



# Psilocybin Microdose Safety Study 2024

PILOT STUDY CONDUCTED THROUGH HCU EDUCATION LTD, A COLORADO  
EDUCATIONAL NON-PROFIT USING 100% VOLUNTEER LABOR AND PARTICIPANTS

## HCU Education Ltd

non-profit professional society  
supporting care professionals working with  
plant-based medicines through education  
and research

### Branches

Cannabis Clinicians Colorado  
Church of Higher Consciousness UnLtd  
HCU Mushrooms



Cannabis  
Clinicians  
Colorado  
Coscc.org



# Responsible psychedelic personal use



**HCU Mushrooms** – A Private Member Association for Colorado adults interested in access to LAB TESTED medicinal mushroom microdose formulas.

**GOAL:** create a standard for self-administered microdosing while the State develops a program for supervised treatments with larger doses.



## Structure:

Private Member Association offering lab tested psilocybin microdose formulas, advice from health professionals, and referrals to therapists, psychedelic guides, and psychedelic-friendly affiliates.

All formulas provided for self-administered personal use only as part of member-to-member counseling and care interactions.

# What is Microdosing?

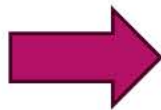
- Microdosing is the practice of **taking small doses of your favorite psychedelic**, one or more days per week.
- Microdosing is **Not normally done every day**, but on a **few-days-on / few-days-off schedule**. This clears receptors and helps prevent issues with tolerance and unwanted side-effects.
- Microdosing is **Not something you do forever**. Generally, you use it for a few weeks, months, or years, with occasional breaks.

# Why Microdose?

- **General Wellness** - Self-guided microdosing as a supplement
- **Specific Issue** - Work on a health problem. Self-guided or with some support. (Anxiety, PTSD, Depression, Addiction, Migraines, Pain)
- **Supported Use** - Work with a therapist or counselor while microdosing
- **Preparation for Hero Dose** – Full trip with a psychedelic guide in the future
- **Spiritual / Ceremonial** - Use as a sacrament alone or in a group

# What is Sub-psychedelic?

- Microdosing is **sub-psychedelic**.
- You may feel something – emotionally lighter, mentally brighter, or a little dizzy - but you won't have hallucinations or anything close to a full-on trip.



# Psychoactive Vs Psychedelic

Root word Psyche (n) Greek origin,

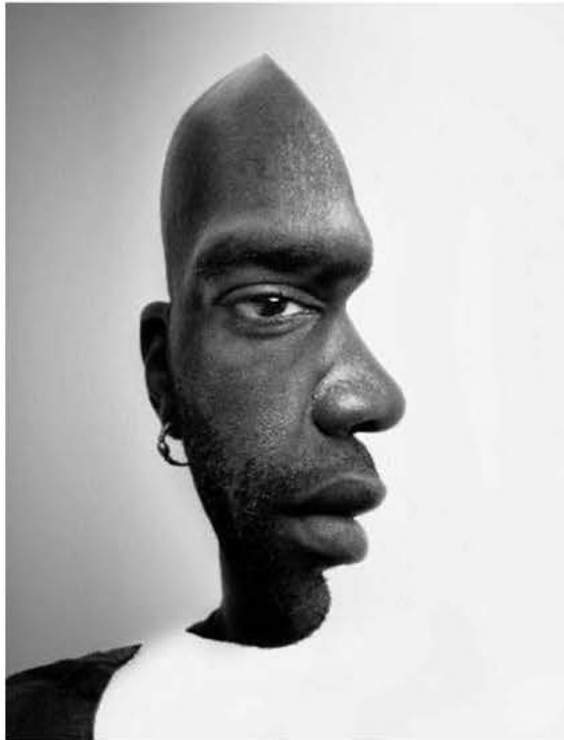
- a. The mind, soul, spirit or personality
- b. The totality of elements forming the mind



**Psychoactive substance** –  
something that can change your  
mental state.

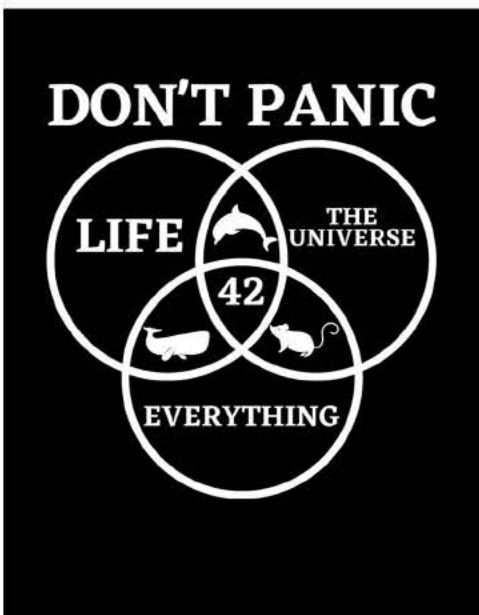
*Examples: caffeine, sugar, tobacco,  
cannabis, opiates, alcohol, etc.*

# Psychedelic Substance



a substance that is both psychoactive - change your mental state - *and can sometimes produce hallucinations*

# Thanks for All the Fish, Douglas Adams



“This is what the Hitchhiker’s Guide to the Galaxy has to say about alcohol:

Go to it, and good luck.”

Basically, that’s what CO state rules say about psychedelics

# Colorado Current Rules

## Personal Use

- Find someone with psychedelics
- Have them “gift” you some
- Go to it, and good luck.

## Regulated Use

- Find registered Psychedelic Guide
- Pay \$2K-\$3K for 25mg Hero Dose
- Go to it, and good luck.



Psychedelic Medicine: Therapeutic applications and implications for future research

# Cardiovascular safety of psychedelic medicine: current status and future directions

By Agnieszka Wsól<sup>1</sup> et al

Received: 29 August 2023 / Revised: 2 October 2023 / Accepted: 2 October 2023 / Published online: 24 October 2023 © The Author(s) 2023

## Abstract

Psychedelics are powerful psychoactive substances that alter perception and mood processes. Their effectiveness in the treatment of psychiatric diseases was known before their prohibition. An increasing number of recent studies, due to the indisputable resurgence of serotonergic hallucinogens, have shown their efficacy in alleviating depression, anxiety, substance abuse therapies, and existential distress treatment in patients facing life-threatening illness. Psychedelics are generally considered to be physiologically safe with low toxicity and low addictive potential. However, their agonism at serotonergic receptors should be considered in the context of possible serotonin-related cardiotoxicity (5-HT<sub>2A/2B</sub> and 5-HT<sub>4</sub> receptors), influence on platelet aggregation (5-HT<sub>2A</sub> receptor), and their proarrhythmic potential. The use of psychedelics has also been associated with significant sympathomimetic effects in both experimental and clinical studies. Therefore, the present review

**Note that 3 of the studies reviewed in this paper used a 1mg psilocybin dose as an “inert placebo”. Yet Oregon requires a trip-sitter for that same 1mg dose.**



# Examples of Colorado Mushrooms



**Altitude Consulting**

Customer # [redacted] Sample # [redacted]  
 Client Name: HCU Mushrooms  
 Sample Address: [redacted]  
 Phone: [redacted]  
 Email: [redacted]  
 Website: [redacted]

Customer: HCU Mushrooms

Address: [redacted]

Sample ID: B.A.P.E 4/8/24

Matrix: Biomass

Labnumber: 24D0073-05



## Psychedelics and Alkaloids Profile

Test Conditions: 18°C  
 Extraction Technician: CB  
 Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
4/15/2024	4/16/2024

Test Method: Psychedelics and Alkaloid Potency by HPLC	Results		
	LOD (mg/g)	%	mg/g
Norbaeocystin	<0.10		
Aeruginascin	<0.10		
Norpsilocin		0.01	0.1
5-methoxy DMT	<0.10		
4-hydroxy TMT (iodide)	<0.10		
5-hydroxy DMT (hydrochloride)	<0.10		
5-methoxy NMT	<0.10		
Baeocystin	<0.10		
N,N-Dimethyltryptamine	<0.10		
Psilocybin		0.18	1.8
Psilocin		0.18	1.8

Measurement uncertainty has not been factored into reported values. Blank results indicate the compound was below the limit of detection.



**Altitude Consulting**

Customer # [redacted] Sample # [redacted]  
 Client Name: HCU Mushrooms  
 Sample Address: [redacted]  
 Phone: [redacted]  
 Email: [redacted]  
 Website: [redacted]

Customer: HCU Mushrooms

Address: [redacted]

Sample ID: B+ 4/8/24

Matrix: Biomass

Labnumber: 24D0073-03



## Psychedelics and Alkaloids Profile

Test Conditions: 18°C  
 Extraction Technician: CB  
 Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
4/15/2024	4/16/2024

Test Method: Psychedelics and Alkaloid Potency by HPLC	Results		
	LOD (mg/g)	%	mg/g
Norbaeocystin	<0.10		
Aeruginascin	<0.10		
Norpsilocin	<0.10		
5-methoxy DMT	<0.10		
4-hydroxy TMT (iodide)	<0.10		
5-hydroxy DMT (hydrochloride)	<0.10		
5-methoxy NMT	<0.10		
Baeocystin		0.02	0.2
N,N-Dimethyltryptamine	<0.10		
Psilocybin		0.28	2.8
Psilocin		0.05	0.5

Measurement uncertainty has not been factored into reported values. Blank results indicate the compound was below the limit of detection.



**Tragic, but sadly normal results**

# Examples of Colorado Mushrooms



Customer # \_\_\_\_\_ Sample # \_\_\_\_\_  
 Duct Name: HCU Altitude Consulting  
 Sample Name: Shiva Lingam (24073-04)  
 Volume: 24073-04  
 Date: 3/1/24  
 Rev: 02/24

Customer: HCU Mushrooms

Address: [Redacted]

Sample ID: Shiva Lingam 3/8/24

Matrix: Biomass

Labnumber: 24D0073-04



## Psychedelics and Alkaloids Profile

Test Conditions: 18°C  
 Extraction Technician: CB  
 Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
4/15/2024	4/16/2024

Test Method: Psychedelics and Alkaloid Potency by HPLC	Results		
	LOD (mg/g)	%	mg/g
Norbaeocystin	<0.20		
Aeruginascin		0.02	0.2
Norpsilocin	<0.20		
5-methoxy DMT	<0.20		
4-hydroxy TMT (Iodide)	<0.20		
5-hydroxy DMT (hydrochloride)	<0.20		
5-methoxy NMT	<0.20		
Baeocystin		0.04	0.4
N,N-Dimethyltryptamine	<0.20		
Psilocybin		2.32	23.2
Psilocin		0.08	0.8

Measurement uncertainty has not been factored into reported values. Blank results indicate the compound was below the limit of detection.

**Our grower – a Hero Dose per gram of dried fruiting body. DANGER for beginners.**

**ALWAYS USE TESTED MUSHROOMS / PRODUCTS**





Customer: HCU Mushrooms

Address: [Redacted]

Sample ID: HCU Foundation Capsule

Labnumber: 23L0094-02 Total mass or volume per unit (g or mL): .3295

## Psychedelics and Alkaloids Profile

Test Conditions: 18°C  
Extraction Technician: SH  
Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
12/18/2023	12/19/2023

Test Method: Psychedelics and Alkaloid Potency by HPLC	Results			
	LOD (mg/g)	%	mg/g	mg/Capsule
Norbaeocystin		0.006	0.063	0.021
Mescaline (hydrochloride)	<0.20			
Aeruginascin	<0.060			
Norpsilocin	<0.060			
5-methoxy DMT	<0.060			
4-hydroxy TMT (iodide)	<0.060			
5-hydroxy DMT (hydrochloride)	<0.060			
5-methoxy NMT	<0.060			
Baeocystin		0.01	0.103	0.034
N,N-Dimethyltryptamine	<0.060			
Psilocybin		0.36	3.57	1.18
Psilocin		0.02	0.160	0.053

### Results Explained

- Each capsule contains just over 1 mg of psilocybin
- Baeocystin and Norbaeocystin are other natural alkaloids found in the mushrooms

Lab results for HCU Mushrooms Foundation Formula

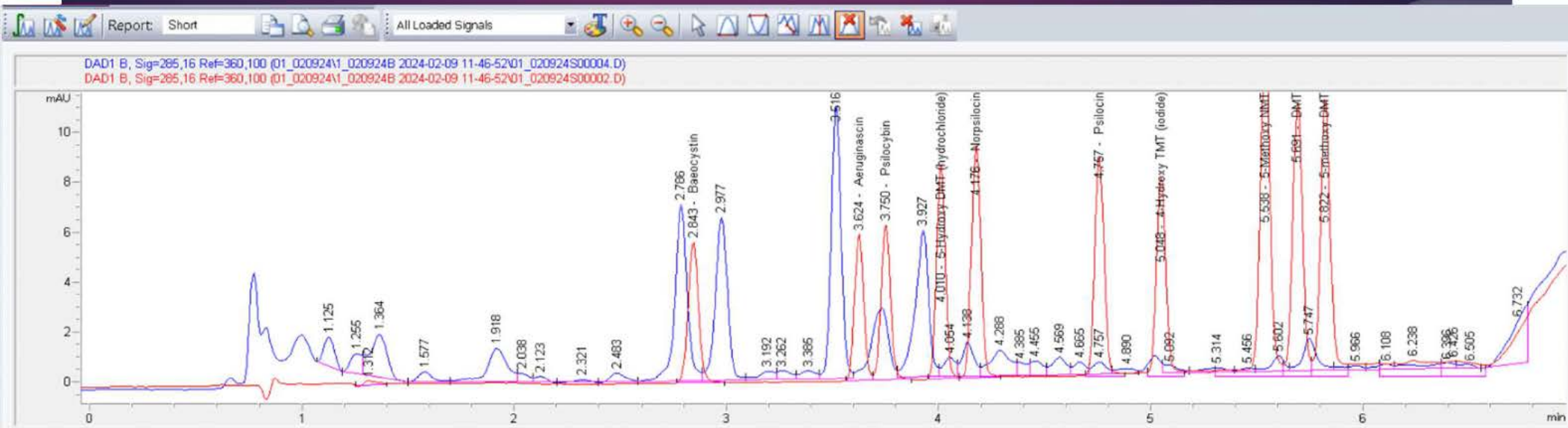


# Brighteners – Brain & Body

Functional mushrooms sourced from Hamilton's Mushrooms, Carbondale CO



# Brighteners – Functional + Magic mushrooms



Functional mushrooms also have alkaloid spikes. Dose estimated using math.  
(We're just as amused by the DMT spike)



# Bee Brightener – Oral Absorption

Dual-extract Shiva Lingam powder dissolved into local Colorado farm-to-table honey.

Buccal membrane absorption by-passes time-consuming digestion.

Fast-onset (5-15 minutes)  
Short duration (2-3 hours)



Customer: HCU Mushrooms  
Address: [Redacted]  
Sample Name: Bee Brightener 8/8/24  
Matrix: Edible  
Lab Number: 24080074-1

Test Conditions: 21°C  
Extraction Technician: CB  
Analytical Chemist: CB

## Psychedelic Profile

Extraction Date	Analysis Date
08/14/24	08/15/24

Test Method: Psychedelics and Alkaloids Potency by HPLC		Results		
Compound	LOD (mg/g)	%	mg/g	mg/Stick
4-hydroxy TMT (iodide)	<0.018	N.D.	N.D.	N.D.
5-hydroxy DMT (hydrochloride)	<0.018	N.D.	N.D.	N.D.
5-methoxy DMT	<0.018	N.D.	N.D.	N.D.
5-methoxy NMT	<0.018	N.D.	N.D.	N.D.
Aeruginascin	<0.018	N.D.	N.D.	N.D.
Baeocystin	<0.018	N.D.	N.D.	N.D.
N,N-Dimethyltryptamine	<0.018	N.D.	N.D.	N.D.
Norbaeocystin	<0.018	N.D.	N.D.	N.D.
Norpsilocin	<0.018	N.D.	N.D.	N.D.
Psilocin	<0.018	N.D.	N.D.	N.D.
Psilocybin	<0.018	0.023	0.231	0.764

Total Alkaloids		Results	
Category	%	mg/g	mg/Stick
Maximum Equivalent Psilocybin	0.023	0.231	0.764
Maximum Equivalent Psilocin	0.017	0.166	0.549
Total weight per Stick (g)			3.3065

# How to Microdose

- **Meet with a health pro** or psychedelic guide to see if it's appropriate for you. *If you're allergic to mushrooms or on certain medications, it might not be.*
- **Start with a measured dose product.** *Hcu Mushrooms and Microdose Mondays are good places to start.*
- **Figure out your schedule.** Mushroom micro-doses are *\*not\** normally taken every day. They are taken on a schedule of a few days on / a few days off.
- **Record your results**



# Becoming an HCU Mushrooms Member

Total cost \$150 start-up includes:

- Annual Membership fee (\$42)
- Health Professional Visit 1: In-person or Zoom intake
- 2 weeks of starter products:
  - 6 Foundation & 6 Balance Capsules
  - Sample packs of Brain & Body Brighteners
  - Bee Brightener honey stick
  - Tracker to record results
- Health Pro Visit 2: Follow-up in-person or phone call
- Order online for continued self-administration





**How to convince State this is Safe?**

**HCU Mushrooms 1<sup>st</sup>  
Pilot Safety Study  
April, 2024**



# Quick & Dirty Study Protocol

- ⌚ Informed Consent; Review of entry criteria.
- ⌚ Medical History/Concomitant Medications
- ⌚ Emotional state questionnaire
- ⌚ WAVi QEEG, baseline
- ⌚ Study medication given
- ⌚ Stroop Cognition Test
- ⌚ Current Conditions Survey, Personal psychedelic history
- ⌚ Patient queried if they “felt effects” of study medication
- ⌚ WAVi QEEG repeated
- ⌚ Stroop Cognition Test repeated
- ⌚ Emotional state questionnaire repeated.
- ⌚ Subject queried about mental state and adverse events prior to release.
- ⌚ Next Day: Follow-up phone call

# Study Product Used



## HCU Foundation Capsules

- Shiva Lingam magic mushroom
- AL-Carnitine – amino acid to increase blood flow to brain / facilitate psilocybin crossing blood-brain barrier

# Study Medication Test Results



## Psychedelics and Alkaloids Profile

Test Conditions: 18°C

Extraction Technician: CB

Analytical Chemist: CB

Extraction  
Date(s)

3/22/2024

Analysis  
Date(s)

3/25/2024

Test Method: Psychedelics and Alkaloid Potency by HPLC	Results			
	LOD (mg/g)	%	mg/g	mg/Capsule
Norbaeocystin		0.02	0.191	0.025
Aeruginascin	<0.20			
Norpsilocin	<0.20			
5-methoxy DMT	<0.20			
4-hydroxy TMT (iodide)	<0.20			
5-hydroxy DMT (hydrochloride)	<0.20			
5-methoxy NMT	<0.20			
Baeocystin		0.02	0.177	0.023
N,N-Dimethyltryptamine	<0.20			
Psilocybin		0.74	7.36	0.957
Psilocin		0.08	0.818	0.106

Measurement uncertainty has not been factored into reported values. Blank results indicate the compound was below the limit of detection.

Capsules made with Shiva Lingam mushroom grown by Travis Fluck,  
Denver Mushroom Cooperative

# Health & Medication review

## 1. Health history:

- Physical health
- Pain – types and current level
- Mental health
- Current emotional state questionnaire

## 2. Previous psilocybin use – when was last dose?

## 3. Medication review



# Subjects



AGE	Screening / History			Stroop Test				
	Major Health Issues	RX Meds?	Emotional State	Stroop Test		Shapes		
			Pre dose	Post dose	Pre dose	Post dose	Pre dose	Post dose
44	Recent brain aneurysm 2/24/24, TIA, 04/06/2024 reports dizziness, memory loss, cognitive impairment - mild	Yes	Relaxed, Energetic	Focused				
35	Military Vet, IBS, Anxiety / Depression, Migraines, Concussion 2021	Yes	Relaxed, Energetic	Energized	36.2	22.09	3 errors	No errors
52	Multiple past concussions, perimenopause, ADHD	Yes	Anxious, tense	Relaxed, Happy	17.2	17.9	17.2 No errors	17.9, No errors
66	Biotoxin exposure caused speech disability 2019 with re-exposure in past 6 months	Yes	Flat affect, aphasic	Engaged, fluid speech	53.58	33.33	1 error	11 errors
35	Anxiety, depression in past	No	Happy, relaxed	Happy, relaxed	21.9	20.64	No errors	No errors
36	Kidney transplant 2007, significant HX depression	Yes	Calm, relaxed	Calm, relaxed	32.58	35.24	No errors	No errors
30	PTSD in past, no current symptoms (mild headache- tight WAVI helmet)	No	Happy, relaxed	Happy, slight headache	31.9	29.32	1 errors	No errors

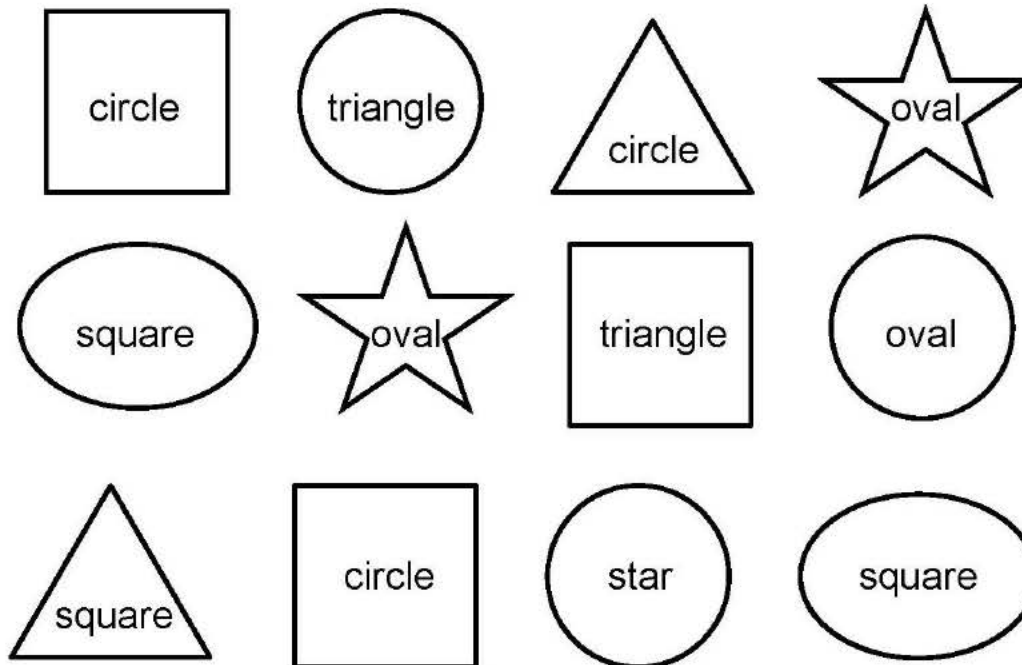
# Stroop Cognition test

## STROOP TEST MINI CARDS

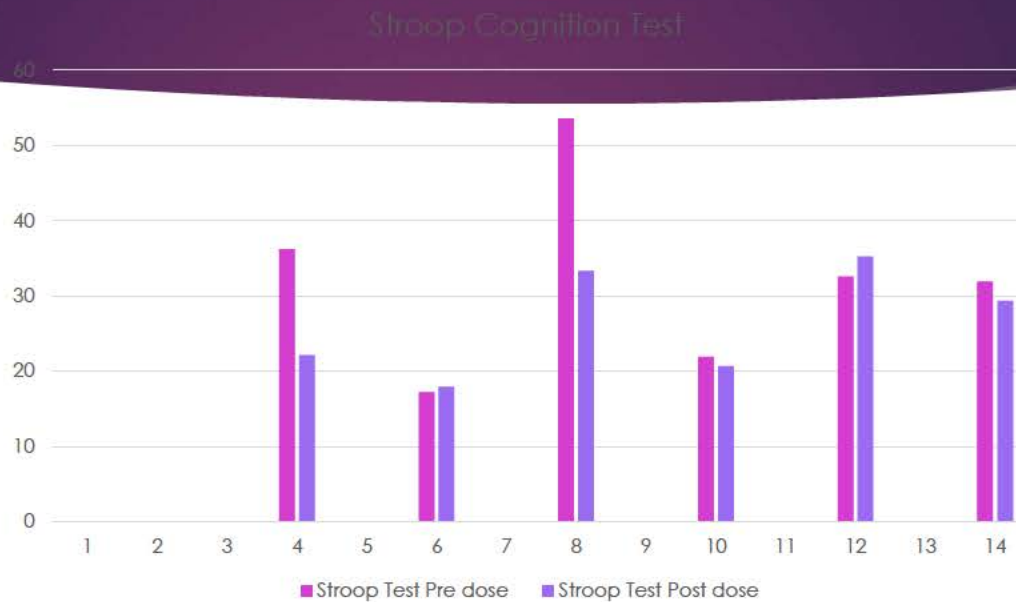
RED	BLUE	GREEN	BLUE	BLACK
YELLOW	GREEN	ORANGE	GREEN	RED
PINK	BLACK	BROWN	YELLOW	GRAY
BLUE	RED	GREEN	PINK	BROWN
ORANGE	BLACK	BLUE	GREEN	RED

# Colorblind stroop test

## TEST 2



# Stroop Test Data

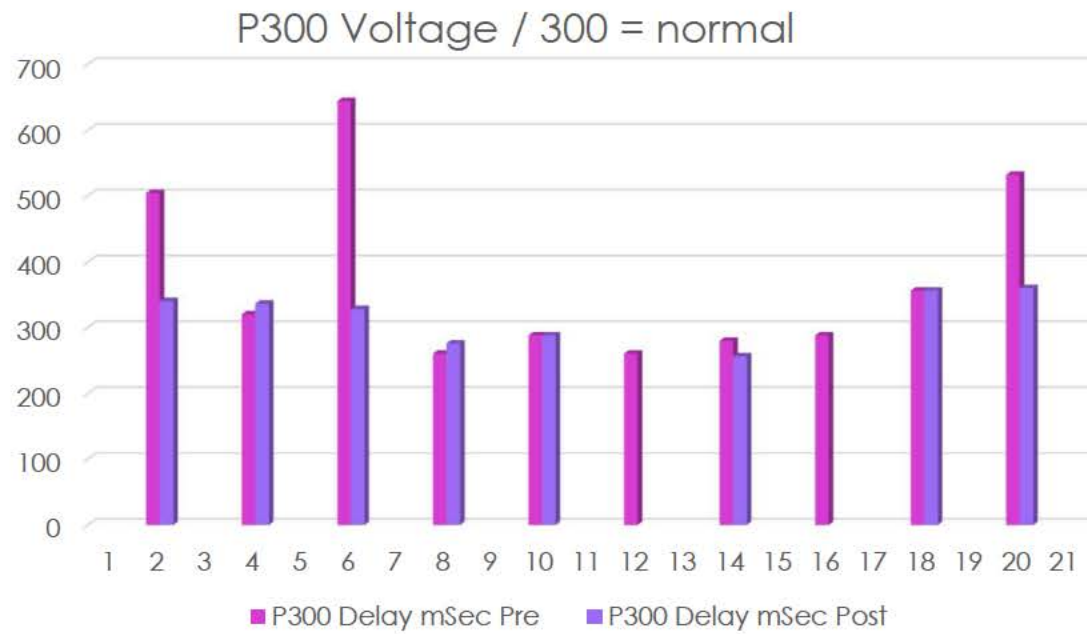


\*Subject 8 had 11 errors Post Dose. No other subject had ANY errors Post Dose

# WAVI QEEG – what a charming hat!



# WAVI QEEG P300 Data



# Well People did Well

## WAVi Neurological Report



Male, 35 — ID: N/A — Generated: 4/30/2024 11:05 AM

### Performance Assessments

Physical Reaction Time	304 (=67) ms	288 (=47) ms	289–359 ms
Trail Making Test A	95 sec	60 sec	33–49 sec
Trail Making Test B	117 sec	84 sec	52–96 sec

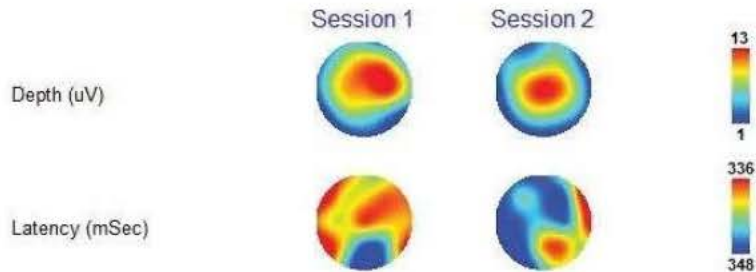
### Evoked Potentials (Best Central Parietal)

Audio P300 Delay	320 ms	336 ms	272–320 ms
Test/Retest Change	-	5%	=6%
Audio P300 Voltage	13.5 $\mu$ V	13.2 $\mu$ V	10–20 $\mu$ V
Test/Retest Change	-	-2%	=12%

### State (Power)

CZ Eyes Closed Theta/Beta	1.1	1.3	0.8–2.8
F3/F4 Eyes Closed Alpha	0.9	0.9	0.8–1.2

### Maximum P300 Test Depth ( $\mu$ V) and Latency (msec) — Topo scale referenced to Session 2



Millisecond range: 240 - 500

LOCATIONS WITH P300 VOLTAGES BELOW 3  $\mu$ V MAY PRODUCE UNRELIABLE LATENCIES

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## WAVi Neurological Report



— Female, 30 — ID: N/A — Generated: 4/30/2024 11:35 AM

### Performance Assessments

Physical Reaction Time	301 (=52) ms	359 (=69) ms	275–345 ms
Trail Making Test A	37 sec	49 sec	32–48 sec
Trail Making Test B	62 sec	56 sec	51–95 sec

### Evoked Potentials (Best Central Parietal)

Audio P300 Delay	280 ms	256 ms	267–315 ms
Test/Retest Change	-	-8%	=6%
Audio P300 Voltage	18.1 $\mu$ V	11.3 $\mu$ V	11–21 $\mu$ V
Test/Retest Change	-	-37%	=12%

### State (Power)

CZ Eyes Closed Theta/Beta	0.7	0.7	0.8–2.8
F3/F4 Eyes Closed Alpha	1.1	1.0	0.8–1.2

### Maximum P300 Test Depth ( $\mu$ V) and Latency (msec) — Topo scale referenced to Session 2



Millisecond range: 240 - 500

LOCATIONS WITH P300 VOLTAGES BELOW 3  $\mu$ V MAY PRODUCE UNRELIABLE LATENCIES



# Head Injury People did Even Better

## WAVi Neurological Report

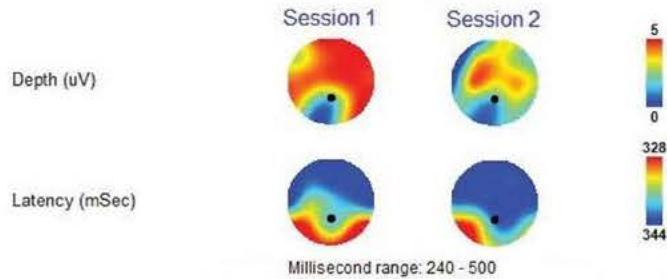
Female, 52 — ID: N/A — Generated: 4/27/2024 10:51 AM



Screening Scores	Session 1 (4/26/2024)	Session 2 (4/26/2024)	Ref. Range (50 yrs)
<b>Performance Assessments</b>			
Physical Reaction Time	312 (=60) ms	265 (=55) ms	332-402 ms
Trail Making Test A	37 sec	45 sec	35-51 sec
Trail Making Test B	53 sec	104 sec	59-103 sec
<b>Evoked Potentials (Best Central Parietal)</b>			
Audio P300 Delay	644 ms	328 ms	288-336 ms
Test/Retest Change	-	-49%	=6%
Audio P300 Voltage	8.1 $\mu$ V	5.2 $\mu$ V	9-19 $\mu$ V
Test/Retest Change	-	-35%	=12%
<b>State (Power)</b>			
CZ Eyes Closed Theta/Beta	0.3	0.5	0.8-2.8
F3/F4 Eyes Closed Alpha	0.8	0.9	0.8-1.2

### Maximum P300 Test Depth ( $\mu$ V) and Latency (msec) — Topo scale referenced to Session 2

BLACK DOTS INDICATE LOCATIONS WITH LESS THAN 15 CLEAN P300 RARE RESPONSES.  
TOPO COLORS AROUND DOTS MAY BE AFFECTED.



LOCATIONS WITH P300 VOLTAGES BELOW 3  $\mu$ V MAY PRODUCE UNRELIABLE LATENCIES

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1mg dose subject

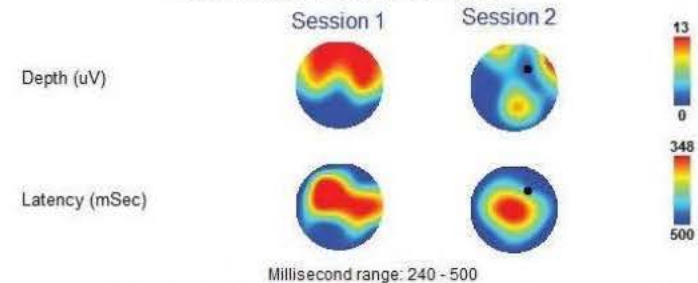
## WAVi Neurological Report

Male, 44 - recent TIA — ID: N/A — Generated: 4/25/2024 6:04 PM



Screening Scores	Session 1 (4/25/2024)	Session 2 (4/25/2024)	Ref. Range (25 yrs)
<b>Performance Assessments</b>			
Physical Reaction Time	261 (=58) ms	294 (=43) ms	260-330 ms
Trail Making Test A	N/A	53 sec	31-47 sec
Trail Making Test B	N/A	57 sec	49-93 sec
<b>Evoked Potentials (Best Central Parietal)</b>			
Audio P300 Delay	504 ms	340 ms	262-310 ms
Test/Retest Change	-	-48%	=6%
Audio P300 Voltage	13.1 $\mu$ V	13.5 $\mu$ V	11-21 $\mu$ V
Test/Retest Change	-3%	-	=12%
<b>State (Power)</b>			
CZ Eyes Closed Theta/Beta	0.5	0.3	0.8-2.8
F3/F4 Eyes Closed Alpha	1.1	0.8	0.8-1.2

BLACK DOTS INDICATE LOCATIONS WITH LESS THAN 15 CLEAN P300 RARE RESPONSES.  
TOPO COLORS AROUND DOTS MAY BE AFFECTED.



LOCATIONS WITH P300 VOLTAGES BELOW 3  $\mu$ V MAY PRODUCE UNRELIABLE LATENCIES

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5mg dose subject



# Comparisons - Don't Play Football

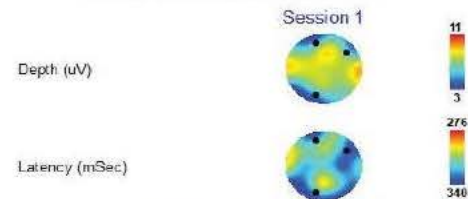
## WAVi Neurological Report

Psychiatric Guide—Male, 44 — ID: — Generated: 4/21/2024 11:33

Screening Scores	Session 1 (4/21/2024)	Ref. Range (43 yrs)
<b>Performance Assessments</b>		
Physical Reaction Time	255 (=40) ms	318–386 ms
Trail Making Test A	64 sec	34–50 sec
Trail Making Test B	70 sec	56–109 sec
<b>Evoked Potentials (Best Central Parietal)</b>		
Audio P300 Delay	268 ms	283–331 ms
Test/Retest Change	–	=6%
Audio P300 Voltage	8.9 $\mu$ V	10–20 $\mu$ V
Test/Retest Change	–	=12%
<b>State (Power)</b>		
CZ Eyes Closed Theta/Beta	2.9	0.8–2.8
F3/F4 Eyes Closed Alpha	1.0	0.8–1.2

### Maximum P300 Test Depth ( $\mu$ V) and Latency (msec)

BLACK DOTS INDICATE LOCATIONS WITH LESS THAN 15 CLEAN P300 RARE RESPONSES  
TOP COLORS AROUND DOTS MAY BE AFFECTED.



Millisecond range: 240 - 500

LOCATIONS WITH P300 VOLTAGES BELOW 3  $\mu$ V MAY PRODUCE UNRELIABLE LATENCIES

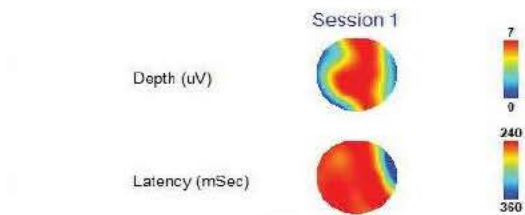
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## WAVi Neurological Report

Football — Male, 67 — ID: EKH-208 — Generated: 4/8/2019 7:58 AM

Screening Scores	Session 1 (5/8/2019)	Ref. Range (63 yrs)
<b>Performance Assessments</b>		
Physical Reaction Time	312 (=80) ms	373–445 ms
Trail Making Test A	93 sec	44–60 sec
Trail Making Test B	280 sec	74–118 sec
<b>Evoked Potentials (Best Central Parietal)</b>		
Audio P300 Delay	356 ms	303–351 ms
Test/Retest Change	–	=6%
Audio P300 Voltage	9.1 $\mu$ V	8–18 $\mu$ V
Test/Retest Change	–	=12%
<b>State (Power)</b>		
CZ Eyes Closed Theta/Beta	0.9	0.8–2.8
F3/F4 Eyes Closed Alpha	0.7	0.8–1.2

### Maximum P300 Test Depth ( $\mu$ V) and Latency (msec)



Millisecond range: 240 - 500

LOCATIONS WITH P300 VOLTAGES BELOW 3  $\mu$ V MAY PRODUCE UNRELIABLE LATENCIES

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With no Adverse Events seen from microdosing, we looked at 2 IRL comparison subjects. Left is a long-term psilocybin user and right is former pro football player.



# Next round of Pilot Safety Brain Scans

- **Scheduled for January 2025**
- Volunteer subject recruitment will begin December 2024
- Un-funded study – you will not be paid. You will get copy of scan.
- Give us your email at our booth if interested
- Testing will use HCU capsules and Bee Brightener honey stix
- Different routes of administration to see if it produces different results.



**HOW TO USE**  
Bend and squeeze then open top of the stick and use by mouth or add to your favorite beverage as a sweetener.

**INGREDIENTS**  
Shiva Lingam  
Colorado honey  
Trace of Vitamin C for flavor

**RAPID RELIEF**  
This is a fast onset and short duration formula intended for personal use.



# Intro to Psychedelic Neuroscience Slides will be on HCUmushrooms.org soon

- ▶ [HCUmushrooms@gmail.com](mailto:HCUmushrooms@gmail.com)
- ▶ @HCUmushrooms
- ▶ Clinic 720-443-2420
- ▶ Link to slides will be posted on HCUmushrooms.org

