



Foundations of Ketamine-Assisted Psychotherapy





Module 3 What is Ketamine?

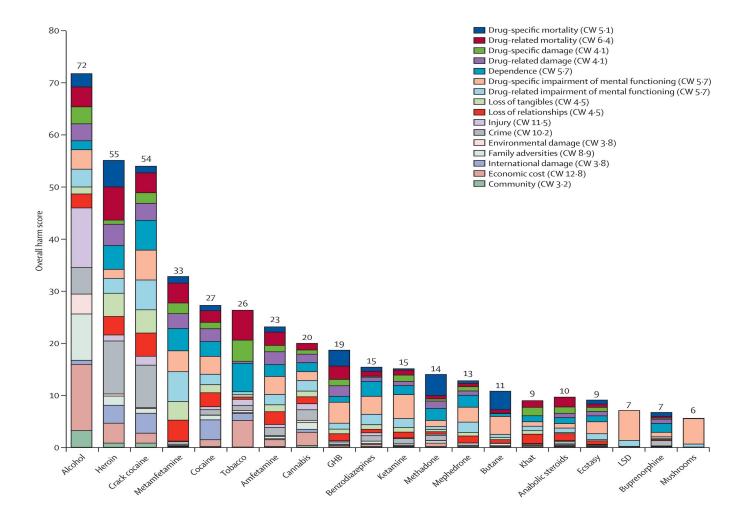


Lesson 3.7

Medical & Safety Considerations

Psychedelics & Mental Health

- Decreased rates of suicide and psychological distress among those reporting prior use of psychedelics (Hendricks 2015)
- No evidence of increased rates of mental health problems (Krebs 2013)
- Cases of mental health complications following a psychedelic are rare (<0.1%), even in vulnerable populations (<0.2%), and rarer still with proper screening (Cohen 1962, Studerus 2011)
- Studies examining use patterns in humans & self-administration in animals suggests that classic psychedelics possess little or no abuse liability (Nichols 2004)
 - Rhesus monkeys found LSD to be aversive, working to avoid a cue associated with LSD infusion (Hoffmeister 1975).
 - There is no human LSD dependence syndrome, despite its availability for many decades
 - Psilocybin failed to produce consistent self-administration in rodents or monkeys (Fantegrossi, Woods et al. 2004; Nichols 2004)



And yet...

It's really important that our enthusiasm and hope for the future do not overshadow the need to consider:

- → Optimal conditions
- → Contraindications
- → Psychospiritual emergencies
- → Safety considerations & prohibited medications

MDMA-Assisted Psychotherapy: Participants in Studies agree to:

- Attempt to maintain a steady amount of social support external to their psychotherapy session
- NPO except liquids after midnight prior to dosing session
- No caffeine or nicotine at least 2 hours before and 6 hours after dosing
- No new medications or supplements without study team approval (other than tylenol & ibuprofen)
- Willing to be driven home from dosing session
- 2 forms of contraception

MDMA Studies: Sample exclusion Criteria

- Comorbid mental health conditions:
 - Psychotic disorders (including immediate family member with psychosis)
 - Bipolar disorder
 - Dissociative identity disorder
 - MDD with psychosis
 - Eating disorder with active purging
 - Suicidality (current serious suicide risk)
 - Certain personality disorders (i.e. Schizoid, Schizotypal, Paranoid)

Cardiac

- Personal or family history of sudden or early life cardiac even (1st and 2nd degree relatives included)
- Poorly controlled hypertension (>140/90 mmHg on 3+ occasions)
- Cardiac arrythmias (other than occasional PVCs)
- QTc > 450ms, or any risk of Torsades (CHF, hypokalemia, family hx of long QT)

Medications

- Use of SSRIs / SNRIs within 3 months prior to study
- Taking medications that prolong QT interval
- Any other significant medical or laboratory abnormality deemed by study team to be a contraindication

General Contraindications for Psychedelic Medicine

- Medical or psychological fragility
- Certain medications (more on that later save to say it's important to examine this from both perspectives)
- Lack of social support, including around medicine use; low socioeconomic status; housing issues

"So um, I guess whoever you see with the most fragile mind, ah so there's a different level of, of fragile mind even in the population we're choosing to serve. You can always see where that, maybe I can't help that person, oh everyone here is fragile, but that person right there is probably too fragile to even make it through, so just gauging those things." ~Ayahuasca ceremonial leader

Antidepressant	Phenethylamines	Tryptamines	MAOI-containing	Ketamine	Ibogaine
	-MDMA, mescaline	-Psilocybin, LSD	-Ayahuasca, Syrian Rue		
SSRIs Paroxetine (Paxil) Sertraline (Zoloft) Citalopram (Celexa) Escitalopram (Lexapro) Fluxoetine (Prozac) Fluvoxamine (Luvox) SPARI Vibryyd (Vilazodone) Trintellix (Vortioxetine) SNRI Venlafaxine (Effexor) Duloxetine (Cymbalta) Desvenlafaxine (Pristiq)	Taper & discontinue at least 2 weeks prior (all except fluoxetine) or 6 weeks prior (fluoxetine only) due to loss of psychedelic effect MDMA is unable to cause release of serotonin when the serotonin reuptake pump is blocked. This leads to drastically reduced effects [1-7]	Consider taper & discontinuation at least 2 weeks prior (all except fluoxetine) or 6 weeks prior (fluoxetine only) due to potential loss of psychedelic effect Chronic antidepressant use may result in down-regulation of 5HT2A receptors and blunted psychedelic experiences [8, 9]. This does not seem to affect psilocybin for some	Taper & discontinue at least 2 weeks prior (all except fluoxetine) or 6 weeks prior (fluoxetine only) due to potential risk of serotonin syndrome Life threatening toxicities can occur with these combinations and is strictly contraindicated [10, 11]	Has been studied and found effective both with and without concurrent use of antidepressants Recommended to be used in conjunction with oral antidepressants by esketamine manufacturer	Taper & discontinue at least 2 weeks prior (all except fluoxetine) or 6 weeks prior (fluoxetine only) due to risk of additive QTc interval prolongation, arrhythmias, or cardiotoxicity Some antidepressants are liver (CYP2D6) inhibitors and have been shown to double ibogaine blood concentrations [12]
-Levomilnacipran (Fetzima) DNRI - Bupropion (Wellbutrin) - Mirtazapine (Remeron)		Loss of effect not predicted to occur, consider taper & discontinuation depending on goals of psychedelic use			Taper & discontinue at least 2 weeks prior to use. May increase risk of seizures in combination. CYP2D6 inhibitor with potential to increase ibogaine blood cocnentrations Taper & discontinue at least 2 week prior due to
	Mirtazapine does not block the se blocks the 5HT2A receptor, thus is not been associated with serotoni	ss of psychedelic effects. It has		risk of additive QTc interval prolongation, arrhythmias, or cardiotoxicity	

Antidepressant	Phenethylamines	Tryptamines	MAOI-containing	Ketamine	Ibogaine
	-MDMA, mescaline	-Psilocybin, LSD	-Ayahuasca, Syrian Rue		
Tricyclic Antidepressant (TCA) · Amitriptyline (Elavil) · Nortriptyline (Pamelor)	Taper & discontinue at least 2 weeks prior due to loss of psychedelic effect	Consider taper & discontinuation at least 2 weeks prior due to potential	Taper & discontinue at least 2 weeks prior due to potential risk of serotonin syndrome. Risk is	Has been studied and found effective both with and	Taper & discontinue at least 2 weeks prior due to risk of additive QTc
Clomipramine (Anafranil) Imipramine (Tofranil) Desipramine (Norpramin)	MDMA is unable to cause release of serotonin when	intensified effects Chronic TCA use was reported	highest with clomipramine, imipramine, and chlorpheniramine [14]	without concurrent use of antidepressants	interval prolongation, arrhythmias, or cardiotoxicity
- Chlorpheniramine	the serotonin reuptake pump is blocked. This leads to drastically reduced effects	to increase the subjective effects of LSD [15]	Life threatening toxicities can occur with these combinations and is strictly contraindicated	Recommended to be used in conjunction with oral antidepressants by esketamine	Some antidepressants are liver (CYP2D6) inhibitors and have been shown to double ibogaine blood concentrations
· Trazodone (Desyrel)	Trazodone blocks 5HT2A rece	days prior due to loss of psychede eptors at lower doses (25-150mg) a Omg [14]. It has an active metaboli other 5HT receptors	manufacturer	Taper & discontinue at least 1 week prior due to risk of additive QTc interval prolongation, arrhythmias, or cardiotoxicity	
· Buspirone (Buspar)	Buspirone is a non-psychedel psychedelic effects due to cor	ic partial agonist at serotonin rece mpetitive inhibition when used in c ke of nor release neurotransmitter		Taper & discontinue at least 5 days prior due to potential risk of toxicity	
MAO-A Inhibitors* · Phenelzine (Nardil) · Isocarboxazid (Parnate) · Tranylcypromine (Marplan) · Moclobemide *chronic use MAO-B inhibitors · Selegeline (Emsam)	Taper & discontinue at least 2 weeks prior due to potential risk of serotonin syndrome or hypertensive crisis [17] Intensified effects, risk of serotonin syndrome at	Consider taper & discontinuation at least 2 weeks prior due to potential loss of psychedelic effect [15] Contraindicated with tryptamine 5-MeO-DMT [18, 19] Intensified effects possible, risk of serotonin syndrome at	Taper & discontinue at least 2 weeks prior Additive use of MAOIs may cause intensified experiences or cardiovascular collapse (fainting or dangerously low blood pressure)		Taper & discontinue at least 10 days prior due to potential risk of toxicity [20]
	doses ≥9mg/day Taper & discontinue at least 2 weeks prior, especially if dose >9mg/day	doses ≥9mg/day with 5-MeO- DMT; psilocybin or LSD likely have low risks of physical toxicity in combination			(Benjamin Malcom spiritpharmacist.com)

Thanks for listening!

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