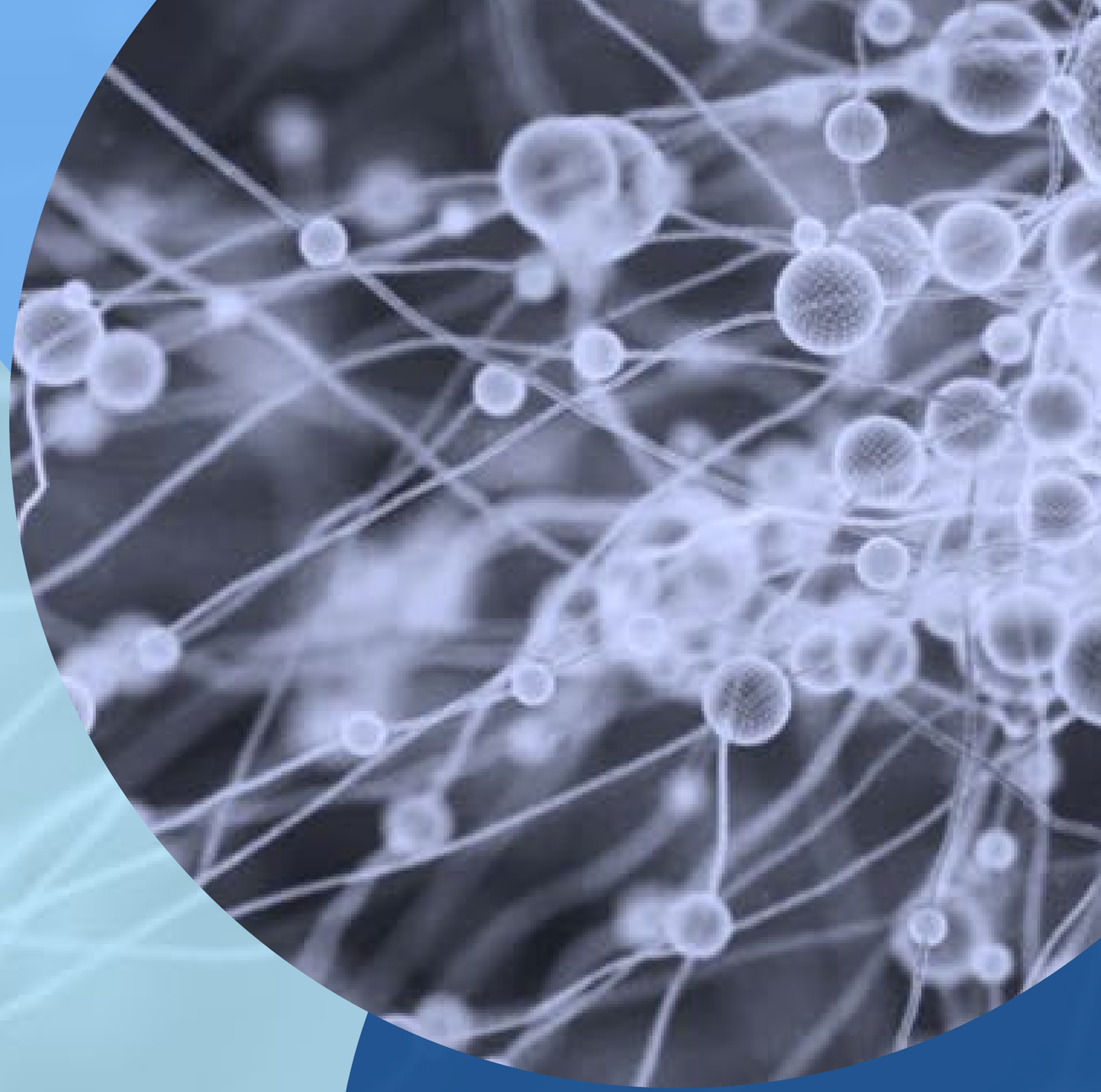
TRYPTAMINE THERAPEUTICS

Precision Psychedelic Therapy



June 2025

ASX : TYP

This presentation has been authorised for release by the Board of Tryptamine Therapeutics Limited

DISCLAIMERS

The information contained in this presentation (the "Presentation") has been prepared by Tryp Therapeutics Inc. ("Tryp" or the "Company") and contains information pertaining to the business, operations and assets of the Company. The information contained in this Presentation (a) is provided as at the date hereof and is subject to change without notice, (b) is for informational purposes only and does not purport to contain all information (including all material information) that may be necessary or desirable to fully and accurately evaluate the Company, (c) did not take into account the investment objectives, financial situation and particular needs of any particular investor, (d) is not to be considered as a recommendation by the Company that any person make an investment in Tryp, and (e) further advice should be obtained from a professional investment adviser before taking any action on any information dealt with in the Presentation. Those acting upon any information without advice do so entirely at their own risk.

This Presentation does not constitute an offer to sell or solicitation of an offer to buy any of the securities of Tryp. The sole purpose of this Presentation, in paper or electronic form, is strictly for information purposes. Neither Tryp, nor any of its current or proposed directors, officers, owners, managers, partners, consultants, employees, affiliates or representatives, make any warranty or representation, whether express or implied, or assume any legal liability or responsibility for any action taken in reliance upon this Presentation, or for the accuracy, completeness, fairness, or usefulness of any information disclosed in this Presentation.

Forward Looking Information. This Presentation contains forward looking statements with respect to Tryp. By their nature, forward looking statements involve risks and uncertainties and are subject to a variety of factors that could cause actual results to differ materially from the results suggested by the forward-looking statements. In addition, the forward-looking statements require Tryp to make assumptions and are subject to inherent risks and uncertainties. There is significant risk that the forward-looking statements will not prove to be accurate, that Tryp's assumptions may not be correct and that actual results may differ materially from such forward-looking statements. Accordingly, readers should not place undue reliance on the forward-looking statements. Generally, forward looking statements can be identified by the use of terminology such as "anticipate", "will", "expect", "may", "continue", "could", "estimate", "forecast", "plan", "potential" and similar expressions. Forward looking statements contained in this Presentation may include, but are not limited to statements with respect the outlook for the psilocybin industry and related industries; challenges and opportunities related to the psilocybin industry; the completion and timing of clinical studies; the ability of any patents resulting from Tryp's patent applications to protect the commercial prospects of its assets; the achievement, and the timing of, certain development milestones and the successful execution of Tryp's business strategy (including its business model and mission); the use and benefits of Tryp's products and services; demographic and market size/trends; forecasts of revenue and financial projections/growth potential; Tryp's ability to obtain marketing exclusivity for any of its approved drug products; anticipated capitalization, projected milestones and the go-forward management of Tryp; These forward looking statements are based on a number of assumptions which may prove to be incorrect including, but not limited to: general economic, market and business conditions, the outcome of research studies, the ability to obtain certain approvals, the accuracy of cost estimates, ability to obtain sufficient capital on satisfactory terms, availability of equipment and supplies, changes in customer demand, the successful and timely implementation of capital projects, currency exchange rates and the impact of changes in applicable laws and regulations. The forward-looking statements contained in this Presentation are made as of the date hereof or the dates specifically referenced in this Presentation, where applicable. Except as required by law, Tryp undertakes no obligation to update publicly or to revise any forward-looking statements that are contained or incorporated in this Presentation. All forward looking statements contained in this Presentation are expressly qualified by this cautionary statement.

Third-Party Information. This Presentation includes market and industry data obtained from various publicly available sources and other sources believed by the Company to be reliable. Although the Company believes it to be reliable, the Company has not independently verified any of the data from third-party sources referred to in this Presentation or analyzed or verified the underlying reports relied upon or referred to by such sources, or ascertained the underlying assumptions relied upon by such sources. The Company does not make any representation or warranty, express or implied as to the accuracy of such information. .No responsibility or liability is accepted for that information or those opinions or for any errors, omissions, misstatements (negligent or otherwise) or for any communication written or otherwise, contained or referred to in this Presentation. Some numbers in this Presentation may not be exact or add consistently due to rounding.

Accordingly, neither the Company nor any of its directors, officers, employees, advisers, associated persons or subsidiaries are liable for any direct, indirect or consequential loss or damage suffered by any person as a result of relying upon any statement in this Presentation or any document supplied with this Presentation, or by any future communications in connection with those documents and all of those losses and damages are expressly disclaimed.

Electronic Form. This Presentation may have been sent to you in an electronic form. You are reminded that documents transmitted via this medium may be altered or changed during the process of electronic transmission. You are responsible for protecting against viruses and other destructive items. Your receipt of this electronic transmission is at your own risk, and it is your responsibility to take precautions to ensure that it is free from viruses and other items of a destructive nature. As a consequence of the above, neither the Company nor any director, officer, employee or agent of any of them or any affiliate of any such person accepts any liability or responsibility whatsoever in respect of any difference between the document distributed to you in electronic format and the hard copy version that may be made available to you.

This Presentation and its contents are confidential and should not be distributed, published or reproduced in whole or in part or disclosed by recipients to any other person without the prior written consent of the Company. The Company does not assume responsibility for liabilities, losses or damages suffered by the recipients of this Presentation or any other person as a result of the circulation, reproduction or use of this Presentation.

Psilocybin. Psilocybin is currently a Schedule III drug under the Controlled Drugs and Substances Act, S.C. 1996, c. 19 (the "CDSA") and it is a criminal offence to possess substances under the CDSA without a prescription. Health Canada has not approved psilocybin as a drug. While the Company is focused on developing products using psilocybin, the Company does not have any direct or indirect involvement with the illegal selling, production or distribution of any substances. The Company does not currently manufacture, store or otherwise handle psilocybin directly and will only do so through agents within laboratory and clinical trial settings conducted within approved regulatory frameworks. The Company's products that contain psilocybin or other psychedelic compounds will not be commercialized prior to applicable regulatory approval, which will only be granted if clinical evidence of safety and efficacy for the intended uses is successfully developed.

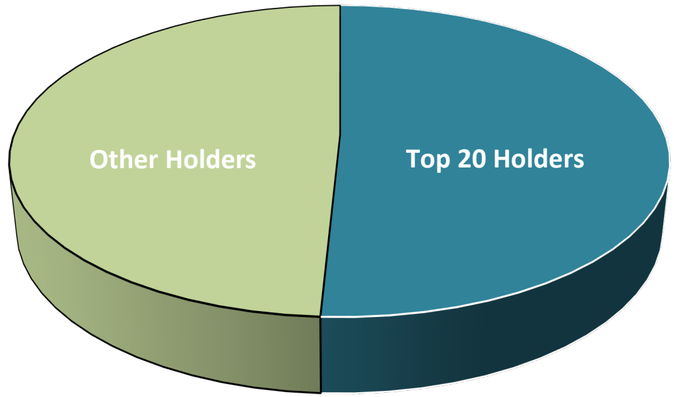
All medicines carry risks and specialist prescribers, such as registered psychiatrists are best placed to assess the suitability of a new medication against a patient's individual circumstances and medical history before proceeding.

Adverse effects of psilocybin and its derivatives can include temporary increase in blood pressure and a raised heart rate. There may be some risk of psychosis in predisposed individuals. These effects of psilocybin and its derivatives are unlikely at low doses and in the treatment regimens used in psychedelic-assisted psychotherapy and appropriately managed in a controlled environment with direct medical supervision.

Tryptamine Therapeutics – aka – the best kept secret on the ASX

Snapshot:	
ASX code:	TYP
Shares on issue:	1.439Bn
Market capitalisation: (at $0.03 per share)	AU$43.2m
Cash at bank: (as at 31 Mar 2025)	AU$4.6m*
Debt:	Nil

Board of Directors	
Non-Executive Chairman	Mr. Herwig Janssen
Chief Executive Officer	Mr. Jason Carroll
Executive Director	Mr. Chris Ntoumenopoulos
Non-Executive Director	Dr. Daniel Tillett
Non-Executive Director	Mr. Gage Jull

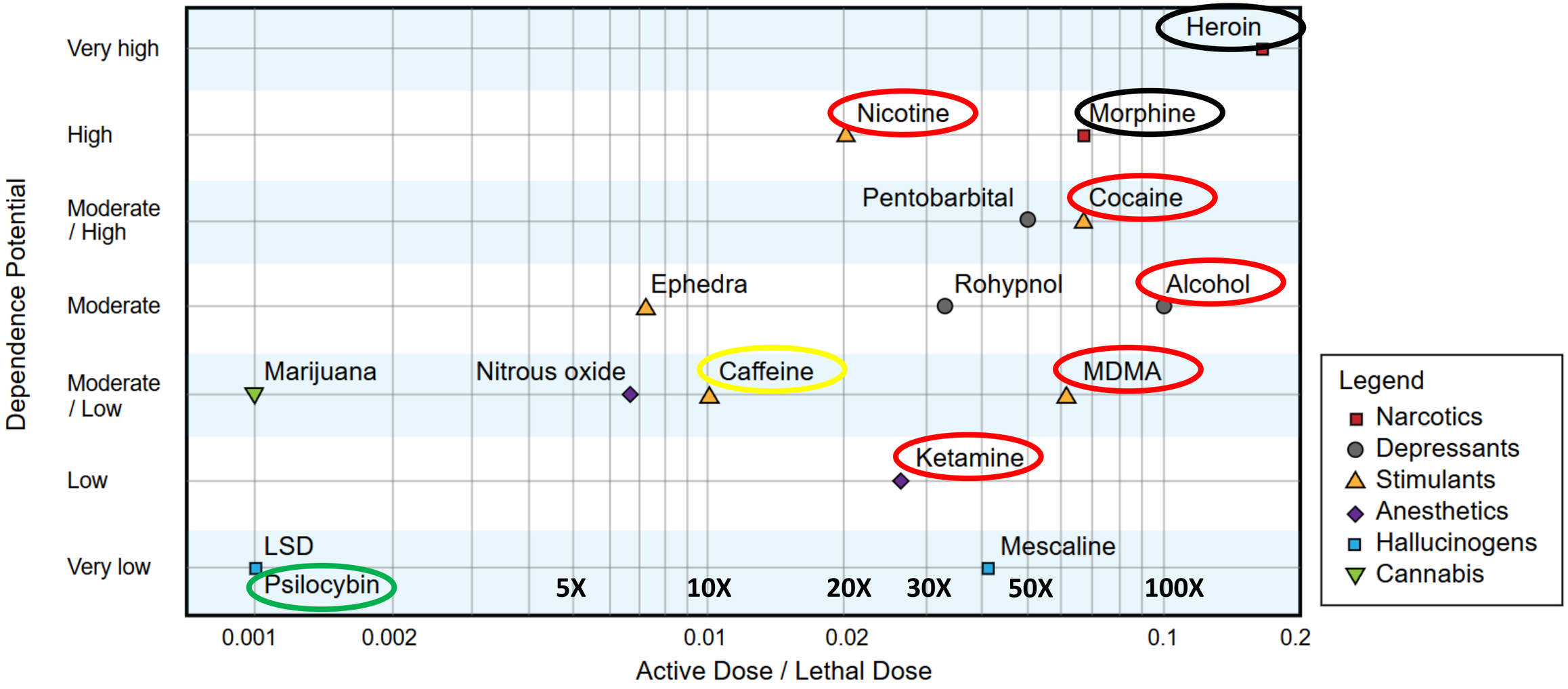


Major shareholders (at 12 May 2025)	
Dr. William James Garner *(TYP co-founder)*	14.3%
Citicorp Nominees P/L	6.4%
Dr. Daniel Tillett *(TYP NED)*	4.3%
Mr. Jason Carroll *(TYP CEO)*	3.6%
Mr. Herwig Janssen *(TYP Chairman)*	2.4%
Top 5:	31.0%
Top 10:	41.3%
Top 20:	51.7%
Top 100:	81.2%

*** Cash balance 31 March 2025 excludes expected R&D Tax Rebate Incentive [AU$1.0M]**

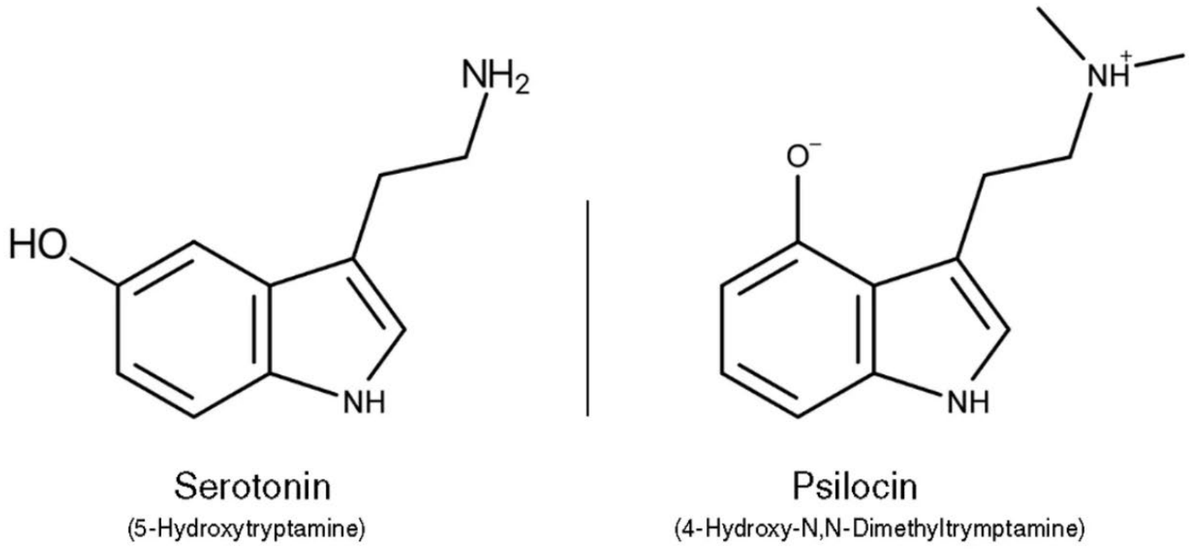
Dispelling myths regarding pharmaceutical safety of Psilocybin

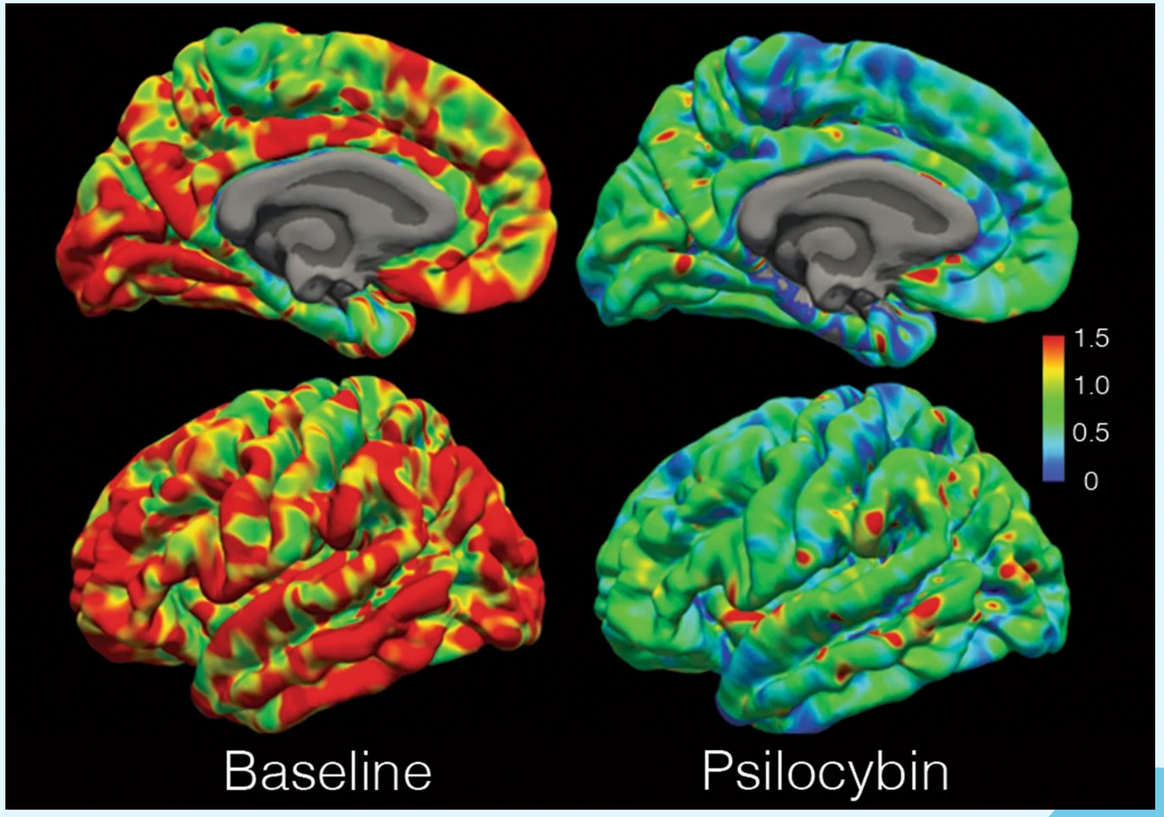
TRYPTAMINE THERAPEUTICS



Gable, R. S. (2006). Acute toxicity of drugs versus regulatory status. In J. M. Fish (Ed.),Drugs and Society: U.S. Public Policy, pp.149-162

Unparalleled ability of psilocin to target serotonin $5\text{-}HT_{2A}$ receptors





Psilocin molecules activate the serotonin $5HT_{2A}$ receptor due to structural similarity between psilocin & serotonin.

Psilocin occupancy of $5\text{-}HT_{2A}$ Receptors

Madsen, M.K., Fisher, P.M., Burmester, D. *et al.* Psychedelic effects of psilocybin correlate with serotonin 2A receptor occupancy and plasma psilocin levels. *Neuropsychopharmacol.* 44, 1328–1334 (2019). https://doi.org/10.1038/s41386-019-0324-9

The clinical potential of Psilocybin treatment is actually real:

Significant improvement in symptoms within 1 – 7 days is typical

Durability of clinical response of 6 months from one treatment

Treatment Resistant Depression [TRD]
Major Depressive Disorder [MDD]
Post-partum Depression
Post-Traumatic Stress Disorder [PTSD]
Obsessive Compulsive Disorder [OCD]
Depression in Bipolar-2 Disorder
Generalised Anxiety Disorder [GAD]
Body Dysmorphic Disorder [BDD]
Anorexia Nervosa
Binge Eating Disorder [BED]
Fibromyalgia Syndrome [FMS]
Irritable Bowel Syndrome [IBS]

Phantom Limb Pain
Migraine
Cluster Headache
Concussion/Traumatic Brain Injury [TBI]
Methamphetamine Use Disorder
Cocaine Use Disorder
Alcohol Use Disorder
Gambling Addiction
Smoking Cessation/Nicotine Addiction
Demoralisation
Cancer-related mood & anxiety disorders
Parkinson's Disease

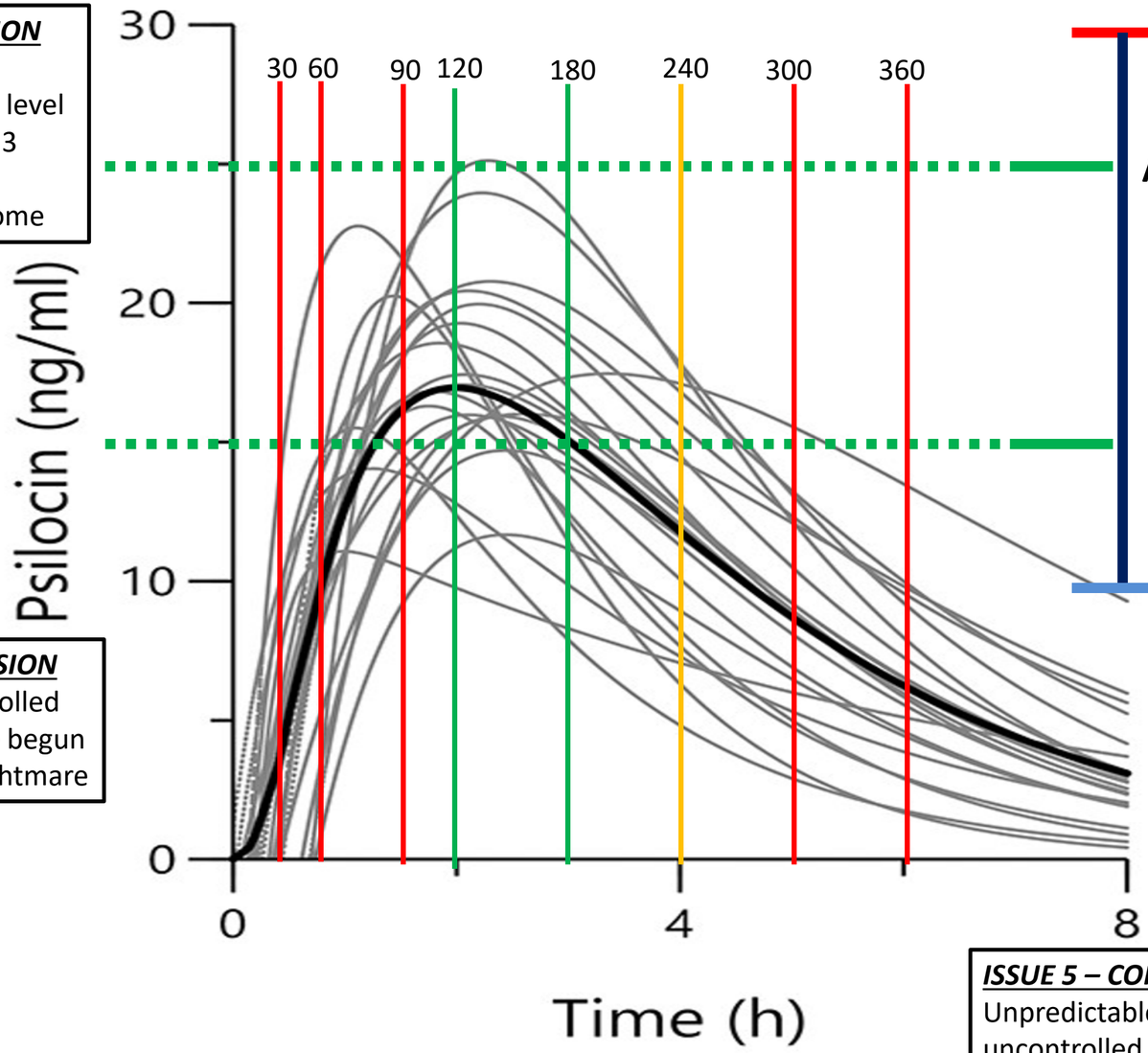
But how does one harness the clear clinical potential of Psilocybin without the "life-changing" anecdotes & obligatory visit to a retreat in South America?

Psilocybin has significant obstacles to reach mainstream Psychiatry

TRYPTAMINE THERAPEUTICS

ISSUE 3 - IMPRECISION
Time to reach a therapeutic psilocin level in any patient is 1 – 3 hours with highly unpredictable outcome

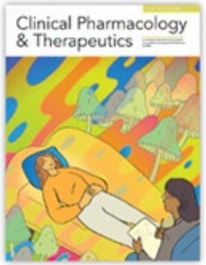
Blood level of Psilocin after taking a standard 25mg capsule of Psilocybin



ISSUE 2 – SIDE EFFECTS
Attempts to dose escalate to lift patients into an ideal therapeutic zone simply leads to significantly increased adverse events

ISSUE 1 - EFFICACY
30% of patients metabolising psilocybin to psilocin fail to reach therapeutic levels

ISSUE 4 - APPREHENSION
Treatment is uncontrolled and irreversible once begun - it's a physician's nightmare



Volume 113, Issue
April 2023
Pages 747-751

ISSUE 5 – COMMERCIAL MODEL
Unpredictable efficacy and uncontrolled dosing provides limited time within the therapeutic zone and extends treatment for each patient to 8+ hours

Adapted from : Clin Pharma and Therapeutics, Volume: 113, Issue: 4, Pages: 822-831, First published: 12 December 2022, DOI: (10.1002/cpt.2821)

Design the approach to remove the barriers to therapy

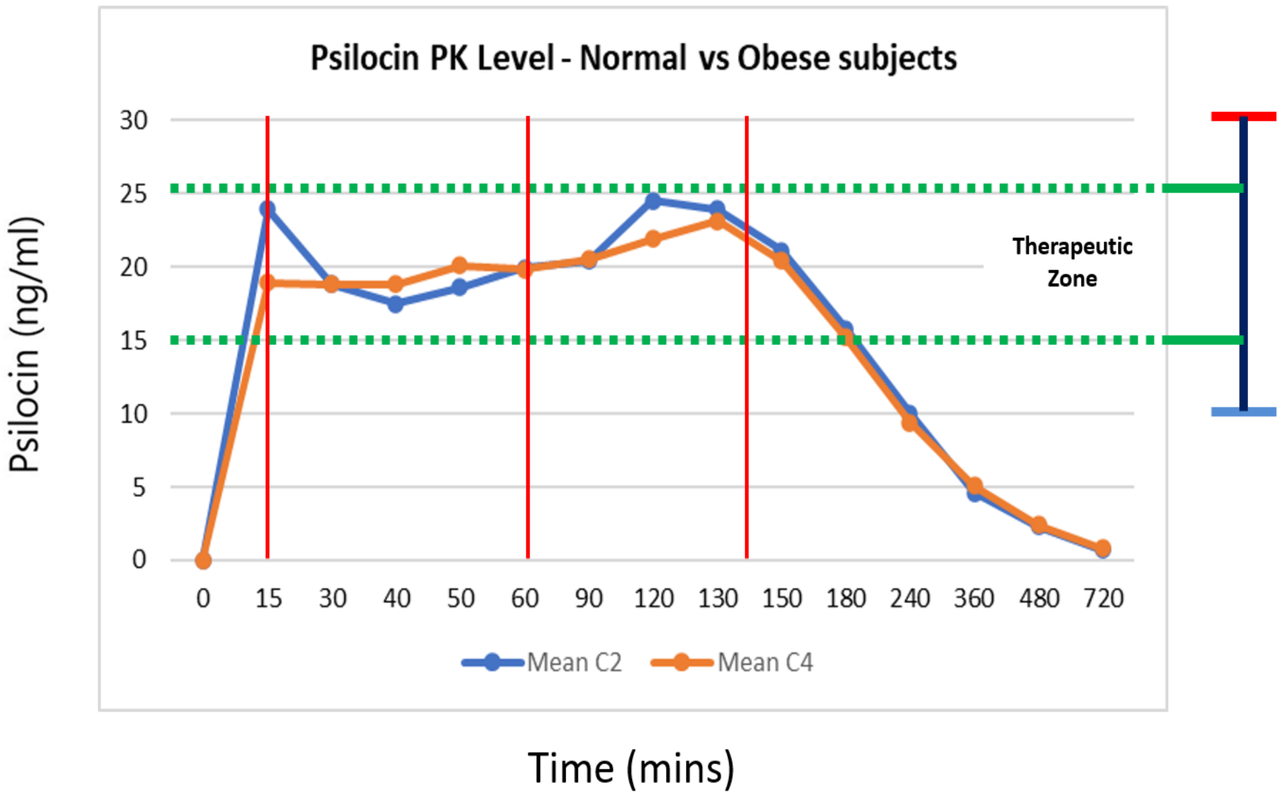
TRP-8803 : A Precision approach in Neuropsychiatry

	IV-infused Psilocin	Oral Psilocybin *
Short treatment duration of 1-2 hours	✓	✗ ~8-10 hours
Quick onset of psychedelic state (~15 minutes)	✓	✗ 1-2 hours
Precision targeting of drug blood levels in patients	✓	✗ highly variable
Patient safety - quickly reversible in emergency	✓	✗
Strong IP positioning	✓	✗
Commercially scalable	✓	?

* Companies developing oral psilocybin include: Compass Pathways, Cybin, USONA amongst many others

Results Phase I TRP-8803 Clinical Safety & Dose Ranging Study

TRP-8803 achieves consistent blood levels within a target therapeutic zone across diverse cohorts



- Established Safety of TRP-8803 IV-infusion
- Confirmed achievement of target blood levels of psilocin within the Therapeutic Zone
- Confirmed reversibility of TRP-8803
- Achieved desired PK profile that improves adverse event profile
- Achieved dosing intensity of 9-10 within 15 minutes across target therapeutic dose cohorts
- Eliminates the need for weight-based dosing and removes significant interpatient variability
- Established doses and infusion rates to be utilised in upcoming patient studies

Global Intellectual Property Portfolio

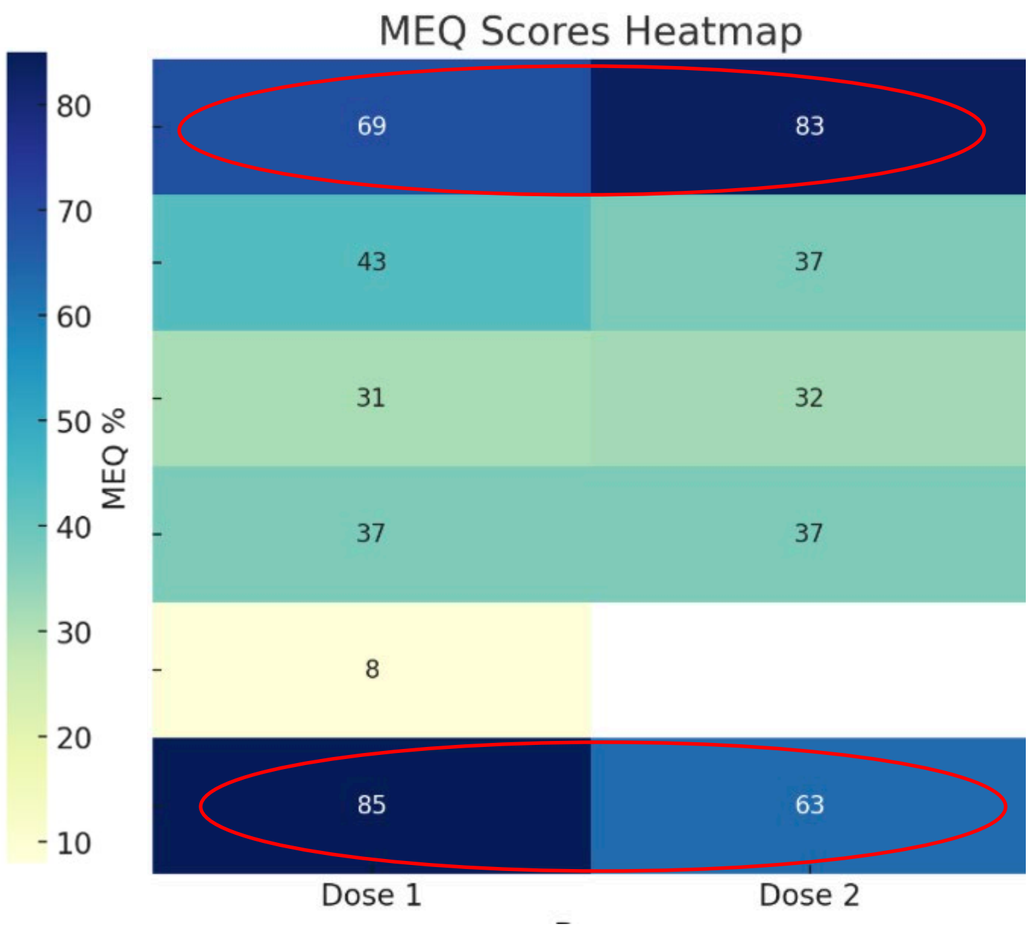
Patent applications and trade secrets based on novel methods for manufacturing, formulation, dosing and treatment of specific disease indications have been filed for all major global pharmaceutical markets

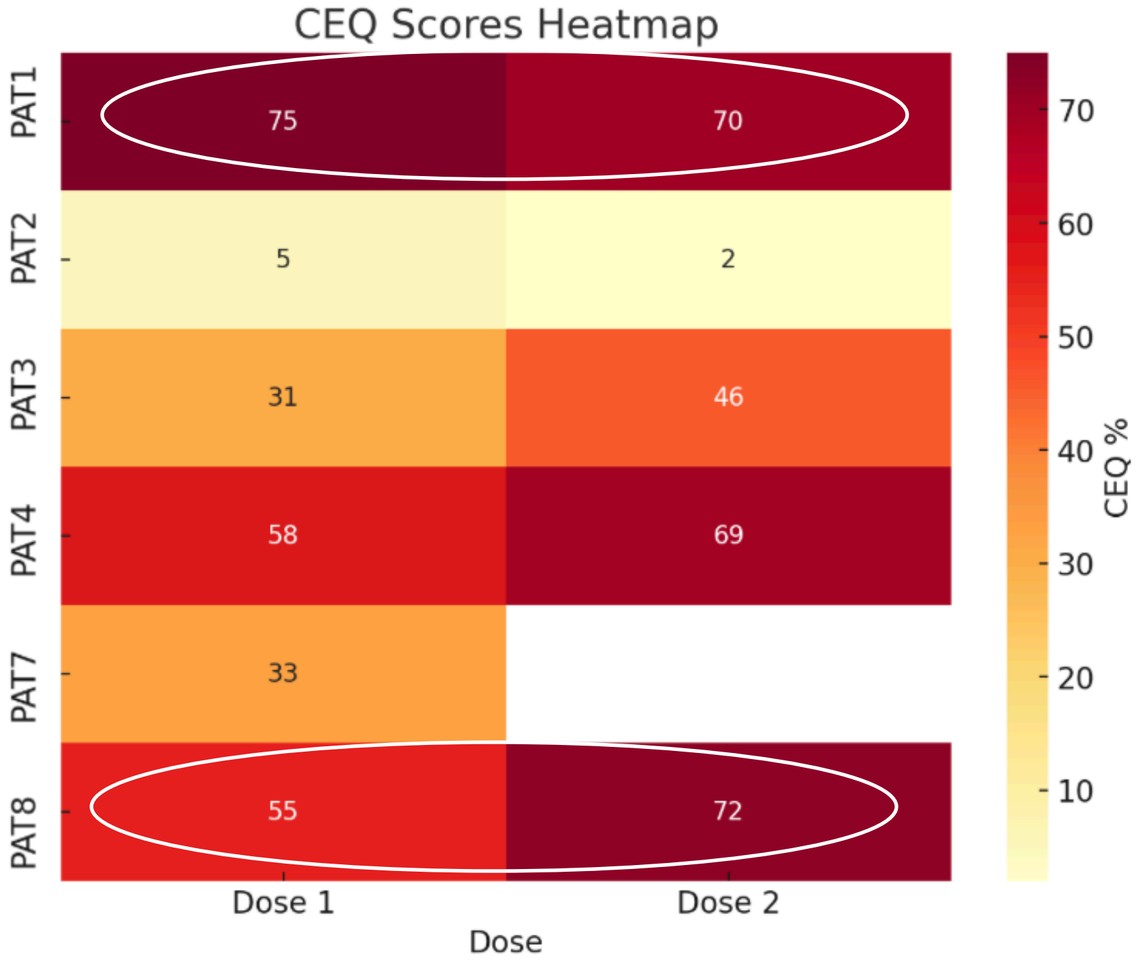
- Provisional patent filed in March 2021 (US 63/161,070) covering TRP-8803 (IV-infused Psilocin); converted to PCT filing March 2022; published September 22, 2022
- Provisional patent application covering the use of psilocybin and derivatives in the treatment of Binge Eating Disorder (BED) filed June 2022
- Provisional patent application for the treatment of fibromyalgia filed September 2022
- Provisional patent application for salt & co-formers of TRP-8803 filed September 2022
- Provisional patent for IBS filed January 2, 2023
- New patent family filing currently underway (measurement)

Allens › ‹ Linklaters

Interpatient variability with oral psilocybin dosing in practice
TYP – Phase 2a IBS study with MGH/Harvard (TRP-8802)

MASSACHUSETTS GENERAL HOSPITAL
CENTER FOR THE NEUROSCIENCE OF PSYCHEDELICS

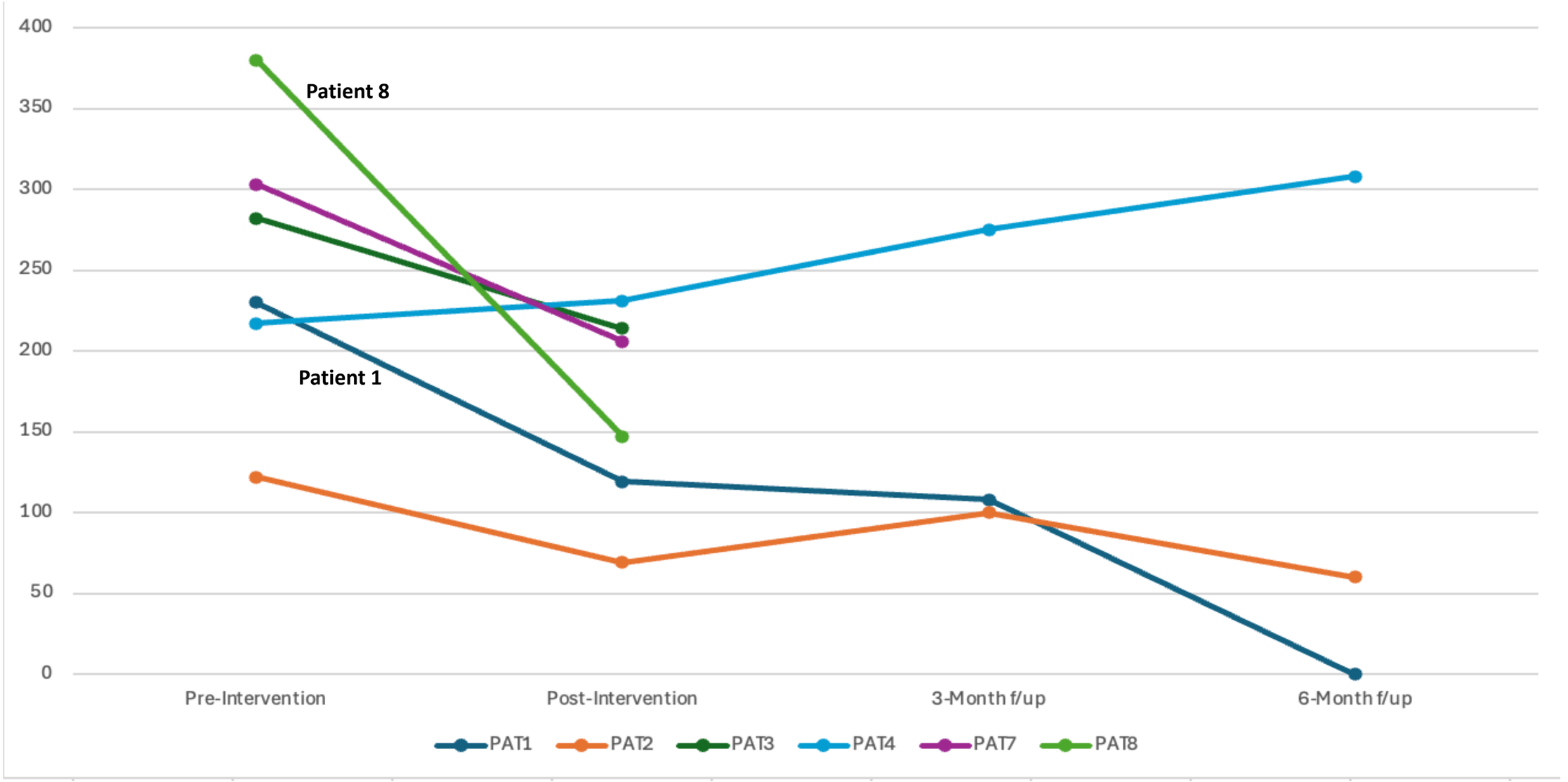




Source: Dr. Erin Mauney & Dr. Franklin King as presented at Psychedelic Science 2025, Denver, CO, USA, 20 June 2025

IBS all-symptom improvement in 5 of 6 patients after dosing (83%)
Largest improvement apparent in patients with highest intensity (at same dose)
Treatment Durability may extend past 6 months

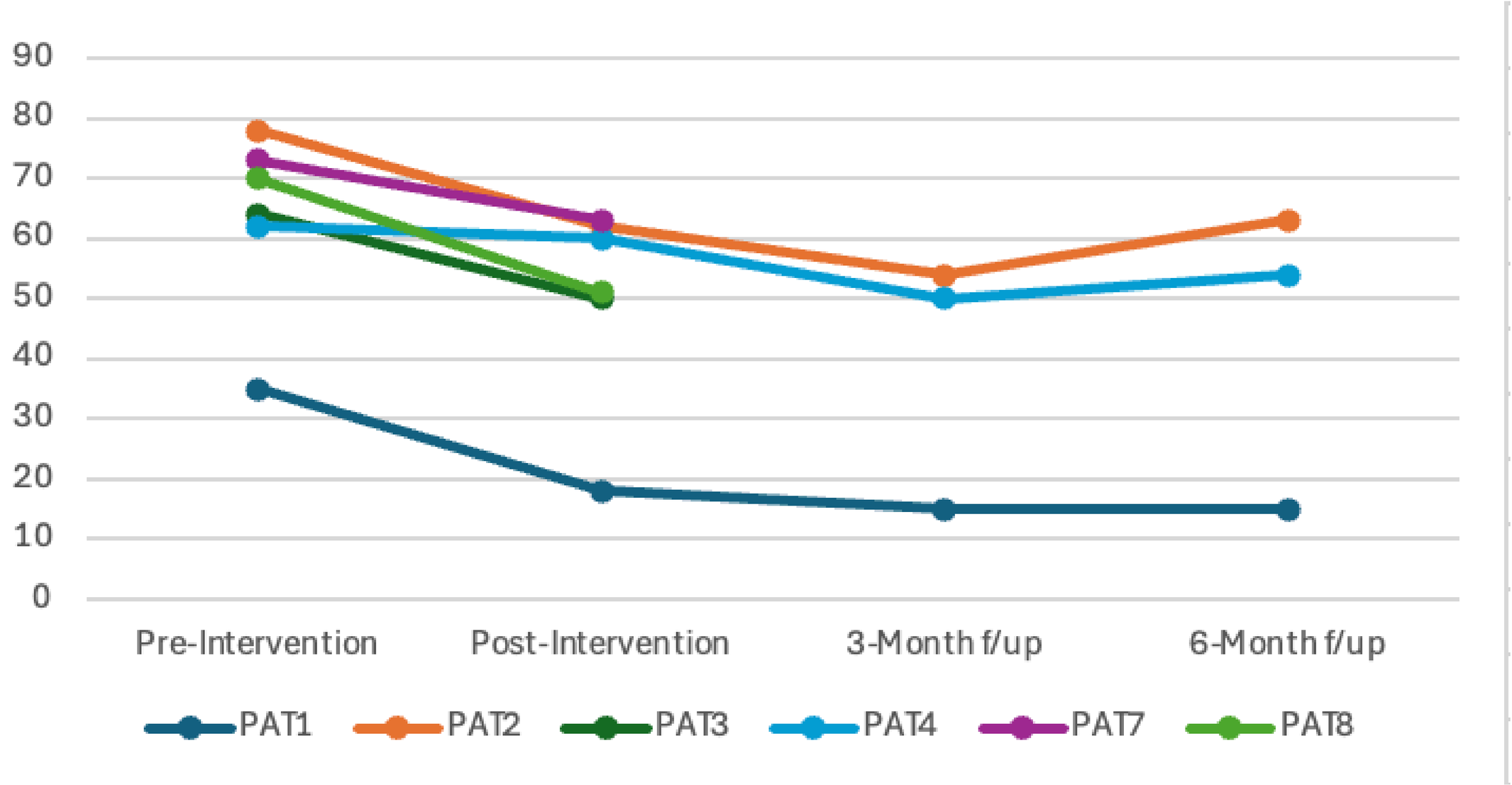
MASSACHUSETTS GENERAL HOSPITAL
CENTER FOR THE NEUROSCIENCE OF PSYCHEDELICS



Source: Dr. Erin Mauney & Dr. Franklin King as presented at Psychedelic Science 2025, Denver, CO, USA, 20 June 2025

Visceral sensitivity (IBS Pain) improvement seen for all patients after dosing

MASSACHUSETTS GENERAL HOSPITAL
CENTER FOR THE NEUROSCIENCE OF PSYCHEDELICS



Source: Dr. Erin Mauney & Dr. Franklin King as presented at Psychedelic Science 2025, Denver, CO, USA, 20 June 2025

TYP – Binge Eating Disorder study with University of Florida: TRP 8802

Recurring episodes of eating large quantities of food and a loss of control over eating

25-50% of obese patients who seek weight-loss treatment suffer from problems with Binge Eating[1]

Limited treatments available for Binge Eating Disorder

Patients suffering from BED have multiple co-morbidities[2]:
- 94% have lifetime Psychiatric disorders
- 70% Mood disorders
- 59% Depression
- 32% PTSD
- 23% of BED sufferers have attempted suicide

"We are very excited for the potential of TRYP's treatment. The potential impact on patients' lives is that it would be life changing for them."

Jennifer Miller, MD, Professor, University of Florida, Principal Investigator

"These results from a single dose of psilocybin combined with therapy are clinically meaningful and highly promising. The magnitude of changes for most participants in binge eating, anxiety, and depression are dramatic.."

Jessie Dallery, Ph.D. Professor, University of Florida, Lead Psychologist

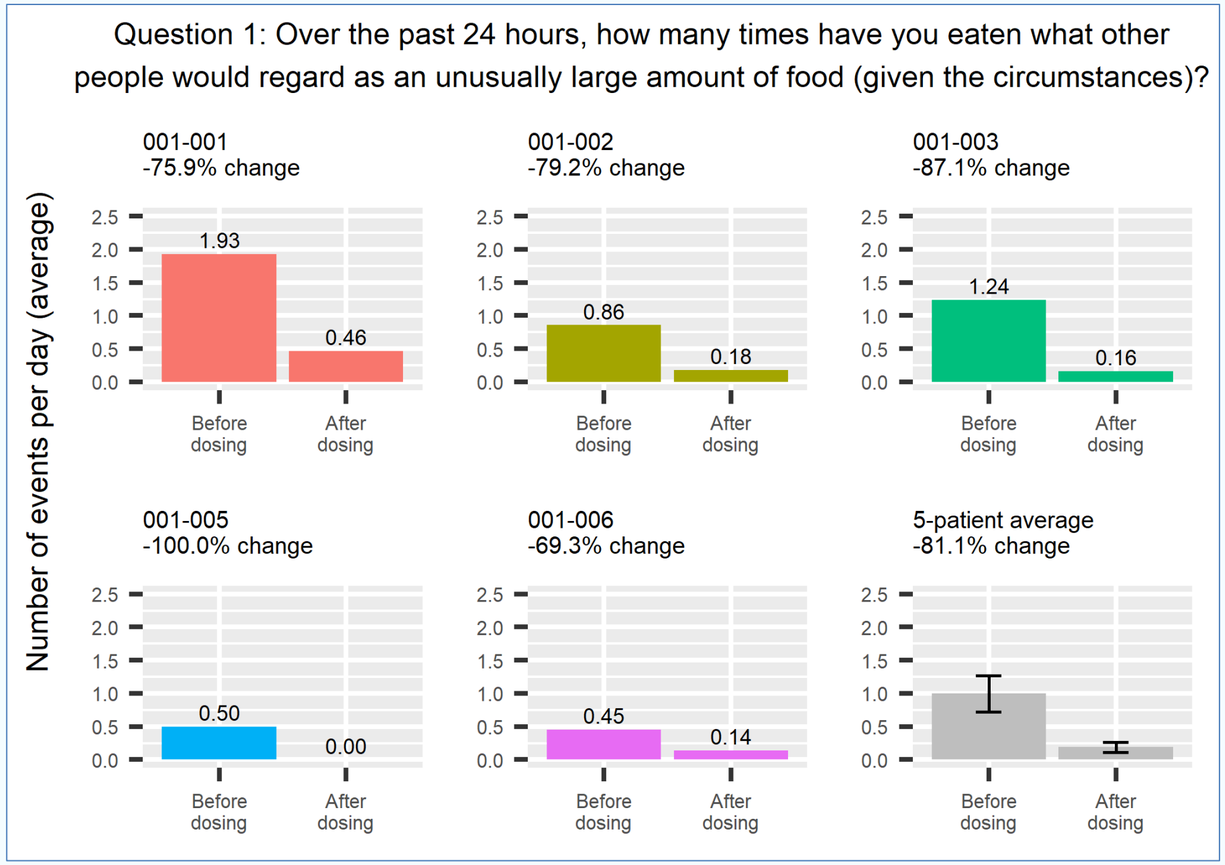
PRODUCT	NO. OF PATIENTS	COLLABORATOR	DESIGN	DATA READ OUT	NEXT STEPS
TRP-8802	6	UF UNIVERSITY of FLORIDA	Open label with psychotherapy	Data announced Q1 2023	Scientific paper publication

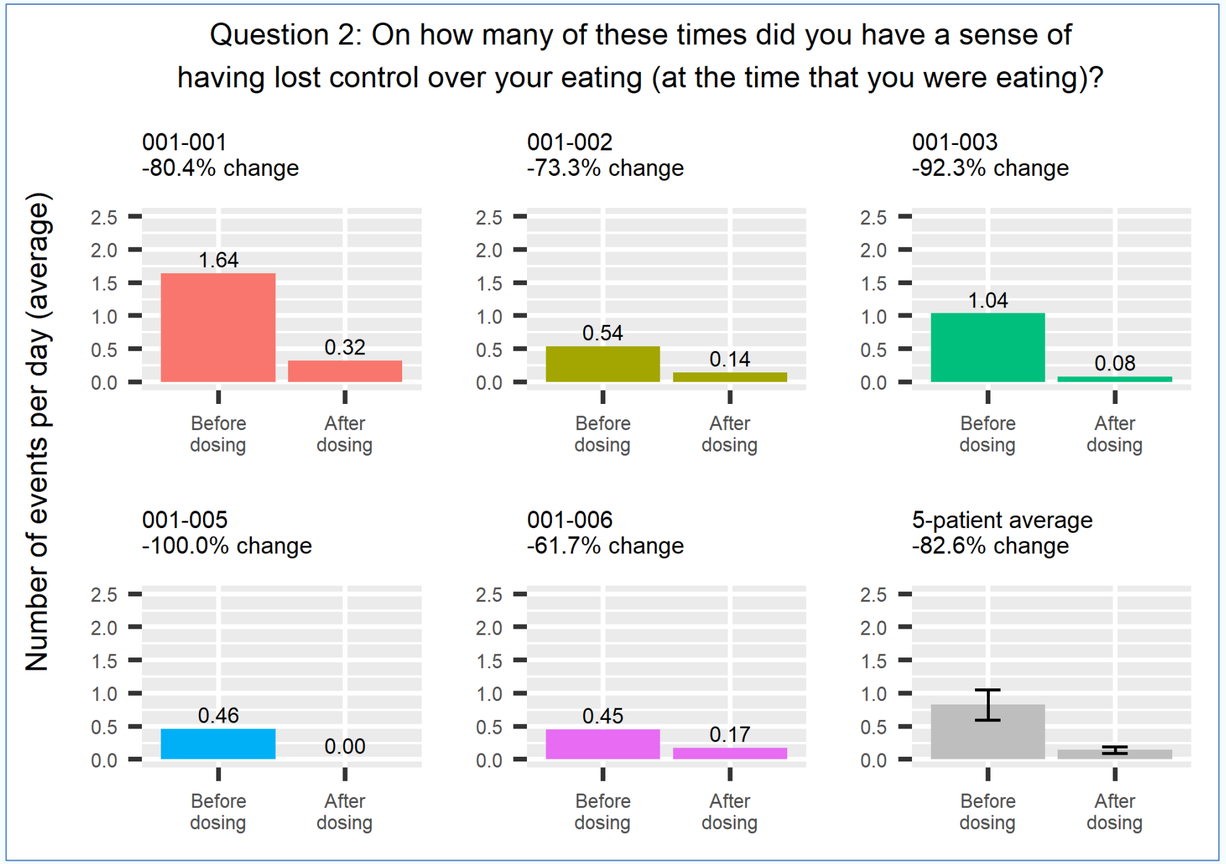
Positive interim data announced in January 2023, including mean reduction >80% for Binge Eating Score confirmed as viable target for future studies using TRP-8803

1. *Bruce et.al.; Journal of the ADA,* Volume 96, Issue 1, Jan 1996, PP 58-61, *Binge Eating Among the Overweight Population: A Serious and Prevalent Problem*
2. *Keski-Rahkonen: Current Opinion in Psychiatry* 34(6):p 525-531, November 2021. *Epidemiology of Binge Eating Disorder: prevalence, course, comorbidity & risk factors*

TYP – Phase 2a BED study with University of Florida (TRP-8802)

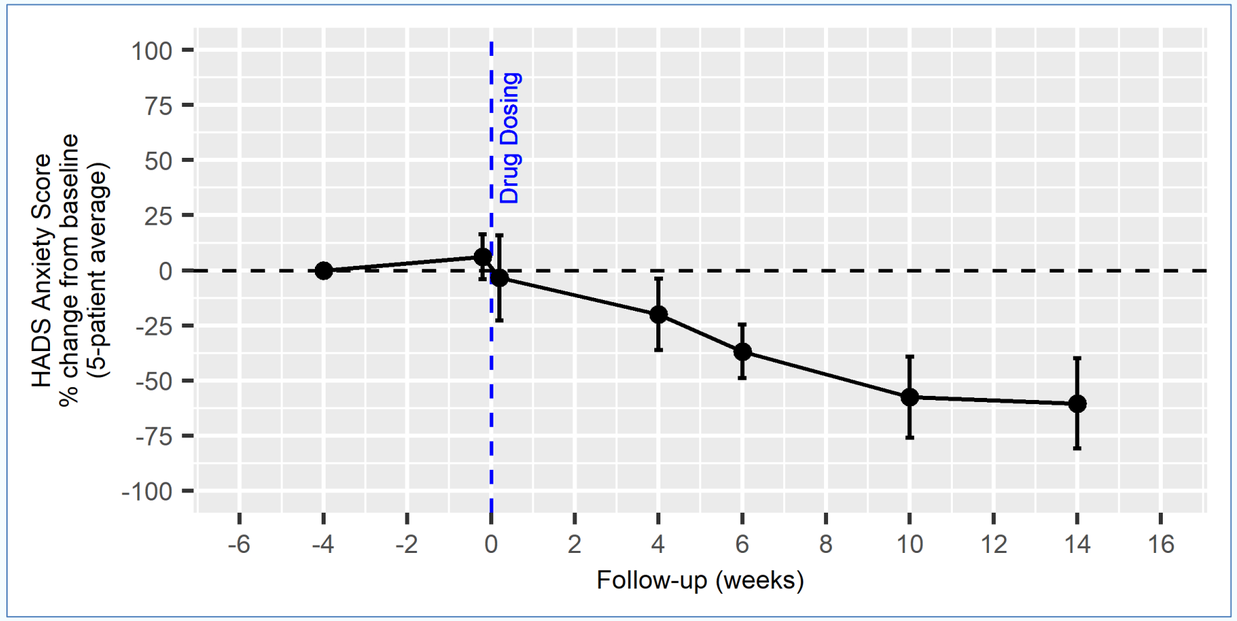
Significant reduction in frequency & extent of binge eating for all patients 4 weeks post-treatment



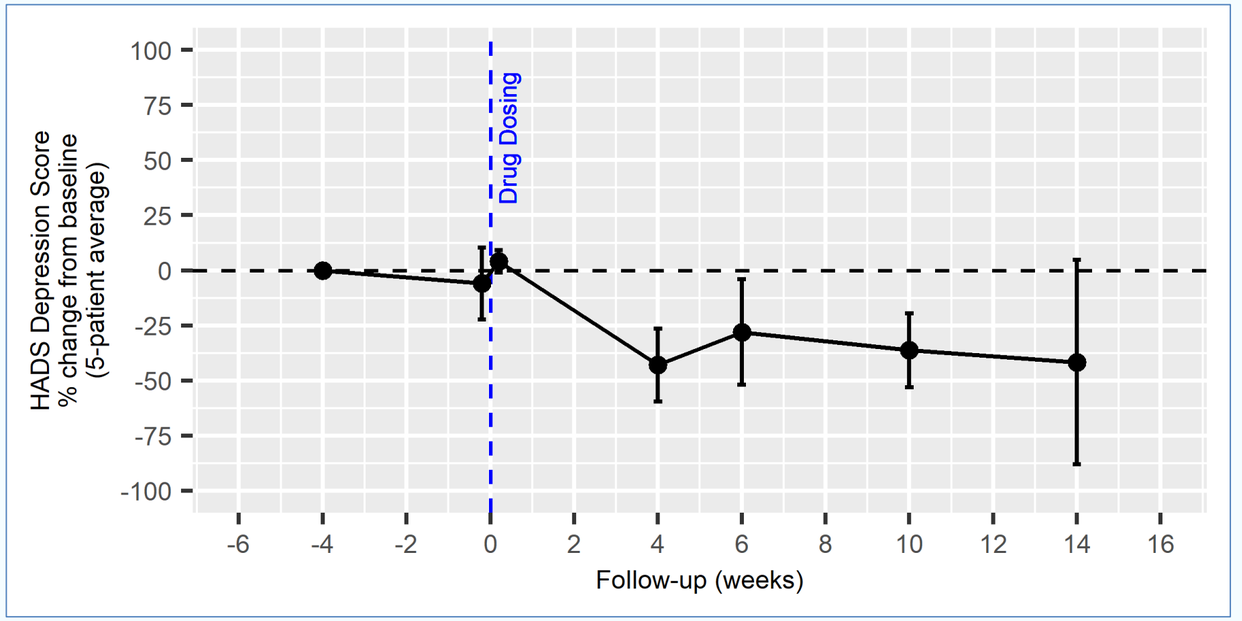


TYP – Phase 2a BED study with University of Florida (TRP-8802)

Significant reduction in Hospital Anxiety & Depression Scores (HADS) over 14 weeks after one treatment (Oral Psilocybin 25mg)



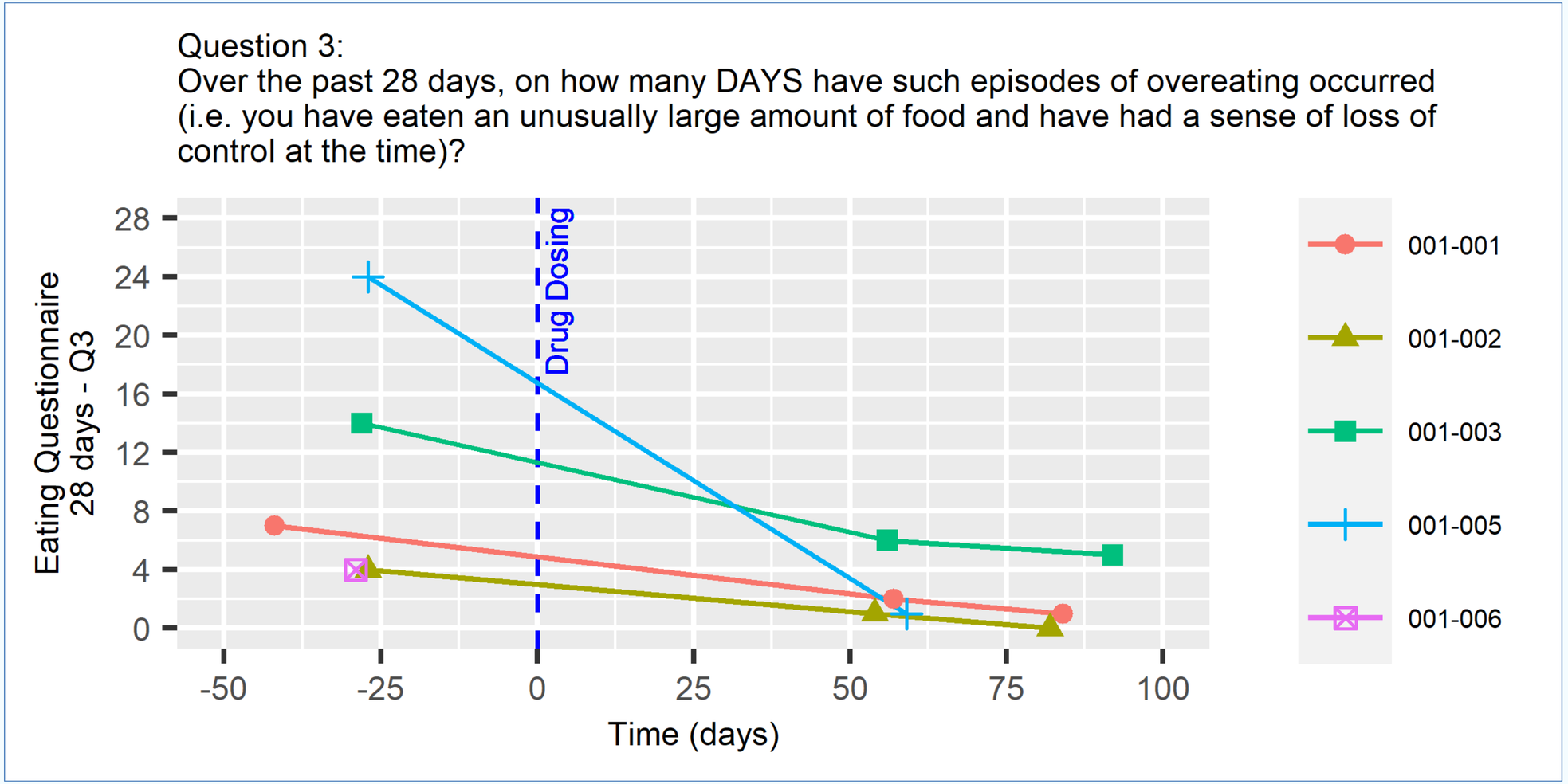
HADS Anxiety Score



HADS Depression Score

TYP – Phase 2a BED study with University of Florida (TRP-8802)

Durable efficacy over 14 weeks post-treatment after single dose (Oral psilocybin 25mg)



TYP – Phase 2a BED study with University of Michigan (TRP-8802)

TRYPTAMINE THERAPEUTICS

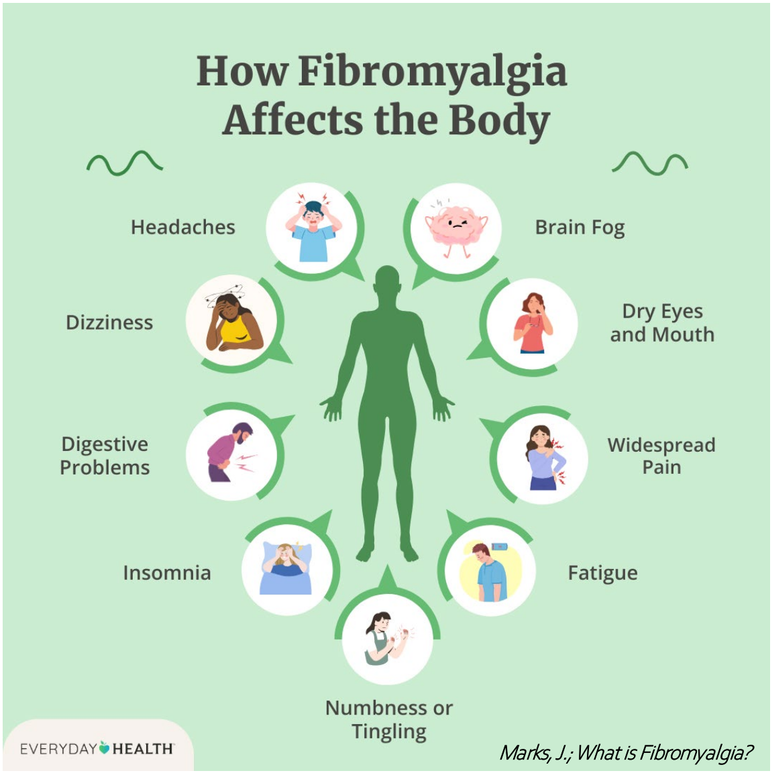
FMS characterized by widespread musculoskeletal pain, profound fatigue, sleep disturbances, and numerous other symptoms[1]

Symptoms of fibromyalgia often begin after physical or emotional trauma, such as an illness, surgery, infection, life event or injury[2]

While fibromyalgia pain feels like it's coming from a specific area of your body, it's actually originating in your brain, specifically from the nervous system[2]

Many drugs have a limited effect on Fibromyalgia Pain[1]

Co-morbidities include depression and health-related anxiety, sleep disturbances and increased suicide risk[2]



Marks, J.; What is Fibromyalgia?

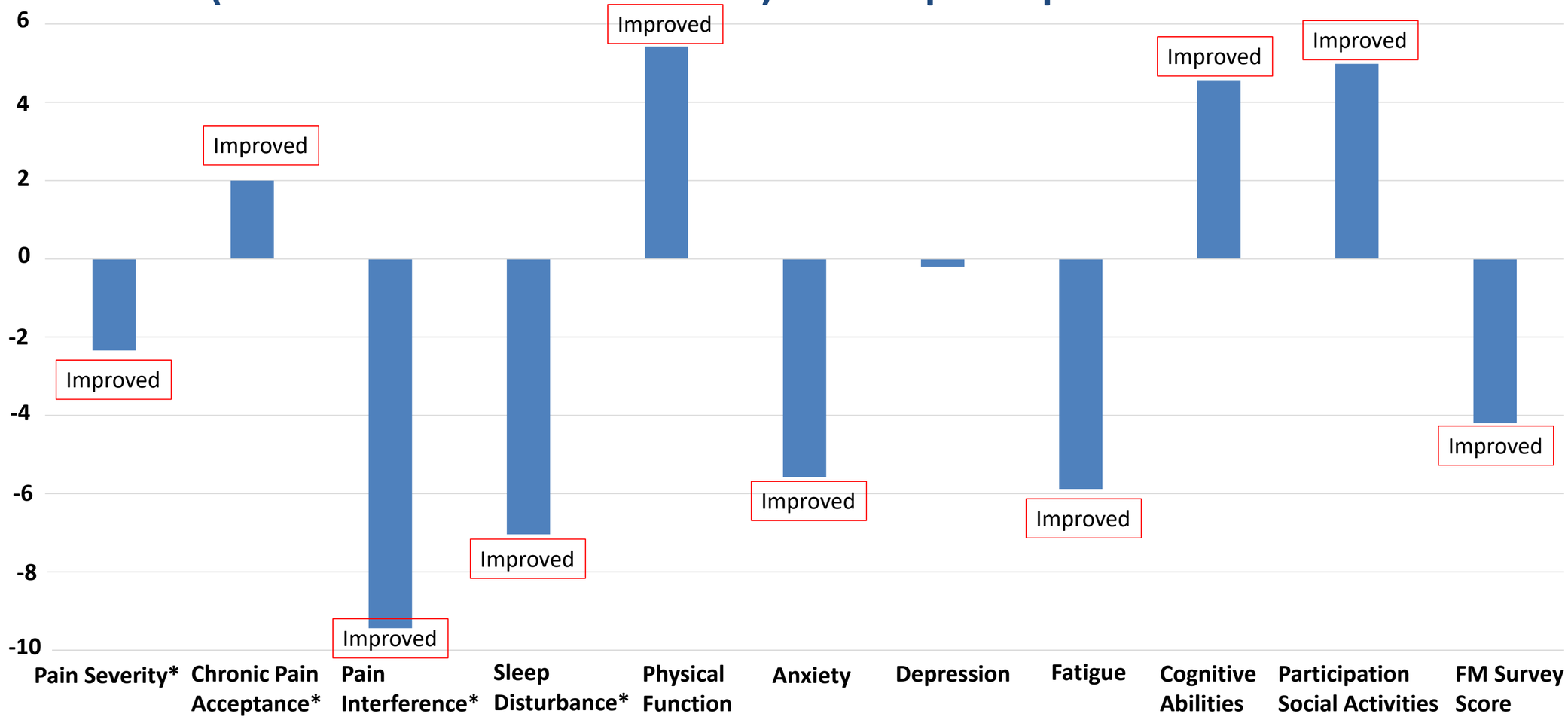
PRODUCT	NO. OF PATIENTS	COLLABORATOR	DESIGN	DATA READ OUT	NEXT STEPS
TRP-8802	5	UNIVERSITY OF MICHIGAN	Open label with psychotherapy	Initial Data Available	Full Clinical Study Data Release & 3 month follow up

First patient dosed in December 2023 with Data presented August 2024

1. *Giorgi et.al.; Current Pain & Headache Reports; 23 July 2024; Pharmacological Treatment of Fibromyalgia Syndrome: A Practice-Based Review*
2. *Marks, J.; What is Fibromyalgia? Symptoms, Causes, Diagnosis, Treatment & Prevention; Everydayhealth.com/fibromyalgia/guide; Dec 15 2022*

Change in Fibromyalgia symptoms after psilocybin assisted therapy

(Baseline vs. end of treatment) for n=5 participants



For T-scores, **changes of 2-6 points are considered a meaningful change**. For **pain severity, a 2-point difference is considered clinically significant**.
https://www.healthmeasures.net/score-and-interpret/interpret-scores/promis/meaningful-change

*Indicates secondary Outcome. CPAQ: Chronic Pain Acceptance Questionnaire. Pain Severity reported as change in aggregate pain score from the 7 days prior to the intervention to the end of the intervention. Sleep disturbance, pain interference, physical function, anxiety, depression, fatigue, participation in social activities, and cognitive abilities are all reported as T-scores per PROMIS scoring. Negative change scores indicate improvement for pain severity, pain interference, sleep disturbance, FM score, anxiety, depression, and fatigue. Positive change scores indicate improvement for CPAQ, physical function, participation in social activities, and cognitive abilities.

Multiple Near-Term Milestones and Catalysts*

TRYPTAMINE THERAPEUTICS

Catalyst	Timeframe	Status
Completion of Tryp Therapeutics Inc. acquisition	H1 2024	✔
$6.5m capital raise	H1 2024	✔
Recommencement of trading on ASX	H1 2024	✔
Appointments to strengthen Scientific Advisory Board	H1 2024	✔
Start of TRP-8803 Phase 1 trial (Australia)	H1 2024	✔
TRP-8802 Fibromyalgia Phase 2a patient enrolment (in collaboration with University of Michigan)	H1 2024	✔
TRP-8802 Irritable Bowel Syndrome (IBS) Phase 2a trial commencement (alongside Harvard University)	H2 2024	✔
Completion of TRP-8803 Phase 1 trial (Australia) and interim results	H2 2024	✔
TRP-8802 Fibromyalgia Phase 2a interim data	H1 2025	✔
TRP-8802 IBS Phase 2a interim data	***H2 2024*** ~~H1 2025~~	✔
TRP-8802 Fibromyalgia Phase 2a final data	~~H1 2025~~	H2 2025
TRP-8803 Phase 2 trial authorisations	H1 2025	
TRP-8803 Phase 2 trial eating disorder trial commencement (Australia)	H1 2025	
TRP-8802 IBS Phase 2a final data	H2 2025	
Commencement of additional TRP-8803 clinical study (TBA) (Australia)	H2 2025	

*The timetable is indicative only and is subject to change (Calendar year is used)

Contact

Jason Carroll
Chief Executive Officer
jcarroll@tryptherapeutics.com

Henry Jordan
Six Degrees Investor Relations
henry.jordan@sdir.com.au

Website:
www.tryptherapeutics.com

Socials:
X (Twitter) @tryptherapeutic