

Marijuana Use: Understanding Behavioral Intentions

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The Foundation of Behavioral Intentions Regarding Marijuana Use

Behavioral intentions represent the immediate antecedent to actual behavior, serving as the motivational core that guides an individual's decision-making process concerning the use of marijuana. Within the field of psychology, particularly social cognition, intentions are conceptualized as a person's readiness or willingness to perform a specific action, and they are generally considered the single best predictor of volitional behavior, assuming adequate control over the action exists. Understanding the formation and strength of these intentions is paramount for developing effective public health interventions, especially given the evolving legal and social landscape surrounding cannabis worldwide. Intentions are not merely passive desires but active commitments to act, often reflecting a complex synthesis of cognitive evaluations, normative pressures, and perceived capabilities, making them a crucial target for predictive modeling and behavioral change research in the context of substance use. Furthermore, the specificity with which intentions are measured--detailing the target behavior, the context, the time frame, and the action itself--significantly determines their predictive power, necessitating meticulous methodological approaches when studying prospective marijuana use among diverse populations, such as adolescents, young adults, or chronic users seeking cessation.

The psychological architecture underpinning behavioral intentions posits that individuals are generally rational actors who process available information before committing to a course of action; consequently, the intention to use marijuana is shaped by a structured cognitive assessment rather than purely impulsive urges. This assessment typically involves weighting the perceived advantages against the disadvantages of use, evaluating social acceptance or disapproval, and gauging one's ability to successfully execute the behavior, such as accessing the substance or using it discreetly. A strong intention to use marijuana is indicative of a high degree of motivation and planning, suggesting that the individual has resolved internal conflicts and is mentally prepared to proceed, whereas a weak or negative intention often signals a commitment to abstinence or reduction. Crucially, the transition from intention to action is not always seamless, and researchers must account for the intention-behavior gap, which highlights that even strong intentions can fail to translate into behavior due to unforeseen situational barriers, competing priorities, or shifts in motivation occurring between the measurement of the intention and the opportunity for the behavior to occur.

The study of behavioral intentions in relation to marijuana use must also differentiate between various forms of use, as the intention to experiment once is fundamentally different from the intention to maintain chronic, heavy use, or the intention to seek therapeutic application. Intentions are dynamic and can fluctuate over time, influenced by new information--such as changes in legal status or personal experiences--or shifts in personal circumstances, like entering a new social group or experiencing academic stress. Therefore, longitudinal studies are essential for tracking the stability and predictive validity of these intentions across developmental stages, particularly

during adolescence and emerging adulthood when substance use initiation is most common and patterns of use are being established. The concept of intention provides a necessary bridge between distal psychological variables, such as personality traits or genetic predispositions, and the proximal act of consumption, establishing it as a central mediating variable in most contemporary models of addiction and health behavior.

Theoretical Models Predicting Marijuana Use

The primary theoretical framework utilized globally for predicting and explaining behavioral intentions, including those related to marijuana use, is the **Theory of Planned Behavior (TPB)**, an extension of the earlier Theory of Reasoned Action (TRA). The TPB posits that intentions are determined by three core psychological constructs: attitudes toward the behavior, subjective norms, and perceived behavioral control (PBC). Applied to marijuana use, this model suggests that an individual's intention to consume cannabis is stronger if they hold positive attitudes toward the experience (e.g., believing it promotes relaxation), perceive that important social referents approve of the behavior (subjective norms), and believe they have the necessary resources and capabilities to successfully perform the behavior (PBC). This comprehensive model allows researchers to isolate specific cognitive targets for intervention, moving beyond simple correlational studies to identify the mechanisms through which social and personal factors exert their influence on substance use decisions.

While the TPB provides a robust foundation, its application to behaviors that are potentially addictive or subject to strong external constraints, such as the illegality or restricted access associated with marijuana in many jurisdictions, requires careful consideration of its components. The original TRA, which focused only on attitudes and subjective norms, was largely limited to purely volitional behaviors, whereas the TPB introduced the crucial element of **Perceived Behavioral Control** to account for non-volitional constraints. For instance, an individual might hold positive attitudes toward marijuana use and perceive social approval (strong norms), yet if they believe they cannot afford the substance or fear legal repercussions (low PBC), their intention to use will be significantly diminished. Conversely, for individuals seeking cessation, low PBC--a lack of confidence in their ability to resist cravings or maintain abstinence--is a powerful predictor of relapse, even when attitudes toward abstinence are highly positive.

Other theoretical perspectives, such as the Health Belief Model (HBM) and Social Cognitive Theory (SCT), also contribute to the understanding of marijuana use intentions, often complementing the TPB by emphasizing different motivational factors. The HBM focuses on perceived threat (susceptibility and severity of negative outcomes) and perceived benefits (efficacy of use or abstinence), influencing the decisional balance that feeds into intention formation. SCT, particularly through the concept of **outcome expectancies** and **self-efficacy**, provides a more dynamic view, highlighting the reciprocal interaction between personal factors, environmental

influences, and behavior. While the TPB remains the most structured predictor of immediate intentions, integrating elements from SCT, such as planning and coping self-efficacy, has been shown to enhance the predictive power of models targeting complex, habitual behaviors like chronic substance use.

The Role of Attitudes and Beliefs

Attitudes toward marijuana use are defined as the individual's overall positive or negative evaluation of performing the behavior, derived from the sum of their beliefs about the specific outcomes associated with use and the value they place on those outcomes. These behavioral beliefs are highly specific and often polarized, encompassing perceptions of both immediate psychoactive effects and long-term consequences. For example, a positive attitude is fostered by beliefs that marijuana use leads to relaxation, enhanced creativity, or social bonding, coupled with a high valuation of these outcomes. Conversely, negative attitudes arise from beliefs concerning potential negative effects, such as impaired cognitive function, legal penalties, or dependence, particularly when the individual views these outcomes as highly undesirable. The strength of the intention to use is directly proportional to the favorability of the overall attitude toward use, making the modification of underlying outcome beliefs a central strategy in prevention programs.

The formation of these attitudes is heavily influenced by personal experience, vicarious learning, and exposure to media and cultural narratives, often leading to systematic biases in risk perception. Young adults, for instance, frequently overestimate the positive social consequences of marijuana use while underestimating the genuine health risks, a phenomenon exacerbated by the normalization of cannabis in popular culture and the perceived safety associated with legalization movements. A critical component of attitude formation involves the assessment of **perceived severity** and **perceived susceptibility**--key concepts borrowed from the Health Belief Model--where low perceived severity of harm (e.g., viewing cannabis as harmless) and low perceived susceptibility to negative effects (e.g., believing addiction only happens to others) contribute significantly to a positive attitude and, consequently, a stronger intention to use. Interventions aimed at shifting intentions must therefore focus not just on disseminating facts, but on altering the subjective valuation of outcomes and correcting misperceptions of risk and prevalence.

Attitudes are not monolithic; they often exist on a continuum of ambivalence, particularly among individuals contemplating cessation or reduction. An individual might simultaneously hold strong positive beliefs about the stress-relieving properties of marijuana and equally strong negative beliefs about its impact on professional goals. This ambivalence can lead to weaker, less stable intentions, as the individual struggles to resolve these conflicting evaluations. Furthermore, the concept of anticipated regret--the predicted negative emotion resulting from performing the behavior--serves as a powerful negative affective component of attitude that can significantly mitigate intentions to use, even when other factors are favorable. Effective interventions often

employ motivational interviewing techniques to help individuals systematically explore and resolve this ambivalence, strengthening the negative components of the attitude and reinforcing intentions toward abstinence or responsible use.

Subjective Norms and Social Influence

Subjective norms represent the individual's perception of the social pressure to engage or not engage in marijuana use, derived from two distinct components: injunctive norms and descriptive norms. **Injunctive norms** refer to the perception of whether important others (known as referents, such as parents, close friends, or partners) approve or disapprove of the behavior. If an individual believes their closest friends expect or desire them to use marijuana, the injunctive norm component will positively influence their intention to use. **Descriptive norms**, conversely, refer to the perception of how frequently the behavior is actually performed by important others; if an individual believes that most of their peers regularly use marijuana, they are more likely to form an intention to use themselves, driven by a desire for social conformity and integration. Research consistently demonstrates that peer influence, operationalized through these normative beliefs, is one of the most powerful predictors of initiation of marijuana use among adolescents and young adults.

A significant challenge in addressing normative influences is the widespread phenomenon of **pluralistic ignorance**, or the systematic misperception of actual group norms. Studies frequently show that individuals, especially college students, vastly overestimate the prevalence and acceptability of heavy marijuana use among their peers, leading to inflated descriptive norms that erroneously strengthen their own intentions to use. This discrepancy arises because high-risk behaviors are often more visible or loudly broadcasted than abstinence or moderate use, creating a skewed social reality. Correcting these misperceptions through targeted interventions, known as social norms marketing campaigns, has proven to be an effective public health strategy. By providing accurate, data-driven feedback on the true rates of use and disapproval within a specific reference group, these campaigns aim to reduce the perceived social pressure and weaken the intention to engage in unnecessary conformity.

The reference group itself plays a critical role in determining the weight assigned to subjective norms. For adolescents, peer groups and close friends often exert the strongest normative influence, sometimes overriding parental disapproval, especially as autonomy increases. However, for older adults or individuals seeking medical cannabis, the influence of professional referents, such as physicians or legal authorities, may become more salient, influencing intentions regarding therapeutic use and adherence to regulatory guidelines. Furthermore, the concept of moral norms--the individual's personal feelings of moral obligation regarding the behavior--can act as a powerful moderator. Even in the presence of strong positive subjective norms (peer approval), a strong moral conviction against drug use can weaken the intention to use, demonstrating that personal

values interact complexly with external social pressures in the formation of behavioral intentions.

Perceived Behavioral Control and Self-Efficacy

Perceived Behavioral Control (PBC) reflects the individual's perception of the ease or difficulty of performing the behavior, encompassing both internal factors (skills, abilities, willpower) and external factors (time, money, opportunity, legal restrictions). PBC is hypothesized to influence intentions in two ways: indirectly, by shaping the intention itself, and directly, by influencing the actual behavior regardless of intention. For marijuana use, high PBC means the individual feels confident they can easily obtain and use the substance without negative repercussions, thereby strengthening the intention. Conversely, low PBC, stemming from perceived barriers like limited financial resources, fear of drug testing, or difficulty accessing a reliable supply, will weaken the intention to use, even if attitudes and norms are favorable.

A crucial dimension of PBC is **self-efficacy**, which is the confidence an individual has in their ability to successfully execute the specific behavior under various demanding circumstances. In the context of initiation, self-efficacy relates to confidence in one's ability to correctly use the substance (e.g., dosing or managing the effects). More critically, in cessation research, self-efficacy is defined as the confidence in one's ability to resist the urge to use marijuana across high-risk situations (e.g., being offered cannabis at a party, dealing with stress). Low cessation self-efficacy is a powerful predictor of weak intentions to quit and subsequent relapse, even among highly motivated individuals who possess strong negative attitudes toward continued use. Therefore, interventions designed to enhance intentions must focus heavily on building and reinforcing this sense of control through skills training and mastery experiences.

External control factors often play an increasingly important role, especially in jurisdictions where marijuana use remains illegal or highly regulated. The perceived threat of legal consequences, although often poorly correlated with objective risk, acts as a powerful external constraint that reduces PBC and thus weakens intentions. Similarly, the availability and accessibility of the substance--influenced by factors such as proximity to dispensaries or the cost of the product--are environmental controls that directly impact the feasibility of acting on an intention. Researchers often distinguish between perceived control (the subjective belief) and actual control (the objective reality), noting that while perceived control is the direct determinant of intention within the TPB, gaps between perception and reality can lead to failures in prediction. For instance, an individual might highly intend to quit (high intention) and believe they can resist (high PBC), yet objective environmental triggers (actual control barriers) might derail the attempt.

Empirical Evidence and Predictive Validity

Empirical research across diverse populations consistently supports the predictive validity of

behavioral intentions models, particularly the Theory of Planned Behavior, in explaining and forecasting marijuana use. Meta-analyses confirm that intentions are generally strong predictors of future substance use behavior, typically accounting for a substantial proportion of the variance in behavior, although the strength of the prediction can vary based on the specific behavior (e.g., initiation versus maintenance) and the time interval between intention measurement and behavior follow-up. Across studies, the relative influence of the three TPB components--attitudes, subjective norms, and PBC--often shows that attitudes and PBC are generally the strongest and most consistent determinants of intention to use marijuana, while subjective norms, though highly relevant for initiation, sometimes show weaker direct effects on intention, particularly among older, established users whose behavior is more habitual.

However, the predictive utility of intentions is often constrained by the aforementioned intention-behavior gap. While intentions are the best single predictor, they rarely account for 100% of the variance in behavior, necessitating the inclusion of additional variables to improve model fit. Factors that mediate the intention-behavior link include implementation intentions (specific plans detailing when, where, and how the behavior will be executed), habit strength (the automaticity of past behavior), and environmental volatility. For chronic marijuana users, past behavior often exerts a significant direct influence on future use, frequently bypassing the mediating role of intention, suggesting that for highly habitual behaviors, the cognitive processing described by the TPB may be less relevant than automatic responses triggered by environmental cues.

Furthermore, the predictive validity varies significantly depending on the measurement specificity. Research shows that intention measures that are highly specific regarding the type of marijuana product (e.g., edibles versus flower), the context of use (e.g., alone versus social setting), and the time frame (e.g., use within the next week versus next year) yield significantly higher correlations with actual subsequent behavior than vague, general intention measures. This finding underscores the importance of methodological rigor in psychological studies of substance use, emphasizing that the intention measured must align precisely with the behavioral criterion being predicted. Despite these limitations, the TPB remains invaluable because it identifies the modifiable cognitive antecedents--attitudes, norms, and control beliefs--that drive the formation of the intention itself, providing clear targets for preventive intervention.

Moderating Factors and Contextual Influences

Behavioral intentions regarding marijuana use are not formed in a vacuum; they are moderated by a wide array of demographic, psychological, and contextual factors that influence the weighting of attitudes, norms, and control beliefs.

Demographic Factors: Age is a powerful moderator; normative influences (peer approval) tend to be paramount in adolescence, driving initiation intentions, whereas PBC and outcome

expectancies (attitudes) become stronger determinants of maintenance and cessation intentions in adulthood. Gender differences also exist, often showing differential weighting of normative pressures versus perceived risk.

Personality Traits: Traits such as impulsivity, sensation-seeking, and low conscientiousness often weaken the link between negative attitudes and intentions, meaning individuals high in sensation-seeking may intend to use marijuana despite acknowledging significant risks, prioritizing immediate gratification over long-term consequences.

Legal and Policy Context: Changes in the legal status of marijuana (e.g., decriminalization or legalization) profoundly shift the external control factors and the normative landscape. Legalization generally reduces perceived behavioral control barriers (fear of arrest) and can normalize the behavior, leading to weaker negative attitudes and stronger intentions to use, particularly among those who were previously deterred primarily by legal risk.

The distinction between recreational and medical intentions also introduces key contextual moderators. Intentions for medical use are strongly driven by beliefs about the efficacy of cannabis in managing specific symptoms (a highly focused positive attitude) and the advice of healthcare providers (a specific, powerful injunctive norm). Conversely, recreational intentions are more heavily influenced by peer norms and beliefs about enjoyment and social facilitation. Furthermore, the mode of administration (e.g., vaping, smoking, edibles) introduces unique beliefs about risk and social acceptability that moderate the overall intention to consume. For instance, beliefs that vaping is less harmful than smoking may lead to stronger intentions to use vape products, even if the overall intention to consume cannabis remains moderate.

The influence of mental health status serves as another critical moderator. Individuals experiencing high levels of anxiety, depression, or stress may form stronger intentions to use marijuana due to beliefs that cannabis is an effective coping mechanism (a highly valued outcome belief). In these cases, the primary driver of intention is the perceived immediate relief, often overriding concerns about long-term negative effects. This highlights a need for interventions that address underlying psychological distress concurrently with attempts to modify behavioral intentions related to substance use, ensuring that alternative, healthy coping mechanisms are readily available and perceived as efficacious, thereby increasing PBC for abstinence.

Implications for Prevention and Intervention Strategies

The robust predictive power of behavioral intentions models provides a clear roadmap for designing effective prevention and intervention programs targeting marijuana use, centering on the three core determinants of intention. Successful prevention efforts must aim to: (1) create more negative or realistic attitudes toward use, (2) correct misperceived subjective norms, and (3) enhance perceived behavioral control for abstinence.

Attitude Modification: Interventions should focus on correcting erroneous outcome expectancies, particularly those related to social benefits and cognitive enhancement. This involves providing clear, evidence-based education on the actual risks associated with heavy or early-onset use, emphasizing the negative impact on academic performance, mental health, and driving safety. Crucially, attitude change is most effective when it focuses on the outcomes that the individual personally values (e.g., athletic performance or future career success).

Normative Correction: Social norms interventions are highly effective, particularly in institutional settings like universities. These programs utilize targeted messaging to expose and correct the overestimation of peer marijuana use prevalence and acceptability, thereby reducing the perceived social pressure to conform. Furthermore, programs can actively promote protective injunctive norms by highlighting the disapproval of important reference groups, such as parents or respected community leaders.

Enhancing Perceived Behavioral Control: For those seeking cessation, interventions must prioritize boosting self-efficacy. This is achieved through skills training, such as refusal skills, stress management techniques, and cognitive restructuring to manage cravings. Effective programs often use goal-setting strategies and the creation of detailed implementation intentions (e.g., "If I feel stressed after work, then I will go for a run instead of smoking") to bridge the gap between strong intention and actual behavior execution, ensuring that individuals feel capable of maintaining abstinence even in high-risk situations.

Ultimately, interventions informed by behavioral intention theory offer a mechanism for moving beyond simple information dissemination to target the underlying cognitive processes that directly drive substance use decisions. By systematically addressing the attitudes, norms, and control beliefs that feed into the intention to use marijuana, public health specialists can develop highly tailored and effective strategies that promote long-term behavioral change and mitigate the societal risks associated with increasing cannabis availability. The dynamic nature of intentions necessitates ongoing assessment and adjustment of these strategies, ensuring they remain relevant to the evolving social, legal, and personal contexts of marijuana consumption.