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Journal of Childhood & Developmental Disorders
ISSN 2471-1786

2025
Vol.11 No.1: 162

# Digital Technology Use and Its Impact on Social Skills in Children with Developmental Disorders

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**Received date:** January 02, 2025, Manuscript No. ipcdd-25-20768; **Editor assigned date:** January 04, 2025, PreQC No. ipcdd-25-20768 (PQ); **Reviewed date:** January 18, 2025, QC No. ipcdd-25-20768; **Revised date:** January 24, 2025, Manuscript No. ipcdd-25-20768 (R); **Published date:** January 31, 2025, DOI: 10.36648/2471-1786.11.1.162

**Citation:** Patil M (2025) Digital Technology Use and Its Impact on Social Skills in Children with Developmental Disorders. J Child Dev Disord Vol.11 No.1: 162.

## Introduction

The integration of digital technology into daily life has transformed how children learn, communicate, and interact with their environment. From smartphones and tablets to educational applications and social media platforms, digital tools have become ubiquitous in shaping early development. For children with developmental disorders, such as autism spectrum disorder (ASD), attention-deficit/hyperactivity disorder (ADHD), or language impairments, technology can serve as both a support system and a potential source of challenge. On one hand, digital platforms offer opportunities for individualized learning, communication enhancement, and skill-building interventions tailored to each child's developmental profile. On the other hand, concerns persist regarding the potential for technology overuse to displace real-world social interactions, thereby exacerbating social skill deficits that are already characteristic of many developmental disorders. Understanding the nuanced impact of digital technology use on social development in this population requires careful examination of its benefits, risks, and long-term implications [1].

## Description

One of the most promising applications of digital technology for children with developmental disorders lies in its role as a therapeutic and educational tool. Assistive communication technologies, including augmentative and alternative communication devices and tablet-based applications, have revolutionized communication for children with limited verbal abilities. Children with ASD who struggle with expressive language may use picture-based communication apps to initiate interactions and express needs, thereby fostering social engagement. Gamified interventions and virtual reality platforms are increasingly used to teach social skills, such as recognizing emotions, turn-taking, and perspective-taking, in controlled and motivating environments. Longitudinal studies indicate that when used intentionally and under professional guidance, these tools can contribute to measurable improvements in functional communication and social participation [2].

Despite these benefits, digital technology use also raises concerns about its potential to limit opportunities for face-to-face social interaction. Excessive screen time, particularly unstructured use involving passive video consumption or solitary gaming, has been associated with reduced opportunities for practicing real-world communication. For children with developmental disorders, who may already face difficulties with joint attention, social reciprocity, and pragmatic communication, reliance on screens can reinforce patterns of social withdrawal. Over time, this may hinder the acquisition of foundational social skills that are best learned in dynamic, interpersonal contexts. Research suggests that the quality and context of digital engagement matter more than sheer quantity: while interactive, socially oriented applications may enhance skills, solitary and unregulated use can exacerbate deficits. Parents and educators therefore face the challenge of distinguishing between beneficial and potentially detrimental uses of technolog [3].

The long-term implications of digital technology use for social development in children with developmental disorders remain an area of active investigation. While short-term interventions often demonstrate gains in targeted skills, the extent to which these translate into real-world, sustained social improvements is less clear. For instance, a child who learns emotion recognition through a virtual reality program may still struggle to generalize this skill in a busy classroom setting with multiple, unpredictable social cues. Moreover, questions remain regarding critical developmental windows: does early exposure to structured digital interventions provide a lasting foundation for social growth, or does it risk delaying the acquisition of naturally occurring interactional skills? Longitudinal studies are needed to disentangle these effects, particularly given the rapidly evolving nature of digital platforms. As technology continues to advance, the challenge will be ensuring that innovations are evaluated not only for their immediate efficacy but also for their broader developmental impact. Structured digital environments can provide safe spaces for some children to connect with peers who share similar interests, thereby supporting a sense of belonging. Balancing these dynamics requires awareness of both the potential supportive role and the limitations of technology in cultivating authentic social connection [4,5].

## Conclusion

Digital technology exerts a complex and multifaceted influence on the social skills of children with developmental disorders. When harnessed thoughtfully, it can serve as a powerful tool to enhance communication, teach social skills, and promote engagement in ways that align with individual strengths and needs. However, unstructured or excessive use risks displacing essential real-world interactions, potentially exacerbating existing challenges in social development. The key lies in balance: integrating technology into comprehensive intervention plans that emphasize both digital and interpersonal learning. Parents, educators, and clinicians must collaborate to create structured, intentional, and context-sensitive uses of technology, while monitoring for potential negative impacts. Future research should focus on longitudinal outcomes, examining how digital interventions interact with developmental trajectories and how best to promote skill generalization across settings. Ultimately, digital technology should be viewed not as a replacement for human interaction but as a supplement—one that, when guided by evidence-based practices, can enrich the social development of children with developmental disorders.

## Acknowledgement

None.

## Conflict of Interest

None.

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