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): February 7, 2023

PRAXIS PRECISION MEDICINES, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 001-39620 (Commission File Number) 47-5195942 (I.R.S. Employer Identification No.)

Praxis Precision Medicines, Inc. 99 High Street, 30th Floor Boston, Massachusetts 02110 (Address of principal executive offices, including zip code)

(617) 300-8460

(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))

D Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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

<u>Title of each class</u> Common Stock, \$0.0001 par value per share Trade <u>Symbol(s)</u> PRAX Name of each exchange on which registered The Nasdaq Global Select 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 $\ \square$

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 2.02. Results of Operations and Financial Condition.

On February 7, 2023, Praxis Precision Medicines, Inc. (the "Company") announced its financial results for the quarter and full year ended December 31, 2022. A copy of the press release is being furnished as Exhibit 99.1 to this Current Report on Form 8-K.

Item 7.01. Regulation FD Disclosure.

On February 7, 2023, the Company updated its corporate presentation for use in meetings with investors, analysts and others. The presentation is available in the "Investors + Media" portion of the Company's website at investors.praxismedicines.com and a copy is furnished as Exhibit 99.2 to this Current Report on Form 8-K.

The information in this Current Report on Form 8-K under Items 2.02 and 7.01, including Exhibit 99.1 and Exhibit 99.2 attached hereto, is intended to be 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.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

Exhibit No.	Description
99.1	Press Release, dated February 7, 2023
99.2	Praxis Precision Medicines, Inc. February 2023 Corporate Presentation
104	Cover Page Interactive Data File (embedded within the inline XBRL document)

SIGNATURE

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.

PRAXIS PRECISION MEDICINES, INC.

By: /s/ Marcio Souza

Marcio Souza Chief Executive Officer

Date: February 7, 2023



Praxis Precision Medicines Provides Corporate Update and Reports Fourth Quarter and Full Year 2022 Financial Results

Ulixacaltamide (PRAX-944) Phase 2b Essential1 study topline results for essential tremor expected in 1Q23; Praxis to enter quiet period following market close on Thursday, February 9

Topline results expected for each of three clinical-stage epilepsy programs in 2023 – PRAX-222 first-in-patient EMBRAVE Study safety data mid-2023, PRAX-628 first-in-human Phase 1 data mid-2023, PRAX-562 Phase 2 EMBOLD Study results in 2H23

Cash and investments of \$100.5 million as of December 31, 2022 supports runway into 1Q24

BOSTON, February 7, 2023 — Praxis Precision Medicines, Inc. (NASDAQ: PRAX), a clinical-stage biopharmaceutical company translating genetic insights into the development of therapies for central nervous system (CNS) disorders characterized by neuronal excitation-inhibition imbalance, today provided a corporate update and reported financial results for the fourth quarter and full year 2022.

"This year is set up to be transformative for Praxis and for the patients that we serve, with topline results for the ulixacaltamide Essential1 study imminent and data expected from each of our four clinicalstage programs in 2023," said Marcio Souza, president and chief executive officer of Praxis. "Based on our understanding of epilepsy genetics and unique capabilities to translate these insights into therapies for patients suffering from a broad range of CNS disorders, we have built two proprietary platforms, Cerebrum™ for small molecules and Solidus™ for antisense oligonucleotides, that we expect will drive continuous innovation and value creation this year and beyond."

Recent Business Highlights and Upcoming Milestones:

Cerebrum™ Small Molecule Platform

- Praxis expects topline results from the ongoing ulixacaltamide (PRAX-944) Essential1 study for the treatment of moderate to severe essential tremor (ET) in the first quarter of 2023. Essential1 is a
 randomized, double-blind, placebo-controlled, dose-range-finding Phase 2b trial evaluating the efficacy, safety and tolerability of once-daily daytime treatment of 60 or 100 mg of ulixacaltamide
 compared to placebo after 56 days. The primary endpoint is change from baseline to day 56 in the modified Activities of Daily Living (mADL¹) score. Following topline results, Praxis intends to request
 an end-of-Phase 2 meeting with the FDA and initiate its ulixacaltamide Phase 3 development program for the treatment of ET in mid-2023.
- The Company is also conducting a randomized, double-blind, placebo-controlled Phase 2 trial to evaluate the efficacy, safety and tolerability of once-daily treatment of up to 100 mg of ulixacaltamide as a non-dopaminergic treatment for the motor symptoms of Parkinson's disease. The primary endpoint for the study is change from baseline in the International Parkinson and Movement Disorder Society Unified Parkinson's Disease Rating Scale (UPDRS), Part III (motor examination) score in the OFF state. Topline results are expected in the fourth quarter of 2023.
- In November 2022, Praxis announced plans to initiate the PRAX-562 Phase 2 EMBOLD study for the treatment of pediatric patients with developmental and epileptic encephalopathies (DEEs), following FDA authorization to proceed with the study as Praxis proposed, up to the planned maximum dose of 1.0 mg/kg/day. The EMBOLD study is a randomized, double-blind, placebo-controlled Phase 2 clinical trial to evaluate the safety, tolerability, efficacy (motor seizure frequency) and pharmacokinetics (PK) of PRAX-562 in pediatric participants aged 2 to 18 years with DEEs, followed by an open-label extension. Approximately 20 participants will be enrolled initially in

¹mADL is a composite sum of items 1 to 11 of the TETRAS-ADL subscale and items 6 (bilateral) and 7 of the TETRAS-PS; mADL score is calculated as the sum of all 13 items (item 6 of TETRAS-PS x2) and ranges from 0 to 42

two distinct cohorts (n≈10 for SCN2A-DEE and n≈10 for SCN8A-DEE). Topline results for both cohorts are expected in the second half of 2023.

- The Company is conducting a Phase 1 healthy volunteer study of PRAX-628 to evaluate the tolerability, PK, pharmacodynamics and food effect of PRAX-628 across single and multiple ascending dose cohorts. Topline results from the Phase 1 study are expected in mid-2023, with plans to initiate a Phase 2 study in focal epilepsy in the fourth quarter of 2023.
- In December 2022, Praxis announced that it entered into a strategic collaboration, based upon its PRAX-020 program, with UCB for the discovery of small molecule therapeutics as potential
 treatments for KCNT1 epilepsies. Under the terms of the collaboration, UCB retains an exclusive option to in-license global development and commercialization rights to any resulting KCNT1 small
 molecule development candidate. Praxis received an upfront payment from UCB, and if the option is exercised by UCB, would be eligible to receive an option fee and future success-based
 development and commercialization milestone payments, for a total of up to approximately \$100 million, in addition to tiered royalties on net sales of any resulting products from the collaboration.
- In December 2022, Praxis presented the following posters at the American Epilepsy Society (AES) 2022 Annual Meeting:
 - o PRAX-562 is a Well-tolerated, Novel Persistent Sodium Channel Blocker with Broad Anticonvulsant Activity in Multiple DEE Mouse Models (Abstract Number: 1.281)
 - o A Phase 1 Trial Evaluating the Safety, Tolerability, Pharmacokinetics and Food Effect of PRAX-562 in Healthy Volunteers (Abstract Number: 2.24)
 - o A Phase 1 Trial Evaluating the Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of PRAX-562 in Healthy Volunteers (Abstract Number: 2.478)
 - o Disease Impact and Burden in Patients with SCN2A-Related Developmental and Epileptic Encephalopathy (Abstract Number: 2.092)
 - o A Novel Approach to Assess the Impact of Disease in Patients with SCN8A-Related Developmental and Epileptic Encephalopathy (Abstract Number: 2.096)
 - PRAX-628: A Novel Sodium Channel Blocker with Greater Potency and Activity Dependence Compared to Standard of Care (Abstract Number: 3.311)
 - o PRAX-628 is a Novel, Well-tolerated, Activity Dependent Sodium Channel Blocker with Potent Anticonvulsant Activity (Abstract Number: 3.28)

Solidus™ Antisense Oligonucleotide (ASO) Platform

Praxis is conducting the first dose cohort (Part 1) of the PRAX-222 EMBRAVE study for the treatment of pediatric patients with early-onset SCN2A-DEE in the U.S. Following collection of the safety and
efficacy data from the initial cohort of patients in the EMBRAVE study, the data will be evaluated and submitted to the FDA to support further dose escalation. Part 1 of the EMBRAVE study is a 21week open label cohort, in which participants will receive PRAX-222 for up to 13 weeks, designed to determine the safety and tolerability of intrathecal delivery of PRAX-222. Topline results from Part
1 of the PRAX-222 EMBRAVE study are expected in mid-2023.

The Company remains on track to nominate a development candidate for its most advanced preclinical ASO program, PRAX-080 for the treatment of PCDH19, in the second half of 2023.

Fourth Quarter and Full Year 2022 Financial Results:

As of December 31, 2022, Praxis had \$100.5 million in cash, cash equivalents and marketable securities, compared to \$275.9 million in cash, cash equivalents and marketable securities as of December 31, 2021. This decrease of \$175.4 million primarily reflects cash used in operations of \$185.0 million during the year ended December 31, 2022, partially offset by \$9.6 million in net proceeds from at-the-market offerings of shares of the Company's common stock. The Company's cash, cash equivalents and marketable securities as of December 31, 2022 are expected to fund operations into the first quarter of 2024.

Research and development expenses were \$28.3 million for the fourth quarter of 2022, compared to \$43.5 million for the fourth quarter of 2021. Research and development expenses were \$155.0 million for the year ended December 31, 2021. The increase in research and development expenses for full year 2022 of \$34.7 million was primarily attributable to \$29.9 million in increased expenses related to the Company's Cerebrum[™] and Solidus[™] platforms.

General and administrative expenses were \$13.1 million for the fourth quarter of 2022, compared to \$15.1 million for the fourth quarter of 2021. General and administrative expenses were \$59.9 million for the year ended December 31, 2022, compared to \$47.1 million for the year ended December 31, 2021. The increase in general and administrative expenses for full year 2022 of \$12.8 million was primarily attributable to an increase of \$11.8 million in personnel-related expenses due to changes in headcount, including an increase of \$5.3 million in stock-based compensation expense.

Praxis reported a net loss of \$41.2 million for the fourth quarter of 2022, including \$6.4 million of stock-based compensation expense, compared to \$58.6 million for the fourth quarter of 2021, including \$6.1 million of stock-based compensation expense. Praxis reported a net loss of \$214.0 million for the year ended December 31, 2022, including \$28.6 million of stock-based compensation expense, compared to a net loss of \$167.1 million for the year ended December 31, 2021, including \$22.7 million of stock-based compensation expense.

As of December 31, 2022, Praxis had 49.4 million shares of common stock outstanding.

About Praxis

Praxis Precision Medicines is a clinical-stage biopharmaceutical company translating insights from genetic epilepsies into the development of therapies for CNS disorders characterized by neuronal excitationinhibition imbalance. Praxis is applying genetic insights to the discovery and development of therapies for rare and more prevalent neurological disorders through our proprietary small molecule platform, Cerebrum[™], and antisense oligonucleotide (ASO) platform, Solidus[™], using our understanding of shared biological targets and circuits in the brain. Praxis has established a diversified, multimodal CNS portfolio including multiple programs across movement disorders and epilepsy, with four clinical-stage product candidates. For more information, please visit www.praxismedicines.com and follow us on LinkedIn and Twitter.

Forward-Looking Statements

This press release contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995 and other federal securities laws, including express or implied statements regarding Praxis' future expectations, plans and prospects, including, without limitation, statements regarding expectations, plans and timing for our clinical data, the anticipated timing of our clinical trials and regulatory interactions, the development of our product candidates, including the design of our clinical trials and the treatment potential of our product candidates, and the sufficiency of our cash, cash equivalents and marketable securities, as well as other statements containing the words "anticipate," "believe," "continue," "could," "endeavor," "estimate," "expect," "anticipate," "intend," "may," "might," "plan," "predict," "project," "project," "seek," "should," "target," "will" or "would" and similar expressions that constitute forward-looking statements under the Private Securities Litigation Reform Act of 1995.

The express or implied forward-looking statements included in this press release are only predictions and are subject to a number of risks, uncertainties and assumptions, including, without limitation: uncertainties inherent in clinical trials; the expected timing of submissions for regulatory approval or review by governmental authorities; regulatory approvals to conduct trials; Praxis' ability to continue as a going concern; and other risks concerning Praxis' programs and operations as described in its Annual Report on Form 10-K for the year ended December 31, 2022 to be filed and other filings made with the Securities and Exchange Commission. Although Praxis' forward-looking statements reflect the good faith judgment of its management, these statements are based only on information and factors currently known by Praxis. As a result, you are cautioned not to rely on these forward-looking statements. Any forward-looking statement made in this press release speaks only as of the date on which it is made. Praxis undertakes no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future developments or otherwise. Investor Contact Alex Kane Praxis Precision Medicines investors@praxismedicines.com 617-300-8481

Media Contact lan Stone Canale Communications lan.stone@canalecomm.com 619-849-5388

PRAXIS PRECISION MEDICINES, INC. CONDENSED CONSOLIDATED BALANCE SHEETS (Amounts in thousands) (Unaudited)

	Dec	December 31,		
	2022		2021	
Assets				
Cash and cash equivalents	\$ 61,61	5\$	138,704	
Marketable securities	38,87	4	137,207	
Prepaid expenses and other current assets	10,35	1	11,498	
Property and equipment, net	97	1	1,213	
Operating lease right-of-use assets	2,90	1	3,653	
Other non-current assets	41	ő	472	
Total assets	\$ 115,12	8\$	292,747	
Liabilities and stockholders' equity				
Accounts payable	\$ 14,67	2\$	10,780	
Accrued expenses	15,85	5	26,844	
Operating lease liabilities	3,50	J	4,311	
Deferred revenue	5,00	5	-	
Common stock		5	5	
Additional paid-in capital	606,91	8	567,598	
Accumulated other comprehensive loss	(17	3)	(176)	
Accumulated deficit	(530,64	1)	(316,615)	
Total liabilities and stockholders' equity	\$ 115,12	з\$	292,747	

PRAXIS PRECISION MEDICINES, INC. CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS (Amounts in thousands, except share and per share amounts) (Unaudited)

	т	hree Months En	ded De	cember 31,		Year Decem		
		2022		2021		2022		2021
Operating expenses:						<u>.</u>		
Research and development	\$	28,329	\$	43,511	\$	155,040	\$	120,257
General and administrative		13,124		15,146		59,946		47,075
Total operating expenses		41,453		58,657		214,986		167,332
Loss from operations		(41,453)		(58,657)		(214,986)		(167,332)
Other income:								
Other income, net		280		70		957		271
Total other income		280		70		957		271
Loss before benefit from income taxes		(41,173)		(58,587)		(214,029)		(167,061)
Benefit from income taxes		-		5		-		-
Net loss	\$	(41,173)	\$	(58,582)	\$	(214,029)	\$	(167,061)
Net loss per share attributable to common stockholders, basic and diluted	\$	(0.87)	\$	(1.30)	\$	(4.64)	\$	(3.94)
Weighted average common shares outstanding, basic and diluted		47,594,823		44,964,580		46,096,737	-	42,454,055
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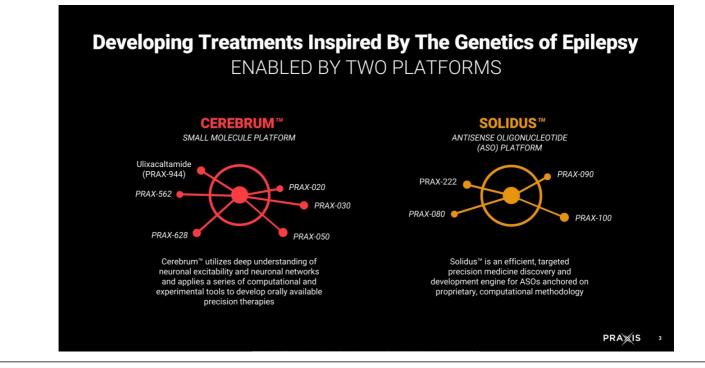


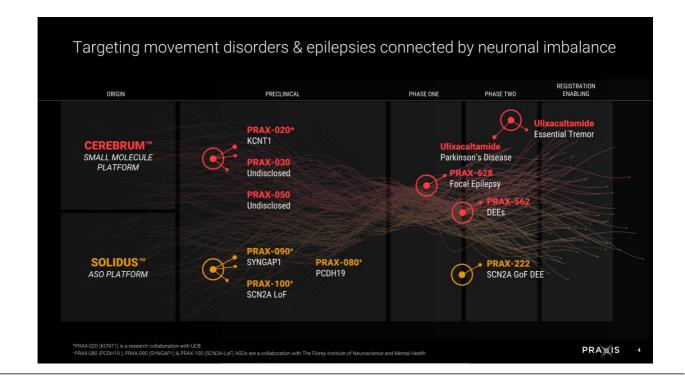
Forward-looking statements

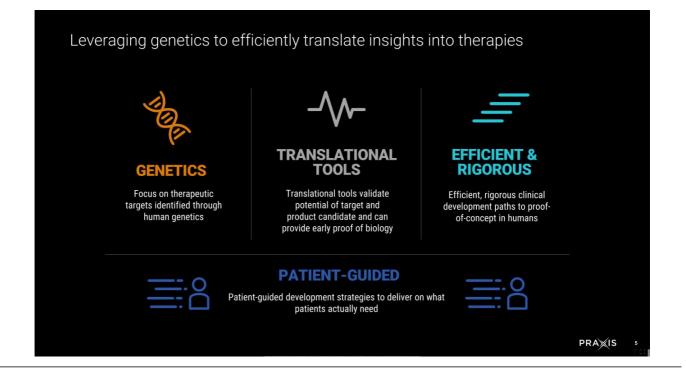
This presentation may contain "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 relating to our business, operations, and financial conditions, including but not limited to express or implied statements regarding the current beliefs, expectations and assumptions regarding the future of our business, future plans and strategies, our development plans, our preclinical and clinical results and other future conditions. Any forward-looking statements in this presentation are based on management's current expectations and beliefs and are subject to a number of risks, uncertainties and important factors that may cause actual events or results to differ materially from those expressed or implied by any forward-looking statements contained in this presentation, including, without limitation, risks relating to: (i) the success and timing of our product development activities and initiating clinical trials, (iii) the success and timing of our product development activities and initiating clinical trials, (iii) the success and timing of our product development activities and initiating clinical trials, (iii) the success and timing of our product development activities and initiating clinical trials, (iii) the success and timing of our product candidates, (vi) our ability to enter into collaborations for the development of new product candidates, (vii) our ability to establish manufacturing capabilities, and our and our collaboration partners' abilities to manufacture our product candidates, (vii) our ability to establish manufacturing capabilities, and our collaboration partners' abilities to manufacture our product candidates and scale production, and (viii) our ability to meet any specific milestones set forth herein. New risks and uncertainties may emerge from time to time, and it is not possible to predict all risks and uncertainties. Except as required by applicable law, we do not plan to publicly update or revise any forward-looking statements contained herein, wh

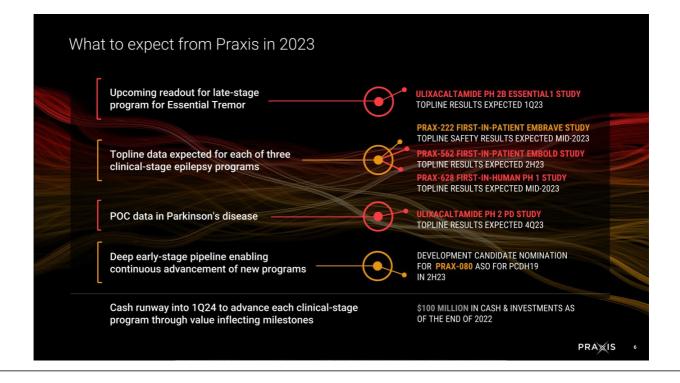
For further information regarding the risks, uncertainties and other factors that may cause differences between our expectations and actual results, you should review the "Risk Factors" section of our Annual Report on Form 10-K for the year ended December 31, 2022 to be filed and other filings with the Securities and Exchange Commission.

Certain information contained in this presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and our own internal estimates and research. While we believe these third-party sources to be reliable as of the date of this presentation, we have not independently verified, and make no representation as to the adequacy, fairness, accuracy or completeness of, any information obtained from third-party sources. In addition, all of the market data included in this presentation involves a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions. Finally, while we believe our own internal research is reliable, such research has not been verified by any independent source.











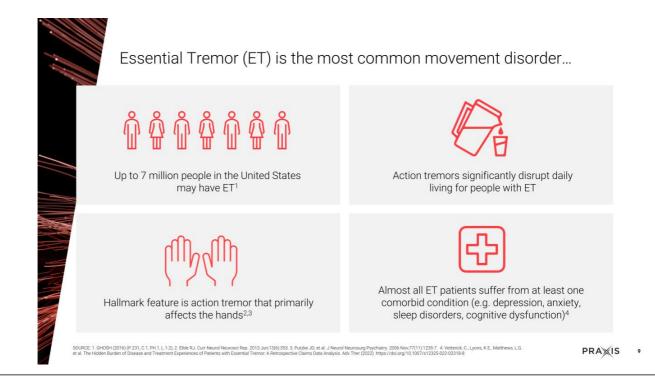


KEY UPCOMING MILESTONES

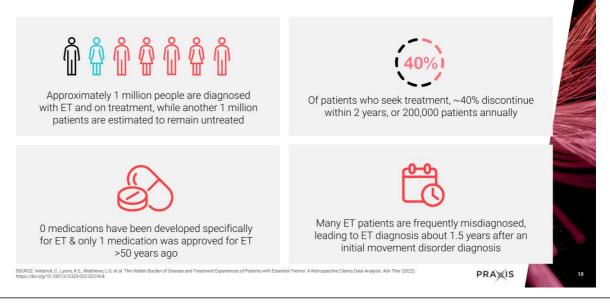
1Q 2023 Ph 2b ET Essential1 Study Topline Results

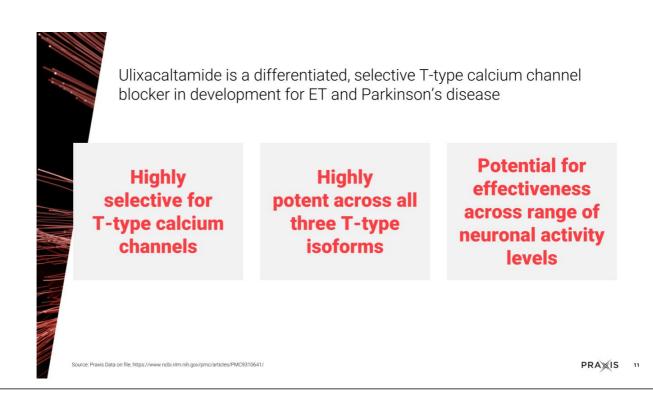
> 4Q 2023 Ph 2 PD Study Topline Results

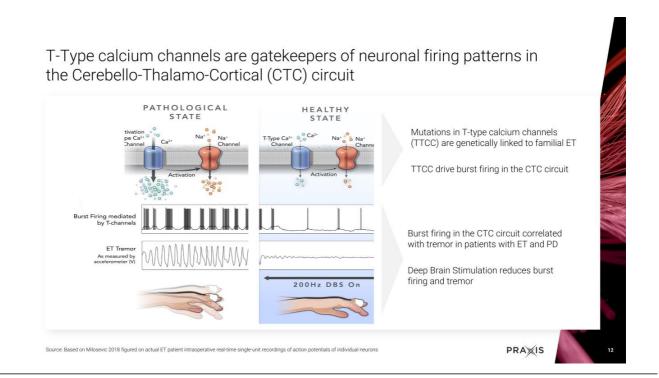


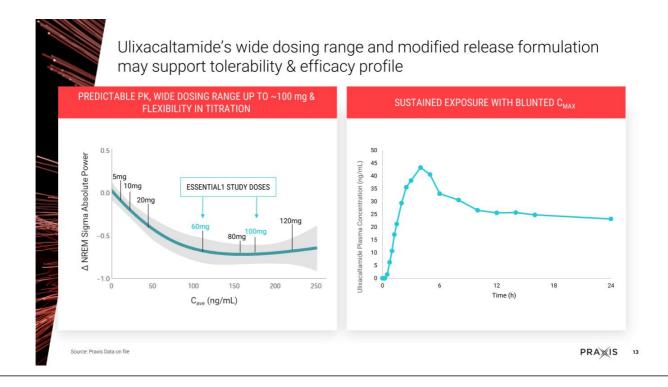


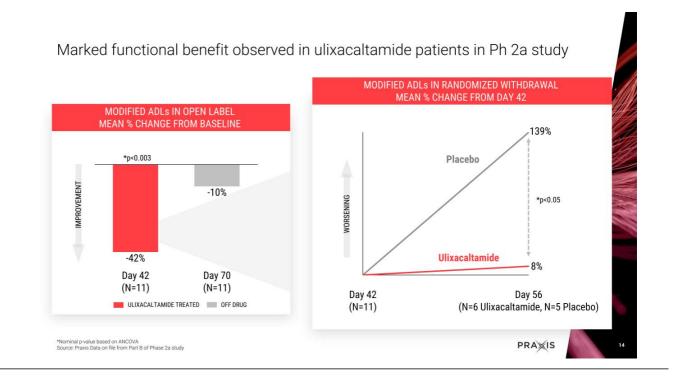
...but ET often remains undiagnosed, misdiagnosed, undertreated and untreated

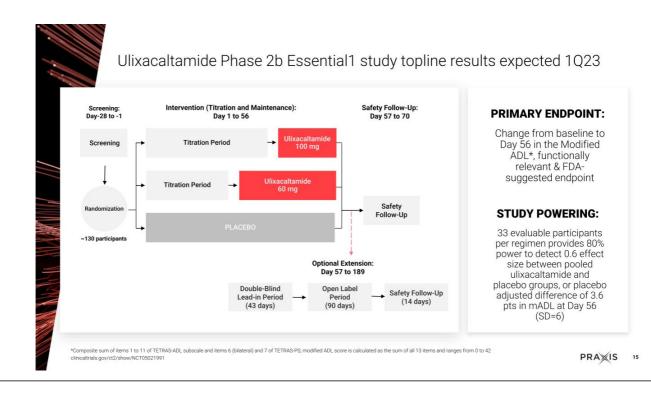




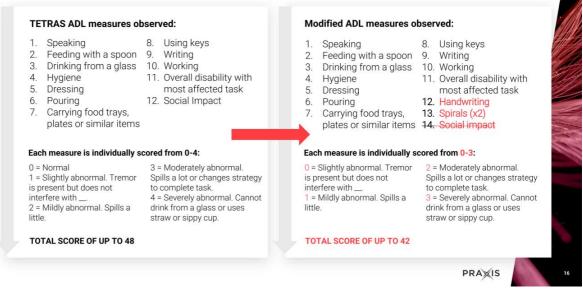


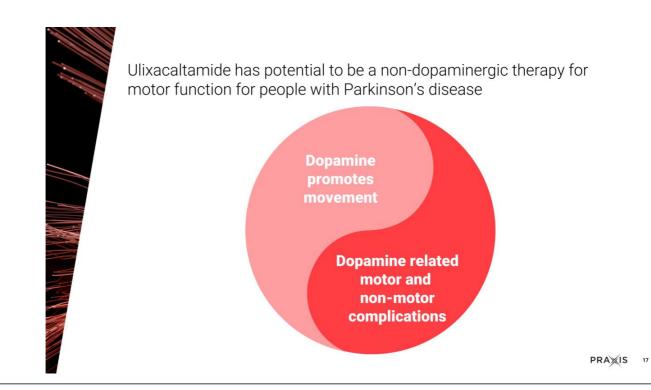


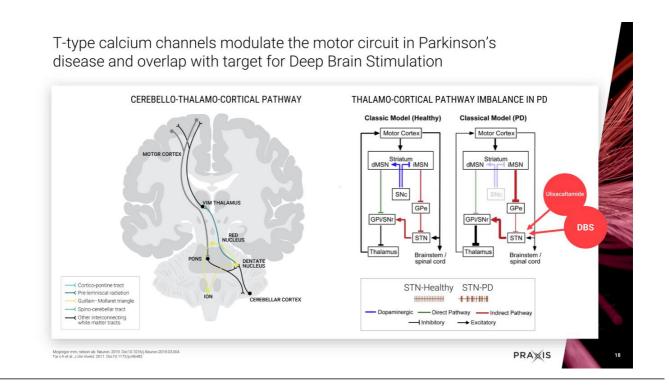


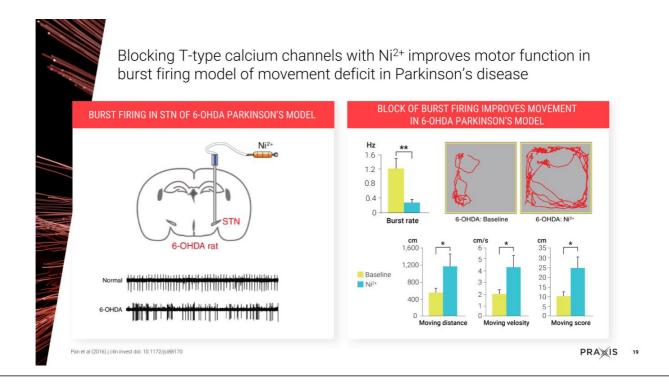


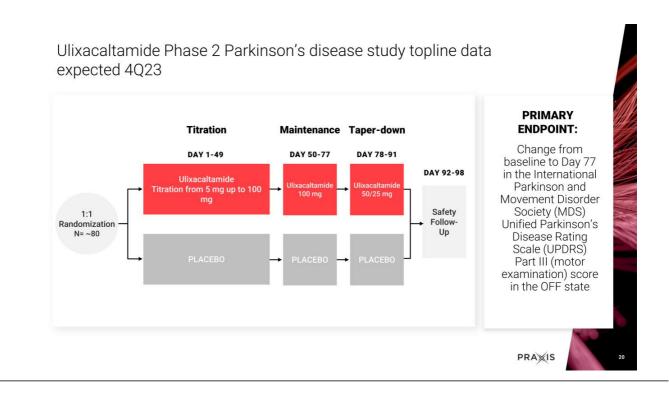
Modified ADLs: A modified measure of TETRAS activities of daily living (ADLs) that is functionally relevant and FDA recommended



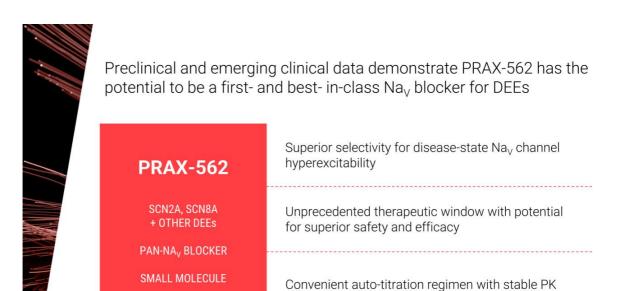




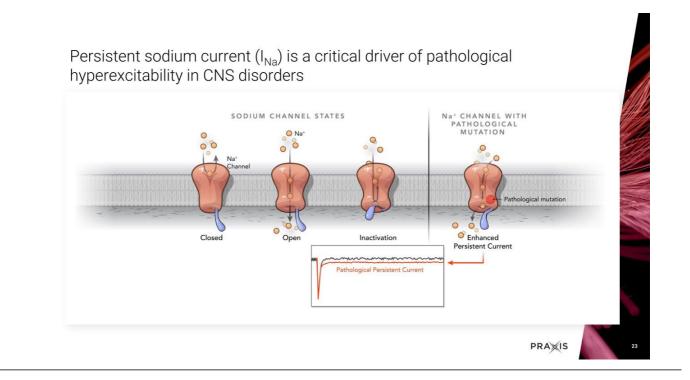








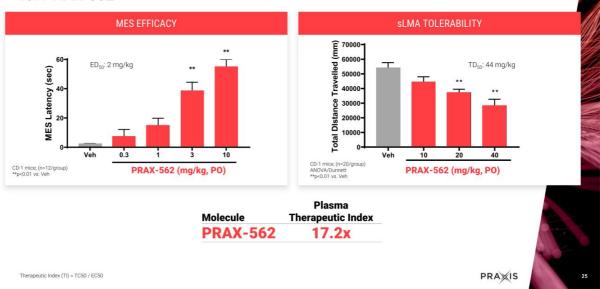
PRAXIS 22

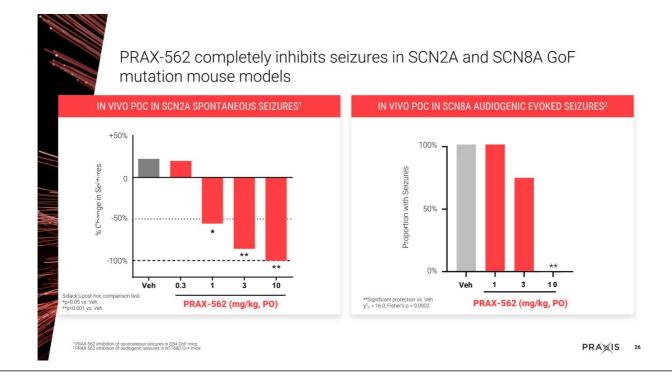


Broader in vitro panel indicates PRAX-562 has best-in-class preferences

	PRAX-562		Persistent I _{Na} IC50 (nM)	Ratio of persistent to peak inhibition	
	00	PRAX-562	141	60 🗰	MOST SELECTIV
1		Carbamazepine	77,520	30	
	MOST POTENT + Carbamazepine + Cenobamate	Cenobamate	73,263	23	
		Lidocaine	68,230	19	
	20-	Lamotrigine	78,530	16	
	0-	Vixotrigene (BIIB074)	3,676	14	
14	0.01 0.1 1 10 100 1000 10000	Lacosamide	833,100	n/a*	
	Concentration (µM)	Valproic Acid	<10% @ 1 mM	No inhibition	

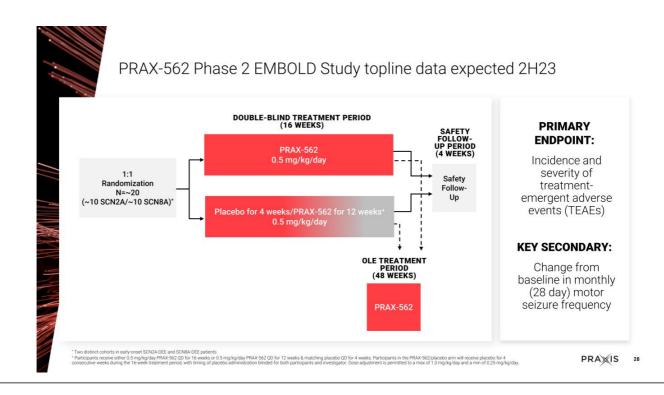


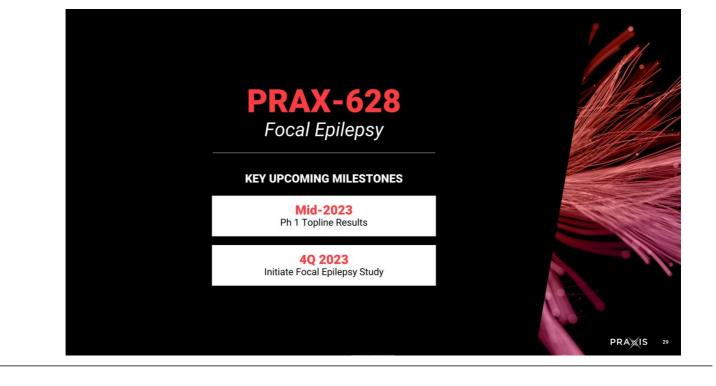




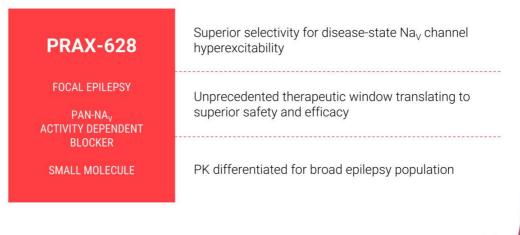
PRAX-562 Phase 1 summary



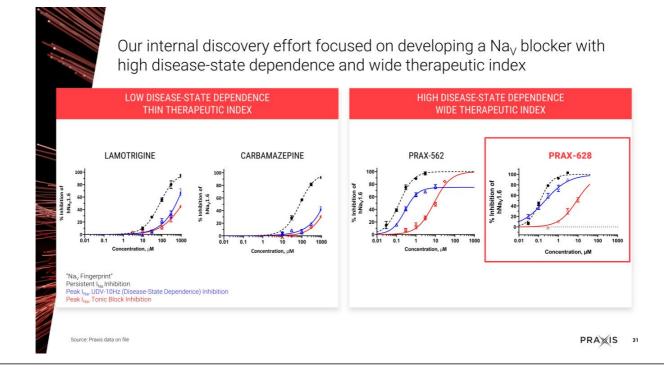


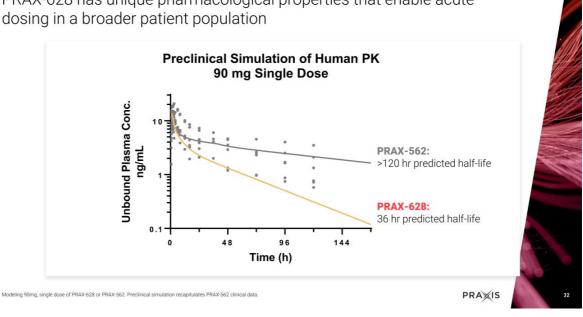


Preclinical data demonstrates PRAX-628 may be a best-in-class $\ensuremath{\mathsf{Na}_{\mathsf{V}}}$ blocker for focal epilepsy

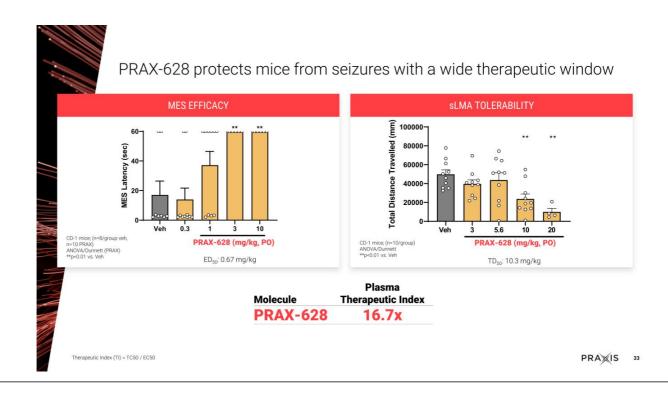


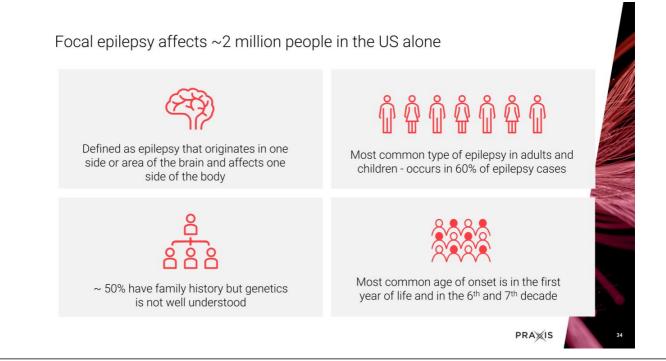
PRAXIS

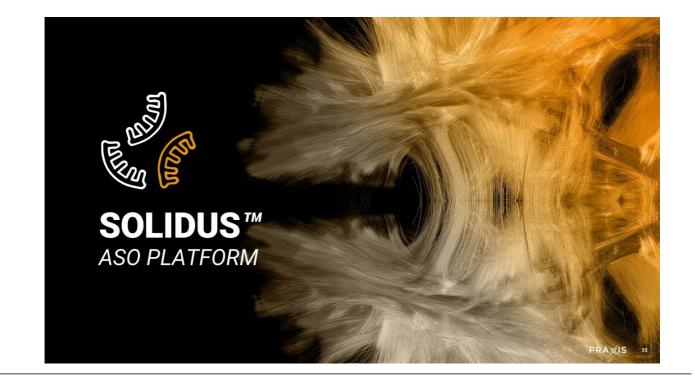




PRAX-628 has unique pharmacological properties that enable acute dosing in a broader patient population





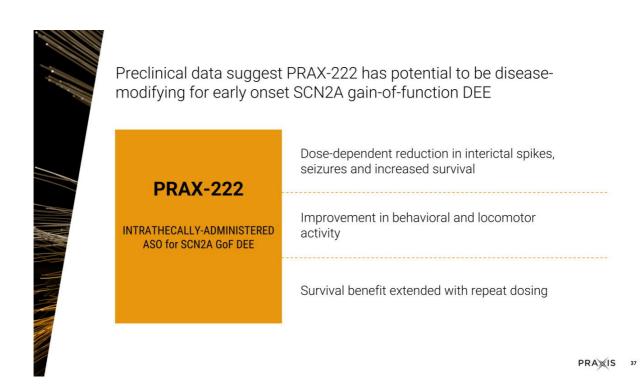


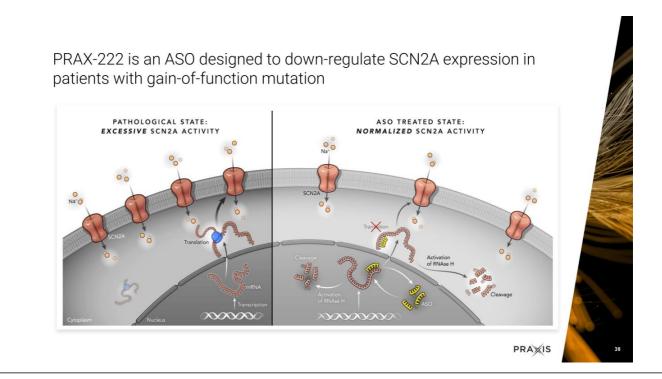


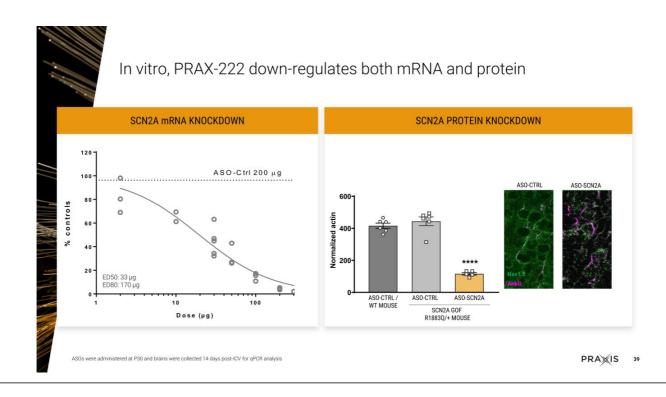
KEY UPCOMING MILESTONES

Mid-2023 EMBRAVE Study First Dose Cohort (Part 1) Topline Results









PRAX-222 increases survival in SCN2A GoF mice

