

**مداخلة المشاركة في الملتقى الدولي الموسوم : الطفل العربي و تحديات الميديا الرقمية -
الواقع الفرص و التحديات**

- بيانات المشارك الأول:

الاسم : أمال

اللقب : فضلون

الرتبة العلمية: استاذ مجاضر – أ-

الجامعة: أم البواقي

الايمايل المهني: fadhloune.amel@univ-oeb.dz

رقم الهاتف: 0795348752

- بيانات المشارك الثاني

الاسم : منى

اللقب : فضلون

الرتبة العلمية: دكتوراه علم النفس الصحة و مختص أرطوفوني في الصحة العمومية بالمؤسسة
العمومية للصحة الجوارية – العربي بن مهدي - قسنطينة

الجامعة: قسنطينة 2 – عبد الحميد مهري

الايمايل المهني: mouna.fadhloune@univ-constantine2.dz

رقم الهاتف: 0698946958

محور المشاركة: المحور الاول

**Game On: Exploring the Global Evidence of Video Games' benefits and
drawbacks on the Psycho-Social Development of children**

انطلقت اللعبة: استكشاف الأدلة العالمية لفوائد و أضرار ألعاب الفيديو على التنمية النفسية
والاجتماعية للأطفال

Abstract:

This research paper explores the dual nature of video gaming's impact on young people's psycho-social development, synthesizing findings from global studies to provide a

comprehensive understanding of both its positive and negative effects. Video games, while often criticized for contributing to addiction, social isolation, and aggression, have also been found to enhance cognitive skills, foster social connections, and serve as tools for mental health interventions. Drawing on recent studies from various countries and contexts, this paper investigates how video gaming influences emotional regulation, social behaviors, academic performance, and overall well-being among children and adolescents. The study will critically assess the mechanisms by which video games shape self-identity, peer relationships, and mental health, with an emphasis on the varying outcomes depending on game content, usage patterns, and individual characteristics. The paper concludes with recommendations for parents, educators, and policymakers on managing video game use in a way that maximizes benefits while minimizing potential risks to young people's social and psychological development.

Keywords: Global Evidence; Video Games, benefits, drawbacks, Psycho-Social Development, children.

المخلص: تستعرض هذه الورقة البحثية الطبيعة الثنائية لتأثير ألعاب الفيديو على التنمية النفسية والاجتماعية للأطفال، من خلال دمج النتائج المستخلصة من الدراسات العالمية لتقديم فهم شامل لكلا التأثيرات الإيجابية والسلبية؛ على الرغم من الانتقادات التي توجه إليها بسبب مساهمتها في الإدمان والعزلة الاجتماعية والعنف، فإن ألعاب الفيديو أظهرت في المقابل قدرتها على تعزيز المهارات الإدراكية، وتعزيز الروابط الاجتماعية، واستخدامها كأدوات للتدخلات النفسية. بالاستناد إلى دراسات حديثة من دول وسياقات متعددة، تبحث هذه الورقة في كيفية تأثير ألعاب الفيديو على تنظيم العواطف، والسلوكيات الاجتماعية، والأداء الأكاديمي، والرفاهية العامة للأطفال والمراهقين من خلال تقييم نقدي للآليات التي من خلالها تشكل ألعاب الفيديو الهوية الذاتية، والعلاقات بين الأقران، والصحة النفسية، مع التركيز على النتائج المتفاوتة التي تعتمد على محتوى اللعبة، وأنماط الاستخدام، والخصائص الفردية، وتختتم الورقة بتوصيات للآباء والمعلمين وصناع السياسات حول كيفية إدارة استخدام ألعاب الفيديو بطريقة تعزز الفوائد مع تقليل المخاطر المحتملة على التنمية الاجتماعية والنفسية للأطفال.

الكلمات المفتاحية: الأدلة العالمية، فوائد، أضرار، ألعاب الفيديو، التنمية النفسية والاجتماعية، الاطفال.

Introduction

Video games have become a dominant form of entertainment and social interaction among children and adolescents worldwide. As their popularity grows, so too does public concern regarding their potential negative consequences, including addiction, social isolation, aggression, and academic decline (Rodríguez Rodríguez & García Padilla, 2021; Lager & Corso, 2025). Simultaneously, a substantial body of research highlights the positive impacts of video gaming, such as improved cognitive skills, enhanced social connectedness, and innovative avenues for mental health interventions (Erhel & Gonthier, 2024; UNICEF Innocenti, 2024).

This duality reflects the complex and multifaceted nature of video gaming's role in youth development, warranting a comprehensive, integrative examination of both beneficial and detrimental outcomes. This paper synthesizes global empirical evidence to elucidate how video gaming influences emotional regulation, social behavior, academic performance, and overall well-being among children and adolescents. Importantly, it explores how these outcomes vary by game content, usage patterns, social context, and individual differences including neurodiversity and psychological vulnerability.

Understanding these dynamics is critical for parents, educators, clinicians, and policymakers seeking to balance the advantages of digital play with the imperative to mitigate associated risks. Through this synthesis, we propose recommendations for managing video game use to support healthy psycho-social development.

Why This Study Is Needed ?

- Integrated evidence reveals that video games wield powerful but complex influence on children's and adolescents' psycho-social development, with simultaneously observed cognitive, social, emotional benefits and significant risks like **addiction, mental health problems, and social impairments**.
- Past research often isolates positive or negative effects; there is a critical need to explore **“interactions, mediators (e.g., executive function), moderators (e.g., social context, game type, gender, neurodiversity), and developmental trajectories”**.
- Vulnerable groups (e.g., adolescents with ASD, depression, ADHD) **show differential patterns** that warrant tailored investigation (Davis et al., 2023; Bellevergue, 2021).
- The societal and policy landscape increasingly demands **“nuanced, evidence-based understanding”** to inform parents, educators, clinicians, and industry stakeholders.

1. Objectives

- Investigate the “dual effects of video game exposure on psycho-social outcomes” in children (7-12 years) and adolescents (13-18 years).
- Examine how “game type (violent, cooperative, competitive, active), play patterns (frequency, duration), and social context” influence outcomes.

- Analyze the role of “executive function and psychological vulnerabilities” (e.g., depression, ADHD) as mediators.
- Assess the influence of “family, peer, and cultural factors” as moderators.
- Include neurodiverse populations to identify distinct effects and needs.

2. Hypotheses:

Based on the reviewed literature, the study hypothesizes:

H1: Excessive video game use and addictive behaviors are associated with increased internalizing symptoms, social impairments, and academic difficulties among children and adolescents.

H2: Moderate, socially interactive video gaming is positively correlated with enhanced cognitive functions, emotional regulation, and social skills.

H3: Executive function mediates the relationship between video game engagement and social development outcomes.

H4: Psychological vulnerabilities (e.g., depression, ADHD) and neurodevelopmental status moderate the effects of video gaming on psycho-social outcomes.

H5: Social context variables, including parental mediation, peer interactions, and game content, moderate the positive and negative impacts of video gaming.

3. Methodology:

This study focuses on reviewing and synthesizing the various methodologies employed in the existing literature to achieve meaningful results. Upon examining these studies, it is evident that multiple approaches were utilized to extract adequate and reliable findings, including:

- A mixed-methods longitudinal design that integrates surveys, cognitive testing, physiological measures, and qualitative interviews.
- Inclusion of representative samples and subgroups, such as neurodiverse populations.
- Use of validated instruments to assess addiction (e.g., GAIT, IGDS9-SF), executive function, mental health (e.g., CBCL, SRS-2), social skills, and academic outcomes.
- Evaluation of gaming content and social context through digital logs and self- or parent-reported data.

4. Significance:

- Will provide an “integrated model” of gaming’s psycho-social impact, identifying risk and protective factors.
- Inform “tailored interventions” for at-risk youth and guidance on healthy gaming.
- Contribute to “public health policies” promoting responsible innovation in digital play (UNICEF RITEC).

- Support clinical understanding of gaming's role in adolescent development, especially in mental health contexts (Bellevergue, 2021).

1. Video Game Addiction and Problematic Use

Excessive video game use has increasingly been recognized as a significant addiction affecting children and adolescents, marking it as an emerging public health concern. Video game addiction, characterized by an uncontrollable urge to play video games despite negative consequences, can severely disrupt normal functioning. This form of behavioral addiction is particularly concerning among youth, as it occurs during critical periods of psycho-social development, potentially leading to long-lasting impairments in emotional regulation, social interactions, and mental health.

Rodríguez Rodríguez and García Padilla (2021) provide a detailed epidemiological and public health overview, confirming that video game addiction is a growing issue worldwide with prevalence rates ranging from 1.3% to 33%, predominantly affecting male adolescents. This addiction is strongly correlated with psychological distress, impulsivity, and poor emotional regulation, and is often accompanied by comorbidities such as Attention Deficit Hyperactivity Disorder (ADHD) and Autism Spectrum Disorder (ASD). Despite the recognized impact, prevention and treatment strategies remain limited, highlighting the urgent need for standardized assessment tools and the development of nursing-led interventions to effectively address this issue.

Moreover, media representations tend to place the responsibility primarily on parents, while broader public health policies remain insufficiently developed (Arnoult, 2020). When considered alongside earlier research documenting addiction symptoms and associated mental health risks (Lager & Corso, 2025; Digital Game Addiction, 2023; Gozme & Uraccagua, 2019), video game addiction clearly emerges as a serious psycho-social challenge. Its impact is especially profound in vulnerable youth, underscoring the necessity for comprehensive public health responses to mitigate its long-term consequences.

Major findings include:

- Global prevalence of video game addiction varies widely (1.3%–33%), predominantly in male adolescents.
- Strong associations exist between addiction and psychological distress, impulsivity, emotional dysregulation, and comorbid ADHD and ASD.
- Current prevention and treatment approaches are limited, calling for standardized assessment and nursing-led interventions.
- Media framing focuses on parental responsibility, while public health policies remain underdeveloped.

- Video game addiction poses significant psycho-social risks, particularly for vulnerable youth populations.

Problem Area	Details/Impacts	Proposed Solutions
Addiction Characteristics	Uncontrollable urge, impaired functioning	Awareness, screening
Epidemiology	1.3%-33% prevalence, mostly males	Research, targeted interventions
Psychological Comorbidities	ADHD, ASD, distress	Integrated mental health support
Treatment Gaps	Limited strategies and tools	Standardized assessments, nursing-led interventions
Societal & Policy Issues	Media blame, insufficient policies	Policy development, public health initiatives

Table 01 : Problem-Solution Table of video games addiction

2. Cognitive and Psycho-social Benefits

Cognition refers to the mental processes involved in acquiring knowledge and understanding, including attention, memory, problem-solving, and decision-making. Video games, when played in moderation and within supportive contexts, have been increasingly recognized for their potential to enhance these cognitive functions as well as promote important psycho-social benefits. Rather than merely being a source of concern, video gaming can offer opportunities for social bonding, identity exploration, emotional regulation, and overall mental well-being—especially when the gaming environment encourages positive interactions and responsible design.

Erhel and Gonthier (2024) challenge alarmist perspectives by emphasizing that moderate gaming is associated with slight cognitive improvements, particularly in processing speed and attention, alongside enhanced mental well-being. Their findings indicate that only a small minority (around 2%) of gamers experience problematic gaming behaviors linked to underlying vulnerabilities. Supporting this, the UNICEF Innocenti RITEC report (2024) outlines how responsibly designed digital play fosters autonomy, competence, creativity, emotional regulation, and social connection, all critical to child and adolescent development.

Social aspects of gaming are also significant. According to the Pew Research Center (Gottfried & Sidoti, 2024), 72% of teenagers play video games primarily to socialize, and over half report gaining skills and friendships from their gaming experiences. Parental attitudes towards gaming are increasingly positive, reflecting growing recognition of its social and developmental value. This aligns with research by Solanki (2024), Wan et al. (2020), and Coavoux et al. (2016), which underscores the cognitive, social, and identity-related functions of video games.

More specifically, several studies demonstrate that moderate video gaming supports cognitive enhancement, including improvements in attention, working memory, visuospatial skills, and executive function (Chaarani et al., 2022; Wan et al., 2020; Erhel & Gonthier, 2024). Video games present interactive challenges that stimulate problem-solving, strategic thinking, and rapid decision-making abilities (Gottfried & Sidoti, 2024; Solanki, 2024).

From a psycho-social perspective, video games serve as virtual spaces for peer interaction, friendship maintenance, and identity exploration (Coavoux et al., 2016; Ter Minassian et al., 2022). The UNICEF Innocenti RITEC report (2024) introduces the RITEC-8 well-being framework, which highlights how video games support eight key areas including autonomy, competence, emotional regulation, creativity, and social belonging. Online multiplayer games, in particular, facilitate synchronous communication and collaborative play, which contribute positively to adolescents' social skills and emotional resilience (Gottfried & Sidoti, 2024; Wan et al., 2020).

Major Findings on Cognitive and Psycho-social Benefits of Video Games:

- Moderate video gaming is linked to slight cognitive benefits, such as improved processing speed and attention, and enhanced mental well-being; only about 2% of gamers exhibit problematic behaviors related to vulnerabilities (Erhel & Gonthier, 2024).
- Positive effects include social bonding, identity exploration, and emotional regulation, especially when gaming occurs in socially supportive environments.
- The UNICEF Innocenti RITEC report (2024) highlights that responsibly designed digital play supports autonomy, competence, creativity, emotional regulation, and social connection.
- According to Pew Research Center (Gottfried & Sidoti, 2024), 72% of teens play video games to socialize, and over half report benefits related to skill development and friendships; parental support for gaming is increasingly positive.
- Research by Solanki (2024), Wan et al. (2020), and Coavoux et al. (2016) supports the cognitive, social, and identity benefits of video games.
- Studies indicate moderate gaming enhances cognitive functions including attention, working memory, visuospatial skills, and executive function through interactive problem-solving and strategic challenges (Chaarani et al., 2022; Wan et al., 2020; Erhel & Gonthier, 2024; Gottfried & Sidoti, 2024; Solanki, 2024).
- Video games provide virtual spaces for peer interaction, friendship maintenance, and identity exploration (Coavoux et al., 2016; Ter Minassian et al., 2022).
- The UNICEF Innocenti RITEC report (2024) introduces the RITEC-8 framework illustrating how games foster well-being aspects like autonomy, competence, emotional regulation, creativity, and social belonging.
- Online multiplayer games promote synchronous communication and collaborative play, enhancing adolescents' social skills and emotional resilience (Gottfried & Sidoti, 2024; Wan et al., 2020).

3. Negative Psycho-social and Physical Impacts

Excessive or problematic video gaming has been associated with a range of negative psycho-social and physical outcomes. Psycho-socially, this includes internalizing symptoms such as anxiety and depression, social isolation, increased aggression, academic difficulties, and family conflicts. Physically, problematic gaming is linked to health issues like sleep disturbances, increased risk of obesity, and elevated stress biomarkers. These negative effects are especially concerning during childhood and adolescence, periods critical for healthy psychological and physical development.

Multiple studies document these adverse outcomes. Lobel et al. (2017), Yahaya et al. (2023), Lager and Corso (2025), and Rodríguez Rodríguez and García Padilla (2021) report that excessive gaming correlates with internalizing symptoms, social withdrawal, aggression, poorer school performance, and strained family relationships. Physiological health risks are also evident, including disrupted sleep patterns, obesity risk, and stress-related biomarkers (Rodríguez Rodríguez & García Padilla, 2021; Qu, 2023).

Gaming environments themselves often harbor harassment and toxic social interactions, further complicating social well-being (Gottfried & Sidoti, 2024; Bătrânu-Pințea & Coman, 2022). However, Brand et al. (2021) provide compelling evidence that violent video games alone do not cause increased aggression or poor mental health, suggesting that broader social and individual factors must be considered.

Particularly vulnerable are children with neurodevelopmental disorders (NDDs), such as Autism Spectrum Disorder (ASD). Research shows that increased gaming time in children with ASD is associated with higher aggression and social impairments (Davis et al., 2023). Yet, paradoxically, active video games have demonstrated benefits in improving social behaviors in some NDD populations (Rafiei Milajerdi et al., 2023).

Overall, video game addiction—characterized by loss of control and persistent gaming despite negative consequences—disproportionately affects male adolescents and those with neurodevelopmental disorders such as ADHD and ASD (Rodríguez Rodríguez & García Padilla, 2021; Davis et al., 2023). The nature and content of games, including violent or solitary play, can exacerbate negative outcomes, though violent content alone is not a direct cause of aggression (Brand et al., 2021).

Major Findings:

- Excessive or problematic gaming is linked to internalizing symptoms (anxiety, depression), social isolation, aggression, academic difficulties, and family conflicts (Lobel et al., 2017; Yahaya et al., 2023; Lager & Corso, 2025; Rodríguez Rodríguez & García Padilla, 2021).
- Physical health risks include sleep disruption, increased obesity risk, and elevated stress biomarkers (Rodríguez Rodríguez & García Padilla, 2021; Qu, 2023).

- Toxic behaviors and harassment are common in gaming environments, negatively impacting social well-being (Gottfried & Sidoti, 2024; Bătrânu-Pințea & Coman, 2022).
- Meta-analyses show violent video games do not directly increase aggression or cause poor mental health; broader social and individual factors are influential (Brand et al., 2021).
- Children with neurodevelopmental disorders, especially ASD, may experience more aggression and social impairments with excessive gaming, though active video games can improve social behaviors in some cases (Davis et al., 2023; Rafiei Milajerdi et al., 2023).
- Video game addiction disproportionately affects male adolescents and youth with ADHD and ASD, marked by loss of control and continued gaming despite harm (Rodríguez Rodríguez & García Padilla, 2021; Davis et al., 2023).

4. Social Context, Motivation, and Regulation

The social context of video gaming encompasses the environments, relationships, and cultural norms that influence how individuals engage with games. Motivation to play often stems from desires for social connection, identity formation, and skill development, while regulation involves both self-control and external guidance, such as parental oversight and societal policies. Understanding these dimensions is essential for appreciating the complex role gaming plays in youth development and well-being.

Ter Minassian et al. (2022) describe gaming as a dynamic social space where adolescents cultivate identity, friendships, and skills. Within this space, both adolescents and their parents actively regulate gaming time, with peer relationships and social motivations serving as critical factors shaping gaming experiences and outcomes. Supporting this, the UNICEF Innocenti RITEC framework underscores the importance of “game design features and social context” as key moderators influencing the well-being impacts of gaming.

Further nuances arise from demographic factors; Pew Research Center reports that gender, race, and gamer identity significantly shape gaming experiences, affecting both risks and benefits (Gottfried & Sidoti, 2024). Media narratives (Arnoult, 2020) and parental attitudes (Willets, 2025) also play influential roles in how gaming is woven into young people’s lives. While media coverage often emphasizes the risks of gaming, emerging parental support reflects growing recognition of its potential cognitive and social benefits, despite ongoing concerns about screen time and online safety.

Effective regulation and intervention strategies focus on education, fostering family communication, and encouraging responsible innovation in game design to maximize benefits while mitigating harms (UNICEF Innocenti, 2024; Ter Minassian et al., 2022).

Major Findings:

- Gaming serves as a social arena for identity exploration, friendship building, and skill development, with adolescents and parents collaboratively regulating playtime (Ter Minassian et al., 2022).
- The UNICEF Innocenti RITEC framework identifies game design and social context as crucial moderators of gaming's impact on well-being.
- Gender, race, and gamer identity influence the diversity of gaming experiences, shaping associated risks and benefits (Gottfried & Sidoti, 2024).
- Media often focuses on gaming risks, while parental attitudes are becoming more supportive, recognizing cognitive and social skill development through gaming but maintaining concerns about screen time and safety (Arnoult, 2020; Willets, 2025).
- Successful interventions emphasize education, family dialogue, and responsible game design innovation to foster positive gaming outcomes (UNICEF Innocenti, 2024; Ter Minassian et al., 2022).

5. Psychological and Developmental Theories in Understanding Video Games and Psycho-social Development

Psychological and developmental theories provide valuable frameworks for exploring the complex, dual impacts of video games on the psycho-social development of children and adolescents. These theories help explain how video games can simultaneously serve as tools for positive growth and potential sources of maladaptive behavior, reflecting the nuanced role gaming plays in youth development.

Bellevergue (2021) offers a psychoanalytic perspective, describing video games as "transformational objects" that facilitate identity formation and emotional processing. This view is particularly relevant for adolescents experiencing depressive symptoms, as gaming can provide symbolic and defensive functions that aid in navigating emotional challenges. The concept of the "Vidéal" further frames video games as spaces where youths project and modify their ideal selves, supporting adolescent subjectivities -or, alternatively, becoming maladaptive refuges that hinder healthy development.

Erhel and Gonthier (2024) emphasize the critical distinction between healthy and problematic gaming, noting that contextual vulnerabilities shape individual outcomes. Together, these theoretical insights align closely with the focus of this study, which investigates the dual nature of video games -both as catalysts for psycho-social development and as potential risk factors for negative outcomes- in children and adolescents.

Major Findings:

- Video games function as transformational objects that support identity formation and emotional processing in youth (Bellevergue, 2021).
- The "Vidéal" concept highlights video games as spaces for projecting ideal selves, aiding positive development or, conversely, serving as maladaptive refuges.
- Differentiating healthy from problematic gaming is essential, as contextual vulnerabilities influence individual psycho-social outcomes (Erhel & Gonthier, 2024).

- Psychological and developmental theories provide a balanced lens to understand both the benefits and risks of gaming in children and adolescents.

6. Moderators and Mediators of Gaming Outcomes

The effects of video gaming on children and adolescents are influenced by various moderators and mediators that shape individual experiences and developmental trajectories. Executive function plays a crucial mediating role in the relationship between gaming and social development; impairments in cognitive control are associated with poorer outcomes (Xu et al., 2023). Additionally, psychological vulnerabilities such as depression and impulsivity can amplify the risks linked to gaming, whereas supportive social environments and active parental mediation help mitigate negative effects (Bellevergue, 2021; Solanki, 2024; Arnoult, 2020).

Among neurodiverse populations, unique patterns emerge. Adolescents with Autism Spectrum Disorder (ASD) tend to engage more extensively in gaming, which can provide social benefits but also carries increased risks of social impairments when gaming becomes excessive (Davis et al., 2023; Rafiei Milajerdi et al., 2023). The psychoanalytic concept of the “Vidéal” (Bellevergue, 2021) further elucidates how video games function as transformational objects, facilitating identity development or, alternatively, serving as refuges during depressive episodes.

Major Findings:

- Executive function mediates the link between gaming and social development, with cognitive control impairments predicting worse outcomes (Xu et al., 2023).
- Psychological vulnerabilities such as depression and impulsivity increase risks, while positive social contexts and parental mediation buffer negative effects (Bellevergue, 2021; Solanki, 2024; Arnoult, 2020).
- Adolescents with ASD exhibit distinct gaming patterns that can yield both social benefits and heightened risks of social impairments with excessive play (Davis et al., 2023; Rafiei Milajerdi et al., 2023).
- The concept of the “Vidéal” frames video games as transformational objects supporting identity formation or as refuges in depressive states (Bellevergue, 2021).

Conclusion

Video gaming stands as a powerful cultural and economic driving force that significantly shapes the psycho-social development of children and adolescents in complex ways. While it is impossible -and neither desirable- to eliminate video game use among youth, it is crucial that all concerned parties recognize and take seriously the potential negative impacts, such as addiction and mental health challenges. At the same time, moderate and socially embedded gaming offers important benefits, including cognitive growth, enhanced social skills, and greater emotional resilience.

Therefore, stakeholders -including parents, educators, clinicians, and policymakers -must collaborate and implement balanced, evidence-based approaches that amplify the positive effects of gaming while actively reducing its harms. This calls for informed parental mediation to guide healthy gaming habits, the development of inclusive and safe game designs, and targeted support systems for vulnerable children and adolescents.

Looking ahead, continued longitudinal and interdisciplinary research is essential to understand the evolving landscape of gaming technologies and youth cultures. Such efforts will help ensure that strategies remain relevant and effective in protecting young people's psycho-social development while respecting video games' role as a significant cultural phenomenon.

Recommendations

- Promote parental education and mediation to encourage healthy, balanced gaming habits. in other words or simply put
- Advocate for game developers to prioritize inclusive, safe, and psychologically supportive design features.
- Implement school and community programs that integrate gaming into social and educational frameworks positively.
- Develop clinical guidelines and interventions tailored to youth at risk of problematic gaming, especially those with neurodevelopmental vulnerabilities.
- Support ongoing research that examines long-term impacts of gaming within diverse youth populations and technological trends.

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