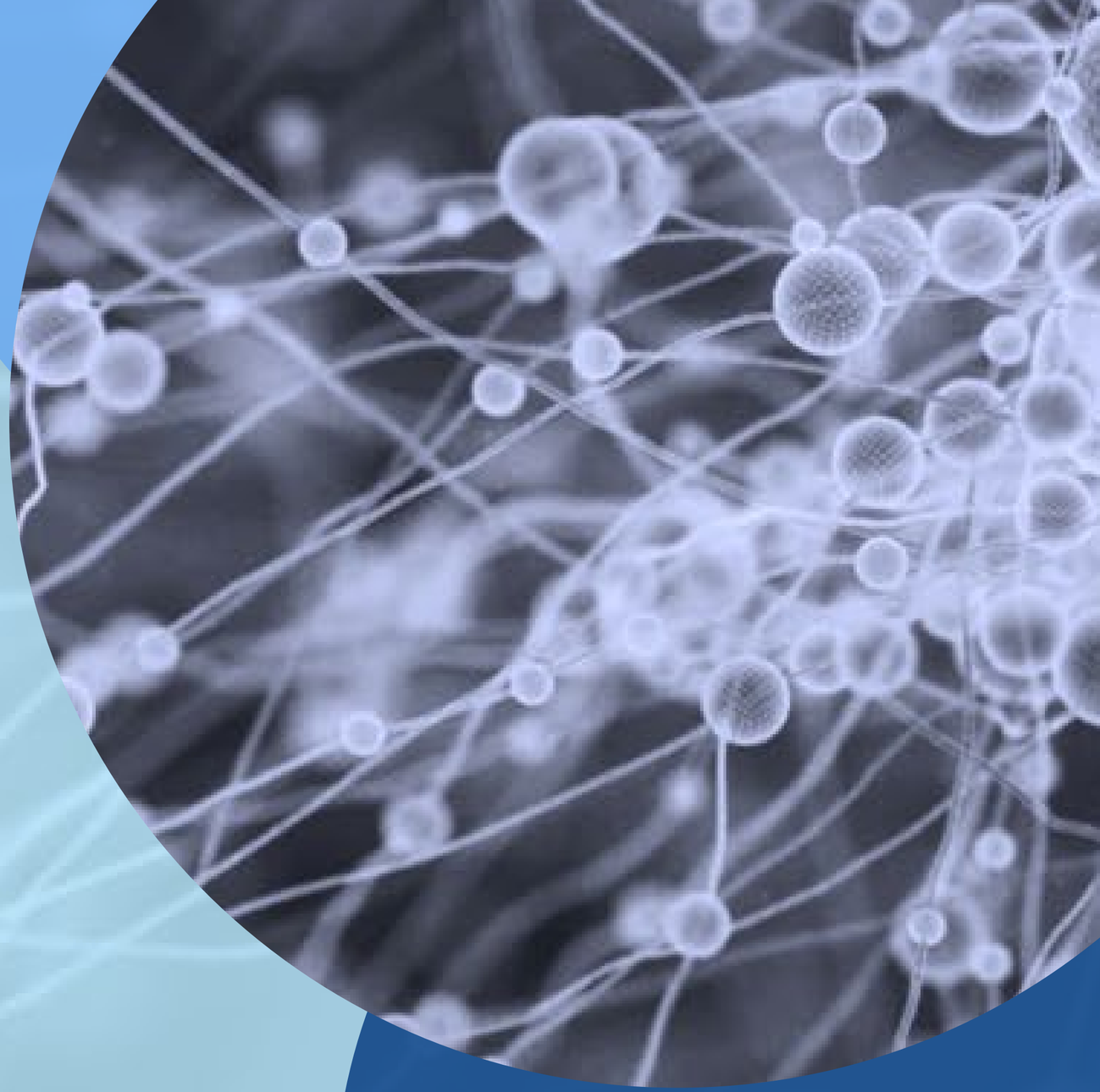
TRYPTAMINE THERAPEUTICS



Precision Psychedelic Therapy

30 July 2024

ASX : TYP

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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

A Precision Approach to Psychedelic Medicine

With a focus on solving:

EATING DISORDERS & CHRONIC PAIN

Tryp is a clinical stage drug development company developing an innovative and scalable IV-infused psilocin solution which can be used in conjunction with psychotherapy to address unmet medical needs

Infusion refers to the continuous administration of the drug via the intravenous route and provides a clinician with control over the administration of the solution

Investment Highlights

Pioneering a precision approach to psychedelics, **targeting precise drug blood levels in patients**

Transformative and commercially scalable intellectual property (IV-Infused Psilocin)

- Addresses the critical limitations of oral dosing of psilocybin
- Platform has broad applicability and out-licensing potential
- Multiple near term value creating catalysts

Positioned to take advantage of recent positive changes to TGA regulations in Australia

First mover advantage and IP protection for indications targeted

Multiple clinical trials ongoing:

- Positive Phase 2 efficacy data announced for Binge Eating Disorder (80% reduction in episodes) with oral psilocybin (TRP8802) at University of Florida
- Patient Dosing completed in Phase 2 clinical trial with University of Michigan in Fibromyalgia (oral psilocybin)
- UofM researchers to present efficacy data at the International Association for the Study of Pain Conference from 5 – 9 August in the Netherlands
- Massachusetts General Hospital (Harvard University) have enrolled patients for Phase 2 IBS study – with first dosing expected in July (oral psilocybin)
- First cohort (3 participants) has been dosed with IV-psilocin through 140 minute IV-infusion (CMAX, Adelaide) : Second cohort (mid-dose) to begin during July
- Preparation for first “active patient” clinical study in Australia for IV-infused psilocin (BED) underway

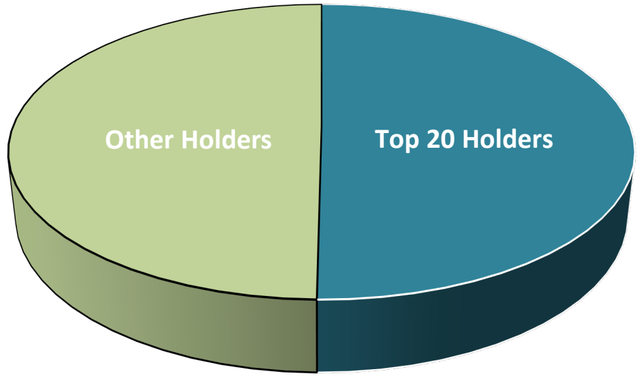
Experienced management team with proven biotech and drug approval success

World-class scientific advisory board chaired by renowned expert, Robin Carhart-Harris

Corporate overview

Snapshot:	
ASX code:	TYP
Shares on issue:	1.089Bn
Market capitalisation: (at $0.02 per share)	$21.8m
Cash at bank: (as at 30 June 2024)	$5.4m
Debt:	Nil

Board of Directors	
Non-Executive Chairman	Mr. Mark Davies
Chief Executive Officer	Mr. Jason Carroll
Chief Business Officer	Mr. Peter Molloy
Non-Executive Director	Mr. Chris Ntoumenopoulos
Non-Executive Director	Mr. Clarke Barlow
Non-Executive Director	Mr. Gage Jull



Major shareholders (at 29 July 2024)	
Dr. William James Garner	16.4%
Citicorp Nominees P/L	12.4%
Mr. Jason Carroll	3.2%
Computershare Investor Services	2.6%
Mr. Herwig Janssen	2.2%
Mr. Ludwig Criel	2.2%
Top 20:	51.0% (+1.3%)
Top 100:	84.4% (+4.3%)

World class team with proven Leadership

TRYPTAMINE THERAPEUTICS

JASON CARROLL
Chief Executive Officer

A seasoned and successful leader with over 30 years experience in healthcare sector

JIM GILLIGAN PhD
Chief Scientific Officer

Over 35 years experience in Biopharmaceutical industry

JIM O'NEILL
Chief Financial Officer

Over 30 years as a finance executive with public and private multi-national businesses

PETER MOLLOY
Chief Business Officer

Over 25 years as an entrepreneur, advisor and institutional investor in the healthcare sector

MICHAEL SILVERMAN MD
Chief Medical Officer

Over 30 years experience of clinical development in biotech sector

SCIENTIFIC ADVISORY BOARD

ROBIN CARHART-HARRIS PhD (CHAIR OF SAB)

Global expert on use of psychedelics for medical indications

UCSF Imperial College London

DAVID CASTLE MSc MD FRANZCP FRCPsych

Globally recognised expert on Body Dysmorphic Disorder, OCD Spectrum Disorders, Schizophrenia & Bipolar Disorder

UNIVERSITY of TASMANIA THE UNIVERSITY OF MELBOURNE

PHILLIPA HAY MD FRANZCP DPhilPsych

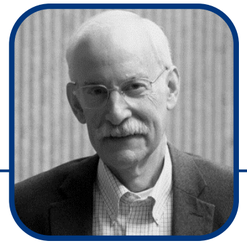
Globally recognised expert on Eating Disorders & Obesity with a focus on Anorexia Nervosa

WESTERN SYDNEY UNIVERSITY ANZAED National Eating Disorders Collaboration

DANIEL CLAUW MD

Globally recognized expert on fibromyalgia and nociplastic pain

UNIVERSITY OF MICHIGAN



WILLIAM SCHMIDT PhD

Expert in drug development for Pain indications

UCSF

JOEL CASTELLANOS MD

Leading chronic pain researcher and physician

UC San Diego

Robin Carhart-Harris' clinical work with Psilocybin

TRYPTAMINE THERAPEUTICS

The NEW ENGLAND JOURNAL of MEDICINE

SPECIALTIES TOPICS MULTIMEDIA CURRENT ISSUE LEARNING/CME AUTHOR CENTER PUBLICATIONS

ORIGINAL ARTICLE

Trial of Psilocybin versus Escitalopram for Depression

Authors: Robin Carhart-Harris, Ph.D., Bruna Giribaldi, B.Sc., Rosalind Watts, D.Clin.Psy., Michelle Baker-Jones, B.A., Ashleigh Murphy-Beiner, M.Sc., Roberta Murphy, M.D., Jonny Martell, M.D., Allan Blemings, M.Sc., David Erritzoe, M.D., and David J. Nutt, M.D. Author Info & Affiliations

Published April 14, 2021 | N Engl J Med 2021;384:1402-1411 | DOI: 10.1056/NEJMoa2032994 | VOL. 384 NO. 15

The NEW ENGLAND JOURNAL of MEDICINE

Psilocybin versus Escitalopram for Depression

PHASE 2, DOUBLE-BLIND, RANDOMIZED, CONTROLLED TRIAL

59 Adults with moderate-to-severe major depressive disorder	Psilocybin (two 25-mg doses 3 wk apart) + placebo (microcrystalline cellulose) N=30	Escitalopram (10 mg daily [3 wk], then 20 mg [3 wk]) + placebo (psilocybin, 1-mg doses 3 wk apart) N=29
Change in QIDS-SR-16 depressive symptom score at 6 wk (range, 0–27; higher score = greater depression)	−8.0±1.0	−6.0±1.0
	Difference, −2.0 points (95% CI, −5.0 to 0.9)	

Overall incidence of adverse events was similar in the two groups.

No significant difference between psilocybin and escitalopram in QIDS-SR-16 score change from baseline.

R. Carhart-Harris et al. 10.1056/NEJMoa2032994

frontiers in HUMAN NEUROSCIENCE

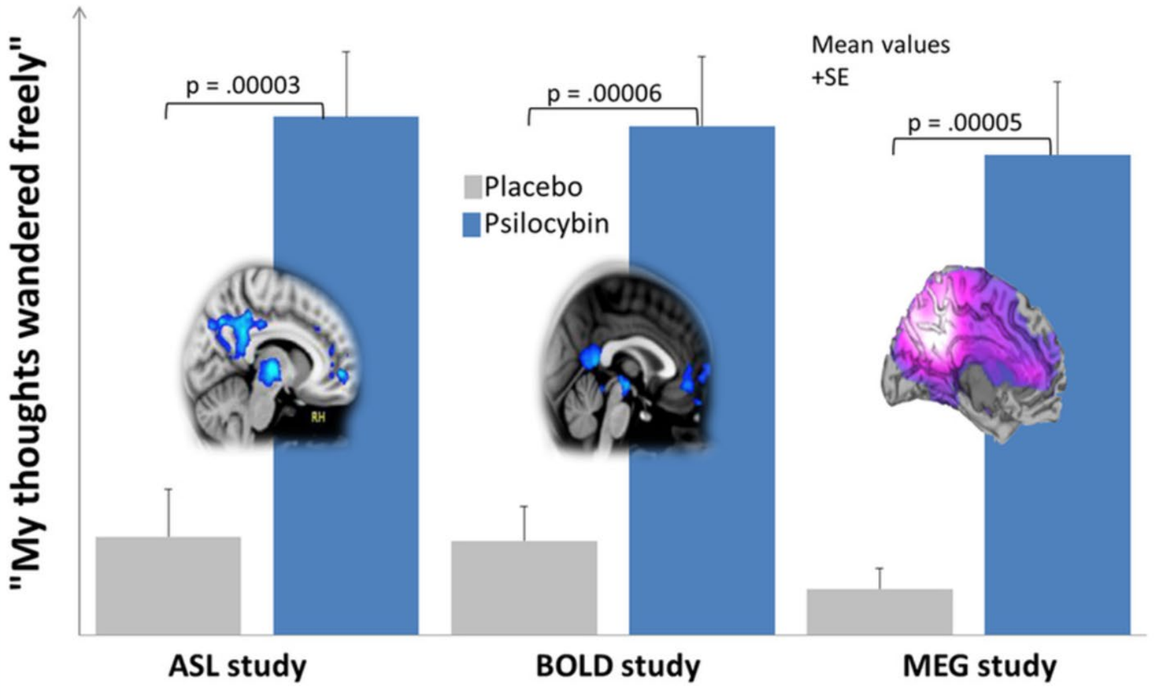
HYPOTHESIS AND THEORY ARTICLE
published: 03 February 2014
doi: 10.3389/fnhum.2014.00020

The entropic brain: a theory of conscious states informed by neuroimaging research with psychedelic drugs

Robin L. Carhart-Harris[1]*, Robert Leech[2], Peter J. Hellyer[2], Murray Shanahan[3], Amanda Feilding[4], Enzo Tagliazucchi[5], Dante R. Chialvo[6] and David Nutt[1]

[1] Division of Brain Sciences, Department of Medicine, Centre for Neuropsychopharmacology, Imperial College London, London, UK
[2] C3NL, Division of Brain Sciences, Department of Medicine, Imperial College London, London, UK
[3] Department of Computing, Imperial College London, London, UK
[4] The Beckley Foundation, Beckley Park, Oxford, UK
[5] Neurology Department and Brain Imaging Center, Goethe University, Frankfurt am Main, Germany
[6] Consejo Nacional de Investigaciones Científicas y Tecnológicas (CONICET), Buenos Aires, Argentina

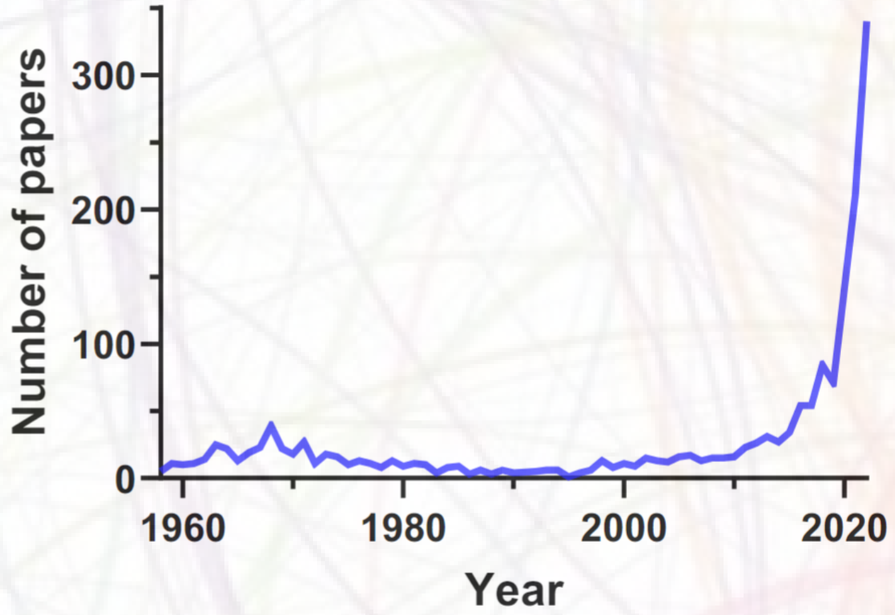
Psilocybin promotes an unconstrained style of cognition



Global interest **is** accelerating

Tryp is underpinned by exceptional sector tailwinds

- Research into the neuroplastic benefits of psilocybin is 8-fold higher today than any other time in clinical history
- There are 133 clinical trials underway using psilocybin – however almost all of these will not lead to an approvable dossier or expanded clinical use
- Tryp is focused on achieving the five core requirements for success:
    1. Selectiveness and time sensitivity
    2. Outcome focused data generation
    3. Proprietary protection at every level
    4. Pharmaceutical vs psychedelic expertise
    5. Stable, scalable commercial products
- Tryp is confident that its lead program, TRP-8803 is an outlier in the use of psychedelic medicine



Number of publications referring to psilocybin per year (via PubMed)

IV-infused Psilocin: A Precision Approach to Psychedelics

	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
Quickly reversible in emergency	✓	✗
Strong IP positioning	✓	✗
Commercially scalable	✓	?

* Companies developing oral psilocybin include: Compass Pathways, USONA

Pilot Studies Using Oral Psilocybin

De-risking TRP-8803 trials

A cost effective method for identifying safety and efficacy signals for new indications

Access to a common and readily available generic molecule for clinical trials now

Earliest possible enhancement of IP portfolio

Ability to optimise clinical trial protocols

Establishes collaborations with key universities

Reduces clinical risk while allowing for acceleration of proprietary drug development

TRP-8802 - ORAL PSILOCYBIN

Pilot studies to identify positive signal in new indications

Partnered with leading academic institutions

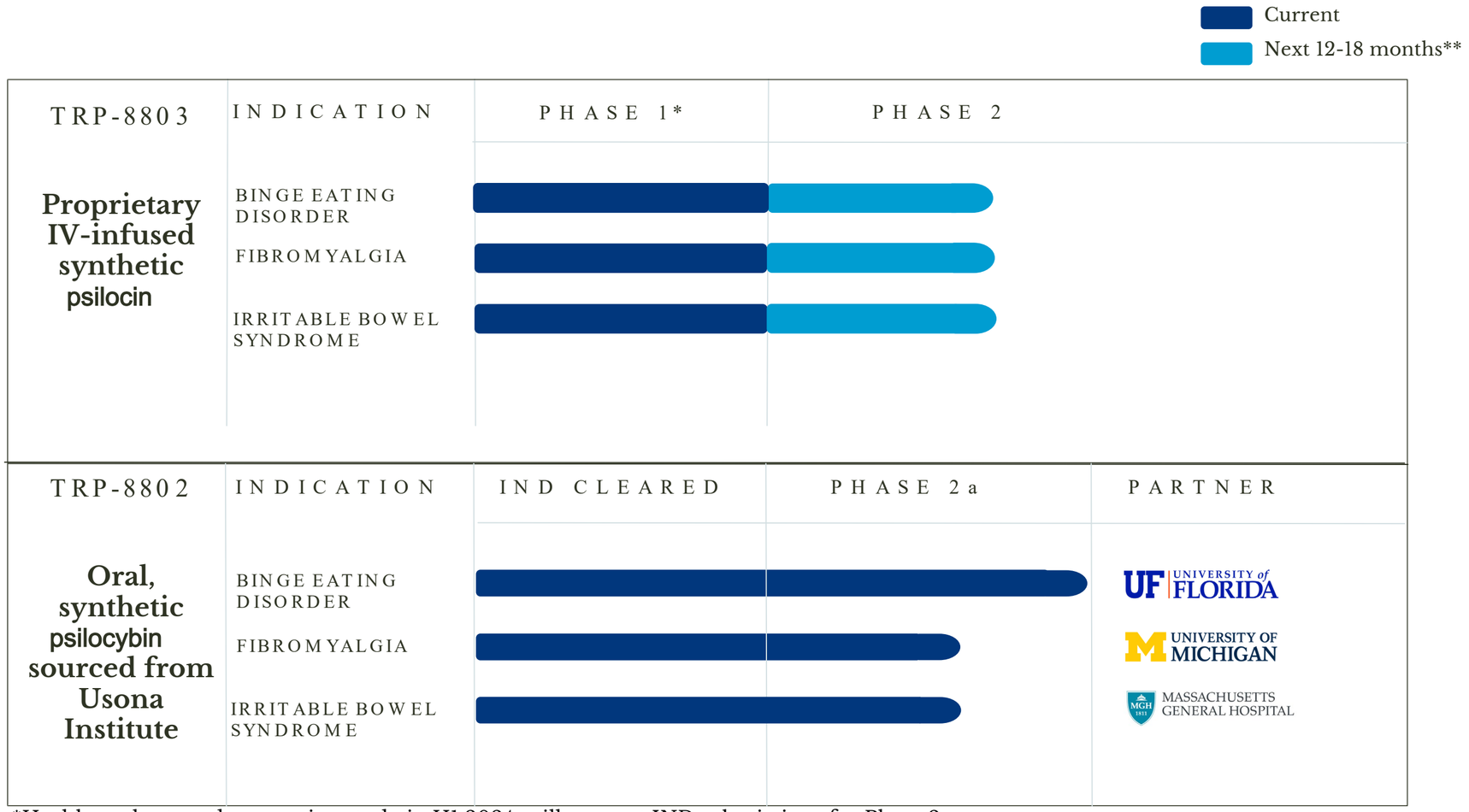
→

TRP-8803 - IV PSILOCIN

Pathway for Phase 2b/3 trials and beyond

Commercially scalable platform

Trial Pipeline



*Healthy volunteer dose ranging study in H1 2024 will support IND submissions for Phase 2a studies in patients
**The timetable is indicative only and is subject to change.

TRP-8803: Healthy Human Volunteer Study (Australia)

A global first study now underway

IV-Infused Psilocin

- Precision targeting of drug blood levels
- Fast onset time to psychedelic state (approx. 15 minutes)
- Short duration of treatment (1-2 hours)
- Reversible in emergency
- IP protection
- Commercially scalable
- Enables clinical studies in multiple indications

HREC approved trial expected to complete in H2 2024

PRODUCT	NO. OF PATIENTS	COLLABORATOR	DESIGN	DATA READ OUT	NEXT STEPS
TRP-8803	9	iNGENu, C-Max	Open label with therapist support	H2 2024	First patient treatment (H1 2024)

IV-infused psilocin: overcomes the limitations of oral psilocybin

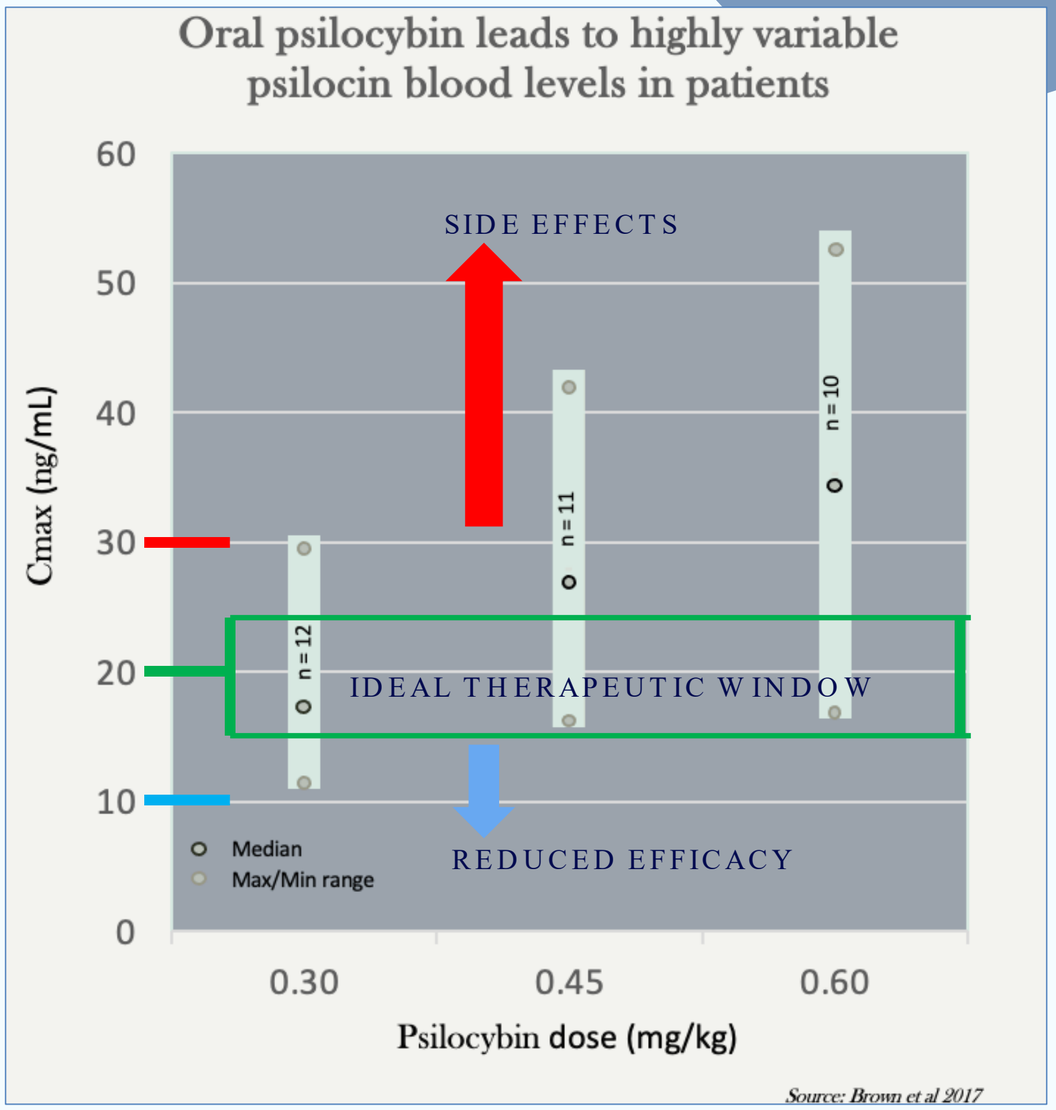
Limitations of orally administered psilocybin:

- High patient variability in terms of drug blood levels (refer graphic)
  - Psilocybin is converted into psilocin, the psychoactive metabolite, in the body
  - Percent conversion varies for each patient:
    - Effectiveness of enzymes responsible for conversion is specific to each patient
    - First pass metabolism through liver contributes to variable blood levels of psilocin
    - Dose-escalation to ensure efficacy simply leads to increased side-effects
  - May negatively impact efficacy and safety

- Long duration of treatment of approx. 8-10 hours
  - Induction phase into psychedelic state can be 1-2 hours
  - Psychedelic state can persist for an additional 6-8 hours
  - Therapists needed with patient throughout treatment period
  - Poor health economics makes commercial scale-up challenging

- Patient & Physician acceptance

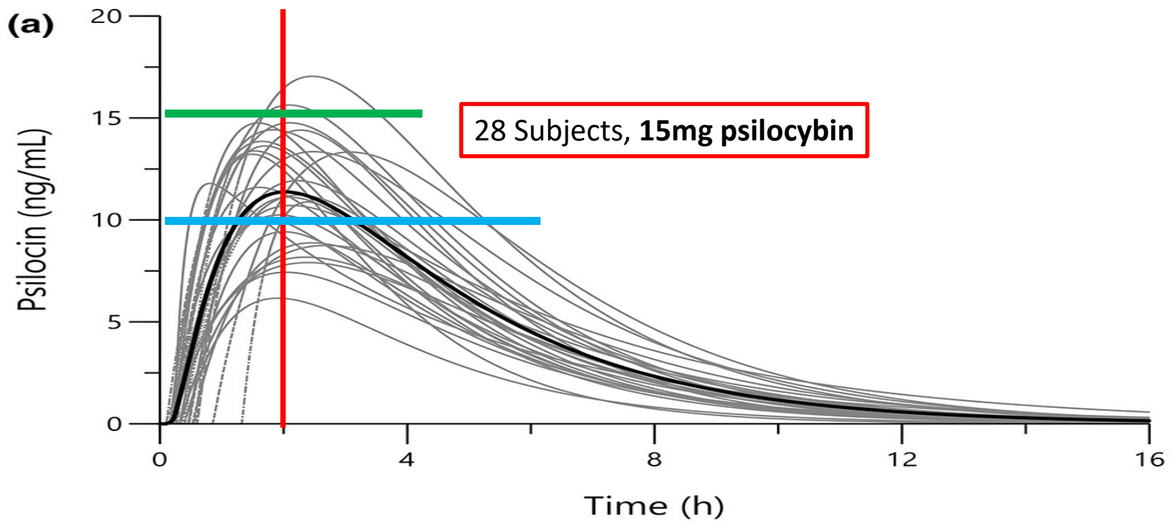
- Intellectual Property

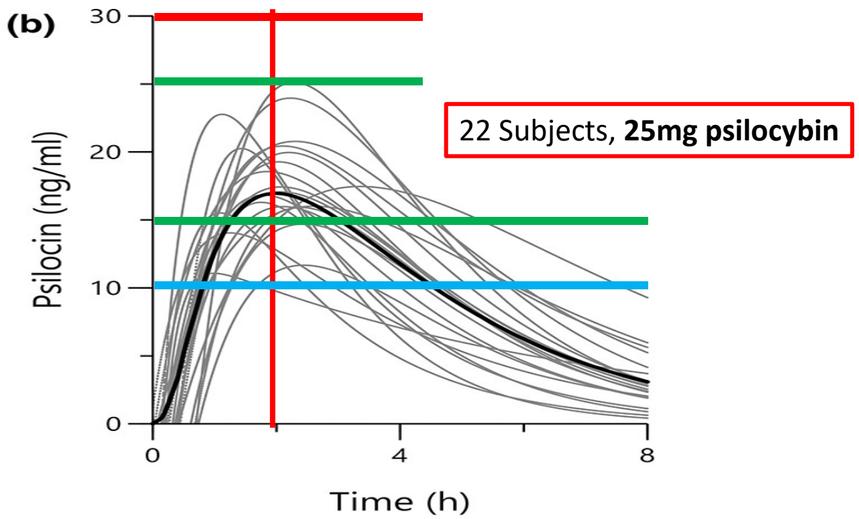


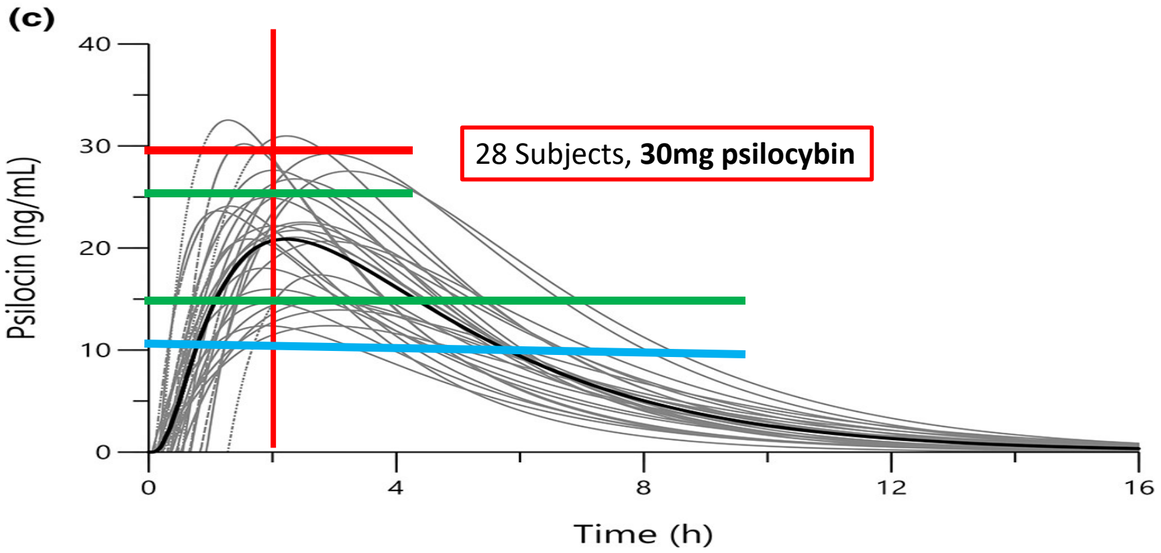
Dose variability of oral psilocybin

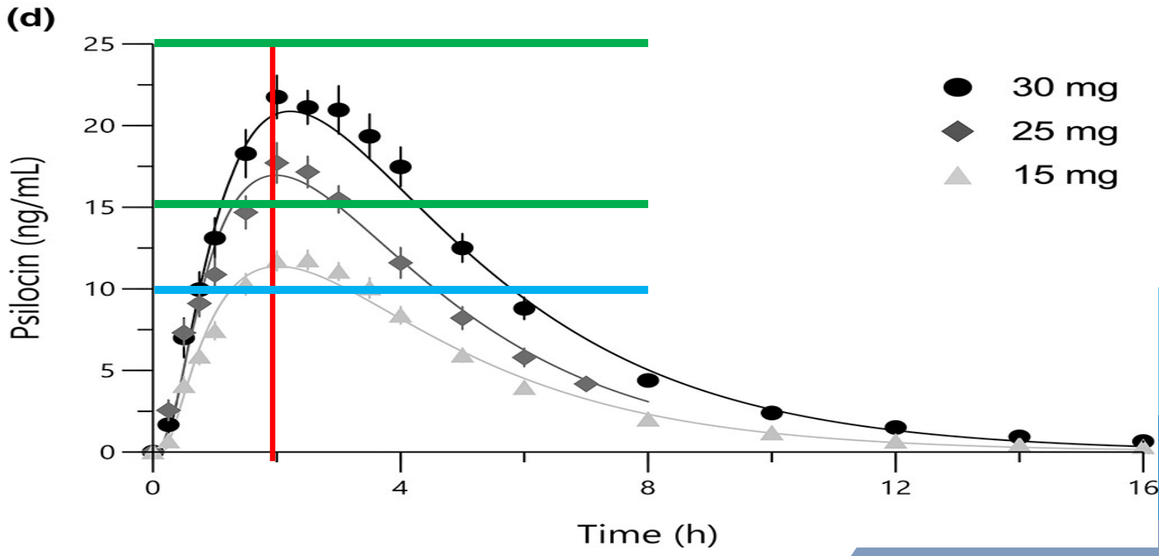
Volume 113, Issue 4
April 2023
Pages 747-751

Blood concentrations of psilocin after single dose of 15mg, 25mg & 30mg psilocybin



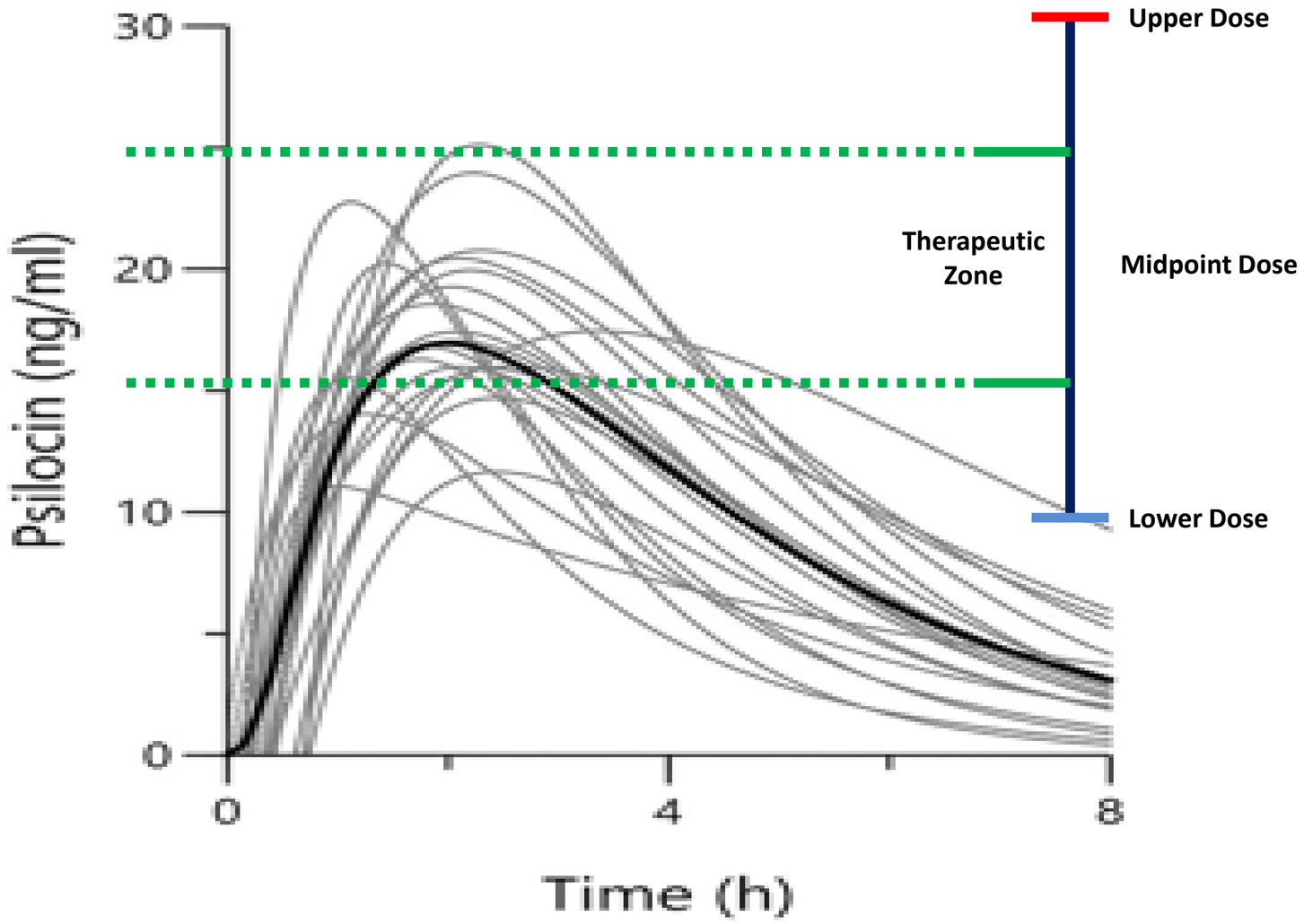


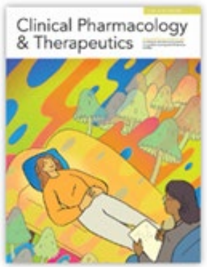




Clin Pharma and Therapeutics, Volume: 113, Issue: 4, Pages: 822-831, First published: 12 December 2022, DOI: (10.1002/cpt.2821)

Interpatient variability of oral psilocybin 25mg





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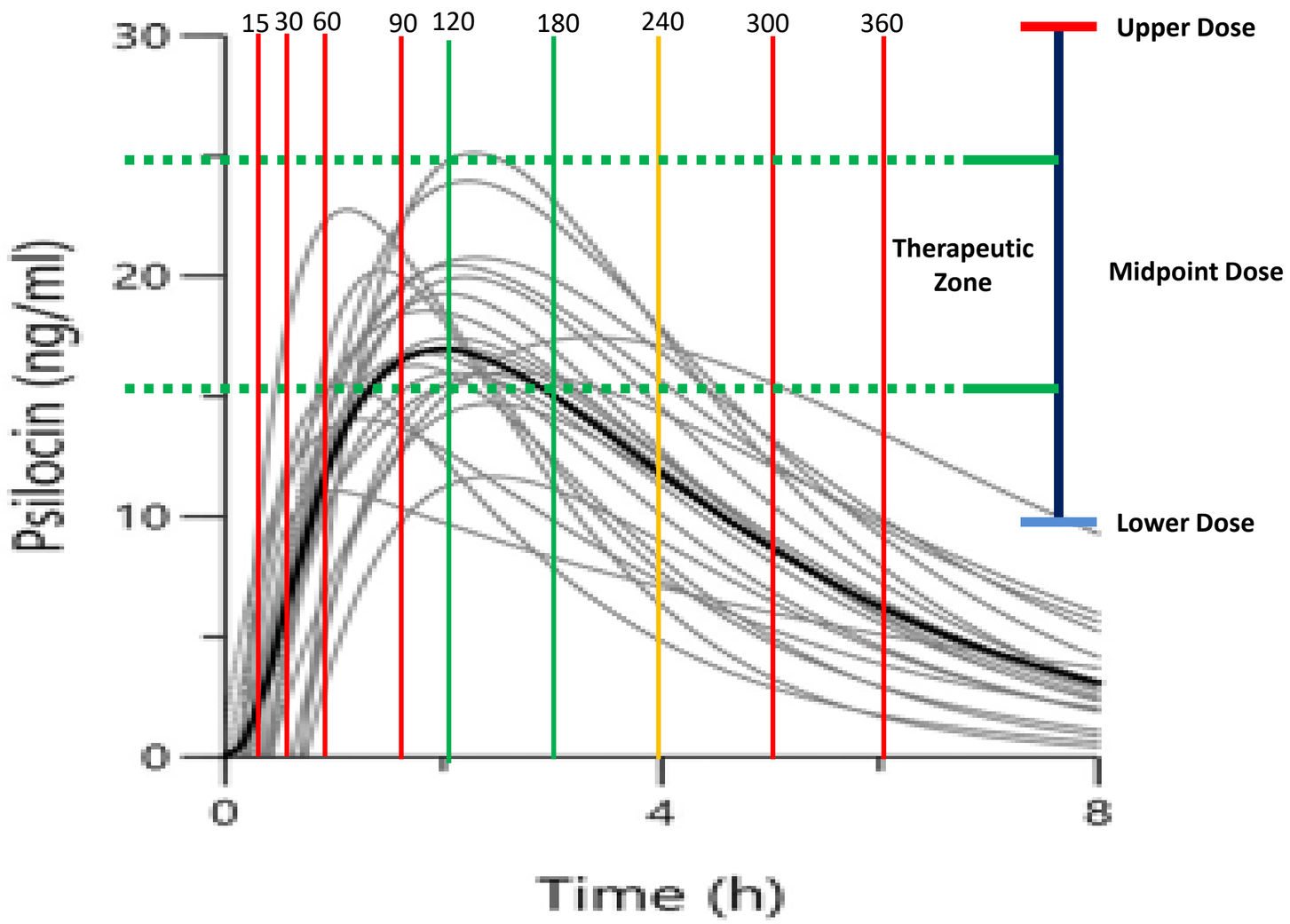

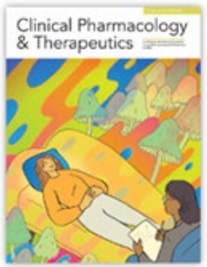

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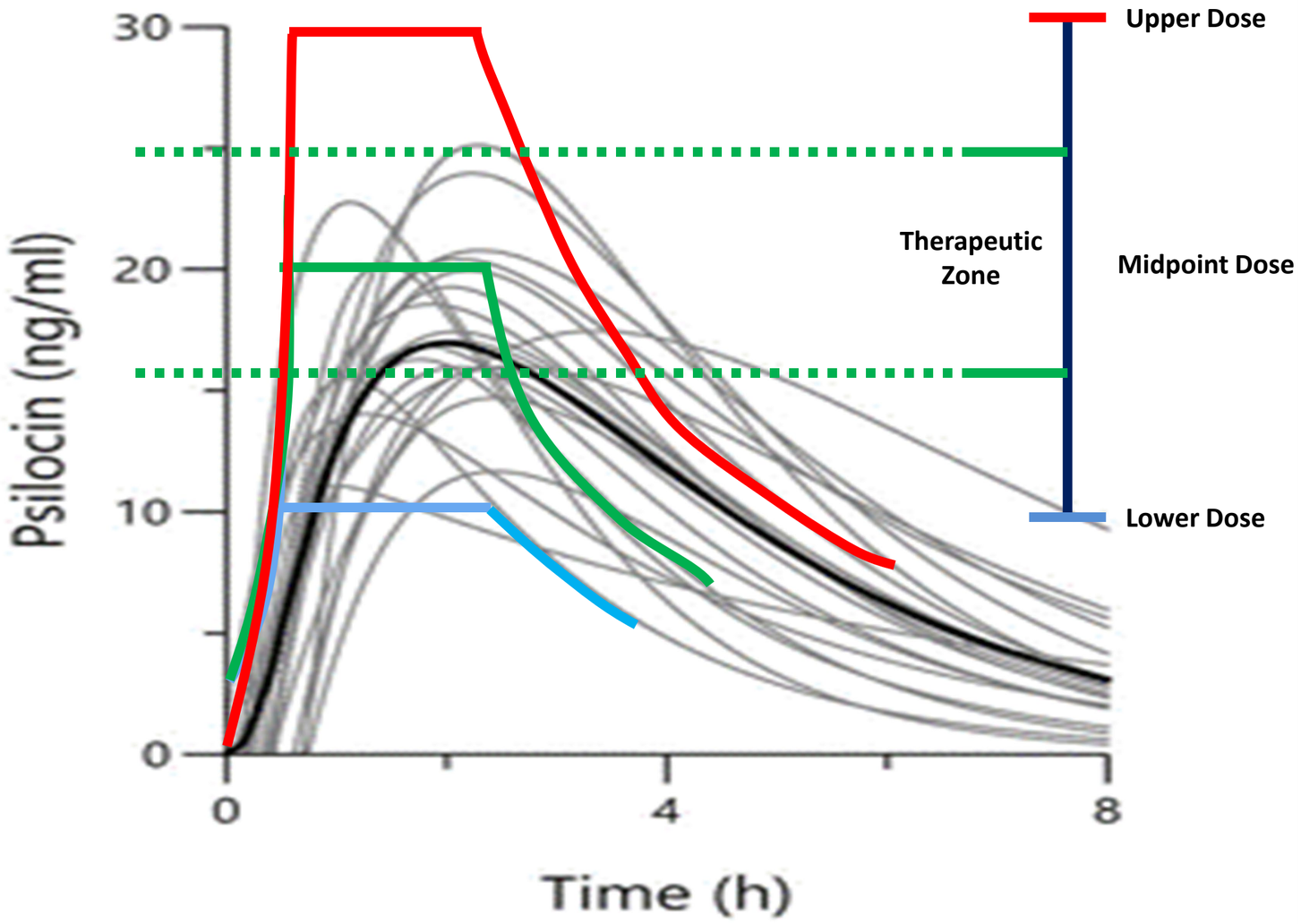
Expected dose profile : TRP8803 vs oral psilocybin 25mg



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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	H1 2025	
TRP-8802 Fibromyalgia Phase 2a final data	H1 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 TRP-8803 Phase 2 chronic pain trial (Australia)	H2 2025	

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

Fibromyalgia: Phase 2a clinical trial

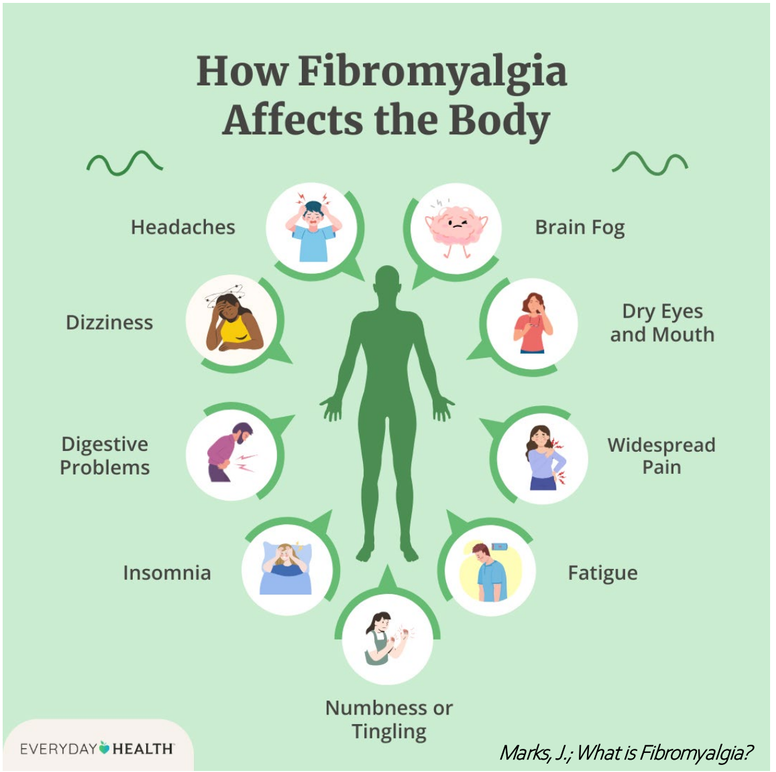
FMS characterized by widespread musculoskeletal pain, profound fatigue, sleep disturbances, and numerous other symptoms[1]

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	Up to 10	UNIVERSITY OF MICHIGAN	Open label with psychotherapy	Initial Data Readout – August 2024	Clinical Study Data Release

First patient dosed in December 2023

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*

Fibromyalgia: Phase 2a clinical trial

ASX Release **12 August 2024**

Positive Phase 2a fibromyalgia results deliver pain reduction in 100% of patients, strengthening IP position and clinical trial strategy

- Phase 2a fibromyalgia trial undertaken with University of Michigan ("UOM') with results presented at the IASP 2024 World Congress on Pain 9 August 2024 in the Netherlands
- All patients dosed with TRP-8802 (TYP's oral psilocybin formulation), and administered psychotherapy reported an improvement in fibromyalgia pain severity, sleep, pain interference and at least 3 other endpoints measured one month after dosing
- Fibromyalgia is a condition associated with widespread pain – 1m people in Australia[i] and ~10m people in the US[ii] suffer from it and there are currently limited treatment options
- Results highlighted that there was a clinically meaningful reduction in pain, pain interference and fatigue
- Patients also reported a number of other improvements including clinically meaningful improvements in quality-of-life measures such as sleep, physical activity, and the ability to participate in daily social activities
- Clinically meaningful reduction in anxiety and improved cognitive abilities were also reported in 4 out of 5 patients dosed
- In addition, one patient reported during follow-up that their sense of smell had returned following a COVID-19 diagnosis in 2021
- Results highlight the significant potential for psychedelic-assisted therapy as a compelling treatment pathway for fibromyalgia when compared to the inadequacies of incumbent treatments
- Results considerably strengthen Tryp's IP position and lay a strong foundation for a future trial using TRP-8803 (IV-infused psilocin) – Phase 2 trial planning now underway and expected to commence H1 2025

Irritable Bowel Syndrome (IBS): Phase 2a clinical trial

Chronic abdominal pain + altered bowel habits

Affects 10-15% worldwide (~790M people)[1]; leading cause of work absenteeism[2]

Associated with fibromyalgia, chronic fatigue, depression & anxiety

More common in those with early life adversity/trauma

Pathophysiology: visceral hypersensitivity

90% of serotonin synthesized in gut; enteric nervous system[3]

> "There is tremendous potential for the treatment of debilitating IBS and other disorders of gut-brain interaction by utilizing the combined administration of psilocybin and psychotherapy. Our clinical study will examine how psilocybin-assisted psychotherapy may alter important brain networks involved in chronic pain and gastrointestinal-specific anxiety in IBS to bolster the neural flexibility in these patients and thereby reduce visceral hypersensitivity"
>
> Erin Mauney, MD, Massachusetts General Hospital

PRODUCT	NO. OF PATIENTS	COLLABORATOR	DESIGN	DATA READ OUT	NEXT STEPS
TRP-8802	Up to 10	MASSACHUSETTS GENERAL HOSPITAL	Open label with psychotherapy	H2 2024	Dose completion

First patient dosed July 2024; Next steps Dosing Completion

1. https://gi.org/topics/irritable-bowel-syndrome
2. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5010380/
3. https://www.nature.com/articles/s41598-022-05756-0

Binge Eating Disorder (BED): Phase 2a clinical trial

TRYPTAMINE THERAPEUTICS

Recurring episodes of eating large quantities of food and feeling unable to stop

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

No currently approved treatments developed specifically 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

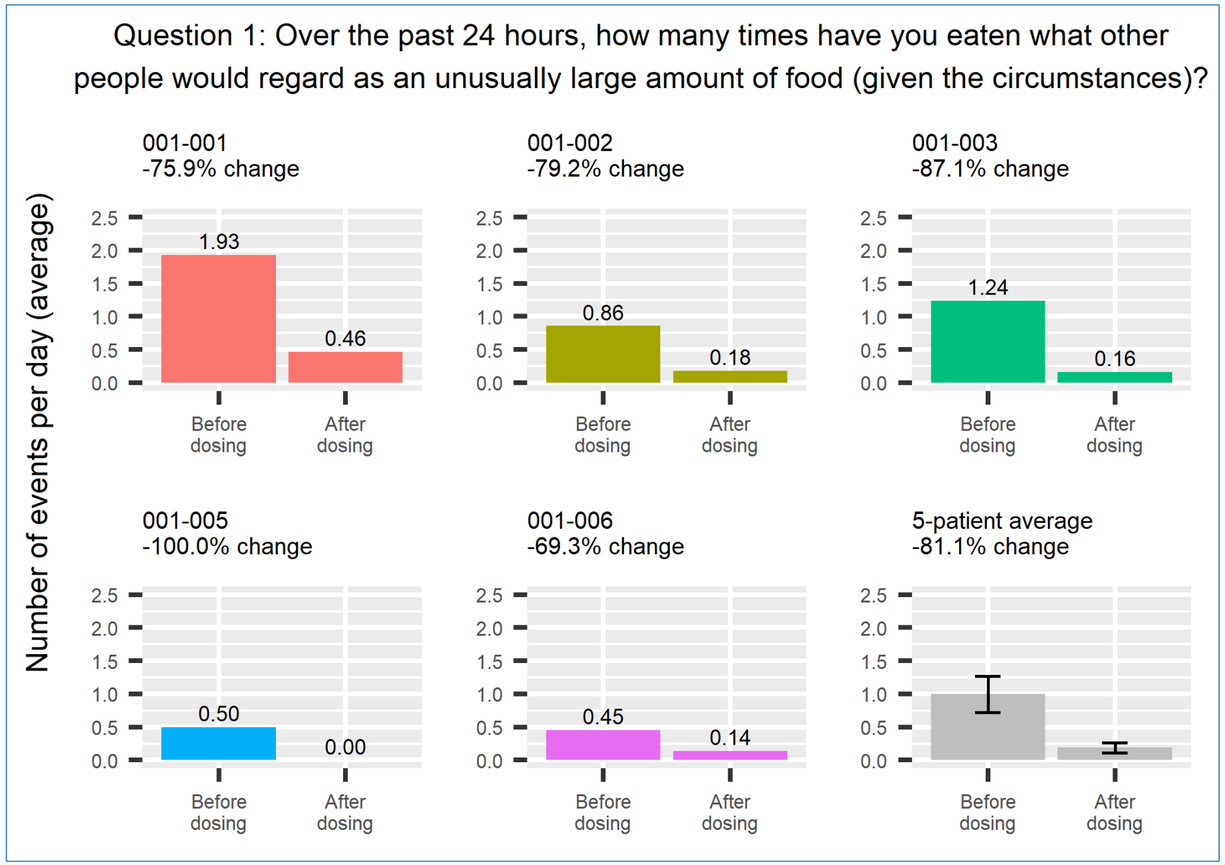
PRODUCT	NO. OF PATIENTS	COLLABORATOR	DESIGN	DATA READ OUT	NEXT STEPS
TRP-8802	6	UF UNIVERSITY of FLORIDA	Open label with psychotherapy	Data announced Q1 2023	Scientific paper publication

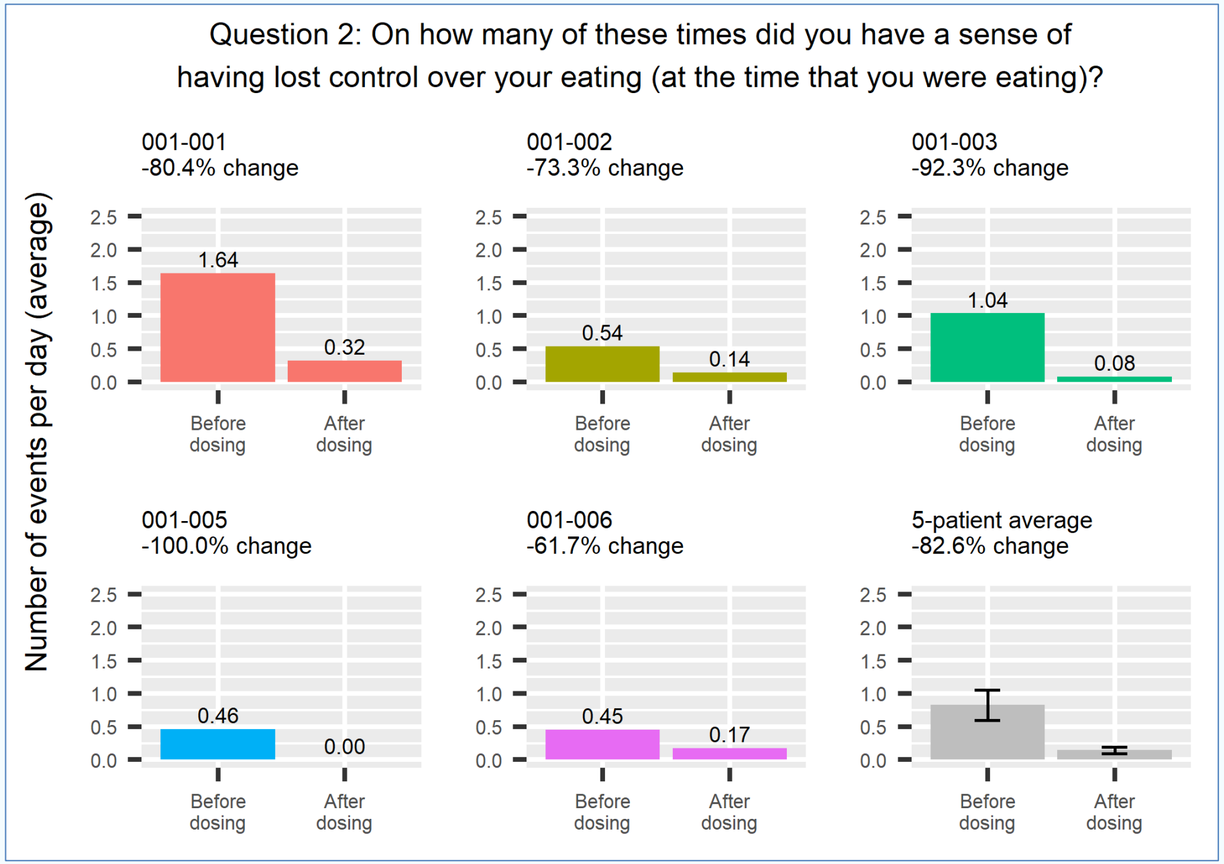
Positive interim data announced in January 2023, including mean reduction >80% for Binge Eating Score confirmed as viable target for future studies using TRP-8803

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*

University of Florida Phase 2a Interim Analysis:

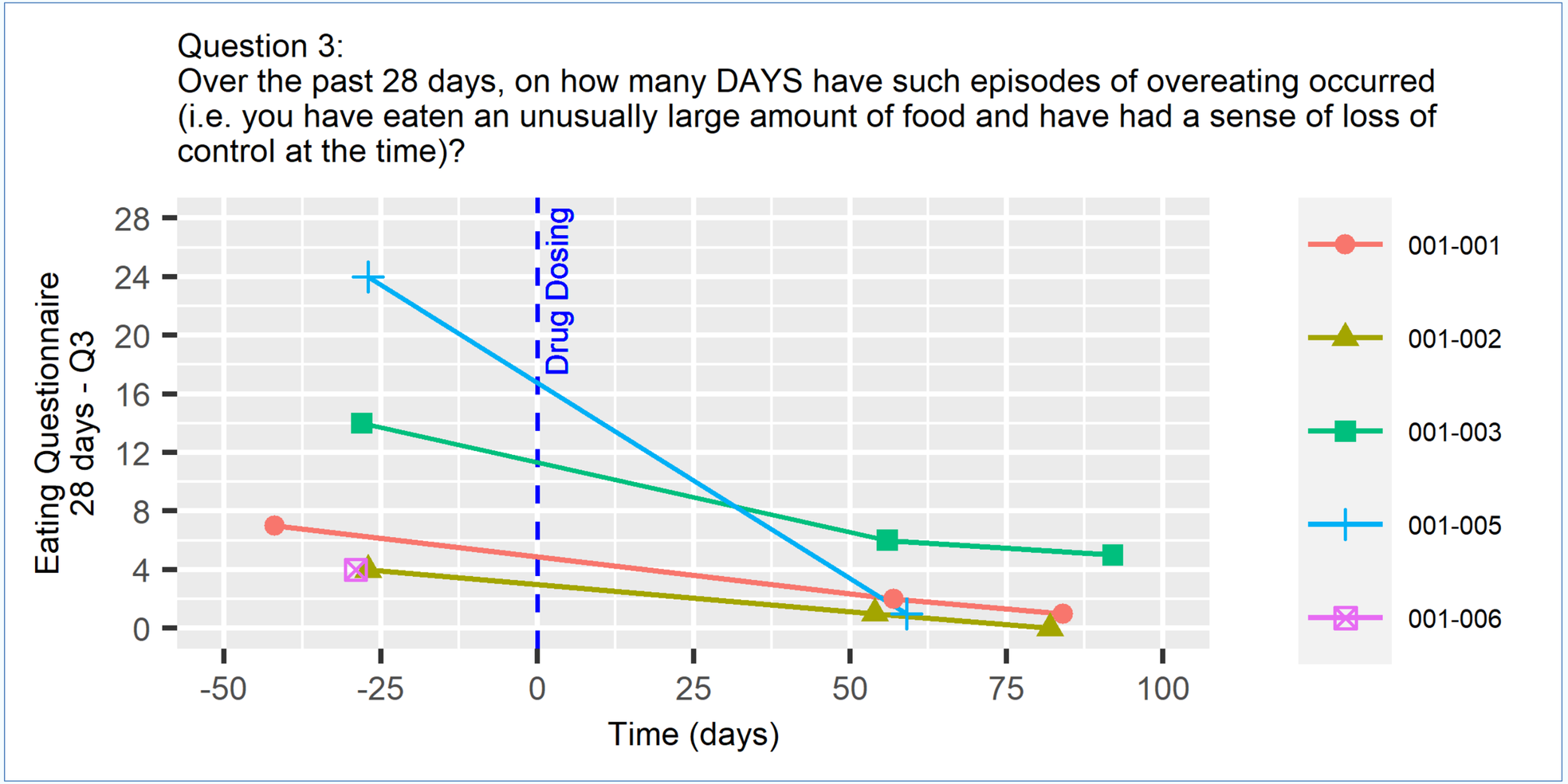
Significant reduction in frequency & extent of binge eating (daily, 4 weeks)





University of Florida Phase 2a Interim Analysis:

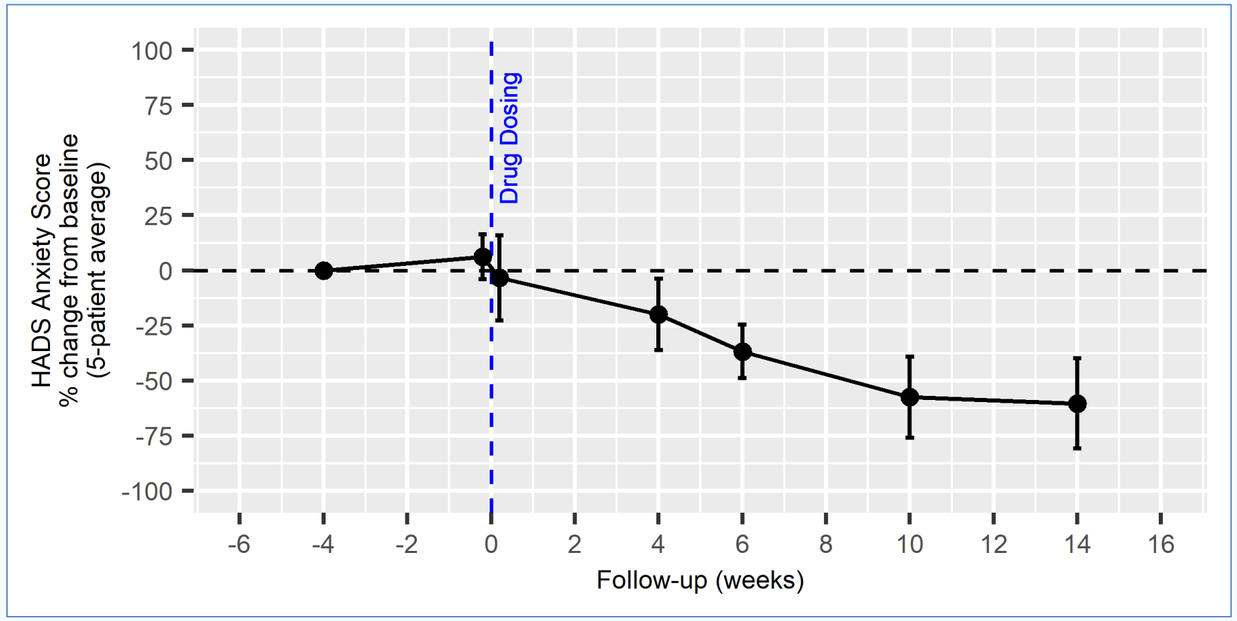
Durable effect on binge eating episodes



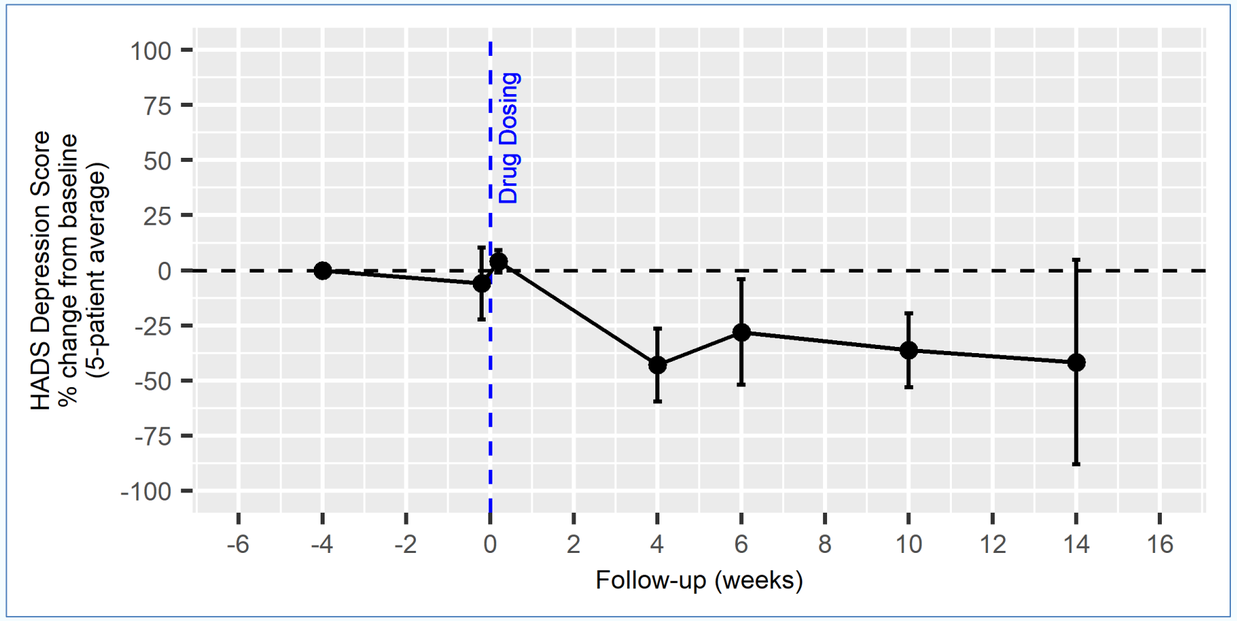
TRYPTAMINE THERAPEUTICS

University of Florida Phase 2a Interim Analysis:

Significant fall in Hospital Anxiety & Depression Scores (HADS)



HADS Anxiety Score



HADS Depression Score

Robust Intellectual Property Portfolio

Patent applications and trade secrets based on novel methods for manufacturing, formulation, dosing, and specific disease indications

- Filed a provisional patent 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 in the treatment of Binge Eating Disorder (BED) filed June 2022
- Provisional patent application for the treatment of fibromyalgia submitted September 2022
- Provisional patent application for salt & co-formers of TRP-8803 filed September 2022
- Provisional patent for IBS filed January 2, 2023

MORRISON FOERSTER

Allens › ‹ Linklaters

TRYPTAMINE THERAPEUTICS

Psychedelic Market Landscape

Company	Ticker	Mkt cap (AUD)	Compound	Stage	Indication(s)
AbbVie Inc.	NYSE: ABBV	**414Bn**	Multiple	Phase 1 / 2 completed	Multiple
Compass Pathways	NASDAQ: CMPS	**$912m**	**Psilocybin**	**Phase 3**	Treatment resistant depression, PTSD, Anorexia
GH Research	NASDAQ: CMPS	**469.7m**	5-MeO-DMT	Phase 1/2 completed	Treatment resistant depression
Atai Life Sciences	NASDAQ: ATAI	**458m**	**Psilocybin**	**Preclinical** - Phase 2	Depression, Anxiety, Schizophrenia, Opioid Use Disorder, PTSD
Cybin	NYSE: CYBN	**227.2m**	**Psilocybin**, DMT	**Preclinical** - Phase 2	Depression, Anxiety, Alcohol Use Disorder, Neuroinflammation
Lykos	NASDAQ: MNMD	**154.7m**	LSD, MDMA	Phase 2	Anxiety, ADHD
Icannex Healthare	**ASX: IHL / NASDAQ: IXHL**	**$102.6m**	**Psilocybin** & CBD	**Phase 1** completed	Anxiety
Little Green Pharma	**ASX: LGP**	**42m**	**Psilocybin** & CBD	**Preclinical**	Treatment resistant depression
Emyria	**ASX: EMD**	**24.5m**	MDMA & CBD	Preclinical	Parkinson's, Fibrotic Disease, pain
Tryptamine Therapeutics	**ASX: TYP**	**22.8m**	**Psilocin & psilocybin**	**Phase 2**	**Eating disorders, Chronic pain (nociplastic)**

Market data at 22 January 2024
*USD/AUD exchange rate of 1.52

TRYPTAMINE THERAPEUTICS

Investment highlights

A Precision Approach to Psychedelic Medicine

- IV-Infused Psilocin overcomes critical challenges of oral psilocybin dosing, providing significant competitive advantages
- Transformative and commercially scalable intellectual property (IV-Infused Psilocin)
- Potential beneficiary of recent positive changes to TGA regulation in Australia
- Multiple near-term value-creating catalysts
- First mover advantage and IP protection for each indication being targeted
- Clinical trials ongoing, with positive efficacy data already announced
- Partnered with multiple leading academic institutions for Phase 2 trials
- 43.5% R&D credit for qualifying clinical trials in Australia
- Experienced management team with proven biotech and drug approval success
- World-class Scientific Advisory Board

TRYPTAMINE THERAPEUTICS

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