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The Psychology of Habit Change: A Behavioral Science Perspective on Meditation as a Mechanism of Change

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Article History:

Received: 6 July 2025; Accepted: 5 August 2025; Published: 16 August 2025

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Abstract This review critically examines how meditation, particularly mindfulness-based practices, contributes to habit change through mechanisms grounded in behavioral science. Drawing on dual-process theories, reinforcement learning, and self-regulation models, the paper explores how meditation enhances meta-awareness, disrupts automatic behavioral loops, and facilitates intentional change. Neuroplasticity and attentional control are discussed as mediating factors, supported by neuroimaging studies. The review synthesizes evidence across domains such as substance use, emotional regulation, digital behavior, and eating patterns, while also addressing methodological weaknesses including self-report bias, limited longitudinal data, and inconsistencies in defining mindfulness. An integrative framework is proposed, bridging cognitive neuroscience, contemplative psychology, and behavior analysis. Future research should focus on controlled trials, mechanistic specificity, and diverse populations. By situating meditation within established behavioral paradigms, this review offers a grounded yet innovative perspective on how contemplative practices can reshape automaticity and support sustained habit transformation.

Keywords habit change, mindfulness, meditation, behavioral science, automaticity, neuroplasticity, cognitive control, dual-process theory

Volume 13, 2025

Publisher: The Brooklyn Research and Publishing Institute, 442 Lorimer St, Brooklyn, NY 11206, United States.

DOI: 10.15640/jpbs.v13p5

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Citation: Arora, A. (2025). The Psychology of Habit Change: A Behavioral Science Perspective on Meditation as a Mechanism of Change. *Journal of Psychology & Behavioral Science*, 13, 42-50. <https://doi.org/10.15640/jpbs.v13p5>

1. Introduction

1.1. Background and Rationale

Human behavior is largely governed by habits—automatic responses to environmental cues that require minimal conscious effort (Wood & Neal, 2007). From daily routines like brushing teeth to more complex behaviors such as social media checking or emotional eating, habits pervade every aspect of life. These automatic processes allow individuals to navigate their environments efficiently without constant decision-making, conserving cognitive resources for novel or complex tasks. However, while some habits promote adaptive functioning and well-being, others can become maladaptive, contributing to a range of negative health outcomes such as obesity, substance dependence, anxiety, and depression. The challenge of breaking maladaptive habits lies in their inherent automaticity. Unlike goal-directed behaviors that require conscious planning, habits are cued by context and proceed with little deliberation. Even when individuals possess strong intentions to change, ingrained habits often persist due to deeply embedded stimulus-response associations. Consequently, interventions that merely target conscious intentions may fail to produce sustainable change unless they also address the underlying habitual processes.

In recent years, there has been a surge of interest in meditation, particularly mindfulness-based interventions (MBIs), as promising tools for behavior modification. Rooted in ancient contemplative traditions but refined through modern psychological science, MBIs emphasize cultivating present-moment awareness and non-reactivity toward thoughts, emotions, and sensations. Empirical research has demonstrated that meditation practices can enhance self-regulation, improve attentional control, reduce stress, and foster emotional balance—psychological capacities closely linked to the disruption of automatic behaviors and the facilitation of habit change.

Moreover, emerging evidence from cognitive neuroscience suggests that meditation induces neuroplastic changes in brain regions implicated in attention, executive function, and emotion regulation, offering potential biological pathways through which meditation might influence behavior. Despite this growing body of research, significant questions remain regarding the precise psychological and neurobiological mechanisms by which meditation facilitates behavioral change. Specifically, how does meditation alter the cognitive and affective processes that sustain habitual behaviors? Can meditation be systematically integrated into behavior change interventions to enhance efficacy and sustainability? Addressing these questions is critical not only for theoretical advancement but also for practical applications in health promotion and psychological well-being.

1.2. Objectives

The primary objective of this paper is to integrate behavioral science theories of habit formation with empirical research on meditation to elucidate how meditation can serve as a mechanism of change. By synthesizing insights from psychology, neuroscience, and contemplative science, this paper aims to provide a comprehensive framework for understanding the role of meditation in habit disruption and behavior transformation.

The specific aims of this paper are as follows:

1. Analyzing established models of habit formation and change, including cue-routine-reward loops and dual-process theories, to highlight the psychological underpinnings of habitual behavior.
2. Examining how meditation influences cognitive, emotional, and neural processes relevant to habit disruption, such as enhancing self-awareness, reducing automaticity, and improving executive function.
3. Reviewing empirical studies on meditation-based interventions that have demonstrated effectiveness in modifying behaviors such as smoking, overeating, substance use, and sedentary lifestyles.
4. Identifying theoretical gaps and methodological challenges in current research and proposing future research directions that can inform both scientific understanding and practical intervention design.

By achieving these aims, this paper seeks to advance a nuanced perspective on how meditation can be leveraged as an effective tool for fostering adaptive behavior change, ultimately contributing to individual well-being and public health.

1.3. Methodological Note

This paper adopts a narrative review methodology to synthesize findings across behavioral science, neuroscience, and contemplative research. Sources were identified through targeted searches on databases such as PubMed, PsycINFO, and Google Scholar, using keywords including “habit change,” “meditation,” “self-regulation,”

“mindfulness-based interventions,” and “behavioral neuroscience.” Selection emphasized peer-reviewed journal articles, meta-analyses, and theoretical works published over the last two decades, alongside foundational texts. A narrative review was selected over a systematic review to allow flexible integration of diverse perspectives and theoretical frameworks, supporting a broad conceptual synthesis while maintaining academic rigor.

2. Theoretical Foundations

2.1. Models of Habit Formation and Change

Understanding the formation and modification of habits is foundational to behavioral science and essential for designing effective interventions. Habit formation is generally conceptualized as a process through which repeated behaviors become automatic responses to specific environmental cues. Multiple theoretical models have been proposed to explain this process, each highlighting different psychological and neurobiological components. At its core, habit formation involves the transition from deliberate, goal-directed actions to more automatic, stimulus-driven behaviors. This shift is influenced by reinforcement learning mechanisms, cognitive control processes, and emotional regulation. Models such as the cue–routine–reward loop illustrate the cyclical nature of habits and their reinforcement, while dual-process frameworks distinguish between automatic and controlled cognitive systems that govern behavior.

Furthermore, recent advances in neuroscience have enriched these models by identifying neural circuits involved in habit learning and disruption, including the basal ganglia, prefrontal cortex, and limbic system. By integrating insights from these diverse perspectives, behavioral scientists can better understand why habits persist and how they might be effectively changed. In the following sections, key models of habit formation and change are examined in detail to provide a comprehensive theoretical foundation for exploring meditation’s role as a mechanism of habit disruption and behavior transformation.

2.1.1. The Cue–Routine–Reward Model

One of the most widely recognized models of habit formation is the cue–routine–reward loop popularized by [Duhigg \(2012\)](#). According to this model, every habit consists of three key components: a cue that triggers the behavior, the routine or behavior itself, and a reward that reinforces the behavior. Over time, the brain associates the cue with the reward, making the behavior increasingly automatic. This model explains how habits become entrenched through repeated pairings and how they can persist even when the reward is no longer immediately experienced. Another example is that of [Lally et al. \(2010\)](#) who conducted a longitudinal study showing that habit formation for new behaviors like healthy eating or exercise often takes an average of 66 days, depending on behavioral complexity. Similarly, [Wood and Quinn \(2005\)](#) demonstrated through daily diary studies that habitual behaviors are strongly context-dependent and persist even when motivation is low, underscoring the importance of contextual cues.

Understanding this loop is essential for designing interventions aimed at habit change. By identifying and modifying cues, altering the routine, or changing the perceived reward, individuals can disrupt the automatic cycle. However, mere cognitive awareness of this loop is often insufficient; individuals need tools that help them remain conscious in moments when automatic behaviors are most likely to occur—a role that meditation can fulfill by fostering present-moment awareness.

2.1.2. Dual-Process Frameworks

Another influential theoretical approach comes from dual-process models of cognition, which differentiate between two systems of information processing: System 1, which is fast, automatic, and intuitive, and System 2, which is slow, deliberate, and reflective ([Evans & Stanovich, 2013](#)). Habits operate predominantly within System 1, enabling quick, effortless action but often bypassing conscious oversight. Breaking or altering habits, therefore, requires the engagement of System 2 processes that can override automatic impulses. Meditation has been shown to strengthen these reflective capacities by enhancing executive control, attentional regulation, and emotional awareness. By doing so, meditation helps individuals shift from habitual, reactive responses to intentional, goal-directed behaviors, a transition critical for successful behavior change.

2.1.3. Reinforcement Learning Models

Reinforcement learning models, drawn from both psychology and neuroscience, emphasize how behaviors are shaped and maintained through feedback and reward prediction. Dopaminergic pathways in the brain reinforce behaviors that yield positive outcomes, while the extinction of reinforcement can gradually weaken unwanted behaviors. These models provide a neurocomputational framework for understanding why certain habits persist and how new, healthier habits can be instilled. Meditation may influence reinforcement learning processes by altering the way individuals perceive and respond to rewards and punishments. For example, mindfulness practice has been shown to reduce the salience of addictive cues and diminish the rewarding properties of maladaptive behaviors, thereby facilitating the learning of new, more adaptive behavioral patterns (Garland et al., 2014).

2.2. Meditation within Behavioral Science

Meditation, and mindfulness in particular, can be understood through the lens of behavioral science as a practice that enhances meta-cognition—the ability to observe one's own thoughts, emotions, and behaviors without becoming entangled in them. This meta-awareness allows individuals to step back from automatic reactions and instead make conscious, values-driven choices. From a behavioral standpoint, meditation serves as an "interrupt" in the habitual stimulus-response chain. It fosters tolerance for discomfort, awareness of urges, and acceptance of transient emotional states, all of which are crucial for resisting the pull of entrenched behaviors. Moreover, meditation encourages cognitive flexibility and openness to new experiences, qualities associated with successful habit change across a range of behavioral domains.

2.3. Hypothesized Psychological Mechanisms

Meditation is theorized to facilitate habit change through several interconnected psychological processes. These mechanisms help explain how meditation interrupts automatic, habitual behaviors and supports the adoption of new, intentional actions. By enhancing cognitive and emotional regulation, meditation fosters greater self-awareness, executive control, and flexibility in responding to habitual cues. The following sub-subsections explore key hypothesized mechanisms, including enhanced awareness and decentering, strengthened executive function, improved emotion regulation, and neuroplasticity, all of which contribute to meditation's efficacy in promoting sustainable behavior change.

2.3.1. Enhanced Awareness and Decentering

One of the central mechanisms through which meditation facilitates habit change is the cultivation of enhanced awareness. By bringing attention to the present moment, individuals become more attuned to the internal and external cues that precede habitual behavior. Decentering—viewing thoughts and feelings as transient mental events rather than absolute truths—further enables individuals to disengage from automatic reactions (Teper, Segal, & Inzlicht, 2013).

2.3.2. Strengthened Executive Function

Executive functions such as attentional control, inhibitory regulation, and cognitive flexibility are critical for overriding habitual impulses. Regular meditation has been associated with improvements in these executive capacities, which in turn support intentional behavior change. Mindfulness training has been shown to increase activity and connectivity in prefrontal brain regions responsible for self-control (Tang, Hölzel, & Posner, 2015).

2.3.3. Emotion Regulation

Emotional triggers often underlie habitual behaviors, particularly those related to stress, anxiety, or reward seeking. Meditation enhances emotion regulation by reducing amygdala reactivity and increasing prefrontal modulation of emotional responses. This emotional stability allows individuals to respond to triggering situations with greater composure, reducing the likelihood of habitual relapse (Chambers, Gullone, & Allen, 2009).

2.3.4. Neuroplasticity

Finally, the effects of meditation on neuroplasticity—the brain's capacity to reorganize and form new neural connections—provide a biological substrate for habit change. Longitudinal neuroimaging studies have demonstrated structural changes in brain regions associated with attention, emotional regulation, and self-referential processing following sustained meditation practice (Lazar et al., 2005). Together, these psychological and neurobiological

mechanisms offer a compelling explanation for how meditation can serve as a catalyst for meaningful and sustained habit change, positioning it as a valuable component of behavioral interventions targeting a wide range of health-related and psychological outcomes.

3. Empirical Evidence on Meditation and Habit Change

3.1. Meditation-Based Interventions for Behavior Change

A growing body of empirical research supports the use of meditation-based interventions (MBIs) for facilitating habit change across a variety of behavioral domains. Mindfulness-Based Stress Reduction (MBSR), Mindfulness-Based Cognitive Therapy (MBCT), and Acceptance and Commitment Therapy (ACT) have all demonstrated efficacy in helping individuals modify maladaptive habits such as smoking, overeating, and substance use. These interventions typically combine formal meditation practices with psychoeducation and behavior change strategies, providing a structured approach to cultivating mindfulness and self-regulation.

Randomized controlled trials (RCTs) examining the impact of meditation on smoking cessation, for example, have found that participants receiving mindfulness training exhibit significantly higher abstinence rates compared to control groups (Brewer et al., 2011). In a neuroimaging study by Westbrook et al. (2013), mindfulness practice was associated with decreased activity in the subgenual anterior cingulate cortex and ventral striatum—regions linked to craving—during exposure to smoking cues. Garland et al. (2014) found that participants in a mindfulness-oriented recovery enhancement program exhibited significant reductions in opioid craving and relapse rates, supporting meditation's role in disrupting maladaptive habit loops and modifying reward processing. These studies together suggest that meditation can alter both subjective experience and neurobiological responses to habitual triggers.

Similarly, mindfulness-based interventions have shown promise in reducing binge eating behaviors by helping individuals recognize emotional triggers and develop non-reactive awareness toward cravings (Kristeller & Wolever, 2011). Albers et al. (2012) found that a brief mindfulness intervention reduced episodes of emotional eating in individuals high in baseline eating restraint, suggesting that meditation can buffer the effect of negative affect on maladaptive eating patterns.

Beyond clinical populations, meditation has been employed in workplace settings, educational environments, and community-based programs to promote healthier habits such as increased physical activity, improved dietary choices, and stress management. For instance, a randomized study by Cox et al. (2016) found that mindfulness training led to a significant increase in weekly exercise frequency and improved self-monitoring of health behaviors among sedentary adults. Meta-analyses consistently demonstrate that mindfulness interventions produce small to moderate effect sizes in promoting behavior change, particularly when combined with motivational strategies or behavioral activation techniques (Khoury et al., 2015).

3.2. Mechanisms of Change in Empirical Studies

Empirical studies provide support for several of the hypothesized mechanisms described earlier. Neuroimaging research has revealed that mindfulness training strengthens functional connectivity between the prefrontal cortex and limbic regions, improving emotion regulation and cognitive control (Hölzel et al., 2011). These neural changes correspond with self-reported increases in mindful awareness, reduced automaticity, and greater tolerance for discomfort—factors essential for habit disruption. Moreover, longitudinal studies have demonstrated that meditation can reduce reward sensitivity to maladaptive cues. For instance, participants undergoing mindfulness training for smoking cessation showed diminished activation in brain regions associated with craving and reward valuation (Westbrook et al., 2013). This supports the notion that meditation alters reinforcement learning processes by reducing the salience of habit-related rewards.

Additional evidence highlights the role of affective regulation as a mediator of behavior change. Studies on mindfulness and emotional eating, for example, have found that improvements in distress tolerance and reduced reactivity to negative emotions account for reductions in overeating behaviors (Albers et al., 2012). Similarly, interventions targeting procrastination and sedentary lifestyles have shown that increased meta-cognitive awareness allows individuals to interrupt avoidance-based habits and engage in value-driven actions (Scent & Boes, 2014).

3.3. Limitations of Current Evidence

While the empirical support for meditation-based habit change is promising, several limitations warrant consideration. Many studies suffer from small sample sizes, short follow-up periods, and reliance on self-report measures, which may limit generalizability and objectivity. Additionally, heterogeneity in intervention protocols, duration, and delivery methods makes it difficult to isolate the "active ingredients" of meditation responsible for change. Another challenge lies in participant adherence and engagement. Meditation requires sustained practice over time, and drop-out rates in mindfulness-based programs can be high, particularly in non-clinical populations. Identifying predictors of adherence and tailoring interventions to individual needs remain critical areas for future research.

Finally, cultural and contextual factors influencing the efficacy of meditation-based interventions are often underexplored. Most empirical studies have been conducted in Western contexts, potentially limiting the applicability of findings across diverse cultural settings where conceptualizations of mindfulness and habit differ. Future studies should aim for greater inclusivity and examine the role of cultural values, spiritual beliefs, and socio-economic factors in shaping the outcomes of meditation-based behavior change interventions. By addressing these limitations, the field can move toward developing more robust, scalable, and individualized meditation-based strategies for sustainable habit transformation.

4. Future Directions and Practical Implications

4.1. Directions for Future Research

Building on the existing empirical foundation, future research should aim to address the methodological limitations identified in current studies while advancing theoretical understanding of how meditation influences habit change. Larger-scale randomized controlled trials with diverse populations and longer follow-up periods are essential for establishing the robustness and generalizability of findings. Furthermore, integrating objective behavioral measures, physiological markers, and neuroimaging data can help triangulate self-report outcomes and provide a more comprehensive picture of intervention effects.

One promising avenue for future research involves the identification of individual difference factors that moderate the effectiveness of meditation-based interventions. Variables such as baseline mindfulness levels, personality traits, cognitive styles, stress reactivity, and prior meditation experience may influence how individuals respond to meditation practices. Personalized intervention approaches that tailor meditation techniques to individual profiles could enhance adherence, engagement, and outcomes. Additionally, more research is needed to explore the optimal "dose" of meditation required for meaningful behavior change. While some studies suggest that even brief mindfulness practices can yield benefits, others highlight the importance of sustained and intensive practice. Determining the minimal effective dose, as well as identifying critical components of meditation interventions (e.g., focused attention vs. open monitoring), can inform scalable and time-efficient program designs.

Cross-cultural research also represents a significant gap in the literature. Investigating how meditation and mindfulness are conceptualized, practiced, and received in non-Western cultural contexts can deepen our understanding of their universality and cultural specificity. This research could also help adapt interventions to be more culturally sensitive, thereby improving accessibility and relevance for global populations. Future studies should examine the integration of meditation with other behavior change techniques, such as motivational interviewing, cognitive restructuring, and technology-based interventions (e.g., mobile apps, biofeedback). Such integrative approaches may amplify the effects of meditation and create synergistic pathways for lasting habit change.

4.2. Practical Implications for Intervention Design

The insights gained from research on meditation and habit change have significant implications for the design and implementation of behavior change interventions across various domains, including healthcare, education, organizational settings, and community programs. In healthcare, meditation-based interventions can be incorporated into smoking cessation programs, weight management efforts, and chronic disease prevention initiatives. Given the growing prevalence of lifestyle-related health conditions, scalable meditation programs can offer cost-effective solutions to promote healthier behaviors and reduce healthcare costs. Healthcare providers may benefit from training in delivering brief mindfulness interventions or from partnering with meditation teachers to co-develop integrated programs.

In educational settings, incorporating mindfulness training into school curricula can equip students with self-regulation skills that support academic performance, emotional well-being, and positive social behaviors. Early intervention through mindfulness practices can foster lifelong healthy habits, reduce stress, and enhance resilience in young populations. In organizational contexts, meditation programs can be employed to address workplace stress, improve productivity, and promote well-being. Habitual patterns such as multitasking, procrastination, and work-related anxiety can be mitigated through mindfulness-based interventions that enhance focus, reduce reactivity, and cultivate greater presence and engagement at work.

Community-based interventions, including those targeting underserved populations, can leverage meditation to address social determinants of health and behavioral risks associated with socioeconomic disadvantage. Culturally adapted mindfulness programs delivered through community organizations, faith-based groups, or digital platforms can increase accessibility and impact.

To maximize effectiveness, practitioners designing meditation-based behavior change programs should consider the following practical guidelines:

1. Start small and build gradually: Encouraging brief, manageable practices initially can help participants build confidence and establish consistency before progressing to longer sessions.
2. Emphasize experiential learning: Providing opportunities for reflection, discussion, and experiential exercises can deepen participants' understanding and integration of mindfulness principles.
3. Foster social support: Group-based meditation programs or online communities can enhance motivation, accountability, and a sense of belonging.
4. Incorporate flexibility and personalization: Adapting practices to individual needs, preferences, and cultural contexts can increase engagement and relevance.
5. Utilize technology wisely: Mobile apps, guided audio recordings, and digital reminders can support home practice and enhance intervention scalability.

4.3. Policy and Public Health Considerations

As meditation gains recognition as a viable tool for behavior change, policy-level initiatives can play a crucial role in supporting its integration into public health strategies. Policymakers can promote the inclusion of mindfulness programs in schools, healthcare systems, and workplace wellness initiatives. Funding for large-scale research and program development can help build the evidence base needed for broader adoption. Public awareness campaigns that highlight the benefits of meditation for behavior change can also help reduce stigma, misconceptions, and barriers to engagement. Ensuring that meditation programs are accessible to marginalized and underserved communities should be a priority in public health planning, with particular attention to addressing cultural, linguistic, and financial barriers.

Moreover, collaboration between governments, healthcare organizations, educational institutions, and private sector stakeholders can foster innovation in the delivery of meditation-based interventions and ensure their sustainability and reach. By advancing research, refining intervention strategies, and embedding meditation into policy and practice, meditation has the potential to serve as a transformative tool for fostering positive habit change and enhancing overall well-being on a societal scale.

5. Conclusion

This paper has examined the intersection of behavioral science and meditation, highlighting meditation's potential as a powerful mechanism for facilitating habit change. Drawing from established models of habit formation, dual-process theories, and reinforcement learning frameworks, the discussion underscored the psychological and neurobiological mechanisms through which meditation disrupts automatic behaviors and fosters adaptive change. Empirical evidence demonstrates that meditation enhances self-awareness, strengthens executive functioning, improves emotion regulation, and induces neuroplasticity—each of which contributes to the ability to interrupt maladaptive habits and adopt healthier patterns. While meditation-based interventions have shown promising results across a variety of behavioral domains, including smoking cessation, emotional eating, and stress management, challenges related to methodological rigor, individual variability, cultural adaptation, and long-term sustainability remain.

Looking ahead, future research should prioritize larger and more diverse samples, employ longitudinal designs, and explore the integration of meditation with complementary behavior change techniques. Personalized interventions that consider individual differences in cognitive style, emotional regulation capacity, and cultural context will be key to optimizing effectiveness. Additionally, advancing technology-enabled meditation tools may offer scalable solutions for broad dissemination. Practical applications of meditation for behavior change extend across healthcare, education, workplace wellness, and community development, offering cost-effective, accessible strategies to promote resilience, self-regulation, and overall well-being. Policy initiatives that support the inclusion of meditation in public health strategies and social services can further amplify its reach and impact.

In conclusion, meditation offers a promising, evidence-based pathway for fostering sustainable habit change by empowering individuals to shift from automatic, reactive patterns to intentional, mindful actions. By continuing to integrate insights from behavioral science, neuroscience, and contemplative traditions, the field can further harness meditation's transformative potential to promote individual and societal flourishing.

Conflict of Interest: None declared.

Ethical Approval: Not applicable.

Funding: None.

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Amira Arora is a psychology student whose research focuses on the integration of spirituality and mental health, with a particular emphasis on trauma recovery, depression, and cognitive development. She is the host of Under The Tree, a podcast that facilitates in-depth dialogues with neuroscientists, spiritual leaders, and psychologists on topics related to consciousness, psychological well-being, and the intersection of science and spirituality. Amira has also served as a peer reviewer for The Journal of Humanistic Psychology.

In addition to her academic pursuits, Amira Arora developed HeadsUp, a cognitive-assistive diagnostic tool for the early detection of mild traumatic brain injury (mTBI). Her work has earned recognition from the MIT Society of Women Engineers and the Yale's Science & Engineering Department. Amira's long-term goal is to contribute to spiritually integrated psychotherapy, advancing empirical research on transformative experiences and fostering therapeutic approaches that honor both scientific rigor and the human capacity for transcendence.

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