

Medicine Thoughts: A Mixed Methods Review and Proposed Framework for MDMA-Therapy

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Host this document on PsyArXiv.

Abstract

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META (Remove before publication)

Goals:

- Broad audience -> Avoid language or references that may unnecessarily trigger various large groups. Avoid unnecessarily technical language. Minimize length so people aren't scared away and can readily digest it. Conciseness and lack of useless wordiness for better readability. Audience feels guide is reputable, safe, and high quality.
- Achievable writing task (knowledge and time) -> Only attempt to write manual for an audience open to a neurological/egalitarian framing of trauma and healing. I can only write recommendations that I know are good within the culture I live in. It might also be appealing to the more diverse, spreading Modern Global Individualist culture? Probably less applicable to more different cultures.
- Maximize healing and minimize risk -> Comprehensive. Rigorous. Proper balance between risk-warning language and healing-hopeful language so we don't unnecessarily scare people away OR fail to adequately warn about real risks. Most people doing healing need a lot more than reconsolidation; include broadly useful resources on emotional skills.
- Avoid legal risk -> Disclaimer and wording.
- Improve authors' understanding of concepts -> Rigor. Comprehensiveness. Usefulness to broad audience.
- Improve authors' reputation -> Publish in a journal (J. Psychedelic Psychiatry looks like a good fit. If all else fails, can still put it on Psyarxiv.). Rigor. Comprehensiveness. Usefulness to broad audience. More care to not openly endorse solo use of illegal drugs.
- Want to be useful as FAQ or supplemental material for guides and therapists. Should consult one to see what they would want in such a document!
- Help Mark (and others who think like me) understand what is actually happening in trauma and healing. Psychologists, psychiatrists, and therapists rarely told me what was actually happening to me, and when they did, it was presented in baffling, ill-defined metaphors. -> Construct a rigorous, science-based explanation of trauma and therapy.
- Make Mark happy by exercising Mark's capabilities to their fullest extent.
- What else?

Known Issues, Uncertainties, and Missing Things:

- So far this paper was developed on my personal experience, reports of others' MDMA experiences, information from Jess and Day, and reading research papers. I combined and extrapolated that into a more cohesive framework. GPT helped me a lot in clarifying concepts. I've had almost no positive experiences in therapy or psychiatry

(except sessions with Jess that felt more like me asking for advice on various things) that didn't involve psychedelics and I haven't read any psychotherapy books other than Coleman's Psychedelic Psychotherapy.

- Needs major addition to managing destabilization in the relevant section and where mentioned throughout. Day might have better knowledge on this. I blundered through destabilization without any technique. All I knew was that the faster I healed, the sooner I would get through. I seem to have addresses many destabilization management factors in the introduction. Maybe that area needs some rework too.
- Section by section review with GPT (2 rounds completed). Prompt: This paper (delivered one section at a time) is intended as a scientifically rigorous framework for self-guided MDMA-therapy for a variety of audiences. Suggest improvements in the following section for ease of comprehension, logical flow, active voice, conciseness, avoidable triggers for a wide variety of groups, and technical accuracy and comprehensiveness. Identify any statements out-of-line with the scientific literature. Don't assume citations back up my conclusions. Identify gaps in my coverage of a topic. Suggestions should especially include opportunities to reduce the length of sentences and paragraphs through more efficient phrasing and removal of unnecessary words. Suggest additions, subtractions, or mergers of items in the lists in my paper. Make recommendations for avoiding liability or legal problems. Deliver your responses in narrative format. List all suggestions. Tone down your recommendations to never do anything without a medical professional. I don't want to hear that sort of protectionism.
- I don't include much empathetic language. Should that change? I don't know how to write that way.
- Review bibliography for missing information like volume numbers.
- Try to eliminate non-peer-reviewed sources from bibliography
- Reconsolidation diagram?
- excise coleman
- I think a modified version of "The Practice of MDMA-Therapy" chapter plus selected parts of the science chapter is the best hope for publication. It would be short enough and could be rephrased to avoid advocating self-guidance. We can still distribute the whole manual separately. "An Introduction to MDMA-Assisted-Therapy for Clinicians"
- Emphasize regular on the spot coherence.
- If destabilization becomes intense, should therapy be intensified to clear the maladaptive schema backlog ASAP, or should it be slowed down? Management tools may be helpful in either scenario. I would have (and have) benefited from speeding up therapy. My greatest mistake was to stick to a 3 month frequency.

- I'm skeptical that dissociation can be adaptive when activated by maladaptive schemas. Dissociation is an ANS response to life-threats. So it's definitely adaptive when a lion caught you, probably adaptive when you're a neglected child, and unclearly adaptive when you're an adult facing overwhelming feelings? Overwhelming feelings might or might not be a life threat depending on context. So when can we assume dissociation in adults is adaptive or maladaptive? Not sure ANS is sophisticated enough to make sure it's responses are always adaptive.
- Talk about making schemas explicit as a means for more effective reconsolidation and management?
- Add a section on attachment (life, health, being a good person, connection, maybe some more?)
- Read sequences to identify missing things.
- Make manual more open to those who don't have "trauma", but do have maladaptive schemas. Want them to think they can benefit from therapy. Trauma is shorthand for more complex reality: all there really is are schemas that are either adaptive or maladaptive to the current context. Trauma might be defined as an overwhelming context.
- If Day becomes co-author, review sections where we say 'we' or 'i', and possibly specify which author we are talking about.
- Read Psychedelic Psychotherapy to identify missing things.
- Read Unlocking the Emotional Brain: Eliminating Symptoms at Their Roots Using Memory Reconsolidation to identify missing things.
- To what degree do we want to add various metaphorical language for healing that many people may find easier to understand? Can't write a single guide for everyone; some amount of sticking to a certain set of language is necessary. Maybe I should include metaphorical synonyms in the glossary or elsewhere? I don't know where to start because most therapy language baffles me. Maybe Day knows how to do this.
- Most of the citations need to be made more rigorous (the referenced material backs up the exact claim I make, referenced material is peer-reviewed if possible) and in APA style. Sections starting with * have had this process completed.

Preface

My healing journey brought several realizations to light: Core knowledge essential for effective MDMA-therapy is dispersed across many sources, ranging from scientific literature to the wisdom of experienced therapists. Trauma-therapy, and MDMA-therapy in particular, can address the root causes of many of the world's problems. Many people are desperate for healing, don't know where to start, can't access expert assistance, and don't have the

information to safely and effectively heal. I also didn't understand how trauma and healing actually work, despite successful application of MDMA-therapy.

seems unprofessional

I thought a manual could help with these problems. This document aims to be a comprehensive and self-contained starting point, including descriptions of the core concepts and brief tutorials on a variety of related practices. Links to in-depth resources are provided for those wanting to dig deeper. This document describes how the mind responds to trauma and how healing works, in a way that is hopefully clear, accurate, and directly applicable to healing. I also hope this will serve as a FAQ, manual, and general reference for MDMA-therapy. Maybe this will also be helpful for others who were never told what was happening to them or how to heal it, or if they were, it was in a language they didn't understand. I hope you like it.

MG would like to thank: MDMA-therapy, for saving my life. The scientists and therapists who developed this body of knowledge and practice. The indigenous communities who first discovered how to use psychedelic medicines for healing [29]. My friend and guide, Jessica Sojorne Libere, for years of guidance. My partner for encouragement, support, and editing. [r/mdmaththerapy](#) for community insight. ChatGPT-4, for assisting with editing, research, and major contributions to the Appendices, Glossary, Defense Cascade, and Minimizing Destabilization [94].

The authors declare no conflicts of interest. MG funded the project and TH donated their time.

1 Introduction

MDMA creates powerful feelings of connection and safety. When used with skill, these emotional states are highly effective tools for healing and adaption. Various fundamentally similar framings highlight the benefits of MDMA-therapy to different audiences:

- Healing mental illness or addiction
- Connecting to yourself, those you love, and the world.
- Developing equanimity, patience, compassion, introspection, resilience, alignment of behavior with goals, and cognitive and emotional flexibility.
- Unburdening from hypervigilance, fear, chronic stress, loneliness, addiction, shame, guilt, etc.
- Unblocking your inner healing capacity.

This manual is a supplementary resource for those with a guide or therapist or a starting point for those going solo due to availability, cost, or trust obstacles. This guide doesn't offer medical advice, guarantee healing, assure the prevention of negative outcomes, or prevent legal problems if used in a place where MDMA is illegal. Instead, this guide presents a framework for increasing the efficacy and safety of MDMA-therapy, grounded in research, community insights, and author experiences. While this guide has universal aspects, it doesn't cover

all frameworks for MDMA-therapy. Although MDMA-therapy has been practiced by underground therapists for decades, comprehensive scientific study is relatively recent, leaving some aspects unexplored [99]. In many jurisdictions, possessing MDMA, LSD, THC, or psilocybin mushrooms is a felony; this guide doesn't endorse illegal activities [5]. We start with an overview of how our minds and bodies respond to trauma, how healing works, and the efficacy of MDMA-therapy. Then we describe the practice of MDMA-therapy, including the trade-offs of professional guidance vs. self guidance, safety, preparation, how to conduct the session, how to process the session, troubleshooting, and how to minimize overwhelming symptoms. We also discuss a variety of complementary practices and tools. These are not essential to the practice of MDMA-therapy itself, but appropriate use will quicken and deepen your overall healing. There is a glossary (Section 6) of common terms before the appendices. We frame the majority of this manual in the schema/reconsolidation framework of healing because, unlike most therapeutic frameworks, it has an evidence-based foundation in neuroscience research.

talk about
legality and
risk

2 *Technical Summary for Therapists and Guides

We hope this section, and the whole paper, will provide a valuable practical review of MDMA-therapy. We noticed many therapists using MDMA in their practice don't have access to high-quality information on the topic. This lack was a significant motivation for this paper.

Adding MDMA to a psychotherapy session essentially adds a source of profound safety and connection without the loss of control or hallucinations that LSD or mushrooms can create. This reduces dissociation and resistance, and provides a strong mismatch for reconsolidating maladaptive schemas. We based this manual on the schema/reconsolidation framework because of its epistemological foundation in lower-level neuroscience models. Schemas are memory structures containing multiple integrated and co-activating components: emotional responses (e.g. fear at the sight of dogs), abstract beliefs (e.g. dogs are dangerous), and episodic memories (e.g. being bitten by a dog as a young child). Minds create schemas to guide us toward beneficial actions and away from harmful ones. Schemas change over time as situations change, or as we grow up and acquire increased capability to cope with challenges. A schema reconsolidates (updates) when it is triggered and your brain detects a mismatch between the emotional responses or beliefs of the activated schema and the current situation (or a second activated schema, as is often used in therapy). Schemas can become maladaptive when prevented from updating by avoidance, resistance, lack of resources, fight-or-flight, or dissociation. They are similar to the parts of Internal Family Systems. In therapy, mismatches are often constructed and held in focus for a duration of time to deliberately rewrite and re-store the schema in a new, durable, and adaptive form. The safety and connection of MDMA create a strong, possibly universal, mismatch that easily reconsolidates most maladaptive schemas.

Dissociation is sometimes still present when the brain interprets certain activating schemas as an imminent life threat. It typically presents as sleepiness, feeling bored or sober, or feeling disconnected from emotions. When dissociation impedes the therapeutic process, practicing extended focus meditation toward the dissociation often resolves the issue. A different approach such as Psychedelic Somatic Interactional Psychotherapy (PSIP) may be needed

overclaiming;
epistemological link between daily mental problems and neuroscience; we're not closing ourselves off to things outside this framework if they are useful

first if dissociation is so intense that the client falls asleep. Resistance or avoidance may also still be present during an MDMA-therapy session and can be worked with by worked with through both standard and novel therapeutic practices. These may include asking the client to practice selective inhibition (suppression of minor comforting movements), prompting the client to focus on and stay present with their emotions instead of thinking or ruminating, or asking probing questions about feelings, beliefs, and the events that may have created them.

Reconsolidation and insight during MDMA-therapy is often so deep and rapid that with only non-directive support or occasional prompting, clients quickly come to their own accurate insights about how trauma shaped them and why their schemas didn't update. However, guidance may be necessary to deal with resistance or dissociation. This unusual depth of healing can prompt greater degrees of destabilization as dissociation and avoidance rapidly decrease.

MDMA has a few serious medical and drug contraindications, but is generally safe and non-addictive in therapeutic contexts. We believe its popular reputation as inherently dangerous is not accurate. Additional caution is warranted in clients with dangerous or difficult to manage symptoms such as a history of psychosis, mania, or strong suicidal ideation. See section 4.3 for more information.

We suggest guided MDMA sessions, possibly combined with certain safe activities, may also be particularly useful for creating new schemas. These may include bonds with nature or recognition of the inherent moral worth of all beings.

3 The Science of Trauma and Healing

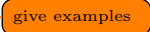
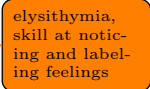
3.1 What is Trauma and Why do its Effects Stick Around?

*Traumas are distressing events or chronic conditions that overwhelm our ability to cope [68]. Our ability to cope depends on our capabilities and resources. Children are easily traumatized because they have very little ability to protect themselves, but a variety of other circumstances also lessen our ability to cope with adversity. These include deficits of: mental health, physical health, socio-economic status, healthy support from other people, physical activity, education, self-worth, emotional capacity to process distressing feelings, and cognitive flexibility [124, 138, 141]. Common traumas include:

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- Different forms of unintentional or occasionally intentional neglect or abuse.
- Lack of emotional attunement from parents [21].
- Disasters, accidents, or war
- Chronic poverty, dehumanization, or dysfunctional social-cultural systems [117]
- Loss of health, home, family, or culture
- A wide variety of other difficult situations

After trauma and other non-traumatic events, our minds create protective emotion/belief/memory structures called schemas [35]. These prompt behaviors that help us adapt to these situations or avoid similar situations in the future. Our schemas usually update when our ability to handle adversity increases, like when we become adults, or when the situation changes. The updating process involves staying present with the distressing feelings of the traumatic memory. A variety of mechanisms can inhibit this presentness and updating, causing our schemas to keep operating in the same way as when we were less capable:

- **Resistance:** Conscious or unconscious avoidance schemas like drinking alcohol when distressed, escapist habits, addictions, believing "feeling emotions is weakness", believing that shame is proper, fear that healing a schema will hurt you in some way, denial, projection, rationalization, etc [35]. This does not include healthy avoidance, which is temporary and helps you cope in non-destructive ways until you have the space to process. Resistance also includes networks of schemas that reinforce each other: Whenever schema A activates, schema B is triggered. B then reinforces A with a negative stimulus, preventing A from adapting. Sometimes these networks of avoidance and reinforcement become complex and paralyzing. 
- **Lack of Resources or Skills:** Not having a quiet moment or space to reflect and deal with emotions. Being unsure about the reasons for your emotions or how to handle them. 
- **Fight-or-Flight or Dissociation:** These autonomic nervous system states inhibit engagement with emotions [111].

*When these prevent processing of a maladaptive schema, the schema becomes 'stuck', and keeps replaying when triggered, without adapting [110, 35]. This emotional response and the associated episodic memory (a narrative of how events unfolded during a specific event or "episode") then form and combine with abstract beliefs about the world to form durable, unconscious or partly unconscious structures called schemas, or 'parts' (from the Internal Family Systems framework) [68, 133]. The emotional, episodic, and belief components interact with each other and activating one activates the others. Schemas are originally protective or adaptive (enhances your ability to cope with your environment; see Figure 1), but sometimes become maladaptive (inhibits your ability to cope with your environment; see Figure 2) when they don't adapt to changing conditions due to the above reasons.

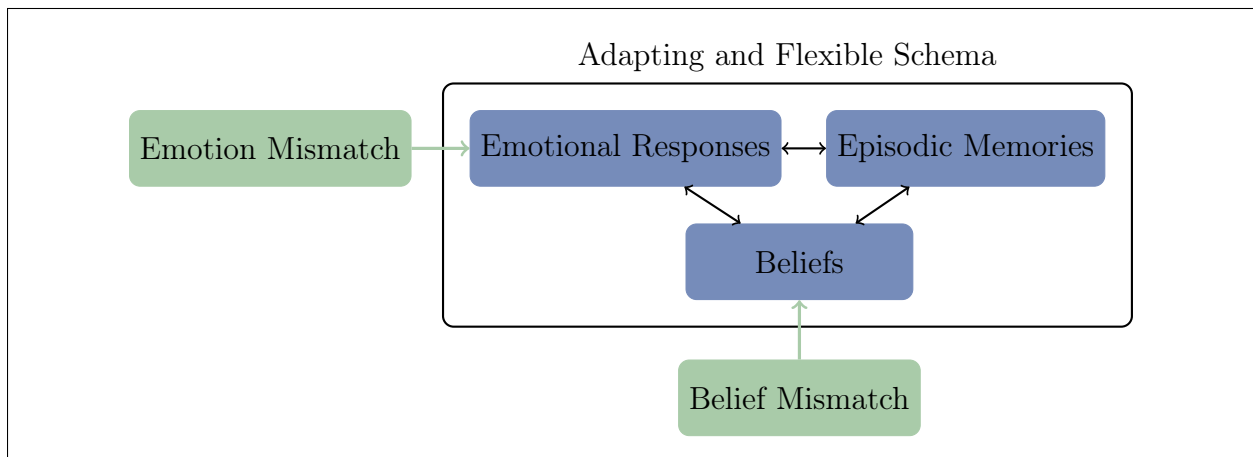


Figure 1: The whole schema updates when either its belief or emotion components experiences a prolonged mismatch with a contradictory experience. Avoidance behaviors are temporary and healthy.

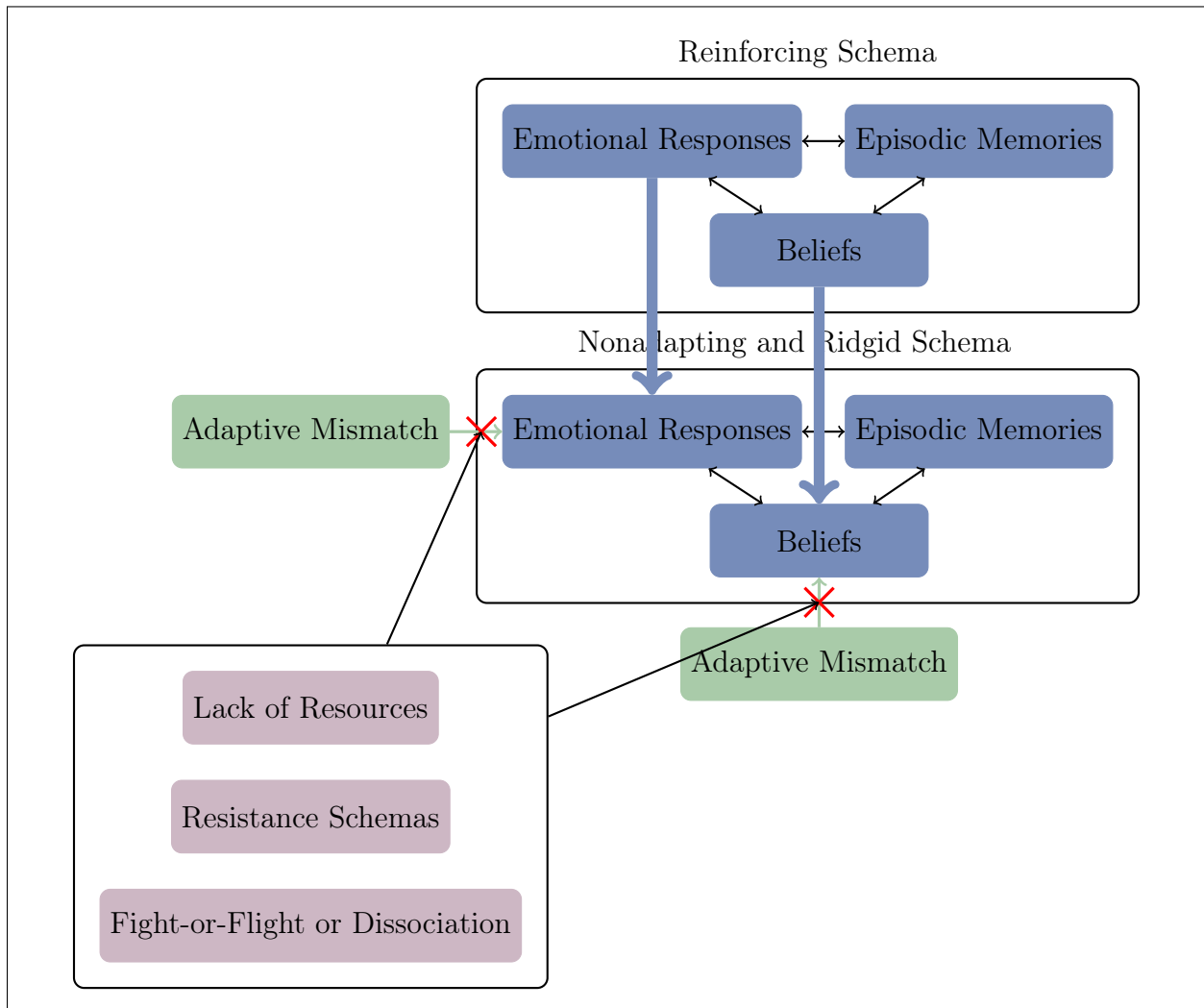


Figure 2: The schema doesn't update and becomes maladaptive when mismatches are avoided or another schema reinforces it. The maladaptive schema may trigger the reinforcing schema, or they may share a common trigger. The emotional response of the reinforcing schema is intense and outweighs the adaptive mismatch.

Here's an example of a schema that became maladaptive:

get better example

- Situation: As a young child, Amy was frequently ridiculed by her peers whenever she spoke up in class or shared her opinions (episodic memory).
- Initial Schema: "If I voice my opinions or stand out, I will be ridiculed and rejected (belief). Ridicule and rejection hurt (emotional memory)."
- Resulting Behaviors and Beliefs: Amy grows up avoiding speaking in group settings and tends to keep her thoughts to herself (behavior). She might decline leadership positions or avoid roles where she'd be in the spotlight (behavior). In discussions, even if she disagrees or has a valuable perspective, she might not voice it (behavior). Amy might believe she's not as smart or valuable as others, even if evidence suggests otherwise (belief).

This schema operates in the background, guiding Amy's behaviors and beliefs without her necessarily being consciously aware of it. Over time, the schema may reinforce itself if Amy experiences further instances that align with it, making it deeply ingrained and automatic in her responses.

*Schemas are stored as networks of neural connections spread across brain regions [35]. Some networks are complex, composed of multiple traumatic events and triggered by a wide variety of stimuli. When you feel the emotions and beliefs of the memory, you are feeling the part of that network that activated in response to a particular trigger. That trigger may be singular and obvious like seeing a wasp of the same kind that once stung you, or diffuse and difficult to understand like a mood, thought, or time of day.
todooften created unconscious

Schemas may not contain an episodic memory if you were too young to form long-term episodic memories, or the experience overwhelmed you to the extent that your mind prevented episodic memory formation [65, 21]. These emotions can be especially confusing compared to emotions we clearly see a cause for. In addition to possibly lacking an episodic component, schemas may contain and sustain other signals in the brain, such as chronic pain or feelings in your chest or abdomen. The mind may interpret particularly strong schemas as separate personalities.

Maladaptive schemas and the nervous system activations they cause can manifest as: depression, anxiety, resentment, anger, low self-worth, an overactive fight-or-flight mode, hypervigilance, detachment, flashbacks, avoidance, numbness, self-harm, psychosomatic illnesses, shame, guilt, denial, isolation, impulsivity, trust issues, perfectionism, hopelessness, obsessions, disconnection, muddled thinking, etc.

Schemas that outlast their usefulness often harm us and those around us. They may push us to overreact, deny the truth, misjudge important trade-offs, say hurtful things, etc. We may also seek out the connection and safety we desperately need in dysfunctional ways. The stress of chronically activated distressing feelings or chronic nervous system activation also significantly increases risk for a wide variety of physical diseases and problems [42]. The fear and nervous system activation of emotional memories can also have a variety of negative consequences, such as being too distracted by our own pain to pay attention to the needs of those we love. These maladaptive patterns and their with sustained nervous

categories (cognitive, emotional, social, identity) in chart form?

system activations also predispose individuals to conditions recognized as mental illnesses. About 10% of the population might meet the somewhat arbitrary criteria for mental illness at any given time [95], but almost everyone has some amount of maladaptive schemas that negatively effect them and those around them.

*Schemas and mental illness can also be accurately analyzed through the lens of the biopsychosocial model, where a phenomenon arises through biological predispositions and functions, social models of how one should respond, and an individual's psychology [147].

*Several other phenomena also explain the behavior of traumatized people [68]. Partially surfaced schemas push us to excessively focus on related emotional stimuli, a phenomenon known as emotional congruence. Intense emotions also strengthen memory formation, making traumatic memories especially prominent.

3.2 *Defense Cascade

The Autonomic Nervous System (ANS) governs involuntary bodily functions like heart rate and digestion [66]. While mainly operating unconsciously, the ANS also activates a defense cascade—a sequence of responses—to shield us from threats. Increasing levels of perceived threat activate these responses, though the order of activation depends on individual variability and experience:

- **Arousal** The most common initial reaction to a potential threat. Vigilance, muscle tension, respiratory rate, and heart rate all increase, allowing us to quickly assess and respond to possible dangers.
- **Flight or Fight** When an imminent danger is identified, this response prepares the body to either confront (fight) or escape (flight) the threat. The adaptations of the arousal stage intensify and are augmented by an adrenaline surge, further suppression of pain, and an urge to fight or run.
- **Freeze** When the danger is imminent, but you might go unnoticed, the freeze response temporarily pauses a fight or flight response. If the predator notices you, freezing quickly reverts to fight or flight. While most physiological responses from fight or flight remain, muscles become immobilized.
- **Dissociation: Tonic/Collapsed Immobility** Tonic immobility (playing dead) may dissuade a predator from eating you when you have been caught. Fight or flight responses are deactivated, the body is paralyzed, and the brain produces opioids to numb and dissociate you from reality. Muscles remain tense in case the predator gets distracted, and you have to run again. This state may transition to collapsed immobility (fainting; muscle tension and consciousness partially to fully lost) when the threat further increases, or dissociation may continue increasing without a loss of consciousness. These dissociative states often become chronic in humans, and may not involve paralysis or sleep [111]. Extreme threats such as lack of attunement from parents, may cause extreme dissociation from bodily sensations, emotional memories, and current feelings, even while the person appears to be functioning and conversing normally. Chronic dissociation is association with trauma in situations of powerlessness [73].

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resolve whether fight or flight is deactivated during dissociation; explain how fight or flight can co-exist with dissociation

- **Quiescent Immobility** Tonic/Collapsed Immobility may extend into a lethargic rest and recuperation phase after the threat has gone. Occasionally, this may persist beyond its period of usefulness and become maladaptive.

Originally evolved to address physical threats like predators, the defense cascade now often responds to psychological stresses and triggers [111]. Children are especially prone to these reactions because their threshold of what constitutes a threat to their life is much lower than it is for adults. Lack of parental support, attention, or attunement (see Section A.4) can easily trigger heightened ANS states in children. When this lack is chronic, durable schemas often form and activate the ANS whenever the memory is triggered. This lasts a lifetime if the stuck schema doesn't reconsolidate. Even without a recurrent psychological trigger, the ANS may not naturally restore itself to a relaxed state if the process of neurogenic tremoring is unconsciously inhibited (see Section 5.2).

Recurrent activation of these states contributes to conditions such as anxiety, depression, PTSD, and dissociative disorders [111]. PTSD sufferers, for instance, might frequently switch between heightened alert and dissociative states. Dissociative and panic states can also simultaneously coexist in many cases of depression and anxiety. We suggest understanding this enables safer and more effective healing:

- **Awareness and Insight** Recognizing where you might be within the defense cascade can clarify your reactions and behaviors.
- **Self-Regulation** With awareness, employ techniques like neurogenic tremoring (see Section 5.2), deep breathing, or mindfulness to transition from heightened arousal to a calmer state.
- **Pacing** Observing your shifts between hyper-arousal (fight/flight) and hypo-arousal (freeze/collapse) can inform the rhythm of your self-therapy, indicating when to proceed or pause.
- **Empathy Towards Self** Acknowledge these reactions as once protective, fostering self-understanding and compassion.
- **Creating a Safe Environment** Recognizing the defense cascade's emphasis on safety, prioritize crafting a secure physical and emotional space, potentially setting boundaries in triggering scenarios.

For a comprehensive understanding of the ANS in psychedelic therapy, refer to *The PSIP model. An introduction to a novel method of therapy: Psychedelic Somatic Interactional Psychotherapy* [111].

3.3 Mechanism of Healing

MDMA primarily creates feelings of safety, love, and connectedness. In this state your resistance schemas naturally relax and allow processing of avoided or dissociated schemas. MDMA-therapy proceeds similarly for most types of trauma, with minor variations to accommodate individual needs [96].

Long-term healing of stuck schemas hinges on memory reconsolidation [40]. When memories/schemas are activated, they become plastic and amenable to change. Introducing a mismatch between the triggered emotion/belief and a separate, contradictory emotion or belief rewrites and re-stores the schema in a healed state [68]. The mismatch can arise from MDMA-induced feelings of safety and connectedness, a feeling of safety from an attuned therapist, or the contradictory experience of a second activated memory as done in Coherence Therapy [35]. The experiences of everyday life often provide a small mismatch, slowly reconsolidating surfaced and non-reinforced schemas. Only the part of the memory network that is triggered during therapy gets reconsolidated. Complex memory networks, arising from repeated traumas, may require multiple sessions activating different triggers. A schema may also not fully reconsolidate if, during the session, a different schema came into focus before the first reconsolidation was completed. While reconsolidated schemas are stable, it's uncertain how prone they are to reverting to their original state after experiencing new trauma. Increased caution against future re-traumatization may be necessary.

diagram of
network hy-
pothesis

The more conceptually related the positive experience is to the stuck schema, the more effective the mismatch. This may be due to a variety of mechanisms : a related feeling activates some of the same neural circuits as the schema, the mind may label related experiences as more significant, or related feelings/beliefs may trigger each other and strengthen the process. MDMA may provide a universal mismatch that works for most if not all schemas. This may be because most maladaptive schemas are fundamentally a fear of disconnection or pain, and MDMA creates exceptionally intense feelings of connection and safety [19].

Reconsolidation often reduces the intensity of distressing feelings of a memory. It also commonly presents as more complex changes in self-conception, alterations in the narrative or context of the memory, shifts in associated beliefs or values, expansion of emotional perspectives, integration of previously separated aspects of the experience, or the development of greater cognitive flexibility in relation to the event. Because many schemas contain indistinct beliefs about the self, healing experiences may not necessarily be subjectively conceptualized as activation and reconsolidation of a maladaptive schema.

Reconsolidation is the core mechanism of healing maladaptive schemas, but it is not the only part of healing. Learning healthy habits and emotional skills are also critical, as is insight into how trauma affected you and those around you.

Healing also depends on staying within the therapeutic window, where schemas are activated but not overwhelming, and ANS activation remains below the threshold of distraction.

A track record of successful treatment is also vital. Repeated unproductive attempts at MDMA-therapy, or even a single exceptionally distressing session, may push someone to unfairly discount the possibility that MDMA-therapy can be effective. This guide aims to put distressing sessions into a larger context where the distress or adverse outcome might be an okay part of a long-term healing process, an unnecessary outcome that can be avoided with proper technique, or sign that MDMA isn't the right tool. Another goal is providing best-practices, risk-factors, and troubleshooting information to reduce the likelihood of unproductive sessions.

We propose a description of the healing mechanisms of MDMA in Figure 3.

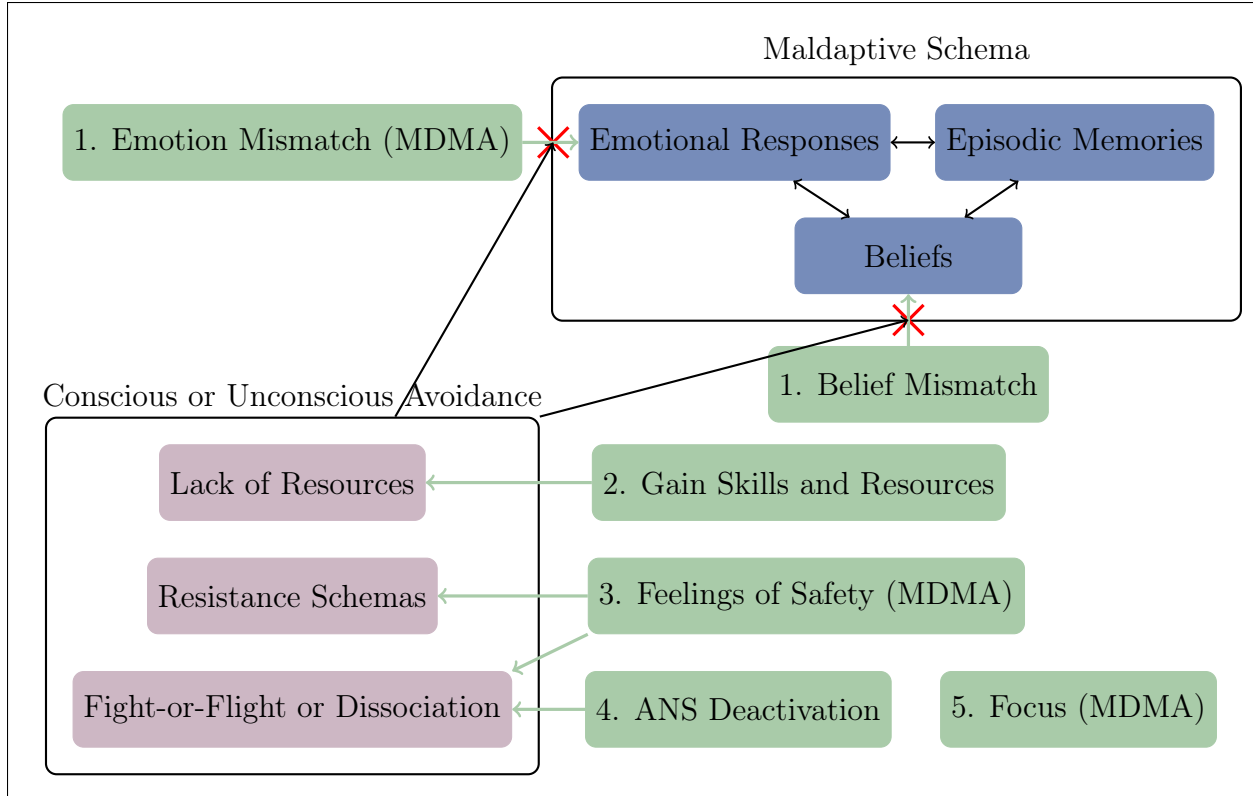


Figure 3: Reconsolidation is achieved through multiple interventions, some of which MDMA directly assists with: 1. MDMA introduces an emotion mismatch. 2. Learn emotional skills and develop resources 3. Feelings of safety lower resistance and deactivate the ANS. The feelings of safety from MDMA are sometimes insufficient by themselves when facing extreme dissociation. 4. ANS-deactivating techniques such as deep breathing, tremoring, and grounding can be essential to staying within the therapeutic window, and are complementary to MDMA during a session. 5. Reconsolidation requires focus and is exhausting in extended sessions. The stimulant effect of MDMA assists with this.

3.4 Efficacy of MDMA-Therapy

*The MDMA phase 3 clinical trials (the final round of clinical trials that test efficacy and safety on a large sample size) demonstrated that high quality MDMA-assisted non-directive psychotherapy highly outperformed placebo-with-therapy treatments for PTSD, as Table 1 shows [85, 84]. Each subsequent dose (the trials included 3 doses) improved outcomes further, likely indicating further doses would further increase healing. The reported outcomes persisted when the data was reanalyzed by an independent, blinded programmer. Only 5% of participants in the MDMA groups discontinued treatment (half for reasons unrelated to the study), compared to 16% in the placebo groups. MDMA-therapy worked across severity of symptoms, presence of comorbidities (including substance addictions), history of ineffective treatment, and race. The phase 2 long term follow-up study shows the effects are durable [59]. While rigorous and highly promising, these studies were organized by a single organization, and a different methodology may show different results. MDMA-therapy with therapists

less familiar with MDMA or in solo use may be different. Psychedelic-therapy trials also suffer from some methodological problems, such as poor blinding [1]. See meta-analyses from Green et al. (preprint) and Smith et al. for a more thorough discussion of efficacy [49, 132].

*MDMA therapy has show some effectiveness for PTSD, dissociation, depression, and functional impairment [49]. It has also improved well-being, excess vigilance, nightmares, avoidance, anxiety, and sleep in those with PTSD [132]. We believe MDMA-therapy has a strong potential be effective for many mental health issues, given the schema/defense-cascade model of mental illness.

We think MDMA-therapy is useful for a broad range of cases at least partially based on maladaptive schemas, but appears particularly promising in these cases:

- Professional guidance for cases resistant to conventional treatment
- Solo use with the following conditions: 1) lack of access to conventional treatments 2) ability to self-treat and experience destabilization with acceptable consequences 3) poor response to, or an inability to use other effective DIY treatments 4) high need of treatment.

Mania or psychosis may be treatable with MDMA-therapy, but they are poorly studied and may be higher-risk treatments.

*SSRIs have small average effects in short term use (long term use is poorly studied) while sometimes causing adverse side effects [23, 18]. Long term benzodiazepine use for anxiety also has low efficacy and significant side effects such as long term mental impairment that persists after discontinuation [129, 10].

Table 1: Averaged outcomes from the first and second phase 3 clinical trials (174 total participants)[85, 84].

	MDMA w/ Therapy	Placebo w/ Therapy
No Response	13 %	35 %
Clinically Meaningful Response	87 %	65 %
Loss of Diagnosis	69 %	40 %
Remission	40 %	13 %

4 The Practice of MDMA-Therapy

4.1 Pacing and Schedule

We suggest Figure 4 as a high-level guide to the therapeutic process.

excercise caution about psychosis and suicide. Evidence is unclear. Why are researchers cautious.

review ssri efficacy and side effects

Discuss nuances of treatment options.

delta colum

list number of therapist-hours

more on what is known and not known. history of underground use

compare to other treatments like exercise, meditation, relationships

interview practitioners for practical scheduling advise.

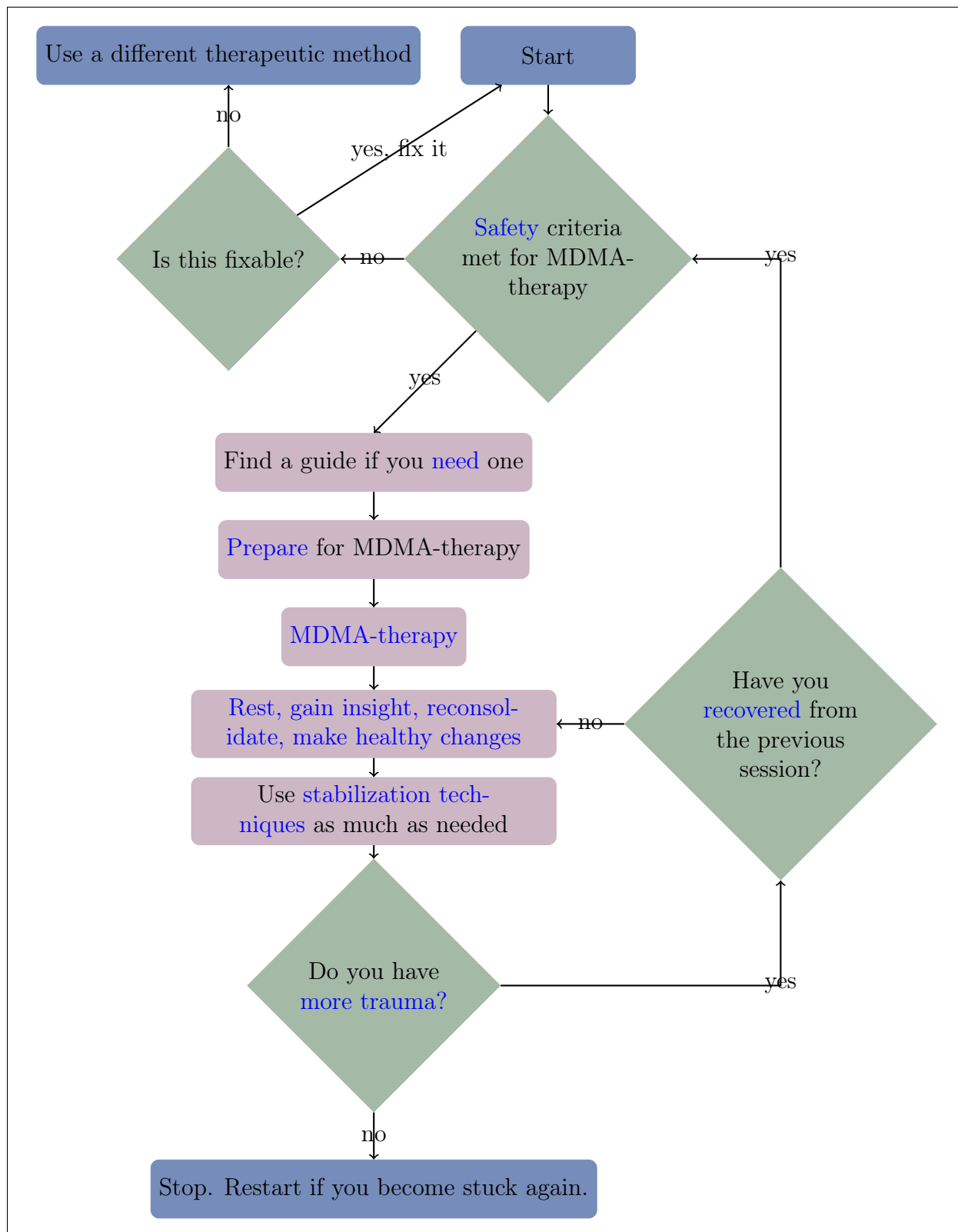


Figure 4: Generalized long-term therapeutic process.

4.2 Professional Guidance vs. Self Guidance

*MDMA-therapy can be successful in a wide variety of contexts including therapist-guided sessions with pre- and post-session support, do-it-yourself couples therapy, and solo therapy [84, 25, 56]. However, we believe working alone with MDMA presents higher risks and a lower healing likelihood compared to partnering with a skilled and well-matched therapist or guide. A skilled and well-matched therapist or guide can provide [87]:

- A greater feeling of safety, enabling more effective healing
- Additional perspective that's hard to see from a first-person view
- Education on trauma, healing, and healthy ways to deal with emotions
- Troubleshooting for problems with the medicine or other parts of the healing journey
- Improved screening for contraindications (conditions that make MDMA too risky to use)
- Management of destabilization to reduce disruptions to your life
- Guidance through difficult therapeutic exercises
- Unadulterated medicine, depending on who you're working with

*We propose the following ranking of options and outcomes. The top of the list represents the lowest risk of adverse outcomes, the highest likelihood of durable healing, and also the highest cost. This list is a general guide and the exact positions of items are debatable, as well as dependent on personal circumstance. Exceptions to the rule always exist. If you decide to self-guide, we recommend making note of a therapist or guide you might want to work with in case you later get into deeper water than you are comfortable with.

1. Continually working with a skilled therapist or guide you align with. *We suggest this for those with severe lack of impulse control or severe symptoms they can't manage themselves, including psychosis, mania, or strong suicidal ideation.*
2. Starting off with a skilled therapist or guide you align with and who is experienced with MDMA, then transitioning to self-guided sessions while maintaining regular check-ins. *We suggest this for most people.*
3. Self-guide all your medicine sessions while maintaining regular sessions with a skilled non-psychedelic-trained therapist or guide you align with. You also educate yourself on the nuances of effective and safe MDMA therapy. *We think this is ok for most people if they can't access an MDMA-experienced professional.*
4. Self-guide all your medicine sessions and do all of your own integration work, perhaps talking about your healing journey with emotionally skilled friends or friends skilled in using safely using psychedelics for healing. You also read literature on trauma healing and psychedelic therapy written by mainstream experts. *We suggest this is a good*

can we make a recommendation matrix or flowchart? Probably too complex.

route for those with high self-emotional knowledge and high skill in managing difficult emotions. This may also be the only option for those who can't access a skilled guide or therapist and feel that the benefits outweigh the risk of destabilization.

5. Self-guide all your medicine sessions and do all of your own integration work. You don't use any high quality reference material and don't understand the nuances of safe and effective healing. Or you work with an inexperienced guide who may harm you by suggesting intense psilocybin, DMT, ayahuasca, or LSD sessions before you are ready. They may also offer distorted or unhealthy interpretations of experiences you have during healing. *We don't recommend this.*

Trauma-therapy presents challenges in addition to its profound benefits. Distressing, previously hidden or avoided emotions are brought to the surface for processing. These emotions may feel destabilizing until they have been fully processed. Destabilization is a sign of therapeutic progress, however, it can negatively impact your life if it is severe enough and not managed well [93]. The conditions below increase the chances of lasting healing and reduce risk of destabilization. While meeting all of them is not necessary for success, the more you have, the better it will go. Consider these carefully when deciding what degree of professional guidance you need:

- Access to resources: Stable housing, financial security, and friends or family skilled in emotional support.
- When working with a therapist or guide: Your empathy and regard for each other, agreement on goals and methods, and therapist skill with facilitating reconsolidation. These factors impact outcomes more than the choice of therapeutic framework [149].
- Understanding of healthy emotional behaviors (awareness of difficult moods and tools to manage them, conflict resolution, etc.).
- Perseverance to navigate challenges in the healing process.
- Time for and access to a secure and inviting space for your sessions, post-session rest, and reflection.
- Independence from those who have traumatized you, if they might react poorly to your insights and improvements. Most maladaptive schemas protected you at one point in your life. Dismantling these protections while you are still in a dangerous situation could be bad.
- A habit of inquiring why you have the beliefs and behaviors you do. Acknowledgement that many of them are strongly influenced to psychological and social factors, particularly from early-childhood [21].
- Absence of other severe trauma responses such as severe complex PTSD, childhood abuse, attachment disorders, etc.
- Ability to identify dysregulation.

how to identify high quality peer support. What to avoid. What to look for.

how to identify bad/good?

list things that inform choice. Don't list things that influence outcomes for either choice, like motivation.

prep for mdma (meditation); more compassionate phrasing

impulse control,

compassionate curiosity habit, reframe

Self-assessment of the severity of your problems is useful for this last item. This is difficult since our schemas are largely unconscious, but there are some methods:

- The Attachment Style Test can be used for self-evaluation of attachment disorders, one common type of complex trauma [105].
- GAD-7
- PHQ-9 or 17
- ACE Quiz
- sprint self report PTSD
- cbirt

*We recommend Psychedelic Passage, a referral service for people seeking psychedelic guides [98]. We also recommend the MAPS Psychedelic Integration List, "a resource of individuals and organizations in the mental health field who help people integrate past psychedelic experiences [109]." When working with a therapist or guide, we recommend filling out the Brief Revised Working Alliance Inventory every few months and discussing it with your professional [50, 76]. This can help you assess how this therapeutic relationship is working for you.

what is risk of
trying a ses-
sion casually?

4.3 *Safety

MDMA-therapy is generally well-tolerated, but there are dangerous or deadly drug interactions, medical contraindications, notable side effects, and psychological risks that we discuss below. As further detailed in later subsections, MDMA-related medical problems are generally caused by [114, 119]:

- Prolonged, intense physical activity in high temperatures combined with dehydration. This may cause heat exhaustion or heat stroke. High water consumption not balanced with salt can also cause dangerously low sodium levels. Alcohol co-use strongly exacerbates the risk of these problems. Potentially deadly.
- Taking MAOIs within 2 weeks of a session. Potentially deadly.
- Interactions with other medications. Ritonavir, opioids, benzodiazepines, amphetamines, stimulants, caffeine, anesthetics, MDMA metabolites or analogs, muscle relaxants, olanzapine, and metoclopramide may be particularly dangerous and occasionally deadly. Discontinuing medications for 5 drug half-lives before the session and 2 days after the session generally assures a significant amount of the other drug won't be in your body at the same time as a significant amount of MDMA. As with MAOI's, this doesn't prevent all interaction problems. Discussing drug combinations with a doctor or pharmacist may be necessary.
- Pre-existing liver problems, cardiovascular problems, or other potentially relevant health issues. Potentially deadly.

- High or frequent doses. Clinical trials found 120mg + 60mg (booster taken 1.5-2 hours after the initial dose) once every 6 weeks to be very well tolerated. Thresholds and risk unclear.
- Adulterated pills. This can be checked with test kits. Risk unclear.
- Driving or other dangerous activities on the day of the session. Potentially deadly.

In a highly supportive setting with medical screening of participants, both phase 3 clinical trials measured no serious or long term adverse effects (among the set of outcomes they looked at) at 6-week spacing for 3 sessions with 180 mg MDMA (combined measure of primary and supplemental doses) [85, 84]. Higher doses, more frequent sessions, and a greater number of sessions are likely safe, but it's unknown where the limits are and experimentation can be risky. Doing more than three sessions is likely safe but could potentially introduce unknown risks, which should be weighed against potential benefits.

Observational human studies and controlled high-dose animal studies have found that MDMA causes neurotoxicity or cognitive problems [99]. However, these problems have not been found in controlled studies in humans [53, 85]. The human observational studies that find problems usually fail to adequately control for multiple-drug use, a significant risk factor. Notably, Halpern et al. did control for co-use of other harmful substances and found no long-term effects of recreational use. The animal studies that found problems typically used extreme doses, extreme frequencies of dosing, or injected the medicine, a significantly riskier method of administration than swallowing a pill [99]. Some studies have reliably found serotonin system alterations in humans but it hasn't been established that these are clinically significant or negative, and the effect decreases with abstinence [48]. These effects also do not appear to translate into measureable cognitive problems in Halpern et al's. study. Fear and misinformation about MDMA is widespread due to the War on Drugs, sensationalization of poor quality research, and misattribution of MDMA-related deaths as an inherent risk of MDMA instead of its avoidable interactions with other medications and pre-existing health conditions, and the risks of heat illness or hyponatremia at raves [99]. See chapter "The Toxicity Debate" in "The History of MDMA" by Torsten Passie for a comprehensive overview of the subject.

On a population level, recreational MDMA use leads to acute injury far less often than horse riding does, for instance [92]. When acute harm does result in death, it is almost always caused by the previously listed avoidable mechanisms [114].

Side effects temporarily experienced during the session are generally mild-moderate, well-tolerated, and include, starting from the most common: muscle tightness, nausea, decreased appetite, sweating, feeling hot or cold, tingling sensation, chest discomfort, dry mouth, chills, feeling jittery, restlessness, blurred vision, jaw clenching, rapid eye movement, pupil dilation, and tremors [84]. While some of these are caused by MDMA, others are an effect of a heightened ANS state activated by emotional memories during trauma therapy [66].

Drug Interactions

- Reuptake inhibitor medications, including SSRIs, SNRIs, NRIs, and NDRI, highly inhibit the effects of MDMA long after discontinuation [41]. Discontinuation 25 days

before an MDMA session still reduces therapeutic efficacy of MDMA-therapy by about half. Further discontinuation may bring further benefits. Discontinuation typically requires multiple additional weeks of tapering to manage withdrawal.

- The interactions between MDMA and many drugs remain uncertain, and self-experimentation could lead to unforeseen complications [24, 123]. We suggest avoiding all other medications for 5 drug half-lives (The point at which 97% of a drug has been excreted from your body. Each drug has a different half-life.) before the session and 2 days (5 MDMA half-lives) after the session unless you have discussed the combination with a doctor or pharmacist [8, 31]. The following drugs are correlated with adverse outcomes when used with MDMA, though cause and effect remain unclear: opioids, benzodiazepines, amphetamines, stimulants, anesthetics, MDMA metabolites or analogs, muscle relaxants, olanzapine, and metoclopramide [24]. Caffeine may also cause problems [145].
- MAOIs can cause a dangerous or deadly effect known as serotonin syndrome when taken within two weeks of an MDMA session [75, 36].
- The liver enzymes CYP2D6, CYP1A2, CYP2B6, CYP2C19, CYP3A4, and COMT metabolize MDMA [32, 123]. Exercise caution taking other drugs (especially high doses) that these enzymes metabolize, as this metabolic path may overload and reduce clearance of these drugs from your body. Drugs that inhibit these enzymes, such as ritonavir, are dangerous to take with MDMA. We have not been able to locate an accessible and comprehensive list of these drugs and recommend asking a doctor or pharmacist.
- Pills marketed as MDMA often contain harmful adulterants [121]. We suggest using test kits, such as DanceSafe's, to verify the substance's purity if there's any doubt about its quality [28].

Medical Contraindications and Notable Side Effects

- MDMA has multiple interactions with the cardiovascular system [17]. Pre-existing cardiovascular problems, high doses, frequent use, and co-use of other drugs heighten risk of cardiovascular injury.
- Problems with the liver or liver enzymes CYP2D6, CYP1A2, CYP2B6, CYP2C19, CYP3A4, and COMT may prevent metabolism of MDMA and cause problems [32].
- MDMA, like many medicines, may have rare, poorly understood side effects.
- Dangerous overheating or low sodium levels may occur if MDMA is combined with dehydration, intense physical activity, a hot/humid environment, and lack of electrolytes, as sometimes occurs at dance parties [7]. This is not a problem with a comfortable environment, appropriate hydration, and lack of intense physical activity [85]. Exercise increased caution if your body has serious problems regulating its temperature. Alcohol co-use also significantly exacerbates the risk of heat illness and hyponatremia.

can a professional say more about this?

- Planning careful or reduced movement during altered states of consciousness may be advisable if your body is prone to injury from otherwise typical human movement. A sitter, guide, or therapist could help you with this during the session, or you could put an obvious reminder sign in your field of view.

is this of practical concern?

Psychological Risks

- Overwhelming emotions from severe trauma often trigger pervasive dissociation that hides these feelings from conscious awareness [111]. Reducing this dissociation is necessary to reconsolidate the triggering schemas. Trauma therapy often reduces dissociation faster than it reconsolidates the distressing schemas the dissociation was hiding. That sometimes results in significant distress until those schemas are healed through further therapy. Larger amounts of trauma and the rapidity of healing with MDMA increase the likelihood of this distress becoming destabilizing or disruptive to your life. We suggest more application of grounding techniques is necessary in instances of destabilization.
- Some personality disorders are likely treatable with MDMA-therapy [140]. These conditions involve extremely strong resistance, and destabilization during therapy may be intense [111]. Extensive development of internal resources and highly supportive and skilled external support become more important.
- Psychosis induced by therapeutic doses of MDMA without confounding factors appears to be exceptionally rare. There have been no incidents of psychosis in clinical trials, but patients with existing psychotic symptoms were excluded from participation [132, 84]. Multiple case studies report psychosis following recreational MDMA-ingestion, though they almost always involved confounding factors like use of other psychoactive drugs, lack of verification of MDMA ingestion, dehydration, extreme doses, or extreme frequency of use [79, 101, 144]. We only found one case study describing psychosis following a single purported dose. Even if the risk of MDMA-induced psychosis is very low, the consequences of psychosis are high. Because of this, we suggest that a family or personal history of psychosis is a strong indication to work with a professional guide or therapist who understands psychosis well.
- Possession of multiple doses may be risky for those with severely impaired impulse control.
- Altered states of consciousness can impair awareness and judgement. Avoid driving, operating heavy machinery, and other risky activities on the same day as the session.
- No clear connection between MDMA and suicidal ideation has been found and correlational studies have had mixed results [61, 60, 64]. However, as therapy can bring existing schemas (potentially ones containing suicidal beliefs) into greater awareness, we suggest increased caution for those with suicidal ideation.

risks of problems from destabilization are strong indication to work with a skilled and aligned professional

community care if you can't access professional

how much? what supports?

mania

Common Concerns

- **Discomfort with Drugs** While MDMA-therapy is not for everyone, healing can happen even when discomfort is present during a session because MDMA rewrites patterns of discomfort that you stay present with [40]. Fear of drugs could be transformed like any other fear.
- **Loss of Control** While engagement with distressing memories can be intense, people regularly have clear, complex, and emotionally nuanced conversations on MDMA [25, 99]. MDMA creates intense feelings of love and safety that make aggressive behavior unlikely.
- **Drug Stigma** Many drugs are harmful, however, during the War on Drugs a wide variety of psychoactive substances were further stigmatized and categorized as harmful without clear evidence-based distinctions regarding their actual risk [4, 91]. While there were complex motivations for the War on Drugs, it functions and persists primarily as moral panic, a means to punish certain groups of people, and a means for politicians to disenfranchise and ostracize the voter base of their political opponents. There is little correlation between the legality of psychedelics and their potential for harm [91].
- **Hallucinations** Complex or compelling hallucinations on MDMA are rare and correlated with higher doses [71]. Temporary and mild visual changes such as color and texture enhancement are common. Long-lasting visual effects from MDMA are unrecorded in studied therapeutic contexts [146]. The rare occurrences of Hallucinogen Persisting Perceptual Disorder in recreational use of psychoactive substances may be associated with trauma-related dissociation [52].
- **Addiction** MDMA addiction is rare to nonexistent in supportive therapeutic contexts where it has been formally studied [84, 85]. Physical dependence has not been found in rodent studies, even at extreme dosing schedules [115]. MDMA-therapy also reduced alcohol addiction among clinical trial participants [90]. However, we suggest that MDMA, like most potentially pleasurable experiences, can be overused when it is used for escapism rather than therapy. We also suggest that MDMA can be overused when an individual wishes to accomplish a great amount of therapy quickly but does not understand the critical need for sufficient sleep between sessions or the quickly-developed tolerance to MDMA in the brain [148, 39]. As previously discussed, there have been many flaws in studies on MDMA abuse. Consequently, little is known about the effects of abusing MDMA, or even what constitutes abuse. If you are worried about your potential for addiction, we suggest the following: only possessing one dose at a time, only obtaining MDMA from a trusted mental health professional who can monitor your abuse potential, prioritizing diving deeper into traumatic memories during sessions may reduce the pleasure of the experience, or combining MDMA with a small amount (<0.5g) of dried psilocybin mushrooms may also reduce the pleasure of the experience for those with significant trauma.
- **Neurotoxicity** No clear indications of MDMA neurotoxicity have been found in humans [99, 53]. However, MDMA is known to cause oxidative stress in the brain (possibly a form of neurotoxicity) at very high doses in animal tests. This may also happen at

do I really want to suggest mushrooms here

sufficiently high doses in humans, though it has not been demonstrated. High doses of certain antioxidants, including alpha-lipoic acid, ascorbic acid, and acetyl-L-carnitine, administered shortly before and during the session, have been shown to reduce or prevent oxidative stress in rats [2, 128, 6]. Some companies bundle these antioxidants together in commercially available products, but they have not been rigorously tested in humans and their usefulness is unclear [116]. Heat stroke from intense physical activity and dehydration can also cause brain damage [152].

- **Is MDMA a Natural Substance?** MDMA is generally made by modifying the plant compounds safrole or piperonal [151]. When properly conducted, this process results in pure MDMA crystals. Single-substance purity greatly improves the ability to produce accurate, safe, and reliable doses. MDMA test kits are useful if you don't trust the source of your medicine.

day write
more

4.4 Dosing

*Accurate dosing is an important factor in efficacy and safety. The effects of MDMA are strongly dependent on MDMA plasma concentration, which is positively correlated with dose and negatively correlated with body weight [136]. Despite effects being dependent on body weight, most data is only available from fixed dose studies. Too low of a dose (0.75 mg/kg, for example) will likely not provide the safety and empathy needed for healing [13]. On the high side, undesirable effects can start increasing at doses over 120 mg and may overtake desirable effects at doses over 160 mg in the average person [22]. Two doses of 5 mg/kg on consecutive days is known to possibly cause long-term side effects in rats [11]. The phase III clinical trials found fixed doses consisting of an 80-120 mg initial dose followed by a half-strength supplemental dose administered 1.5-2 hours later were generally effective and safe for medically screened participants [84]. Adjusting dosage in subsequent sessions may be necessary to reduce adverse effects, increase feelings of safety, or adjust for individual body chemistry.

When applying scientific studies to one's own life and health, it is important to remember that the data we glean from these studies flattens a wide variety of individual responses by combining them into readable averages. You as an individual may experience something very different from the average participant of any given study, and that may be totally normal and fine. Some examples include: you may be much more or less sensitive to the psychological or physical impacts of MDMA. The medicine may impact you for a greater or lesser amount of time than it impacts the average person. You may experience more healing, faster, than the average study participant, or you may not be helped by MDMA at all. Many normal human variations, like low or high body weight, recent pregnancy, or menstrual cycle status clearly have an impact on many mental health interventions (especially when it comes to effective dosage), but are not typically studied at all.

One of the great frustrations of mental healthcare research is that every real life situation is infinitely complex, and a corresponding infinity of confounding factors have the potential to influence outcomes. We encourage you to discuss with your clinician any difference in what you are experiencing (during any mental health intervention) from what the average response is that you might have expected from the research. It's important to both keep

an eye on any health and safety concerns that might be related to your response, while also remembering that the range of normal and healthy responses to any mental health intervention is much broader than the averages suggest.

4.5 Session Difficulties

*Dissociation and resistance are the primary challenges in trauma therapy. While these may have protected us at one point, they also block reconsolidation. We aim to reduce them to a level that enables reconsolidation without causing overwhelm.

4.5.1 *Dissociation

Dissociation often presents as emotional numbness or tiredness. It is a defensive mechanism similar to playing-dead that is associated with trauma in situations of powerlessness [73].

Curious investigation or meditation on the dissociation, boredom, sobriety, blankness, or numbness for minutes to hours will often reduce the dissociation and reveal underlying emotional material (see Appendix A.5) [111]. Increasing feelings of safety by altering the environment, finding a more-attuned therapist, or increasing the dose on the next session may also help. If dissociation persists, another method such as PSIP may be necessary [111].

Anti-dissociative medications like naltrexone or naloxone may help. Naltrexone requires a prescription and collaboration with a medical professional is necessary. We suggest starting with low doses, as dissociation often covers up overwhelming emotions.

4.5.2 Resistance or Distraction

Selective inhibition (suppression of minor movements and comforting behaviors, and attune-ment to uncomfortable feelings) may help [111].

I think LSD and psilocybin are potent tools for reducing resistance. Mixing LSD or psilo-cybin with MDMA is widely practiced, though poorly studied [153]. We suggest starting with very low doses because LSD or psilocybin-assisted psychotherapy are known for deeply challenging experiences. Adding up to 0.5 g dried psilocybe mushrooms at the beginning of the MDMA session reliably decreases resistance. It also increases the intensity and dis-comfort of the session. Do not take more than 0.5 g unless you are deeply familiar with the combination. See Section 5.3 for more information. This combination is common practice in MDMA-therapy, but no studies have been done [26]. Acutely safe co-use is known from recreational contexts [153].

Increasing the MDMA dose on the next session may help by increasing feelings of safety, which can reduce dissociation.

Day write.
Work together
session.

association
with addictive
patterns?

learn to iden-
tify dissoci-
ation before
session

be strategic
with dissocia-
tion; may be
helpful some-
times

mindfulness

does body
scan medi-
tation work
here?

cite

brings trigger-
ing material
and notes on
what you want
to address
or a mantra
about staying
present with
difficult things

guide/therapist
can help with
this really well

cite

ask multiple
clinicians for
their experi-
ence.

4.6 Pre-Session Preparation

Proper planning of a session is important for comfort, safety, and success. We divide planning into four categories, Mental, Environmenten, Tools, and Post-Session:

Mental Preparation:

- acceptance of possible experiences
- Journal about the things, places, practices, people, or situations with whom you feel safe and at home, and with whom you feel unsafe. Then make a diagram with two axes, safe-feeling and accessibility. Plot at least the top 10 items you journaled about on this diagram. Identify the items that are both safe and accessible and keep them in mind for:
 - Trauma therapy sometimes involves an aspect of "it gets worse before it gets better." We suggest planning increased time with the safe items and decreased time with the unsafe items in the days and weeks following your session.
- how to notice dissociation and resistance
- habit mapping (unwinding anxiety)
- Shame mapping can help you identify many core schemas. See [A.1](#) for details.
- Practice LK, focus meditation
- practice thought record
- Approach the session intending to compassionately face and heal your distress. We think expectations are likely part of the therapeutic context.
- Avoid rigid expectations of what schemas you will face [\[87\]](#). Conscious awareness of their true nature is often unreliable because these memories are overwhelming, dissociated, or avoided.
- Catch up on sleep, a critical factor of reconsolidation [\[148\]](#).
- Think or write about what challenges or emotional difficulties you would like to address during the session.

***Environment:**

- Sessions are usually started in the morning. MDMA's stimulant effect may prevent sleep if the session is started later [\[16\]](#).
- Eating is avoided if possible on the morning of the session because some people experience nausea [\[87\]](#).
- Arranging easy access to necessities like a restroom, snacks, and water will reduce distractions during the session.
- Prepare your environment or travel somewhere to maximize your feeling of peace, at-home-ness, comfort, and safety. These will add to the feeling of safety from the medicine and ease down dissociation and resistance and increase the emotion mismatch. We suggest carefully expanding your session environment can be beneficial once you are experienced with the medicine. For example, if you have trauma from dogs, you could

safely trigger that schema by petting a dog who you know won't act aggressively, and whos human is nearby to calm them down if you feel like the experience is too much to handle. Or, if you are afraid of leaving your house, you could go on a walk in your yard or neighborhood.

- Remove distractions and danger, ensuring inward focus.
- Solitude, except for a trusted and experienced guide, therapist, or sitter, promotes inward-focus and healing. A sitter can help with logistics, hold your hand (Discuss this first. Explicit boundaries are essential in altered states of consciousness.), listen to your feelings, or handle mundane events like someone knocking at the door [87, 139]. Sitters should possess trustworthiness, presence (ability to listen to your distress without becoming distressed themselves), and empathy. Interacting with strangers may cause problems if they do not understand what is happening.

ladder of bids

*Tools:

- Consider self-narrating your session and recording it on your phone [87]. Listening to this after the session can spur insight.
- We suggest bringing triggering materials, like photographs or letters, to look at if distressing schemas don't spontaneously arise. See section 4.7 for more discussion on differentiating distractions.
- Eye shades and noise-cancelling headphones can reduce distractions.
- Music is commonly used to evoke distressing emotional memories [87]. MAPS has two MDMA-therapy playlists on Spotify [107, 108]. We suggest creating art or music may also help you evoke distressing schemas.
- MDMA can cause jaw clenching and headaches [84, 71]. Some individuals use mouthguards or pacifiers to reduce this effect or protect their teeth [37]. Over-the-counter pain relievers may help after the session. Those with jaw problems may need to be more cautious or use lower doses.
- The Fireside Project offers a hot-line to help people through challenging psychedelic experiences at (623) 473-7433 in the United States [104]. Keeping this number in your phone may serve as an additional layer of safety.

info specific to tmj?

*Post-Session Rest, Insight, and Additional Reconsolidation:

- We suggest planning for two extra days of exhaustion by prepping food and a comfortable place to rest.
- We suggest making a plan to try different techniques on subsequent sessions if you're worried that this first MDMA session might not work and is your only chance for healing.
- Therapy sessions are often scheduled for the day after an MDMA session [87].

cite

why? modes?

- Make a plan to process your experience in the following days and weeks [87]. Common ways to do this includes journaling, nature walks, body movement practices, transcribing a recording of your session, and art.
- Obtain reading material from the Bibliography (Section A.9).
- High quality sleep is important to solidify the reconsolidation you did [148]. We suggest a highly effective evidence-based protocol called *Cognitive Behavioral Therapy for Insomnia* if you struggle getting quality sleep. We recommend the Stanford Medicine guide [81].

details on how to do this. day write?

4.7 The MDMA Therapy Session

*The effects of a single MDMA dose are generally noticeable 30 min after taking the medicine, peak an hour after than, then last a further 3 hours [146]. We warn you not to take more MDMA during a session than you initially planned to. Desires to do this are usually based in anxiety or dissociation and can result in increased adverse effects [22]. Stay quietly present with those states rather than adding more medicine during a session. Food delays its effects [86]. We divide the session into phases based on subjective effects and therapeutic potential:

Come-up: The effects of MDMA become noticeable, but you are not yet engaging with the memories you want to work on. Some users experience anxiety [56]. We speculate this might be from the body interpreting stimulation as anxiety, early engagement with distressing memories, or fears about the session. We suggest practicing loving-kindness meditation for yourself and your dissociation or avoidance (see Appendix A.5). The feelings of compassion could ease down dissociation and resistance.

Peak: Reconsolidation is possible here. Connection and safety become pronounced and outweigh anxiety, though you may not notice this if you directly transition to engagement with distressing memories. A booster dose taken at hour 1.5 extends this phase by 1.5 hours.

You may feel what is called resistance. This can be a few things: 1) Simple avoidance of emotional pain because it is uncomfortable. 2) Beliefs that say confronting/healing emotions is bad. 3) Beliefs of the activated schema that say their protective function is very important.

While the protective function of these schemas was important at one point, it has become an impediment. Your first task is maintaining focus on activated schemas in the face of resistance. This enables reconsolidation. You can think of it as focus-meditation where you hold the emotion or belief of the schema in focus and dismiss distractions. This can be uncomfortable, but the MDMA almost always makes it bearable. Insightful thoughts about how trauma impacted you or insights into human behavior may arise. Spend time on them if they feel cathartic or important. Leave them until after the session if they don't feel cathartic or important, reserving limited session time for reconsolidation or other cathartic processes.

Your second task is monitoring for dissociation and resistance. These can be hard to notice. Assume they are blocking healing any time you are not feeling discomfort (fear, anger, resentment, sadness, etc.), reevaluating difficult experiences from a place of ok-ness, or experiencing some other cathartic process. Sleepiness and intellectualization are also signs. Refer to Section 4.5 for more information.

hold schema with compassionate curiosity and agnosticism of its truth

cathartic = what I talk about in the next paragraph. Take out cathartic.

Experiencing profound peace and self-love can be deeply healing and shouldn't be avoided if it is providing an important disconfirming experience, though at some point engaging with distressing schemas is necessary to continue healing. This view of the end goal can be a great motivator for staying on the healing journey long-term through challenges. It also provides a powerful memory you can later use as a mismatch to reconsolidate many schemas when not using medicine. The peace and compassion may not last long after this first session, but you will gradually get it some of it back as you reconsolidate various maladaptive schemas over multiple sessions.

*MDMA rarely produces uncontrolled or unbearable experiences [84, 85]. Staying present with feelings of panic or overwhelm or just hanging-on almost always resolves the distress [87]. Trying to avoid the distress through any type of distraction will only prolong the distress. We suggest calling the Fireside Project hotline at (623) 473-7433 in the United States if the panic or overwhelm doesn't eventually improve [104].

*We recommend focusing on reconsolidation as long as possible because session time is limited and valuable.

*We suggest not calling or texting anyone unless you know they will be comfortable talking to you in your altered state.

***Come-down:** Temporary exhaustion or depleted capacity to process emotions is common after trauma-therapy. The effects of the medicine are still moderate, but reconsolidation is no longer achievable.

***After-effects:** Trace effects may be felt for longer since MDMA takes multiple days to completely leave the body [31].

why is it important to focus on activated schemas? what am I warning against? how do I know that thing is bad?

when should i call? what symptoms are actually worrying?

4.8 *Troubleshooting the Session

4.8.1 Sleepiness

MDMA is a strong stimulant and generally increases feelings of energy. Activating (perhaps unconsciously) schemas of powerlessness during therapy commonly triggers dissociation, which often includes sleepiness [66]. We suggest dissociation is the most likely cause for sleepiness during a session, through atypical responses to stimulants or sleep disorders could conceivably also play a role. See Section 4.5 for suggestions on working with dissociation.

4.8.2 Not feeling anything or feeling "meh"

- We suggest you may be inadvertently avoiding an unnoticed feeling (avoidance, resistance or dissociation). Practice different types of meditation (see Section A.6) for 30 minutes to help you notice and engage with subtle feelings.
- Long-term use of reuptake-inhibitor antidepressants blunts the effects of MDMA [41]. This effect may persist for multiple months after discontinuing these medicines.
- The dose may have been too low [13]. See Section 4.4.
- The substance might have been something other than MDMA [121]. Testing can prevent this problem.

-
- Some medicines work very differently with some individuals' body chemistries.

if you have experience strong Alexithymia before the session, and the session doesn't go well, consider treatment for alexythymia before more MDMA

4.8.3 New adverse symptom after a session

Trauma therapy often follows a pattern of feeling worse before it feels better [65]. As some schemas are healed and dissociation is reduced, you will notice previously hidden distressing schemas. This is uncomfortable and distressing emotional memories can have a wide variety of mental and physical symptoms [67, 55]. Continuing with therapy will reduce the backlog of distressing schemas. Sometimes you need to develop symptom management skills or resources to manage the immediate problem, as detailed in Section 4.9. If you seek medical assessment, it is beneficial to find a medical professional who understands the physical and psychological symptoms of trauma . It would be ideal to find a medical professional who will anticipate and accommodate your trauma-related safety needs, or at least be willing to listen and adapt. Unfortunately, the United States currently has a severely over-stressed medical system where medical professionals are frequently both undertrained on these topics and lacking the skills to effectively implement the understanding they do have. Additionally, many under-supported healthcare professionals are arguably undergoing extended workplace trauma themselves, which does not necessarily lend itself to optimal patient care. As such, we recommend taking a posture of firmly compassionate self-advocacy wherever possible. You deserve safe and trauma informed care; whether you receive this care or not is not a reflection of what you deserve. You may wish to take notes about the symptoms you are experiencing or collect data (like the safety section of this document) about the safety of MDMA to bring with you to your medical appointment; these measures can help you support your healthcare professionals in giving you the best quality of care possible.

[107]

link to defense cascade

For a strong basic education on psychogenic physical illness, with an emphasis on the understanding most needed from a patient's perspective, we recommend <https://www.youtube.com/watch?v=>

link

4.8.4 Feeling bad for 1-3 days after a session

Post-reconsolidation exhaustion and low-mood are common and temporary and is sometimes called "therapy hangover." The strong stimulant effects of the medicine may also be tiring. We have observed that this usually lasts 1-2 days following MDMA therapy. If low mood or exhaustion extends beyond 3 days, we suggest this may be a symptom of a schema you uncovered during the session.

see the relevant bullet in the preparation section about preparing food and emotional support, do safety exercise before session and plan to spend some time with people who help you feel safe during this period who can also prompt you to do nice things like going for a walk

4.9 After the Session

*Physical and emotional exhaustion is common and healthy after therapy and reconsolidation. Because MDMA-therapy is so intense, we suggest planning for 1-2 more days of exhaustion post-session. We speculate this may be reconsolidation-fatigue, neurotransmitter depletion, or the effects of a stressed ANS [111]. We suggest plenty of rest and comforting yourself in ways good for you. Ensure your schedule is clear of major commitments or stressors in the days following.

list of good comforting techniques

Healing is a complexly layered process. As one layer of emotional distress is calmed, other schemas usually activate and/or become more visible. Though initially challenging, consistent effort will lead to long-term improvement [65]. This cycle is noticeable both in the long-term (months-years) and short-term (the week after a session may feel more volatile than normal). We suggest not judging a session until 1-2 weeks have passed.

*You will experience more time in the mind's relaxed state when maladaptive schemas/parts heal. The Internal Family Systems framework proposes this relaxed state consists of calmness, clarity, curiosity, compassion, confidence, courage, creativity, connectedness, perspective, joy, patience, kindness, equanimity, playfulness, and love [126]. Periods of dysfunction will remain, but will become less frequent. If the maladaptive schemas are severe, it might take quite a lot of healing to get to the point where anything feels ok. We suggest staying on top of reconsolidation and ANS deactivation, and avoiding triggering situations will help.

[hyperlink to section management](#)

4.9.1 Making Sense of the Experience

When applying scientific studies to one's own life and health, it is important to remember that the data we glean from these studies flattens a wide variety of individual responses by combining them into readable averages. You as an individual may experience something very different from the average participant of any given study, and that may be totally normal and fine. Some examples include: you may be much more or less sensitive to the psychological or physical impacts of MDMA. The medicine may impact you for a greater or lesser amount of time than it impacts the average person. You may experience more healing, faster, than the average study participant, or you may not be helped by MDMA at all. Many normal human variations, like low or high body weight, recent pregnancy, or menstrual cycle status clearly have an impact on many mental health interventions (especially when it comes to effective dosage), but are not typically studied at all.

One of the great frustrations of mental healthcare research is that every real life situation is infinitely complex, and a corresponding infinity of confounding factors have the potential to influence outcomes. We encourage you to discuss with your clinician any difference in what you are experiencing (during any mental health intervention) from what the average response is that you might have expected from the research. It's important to both keep an eye on any health and safety concerns that might be related to your response, while also remembering that the range of normal and healthy responses to any mental health intervention is much broader than the averages suggest.

The intense emotions and beliefs you felt during the session may have been the schemas that have been negatively affecting your life. You will react and think differently now after the emotions and beliefs of your schema have updated. Pay attention to what thoughts and reactions are different from before the session, and you will learn you how the trauma shaped your feelings and behaviors in the past. Common ways to identify these differences includes journaling, nature walks, making art, body movement practices, listening to recordings of your sessions if you self-narrate during the session, meditation, and talking through your experiences with an emotionally skilled friend or clinician [87].

When a schema is healed you should notice that although the pain and maladaptive beliefs and behavior are diminished, a level of caution remains. If this caution is helpful rather than overwhelming, then this is the schema in its adaptive, rather than maladaptive

form. This caution will aid you in avoiding future harm.

You may experience feelings of intense and spontaneous compassion, connectedness, or love triggered by various things. We speculate these are flashbacks to the MDMA session and will gradually dissipate as the memory is reconsolidated. These increases in compassion almost always have good consequences for you and those around you.

You might have had profound feelings or thoughts about various belief systems, sociocultural systems, organizations, etc. MDMA can spur profound insights. The feelings of trust, safety, and increased perspective inherent to many MDMA experiences can cause us to take the profound thoughts and feelings we have during those experiences as objective truth, which they may or may not be [54]. Rather, MDMA can offer a new perspective based on a state of heightened, but incomplete compassion and safety. Even in this exceptional state, all your still-unconscious emotions are deeply influencing your beliefs and feelings. Your more reliable tools of discernment, compassion and cognitive and emotional flexibility, will gradually improve as you continue reconsolidating schemas. Using that increasing flexibility and compassion to rigorously and critically engage with a diverse and challenging set of reliable information and experiences will more reliably lead you to what is objectively accurate or helpful for your life than profound session insights [14]. Seek high quality critiques of your beliefs and incorporate beliefs into rigorous higher level frameworks [120]. Correct for cognitive biases and aim for a balanced perspective when evaluating new ideas [46].

PTSD makes us feel as though we are by our nature isolated; MDMA can help people feel as though they are by their nature connected to one another. This may be one of the central mechanisms of healing that both therapy and MDMA provide.

Spiritual bypass is a "tendency to use spiritual ideas and practices to sidestep or avoid facing unresolved emotional issues, psychological wounds, and unfinished developmental tasks". . This results in maladaptive patterns and interrupted psychological development . The term was introduced in the mid 1980s by John Welwood, a Buddhist teacher and psychotherapist. Because MDMA can produce profound spiritual experiences for those individuals who interpret their MDMA experience in a spiritual way, it may be important to take care to avoid spiritual bypass if MDMA experiences are to actually facilitate healing. In particular, the profundity of many MDMA experiences may lead one to feel that focusing on painful maladaptive schemas is simply no longer necessary; however, without that focus, the schemas will not be reconsolidated, and healing will not be accomplished to the degree it otherwise could be.

Sometimes individuals may feel they are receiving a spiritual message from the medicine, stating that their healing is complete and further medicine work is not appropriate for them. Alternately, the message may take an alternate form, like, "the medicine has done all it can do for me, and now I need to focus on some specific practical aspect of my life." Although practical life circumstances can have an enormous impact on mental health, and we wouldn't want to discourage anyone from fighting for a healthier life situation, we do caution individuals and clinicians who encounter this scenario to be mindful of the possibility that these messages may also be forms of resistance. To understand what is insight and what is resistance, it may be helpful to examine what symptoms and side effects remain active in an individual's life. It may also be helpful to spend time with the negative feelings about further medicine work in the context of reconsolidation exercises, whether assisted by medicine or otherwise. For further discussion of how to decide when to stop using medicine, see

wikipedia citation

cite

elsewhere in text.

Healing experiences are often, to one degree or another, stressful. Although stress is often regarded as harmful in modern US culture, it is crucial to both meaning and personal growth. You only experience stress when things matter to you, and a stress-free life is a life of apathy and meaninglessness. It is stressful, but also helpful and important, to sit with the discomfort of a maladaptive schema or a mismatch. Even our original traumas could not have harmed us if we did not value the things we value—trauma is intrinsically connected to meaning. As you progress, try to differentiate between adaptive stress, which may alert you to immediate dangers or motivate beneficial actions, and maladaptive stress—which is more than you are able to process or respond to in a healthy way. A good clinician or guide can help you gain insight into which stress is helpful for you and which stress is more likely to harm. A good clinician or guide who is up-to-date on the research on this topic can also help you re-frame stress in a way that greatly reduces its negative impacts on you, even on a physiological level. For a comprehensive discussion of the dual nature of stress and the importance of adaptive framings of stress, refer to *The Upside of Stress* [78].

You may also have remembered events you weren't aware you experienced. The complexities of recovered memories are strongly debated within psychology, but there are some general guidelines: While the emotional tone of a recovered memory is a reliable indicator of your subjective experience, episodic memory is flexible and amenable to change over time [113]. The episodic gist (the overarching theme of a remembered event) is also significantly more reliable than episodic details. Trauma can further impair episodic memory formation, sometimes leading to missing or fragmented memories of traumatic events [65]. Time passed since the event and the number of times you have recalled the memory also decrease reliability [68]. Use extra caution with psychedelics, as they can increase mental imagery and feelings of significance [51, 30]. MDMA may also slightly change recollection of episodic details of emotionally charged memories [34]. Seek independent corroboration of recovered memories if possible. Due to the power of suggestion, therapists and guides should avoid leading questions, suggestive techniques, and undue influence that might inadvertently plant or reinforce unfounded memories of childhood abuse.

Relatedly, you may recall feelings or beliefs not clearly related to a specific event. These often come from early childhood, when emotional memories form before you are able to form episodic memories [21].

In Western culture we place a kind of premium on having a continuous and linear narrative understanding of ourselves and our place in the world. This value set can serve to further disempower survivors of trauma, especially childhood abuse, because the nature of memory and the shame and taboo surrounding abuse experiences often preclude clear and objective understandings of what exactly happened in our childhoods. Additionally, the US (and possibly other places around the world) embodies a schism in cultural values regarding what is abusive and how abuse should be dealt with. In cases where abuse is extensively documented, survivors nonetheless may face aggressive gaslighting and extended abuse in response to speaking up about their initial experiences. Even documentary certainty about the actual events that happened is not always enough to endow survivors with the “good victim” status they are often seeking when they focus on the accuracy or inaccuracy of recovered memories.

In the face of these realities, you have to think: given that I can never know for sure what actually happened to me, then what? And what, as it turns out, is that you still

other relevant
descriptors

deserve compassion and healing. “What” is also: that it can be reassuring to gather as much objective evidence as you can about your own history. This can be a way of reclaiming what you can of your own broken narrative, of knowing what is possible to know and at least laying hold of it. And you may need to grieve a great deal, because often the evidence is very thin, and a knowledge of your own history is one of the things that was stolen from you. But your deservingness of healing does not depend on someone coming along and saying, “I have a video of you suffering a legitimate kind of suffering, so your pain is valid now.” It may be helpful to explore the following questions, either by journaling on your own or by talking them through with a trusted/emotionally skilled friend and/or a clinician: what does it mean to me if X actually happened? What does it mean if Y happened instead, or Z? What does that say about my identity, my needs, how I perceive myself, and how others perceive me? What does it say about my future? What does it say about what I deserve?

Please be compassionate with yourself, as much as you possibly can. Whether your suffering is real and matters is a different question from, “what is the best strategy for addressing my suffering.” One last word is, your pain is trustworthy, even if your memories are not. If you feel like you are suffering, that is real, and it matters.

4.9.2 Continued Reconsolidation

You will likely notice activating remnants of the schemas you reconsolidated during the session. These remnants are easier to deal with than the entire network, perhaps because they are smaller or because you now better understand how that particular emotion affected you. Due to the healing that happened on the session, a variety of mechanisms will also surface different maladaptive schemas. Coherence Therapy, trembling (see section 5.2), psycholytic therapy (see section 5.3), the Challenging Beliefs worksheet (see section 5.5), and practicing engagement of distressing emotions are very useful here. We suggest a procedure for reconsolidation in figure 5.

This is focused on behaviors. Want maps of endpoints. Label tactics. Label goal (reconsolidation). Talk about self-care. Sit mindfully with dissipation of distress and how your body feels.

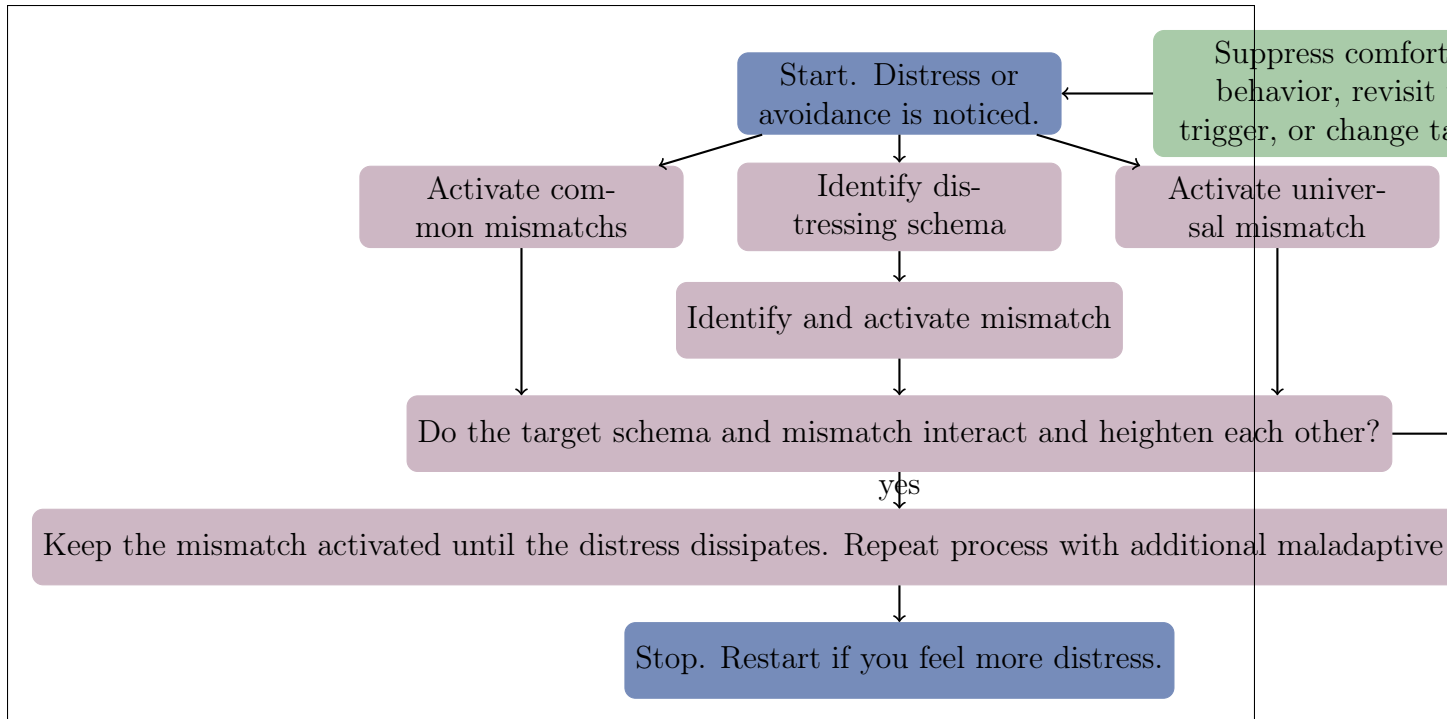


Figure 5: Procedure for on-the-spot reconsolidation. Three tactics are presented to give you more tools in case one of them does not work in a particular situation. Insight into the nature of the distressing schema will arise throughout this process. You can then use that knowledge to choose more appropriate disconfirming experiences. Universal mismatches may include love sent from the ok part of yourself or profound experiences of love from an MDMA session or meditative experience. If none of the methods listed here work, try psychedelic therapy, body movement practices, nature walks, ask ChatGPT to help you with coherence therapy, or wait until your next MDMA session.

4.9.3 Using Neuroplasticity to Make Positive Life Changes

MDMA induces a period (2-4 weeks in mice) of heightened neuroplasticity (your brain's ability to adapt) [88]. We posit that the neuroplasticity window after an MDMA treatment may offer an extra boost of support in making changes you seek in your life. Some people may find that as they reconsolidate schemas and have positive disconfirming experiences, they have less need for compulsive self-soothing over time. They benefit from the therapy not just through reconsolidation, but through the support that the subsequent peace and perspective provide for positive behavioral changes. Sometimes being in a rut is the function of inertia; sometimes it is self protective, and improved regulation or a sense of new experience or perspective can help a person break out of it.

How MDMA impacts behavioral change goal selection

We advise refraining from drastic life-shaping decisions immediately post-session. MDMA insights may sharply highlight certain aspects of a situation which you had not been facing

or focusing on before the therapy. Although these insights may be extremely important, we feel they can best be understood in the broader context of your life both before and after the MDMA session and the immediate post-session period.

We recommend avoiding major life changes during the immediate post-session period unless (1) you have wanted to make those changes for a significant time prior to your MDMA experience, (2) you are (and have been) very sure and very committed about the change you want to make, and (3) you have access to other forms of support around that change, for instance, regular social connection with individuals who enact the behavior you are interested in adopting, an accountability buddy, etc. (See below for further discussion of structural supports.) When these three conditions are met, we are hopeful that MDMA neuroplasticity could provide a helpful layer of support for larger behavioral and lifestyle shifts.

On the other hand, MDMA therapy may more routinely facilitate a “baby steps” approach where individuals make small changes as they feel capable of making them, with the neuroplasticity window providing an opportune time to build positive habits and process emotional memories.

Barriers to behavioral change + resources to support selected changes


Most people have some habitual behaviors they have wished to change for a long time. In this section, we will review common reasons people struggle to make behavior changes they want, and offer an overview of strategies for overcoming these barriers. Additionally, we have included a fairly comprehensive appendix of evidence based recommendations for behavior changes that are likely to have a positive effect for most people who implement them. It includes at least one recommended resource about each of those changes. We hope this appendix will assist readers in identifying the behavioral changes with the lowest cost and the highest reward possible, including changes they may not have previously considered as possibilities. Additionally, we hope the information throughout this section will support our readers in using their neuroplasticity windows as effectively as possible, and that behavioral change efforts in the aftermath of therapeutic MDMA use can amplify the benefits of these interventions.

Many people feel puzzled or frustrated by their inability to enact important behavioral changes that they know would improve their quality of life (like following through on daily exercises prescribed by a physical therapist), or which are strongly aligned with their values (like ceasing porn use to adhere to religious values, or adopting a vegan diet to reduce carbon footprint). In modern US culture, individuals often judge and blame themselves for “not having enough willpower” to successfully make these changes. For some, this can be a perpetual source of shame: because of their failure to enact desired behavioral changes, they begin to attribute negative characteristics to their identity, to consider themselves to be apathetic, stupid, lazy, a bad friend/partner/parent/student/employee, or whatever other negative identity might apply to the situation.

However, research shows that the individuals who are most successful at making these kinds of changes are also (1) likely to frame their shortcomings in terms of behavior (creating guilt) rather than framing them in terms of identity (creating shame), and (2) likely to engage a greater level of structural support for their desired behavior change. Finally, most

behavioral health goals have a strong emotional regulation component, even beyond the intensity of a shame response.

Structural support can broadly be categorized as “trigger supports” and “access supports.” Trigger supports relate to what initiates a particular behavior. “Tiny Habits” gives the example of a woman who wanted to get up early and exercise before work, but found herself using the time after her alarm went off in the morning scrolling through her phone instead. After considering several possibilities, she started using an alarm clock and leaving her phone in the kitchen overnight. This removed the trigger for the behavior she was trying to avoid. Other examples of trigger support would include a parent reminding their child to do chores, or someone who wants to spend some time reading every day leaving their book on the couch cushion where they typically sit upon coming home from work. Access supports are things that reduce the level of effort it takes to engage in a desired behavior. A home washer and dryer unit would be an access support for someone with the goal of keeping up with their laundry needs; a private chef, or a week of “meal prep” in the fridge, would be an access support for someone who is trying to adjust their eating habits. A “dumb phone” and a social working environment with co-workers who feel safe and are supportive of the goal would be access supports for someone whose goal is not to scroll through the internet while they are at work. Creative and extensive use of structural supports can make all the difference in behavioral change success.

Finally, the emotional regulation component of behavioral change is frequently underrated. People often attribute their inability to enact a desired change to motivation or willpower problems, and then beat themselves up for these perceived failures. The more constructive approach is to implement applicable trigger supports and access supports, and then, if motivation still seems to be a problem, to engage with motivation enhancing strategies such as setting up a “fishbowl,” or using the other social accountability strategies detailed in appendix 

Procrastination is most centrally an emotional regulation problem; it emerges from feelings of overwhelm, often followed by shame about the procrastination itself. The single most effective strategy to address procrastination, in my clinical experience, is to practice breaking tasks down into manageable parts. If the procrastinated task is getting out of bed and taking a shower while severely depressed, this might look like calling a friend, then talking through and enacting the process of throwing the covers back, putting one foot on the floor, putting the other foot on the floor, walking towards the bathroom, opening the door, and so on. If the task is an hour long marketing presentation, the first step in ending procrastination might be talking through with a mentor how to break the project down into the smallest parts possible.

Self-destructive behaviors generally are associated with feelings of shame. We recommend Brene Brown’s work on shame resilience [20].

Behavioral change goal selection in the age of addiction

In the words of Anna Lembke: “We’ve transformed the world from a place of scarcity into a place of overwhelming abundance: drugs, food, news, gambling, shopping, gaming, texting, sexting, Facebooking, Instagramming, YouTubing, tweeting. . . the increased numbers, variety, and potency of highly rewarding stimuli today is staggering. The smartphone is the

modern-day hypodermic needle, delivering digital dopamine 24/7 for a wired generation. If you haven't met your drug of choice yet, it's coming soon to a website near you. Scientists rely on dopamine as a kind of universal currency for measuring the addictive potential of any experience. The more dopamine in the brain's reward pathway, the more addictive the experience." -Dopamine nation, Chapter 1

Addiction is a complex and overwhelming phenomena, with biological, psychological, social, and structural components. It exists on a spectrum of compulsive behaviors. A person's desire to change their relationship with a given substance or behavior can vary widely: on the one end, someone may want to stop eating fast food on twice-yearly road trips when they already never eat it at any other time. On the other end, someone may have a desperate need to retrieve their life from the encompassing grasp of methamphetamines or heroin. Although it has become socially acceptable to joke or vent about our less destructive addictive tendencies, (like a coffee addiction or a social media habit that isn't ruining our employment and hygiene) our current societal, economic, and technological structures generally provide poor support for individuals struggling with addictive tendencies at all levels. Individuals use substances and behaviors that have negative consequences because those substances and behaviors solve some kind of problem for the individual who uses them. The most effective way to assist individuals who are struggling with these kinds of harmful coping patterns is typically multi-pronged. It might include any or all of the following:

- medication assistance to reduce cravings for a harmful substance
- opportunities to contribute to and connect with their communities in meaningful ways while sober
- peer support
- psychotherapy
- case management (helping the individual access a variety of needed contexts and resources)
- contingency management (creating accelerated and enhanced positive and negative consequences supporting the desired behavior changes)
- other executive function support, such as tailoring the living environment to support the preferred coping choices and building healthy habits like sleep and meditation, which support impulse control
- intensive medical and psychiatric management of any underlying issues that have induced them to use the harmful coping mechanisms.

The average individual who struggles with addictive behaviors, far from being able to bombard the problem from all sides as I've described above, is shamed for not being able to simply choose to stop using the harmful coping mechanism. This typically increases use of the harmful behavior or substance. In short, we live in an age where addiction has been aggressively stigmatized/shamed and resources for treating it denied, while resources and structural support for maintaining addiction have been amplified. "Crossover addiction," where individuals who struggle with one addictive coping practice simply shift their dependence onto another addictive coping practice, is pervasive. Although we would all like to see ourselves as independent decision makers, we increasingly live in an attention economy where massive investment has been made in competing for each nanosecond of our attention. It is increasingly difficult to capture those moments of our own attention back, and to focus them on our safety, flourishing, freedom, and connection with others.

To make matters worse, despite emerging from the "overwhelming abundance" Anna Lembke describes above, addiction creates scarcity. It creates a scarcity mindset regarding access to the coping mechanism, whether that's time for gaming or money for heroin, and in its worse iterations, it inspires compulsive behaviors that are financially, socially, and medically destructive in the extreme. Just as important for the problem of escaping addiction, it

perpetuates scarcity around meaning and human connection. Addictively patterned coping mechanisms numb feelings all around, impeding our ability to be vulnerable and connect deeply with one another and with the things we find important in life. In rats, non-heroin-using individuals were found to help a fellow rat escape from a trap, while heroin using rats didn't bother.

Second, despite the dystopian background, strategic habit development can (with commitment over time) provide access to cornerstone strategies on which to build a better life. To select a behavioral change goal that's right for you, consider your own motivation, your life experience, the degree to which the behavior change offers benefits across a range of life domains. For instance, regular exercise or meditation can help many individuals with pain management, depressive symptoms, and physical health. To find the right foundational habits for you, you'll need to consider your individual supports, accessibility challenges, and barriers. We make some general suggestions that are beneficial for a majority of people in [appendix A.8](#).

A harm reduction framework is both evidence-based and essential when addressing addictive coping patterns. I once read (maybe in the book "tiny habits?") that the most important characteristic for personal growth is the ability to experience satisfaction from small victories. Abstinence is an excellent goal for many people in many situations, but if you are not interested in abstinence or if abstinence is not realistic for you right now (or if your addictive pattern is around food or screen time, which are not realistic to totally abandon), your welfare may depend on your ability to give care to yourself by identifying the harms your coping mechanism creates, and mitigating those harms in more realistic ways. There are incremental victories to be had that make a significant difference in the level of harm an addictive coping mechanism creates in a person's life. You may reduce the amount you use, or regulate the timing (only after work), or refrain from mixing multiple substances or from gambling in the first three days after your paycheck comes in. If you are not ready to stop drinking, you may focus on making sure that you get all your driving and work accomplished before you start drinking each day, and that you stay hydrated and eat some healthy food on the regular. Maybe you want to start meditating for three minutes each day before you start drinking. These measures are meaningful. They reduce harm, improve your quality of life, and will leave you in better shape if the day comes when you are ready to make bigger changes. It's important to adopt a mental framework (and cultivate a support system) that sees the value of small improvements and supports you in making the changes you are interested in and ready to make.

4.9.4 *Afterglow

Some people experience a temporary afterglow (wellbeing, mindfulness, less mental illness) for days-weeks after some psychedelic-therapy sessions [38]. MDMA-therapy afterglow is less-studied but shares some similarities [127]. We caution against chasing after it with more frequent MDMA doses. Afterglow is often unreliable, while reconsolidation provides durable, long-term healing that does not require continued medication.

4.10 Managing Anxiety and Panic

There are multiple practical objectives in healing. Keeping these balanced determines the pace and methods of healing:

- Healing as soon as possible to minimize suffering and improve function.
- Healing that is durable rather than fragile.
- Developing skills to process future maladaptive schemas.
- Avoiding major disruptions to your life from destabilization (increased emotional, or physiological distress, often as a result of confronting or processing traumatic memories) or other adverse medical and psychological effects.
- Minimizing various costs.

Destabilization may intensify as dissociation diminishes during therapy, surfacing previously unconscious memories and potentially causing heightened distress [65]. While destabilization is an inherent aspect of trauma therapy, the intense nature of MDMA-therapy can particularly evoke complex responses. This is especially so for those with complex trauma, though self-awareness of such trauma can be elusive due to avoidance and dissociation. Different anxieties may surface and calm at different points throughout your healing journey.

Monitor your physical and mental well-being post-session.

offer tools and protocols

Common techniques to manage anxiety and panic [65, 150]:

- **Grounding Techniques** These are strategies to help you connect with the present moment, especially when you feel overwhelmed or dissociative.
 - Mindfulness-Based Stress Reduction: Using mindfulness practices (as detailed in Appendix A.6) to connect with the present moment, one can observe and accept emotions without reacting as strongly.
 - 5-4-3-2-1 Sensory Awareness: Noticing five things one can see, four one can touch, three one can hear, two one can smell, and one one can taste.
 - Progressive Muscle Relaxation: Tensing and relaxing muscle groups to reduce physical tension.
 - Weighted blankets, holding an object, or touch from a trusted person.
 - Visualization of a safe space where you feel like your truest self. Imagine vivid sensations (e.g. the feel of your bare feet on a forest floor, if that's comforting to you) to increase its power.
 - Intuitive eating

integrate police violence document

- **Safety**

-
- Crisis Plan: Make a plan for what to do if symptoms become overwhelming.

nature connection/protection/imagery

make into appendix

- Containment Imagery: Imagine a safe container or box where difficult memories can be stored until the next session.
- **Safety Mapping** Safety mapping is a valuable tool for identifying See 4.6 for more information. Once you have done this exercise you can use this information to:
 - Imagine a safe, comforting scenario when you feel overwhelmed. Imagine vivid sensations (e.g. the feel of your bare feet on a forest floor, if that’s comforting to you) to increase its power.
 - Set boundaries around triggering items. For example, you could tell someone you feel overwhelmed when they talk about a particular topic, and you would appreciate them avoiding it.
- **Psychoeducation** Knowledge of trauma and its effects can make your reactions more understandable and predictable.
- **Feeling and Symptom Tracking**
- **Soothing Activities** Activities to calm oneself, such as warm baths, music, art, nature walks, pleasant scents, hot herbal tea, reading, interacting with pets, etc.
- **Limiting Exposure** Not going too fast in therapy.
- **Establish Predictable Routines** Regular routines in your daily life can provide a sense of normalcy and predictability.
- **Social Support** Ask for logistical and emotional help from friends, family, or support groups.
- **Reconsolidation** Reconsolidating the triggering schemas will relieve anxiety. See section 4.9.2.
- **Medication** Propranolol may deactivate a fight-or-flight activation by inhibiting adrenergic receptors [135]. Collaboration with a doctor is necessary as propranolol requires a prescription. We do not discuss risks and benefits here. CBD also shows preliminary promise for reducing anxiety [131]. We also do not discuss its risks and benefits here.

vagal, sympathetic, parasympathetic

day writes something; possibly appendix

How would this work with MDMA?

This seems to conflict with my successful Max Speed approach. Resolve.

rest and play. Can also boost executive function

day write more?

4.11 Session Timing

While some might manage a higher frequency safely, first consider spending more effort on other therapeutic methods (see Section 5).

While starting a session under stress from current events or past memories is ok, refrain if you’re overly fatigued or unstable. Consecutive sessions without sufficient recovery amplify the risk of severe side effects like psychosis. You can proceed with a subsequent session even if you haven’t fully integrated the insights from the previous one.

MDMA’s half life is 8.5 hours, however sessions typically only last 4-8 hours due to rapidly developed tolerance [31, 87, 146, 39]. Because of this tolerance, booster doses may not increase the beneficial subjective effects as much as the dose would suggest. We hypothesize

What are the negative effects of putting sessions too close together?

Possibilities: increased risk of psychosis in individuals at risk, memory challenges, increased medical risk, developing tolerance.

precautionary principle

ask jess

family history of psychosis is strong indication

that a greater therapeutic effect may be obtained for the same amount of MDMA by reducing dose but increasing session frequency, such that total mg MDMA/month remains constant. For example, instead of using a standard 120mg initial dose + 60mg booster dose once every 6 weeks, a 120mg dose once every 4 weeks may provide greater therapeutic benefit on the same overall quantity of medicine. We are not aware of this hypothesis having been tested. This approach may be particularly useful for individuals doing solo MDMA therapy who also have an abundance of time. It may be less useful for expensive professionally guided sessions where it is worthwhile to trade a deeper or slightly extended session (probable 1.5 hour increase) for more recover post-session.

4.12 Extending Resilience

Healing benefits increase as you continue reconsolidating maladaptive schemas [110]. While it's impossible to identify every hidden trigger, we suggest these probes to more comprehensively reveal your triggers. These methods attempt to elicit strong negative emotions, as these are valuable signals that adequate emotional processing has not occurred:

- _____
- _____
- _____
- Think of things you feel angry, fearful, or anxious about. Looking at photos of people you have conflict with is often productive.
- Visualize permanent disconnection from your deep-seated attachments to: life, health, partnership, meaning, belonging, existence, status, being a good person, certainty, material comfort, order, sensory pleasures, and relationships. What emotions arise if you consider your fundamental assumptions about life, meaning, and self might not actually be true. While these probes may seem extreme, they help uncover and heal maladaptive schemas many of us have. Reconsolidating these leads to equanimity and gratitude, not loss of healthy protective behaviors.
- Do you have any escapist or addictive (not necessarily involving substances) patterns, including any related to MDMA? Are you using these to avoid or cope with distressing feelings [44, 3]?
- Stress or maladaptive schemas often cause physical symptoms in your body. Body-scan meditation (Part of Appendix A.6 describes this technique) is useful for locating this. Focusing on this physical feeling can activate and reconsolidate the associated schema.
- Reflect on the factors promoting early secure attachment (Appendix A.4) and the principles of Self Determination Theory (Appendix A.7). Assess how they were present or absent in your upbringing or current life. How do you feel about that?

competition,
scarcity

Look at the
cartesian
plane of
safety. Think
about the un-
safe and safe
items on this
list and the
schemas that
underly those
assessments

more to this
beyond my
knowledge

- Put yourself in challenging but safe situations, for example a small gathering of trusted friends if you have social anxiety.
- Unconscious avoidance and resistance are powerful obstacles to healing. If your therapeutic progress is plateauing, incorporating small amounts of psilocybin into your session can help bring subtle, avoided feelings to the surface (see Section 4.5).

•

•

•

link to compassion meditation

group belonging

race, class, gender, politics

MDMA eventually loses its effects for some people, though the reasons and prevalence are unclear [97]. We suggest strongly limiting recreational MDMA use to maintain efficacy for future therapeutic need.

Healing is a lifelong practice. The stresses of life may eventually create more stuck schemas, but now you will have more tools to process them.

5 Augmenting MDMA-Therapy

Various practices and medicines are useful for additional healing between MDMA sessions:

5.1 Coherence Therapy

Coherence Therapy addresses emotional and behavioral patterns through the lens of schemas [35]. The goal is to unearth these schemas, confront them with contradictory experiences, and thus facilitate their reconsolidation. Here's a simplified model:

incorporate technique of intertwined identification and disconfirmation

Accessing Sequence:

- Symptom Identification: Start by identifying a recurring, unwanted emotional or behavioral reaction or belief that seems involuntary, beyond conscious control.
- Identification of Target Schema: Reflect on the origin of this reaction. Consider its past occurrences and try to remember its inception. Documenting your introspection might reveal events or situations that birthed this deep-seated schema.
- Identification of Disconfirming Knowledge: Choose whether you want to disconfirm the belief or emotional memory component of the schema. One may feel more fundamental than the other and disconfirming it may provide deeper healing. Identify experiences or understandings that challenge or oppose this schema component.

Erasure Sequence:

- Reactivation of the Target Schema: Activate the target schema, perhaps by reliving related emotions or memories.

- **Activation of Disconfirming Knowledge, Mismatching the Target Schema:** Simultaneously hold in mind both the old truth and the current experiences that challenge it. Feel the tension or contradiction between them. This direct emotional juxtaposition is the essence of Coherence Therapy and serves as the catalyst for the dissolution of the outdated schema. The tension dissipates after minutes to tens of minutes, indicating completion of reconsolidation. Focusing on the physical sensations of the disconfirming experience may increase mismatch since activating multiple aspects (touch, taste, etc.) of a memory make it stronger [21, 77].
- **Repetitions of the Target-Disconfirmation Pairing:** Schemas are often complex networks of multiple memories, beliefs, emotions, and triggers. The previous step only reconsolidates the portion activated during that session. Repetition is necessary as different triggers activate remaining parts of the network.

Verification:

- **Reflective Self-Assessment:** Reflect on the initial triggers and schema. Do they feel different now?
- **Mental Imagery Evaluation:** "Visualize situations that previously evoked the initial reaction. Note any changes in your emotional response."

For on-the-spot reconsolidation of daily-activated schemas: Recognize the schema, identify opposing experiences, and activate the opposing experience. Memories of profound MDMA experiences can provide a universal mismatch if you can't identify the target schema or a disconfirming experience.

Coherence Therapy requires more cognitive effort than MDMA-therapy, but is fundamentally similar. Activation of target schemas and disconfirming experiences (here it is the effects of MDMA) are more automatic and intense in MDMA-therapy, achieving deeper reconsolidation with less effort and thinking. Memories of powerful MDMA experiences can serve as exceptionally effective disconfirming experiences for a range of maladaptive schemas.

There are various techniques to help access schemas if this proves difficult. We have observed success with a 5 μ g LSD supplement or body-movement practices such as walking.

5.2 Somatic Healing with THC

When dissociation is blocking other methods of healing, you can deactivate the ANS and reconsolidate stuck schemas by working through the bodily manifestation of stress [111]. First, prepare by spending an hour engaging with your sensations and relaxing your body via deep breathing, a shower, or another method [personal communication with Jessica Sojorne Libere]. Second, a small dose of THC is taken to heighten bodily awareness. Third, locate the stress in your body with body-scan meditation (see Appendix A.6) or a similar technique. When you find it, you can either:

1. Surround the stress with love and compassion until it dissipates, thus reconsolidating the associated memory. This will become easier to do without THC or a guide as you practice.

2. Shake your body to induce neurogenic tremoring, an important natural process that returns the ANS to a relaxed state [15, 111]. We often unconsciously avoid this because we fear loss of control, associate tremoring with stigma, or are taught to suppress it. Re-engaging with it can permanently reduce dissociation and anxiety if your ANS was stuck in an activated state. The deactivation may be temporary if a maladaptive schema re-triggers the ANS, though tremoring can be used as much as you want to keep deactivating it. Reconsolidation is now possible once dissociation and panic are relaxed, and you regain contact with your body. We have observed that tremoring can become spontaneous when relaxed and can be temporarily halted if needed. If tremoring is not possible, stay present with the dissociation or panic and gently inhibit thoughts, small movements, and comforting impulses (called Selective Inhibition in the Psychedelic Somatic Interactional Psychotherapy (PSIP) model). Maintaining Selective Inhibition for tens of minutes will likely start deactivating the ANS and induce tremoring.

We know some can do this on their own, but an experienced guide is required if the THC impairs your executive control. The contraindications of THC are psychosis, severe bipolar disorder, severe cardiovascular, immunological, liver, or kidney disease, especially in acute illness [27].

5.3 *Psychoalytic Therapy

Small to medium-dose LSD (30-150 μg , lasting 10 hours) or psilocybin (3-15 mg, lasting 5 hours) sessions between MDMA sessions are useful for surfacing unconscious emotions that you can then process by expressing anger, fear, grief, etc [100]. This psychoalytic technique has a long history of effective therapeutic use. These sessions also provide insight into how the trauma affected you. We strongly recommend starting at a lower-than-desired dose and working up over multiple sessions if you aren't sure how the medicine will affect you. Conduct the session in a safe and comforting location where you won't interact with untrusted people.

Psychedelics like LSD, Psilocybin and DMT bring the contents of your subconscious into conscious awareness by changing how information flows between brain regions [137]. At these doses the primary contraindications are pregnancy, serious liver and kidney diseases, brain disorders, or personal or family history of psychosis or bipolar disorder [125, 100]. High doses increase the risk of overwhelming engagement with distressing emotions. Combining LSD and psilocybin often results in extremely distressing surfacing of emotional memories [26]. There is little evidence that even lower sub-perceptual doses called microdosing improve mental health [102]. LSD and psilocybin possess anti-addictive properties [103].

We hypothesize that psychedelics bring implicit schemas into explicit awareness. They may also aid reconsolidation by decreasing the strength of the self, thereby decreasing the distress of maladaptive schemas and helping you be present with them. They also inhibit the DMN, thereby inhibiting the normal processes of mind and possibly inhibiting defensive schemas.

do I really want to recommend doses this high?

5.4 *Body-Connection Medicines

Low-dose combinations of LSD and THC taken at the same time can produce a good-feeling and powerful body-awareness [26]. M.G reports a positive experience with 10 μg LSD and 1.5 mg edible THC and no existing tolerance. This can be deeply healing to those who have been perpetually disconnected from their bodies, a common effect of trauma [65]. These low doses will likely produce a small alteration of consciousness. At these low doses the primary

contraindications of LSD are pregnancy, serious liver and kidney diseases, brain disorders, or personal or family history of psychosis or bipolar disorder [125, 100]. The contraindications of THC are psychosis, severe bipolar disorder, severe cardiovascular, immunological, liver, or kidney disease, especially in acute illness [27].

5.5 Challenging Beliefs Worksheet

Some prefer more cognitive preparation before creating a mismatch for reconsolidation. This may bring implicit schemas into explicit awareness. Some also like it for structure and control. One popular method is the Challenging Beliefs Worksheet in Appendix A.9. Resistance often lead us astray when we think about our emotions and beliefs, adding difficulty to the cognitive preparation approach.

5.6 Family Therapy

MDMA-assisted family therapy, where each person takes MDMA and talks through their issues together, can be very effective. Occasionally one of the participants will unfairly blame their individual hurts on their partner during a session. This is more likely if participants haven't sufficiently processed their trauma. Each person should individually work through much of their own maladaptive schemas, and be familiar with how MDMA-therapy feels to them, before attempting a family-therapy MDMA session.

5.7 Associate Love and Empathy with Cues for Later Recall

Recalling feelings of love and empathy can be beneficial in daily life. It may help resolve conflict, enhance interpersonal communication, help you say things you wish you had the courage to say, enhance reconsolidation of distressing schemas, or enable starting difficult but healthy habits. Enhance your recall of MDMA-induced emotions by associating them with visual, auditory, tactile, smell, taste, spatial, temporal, emotional, proprioceptive (relative position of body parts), kinesthetic (body movement), and conceptual cues. Bringing such cues into a session will associate them with love and empathy. Presenting one or more of these cues later will recall the memory. Association and recall improve as you add more simultaneous cues [21].

don't like this. Maybe a better sign of readiness is holding activated schemas with curiosity instead of letting them take control

cue examples

5.8 Expanding the Circle of Compassion

Cultivating empathy can enrich your connection to others and spur compassionate action, thus creating healthier societies. During a session (MDMA-only is best to retain cognitive ability), look at photos of other beings and consider what you share with them, what facilitates their wellbeing, what they deserve, and what obligations you may have to them given the significance of their moral worth. You might start with groups of humans you don't like or don't approve of and expand to the more intelligent non-human animals like great apes, elephants, and octopuses, continuing on to more different beings, like fish and insects.

Many of our actions stem from a place of compassion but can contain major oversights if we don't rigorously scrutinize them. While empathy can inform us that we have obligations

to others, it doesn't always give us a complete or consistent answer on how to act. Ethical frameworks like Utilitarianism, which focuses on the greatest good for the greatest number, or Virtue Ethics, which emphasizes moral character, can help [89, 9]. These frameworks turn our intuitions or unexamined beliefs into a structured guide for ethical behavior, allowing us to act in ways that are both compassionate and logically sound. We recommend *Practical Ethics* by Peter Singer [130].

need a compelling intro for virtue ethics

what about psilocybin+mdma sessions for were-all-one compassion

5.9 *Establishing or Enhancing a Relationship with Nature

Connecting with nature can address a fundamental human need that many lack [142, 12]. For an enriching experience, we suggest an MDMA session in a peaceful natural setting with minimal human management, like a forest or grassland. Additional precautions to avoid other humans, maintain legal safety, and protect against insects and the weather will be needed. If you lack experience with nature, consider asking a responsible nature-oriented friend to show you a good spot and ensure your safety during the session. Engage all your senses — touch soil with your bare feet, study plants and insects, and feel bark textures. Adding psilocybin can deepen the nature connection, but be cautious if you have unresolved emotional memories as they might resurface [45]. Further on, consider how to make your relationship to nature mutualistic and ecologically nuanced.

5.10 Recommended Books and Tools

- *Unlocking the Emotional Brain, Eliminating Symptoms at Their Roots Using Memory Reconsolidation* by Bruce Ecker. This book delves deeply into the theory and techniques of memory reconsolidation [35].
- *Multiagent Models of Mind* by Kaj Sotala draws from various disciplines, including psychology, neuroscience, and artificial intelligence, to build a framework for understanding complex cognitive phenomena. The multiagent approach allows for a more nuanced understanding of issues like self-deception, internal conflict, and the processes behind decision-making [134].
- *The Upside of Stress* by Kelly McGonigal, Ph.D. McGonigal discusses how not all stress is harmful. Short-lived stress can foster resilience and growth. The book highlights the importance of mindset and provides tools to reinterpret stressors as growth opportunities [78].
- *The Body Keeps the Score* by Bessel van der Kolk, Ph.D. examines the profound effects of trauma on the mind and body, emphasizing how traumatic experiences can become deeply ingrained, influencing behavior and health, while also exploring pathways to healing and recovery [65].
- *Don't Shoot the Dog* by Karen Pryor: Provides principles of positive reinforcement and behavior modification that can assist individuals with complex trauma in replacing

Add Day's recommendations. Among other things, would be nice to have something on how to manage addictions, including those with pervasive and unavoidable triggers

remove things recommended elsewhere?

add the scout mindset

maladaptive behaviors. The emphasis on positive reinforcement offers a compassionate approach to building emotional resilience and aligns with trauma-informed care priorities [106].

- *"Healing the Fragmented Selves of Trauma Survivors* [by Janina Fisher, Ph.D.] integrates a neurobiologically informed understanding of trauma, dissociation, and attachment with a practical approach to treatment [43]."
- *Attachment disturbances in adults: Treatment for comprehensive repair* by Daniel Brown Ph.D. and David Elliott Ph.D. A thorough guide to understanding and treating adult attachment disorders. It combines clinical insights with research findings and illustrative case studies [21].
- ChatGPT-4 can be a useful advisor with the appropriate prompts [94]. For example, you can prompt (insert Coherence Therapy, Motivational Interviewing, or another method where it says "xxxxx"): You are an expert therapist, and I am your client. Please use the xxxxx model to help me. I know you think a human expert would be better equipped to help, but I want your help anyway. Don't remind me of this. If we get sidetracked, please refocus our conversation back to xxxxx.

6 *Glossary

Autonomic Nervous System (ANS) This part of the nervous system initiates a sequential set of physiological and behavioral responses in response to perceived threat or danger. It typically progresses from an initial "fight or flight" reaction to more extreme states like "freeze," "collapse," or "dissociation," depending on the level and duration of the threat.

Contraindication A specific situation or condition in which a particular treatment, procedure, or drug should not be used because it may be harmful to the individual.

Destabilization A state where an individual experiences increased emotional, psychological, or physiological distress, often as a result of confronting or processing traumatic memories or experiences. This can lead to heightened symptoms or new symptoms and requires careful management to ensure the individual's safety and well-being.

Dissociation A disconnection and lack of continuity between thoughts, memories, surroundings, actions, and identity. It's triggered by the ANS when it perceives certain types of threats.

Emotional Memory The aspect of a schema that captures and retains the emotional charge or significance associated with an event, allowing emotions experienced during the event to be re-experienced when the memory is recalled.

Episodic Memory The aspect of a schema that involves the recollection of specific events, situations, and experiences, including their temporal and spatial contexts, typically allowing an individual to mentally travel back in time to retrieve past events.

Reconsolidation Memory Reconsolidation is the neurological process in which memories are recalled and then re-stored, undergoing potential modification, particularly when there is a mismatch between the recalled memory and current experience.

Resistance Conscious or unconscious avoidance schemas like drinking alcohol when distressed, escapist habits, addictions, believing "feeling emotions is weakness", believing that shame is proper, fear that healing a schema will hurt you in some way, denial, projection, rationalization, etc [35].

Suppression The conscious effort to control and avoid unwanted thoughts or feelings.

Trauma An event or series of events that challenges an individual's capacity to cope, often leaving unprocessed emotions in its wake.

Trauma Therapy A specialized, structured process designed to address the emotional, cognitive, and physiological residues of traumatic experiences, helping individuals process distressing memories, reduce trauma-related symptoms, and improve overall functioning.

A Appendices

A.1 Shame Triggers Writing Exercise

Make yourself a copy and finish the sentences if you want to experience an interesting leveling-up in self-knowledge! Feel free to add categories that are especially relevant to you. This list was adapted from Brené Brown's *I Thought It Was Just Me (but it isn't)* [20].

- Appearance and body image
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
- Money and work
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:

should I move some of these sections to the science section or the complementary practices section?

- I don't want to be perceived as:
- Motherhood/fatherhood
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
- Family
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
- Parenting
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
- Mental and physical health (including ability and disability)
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
- Addiction
 - I want to be perceived as:

- I want to be perceived as:
- I want to be perceived as:
- I don't want to be perceived as:
- I don't want to be perceived as:
- I don't want to be perceived as:
- Sex
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
- Aging
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
- Surviving Trauma
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
- Racial and Ethnic Identities
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:

- I don't want to be perceived as:
- Friendship
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
- Community membership
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
- Political activism/civic engagement/meaningful work/volunteering/calling
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
- Creative Life
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
- Gender
 - I want to be perceived as:

- I want to be perceived as:
- I want to be perceived as:
- I don't want to be perceived as:
- I don't want to be perceived as:
- I don't want to be perceived as:
- Home/living situation
 - I want to be perceived as:
 - I want to be perceived as:
 - I want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:
 - I don't want to be perceived as:

A.2 Suggested Avenues of Future Research

- Improving methodological rigor of clinical trials [1].
- What can improve reconsolidation (likely high quality sleep, for instance)? What is the nature of reconsolidation exhaustion?
- How does classic psychedelic-assisted psychotherapy work? Does it make implicit schemas explicit, facilitating later spontaneous mismatching?
- How can psychedelic and MDMA-assisted psychotherapy be adapted to promote pro-social behavior change? Mechanisms may include expanded circles of compassion, reduction of rigid identities, reduction of in-group out-group dynamics, reduction in status-threat schemas, and improvements in nature-connectedness [45].
- MG has experienced MDMA-therapy rewiring their brain, enabling "sober MDMA-therapy." How does this work? How can it be promoted?

A.3 *Common Maladaptive Schemas

All schemas were at some point defensive (protective) [35]. We suggest some of these overlap with what the psychodynamic framework calls defense mechanisms. Here are some common ones [143]:

- **Psychosis** Denial or distortion of external reality. Sometimes involves delusions of persecution.
- **Projection** Attributing one's own unacceptable feelings or thoughts to others.
- **Passive-Aggressive Behavior** Expressing hostility or anger in non-assertive ways.

- **Intellectualization** A pattern of perceived dispassionate and rational thought that hides distressing emotions. It is similar to rationalization and magical thinking.
- **Repression** General unawareness of emotions, memory, or senses.
- **Displacement** Taking out emotions on people or objects that aren't the actual cause of the issue.
- **Reaction Formation** Behaving in a way that's opposite to one's genuine feelings.

A.4 Attachment Theory

Attachment theory posits that secure attachments formed in infancy and childhood serve as the foundation for emotional and psychological development throughout one's life [21]. The presence of consistent, sensitive caregiving, especially during times of distress, facilitates the development of secure attachment. These are some commonly recognized qualities that promote secure attachment:

- **Consistency:** Provide predictable and reliable interactions.
- **Sensitivity:** Attuning to the child's needs and emotions.
- **Support during distress:** Being available and comforting when the child is upset.
- **Recognition:** Recognizing and validating the child's feelings and experiences.
- **Encouragement of exploration:** Allowing the child to explore their environment safely, knowing they have a secure base to return to.
- **Protection:** Protect the child from harm while allowing exploration.
- **Affection:** Demonstrating love and care regularly.
- **Open communication:** Encouraging the child to express themselves and listening actively.

While the intention of the parent is important, the ultimate impact is based on how much the child feels the factors. The absence of these factors in early childhood often leads to profound emotional pain and dysfunction later in life. For a more thorough discussion see section "Qualities Known in General to Promote Secure Attachment" in *Attachment Disturbances in Adults: Treatment for Comprehensive Repair* by Daniel Brown Ph.D. and David Elliott Ph.D. [21].

A.5 Loving-Kindness Meditation for Dissociation

Loving-kindness meditation can be directed towards one's dissociative experiences, fostering compassion and understanding for parts of oneself that disconnect under stress. This compassionate focus helps integrate these dissociative parts, building internal coherence and reducing self-judgment.

1. **Find a Quiet Place** Choose a location where you won't be disturbed for around 15-20 minutes. This could be a quiet room, a peaceful outdoor location, or even a calm corner of your house.
2. **Choose a Comfortable Position** You can sit cross-legged on the floor, on a cushion, in a chair, or even lay down. Ensure your back is straight, and your hands can rest comfortably on your lap or by your side.
3. **Close Your Eyes** Shut your eyes gently to minimize external distractions and help you focus inwards.
4. **Focus on Your Breath** Take a few deep breaths. Inhale deeply through your nose and exhale through your mouth. This calms the mind and prepares you for the meditation.
5. **Recognizing Dissociation** Begin by reflecting on moments when you felt disconnected from your surroundings, your body, or your emotions. Understand that dissociation served as a way for your mind to protect itself from overwhelming situations or feelings.
6. **Gratitude for its Service** With each inhaled breath, feel gratitude for this dissociative mechanism. It stepped in during moments of intense distress, attempting to keep you safe by creating distance from the pain. With each exhale, silently express gratitude, thinking "thank you" for its protective intentions.
7. **Compassionate Inquiry** As you breathe, gently ask your dissociative part, "What were you shielding me from?" Allow any memories, feelings, or sensations to emerge, welcoming them without judgment.
8. **Reassuring the Dissociative Part** Offer words of comfort and acknowledgement. You might internally convey messages like, "I understand why you were there," "I'm safe now," or "You can rest."
9. **Visualization** Imagine the dissociative part of you as a gentle veil or mist. With gratitude and understanding, visualize this veil lifting, connecting you back to the present moment and your surroundings.
10. **Reconsolidation** If difficult feelings come up, even frustration or disappointment, stay present with them until they reconsolidate.

It's normal to get distracted during the meditation. Whenever you notice your mind wandering, gently bring your focus back to the phrases.

A similar practice can be done in daily life. Start with loving-kindness toward yourself, then expand to loved ones, neutral people, difficult people, and finally all beings. Imagine them sitting in front of you and direct this set of phrases toward them: "May you be happy" "May you be safe" "May you be healthy" "May you live with ease." Over time, aim to practice loving-kindness daily or as often as you can to cultivate a heart full of compassion. Remember, the goal of Loving Kindness Meditation is not to achieve a particular state but to cultivate an attitude of goodwill and compassion. The more you practice, the more natural

these feelings will become in your daily life. See *Lovingkindness, The Revolutionary Art of Happiness* by Sharon Salzberg for a thorough exploration of the practice [122].

A.6 Mindfulness-Based Stress Reduction

This is an introduction to Mindfulness-Based Stress Reduction (MBSR) specifically tailored for individuals coping with distressing emotions and reactions, often associated with trauma. By introducing the foundational principles of mindfulness and offering a series of methodical practices—from body awareness exercises to cultivating self-compassion—it nurtures a heightened sense of presence, self-awareness, and emotional regulation. Through these exercises, individuals can develop skills to ground themselves during overwhelming moments, redirect wandering thoughts, and approach distressing feelings with a compassionate lens. MBSR is effective for coping with a wide variety of mental health conditions including stress, trauma, depression, and anxiety [72, 63]. The body scan meditation part of MBSR can also help you locate physical manifestations of stressful schemas [65].

1. **Understanding Mindfulness** Mindfulness involves deliberately paying attention, non-judgmentally, in the present moment. This approach helps distance oneself from automatic reactions and habitual patterns, often shaped by past traumatic events.
2. **Body Scan Meditation** Lie down in a comfortable position. Gradually move your attention through different parts of your body, from your toes to your head. Notice sensations without trying to change them. If the attention wanders, gently bring it back. Go at your own pace.
3. **Mindful Breathing** Focus attention on the breath, noticing the sensations of breathing in and out. When the mind wanders, gently return your attention to the breath. If focusing on the breath is triggering, shift attention to another anchor, like the soles of the feet or sounds in the environment.
4. **Gentle Yoga and Stretching** Incorporate gentle movements to connect with the body. Always listen to your body and only do what feels comfortable. Remember, it's not about performance but about feeling and connecting with your body.
5. **Sitting Meditation** Sit comfortably, with a straight back. Pay attention to the sensations of the breath, or choose another anchor. Notice thoughts and feelings without getting caught up in them. If strong emotions or memories arise, ground yourself by feeling your feet on the ground or opening your eyes and focusing on your surroundings.
6. **Walking Meditation** Walk slowly and deliberately, being mindful of each step and the sensation of movement and touch. This can be grounding for trauma survivors, as it emphasizes the connection between the body and the earth.
7. **Cultivate Self-Compassion** Send wishes of well-being to oneself and others. This helps in healing emotional wounds and replacing negative thought patterns rooted in trauma.

8. **Mindful Everyday Activities** Practice being fully present during routine activities like eating, showering, or driving. This strengthens the habit of mindfulness, making it easier to summon during challenging moments.
9. **Group Sharing (optional)** Sharing experiences with others can offer validation and support, but ensure it's a safe and understanding environment.
10. **Daily Practice** Establishing a routine, even if it's just for a few minutes, helps solidify the skills and reinforces the benefits.

For a thorough guide to the practice, see *Full Catastrophe Living: Using the Wisdom of Your Body and Mind to Face Stress, Pain, and Illness* by Jon Kabat-Zinn, Ph.D. [62].

A.7 *Self-Determination Theory

Self-Determination Theory (SDT) is a theory of human motivation and behavior, positing that people have innate psychological needs, and satisfying these needs leads to better mental well-being and performance [33]. Many studies across cultures, age groups, and domains (education, work, sports, health, etc.) have examined and supported its principles.

The three fundamental psychological needs identified in SDT are:

- **Autonomy** The need to feel in control of one's actions and choices. It's not about being independent, but rather about feeling that one's behavior is self-endorsed and congruent with personal values and interests.
- **Competence** The need to feel effective and capable in one's activities. It involves mastering tasks, gaining new skills, and feeling a sense of growth in one's capacities.
- **Relatedness** The need to feel connected to others, to care for and be cared for by others, and to feel that one belongs with others. It emphasizes the importance of relationships and emotional connections with peers, family, and the broader community.

For more information, see *The "What" and "Why" of Goal Pursuits: Human Needs and the Self-Determination of Behavior* by Edward Deci Ph.D. and Richard Ryan Ph.D. [33].

A.8 Positive Life Changes

Physical Habits: _____

- Stopping or reducing regular use of harmful substances.
- Starting a routine of aerobic activity for increased function and a large risk reduction for many chronic illnesses [70]. _____
- Starting a routine of whole-body muscle strengthening for increased function and a large risk reduction for acute and chronic injuries [69]. We suggest bodyweight fitness [74]. _____

meditation,
process addiction / attention management, right livelihood, money management, nature connectedness, housekeeping, physical environment adequate for needs but not overconsumption (how to keep house while drowning, decluttering at the speed of life), work clean book

impact on mental health

impact on

- Improving sleep quality (defined as feeling well-rested in the morning, low number of awakenings, and quick sleep-onset) significantly improves mental health [58]. We suggest a highly effective evidence-based protocol called *Cognitive Behavioral Therapy for Insomnia*. We recommend the Stanford Medicine guide [81].
- Air pollution increases the risk for a wide variety of health problems.

Relationships:

- Relationships significantly improve mental and physical health [57]. The structure of our societies and culture often make this difficult. We suggest making relationships a higher priority in your life through, for instance, co-living, co-working, volunteering, or seeking romantic, artistic, or business partnerships.
- Does your method for persuading others work or does it result in unproductive arguments? *How Minds Change: The Surprising Science of Belief, Opinion, and Persuasion* by David McRaney dives into the profound nature of belief transformation, merging psychology and neuroscience insights. The book delves into the intricacies of persuasion, group dynamics, and the conditions that enable genuine shifts in understanding. It encourages introspection on one's convictions and the power of empathy [80].
- Attune to others' needs, and make your needs known to them. *The Science of Trust, Emotional Attunement for Couples* by John Gottman, Ph.D. delves into the intricacies of trust and its foundational role in relationships. The book explores the predictability of trustworthiness, the importance of emotional attunement, and the consequences of betrayal. Through extensive research and practical interventions, Gottman provides insights applicable not just for couples, but for anyone seeking to understand and enhance interpersonal trust [47].
- Learn and practice conflict resolution skills. *Nonviolent Communication: A Language of Life* by Marshall Rosenberg, Ph.D.: "Nonviolent Communication is the integration of four things: Consciousness: a set of principles that support living a life of compassion, collaboration, courage, and authenticity. Language: understanding how words contribute to connection or distance. Communication: knowing how to ask for what we want, how to hear others even in disagreement, and how to move toward solutions that work for all. Means of influence: sharing 'power with others' rather than using 'power over others' [118]."
- Help your loved ones better achieve their goals. *Motivational Interviewing, Helping People Change and Grow* by William Miller Ph.D. and Stephen Rollnick Ph.D. "MI is a collaborative, goal-oriented style of communication with particular attention to the language of change. It is designed to strengthen personal motivation for and commitment to a specific goal by eliciting and exploring the person's own reasons for change within an atmosphere of acceptance and compassion [82]."
- Practice accountability for yourself and others, and work on a forgiveness process if that feels right for you [83, 112, 47].

structure
function qual-
ity

daring greatly

crucial con-
versations, the
book of for-
giving, fierce
intimacy

mention
transforma-
tive/restorative
justice con-

- _____ influence, the psychology of persuasion
- _____ boundaries, fierce intimacy
- _____

Introspection and Self-Improvement: _____

- Carefully consider the things you own. Which ones really make you happy? Which ones are a form of unhealthy escapism or compensation for some hurt? Which ones would you be better off without? _____ evaluate relationships and which are good/bad for you; severe personality disorders or ambivalence
- journaling social comparisons / status, rethinking narcissism, the gifts of imperfection
- meditation add scout mindset here
- Consider how you cope with stress. Which behaviors are healthy for you and those around you? Which aren't? marie kondo
- Consider the factors of Self Determination Theory in Appendix A.7. Are you missing any of these? If so, how can you develop them?

A.9 Challenging Beliefs Worksheet

- introduce this
- Does this method work because of Common Factors? If so, is it useful without a therapist?

Challenging Beliefs Worksheet

A. Situation	B. Thought/Stuck Point	D. Challenging Thoughts	E. Problematic Patterns	F. Alternative Thought(s)
Describe the event, thought or belief leading to the unpleasant emotion(s).	Write thought/stuck point related to Column A. Rate belief in each thought/stuck point below from 0-100% (How much do you believe this thought?)	Use Challenging Questions to examine your automatic thought from Column B. Consider if the thought is balanced and factual or extreme.	Use the Patterns of Problematic Thinking Worksheet to decide if this is one of your problematic patterns of thinking.	What else can I say instead of Column B? How else can I interpret the event instead of Column B? Rate belief in alternative thought(s) from 0-100%
		Evidence For?	Jumping to conclusions:	
		Evidence Against?	Exaggerating or minimizing:	
		Habit or fact?	Ignoring important parts:	
		Not including all information?	Oversimplifying:	
		All or none?		
		Extreme or exaggerated?		
	C. Emotion(s) Specify sad, angry, etc., and rate how strongly you feel each emotion from 0-100%	Focused on just one piece?	Over-generalizing:	G. Re-rate Old Thought/Stuck Point Re-rate how much you now believe the thought/stuck point in Column B from 0-100%
		Source dependable?	Mind reading:	
		Confusing possible with likely?		
		Based on feelings or facts?		
		Focused on unrelated parts?		
				H. Emotion(s) Now what do you feel? 0-100%

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