

New treatments for improving Australia's mental health

January 2024Company Overview & Strategic Update



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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 MDMA include high blood pressure, increased pulse rate, faintness, and panic attacks, and in some rare cases it can cause loss of consciousness or trigger seizures. Other side effects include involuntary jaw clenching, decreased appetite, restless legs, nausea, headache, sweating and muscle/joint stiffness. These effects are unlikely at low doses in the treatment regimens used in psychedelic-assisted psychotherapy while appropriately managed in a controlled environment with direct medical supervision.





Greg Hutchinson Non-Executive Chairman

With approved Authorised Prescribers, Emyria is advancing from *trials* to *treatment* which we believe is a world-first for a community-based service.

emyria (ASX:EMD) STRATEGIC OVERVIEW

The only ASX-listed entity integrating direct care delivery with drug development

DRUG-ASSISTED STRONG IP & NOVEL WORLD-CLASS MENTAL HEALTH **IMMEDIATE FOCUS THERAPIES PATIENT IMPACT & PRODUCTS TEAM & PARTNERS REVENUES** We provide new We are the first. We are currently Data captured through our Valued partners like the clinics creates intellectual treatments for large community-based private generating approximately NIH & the University of unmet mental health clinic to commence \$1M in clinical billings per Western Australia support property and supports our challenges, starting with MDMA-assisted therapy quarter fueling our growth drug development our research ambitions trials under TGA guidelines **PTSD** and drug development programs initiatives

EMYRIA | CORPORATE OVERVIEW

Strategic investment from leading life science institutional investors

ASX: EMD TRADING INFORMATION				
Share Price	A\$0.059 ¹			
6-Month low / high	A\$0.05 / 0.14			
Shares Outstanding	349,226,509			
Market Capitalisation	A\$21.6M			
Debt (30 Sep 2023)	Nil			
SUBSTANTIAL SHAREHOLDERS				
Shareholder	%			
Tenmile	6.8%			
Top 20	56.3%			



LEADERSHIP IN **MENTAL HEALTH** - AN AREA THAT

DESPERATELY NEEDS NEW

SOLUTIONS



DEMAND FOR MENTAL HEALTH SERVICES IS HIGH

Prevalence of mental ill health in Australia 1

- Over **2** in **5** experience a mental health disorder at some time in their life
- 1 in 5 have had a mental health disorder in the past 12 months
- 15% of adults reported experiencing "high" to "very high" mental distress in the past 12 months

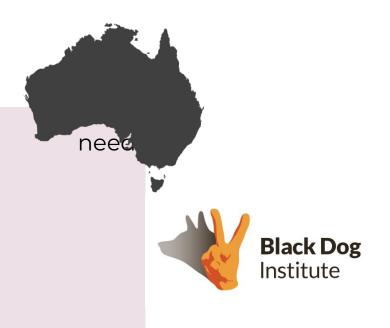




BUT, SUPPLY OF MENTAL HEALTH SERVICES IS STRUGGLING

More than **1 million** Australians are unable to access the care they due to workforce shortages of trained mental health professionals ¹

Notably, **1 in 3** psychologists have closed books ²



EMYRIA DELIVERS & DEVELOPS NEW TREATMENTS TO IMPROVE MENTAL HEALTH

Emyria's 3-step strategy:

(T)	DELIVER INNOVATIVE CARE: Our clinics offer care programs that comply with current regulatory standards, including treatments involving drugs that have undergone recent rescheduling	20,000 patients cared for to date ¹
	CREATE REVENUE GROWTH: We apply strong commercial discipline to ensure healthy and sustainable service revenues	\$1m / qtr from clinical services and growing each year ²
	SCALE NATIONALLY, THEN INTERNATIONALLY: We leverage our revenues to support capacity growth; We use our data to support innovation and IP creation	30 treatments / month target first yr

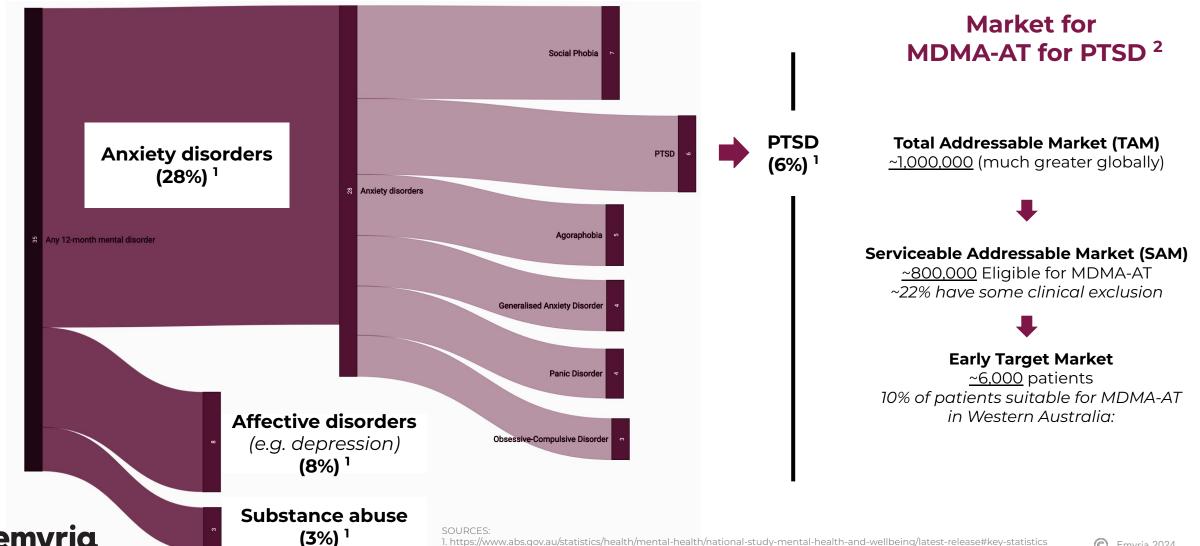


WE ARE EVALUATING
DRUG-ASSISTED
THERAPIES FOR **PTSD**



WHY POST-TRAUMATIC STRESS DISORDER ('PTSD')?

PTSD is a large unmet need and we are experts in caring for psychological trauma



2. See ASX presentation 06 September 2023

WHY MDMA-ASSISTED THERAPY ('MDMA-AT') FOR PTSD?

1	PTSD IS PREVALENT & NEEDS NEW TREATMENTS	PTSD affects 6% of all Australians (~1M people) ¹ 60% more prevalent in first-responders ² 50% of patients develop treatment resistance ³
2	MDMA-AT SHOWS PROMISE IN CLINICAL TRIALS - RISKS ASSOCIATED WITH THE USE OF MDMA ARE SET OUT IN SLIDE 2	After 3 treatments, 70% of participants no longer met criteria for PTSD <i>(compared to ~48% in placebo group)</i> . Results replicated across two, Phase 3 trials ^{4,5}
3	MDMA-AT IS COST EFFECTIVE	us\$132.9million expected to be saved over 30 years per 1,000 treatments ⁶
4	EMYRIA KNOWS HOW TO DELIVER INNOVATIVE SERVICES	We've cared for 20,000+ and our team is experienced in providing services compliant with regulatory standards and have managed treatments involving rescheduled drugs
5	EMYRIA HAS A BUSINESS MODEL FOR GROWTH	\$1m / quarter current clinical billings, and growing, supports clinic expansion and novel drug development ⁷

7. See September Quarter 4C, 2023

^{1.} https://www.phoenixaustralia.org/news/ptsd-awareness-day-2022/

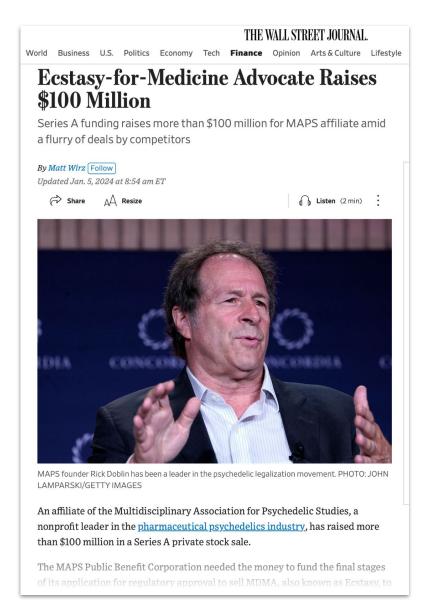
^{2.} Bryant RA. The nature of PTSD in treatment-seeking first responders. Eur J Psychotraumatol. 2022 Jan 26;13(1):2011602.

^{3.} Committee on the Assessment of Ongoing Efforts in the Treatment of Posttraumatic Stress Disorder; Board on the Health of Select Populations; Institute of Medicine. Washington (DC): National Academies Press (US); 2014 Jun 17.

^{4.} Mitchell, J.M., et al. MDMA-assisted therapy for severe PTSD: Nat Med 27, 1025–1033 (2021)

^{5.} Mitchell, J.M., et al. MDMA-assisted therapy for moderate to severe PTSD: Nat Med (2023). https://doi.org/10.1038/s41591-023-02565-4 6. Marseille E., et al. Updated cost-effectiveness of MDMA-assisted therapy for the treatment of posttraumatic stress disorder in the US Findings from a phase 3 trial. PLoS One. 2022 Feb 25;17(2):e0263252. doi: 10.1371/journal.pone.0263252

MDMA-ASSISTED THERAPY IS ATTRACTING SIGNIFICANT GLOBAL INVESTMENT



Jan 5th, 2024

MAPS raised USD \$100M to pursue the FDA registration and commercialisation of their MDMA product. ¹

This creates a massive need for clinical services with the infrastructure and team capable of delivering these treatment in a safe and commercially viable way.

WHAT IS POST-TRAUMATIC STRESS DISORDER ('PTSD')?

A chronic, debilitating mental health disorder that can occur following a traumatic event

Key Stats

- PTSD affects ~6% of adults (with higher incidence in first responders)¹
- Up to 50% treatment resistance¹
- **US\$232.2B** annual total cost in USA²

Symptoms

Re-experiencing:

Intrusive memories, flashbacks, and nightmares

Avoidance:

Evading reminders of the trauma and feeling detached

Increased arousal:

Irritability, sleep issues, and easily startled

Mood & cognition:

Persistent negative emotions and distorted blame

Physical symptoms:

Palpitations, sweating, and gastrointestinal issues

Current Treatments











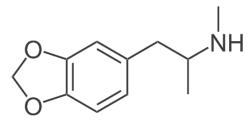
WHAT IS MDMA-ASSISTED THERAPY (MDMA-AT)?

Patients undergo psychotherapy sessions while under the influence of MDMA to enhance the therapeutic process

MDMA



PSYCHOTHERAPY



MDMA (3,4-methylenedioxymethamphetamine or "ecstasy")

MDMA produces feelings of emotional connection, openness and fear extinction



Supportive intensive, trauma-informed psychotherapy is believed to be crucial to therapeutic benefit

Proposed Benefits with Skilled Therapy

MDMA-AT is thought to assist patients to access traumatic memories with reduced distress.

Improved feelings of trust and wellbeing while under the influence of medication can support communication and strengthen the therapeutic alliance between patient and therapist.

Risks & Exclusions

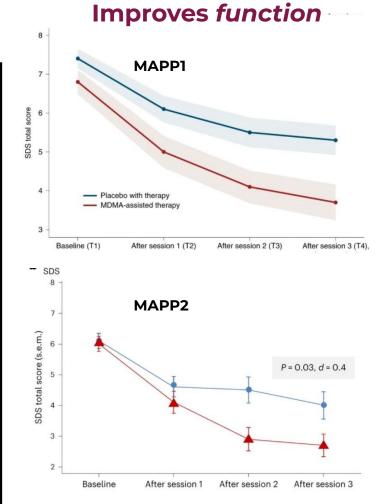
Patients with cardiovascular or psychotic disease are generally excluded. Main side effects can include anxiety, restlessness, fatigue, jaw-clenching, headache and transient increases in blood pressure and / or heart rate - all of which are closely monitored. ¹



MDMA-AT SHOWING PROMISE FOR PTSD | TWO PHASE 3 TRIALS COMPLETED 1,2 (MAPP1 & MAPP2)

Improves symptoms **MAPPI** — Placebo with therapy Baseline (T1) After session 1 (T2) After session 2 (T3) After session 3 (T4) CAPS-5 50 Placebo with therapy (n = 50) MAPP2 MDMA-AT (n = 53)P < 0.001, d = 0.7Baseline After session 1 After session 2 After session 3

MDMA-AT significantly reduced PTSD symptoms, as shown by the change in CAPS-5 total severity score from baseline to 18 weeks after baseline



MDMA-AT significantly improved quality of life, as shown by the change in Sheehan Disability Scale score from baseline to 18 weeks after baseline

Key benefits after 3 treatment sessions

86.5% of MDMA-AT participants reported <u>improvement</u>, compared to 69% in placebo group.

71.2% of MDMA-AT participants no longer met PTSD criteria, compared to 47.6% in the placebo group.

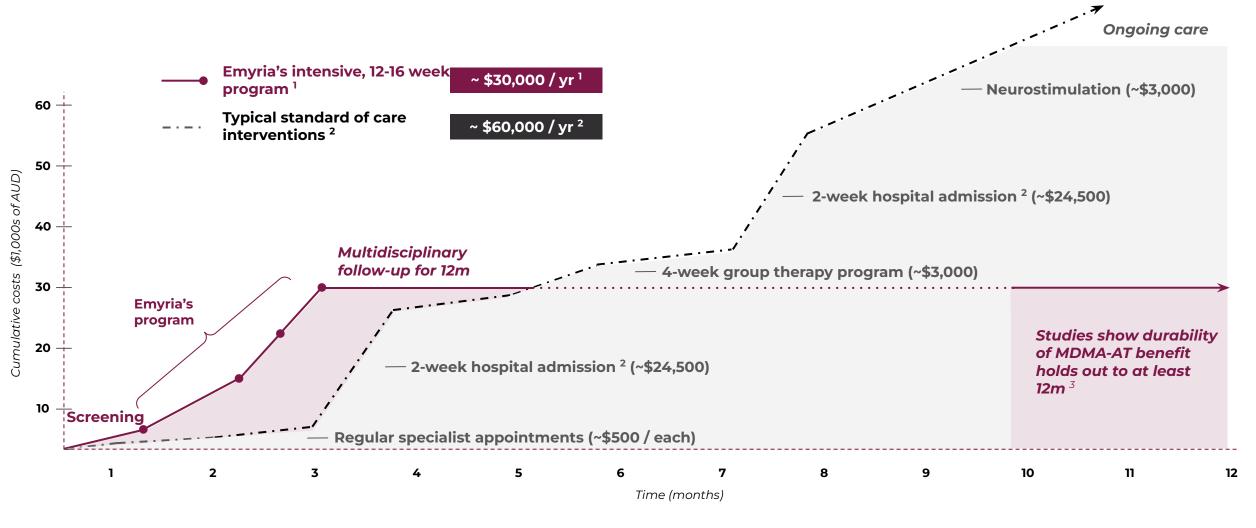
Risks associated with MDMA-AT are set out in Slide 2.

Further enhancements reported in various life areas, including familial, social, and professional aspects.



MDMA-AT COSTS 1 vs STANDARD OF CARE 2,3

If Phase 3 clinical trial remission rates can be achieved in real world settings, MDMA-AT is cost effective for PTSD



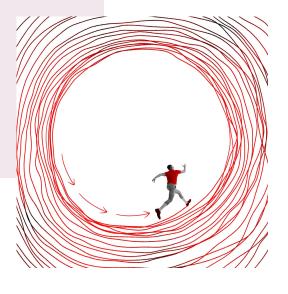


1. Costs are estimated based on estimates of direct clinician time required to delivery program

^{2.} Standard of care costs based on conversations with clinical specialists. WA East Metropolitan Health Service reported Specialised Mental Health Care Days average cost of \$2,156 per day in FY 2022 / 2023 (https://annualreport.emhs.health.wa.gov.au/key-performance-indicators/browse-kpis/average-cost-per-bed-day-in-specialised-mental-health-inpatient-services/)



DELIVERING IMMEDIATE PATIENT IMPACT



EMYRIA HAS MADE SIGNIFICANT PROGRESS IN THE LAST 24 MONTHS

While providing care to thousands of patients, we have developed and refined our treatment environment & care models

Dedicated facilities

multiple, fit-for-purpose consulting rooms ¹

20+ clinicians trained and ready to support psychedelic-assisted therapy ¹

Robust data capture

systems ³ - to generate insights that help improve care delivery and guide innovation

Approved Authorised

Prescribers working with a range of clinicians to provide multidisciplinary care before, during and after treatment ⁴









Key advantages of the Emyria model:

- ✓ Commercially viable clinical services
- ✓ Designed to scale nationally, then globally
- ✓ Compliant with all regulatory requirements
- ✓ Generates robust Real-World Data to support innovation
- ✓ Versatile team and infrastructure ready to evaluate new interventions
- ✓ Multidisciplinary and comprehensive "wrap-around" mental health care



^{2.} See ASX release 21 September 2023

^{3.} See ASX release 07 October 2021

^{4.} See ASX release 10 January 2024

WHERE NEXT? LEVERAGE PTSD EXPERTISE TO TACKLE ADDITIONAL MENTAL HEALTH DOMAINS

35% of Australian adults experienced at least 1 mental health challenge in the last 12 months 1

Start with PTSD



Multidisciplinary clinics providing evidence-based psychological trauma care

Expand to other mental health challenges



Add new services for conditions like treatment-resistant depression

Expand globally



Seek growth opportunities via strategic partnerships

emyria ——OUR 12m ROADMAP ———

#	PROGRAM	MILESTONE 1	MILESTONE 2
1	Launch new service 🕢	Emyria psychiatrists obtain Authorised Prescriber status	Provide full treatment for first 20 patients
2	Scale service nationally	Commence service in another AU state (via acquisition or licence)	Treat first 20 patients in another AU state
3	Launch second new service for depression	Obtain Authorised Prescriber status for second service	Treat first 5 patients with new service
4	Engage Payers	Secure a major payer partnership	Secure second major Payer
5	Secure intellectual property for MDMA analogues	Receive Clear Search Report from international patent examiner	Secure granted patents in national phase

OUR INDUSTRY PEERS

Innovative, premium clinical services can do well

	COMPANY	SECTOR	VALUATION or (REVENUES)
1	Oak St. Health	A US health care network of primary care centers for older adults with Medicare	USD\$10.7B (acquired by CVS) ¹
2	Healthia Your local healthcare leader	An integrated allied healthcare organisation with networks of optometry, podiatry, and physiotherapy clinics	A\$260M (acquired by Pacific Equity Partners) ²
3	Sonic SONIC CLINICAL SERVICES	Occupational medicine and general practice services	(over A\$200M / year) ³
4		A US chain of primary healthcare clinics	USD\$3.9B ⁴ (acquired by Amazon)
5	## cityblock	A US health care network focussed on Medicare and Medicaid	Has raised over USD\$800M ⁵





^{2.} https://www.afr.com/street-talk/moelis-tapped-for-pep-s-1-80-a-share-bid-for-healthia-20230831-p5e0ux

^{3.} https://investors.sonichealthcare.com/FormBuilder/_Resource/_module/T8Ln_c4ibUqyFnnNe9zNRA/docs/Reports/AR/SHL_Annual_Report_2023.pdf

^{4.} https://press.aboutamazon.com/2022/7/amazon-and-one-medical-sign-an-agreement-for-amazon-to-acquire-one-medical

^{5.} https://www.cbinsights.com/company/cityblock-health/financials

OUR **DRUG DEVELOPMENT**& IP PIPELINE



EMYRIA'S PHARMACEUTICAL DEVELOPMENT PIPELINE

Novel chemical entities and unique dose forms

PROGRAM DESCRIPTION	LEAD SERIES	DEVELOPMENT GOAL	STAGE	COMMERCIAL STATUS	CATEGORY LEADER
Novel, MDMA-inspired medicines	S Developed with th	e University of Western Australia			
With partner, the University of Western Australia, we have created the world's largest library of novel, patentable, MDMA analogues.	EMD-MX1	Faster-acting MDMA, with improved side-effect profile, for drug-assisted therapies	ACTIVE: Metabolic studies to evaluate half-lives of lead drug candidates.	_	Kinoxis (Preclinical offer \$273M) ¹
We're modifying the MDMA molecule to change its affects such as its selectivity for one or more of the three major neurotransmitters, it's onset of action and its side effect profile.	EMD-MX2	Adjunct for Parkinson's disease to improve the side effects of a common treatment	ACTIVE: Release assays with the NIH for lead series to help identify most potent drug candidates for animal studies.	_	Levodopa (\$8B /yr) ²
Our MDMA analogues are small, brain penetrating molecules with a range of potential applications.	EMD-MX3	Other neurological indications	ACTIVE: Binding receptor screening with Eurofins to select candidates for further preclinical assays.		
Ultra-Pure CBD capsules Highly bio	oavailable CBD				
Synthetically-derived Ultra-Pure cannabidiol in	EMD-RX7/9	Prescription medicines for complex pain & anxiety	ACTIVE: FULLY FUNDED PRECLINICAL PROGRAM paid for by the NIH ³ currently preparing for rat PK studies ahead of Phase 1 & Pre-IND		Epidiolex (\$1B/yr) ⁴
proprietary formulations to improve bioavailability.	EMD-RX5	Pharmacy treatment for mild anxiety & stress	Phase 3 clinical trials partially completed ⁵	Partnered with ASPEN PHARMACARE AUSTRALIA ⁶	N/A

SOURCES:

- 1. https://www.sydney.edu.au/news-opinion/news/2023/05/05/sydney-spinout-kinoxis-273m-develop-drugs-psychiatric-disorders.html
- 2. https://www.gminsights.com/pressrelease/parkinsons-disease-therapeutics-market
- 3. See ASX release 28 Nov 2022
- 4. https://investor.jazzpharma.com/news-releases/news-release-details/jazz-pharmaceuticals-announces-full-year-and-fourth-quarter-2022
- 5. See ASX release 06 September 2023
- 6. See ASX release 04 April 2023



EMYRIA'S GROWING PATENT PORTFOLIO

Emyria's unique intellectual property ('IP') is guided by clinical data we collect and covers: **new chemical entities**, **dosage forms**, **methods of treatment** and **software**

	TITLE	OFFICIAL NO.	STATUS
	MDMA Analogues	2021903836	PCT filed
Cannabio	diol Dosing Regime	2021902001	PCT filed
Cannab	inoid Dosage Form	2022900479	PCT filed
Use of Cannabidiol for the Treatment of Psy	/chological Distress	2020904152	PCT filed
Use Of Cannabidiol for the Treatment of Psy	/chological Distress	2021901086	Provisional filed
Use Of Cannabidiol for the Treatment of Irritable Bowel Sy	ndrome Symptoms	2021901672	Provisional filed
Use Of Cannabinoid Combination for the Treatment of Irritable Bowel Sy	ndrome Symptoms	2021901674	Provisional filed
Others in development covering unique delivery platforms, dose responses and	clinical indications	Additional provisi	onals expected



EMYRIA'S **WORLD-CLASS TEAM**& PARTNERS

WORLD-CLASS BOARD AND MANAGEMENT TEAM

Founded and scaled innovative clinical services; commercialised novel drug treatments



Greg Hutchinson Non-Executive Chairman

- Health Service Expansion: Spearheads growth and innovation as CEO Sonic HealthPlus and through 5D Clinics: leads 40+ clinics
- Strategic Vision: Influential in Australia's health sector, aligning with mission to expand and innovate mental health treatment services







Prof Sir John Tooke Non-Executive Director

- Clinical Leadership: Former President of the Academy of Medical Sciences, recognised for innovative clinical service design and policy
- Global Health Payer **Expertise:** Influential roles at BUPA and past advisor to Google DeepMind



Dr Karen Smith **Non-Executive Director**

- Biopharma Authority: 100+ clinical trials and 20+ regulatory approvals
- Strategic Growth: Former Chief Medical Officer and Global Head of R&D at Jazz Pharma; drove growth through acquisitions & partnerships



Dr Mohit Kaushal **Non-Executive Director**

- Health IT Strategist: Key role in Oak Street Health's \$10.6B acquisition by CVS Health; experienced driving growth in tech-centric organisations
- Health Policy Expert: Served in Obama administration's Health IT task force; Adjunct Professor at Stanford



Dr Michael Winlo Managing Director

- Clinical Data Expertise: Ex-Palantir healthcare lead, merging Medical Doctor and Stanford MBA credentials to drive health innovation
- Startup Scaling: Utilising digital technology, frontline medical experience and business network to drive growth





















EMYRIA'S GLOBAL CLINICAL ADVISORS

Experts in mental health, psychedelic-assisted therapies, neuroscience and drug development



Dr Jon Laugharne MBBS, FRCP (UK), FRANZCP

Consultant psychiatrist and specialist in treatment of psychological trauma. Trained psychedelic therapist and MDMA-assisted therapy researcher



Claire Kullak BSc (Nursing)

Trauma-informed mental health nurse, psychotherapist and nationally recognised EMDR trainer. Trained in psychedelic-assisted therapy and MDMA researcher



Dr Ben Sessa MBBS(MD), MRCPsych

Specialist psychiatrist and psychedelic and cannabis researcher. Has led studies on LSD, psilocybin, and MDMA over 15 years, significantly advancing psychedelic-assisted therapy and mental health treatment



Dr Jenny Morgan MBBS, FRANZCA

Consultant pain specialist with 25 years of experience managing complex chronic pain conditions



Dr David Gunn MBBS, FRACGP

Cannabinoid expert with special interest in the management of substance abuse & mental health treatment



Prof Matt Piggott BSc, PhD (Chemistry)

Professor and specialist in amphetamine chemistry and novel drug design



Dr Jeremy Tannenbaum BSc, MBBS (Hons), FRANZCP

Dual specialist in Pain Medicine and Psychiatry. Researched psychedelics at Imperial College, London



Prof Mat-Martin Iverson Professor, BSc Alta., PhD Br.Col.

Neuropharmacologist and oxytocin expert





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