

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**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): September 19, 2016

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**TONIX PHARMACEUTICALS HOLDING CORP.**

(Exact name of registrant as specified in its charter)

Nevada  
(State or Other Jurisdiction  
of Incorporation)

001-36019  
(Commission  
File Number)

26-1434750  
(IRS Employer  
Identification No.)

509 Madison Avenue, Suite 306, New York, New York 10022  
(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (212) 980-9155

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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 (see General Instruction A.2. below):

- 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))
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**Item 7.01 Regulation FD Disclosure.**

Tonix Pharmaceuticals Holding Corp. (the "Company") intends to utilize an updated investor presentation to conduct meetings with investors, stockholders and analysts and at investor conferences, and which the Company intends to place on its website, which may contain non-public information. A copy of the presentation is filed as Exhibit 99.01.

The information contained in Item 7.01 of this Current Report on Form 8-K, including Exhibit 99.01, is furnished pursuant to, and shall not be deemed to be "filed" for the purposes of, Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that section. The information contained in Item 7.01 of this Current Report shall not be incorporated by reference into any registration statement or any other document filed pursuant to the Securities Act of 1933, as amended, except as otherwise expressly stated in such filing. By filing this Current Report on Form 8-K and furnishing the information contained in this Item 7.01, including Exhibit 99.01, the Company makes no admission as to the materiality of any such information that it is furnishing.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits.

99.01 Corporate Presentation by the Company for September 2016\*

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\* Furnished herewith.

**SIGNATURE**

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

**TONIX PHARMACEUTICALS HOLDING CORP.**

Date: September 19, 2016

By: /s/ SETH LEDERMAN

Seth Lederman

Chief Executive Officer



**NASDAQ: TNXP**

Investor Presentation

September 2016

Version: P0029 09-19-2016

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## Cautionary note on forward-looking statements

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Certain statements in this presentation regarding strategic plans, expectations and objectives for future operations or results are "forward-looking statements" as defined by the Private Securities Litigation Reform Act of 1995. These statements may be identified by the use of forward-looking words such as "anticipate," "believe," "forecast," "estimate," and "intend," among others. These forward-looking statements are based on Tonix's current expectations and actual results could differ materially. There are a number of factors that could cause actual events to differ materially from those indicated by such forward-looking statements. These factors include, but are not limited to, substantial competition; our need for additional financing; uncertainties of patent protection and litigation; uncertainties of government or third party payor reimbursement; limited research and development efforts and dependence upon third parties; and risks related to failure to obtain U.S. Food and Drug Administration clearances or approvals and noncompliance with its regulations. As with any pharmaceutical under development, there are significant risks in the development, regulatory approval and commercialization of new products. The forward-looking statements in this presentation are made as of the date of this presentation, even if subsequently made available by the Company on its website or otherwise. Tonix does not undertake an obligation to update or revise any forward-looking statement, except as required by law. Investors should read the risk factors set forth in the Annual Report on Form 10-K for the year ended December 31, 2015, as filed with the Securities and Exchange Commission (the "SEC") on March 3, 2016, and future periodic reports filed with the SEC on or after the date hereof. All of the Company's forward-looking statements are expressly qualified by all such risk factors and other cautionary statements.

# Developing innovative medicines for large and growing markets

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- **Targeting common central nervous system disorders**
  - One clinical-stage proprietary candidate targeting posttraumatic stress disorder (PTSD)
  - Differentiated product with potential for sustainable competitive advantages
- **PTSD – Phase 2 trial reported May 2016**
  - TNX-102 SL<sup>1</sup> 5.6 mg was active in treating military-related PTSD
  - Serious mental health problem<sup>2</sup>
  - Planning Phase 3 trial in military-related PTSD
- **All intellectual property owned by Tonix**

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<sup>1</sup>TNX-102 SL (cyclobenzaprine HCl sublingual tablets) is an Investigational New Drug and is not approved for any indication.

<sup>2</sup>Schnurr, PP et al., *Contemporary Clinical Trials* 2015;41:75.

# Overview: PTSD program

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- **Results from multi-center, double-blind, randomized, placebo-controlled Phase 2 trial in military-related PTSD reported May 2016**
  - Optimal therapeutic dose identified
    - TNX-102 SL 5.6 mg was active in treating military-related PTSD
    - Reduction in symptoms and disease severity [(Clinician-Administered PTSD Scale) CAPS-5]
    - Improvement in clinical global impression (CGI-I)
    - Improvement in function (Sheehan Disability Scale domains for work/school and social/leisure)
  - Systemic side effects include somnolence, dry mouth, headache and sedation
  - Administrative site reactions were common (transient tongue numbness)
  - Completion rate for TNX-102 SL 5.6 mg was 84% and for placebo was 73%
- **Phase 3 program planned**
  - U.S. Food and Drug Administration (FDA) acceptance of proposed Phase 3 program at August 2016 EOP2/Pre-Phase 3 meeting
  - TNX-102 SL 5.6 mg is the appropriate dose for confirmatory study
  - An adaptive design Phase 3 study in military-related PTSD similar to AtEase is being planned Q1 2017
    - CAPS-5 enrollment threshold will be changed from  $\geq 29$  to  $\geq 33$
- **Potential for Breakthrough Therapy Designation**



## Tonix is developing TNX-102 SL for PTSD

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- **Advanced sublingual tablet containing low-dose cyclobenzaprine (CBP)**
  - Designed for daily bedtime administration with no titration
  - Efficient transmucosal absorption
  - Avoidance of first-pass metabolism reduces formation of long-lived metabolite
- **TNX-102 SL's pharmacologic action is believed to improve sleep quality**
  - Disturbed sleep is a common clinical feature of PTSD
  - TNX-102 SL targets receptors believed to play key roles in sleep physiology
- **Phase 2 "AtEase" study was successfully completed in May 2016**
- **FDA acceptance of Phase 3 proposal and product registration plan in August 2016**



# PTSD is a chronic stress disorder triggered by a traumatic event

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- **PTSD is characterized by:**
  - Re-experiencing the triggering event
  - Negative alterations in mood/cognition
  - Situation/stimulus avoidance
  - Hyperarousal (anxiety, agitation & sleep disturbance)
- **Considered a stress response, but prolonged and does not resolve with time**
  - 20% of women and 8% of men in the U.S. who experience significant trauma develop PTSD<sup>1</sup>
- **Associated with significant life disruption**
  - Social isolation, inability to maintain employment, loss of independent living
  - Unpredictable acts of violence, suicidal thoughts

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<sup>1</sup> Kessler et al, *Arch Gen Psychiatry* 1995;52:1048.

# PTSD is a prevalent problem for both civilians and the military

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- **~70% are considered to have moderate to severe symptoms**
- **Of those diagnosed, ~50% utilize professional healthcare (psychotherapy/pharmacotherapy)<sup>2</sup>**

- **Higher prevalence in military population**

- 20% of veterans from recent conflicts will have potential/provisional PTSD<sup>3</sup>
- ~638,000 veterans with PTSD in the Veterans Affairs (VA) health system (2012)<sup>4</sup>
- Majority are male
- Alcohol and substance abuse are common

<sup>1</sup>Kessler RC et al, *Arch Gen Psychiatry* 2005;62:617; U.S. Census Bureau, 2013 Projection.

<sup>2</sup>Wang et al, *Arch Gen Psychiatry* 2005;62:629.

<sup>3</sup>Report on VA Facility Specific Operation Enduring Freedom (OEF), Operation Iraqi Freedom (OIF), and Operation New Dawn (OND) Veterans Diagnosed with Potential or Provisional PTSD.

<sup>4</sup>Bowe et al, *J Dual Diagnosis* 2015;11:22.

# Limitations of current FDA-approved pharmacotherapies for military-related PTSD

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- **No treatment response observed in U.S. military population**
  - Sertraline: negative large multi-center trial in U.S. military veterans<sup>1</sup>
    - Placebo numerically superior on CAPS-2
  - Paroxetine: not studied in military population
- **Inconsistent treatment response observed in males**
  - Sertraline: FDA-conducted post-hoc analysis concluded no effect for male civilian subgroup<sup>2</sup>
  - Paroxetine: no gender-related difference in treatment outcome<sup>3</sup>
- **Important tolerability considerations with SSRIs in this population**
  - Sexual dysfunction
  - Insomnia

*SSRI: Selective Serotonin Reuptake Inhibitor.*

<sup>1</sup>Friedman MJ et al. *J Clin Psychiatry* 2007;68:711-20.

<sup>2</sup>Zoloft® Package Insert, Pfizer, August 2014.

<sup>3</sup>Paxil® Package Insert, Glaxo, June 2014.

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### AtEase Study

- Randomized, double-blind, placebo-controlled trial
- DSM-5 diagnostic criteria for PTSD
- 231\* participants studied 2:1:2 at 24 U.S. sites
  - 1 x TNX-102 SL 2.8 mg tablet: 2 x TNX-102 SL 2.8 mg tablets: placebo
- Evaluated the Clinician Administered PTSD Scale for DSM-5 (CAPS-5) as primary endpoint
  - Pre-specified primary analysis was 2.8 mg dose

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\*Modified intent-to-treat (mITT) population

## Phase 2 AtEase trial of TNX-102 SL in PTSD

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### TNX-102 SL at bedtime once-daily

(1 x 2.8 mg SL tablet) 2.8 mg  $N= 90$

### TNX-102 SL at bedtime once-daily

(2 x 2.8 mg SL tablets) 5.6 mg  $N= 49$

### Placebo at bedtime once-daily

$N= 92$

- Randomized, double-blind, placebo-controlled trial in military-related PTSD
- Analysis from 231 patients; 24 U.S. clinical sites
- **Primary efficacy analysis:**
  - Difference in CAPS-5 score between TNX-102 SL 2.8 mg and placebo at week 12



Enrolled patients with baseline CAPS-5  $\geq 29$



### Key Demographics / Characteristics of AtEase

- 93% of the patients were male
- 98% had trauma during military service and were deployed on average 2.3 times
- Mean time since index trauma was 7 years
- Race and ethnicity generally consistent with U.S. military distribution
- Similar baseline CAPS-5 scores and MADRS<sup>1</sup> scores across treatment arms
  - Average CAPS-5 scores were greater than 39 for all groups ('severe' PTSD<sup>2</sup>)

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<sup>1</sup>Montgomery-Åsberg Depression Rating Scale

<sup>2</sup>personal communication – Frank Weathers PhD, National Center for PTSD

## AtEase results on key clinical endpoints

TNX-102 SL 5.6 mg compared to placebo

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Category	Endpoint – week 12 <sup>1</sup>	p value
PTSD Symptoms	CAPS-5 (MMRM with MI)	<b>0.031</b>
Global improvement	CGI-I (Logistic Regression)	0.041
Arousal and reactivity	CAPS-5 cluster (MMRM)	0.048
Sleep Quality	CAPS-5 sleep (MMRM)	0.010

*p < 0.05 → statistically significant*

**AtEase pre-specified primary analysis:**

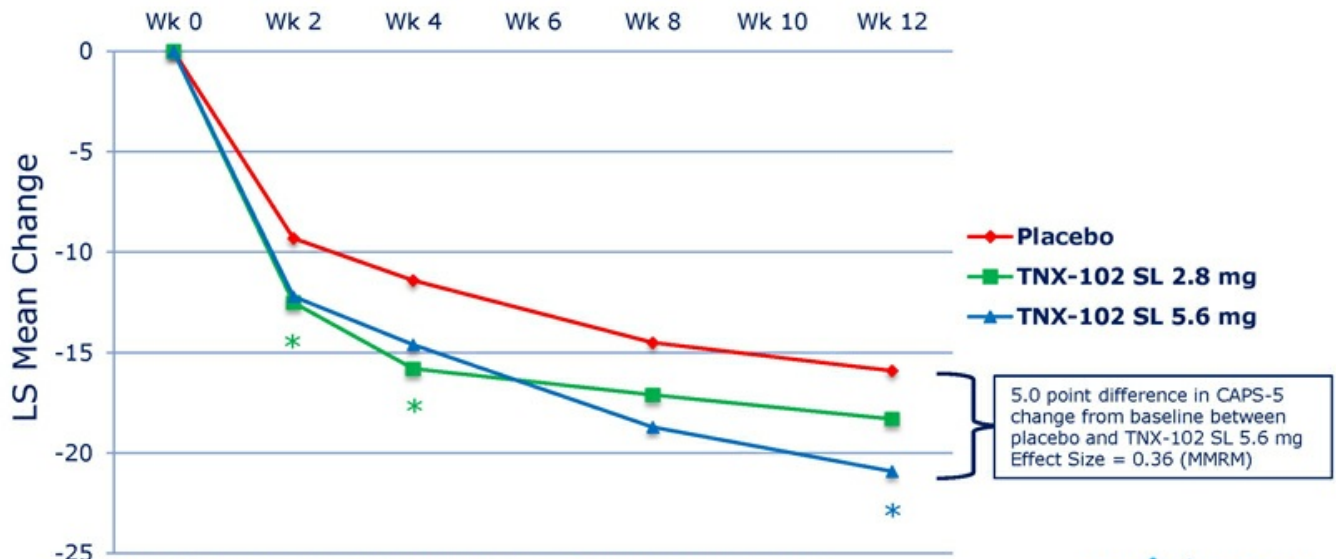
change from baseline at week 12 mean  
CAPS-5 score on 2.8 mg (p=0.259, MMRM)

- MMRM with MI: Mixed-effect Model Repeated Measures with Multiple Imputation
- CAPS-5: Clinician Administered PTSD Scale-5
- CGI-I: Clinical Global Impression- Improvement

<sup>1</sup>Modified Intent-to-treat analysis, N=231 (TNX-102 SL 2.8 mg N=90, TNX-102 SL 5.6 mg N= 49, placebo N=92).



# AtEase study results: CAPS-5 total score mean change from baseline

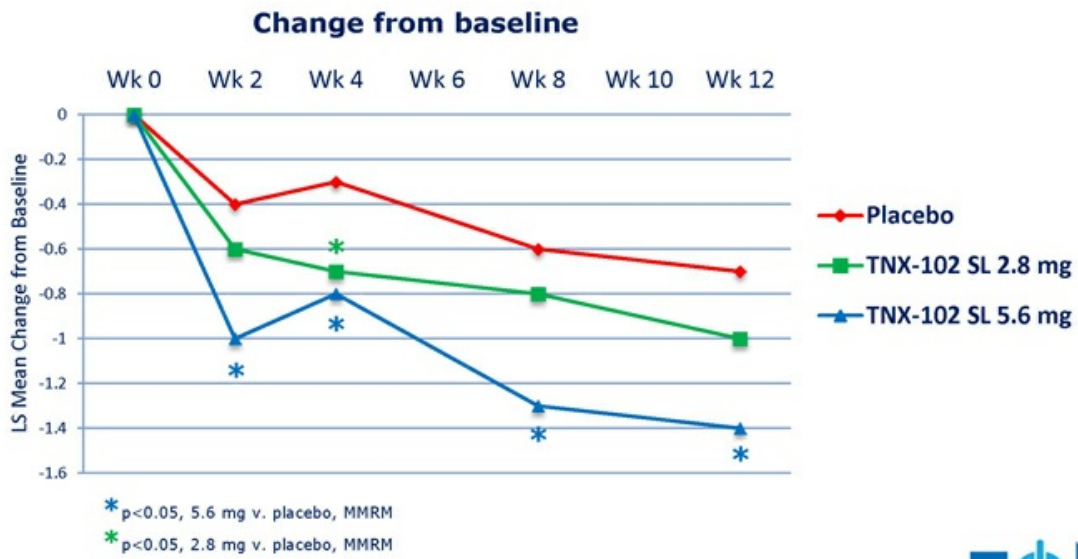


5.0 point difference in CAPS-5 change from baseline between placebo and TNX-102 SL 5.6 mg  
Effect Size = 0.36 (MMRM)

\*p=0.031, comparing placebo and TNX-102 SL 5.6 mg, \*p<0.05, comparing placebo and TNX-102 SL 2.8 mg, by MMRM with MI, mixed-effect model repeated measures with multiple imputation; CAPS-5, Clinician Administered PTSD Scale for DSM-5; LS Mean, least squares mean

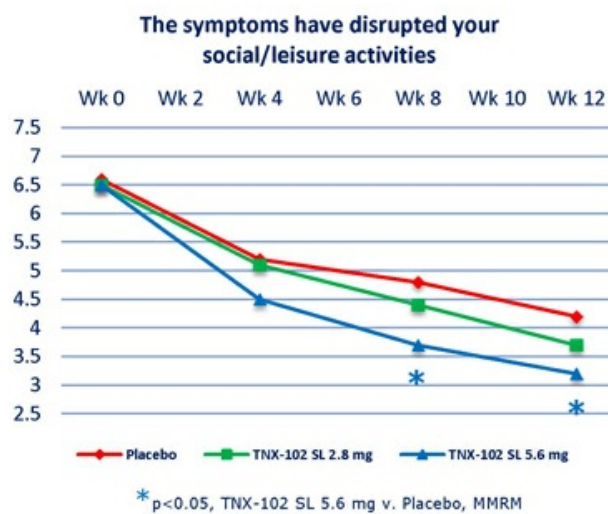
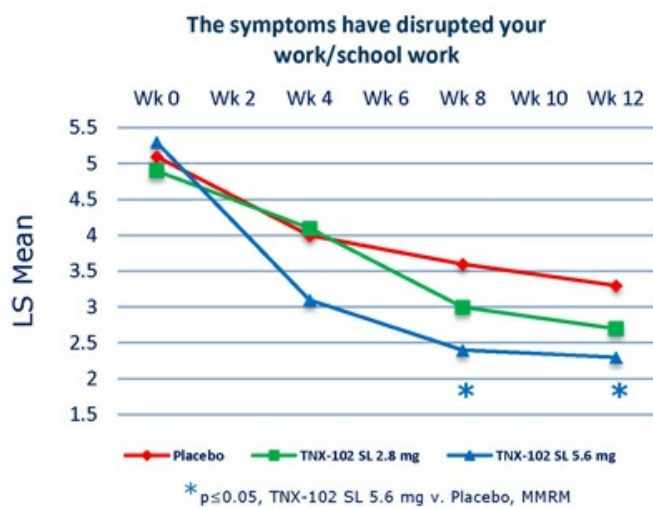


# AtEase study results: CAPS-5 sleep disturbance



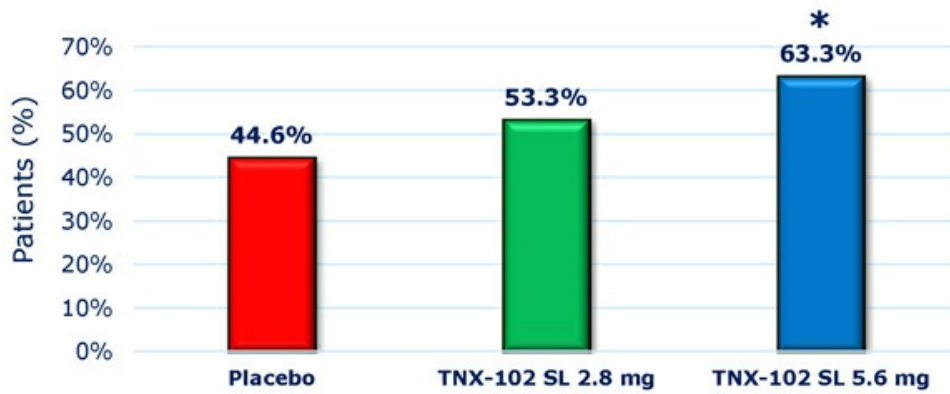
# AtEase study results: Sheehan Disability Scale

## Sheehan Disability Scale – Work/School & Social Leisure Domains



# AtEase study results: Clinical Global Impression

## Responders



\*p=0.041, Logistic regression comparing placebo and TNX-102 SL 5.6 mg  
Responders are those rated as "much improved" or "very much improved"



## TNX-102 SL safety and tolerability profile in the AtEase study

No serious adverse events reported with TNX-102 SL deemed related to treatment

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Systemic Adverse Events*	Placebo (N=94)	TNX-102 SL 2.8 mg (N=93)	TNX-102 SL 5.6 mg (N=50)	Total TNX-102 SL (N=143)
Somnolence	6.4%	11.8%	16.0%	13.3%
Dry Mouth	10.6%	4.3%	16.0%	8.4%
Headache	4.3%	5.4%	12.0%	7.7%
Insomnia	8.5%	7.5%	6.0%	7.0%
Sedation	1.1%	2.2%	12.0%	5.6%
<b>Administration Site Reactions*</b>				
Hypoaesthesia oral	2.1%	38.7%	36.0%	37.8%
Paraesthesia	3.2%	16.1%	4.0%	11.9%
Glossodynia	1.1%	3.2%	6.0%	4.2%

**Trial completion rates: 73% placebo; 79% TNX-102 SL 2.8 mg; 84% TNX-102 SL 5.6 mg**

\*at rates of >5% in either drug-treated arm, Safety population N=237

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## Determining CAPS-5 severity criteria for entry in phase 3 trials

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- **CAPS-5 has not been employed previously in a pharmacotherapy trial; entry severity threshold not clear;  $\geq 29$  used in the Phase 2 AtEase study**
- **Prior pharmacotherapy trials in PTSD using earlier versions of CAPS with different scoring range have most frequently used a score of  $\geq 50$  for entry (similar to CAPS-5  $\geq 33$ <sup>1</sup>)**
- **Analysis of patients with CAPS-5  $\geq 33$  showed an effect size of 0.53 on mean change from baseline at Week 12 in TNX-102 SL 5.6 mg group (see figure on next slide)**

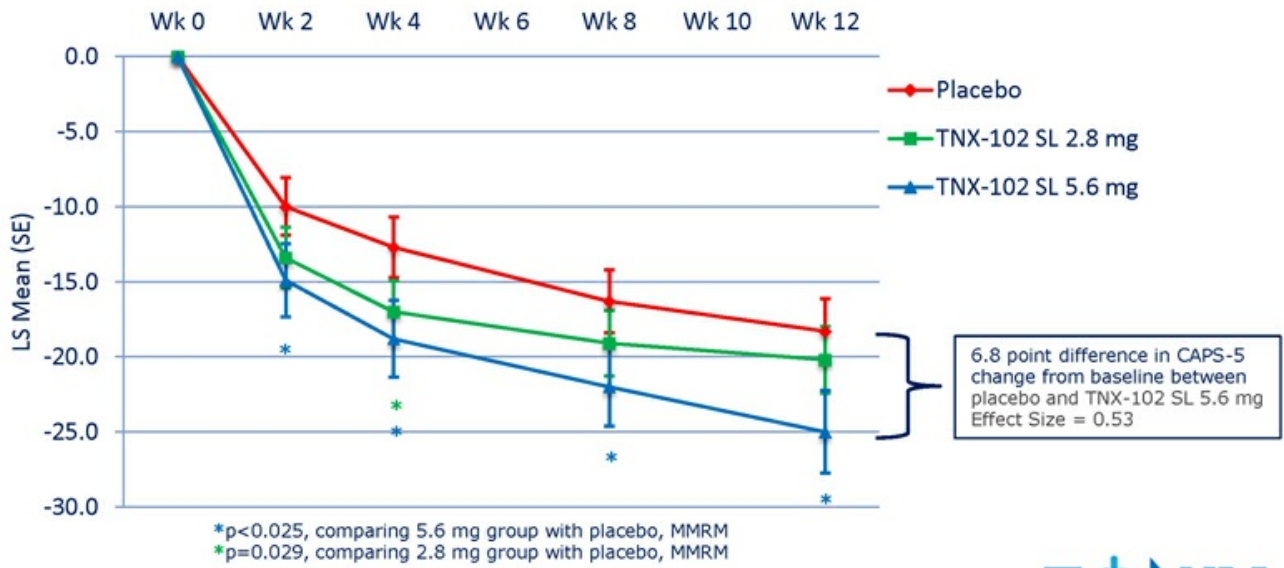
<sup>1</sup>Sullivan, Gregory, et al. "The AtEase Study: Efficacy and Safety of a Low Dose, Bedtime, Sublingual Formulation of Cyclobenzaprine (TNX-102 SL) for the Treatment of Military-Related PTSD." Poster session presented at: Military Health System Research Symposium (MHSRS) 2016 Annual Meeting; 2016 Aug 15-18; Kissimmee, FL. URL: <http://bit.ly/2bFo4mx>



# CAPS-5 mean change from baseline for entry CAPS $\geq 33$

Retrospective subset analysis of patients with entry CAPS-5  $\geq 33$

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# CAPS-5 cluster scores

## Comparing CAPS-5 Severity Entry Criteria $\geq 33$ and $\geq 29$

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- Table shows the significance levels and effect sizes of the CAPS-5 cluster scores, comparing TNX-102 SL 5.6 mg and placebo, using a CAPS-5 baseline entry criterion of  $\geq 33$  and the per protocol threshold of  $\geq 29$

CAPS-5 Cluster	Entry criteria of CAPS-5 $\geq 33$ 5.6 mg (N=38) vs Placebo (N=77)		Entry criteria of CAPS-5 $\geq 29$ 5.6 mg (N=49) vs Placebo (N=92)	
	Effect Size	P-value*	Effect Size	P-value*
Cluster B (Intrusion)	0.46	<b>0.026</b>	0.26	0.161
Cluster C (Avoidance)	0.12	0.522	0.04	0.963
Cluster D (Mood/Cognitions)	0.39	0.065	0.35	0.062
Cluster E (Arousal & Reactivity)	0.52	<b>0.012</b>	0.35	<b>0.048</b>

\* MMRM, mixed-effects model repeated measures

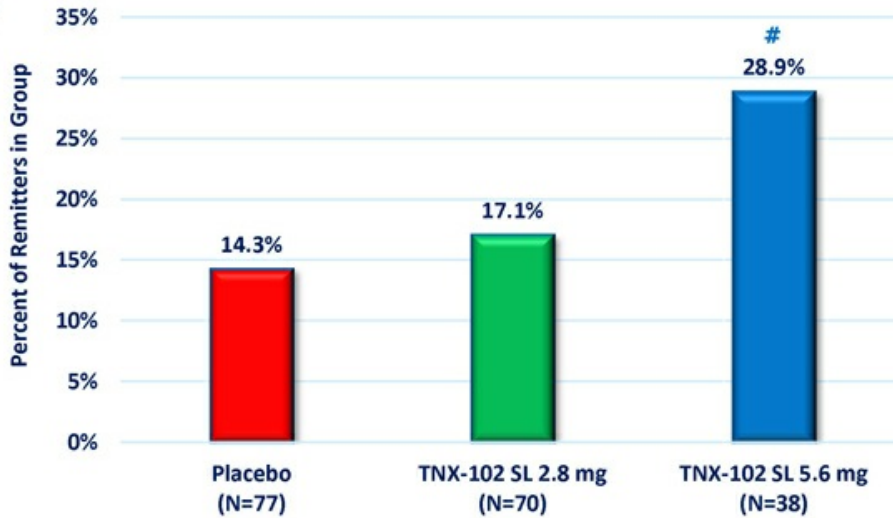


# Rate of remission from PTSD in each treatment arm

Retrospective subset analysis of patients with entry CAPS-5  $\geq 33$

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- Remission is defined as CAPS-5 score  $<11$  at week 12
- Trend for greater rate in TNX-102 SL 5.6 mg versus placebo in entry CAPS-5  $\geq 33$  sample



\*p=0.10 NS, comparing placebo and TNX-102 SL 5.6 mg, logistic regression

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## AtEase study conclusions

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- **This Phase 2 trial is the first large multi-center trial of an investigational new drug product that demonstrated efficacy in a population with military-related PTSD**
  - Symptom reduction (CAPS-5)
  - Functional improvement (Sheehan Disability Scale domains)
  - Global improvement (CGI-I)
- **Early effects on sleep and hyperarousal are consistent with the mechanistic hypothesis of TNX-102 SL primary actions on sleep disturbance and autonomic balance**
- **Systemic side effects included include somnolence, dry mouth, headache and sedation; local reactions to sublingual TNX-102 SL administration were common (transient tongue numbness)**
- **A post-hoc analysis suggested that enrolling patients with a higher CAPS-5 score ( $\geq 33$ ) would be similar to the entry criteria used in the registration studies supporting the approval of the marketed PTSD drug products**
  - Same post-hoc analysis revealed a larger separation from placebo in the subset of patients with baseline CAPS-5  $\geq 33$  at weeks 2, 4, 8 and 12
  - Phase 3 program will use CAPS-5  $\geq 33$  as enrollment threshold

# Planned Phase 3 program in PTSD

## To confirm AtEase finding in military-related PTSD:

- Larger adaptive design study
- Targeting start in Q1 2017

**TNX-102 SL once-daily at bedtime**

5.6 mg       $N \sim 90^*$

**Placebo once-daily at bedtime**

$N \sim 90^*$

————— **12 weeks** —————>

\* First interim analysis

## General Study Characteristics:

- Randomized, double-blind, placebo-controlled, entrance CAPS-5  $\geq 33$
- At least one unblinded interim analyses (IA)
- First IA ( $N \sim 180$ ) for efficacy stop, futility or sample size adjustment
- Potential to enroll 550 patients
- Approximately 25 U.S. clinical sites

## Primary Efficacy Endpoint:

- Mean change from baseline in total CAPS-5 at Week 12 compared between TNX-102 SL 5.6 mg and placebo

**First IA topline data anticipated 2H 2017**

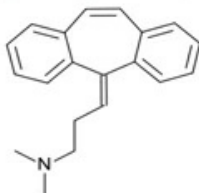
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## **TNX-102 SL**

- **Composition-of-matter (eutectic)**
  - Patents filed
  - Protection expected to 2034
- **Pharmacokinetics (PK)**
  - Patents filed
  - Protection expected to 2033
- **Method-of-use**
  - PTSD: patents filed

- **Cyclobenzaprine is a tricyclic molecule that binds to a number of central nervous system (CNS) receptor types**

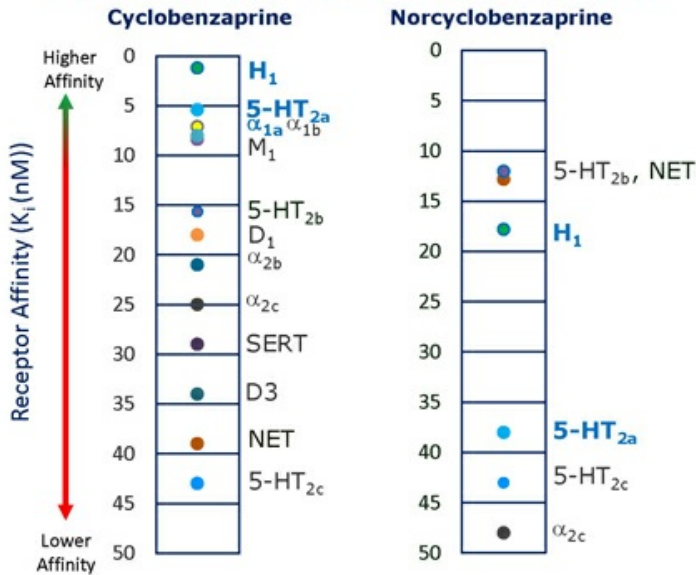


- **Highest affinity for three receptors believed to have a role in treating sleep disturbances**
  - 5-HT<sub>2A</sub> receptor
  - $\alpha_1$  adrenergic receptor
  - H<sub>1</sub> receptor



# Receptor binding profile: Parent and primary metabolite

## Receptor Binding Dot Plots for Human Receptors



### Undesirable Characteristics of Norcyclobenzaprine (nCBP)

- Half-life (t<sub>1/2</sub>) of 72 hours (will accumulate)
- At steady-state, projected similar exposure day and night
- Distinct receptor binding profile less selective for target receptors
- Potential undesirable off-target functional activities

**Bold Blue:** Target receptors

**Black:** Off-target receptors



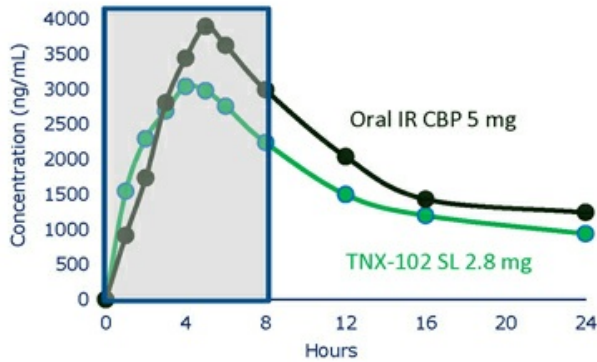


# TNX-102 SL single-dose PK study

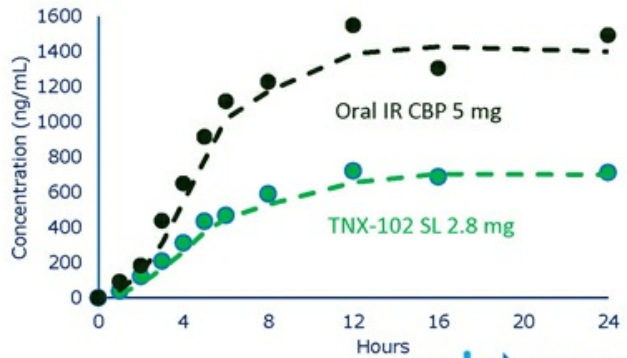
TNX-102 SL 2.8 mg PK profile relative to 5 mg oral immediate release (IR) CBP:

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- CBP:**
- ✓ Rapid absorption for bedtime dosing
  - ✓ Peak concentration ( $C_{max}$ ) reduced by 20%
  - ✓ Maintains  $t_{max}$  at ~4 hours



- nCBP:**
- ✓ Lower exposure of nCBP by 48%
  - ✓ Higher ratio of CBP relative to nCBP
- Ratio of CBP AUC<sub>0-48</sub>/nCBP AUC<sub>0-48</sub> :
- 1.9 for TNX-102 SL 2.8 mg
  - 1.2 for immediate release CBP 5 mg



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## TNX-102 SL: Pharmacokinetic profile after sublingual route of administration

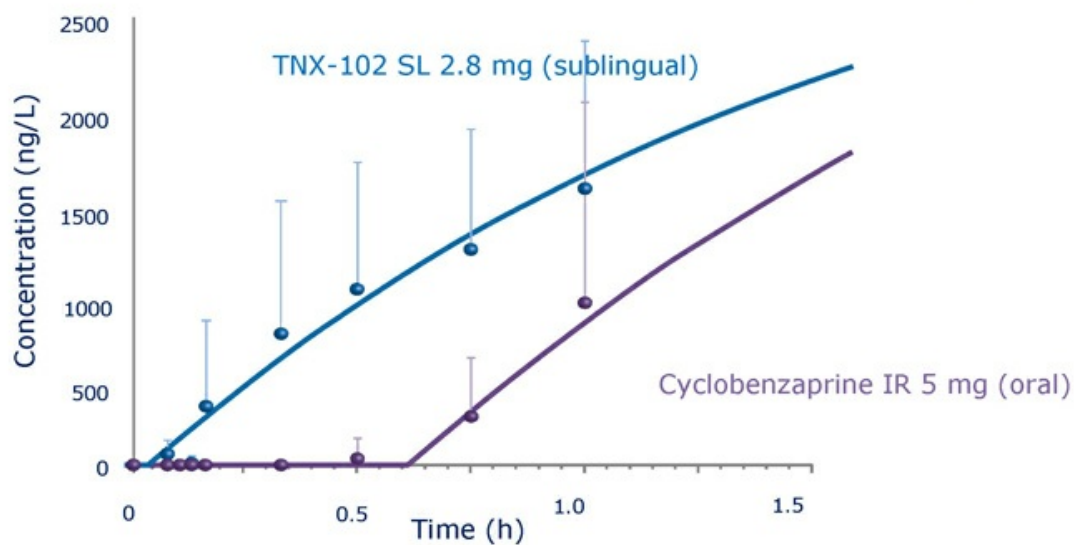
28

- **Very rapid absorption after dosing (measurable in plasma within 3 minutes of administration)**
  - Reaching  $t_{max}$  at ~4 hours after dosing
  - Approximately 50% of exposure to cyclobenzaprine occurs during first 8 hours
- **Avoids first-pass hepatic metabolism to long-lived major metabolite, norcyclobenzaprine**
  - Large reduction in exposure to norcyclobenzaprine (↓ 48%  $AUC_{0-48}$ )
  - Decreased potential for adverse events

# Cyclobenzaprine is detected in plasma within minutes following sublingual TNX-102 SL

Plasma Concentration Versus Time of TNX-102 SL Compared to Oral Cyclobenzaprine IR

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Source: U.S. Patent applications 13/918,692 - Transmucosal absorption.

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# Management team

**Seth Lederman, MD**  
President & CEO



**Bruce Daugherty, PhD, MBA**  
Chief Scientific Officer



**Gregory Sullivan, MD**  
Chief Medical Officer



COLUMBIA UNIVERSITY  
Department of Psychiatry

New York State  
Psychiatric Institute

**Bradley Saenger, CPA**  
Chief Financial Officer



**Jessica Edgar Morris**  
EVP, Operations

Deutsche Bank



**Ronald Notvest, PhD**  
EVP, Commercial Planning & Development



## Board of directors

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**Seth Lederman, MD**

Chairman

**Ernest Mario, PhD**

ALZA, Glaxo, Reliant Pharma

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**Stuart Davidson**

Labrador Ventures, Alkermes, Combion

**Charles Mather**

BTIG, Janney, Jefferies, Cowen, Smith Barney

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**Patrick Grace**

Apollo Philanthropy, WR Grace, Chemed

**John Rhodes**

NYSERDA, NRDC, Booz Allen Hamilton

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**Donald Landry, MD, PhD**

Chair of Medicine, Columbia University

**Samuel Saks, MD**

Jazz Pharma, ALZA, Johnson & Johnson

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## **TNX-102 SL – Posttraumatic Stress Disorder**

- December 2015**      **Entered into Collaborative Research and Development Agreement (CRADA) with the United States Army Medical Materiel Development Activity (USAMMDA)**
- May 2016**            **Report results from AtEase study**
- August 2016**        **End of Phase 2 meeting with FDA**
  - Proposed Phase 3 and NDA plan accepted
  - Breakthrough Therapy Designation Request can be submitted for review
- Q1 2017**              **Target commencement of Phase 3 study in military-related PTSD**
- 2H 2017**              **Topline data from interim analysis of Phase 3 study in ~180 military-related PTSD patients**



**NASDAQ: TNXP**

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