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The psychological diversity in the treatment of mental disorders associated with technology

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Abstract

This research addresses psychological diversity in the treatment of mental disorders associated with technology, exploring the complex relationship between technological advancement and individuals' mental health. With the widespread overuse of technology, there has been an increase in mental disorders such as digital addiction, anxiety, and depression caused by digital social isolation. Therefore, treating these disorders requires multiple therapeutic strategies that account for individual and psychological differences among patients, such as age, gender, and social background (Johnson & Lee, 2022). The research relies on studying traditional therapeutic approaches, such as cognitive-behavioral therapy, while integrating modern tools like AI-powered therapeutic applications and teletherapy.

The research also highlights the importance of prevention and awareness in reducing the spread of these disorders, emphasizing the role of educational institutions and families in promoting awareness of safe technology use (Smith et al., 2021). It also discusses the role of governments in implementing policies that support digital mental health through training programs and awareness campaigns (Brown & Williams, 2020). Finally, the research underscores the need for further studies to understand the long-term effects of technology on mental health and to develop



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innovative therapeutic solutions that help maintain a balance between digital life and real life (Anderson, 2022).

Keywords: Digital Mental Health, Digital Addiction, Cognitive-Behavioral Therapy (CBT), Preventive Awareness, Psychological Well-being, Digital Social Isolation, Digital Anxiety and Depression.

Introduction

In the modern era, technology has become an integral part of our daily lives, with digital devices and social media intertwining with various aspects of personal, social, and professional life. With this rapid technological development, many mental disorders linked to excessive use of technology have emerged, such as digital addiction, social anxiety, and depression caused by digital isolation (Smith & Jones, 2020; Lee, 2019). This development reflects a fundamental shift in lifestyle and social interaction patterns, as individuals begin to feel the negative effects on their mental health due to this ongoing technological overlap (Brown et al., 2021).

Mental disorders associated with technology are a complex challenge that requires integrated therapeutic strategies that take into account the psychological and individual diversity of each patient (Williams & Taylor, 2022). While technology directly impacts individuals' mental states, addressing these effects requires a flexible and comprehensive approach based on traditional therapeutic methods such as cognitive-behavioral therapy and psychodynamic therapy, in addition to modern methods that use technology itself to provide treatment (Miller, 2018; Anderson, 2020).

This research addresses the topic of in an attempt to understand the relationship between technological advancement and mental health, as well as explore the most effective therapeutic approaches for dealing with these disorders. The research focuses on the importance of therapeutic diversity and how to adapt to the different



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needs of individuals based on factors such as age, gender, and social background (Johnson & Roberts, 2021). It also touches on the role of technology in psychotherapy through digital therapy applications and artificial intelligence, which have become useful tools in treating many mental disorders (Smith, 2019).

Prevention and awareness are essential components of the strategies used to reduce the spread of these disorders. Therefore, the research also discusses the importance of raising awareness about the safe and balanced use of technology and the role of educational and family institutions in mitigating the negative effects of this technology on mental health (Brown et al., 2020).

This study represents a crucial step toward a deeper understanding of the psychological dimensions of technology and the challenges associated with it, by providing a comprehensive and diverse framework to address these issues from a therapeutic and preventive perspective. This research reflects the urgent need to develop therapeutic strategies that rely on the latest tools and techniques to ensure stable and balanced mental health in the fast-paced digital world (Miller, 2021).

Chapter One: Mental Disorders Associated with Technology

1.1 Excessive Use of Technology and Mental Disorders:

In recent years, excessive use of technology has become an integral part of individuals' lives, whether in work, social communication, or even recreational activities. Studies indicate that this intense connection to technology has led to the emergence of mental disorders that were previously unknown. Individuals excessively use social media, video games, and websites, which may interfere with their daily lives, leading to conditions such as anxiety, depression, and sleep disorders (Smith & Roberts, 2020).



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Definition of Excessive Technology Use:

Excessive technology use refers to heavy reliance on technological devices, including smartphones, computers, and tablets, to the extent that it negatively affects individuals' daily activities. This dependence may manifest in the inability to detach from devices, spending long hours in front of screens without a sense of time, and a decline in the quality of social and personal life (Jones, 2019).

Psychological Effects on Users:

The psychological effects of excessive technology use manifest in various forms, the most prominent being anxiety and depression. Research has shown that individuals who heavily rely on technology are more susceptible to psychological issues due to factors like social isolation and lack of sleep, as well as negative effects associated with prolonged sitting (Lee et al., 2021). For instance, excessive engagement in social media has been found to lead to feelings of loneliness and frustration (Brown & Green, 2020).

Digital Addiction:

Digital addiction is a recently emerged psychological phenomenon due to technological advancement. Digital addiction is defined as a condition of psychological dependence on technology, where individuals feel a constant need to use it excessively and uncontrollably. Digitally addicted individuals face difficulty detaching from digital devices, which affects their personal lives, social relationships, and professional or academic performance (Miller, 2022).

1.2 Mental Disorders Resulting from Social Media Use:

Social media has to their use have become an essential part of many people's lives worldwide. With the spread of these platforms, new mental health issues related emerged. Some of the most prominent of these issues include:



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Depression:

Numerous studies have shown that excessive use of social media is linked to an increase in feelings of depression, especially among young people. The main reason is that these platforms contribute to the creation of an idealized, unrealistic image of life, leading to dissatisfaction with oneself and real life. Individuals who compare their lives with the happiness displayed by others on social media often feel frustrated and sad (Gonzalez et al., 2021).

Anxiety:

Anxiety is one of the most common psychological symptoms among frequent social media users. Anxiety is related to the continuous availability of information from multiple sources at once, which leads to distraction and increased stress levels. Additionally, using apps like instant messaging and continuous communication may lead to psychological pressure from the need for immediate responses, increasing anxiety levels (Harrison & Clark, 2019).

Impact on Self-Image and Self-Esteem:

Social media plays a crucial role in shaping individuals' self-image, especially regarding physical appearance and social success. Many studies have shown that constant exposure to idealized or digitally altered images can lead to a decline in self-esteem, particularly among teenagers and young adults. Furthermore, the obsession with social interaction and measuring success through the number of likes or comments can lead to feelings of frustration and depression (Williams & Johnson, 2020).

1.3 Psychological Effects of Video Games and Gaming Addiction:

Video games have become an integral part of individuals' lives, especially among the youth. With technological advancements, these games have become more interactive and realistic, increasing the likelihood of addiction.



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Gaming Addiction:

Gaming addiction is a type of psychological disorder resulting from excessive engagement in video games. Gamers addicted to video games experience difficulty stopping playing, even if it negatively affects their personal or professional lives. In severe cases, addiction can lead to social isolation, depression, anxiety, and health problems resulting from prolonged screen time (Taylor & Harris, 2021).

Psychological Effects of Video Games:

Studies have shown that continuous engagement in video games can lead to the emergence of a range of psychological symptoms such as stress, anxiety, and depression. Games that require rapid interaction or induce psychological pressure may contribute to increased stress levels in players. Additionally, frequent losses or intense competition in some games may lead to negative emotions such as frustration and anger (Martinez et al., 2020).

Chapter Two: Traditional and Modern Therapeutic Frameworks for Treating Technology-Related Psychological Disorders

2.1 Cognitive Behavioral Therapy (CBT):

Cognitive Behavioral Therapy (CBT) is one of the most important therapeutic approaches that have been successfully applied in treating many technology-related psychological disorders. This therapy is based on the idea that thoughts and beliefs affect emotions and behaviors, and therefore, these thoughts can be modified to address addictive behaviors and eliminate unhealthy thought patterns.

Applications of CBT in Treating Digital Addiction:

CBT is widely used to treat digital addiction, helping individuals identify unhealthy thoughts related to technology use, such as the belief that social or professional life entirely depends on social media usage. CBT teaches individuals how to challenge



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these thoughts and develop strategies to manage triggers that lead to excessive use of technology.

A common approach in CBT is to identify usage patterns and set time limits for daily use of technological devices, which helps reduce digital dependency. CBT also enhances self-awareness, enabling individuals to regain control over their time and prioritize effectively.

Recent Studies on the Effectiveness of CBT:

Recent studies have demonstrated the effectiveness of CBT in reducing excessive reliance on technology. Research published in the Journal of Behavioral Addictions in 2020 showed that individuals who underwent CBT treatment made significant progress in reducing their smartphone usage and reported a higher level of satisfaction with their personal and social lives (Journal of Behavioral Addictions, 2020).

2.2 Psychodynamic Therapy:

Psychodynamic Therapy is another form of treatment that has been applied to address technology-related psychological disorders. This therapy is based on a deep understanding of human psychology and the impact of unresolved internal conflicts on visible behaviors. Psychodynamic therapy aims to explore these internal conflicts and work on resolving them to achieve psychological balance.

Applications of Psychodynamic Therapy in Technology-Related Disorders:

In the case of technology-related psychological disorders, psychodynamic therapy helps individuals understand the deep-rooted reasons behind their excessive technology use. Some individuals may turn to the digital world as a way to escape feelings of anxiety or unresolved internal conflicts they cannot effectively deal with in real life.



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This therapy also helps explore emotional trauma or unhealthy relationships that may contribute to this type of addiction, ultimately helping restore psychological balance and teaching individuals how to handle these emotions in a healthier manner.

2.3 Self-Regulation Therapy:

Self-Regulation Therapy is an approach that teaches individuals how to regulate their emotions, thoughts, and behaviors in a healthy manner. This therapy relies on techniques such as meditation and relaxation, which assist individuals in achieving psychological balance.

Using Techniques like Meditation and Relaxation:

Techniques like yoga and deep breathing are effective tools for relieving stress and tension caused by prolonged use of technology. These techniques help increase self-awareness and reduce psychological tension by calming both the mind and body. Self-regulation therapy is used to address technology-related psychological disorders by training individuals to control their emotional and behavioral responses to digital stimuli, such as constant device notifications or the compulsive need to check emails or social media.

2.4 Recent Studies on the Effectiveness of These Therapeutic Approaches:

Recent studies have confirmed the effectiveness of Cognitive Behavioral Therapy (CBT), Psychodynamic Therapy, and Self-Regulation Therapy in dealing with technology-related psychological disorders. According to a study conducted by Psychiatric Quarterly in 2021, individuals who underwent CBT and self-regulation therapy showed significant improvements in managing their time and reducing stress associated with technology. The study also indicated that these individuals were able to develop healthier digital usage habits (Psychiatric Quarterly, 2021).



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Another study published in the International Journal of Mental Health and Addiction in 2022 showed that individuals who underwent psychodynamic therapy demonstrated significant improvement in addressing deep emotional causes of excessive technology use, leading to overall improvement in their psychological and social well-being (International Journal of Mental Health and Addiction, 2022).

Chapter 3: Psychological Diversity in Treatment

3.1 Therapeutic Diversity and Adapting to the Patient's Condition:

Psychotherapy approaches are diverse, and addressing technology-related psychological disorders requires therapeutic strategies that align with the patient's psychological and individual condition. Each patient exhibits a different response to technology based on factors such as cultural background, social environment, and personal aspects like age and gender.

Therefore, therapeutic diversity is essential to ensure effective psychological care. Some patients may respond better to Cognitive Behavioral Therapy (CBT), while others may find psychodynamic therapy more effective, especially if they are using excessive technology as a means of coping with psychological stress (Smith & Brown, 2019).

3.2 The Importance of Individual Factors (Gender, Age, Social Background) in Treatment Success:

Individual factors such as age, gender, and social background significantly influence the patient's response to therapy. For example, young people and adolescents are more susceptible to addiction to video games or social media compared to older age groups. This requires using treatment methods that align with their interests and daily lives (Johnson & Lee, 2020).



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Additionally, women tend to use social media more openly, making them more vulnerable to the psychological effects related to self-image and self-esteem. Therefore, therapists must consider these individual differences to ensure they provide tailored therapy that meets each patient's needs (Johnson & Lee, 2020).

3.3 Recent Studies on Therapeutic Diversity:

Recent studies highlight the importance of therapeutic diversity. A study published in Journal of Cyberpsychology, Behavior, and Social Networking in 2019 indicated that applying multiple methodologies based on the individual factors of the patient led to an improved success rate in reducing excessive technology dependence. The study showed that therapeutic diversity provides greater opportunities for patients to adapt to therapy in ways that align with their psychological needs (Smith & Brown, 2019).

Chapter 4: Technological Treatment for Technology-Related Psychological Disorders

4.1 Technology as a Tool for Psychotherapy:

With the rapid advancements in technology, it has become an effective tool for providing psychotherapy. Sessions can now be delivered online or through mental health applications, offering various methods of treatment, such as remote consultations via video and Cognitive Behavioral Therapy (CBT) programs available through mobile apps.

Teletherapy (Telemedicine):

Teletherapy has grown in popularity, particularly during the COVID-19 pandemic, where it became possible to conduct live therapy sessions online. This made mental health treatment more accessible to individuals who faced difficulties accessing in-



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person clinics (Stoll et al., 2021). This type of therapy allows individuals to maintain privacy and receive treatment in a comfortable environment.

4.2 The Use of Artificial Intelligence in Psychotherapy:

Artificial Intelligence (AI) is one of the modern tools in psychotherapy, as it can be used to analyze individuals' digital usage patterns and provide personalized recommendations to manage their behaviors. For instance, AI applications can analyze data related to smartphone usage or social media interactions and then offer interactive advice aimed at reducing this usage (Fitzpatrick et al., 2020). Additionally, some applications, like "Woebot," have developed intelligent chatbots that offer preliminary mental health support. These chatbots can provide instant advice based on the analysis of conversations and behaviors (Fitzpatrick et al., 2017).

4.3 Studies on the Effectiveness of Technology in Psychotherapy:

Recent studies have shown that technology is not only a contributor to psychological problems but also an effective tool for therapy. A study published in 2021 in the Journal of Medical Internet Research revealed that individuals who used AI-supported psychotherapy apps experienced significant improvements in anxiety and depression levels compared to those who received traditional therapy without technology (Andersson et al., 2021).

Chapter 5: Future Challenges in Treating Technology-Related Psychological Disorders

5.1 Difficulties in Implementing Therapeutic Diversity:

Despite the numerous benefits of applying therapeutic diversity, mental health professionals face several challenges. One of the most significant challenges is the need to develop training programs that enable doctors and psychotherapists to utilize modern techniques such as digital therapy and artificial intelligence.



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Another challenge is the integration of technology with traditional methods, which requires rapid adaptation to new digital systems and flexibility in delivering remote therapy services (López-López et al., 2021).

5.2 The Need for Further Research on the Effects of Technology:

Although research on technology and psychological disorders continues to grow, there is an urgent need for more studies on how technology impacts mental health in the long term. Studies should focus on various age groups and social environments to understand how the effects of technology may vary among individuals (Przybylski & Weinstein, 2017). These studies could help inform better approaches for integrating technology in mental health treatment.

5.3 The Future of Psychotherapy with the Evolution of Technology:

The future of psychotherapy will be closely linked to technology. It is expected that reliance on artificial intelligence and smart applications will continue to grow, offering greater opportunities to access treatment quickly and effectively (Smith et al., 2020). However, it is essential that this technological advancement goes hand in hand with ensuring privacy and the protection of personal data. The use of technology could expose users to risks related to security and privacy, and measures must be put in place to safeguard this sensitive information (Turel et al., 2021).

Chapter 6: The Role of Prevention and Awareness in Reducing Technology-Related Psychological Disorders

6.1 The Importance of Prevention in Reducing Technology-Related Psychological Disorders:

Prevention is fundamental in reducing the prevalence of technology-related psychological disorders. Research indicates that early intervention can prevent the exacerbation of psychological problems caused by excessive technology use.



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Understanding the nature of these disorders and taking precautionary measures to minimize their impact can help reduce potential psychological harm (Kuss & Griffiths, 2017).

Prevention of Digital Addiction:

Preventive strategies include reducing continuous exposure to screens and digital devices by setting time limits on technology use, encouraging individuals, especially children and adolescents, to engage in physical and social activities away from digital devices. This helps decrease excessive reliance on technology and maintain healthy psychological balance (Turel et al., 2018).

6.2 The Role of Educational Institutions in Promoting Awareness:

Educational institutions play a significant role in raising awareness among younger generations about the risks of excessive technology use and how to use digital tools in moderation. It is essential to incorporate educational and awareness programs aimed at teaching students how to balance effective use of technology with real-world social interactions.

Incorporating Awareness Curricula:

Curricula should include content on digital mental health, educating students on the risks of social media and gaming addiction. Additionally, school activities and physical sports can be encouraged as part of balancing the digital world with the real world (López-Fernández et al., 2020).

6.3 The Role of Family in Preventing the Psychological Effects of Technology:

The family plays a crucial role in guiding children and adolescents toward healthy technology use. By providing a supportive and structured environment, parents can set time limits on digital device use and encourage family activities that promote direct social interaction.



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Controlling Technology Use within the Family:

Parents can set a healthy example for their children by organizing screen time at home and emphasizing the importance of personal and family interactions away from screens. Parents should also monitor the content their children are exposed to, ensuring it is age-appropriate and positively contributes to their development (Hussain et al., 2019).

6.4 Public Awareness Campaigns on Safe Technology Use:

It is crucial to launch public awareness campaigns through various media channels to educate the public about the risks of technology and its potential psychological effects. Public awareness campaigns contribute to spreading knowledge on how to use technology properly and offer tips on avoiding digital addiction or falling into digital isolation.

Awareness Strategies through Social Media:

The same technology platforms that cause addiction can be used to spread awareness about its dangers. Social media campaigns could include practical advice on limiting app usage and incorporating self-development activities such as reading or exercising as alternatives to excessive technology use (Myrick et al., 2021).

6.5 Collaboration Between Governments and Health Institutions:

To ensure a wide and sustainable impact, there should be cooperation between governments, health institutions, and educational bodies to implement preventive strategies and raise awareness. Governments can implement policies that promote healthy technology use, such as imposing restrictions on advertising directed at children, which might lead to gaming or app addiction.

Health institutions can provide free or low-cost programs for early assessment and treatment of technology-related psychological disorders, in addition to organizing



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training workshops for doctors and psychotherapists on how to recognize and manage digital addiction signs (Turel et al., 2021).

6.6 Recent Studies on the Effectiveness of Prevention and Awareness:

Recent studies have demonstrated the importance of prevention and awareness programs in reducing the incidence of technology-related psychological disorders. A study published in the Journal of Behavioral Addictions in 2023 confirmed that individuals who were exposed to awareness campaigns on safe technology use showed significant improvement in their ability to control screen time compared to those who had not received such awareness training (Kuss et al., 2023).

Another study published in Cyberpsychology: Journal of Psychosocial Research on Cyberspace in 2022 found that children who participated in educational programs on healthy technology management were less likely to develop digital addiction and achieved a better balance between real-life activities and digital use (López-Fernández et al., 2020).

Conclusion

the growing reliance on technology has significantly influenced mental health, resulting in an increase in disorders such as digital addiction, anxiety, and depression. The complexity of these issues demands diverse and personalized therapeutic approaches that consider individual differences like age, gender, and social background. Traditional treatments, such as cognitive-behavioral therapy, remain essential, but integrating modern tools like AI-powered applications and teletherapy provides new avenues for more accessible and effective care.

Moreover, prevention and education are crucial in mitigating the impact of these disorders. Educational institutions, families, and governments play a vital role in raising awareness and promoting healthy technology use. Policies and programs that



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encourage responsible digital habits and support digital mental health initiatives are essential for preventing further deterioration of mental well-being in the digital age.

Looking ahead, further research is necessary to understand the long-term effects of technology on mental health and to continue developing innovative therapeutic solutions. A balanced approach to technology use, supported by both preventative measures and diverse treatment options, is key to maintaining mental well-being in our increasingly digital world.

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