactions. US Army Purple Heart Recipient.

Julie Daves, MSHS, CCRP

SVP Clinical Development Operations 20 years clinical operations experience. Led clinical teams in both early & late phases including Sanifit (Vifor) and Array BioPharma (Pfizer).

Board of Directors

Richard Pilnik

Chairman of the Board 30+ years in executive commercial roles at Lilly, Quintiles. President Vigor Medical Services.

Michael Giuffre, M.D.

Clinical Professor of Cardiac Sciences and Pediatrics at University of Calgary. CSO, COB of FoodCheck Systems, Inc.

Richard Kuntz, M.D., M.Sc.

25+ years in life sciences most recently serving as Chief Medical Officer and Chief Scientific Officer for Medtronic where he held the position for over a decade.

Tanya Lewis

25+ years in regulatory drug development experience including approvals of five drugs. Most recently Chief Development Operations Officer at Replimune.

James Parsons

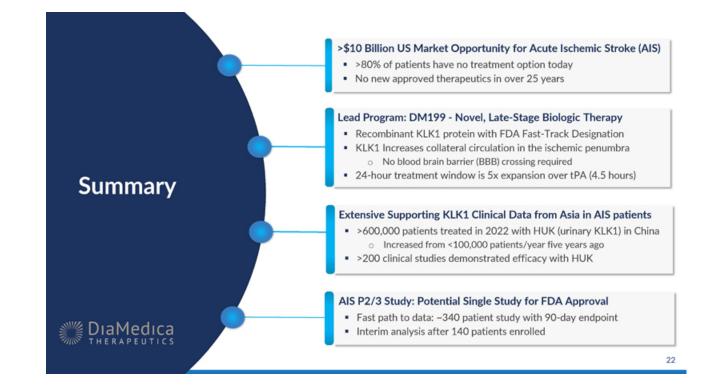
20+ years as a life sciences CFO for several companies. Former CFO Trillium Therapeutics (Acquired by Pfizer for ~\$2.2B).

Rick Pauls

See Leadership for details.

Charles Semba, M.D.

20+ years drug development experience at Genentech where he led development of Activase[®] and Lucentis[®], Shire, ForSight VISION5, and Graybug. Currently CMO of Eluminex.





Thank you!

NASDAQ: DMAC



www.diamedica.com

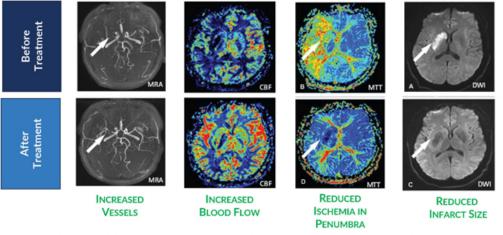


Modified Rankin Scale (mRS) Assesses the Level of Disability

Normal life		Low disability	Moderate disability	Severe disability		Death
0	1	2	3	4	5	6
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No Symptoms	No significant disability despite symptoms; able to carry out all usual duties and activities	Slight disability; unable to carry out all previous activities, but able to look after own affairs without assistance	requiring some help, but able to walk without assistance	Mod-severe disability; unable to walk without assistance and unable to attend to own bodily needs without assistance	Severe disability; bedridden, incontinent and requiring constant nursing care and attention	Death of the patient

Human Urinary KLK1 (HUK) Increased Collateral Blood Flow After Stroke

Magnetic Resonance Imaging (MRI) Confirmed Improved Blood Flow after Day 14 Days Treatment



Taken together the MR imaging findings demonstrate HUK/KLK1, via focal arterial vasodilation, can increase collateral blood flow specifically to the area of brain affected by an acute ischemic stroke

Mia et all, Neurosciences 2016; Vol. 21 (2)