### 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 28, 2022

### 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.)

Name of each exchange

on which registered

The Nasdaq Global Select Market

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

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.

Trade <u>Symbol(s)</u>

PRAX

#### Item 2.02. Results of Operations and Financial Condition.

On February 28, 2022, Praxis Precision Medicines, Inc. (the "Company") announced its financial results for the quarter and full year ended December 31, 2021. 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 28, 2022, 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 28, 2022
99.2	Praxis Precision Medicines, Inc. February 2022 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 28, 2022



#### Praxis Precision Medicines Provides Corporate Update and Reports Fourth Quarter and Full Year 2021 Financial Results

#### PRAX-114 Phase 2/3 monotherapy MDD Aria Study topline results expected in June 2022

#### PRAX-944 Phase 2a ET topline results expected in May 2022; to include open-label and placebo-controlled withdrawal data

#### PRAX-222 seamless study in SCN2A-DEE expected to initiate in 2Q22

#### Cash and investments of \$275.9 million as of December 31, 2021 supports runway into 2Q23

BOSTON, Mass., February 28, 2022 — 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, including a video highlighting recent business and pipeline progress, and reported financial results for the fourth quarter and full year 2021.

"With screening now closed in all sites in the PRAX-114 Aria Study, we are emboldened by the progress in our psychiatry franchise, and broadly across our pipeline," said Marcio Souza, president and chief executive officer of Praxis. "There is a clear unmet need for a fast-acting, durable depression treatment with a differentiated tolerability profile relative to both existing treatment options and other drugs in development, which allows patients to remain on drug throughout an episode of depression. We look forward to reporting topline results from the Aria Study in June, followed shortly thereafter by results from the Acapella Study, and intend to initiate a Phase 3 trial in MDD later this year. With additional topline data expected from PRAX-114 studies for PTSD and ET, as well as from PRAX-944 for ET, 2022 is shaping up to be a transformative year for Praxis and we are eager to share our continued progress and growth."

#### **Recent Business Highlights and Upcoming Milestones:**

#### Psychiatry

- Praxis expects topline results from the PRAX-114 Phase 2/3, placebo-controlled Aria Study for monotherapy treatment of Major Depressive Disorder (MDD) in the second quarter of 2022, in June. The Aria Study is intended to serve as one of two trials required by the U.S. Food and Drug Administration (FDA) to demonstrate clinical efficacy to support registration of PRAX-114 for monotherapy treatment of MDD.
- The Company expects topline results from the PRAX-114 Phase 2, placebo-controlled, dose-ranging Acapella Study for treatment of MDD in mid-2022. The Acapella Study is intended to provide additional understanding of the dose range and to evaluate the safety and efficacy of PRAX-114 at doses of 10, 20, 40 and 60 mg.
- Praxis initiated a PRAX-114 Phase 2, placebo-controlled study for treatment of post-traumatic stress disorder (PTSD) in the fourth quarter of 2021 and has started dosing participants. Topline results are expected in the second half of 2022. The trial is designed to evaluate the safety, tolerability and efficacy of a nightly dose of 40 mg of PRAX-114 for 4 weeks in approximately 80 participants with PTSD, using the CAPS-5 total score as the primary endpoint.

#### Movement Disorders

In December 2021, Praxis reported preliminary open-label data from the second of two cohorts of its PRAX-944 Phase 2a trial for daytime treatment of essential tremor (ET), evaluating
safety and efficacy in participants titrated up to 120 mg per day. Enrollment of study participants was subsequently completed. Topline open-label and placebo-controlled, randomized
withdrawal results are expected in the second quarter of 2022, in May.

- The Company expects topline results from the PRAX-944 Phase 2b Essential1 Study for daytime treatment of ET in the second half of 2022. Essential1 is a placebo-controlled, doseranging clinical trial designed to evaluate the safety, tolerability and efficacy of PRAX-944 at 20, 60 or 100 mg per day.
- Praxis expects to initiate a PRAX-114 Phase 2, placebo-controlled, crossover study for daytime treatment of ET to evaluate safety, pharmacokinetics (PK) and efficacy of 10 and 20 mg of PRAX-114 in the first quarter of 2022. Topline results are expected in the second half of 2022.
- Praxis intends to initiate a Phase 2, placebo-controlled trial to evaluate the safety, PK and efficacy of PRAX-944 as a non-dopaminergic treatment for the motor symptoms of Parkinson's disease in the second quarter of 2022.

#### Epilepsy

- Praxis plans to initiate a PRAX-562 Phase 2, placebo-controlled trial for treatment of developmental epileptic encephalopathies (DEEs) in the second quarter of 2022.
- Praxis intends to initiate a seamless study of PRAX-222, its lead antisense oligonucleotide (ASO) candidate, for the treatment of SCN2A-DEE in the second quarter of 2022.
- In January 2022, the European Medicines Agency (EMA) Committee for Orphan Medicinal Products (COMP) granted Orphan Drug Designation (ODD) to PRAX-222 for the treatment of SCN2A-DEE. Previously, in January 2021, the FDA granted both ODD and Rare Pediatric Disease (RPD) designation to PRAX-222 for the treatment of SCN2A-DEE.
- In December 2021, the EMA COMP granted ODD to PRAX-562 for the treatment of SCN8A-DEE and SCN2A-DEE. Previously, in January 2021, the FDA granted both ODD and RPD designation to PRAX-562 for the treatment of SCN8A-DEE.
- In December 2021, Praxis presented data from two of its rare epilepsy programs, PRAX-562 and its KCNT1 inhibitor, at the American Epilepsy Society 2021 Annual Meeting. Presentations on PRAX-562 focused on its potent anticonvulsant activity in SCN2A-DEE and SCN8A-DEE mouse models and its mechanistic distinction relative to standard-of-care sodium channel inhibitors, with greater potency and selectivity for persistent sodium current. The presentation on KCNT1 focused on the compound's in vitro and in vivo profiling, including its efficacy in a KCNT1 gain-of-function mouse model.
- In December 2021, Praxis entered into a research collaboration with Cerebral Therapeutics, Inc., with an exclusive option to in-license delivery technology for intracerebroventricular administration of its ASOs.
- Praxis intends to develop PRAX-628, a small molecule with unique NaV channel binding kinetics that favor inhibition of pathological neuronal activity underlying aberrant brain function, such as that seen in the initial indication of focal onset seizures. The Company anticipates use in other common forms of epilepsy and CNS excitability disorders more generally. PRAX-628 is currently in IND-enabling toxicology studies.

#### Other Exploratory CNS Indications

 Praxis plans to initiate a PRAX-562 Phase 2, placebo-controlled trial for treatment of rare adult cephalgias in the first quarter of 2022, including a cohort of participants with Short-lasting Unilateral Neuralgiform headache attacks with Conjunctival injection and Tearing (SUNCT) and Short-lasting Unilateral Neuralgiform headache with Autonomic symptoms (SUNA), and a cohort of participants with Trigeminal Neuralgia (TN).

#### General Corporate Updates

 In December 2021, Praxis announced the appointment of Megan Sniecinski as chief business officer, the promotions of Alyssa Wyant to chief regulatory and quality officer and Karl Hansen, Ph.D., to chief technical operations officer, and the decision by chief scientific officer and co-founder, Steven Petrou, Ph.D., to fully dedicate his time to Praxis upon stepping down from his role as Director of the Florey Institute of Neuroscience and Mental Health and Head of the Florey Department at The University of Melbourne.

#### Fourth Quarter and Full Year 2021 Financial Results:

As of December 31, 2021, Praxis had \$275.9 million in cash, cash equivalents and marketable securities, compared to \$296.6 million in cash and cash equivalents as of December 31, 2020. This decrease of \$20.7 million primarily reflects cash used in operations of \$124.6 million during the year ended December 31, 2021, partially offset by \$105.7 million in net proceeds from the follow-on public offering of shares of the Company's common stock in May 2021 and at-the-market offerings during the fourth quarter of 2021. The company's cash, cash equivalents and marketable securities as of December 31, 2021 are expected to fund operations into the second quarter of 2023.

Research and development expenses were \$43.5 million for the fourth quarter of 2021, compared to \$16.3 million for the fourth quarter of 2020. Research and development expenses were \$120.3 million for the year ended December 31, 2021, compared to \$45.0 million for the year ended December 31, 2020. The increase in research and development expenses for full year 2021 of \$75.3 million was primarily attributable to \$43.6 million in increased expenses related to the Company's franchises, \$17.6 million in increased personnel-related costs due to increased headcount and \$8.8 million in increased expenses for other exploratory CNS indications.

General and administrative expenses were \$15.1 million for the fourth quarter of 2021, compared to \$9.4 million for the fourth quarter of 2020. General and administrative expenses were \$47.1 million for the year ended December 31, 2021, compared to \$17.0 million for the year ended December 31, 2020. The increase in general and administrative expenses for full year 2021 of \$30.1 million was primarily attributable to \$14.6 million in increased personnel-related costs due to increased headcount, \$9.9 million in increased professional fees and a \$5.6 million increase in other general and administrative expenses.

Praxis reported a net loss of \$58.6 million for the fourth quarter of 2021, including \$6.1 million of stock-based compensation expense, compared to \$25.7 million for the fourth quarter of 2020, including \$3.8 million of stock-based compensation expense. Praxis reported a net loss of \$167.1 million for the year ended December 31, 2021, including \$2.7 million of stock-based compensation expense, compared to a net loss of \$61.8 million for the year ended December 31, 2020, including \$5.2 million of stock-based compensation expense.

As of December 31, 2021, Praxis had 45.3 million shares of common stock outstanding.

#### **Conference Call and Webcast**

Praxis will host a Q&A session focused on today's corporate update and financial results for the fourth quarter and full year 2021 via a conference call and webcast today, February 28, 2022, at 8:30 a.m. ET. To access the conference call, please dial (833) 398-1037 (local) or (914) 987-7735 (international) at least 10 minutes prior to the start time and refer to conference ID 8993704. A live audio webcast of the event may also be accessed through the Events & Presentations page of the Investors + Media section of the company's website at https://investors.praxismedicines.com/events-and-presentations. A replay of the webcast will be available on Praxis' website approximately two hours after the completion of the event and will be archived for 30 days following the event.

#### About Praxis

Praxis Precision Medicines is a clinical-stage biopharmaceutical company translating genetic insights into the development of therapies for CNS disorders characterized by neuronal excitationinhibition imbalance. Praxis is applying insights from genetic epilepsies to both rare and more prevalent neurological and psychiatric disorders, using our understanding of shared biological targets and circuits in the brain. Praxis has established a broad portfolio with multiple programs, including product candidates across psychiatric disorders, movement disorders, epilepsy and other exploratory CNS indications, with three 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 filings, 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, and as well as other statements containing the

words "anticipate," "believe," "continue," "could," "endeavor," "estimate," "expect," "anticipate," "intend," "may," "might," "plan," "potential," "predict," "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; risks, uncertainties and assumptions regarding the impact of the continuing COVID-19 pandemic on Praxis' business, operations, strategy, goals and anticipated timelines, Praxis' ongoing and planned preclinical activities, Praxis' ability to initiate, enroll, conduct or complete ongoing and planned clinical trials and Praxis' timelines for regulatory submissions; and other risks concerning Praxis' programs and operations are described in additional detail in its Annual Report on Form 10-K for the year ended December 31, 2021 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.

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

	 Decem	ber 3	31,
	2021		2020
Assets			
Cash and cash equivalents	\$ 138,704	\$	296,608
Marketable securities	137,207		—
Prepaid expenses and other current assets	11,498		5,718
Property and equipment, net	1,213		82
Operating lease right-of-use assets	3,653		754
Other non-current assets	472		15
Total assets	\$ 292,747	\$	303,177
Liabilities and stockholders' equity			
Accounts payable	\$ 10,780	\$	4,088
Accrued expenses	26,844		10,869
Operating lease liabilities	4,311		763
Common stock	5		4
Additional paid-in capital	567,598		437,007
Accumulated other comprehensive loss	(176)		_
Accumulated deficit	(316,615)		(149,554)
Total liabilities and stockholders' equity	\$ 292,747	\$	303,177

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

	Th	ree Months En	ded [	December 31,	 Year E Decem	Ende Iber 3	d 31,
		2021		2020	2021		2020
Operating expenses:					 		
Research and development	\$	43,511	\$	16,272	\$ 120,257	\$	44,976
General and administrative		15,146		9,440	 47,075		16,992
Total operating expenses		58,657		25,712	167,332		61,968
Loss from operations		(58,657)		(25,712)	 (167,332)		(61,968)
Other income:							
Other income, net		70		6	271		140
Total other income		70		6	271		140
Loss before benefit from income taxes		(58,587)		(25,706)	 (167,061)		(61,828)
Benefit from income taxes		5		—	_		8
Net loss	\$	(58,582)	\$	(25,706)	\$ (167,061)	\$	(61,820)
Accretion and cumulative dividends on redeemable convertible preferred stock		_		(950)	 		(8,996)
Gain on repurchase of redeemable convertible preferred stock		_		_	_		493
Net loss attributable to common stockholders	\$	(58,582)	\$	(26,656)	\$ (167,061)	\$	(70,323)
Net loss per share attributable to common stockholders, basic and diluted	\$	(1.30)	\$	(0.87)	\$ (3.94)	\$	(7.86)
Weighted average common shares outstanding, basic and diluted		44,964,580		30,703,886	42,454,055		8,950,152



#### 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 (iv) our ability to obtain and maintain regulatory approal of any of our product candidates, (vii) our ability to obtain and maintain regulatory approal of any of our product candidates, (vii) our ability to enter into collaborations for the development of new product candidates, (vii) our ability to meat any specific milestones set forth herein, and (x) uncertainties and assumptions regarding the impact of the COVID-19 pandemic on our business, operations, clinical trials, supply chain, strategy, goals and anticipated timelines. New risks and uncertainties. Except as required by applicaable law, we do not plan to publicly update or revise any forward-looking statements are reasonable, we can give no assurance that such expectations will prove to be correct. Accordingly, readers are cautioned not to top or evard-looking statements.

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 filed for the year ended December 31, 2021 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.

#### PRAXIS

PAGE















Major depressive disorder is a growing and debilitating disorder with substantial unmet need despite numerous treatment options



# Preference for extrasynaptic GABA<sub>A</sub> receptors has the potential of marked antidepressant effect with an improved tolerability profile



# Extrasynaptic GABA<sub>A</sub> preference allows PRAX-114 the potential to achieve high-levels of GABAergic activation with improved tolerability





# PRAX-114 Phase 2a: rapid and marked improvement in depression scores

	HAM-D Monotherapy	HAM-D Adjunctive		HAM-A Anxiety Rating Scale	HAM-D Insomnia Item Tota (max score of 6)
Visit	Mean (SD) N=14	Mean (SD) N=38	Visit	Mean (SD) N=52	Mean (SD) N=52
<b>Day 1</b> (BL)	25.2 (1.82)	24.7 (2.90)	<b>Day 1</b> (BL)	22.4 (4.16)	4.2 (1.3)
Day 8 (CFB)	-17.6 (4.77)	-13.4 (7.94)	<b>Day 8</b> (CFB)	-12.4 (7.55)	-2.8 (1.9)
Day 15 (CFB)	-16.6 (5.23)	-12.2 (7.02)	<b>Day 15</b> (CFB)	-11.6 (6.67)	-3.1 (1.7)

### Low rates of somnolence with PRAX-114 at targeted exposure level



## PRAX-114 clinical program leverages best practices in conduct of MDD trials

RIGOROUS PATIENT SELECTION	<ul> <li>Enrollment of patients with at least one prior episode of MDD (associated with a lower placebo response rate)<sup>1</sup></li> <li>Two-level subject &amp; data quality procedure using the SAFER independent clinical interview to confirm eligibility<sup>2</sup></li> </ul>
HIGH QUALITY SITE SELECTION	<ul> <li>Enrollment of sites with a known track-record of high-quality data generation</li> <li>Experienced raters, adequate resources, low frequency of operational issues and proven performance in running studies successfully during the pandemic</li> </ul>
OPTIMIZED TRIAL DESIGN & EXECUTION	<ul> <li>Integration of a placebo control reminder script for patients at every visit</li> <li>Inclusion of the AiCure smartphone-based adherence monitoring system with structured site intervention<sup>3</sup></li> </ul>
1: Sonawalla SB, Rosenbaum JF. Pl 2: Freeman MP. Poolpy J. Pym MJ. 2017;37(2): 177-818. doi:10.1097/J	acebo response in depression. Dialogues Clin Neurosci. Mar 2002;4(1):105-13. et al. Guarding the Gate: Remote Structured Assessments to Enhance Errollment Precision In Depression Trials. J Clin Psychopharmacol. Apr PAG

# PRAX-114 monotherapy MDD Phase 2/3 Aria Study topline data expected 2Q 2022\*

STUDY	OUTPATIENT NIGHTLY DOSING	FOLLOW-UP	First of two registration
Ph 2/3	•	•	trials for monotherapy MI
1:1 RANDOMIZED PLACEBO CONTROLLED IN MONOTHERAPY	<b>PRA</b> -114 40 mg*		
MDD	PLACEBO		KEY INCLUSION CRITERIA
·· 200 participants	PRIMARY ENDPOINT HAM-D17 at Day 15		Ages 18-65 HAM-D17 ≥ 23 At least one prior episode of MD
	KEY S	SECONDARY	KEY EXCLUSION CRITERIA
	HAM-	D17 at Day 29	Treatment-resistant depressior Current antidepressant treatment

ACAPELLA WEE	K 1 2 3 4 5	6 PHASE 2
STUDY	OUTPATIENT NIGHTLY DOSING FOLLOW-UP	Dose-ranging study to
	• •	evaluate safety and efficacy
	PRA%-114 10 mg <sup>+</sup>	of PRAX-114 at doses of 10, 20
Ph 2	PRA_114 20 mg	40 and 60 mg
RANDOMIZED PLACEBO CONTROLLED DOSE-RANGING	PRA -114 40 mg	KEY INCLUSION CRITERIA
~125 participants	PRAX-114 60 mg	Ages 18-65
, , ,	PLACEBO	HAM-D17 ≥ 20 At least one prior episode of MDD
	HAM-D17 at Day 15	KEY EXCLUSION CRITERIA
	KEY SECONDARY ENDPOINT HAM-D17 at Day 29	Treatment-resistant depression

## PRAX-114 has broad potential in psychiatry disorders such as PTSD

POST- TRAUMATIC STRESS DISORDER (PTSD)	ESTI Flashbacks Negative cognition	ADULT PTSD MATED US PREVAL US PREVAL Insomnia & Nightmares Mood symptoms	ENCE Anxiety Intrusive thoughts	(1)	<b>Post-traumatic Stress Disorder</b> is a debilitating psychiatric disorder that leads to social, occupational and interpersonal dysfunction <b>Profound unmet need</b> , meaningful link to PRAX-114 MOA, and complementarity to MDD program
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PRAX-944 is designed to enable once daily dosing and a well-tolerated safety profile





















PRAX-944 has potential to be a non-dopaminergic therapy for motor function for Parkinson's disease patients



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	Why Parkinson's	disease matt	ters?	
Affects - the US, v treated p	~1 million people in vith 85% of patients harmacologically	ŶŶ	Incidence is age related. Average age of onset is early 60s. High risk in men.	
	Progressive motor and r symptoms	e disability non-motor		
PRAXIS 1. HTTPS://WWW.PARKINSON.ORG/UNE AND MARKET ANALYSIS TO 2029, APRIL	IERSTANDING-PARKINSONS/STATISTICS 2. GLOBAL DATA REPO 2021 3.CLAIMS ANALYSIS; SECONDARY RESEARCH	ORT: PARKINSON'S DISEASE - GLOBAL	DRUG FORECAST	AGE 39





EPILEPSY	
PRAX-562	2Q 2022
PRAX-222 ASO	PRAX-562 Ph 1 ASSR Biomarker Topline
PRAX-020	2Q 2022 Initiate PRAX-562 Ph 2 DEE Trial
PRAX-628	
SCN2A-LOF ASO	2Q 2022 Initiate PRAX-222 Seamless SCN2A-DEE Trial
SYNGAP1 ASO	
PCDH19 ASO	
PRAIS	







Molecule	Brain Therapeutic Index	
PRAX-562	16.4x	PRAX-562 had an increased ratio between drug levels that
Carbamazepine	5.9x	demonstrated preclinical anti-seizure
Lamotrigine	4.6x	toxicity
	Therapeutic Index (TI) = TC <sub>50</sub> / EC <sub>50</sub>	

PRAXIS Source: Praxis Data as of Sept. 3, 2020

Treatment with PRAX-562 has shown significant reduction of seizures in genetic pediatric epilepsy animal models







