The Bristol Imperial MDMA for Alcoholism (BIMA) Study

The World's First Addictions Study with MDMA-Assisted Psychotherapy

Ben Sessa

Consultant Child and Adolescent and Addictions Psychiatrist
Approved MDMA and Psilocybin Therapist
Clinical Lead at the Bristol Psychedelic Clinic
CMO, AWAKN Life Sciences

Psychedelics in Psychiatry and Psychotherapy (ISPPP)

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Unstable Attachments.... Unstable Psychological and Social Environments....







- Physical, Sexual, Emotional abuse and neglect in childhood
- Feeling unloved, unsafe and unlovable
- Parental criminality
- Parental mental illness
- Domestic Violence
- Parental Substance Misuse
- Unemployment
- Poor housing
- Race and social exclusion
- Poor education











Fear, Trauma and the Developing Brain: The Prefrontal Cortex versus The Amygdala



Trauma

Identity Formation



Self Narrative:

"I'm a good person"
"I can achieve"
"I'm loved & lovable"

World Narrative:

"People can be trusted" "The world is a safe place" "People will help me"

Identity Formation



Self Narrative:

"I'm a bad person"
"I cannot achieve"
"I am unlovable"

World Narrative:

"Trust no one"

"The world is

dangerous"

"People will hurt me"

Identity Formation

Insecure Attachment

Self Narrative:
block out the world Narrative:
block out the world Narrative:
"I cannot ach with sedating e world is
"I am unlovable"

Substances ple will hurt me"



The Clinical, Social and Financial Burden of Alcohol Dependence

- One quarter of adults consume alcohol harmfully.
- 6% of men and 2% of women are dependent.
- Self-medication for Undiagnosed PTSD.
- Costs around £20 billion a year in England alone.
- · 'The UK's drinks industry is the US's N.R.A.'.

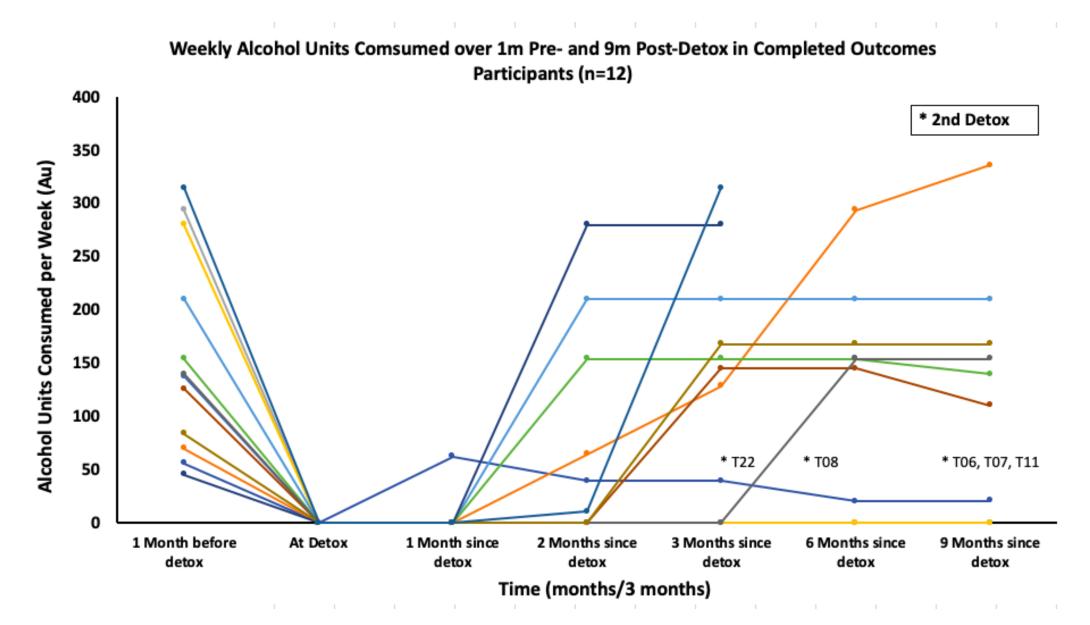
How well is modern psychiatry doing to manage alcohol use disorder?

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Roughly 90% of people will relapse within 4 years after completing treatment.

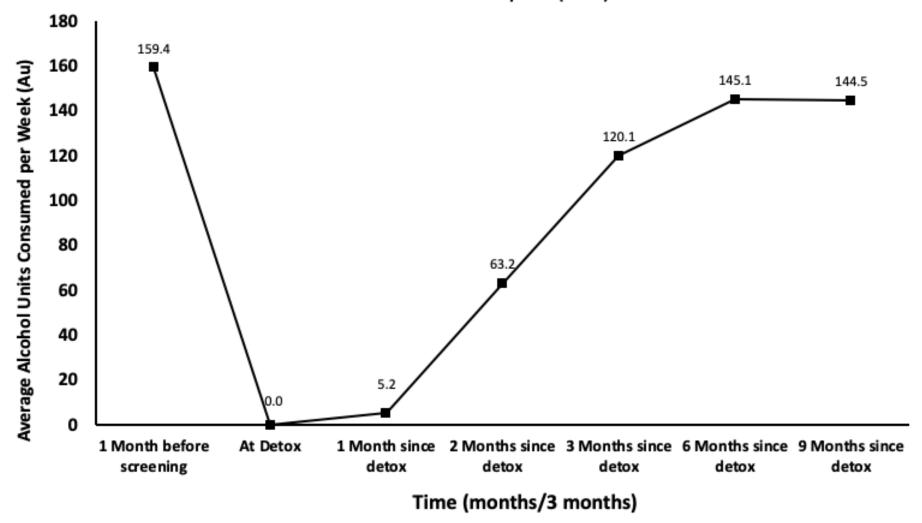
> National Institute on Alcohol Abuse and Alcoholism. (1989). Relapse and Craving.

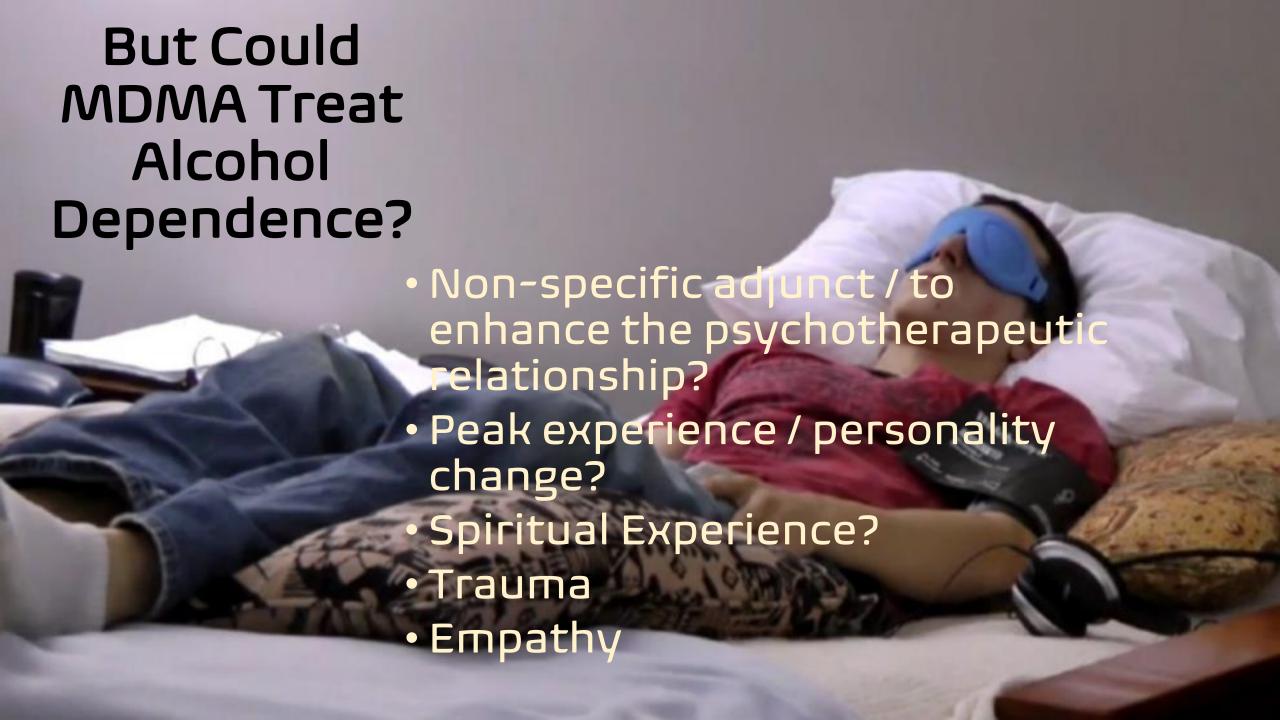
The OUTCOMES (Observational) Study:



The OUTCOMES (Observational) Study:

Average Weekly Alcohol Units Comsumed over 1m Pre- and 9m Post-Detox in Completed Outcomes Participants (n=12)





Action in the brain:

Effects

↓ aggression and defensiveness

↓ depression

Increased Serotonin: (POSITIVE MOOD + **CREATIVE** THINKING)

5-HT_{1A} 5-HT_{1B} 5-HT_{2A}

 Alterations in perception of meaning † level of alertness

↑ self-confidence

Jfear (at the amygdala)

Increased Dopamine and Noradrenaline (STIMULATION)

↑ arousal † conscious registration of external stimuli

↓ anxiety

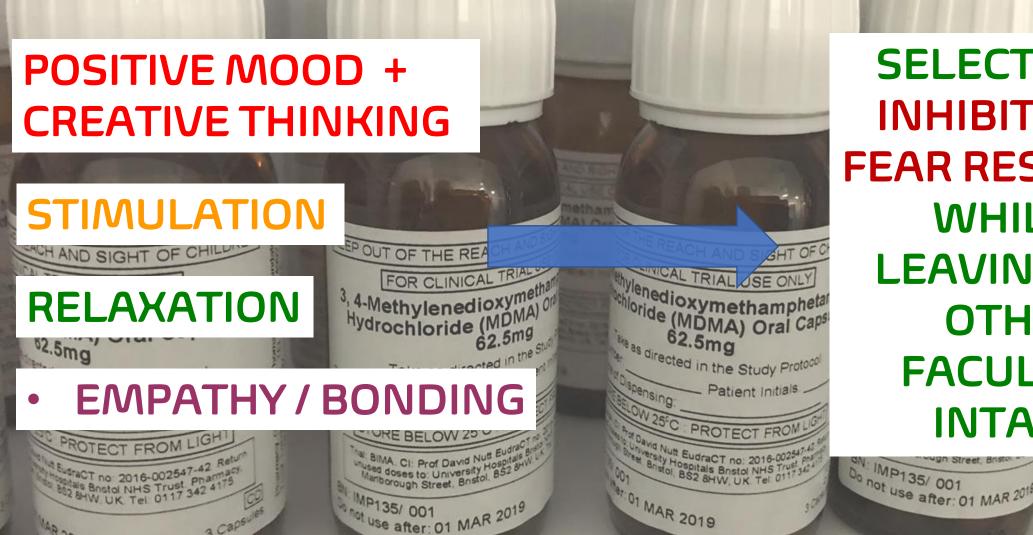
† calmness and relaxation

Increased alpha-2 activity

Release of oxytocin

(RELAXATION) At the hypothalamus (EMPATHY / BONDING)

How Does Clinical MDMA Work?



SELECTIVELY INHIBITS THE **FEAR RESPONSE WHILST LEAVING THE OTHER FACULTIES** INTACT.

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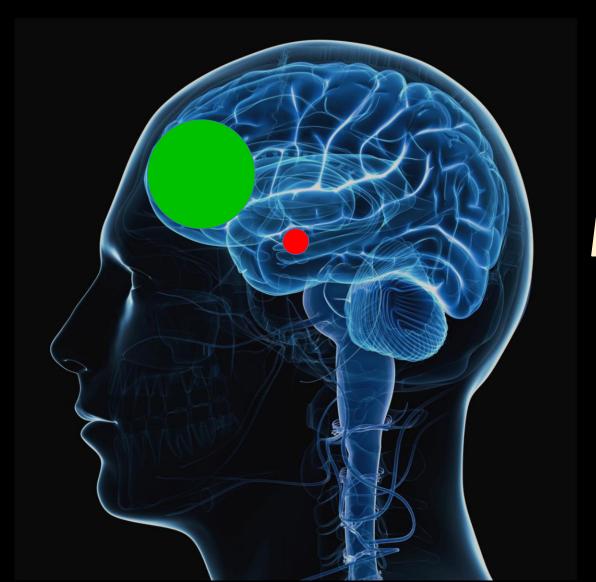
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Fear, Trauma and the Developing Brain: The Prefrontal Cortex versus The Amygdala



Trauma

Fear, Trauma and the Developing Brain: The Prefrontal Cortex versus The Amygdala



MDMA

The Bristol-Imperial MDMA-Alcoholism ('BIMA') Study

- Open-Label Safety and Tolerability
- 8-week course of psychotherapy
- Male-Female co-therapist pair
- Two MDMA Sessions
- 125mg + 62.5mg MDMA
- Overnight stay

Ben Sessa, Laurie Higbed, Tim Williams, Claire Durant, Steve O'Brien, Chloe Sakal and David Nutt

Imperial College London and Bristol University



The Bristol MDMA-Alcoholism Project 'BIMA'

2-weeks pre-detox	Screening, consent and eligibility interview					
Alcohol Detox	Seven to Ten Days, carried out by local Community Alcohol Detox Team. Followed by baseline assessments.					
1 week post detox	Session 1	60-minute therapy session.				
2 weeks post detox	Session 2	60-minute therapy session				
3 weeks post detox	Session 3	MDMA-assisted therapy session 1 (~6-8 hours)				
	Session 4	Next day follow-up session (60 min) then daily phone calls 4 days.				
4 weeks post detox	Session 5	60-minute therapy session				
5 weeks post detox	Session 6	60-minute therapy session				
6 weeks post detox	Session 7	MDMA-assisted therapy session 1 (~6-8hours)				
	Session 8	Next day follow-up session (60 min) then daily phone calls 4 days.				
7 weeks post detox	Session 9	60-minute therapy session				
8 weeks post detox	Session 10	60-minute therapy session				
3 months post detox	Face-to-face Follow-up interview					
6 months post detox	Face-to-face Follow-up interview					
9 months post detox	Face-to-face Follow-up interview					

Demographics:

- Participants recruited from local addictions service.
- Thirty-six participants were screened.
- Fourteen people were eligible; of which six were females.
- Average age 48 years.
- All were white-UK race.
- Four were employed, nine unemployed and one retired.
- Alcohol characteristics:
 - The average age the participants first used alcohol was 13 years old.
 - The average age when alcohol use became daily was 34 years old.
 - 64% of participants reported a history of blackouts
 - 14% of participants had experienced alcohol withdrawal-induced seizures.
 - 86% of participants reported **risky or vulnerable incidences** due to alcohol.
 - 75% of participants had a history of offending behaviour due to their alcohol use.
- Physiological parameters at baseline:
 - The average BP (mmHg) was 131/85, the average Heart Rate was 75bpm.



BIMA: Safety and Tolerability data (N=14)

PARTICIPANT NUMBER:	ABNNORMAL PHYSIOLOGICAL CHANGES IN MDMA SESSIONS OBSERVED:	SERIOUS ADVERSE EVENTS RECORDED:	POST-MDMA AFFECT DROP IN THE WEEK AFTER THE SESSION	SUICIDE RISK (AS MEASURED BY C-SSRS):	SUBJECTIVE REPORT OF PARTICIPANTS' TOLERABILITY OF MDMA THERAPY COURSE:	ABNORMAL CHANGES IN BLOOD TEST RESULTS AND ECG BETWEEN BASELINE AND THE END OF THE MDMA COURSE:
B01	None	None	None	Nil	Positive	Nil
B02	None	None	None	Nil	Positive	Nil
B04	None	None	None	Nil	Positive	Nil
B05	None	None	None	Nil	Positive	Nil
B09	None	None	None	Nil	Positive	Nil
B11	None	None	None	Nil	Positive	Nil
B15	None	None	None	Nil	Positive	Nil
B16	None	None	None	Nil	Positive	Nil
B17	None	None	None	Nil	Positive	Nil
B20	None	None	None	Nil	Positive	Nil
B21	None	None	None	Nil	Positive	Nil
B25	None	None	None	Nil	Positive	Nil
B26	None	None	None	Nil	Positive	Nil
B28	None	None	None	Nil	Positive	Nil

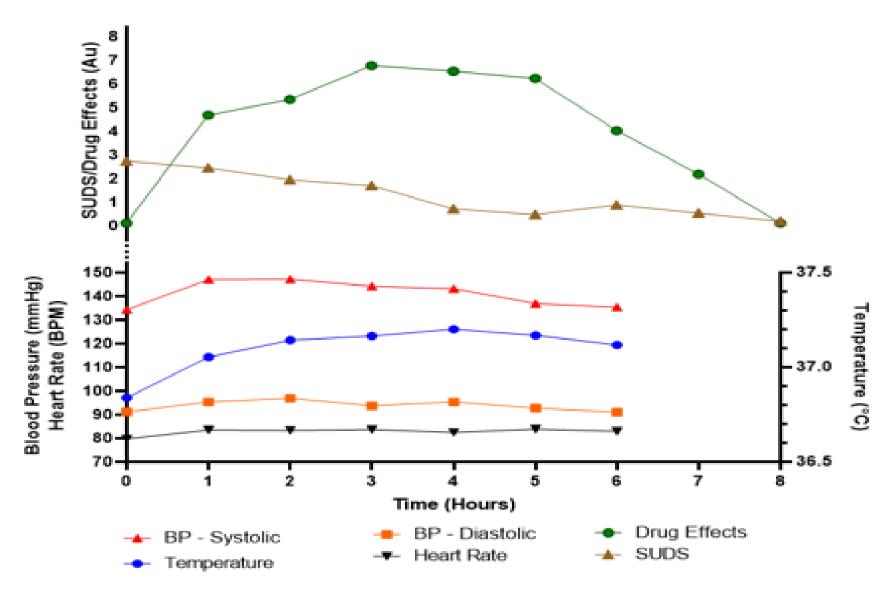
BIMA: Safety and Tolerability data (N=14)

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B01	None	None	None	Nil	Positive	Nil
B02	None	None	None	1	Positive	S Nil
B04	None	None	Note	Nil	Positive	Nil
В05	None	None	one	Nil	Positive	Nil
B09	None	N ne	None	NI	Positive	Nil
B11	None	Vone	None	ii V	Positive	Nil
B15	Te C	None	Mone	Nil	Positive	Nil
□ 16 ∨	Von	None	None	Nil	Positive	Nil
DIA	None	None	None	Nil	Positive	Nil
اعدا	None	Mone	None	Nil	Positive	Nil
B21	None	None	None	Nil	Positive	Nil
B25	N ne	None	None	Nil	Positive	Nil
B26	No le	None	None	Nil	Positive	Nil
B28	None	None	None	Nil	Positive	Nil

Was MDMA Tolerated by Patients with AUD?

(Average scores across all 26 MDMA sessions)

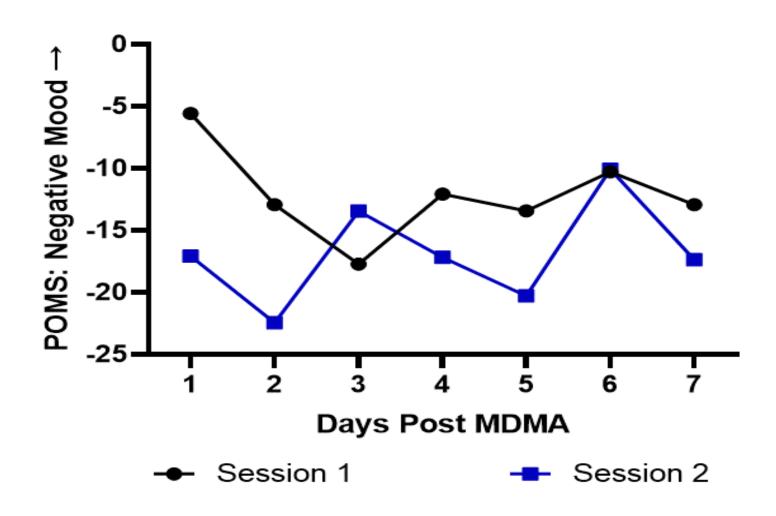






Profile of Mood States (POMS) carried out by daily telephone calls for 7-days after each MDMA

Session (Average scores across 26 MDMA sessions)





Safety Profile of MDMA

Very low rates of morbidity and mortality.

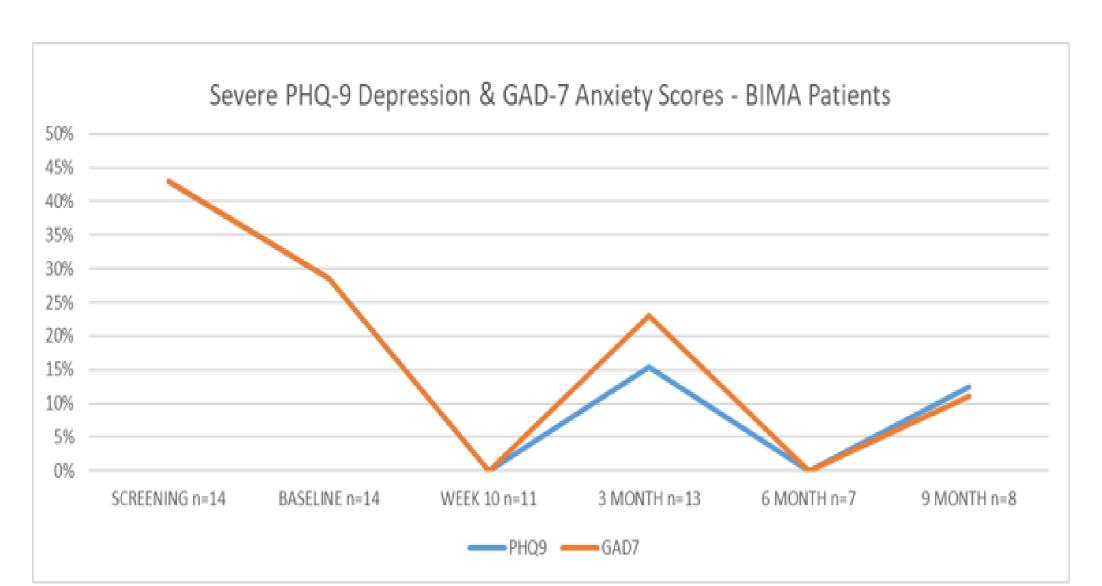
Risks easily controlled in clinical setting.

Clinical MDMA is not recreational ecstasy.

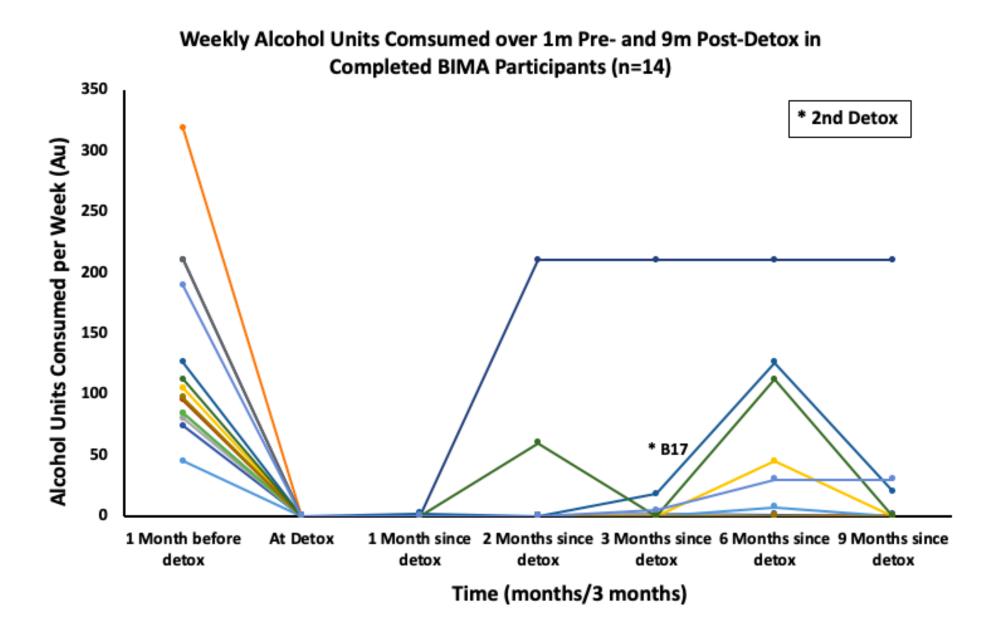
Doblin R1, Greer G, Holland J, Jerome L, Mithoefer MC, Sessa B. (2014) A reconsideration and response to Parrott AC (2013) "Human psychobiology of MDMA or 'Ecstasy': an overview of 25 years of empirical research". Hum Psychopharmacol. 2014 Mar;29(2):105-8. doi: 10.1002/hup.2389.

Other measures: Global Depression and Anxiety

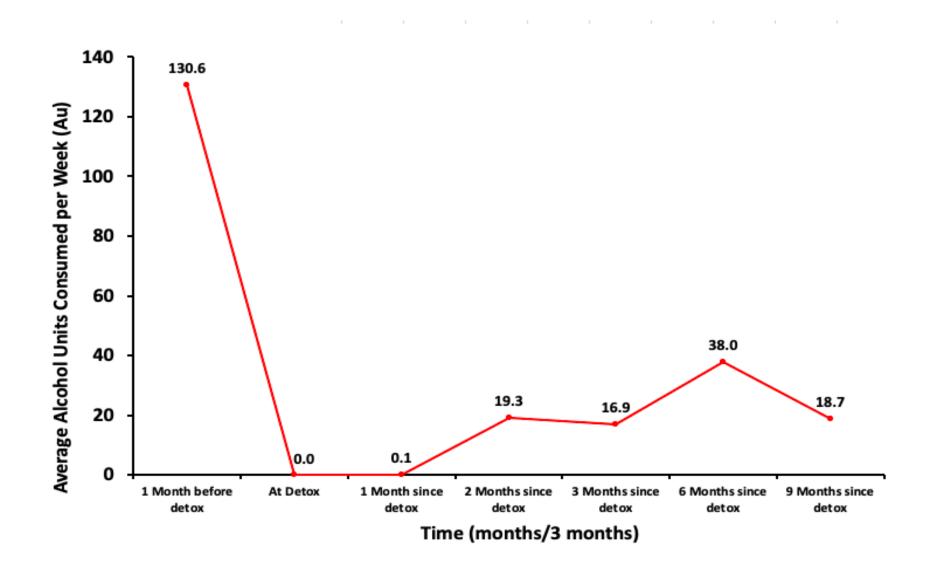
(Average scores across n=14)



BIMA Drinking Behaviour Data:

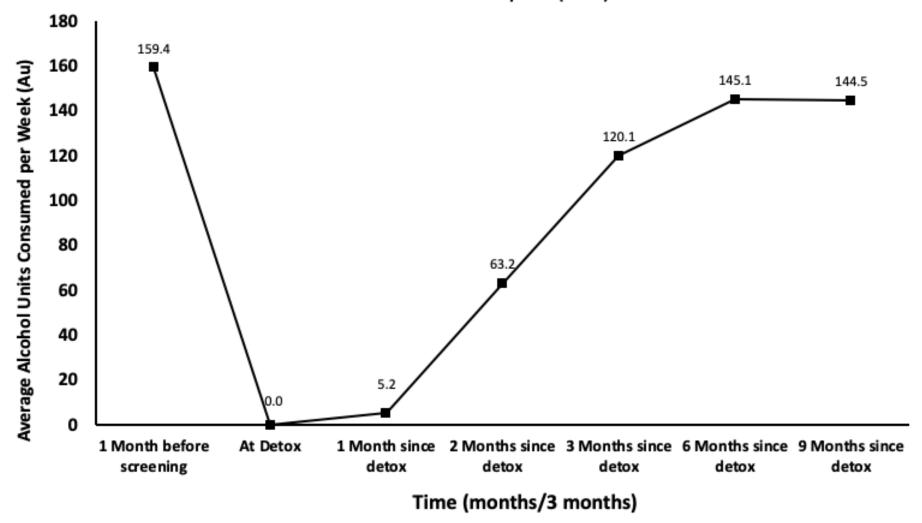


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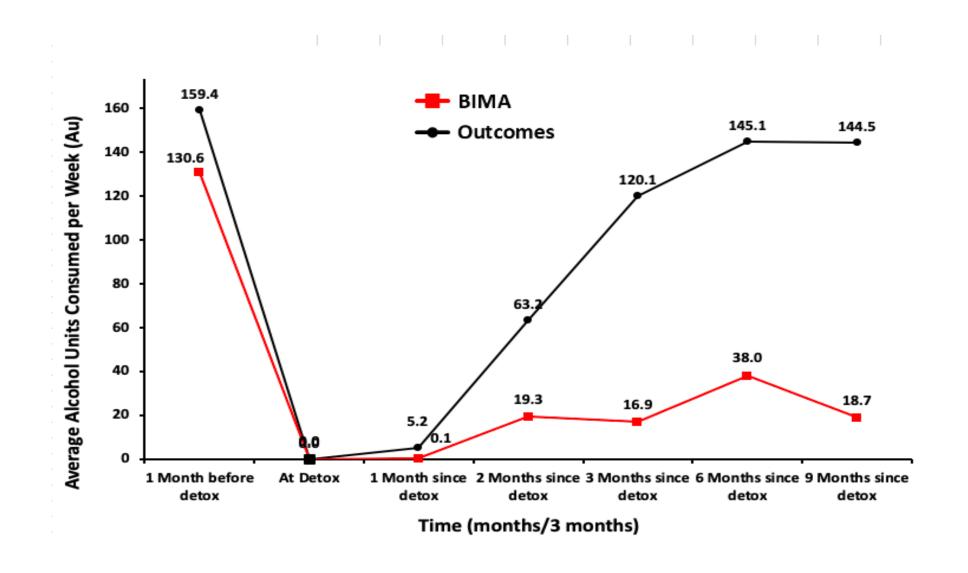


The OUTCOMES (Observational) Study:

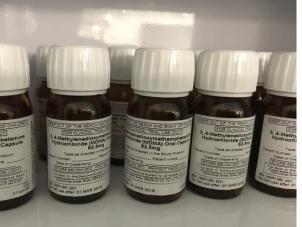
Average Weekly Alcohol Units Comsumed over 1m Pre- and 9m Post-Detox in Completed Outcomes Participants (n=12)



BIMA Drinking Behaviour Data:















"MDMA Therapy is far more effective for me than my previous attempts at tackling my drinking."

"For the first time in my life I can see clearly why I have been drinking and what I need to do to stop."

"I have no intention of ever returning to alcohol again."

"MDMA has shown me that I am a good and worthy person."

"MDMA has shown me that the abuse I suffered as a child, which led me to drinking, was not my fault. Now I can hold my head up high and go on and achieve what I am capable of in life."

"MDMA Therapy has changed my life."



South London and Maudsley WHS











NHS Foundation Trust













Imperial College London













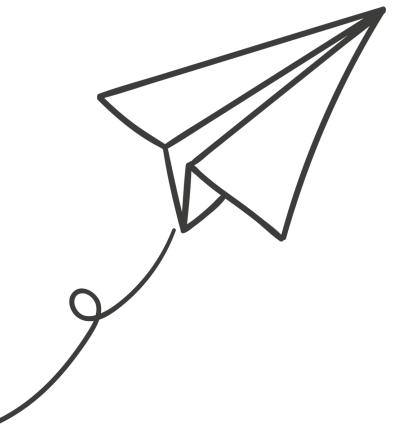






The Future for MDMA-Assisted Psychotherapy?

- Much more than just PTSD
- Trauma (of some kind) underlies most chronic mental disorders
- Especially addictions
- MDMA (like classic psychedelics) can be seen as a 'non-specific adjuncts to psychotherapy' (Grof)
- So what are we doing in Bristol now.....???







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Chairman, Scientific Advisory
Board



Dr. Ben Sessa Chief Medical Officer



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Jonathan Held Chief Financial Officer



Dr. Laurie Higbed Lead Psychologist



Dr. Dawn DeCunha Advisor



Dr. Mike Hart Advisor