

GABA Therapeutics, Inc. – October 2025



GRX-917 Potential First-Line Anxiolytic



- GRX-917 is a superior treatment for anxiety
- De-risked development program, with high probability of success
- NDA in GAD by 2028 (\$2.5B peak revs)
- Strong IP with composition of matter patents through 2042 (US)

De-Risked Program

GRX-917 is an improved analog of an approved anxiety medication

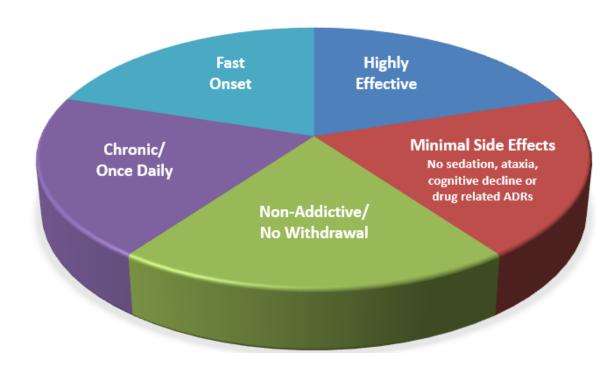
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✓	Target Engagement
✓	Pharmacokinetics (PK)
✓	Safety
✓	Efficacy
✓	Commercial Differentiation

GRX-917 Target Product Profile in Anxiety



- Optimal Efficacy
 - Rapid-onset and efficacy superior/comparable to Xanax[®] & Ativan[®]
- Minimal Adverse Events
 - No sedation
 - No ataxia
 - No cognitive impairment
 - No addiction liability
- Once Daily, Chronic Dosing

"A Fast and Effective Anxiolytic for Chronic Use"



GRX-917 is Deuterated Etifoxine

Same profiles except for improved PK

Stresam®

Etifoxine

Three times daily (TID)

- Safe & effective anxiolytic
- Approved in France 1979 (IP expired 80s)
- Prescribed >50% of new anxiety patients¹
- 100+ published studies
- ETX will never compete with GRX-917 in any other major market (no IP protection)



GRX-917

Deuterated etifoxine

Once daily (QD)

- Same safety, efficacy, MOA
- Improved PK and dosing
- Improved compliance expected

Deuterium Switch Strategy Has a Strong Track Record of Success Multiple blockbuster deuterated therapeutics

Successful Outcomes from Deuterated Products









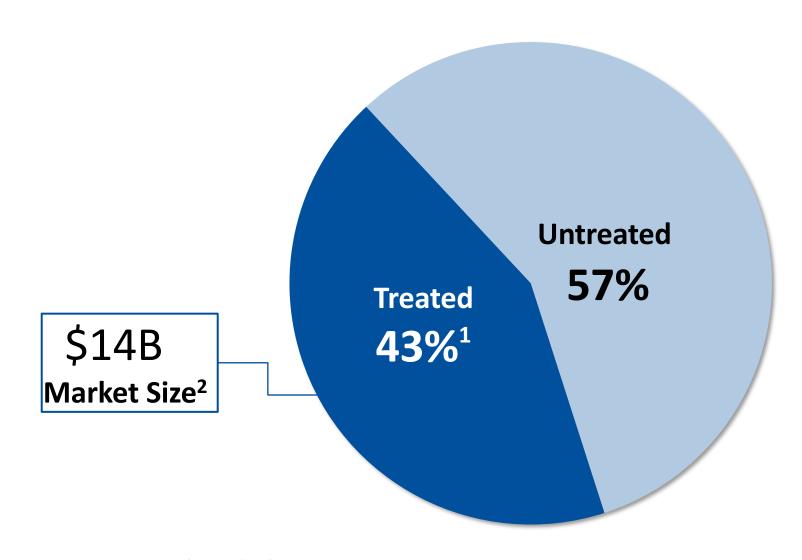




Deuteration:

- ✓ Improves drugs
- Minimizes risk in product development

Most GAD Patients Don't Receive Treatment due to Poor Tolerability and Lack of Effect of Available Therapies



¹Anxiety and Depression Association of America (2024) ²Global Anxiety Market: IMS, per Foster Rosenblatt Market Research

GRX-917 vs. Current Available Treatments

Key Attributes	GRX-917	SSRIs/SNRIs	Benzodiazepines
Rapid Onset	✓	4-8-week delay	√
Efficacy	√	Inferior	✓
Side Effects	√	GI, sexual dysfunction, insomnia, weight gain	Sedation, ataxia, impaired cognition
Addiction Liability	√	√	X
Chronic Usage	✓	√	X

Etifoxine Efficacy: Comparable to Xanax® and Ativan®

Etifoxine Study Result	Etifoxine Clinical Study	N	Reference	Date
Superior efficacy to Clonazepam (Klonopin®)	(P4) ETX vs Clonazepam (Klonopin®)	179	Vicente ¹	2020
Superior efficacy to Phenazepam	(P4) ETX vs Phenazepam	90	Aleksandrovsky ²	2010
Superior efficacy to Buspirone	(P4) ETX vs Buspirone	170	STRETI S.226/GB	1998
Comparable onset and efficacy to Alprazolam (Xanax®)	(P3) ETX vs Alprazolam (Xanax®) Marketing Authorization in India 2024	260	Prabhakar et al (2024) ³	2024
Comparable onset and efficacy to Alprazolam (Xanax®)	(P4) ETX vs Alprazolam (Xanax®) 202		ETIZAL S.650/EN	2015
Comparable onset and efficacy to Lorazepam (Ativan®)	(P4) ETX vs Lorazepam (Ativan®)	191	ETILOR S.392/EN	2006

^{1.} Vicente et al., Psychopharmacology 237, 3357–3367 (2020)

^{2.} Aleksandrovsky et al., Russian Psychiatric Journal; Therapy of the mentally ill; No. 1; 74-78 (2010)

^{3.} Prabhakar et al. Role of Etifoxine in Generalized Anxiety Disorder: a phase III randomized, double-blind, double-dummy, active-controlled study in India. Neuroscience Applied, Vol 3, Supplement 2, 104122 (2024).

Note – GABA management is not aware of any other region where this approval process is available.

Etifoxine Safety: Excellent

Safety Comment Source Cottin et al¹ Non-Addictive "No cases of abuse, misuse or pharmacodependence." (based on +15M Rx) No effects on vigilance or psychomotor performance **No Sedation** Micallef et al2 No Impaired No effect on alertness or other cognitive parameters in elderly Deplanque et al³ Cognition Very rare ADRs found in a PV database of etifoxine are not drug related: Incidence rates < 1 per million PV Analysis of Etifoxine Never reported in any clinical trial of etifoxine (per EMA) or GRX-917 **No Serious Adverse** Serious ADRs in Former FDA Director Psych Products advised: EudraVigilance **Events** Database⁴ No reason to assume causation FDA will not refer to the etifoxine label

Table of Etifoxine Serious Adverse Events from All Controlled Clinical Trials

System Organ Class (SOC) MedDRA PT	Etifoxine hydrochlorid e	Blinded	Active comparator	Placeb o	
Ear and labyrinth disorders	0	0	1	0	
Vertigo	0	0	1	0	
Eye disorders	0	0	1	0	
Retinal artery thrombosis	0	0	1	0	
Hepatobiliary disorders	1	0	0	0	
Jaundice	1	0	0	C	
Injury, poisoning and procedural complications	1	4	1	1	
Contusion	0	1	0	C	
Ligament injury	1	0	0	(
Ligament sprain	0	1	0	(
Overdose	0	0	1	(
Road traffic accident	0	1	0	(
Wound	0	1	0	(
Injury	0	0	0		
Musculoskeletal and connective tissue disorders	0	0	1	(
Back pain	0	0	1	(
Neoplasms, benign malignant and unspecified (incl cyst)	1	0	0		
Fibroma	1	0	0	(
Nervous system disorders	0	0	1	(
Somnolence	0	0	1	(
Psychiatric disorders	0	0	1	(
Suicidal ideation	0	0	1	(
Surgical and medical procedures	1	0	0	(
Cervical conisation	1	0	0	(
TOTAL	4	4	6		

Source: EMA/CHMP Etifoxine Assessment Report, Jan 2022

^{1.} Cottin et al., Fundamental & Clinical Pharmacology 30 (2016) 147–152

^{2.} Micallef et al., 2001 Blackwell Science Fundamental & Clinical Pharmacology 15 (2001) 209-216

^{3.} Deplanque et al., European Neuropsychopharmacology (2018) 28, 925-932

^{4.} Kinexum-Pharmacovigilance Analysis of Etifoxine 2023-03-13

GRX-917 Phase 1 (conducted by GABA) – Evidence of Tolerability and QD Dosing

Safe, well-tolerated, with minimal adverse events

Nervous System Disorders	GRX-917 (n=75)	Placebo (n=25)
Dizziness	4%	4%
Headache	17%	12%
Paresthesia	1%	4%
Somnolence	0%	8%
Ataxia	0%	0%
Lethargy	3%	0%
Cognitive Deficit	0%	0%

GRX-917 Phase 1: A Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of Single and Multiple Ascending Doses of GRX-917 in Healthy Adult Subjects

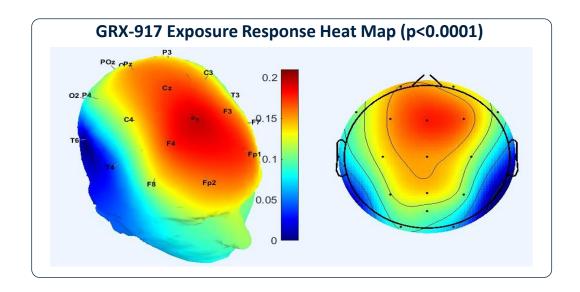
GRX-917 demonstrated improved PK and once-daily dosing

	Etifoxine*	GRX-917
Half-life	4 hours	>12 hours
Daily dose	200 mg	60 mg
Dosing regimen	TID	QD

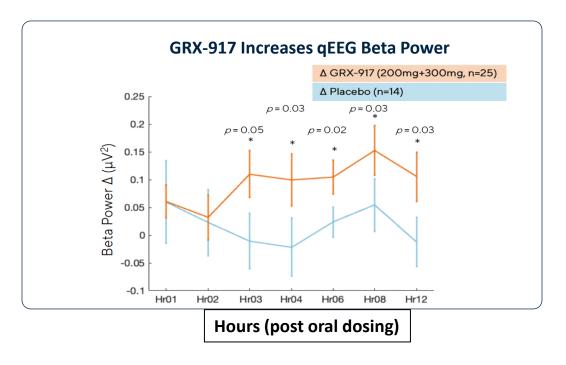
^{*} Etifoxine Phase 1: A Two Stage, Double-Blind, Placebo-Controlled Single and Multiple Dose Study To Evaluate The Pharmacokinetics, Pharmacodynamics, and Safety of Oral Etifoxine in Normal Healthy Volunteers

GRX-917 Increases qEEG Beta Power in Phase 1 qEEG biomarker confirms GABA-A target engagement and supports anxiolytic efficacy

- Increased Beta Power confirms GABA_A receptor target engagement
- Demonstrates exposure response (p<0.0001)
- Supports anxiolytic efficacy

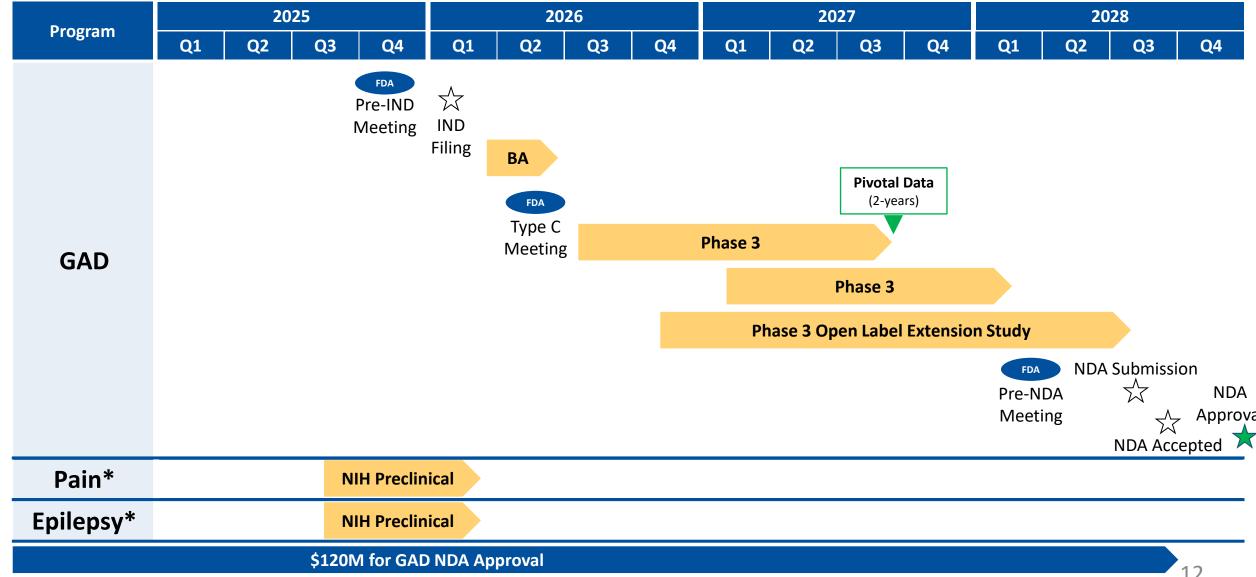


- Increased Beta Power is dose- and timedependent for at least 12 hours (p<0.05)
- Rapid onset, sustained

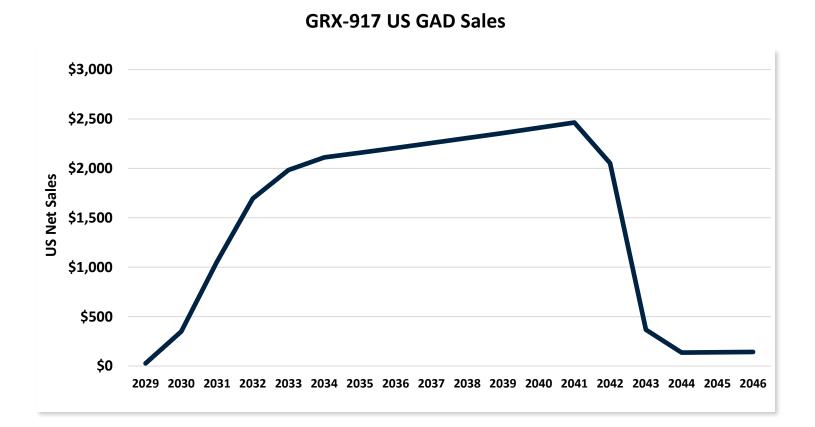


GRX-917 Core GAD Clinical Program

2-Year Inflection Point (1st Phase 3 Readout)



GRX-917 US GAD Sales Forecast: \$2.5B Peak Revs



Key Forecast Assumptions

- US GAD prevalence (2029): 10.8m
- US GAD treated patients (2029): 4.9m
- GRX-917 peak penetration:
 - First line treatment: 10%
 - Uncontrolled patients: 20%
- GRX-917 peak patients on drug: 653k
- Average Rx per year: 4.7
- GRX-917 gross price per Rx: \$623 at launch increasing 1.5% per year
- Gross to net discount: 30%
- US peak revenue: \$2.5B
- Gross margin: 90%

Source: Rosenblatt Life Science

Intellectual Property Overview: Global CoM IP Potentially through 2046

Country 🗐	Date Applied 🔽	Application number 🔽	Status of the application 🔽	Publication No. 💌	Publication date 🔻	Grant No.	Date of grant
Australia	2017-09-20	AU2020201728	Granted	AU2020201728A1	2020-03-26	AU2020201728B2	2021-12-23
Australia	2017-09-20	AU2016235495	Granted	AU2016235495A1	2020-05-14	AU2016235495B2	
Brazil	2017-09-20	BR112017020081-3A	Granted	BR112017020081A2	2018-05-06	BR112017020081B1	2021-11-30
Canada	2017-09-20	CA2979853A	Granted	CA2979853A1	2016-09-29	CA2979853C	2021-05-11
China	2017-09-20	CN201680028306.5	Granted	CN107530323A	2021-05-04	CN107530323B	2021-05-04
Europe	2017-09-20	EP16769437.1	Granted	EP3347006A1	2018-07-18	EP3347006B1	2022-07-27
Validated In:	AL, AT, BE, BG, C	H, CY, CZ, DE, DK, EE, ES,	FI, FR, GB, GR, HR, HU, IE, IS, IT	T, LI, LT, LU, LV, MC, M	IK, MT, NL, NO, PL, PT, RO,	RS, SE, SI, SK, SM, TR	
India	2017-09-20	IN201727035718	Granted	IN201727035718	2017-12-29	IN201727035718	2025-01-28
Israel	2017-09-20	IL270627	Granted	IL270627A	2019-12-31	IL270627B2	2023-03-01
Israel	2017-09-20	IL254567	Granted	IL254567A	2017-11-30	IL254567B	2020-03-31
Japan	2017-09-20	2018-500276	Granted	JP2018508592A	2018-03-29	JP6762507B2	2020-09-30
Japan	2017-09-20	2022-176234	Granted	JP2023009114A	2023-01-19	JP7376668B2	2023-11-08
Mexico	2017-09-20	MX2017011978A	Granted	MX2017011978A	2018-09-02	383647	2021-06-16
South Korea	2017-09-20	KR10-2017-7028263	Granted	KR20170137085A	2018-02-09	KR102290766B1	2021-08-19
USA	2015-03-20	62/135,979	Converted - Provisional	-	-	-	-
USA	2016-03-18	15/557,748	Granted	US20180064717A1	2018-08-03	US10,080,755B2	2018-09-25
USA	2018-09-21	16/138,509	Granted	US20190015419A1	2019-01-17	US10,736,901B2	2020-08-11
USA	2020-08-07	16/988,586	Granted	US20200405726A1	2020-12-31	US11,672,805B2	2023-06-13
USA	2023-01-05	18/141,999	Pending - Published	US20230263805A1	2023-08-24	-	-

- Robust IP portfolio with composition patent protection through at least2036
- Potential Hatch-Waxman extensions through 2042
- New patent filings could increase IP protection through 2046

Capital Requirements and Use of Funds

\$ in millions

Use of Funds	1 st Phase 3 GAD	Total to NDA
IND Opening Studies	\$4.5	\$4.5
Clinical Trials	\$19.0	\$58.0
Tox & Research	\$4.3	\$10.6
CMC	\$0.6	\$18.2
Regulatory	\$0.5	\$2.5
G&A	\$13.5	\$27.7
Total	\$42.0	\$121.0

All costs supported by vendor quotes

Key Executives

Decades of successful leadership, clinical development, and commercialization in pharma and biotech



Mario Saltarelli, M.D., Ph.D.
Chief Executive Officer,
Director











Richard Farrell Chief Financial Officer, Director, & Co-Founder



Deloitte.



Kathryn King, Ph.D. Chief Operating Officer











Mary Szela
Commercial Consultant











David Putnam, Ph.D. Chief Scientific Officer, Co-Founder







Olivier Dasse, Ph.D.
Senior VP of Chemistry,
Co-Founder



Key Advisors

Highly respected leaders in pharma development, psychiatry, and regulatory



Robert Berman, M.D.
Scientific Advisory Board Chairman
Co-Founder, Biohaven



Yale school of medicine



Maurizio Fava, M.D.
Clinical & Regulatory Advisor
Psychiatrist-in-Chief
Mass General/ Harvard Med





Thomas Laughren, M.D.
Clinical & Regulatory Advisor
Former Director, Div. Psych
Products, FDA/CDER





Appendix – Potential Additional Indications

GRX-917 – Induction of Endogenous Neurosteroids

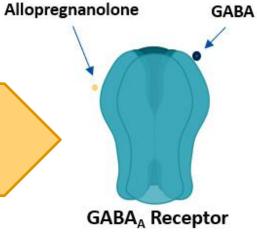
Potent neuromodulatory and anti-inflammatory activity

GRX-917/etifoxine increase neurosteroid synthesis¹



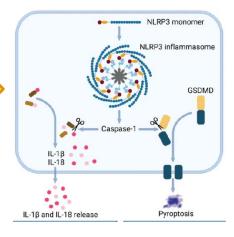
Neurosteroids <u>modulate</u> receptors²

(anxiety, depression, epilepsy)



Neurosteroids <u>inhibit NLRP3</u> inflammation³

(epilepsy, MS, pain, obesity)



NLRP3/IL-1beta Pathway

GRX-917: Pipeline-in-a-Drug *De-risked indications ready to begin clinical trials*

INDICATION	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3
Generalized Anxiety Disorder (GAD)	Phase 3 Ready				Target NDA by 2028
Potential Additional	Indications				
Postpartum Depression MDD	Phase 2 Ready				
Neuroinflammation	Pain, epilepsy, MS, AI				
Systemic Inflammation	Obesity, arthritis, othe	er NLRP3			

GRX-917 Additional Indications Strategy

Strong scientific rationale and clinical/regulatory favorability exist for multiple blockbuster indications beyond GAD NLRP3/IL-1beta inflammation drives all GRX-917 indications

