

# Analytical Study on Decision Fatigue Among Teenagers

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**Abstract:** Decision fatigue refers to the decline in decision-making quality that occurs after prolonged periods of mental effort and self-control. This phenomenon is particularly relevant to adolescents, as teenagers face an increasing number of daily choices while their cognitive control systems, especially the prefrontal cortex, are still developing. The modern teenage lifestyle—characterized by academic pressure, social expectations, and constant digital engagement—creates an environment of continuous decision-making that can overwhelm limited mental resources. This study examines why decision fatigue affects teenagers more than other age groups and how it negatively influences concentration, self-control, and behavioral outcomes. Drawing on previous research, the paper highlights key consequences of decision fatigue, including impulsive behavior, reliance on mental shortcuts, procrastination, reduced persistence, emotional exhaustion, and impaired judgment. While recent meta-analyses have questioned the universality of the decision fatigue effect, evidence suggests that adolescents remain particularly vulnerable due to emotional sensitivity, limited experience, and high external demands. The study also explores practical strategies to reduce decision fatigue among teens, such as simplifying daily choices, establishing routines, prioritizing sleep and nutrition, making important decisions during periods of high alertness, and strengthening parental support. By understanding and addressing decision fatigue, this research emphasizes the importance of structured environments and supportive guidance in promoting better decision-making, improved concentration, and overall well-being among teenagers. The mental exhaustion and declining quality of choices after making decisions, depleting your willpower and mental energy, leading to procrastination, impulsive choices, or defaulting to easy / bad options. It's like a muscle getting tired; the more choices you face (from what to wear to major work issues), the harder it becomes to make good and thoughtful decisions, causing you to use mental shortcuts or avoid choosing altogether.

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## I. INTRODUCTION

Decision fatigue has become an increasingly important concern in the lifestyle of today's teenagers, as they are required to make a vast number of decisions each day while their cognitive systems are still developing. Decision fatigue refers to the decline in the quality of decisions made after prolonged periods of decision-making, caused by the depletion of mental energy or self-control. For teenagers, this effect is more pronounced because the prefrontal cortex—the part of the brain responsible for planning, judgment, impulse control, and rational thinking—is not fully mature. As a result, teens tire mentally faster and struggle to regulate their emotions and behavior when faced with continuous choices related to academics, social relationships, digital media, appearance, and future goals.

The modern teen environment is filled with constant stimulation and decision demands. From choosing what to wear, what to eat, and how to respond to social media, to making academic and moral decisions, teens rarely get a break from choosing. Over time, this overload reduces concentration, persistence, and self-discipline. Research suggests that decision fatigue can lead to impulsive behavior, increased reliance on mental shortcuts (heuristics), irrational trade-offs, procrastination, decision avoidance, and even ethical lapses. Teens experiencing decision fatigue may act without thinking, delay important tasks, or choose short-term rewards over long-term benefits, often followed by regret and stress.

Previous studies have widely discussed decision fatigue in various contexts. The well-known parole board study showed that judges were more likely to make favorable decisions earlier in the day and less so after making many

prior judgments, highlighting how mental depletion affects decision quality. Similar effects have been observed in medical decision-making, consumer behavior, and self-control tasks. However, recent meta-analyses and replication studies have questioned whether decision fatigue operates as a universal and consistent phenomenon, suggesting that factors such as mindset, motivation, and context may influence its effects. Despite this debate, adolescents remain a high-risk group due to their developmental stage and heightened emotional sensitivity.

Teenagers are particularly vulnerable to decision fatigue because they have limited experience to draw upon and face intense peer pressure, academic competition, and digital distractions. Unlike adults, who can rely on established habits and efficient heuristics, teens often approach decisions emotionally, which further drains their willpower. As mental fatigue sets in, their ability to focus decreases, making it harder to study, manage time, and resist negative influences.

Reducing decision fatigue among teens requires intentional strategies and strong support systems. Simplifying daily choices by creating routines, reducing unnecessary options, and planning ahead can conserve mental energy. Prioritizing adequate sleep, balanced nutrition, and physical activity also plays a crucial role in maintaining cognitive strength. Important decisions should be made earlier in the day when mental alertness is higher, while minor choices can be delegated or automated. Parents and guardians can support teens by providing decision-making frameworks, acting as sounding boards, modeling healthy habits, and encouraging a “good enough” approach rather than perfection. By recognizing and addressing decision fatigue, teens can improve concentration, make better choices, and enhance their overall well-being in an increasingly demanding world.

## II. REVIEW OF LITERATURE

Decision fatigue is a psychological phenomenon describing the gradual deterioration in the quality of decisions made after prolonged periods of decision-making. The concept originates from the broader theory of self-regulation and ego depletion, which proposes that self-control and decision-making draw from a limited pool of mental resources (Baumeister et al., 1998). When these resources are exhausted, individuals are more likely to make impulsive, avoidant, or suboptimal choices. Over the past two decades, decision fatigue has been widely examined in adults; however, a growing body of literature suggests that adolescents are particularly vulnerable due to developmental, environmental, and social factors.

Neuroscientific research highlights adolescence as a critical period of brain development, particularly in the prefrontal cortex, which governs executive functions such as planning, impulse control, and rational judgment (Steinberg, 2014). Because this region matures gradually into early adulthood, teenagers rely more heavily on emotional and reward-based brain systems when making decisions. Casey, Jones, and Hare (2008) argue that this imbalance makes adolescents more susceptible to cognitive overload and

fatigue when exposed to repeated decision-making demands. Consequently, decision fatigue in teens may manifest more rapidly and intensely than in adults.

Empirical studies demonstrate that decision fatigue negatively affects self-control, persistence, and cognitive performance. Baumeister and colleagues (2007) found that individuals who engaged in repeated decision-making tasks showed reduced endurance, increased procrastination, and a higher likelihood of choosing immediate gratification. While these studies primarily involved adults, subsequent research indicates similar patterns among younger populations. Adolescents experiencing mental depletion show reduced academic focus, impaired concentration, and heightened emotional reactivity (Duckworth & Gross, 2014).

One of the most cited studies on decision fatigue is the parole board research by Danziger, Levav, and Avnaim-Pesso (2011), which revealed that judges were significantly more likely to grant parole earlier in the day or after breaks, suggesting that mental fatigue influenced judicial outcomes. Although this study focused on professionals, its implications are relevant for educational contexts, where students make dozens of decisions daily. In schools, continuous academic choices—combined with social and digital decisions—may cumulatively exhaust teens’ cognitive resources, leading to poor judgment and decision avoidance.

Age-related differences in decision fatigue have also been discussed in the literature. Research suggests that experience and habit formation play a buffering role against mental depletion. Inzlicht and Schmeichel (2012) propose that individuals with greater familiarity in decision-making domains rely more efficiently on heuristics, thereby conserving mental energy. This supports findings that older adolescents, such as eighth-grade students, often display better decision resilience than younger peers, such as sixth graders. Accumulated experience allows older teens to automate routine decisions and better manage cognitive load, reducing stress during complex decision-making.

Decision fatigue has also been linked to sleep disturbances and stress. Owens and Weiss (2017) emphasize that inadequate sleep—common among adolescents—exacerbates executive function deficits and reduces the brain’s capacity to manage decisions. Chronic sleep deprivation intensifies decision fatigue, leading to impulsivity, emotional dysregulation, and poor academic outcomes. Additionally, stress acts as both a cause and consequence of decision fatigue, creating a feedback loop that further impairs judgment and motivation (McEwen & Morrison, 2013).

However, the decision fatigue theory has faced criticism in recent years. Large-scale replication studies and meta-analyses have questioned the robustness of ego depletion effects, suggesting that motivational factors, beliefs about willpower, and contextual variables may influence outcomes (Carter et al., 2015). Job et al. (2010) found that individuals who believe willpower is non-limited are less susceptible to depletion effects. Despite this debate, most scholars agree

that adolescents remain a high-risk group due to developmental vulnerability, environmental overload, and limited autonomy over their schedules.

The literature strongly supports intervention-based approaches to mitigate decision fatigue. Establishing routines and reducing trivial choices are widely recommended strategies. Schwartz (2004) argues that excessive choice increases anxiety and dissatisfaction, supporting the idea that simplifying options can enhance well-being. In educational and family settings, structured routines, clear expectations, and decision-making frameworks reduce cognitive burden on adolescents. Parental involvement, modeling effective decision habits, and encouraging satisficing (“good enough” decisions) have been shown to improve adolescent self-regulation (Miller & Byrnes, 2001).

More recent studies emphasize environmental and technological supports. Limiting digital distractions, batching tasks, and using planning tools can reduce context switching, which is known to be cognitively costly (Rosen et al., 2013). Although research on AI-assisted scheduling is emerging, early findings suggest that automation of low-level decisions can preserve executive function for high-stakes tasks.

### III. METHODOLOGY

Primary data refers to information that is collected firsthand by the researcher specifically for the purpose of a particular study or research project. It is original, raw data gathered directly from the source rather than obtained from existing publications or records.

Primary data is typically collected through methods such as surveys, questionnaires, interviews, observations, experiments, or focus group discussions. Because it is collected to address a specific research question, primary data is usually more relevant, accurate, and up to date. However, it can be time-consuming and costly to collect compared to secondary data.

In research studies, primary data allows researchers to have greater control over the data collection process, ensuring that the information directly reflects the objectives of the study.

A questionnaire is a research tool consisting of a structured set of written questions designed to collect information, opinions, attitudes, or behaviors from respondents. It is commonly used to gather primary data in surveys and research studies.

Questionnaires may include open-ended questions,

which allow respondents to answer in their own words, and closed-ended questions, which provide fixed response options such as multiple choice, yes/no, or rating scales. They are widely used because they are cost-effective, easy to administer to large groups, and allow for systematic data analysis.

In research, questionnaires help ensure consistency in data collection, as all participants respond to the same set of questions, making the results more reliable and comparable.

- How often you feel mentally tired because of number of decision you make each day.
- Do you feel that too many options make it harder for you to choose?
- Do you sometimes delay your decision because you feel overwhelming?
- Do you feel that the ability to focus decreases after making several decisions.
- Do you think that your academics is been affected after making several decisions.

The included students are from grade 6 to grade 8.

#### ➤ *Age Group:*

Students are from age group 11 – 13.

#### ➤ *Locality of the Included Student:*

The included students are from KRM PUBLIC SCHOOL.

#### • *What is being Examined?*

Questions about decision fatigue and how it affects young students.

#### • *Limitation of the Study: Small Sample Size:*

✓ 850 Students

#### ➤ *Time Constraints*

• 3 -4 days.

#### ➤ *Research Methodology: Type of Research:*

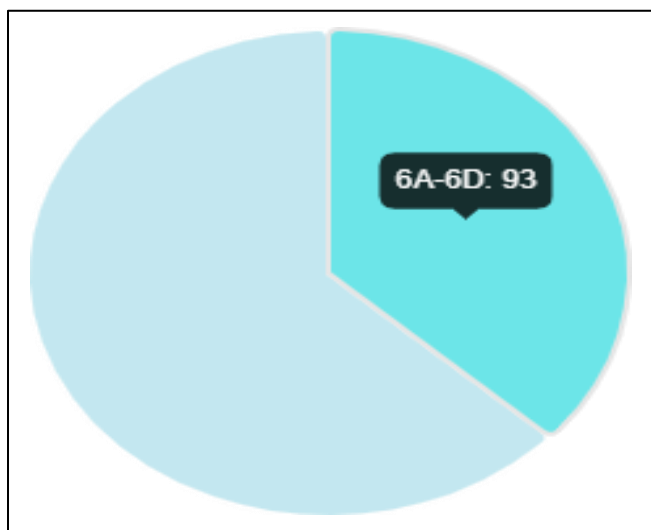
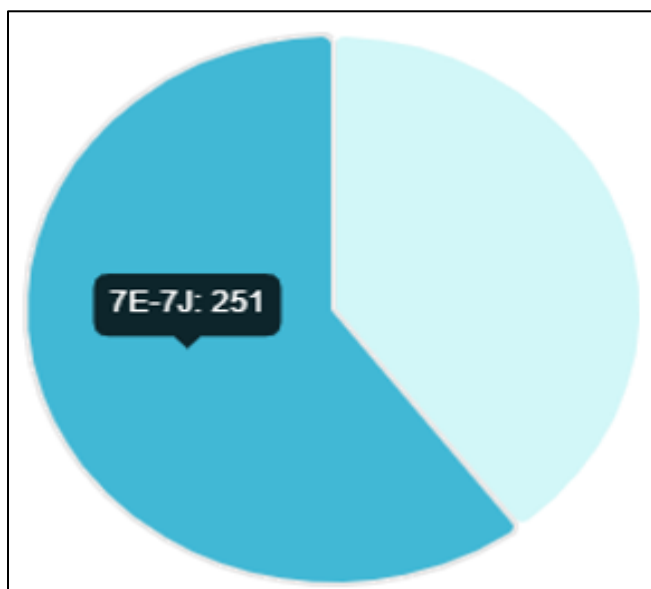
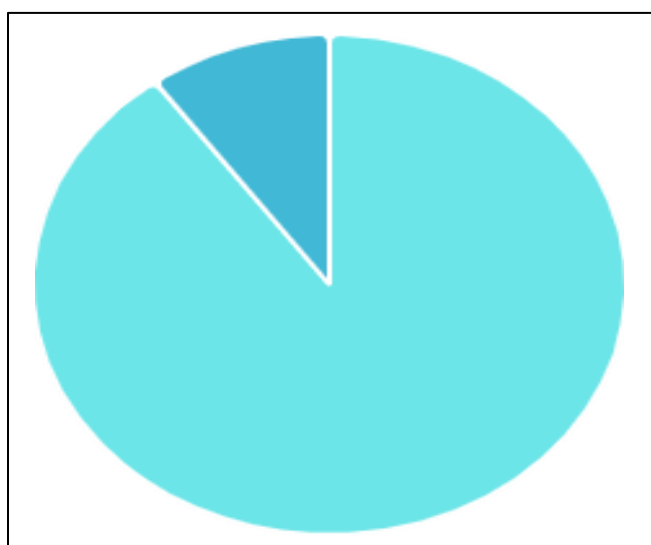
The type of research used in this is mixed-method research and quantitative as well as qualitative. Sample Size:850 Responses were made SAMPLING METHOD: The sample was the survey which was written TOOLS USED: We used google form to type all of the questions for our survey.

#### • *Data Collection Tool:*

We got 850 responses from classes 6A – 8H.

Table 1 Samples

	A	B	C	D	E	F	G	H	I	J
6th	56	56	110	45	54	45	33	28	-	-
7th	62	-	46	67	50	20	40	-	85	54
8th	11	11	12	11	1	2	1	1	-	-

➤ *Data Analysis and Interpretation*Fig 1 6<sup>th</sup> Grade Responses - Pie ChartFig 2 7<sup>th</sup> Grade Responses - Pie ChartFig 3 8<sup>th</sup> Grade Responses - Pie Chart**IV. RESULT**

We discovered that grade 6 had more responses than grade 7 and 8.

➤ *Responses:*

We found that in grade 6 the first question got responses that is 26 to 28 people raised their hands But in grade 7 and 8 the responses were minimal that is 9 to 12 people raised their hands.

**V. DISCUSSION**

Higher levels of stress in decision-making processes compared to their eighth-grade counterparts (age 13). The discussion section explains that this disparity is attributed to the eighth-grade students having acquired more extensive experience over time, learning to navigate choices more effectively or relying on heuristics more efficiently. This suggests that while all teens are vulnerable, age and accumulated experience play a role in developing resilience against the syndrome.

➤ *Final Synthesis of Recommendations*

The overarching conclusion is that parents and educators must intervene with proactive, simple management strategies. The research suggests specific approaches to "make fewer decisions by streamlining your choices".

➤ *Foundational Strategies*

- **Establish Routines:** Standardize daily choices regarding meals, clothing ("personal uniform" or capsule wardrobe), and sleep schedules to minimize mundane decision-making and eliminate thousands of micro-choices that silently drain willpower.
- **Strategic Timing:** Make big decisions early when alertness is high. Schedule high-stakes, complex strategic decisions during your peak cognitive window and defer administrative trivia to the late afternoon when willpower is naturally lower.
- **Parental/Guardian Support:** Adults should act as a sounding board, model good decision-making habits, and help teens implement management strategies like the "good enough" (satisficing) rule for low-stakes options.

➤ *Comprehensive Actionable Strategies for Peak Cognitive Performance*

The study recommends several practical implementation steps.

- **Radical Environmental Control:** Design your physical workspace to be "choice-neutral." Keep only the tools required for your current task visible; everything else should be stored away. This removes the "visual noise" that forces your brain to constantly decide whether to ignore distracting objects.



- The "Rule of Three" for Priorities: Start every morning by identifying exactly three tasks that must be accomplished. Ignore everything else until these are finished. This limits the "priority-switching" fatigue that occurs when you try to juggle a massive list of possibilities.
- Leverage 2025 AI Integration: Utilize advanced scheduling agents like Motion or Reclaim.ai to handle "calendar Tetris". By allowing an algorithm to find the optimal time for tasks, you save the mental energy usually spent on logistical negotiation.
- Batching and "Theming": Group similar tasks together (e.g., all emails at 11:00 AM, all administrative filing on Thursday afternoons). This reduces "context switching," which is one of the most resource-intensive activities the brain performs.
- Strict Digital Boundaries: Use the Freedom app or built-in OS "Focus Modes" to hard-block distracting websites. This moves the decision from "Should I check social media?" to "I literally cannot check social media," saving immense willpower.

#### ➤ *The "Good Enough" Filter for Low*

- Stakes: Actively lower your standards for decisions that won't matter in a week. Whether it's picking a brand of paper towels or choosing a font for an internal memo, give yourself a strict 30-second time limit to "satisfice" and move on.
- Strategic Delegating and "Standard Operating Procedures" (SOPs): Create simple checklists for recurring tasks so that you don't have to "think" through the steps every time. If a task can be done 80% as well by someone else, delegate it to preserve your high-level executive function.
- Physiological Priming: Incorporate "Brain Fuel" protocols by consuming omega-3 fatty acids and maintaining consistent hydration. Dehydration of even 1-2% has been shown to significantly impair the decision-making speed of the prefrontal cortex.
- Implementation Intentions (If-Then Planning): Pre-program your responses to common distractions. (For example: "If my phone rings while I am writing, then I will ignore it until my break"). This converts a high-effort decision into a low-effort reflex.
- The "10/10/10 Perspective": Before agonizing over a choice, ask: "Will this matter in 10 minutes? 10 months? 10 years?" If the answer is "No" to the latter two, spend no more than two minutes making the decision.
- No-Decision "Deep Recovery" Periods: Set aside at least one day a week (e.g., "Offline Sunday") where you make zero professional or scheduled commitments. This allows the brain to fully clear metabolic waste and prevents chronic, long-term decision burnout.
- Limit "Comparison Shopping": When buying items under \$100, limit your research to a maximum of two websites or five minutes. The time and mental energy saved are usually worth more than the \$5 or \$10

difference you might find through exhaustive searching.

The study ultimately concludes that by treating decision-making capacity as a finite, high-value currency and investing it only in the most impactful opportunities, individuals can preserve their high-level executive function and prevent the late-day decision avoidance and burnout that stalls professional and personal growth.

## VI. SUGGESTIONS AND RECOMMENDATIONS

In 2025, cognitive scientists have identified decision fatigue not merely as a psychological burden but as a measurable biological phenomenon where the brain's prefrontal cortex experiences metabolic exhaustion, leading to a significant decline in the quality of judgment as the day progresses. To combat this effectively, one must move beyond simple organization and adopt a comprehensive system of radical automation, choice architecture, and biological synchronization. The cornerstone of this approach is the "pre-decision" strategy: by standardizing every mundane aspect of your life—ranging from a "personal uniform" or capsule wardrobe to a recurring bi-weekly meal rotation—you eliminate the thousands of micro-choices that silently drain your willpower before you even reach your desk. This preservation of mental "fuel" is further enhanced by establishing rigid personal policies, such as "no-meeting Wednesdays" or specific windows for digital communication, which transform active choices into passive habits. By utilizing the Eisenhower Matrix to aggressively filter out non-essential tasks and embracing the "satisficing" principle—aiming for the first option that meets a "good enough" threshold rather than searching for an elusive perfection—you prevent the paralyzing effects of analysis paralysis. Furthermore, you must respect your brain's circadian rhythms by scheduling high-stakes, complex strategic decisions during your peak cognitive window (typically two to four hours after waking) and deferring administrative trivia to the late afternoon when willpower is naturally lower. It is equally vital to manage your physiological state, as research confirms that hunger and sleep deprivation amplify "simplistic thinking," causing the brain to favour immediate, low-effort rewards over long-term success. To reset these cognitive reserves mid-day, incorporate "decision-free" zones—short, screen-free intervals or mindful walks that allow the brain to flush out metabolic byproducts like glutamate.

By treating your decision-making capacity as a finite, high.

#### ➤ *Comprehensive Actionable Strategies for Peak Cognitive Performance*

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## VII. CONCLUSION

The comprehensive research study titled "A Research on Decision Fatigue among Teenagers" provides an exhaustive examination of how the sheer volume of daily choices impacts the developing adolescent brain, delivering a profound conclusion regarding the prevalence, underlying causes, and severe consequences of decision fatigue within the studied population (specifically those aged 11-13 at KRM Public School)

Teenagers are uniquely susceptible to decision fatigue because their brains, particularly the prefrontal cortex—often described as the brain's "CEO" responsible for judgment, self-control, and long-term planning—are still in the process of maturation. Unlike adults, adolescents have not yet fully developed the neural capacity required to consistently regulate impulses, weigh consequences, and manage complex or repeated decision-making demands. In today's fast-paced environment, teens are exposed to an overwhelming number of daily choices across digital, social, and academic domains, ranging from social media interactions and peer expectations to academic responsibilities and lifestyle decisions. This constant demand for choices rapidly depletes their limited mental energy and willpower, making them more vulnerable to cognitive overload. As decision fatigue sets in, teenagers increasingly rely on emotions and mental shortcuts, or heuristics, rather than deliberate reasoning, which often results in impulsive actions, procrastination, and defaulting to familiar but suboptimal behaviors. The findings of the study confirm the problem statement by demonstrating a clear deterioration in decision quality following prolonged decision-making sessions, with multiple negative outcomes emerging across behavioral, cognitive, health, and ethical domains. Behaviorally, decision fatigue manifests as avoidance of decisions, increased procrastination, reduced persistence on challenging tasks, and heightened impulsivity. Teens become more susceptible to peer pressure and are more likely to prioritize immediate gratification over long-term goals, increasing the risk of harmful short-term choices. From a health perspective, mental exhaustion contributes to disrupted sleep patterns, emotional instability, irritability, apathy, and disengagement, all of which further impair self-regulation. Poor physical health habits, such as irregular sleep schedules and increased consumption of junk food, also become more common as fatigued teens opt for convenience over healthier alternatives. Cognitively, decision fatigue undermines concentration, focus, creativity, and problem-solving abilities, leading to decreased academic performance and difficulty with long-term planning and task prioritization. As mental resources decline, judgment becomes impaired, increasing the likelihood of errors and inconsistent decision-making. At the level of decision quality, teens experiencing

decision fatigue engage in irrational trade-offs, experience heightened decisional conflict and regret, and may even display ethical lapses when self-control is compromised. Collectively, these findings emphasize that decision fatigue is not a minor inconvenience but a significant developmental and psychological challenge for adolescents. The cumulative impact of repeated decision-making demands, combined with ongoing brain development, places teenagers at a distinct disadvantage, reinforcing the need for structured environments, supportive guidance, and intentional strategies to reduce unnecessary cognitive load and protect their overall well-being.

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