



Silent Children Bright Screens

Challenges and Opportunities in Emotion Regulation

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Screen

For the first time in human history, children under six are growing up in environments where screens are more present, more accessible, and more influential than real people.

A decorative graphic consisting of several thick, purple, curved dashes arranged in a partial arc in the bottom right corner of the slide.

A New generation in a New era

This change immediately impacts the following domains:

emotion regulation

communication

social development

The Digital Dilemma

- Rising screen exposure among preschoolers

- Emotion regulation as a foundational developmental skill

- How digital environments shape emotion processing

Screens and the Emotional Brain

Screens provide stimulation, but not relationship.

They activate the visual sensory system, but not the emotional circuits responsible for empathy, emotional regulation, and shared attention.

Development From birth to age two

The brain develops faster than at any other time. More than **one million new neural connections form every second**.

This period relies heavily :

- 1. Live interaction**
- 2. reciprocal interaction (eye contact)**
- 3. turn-taking**
- 4. facial cues**
- 5. sensory-motor exploration**

Heavy
screen
exposure is
linked to

Poor emotion regulation

Increased aggression and irritability

Executive dysfunction (weak inhibition,
poor attention shifting)

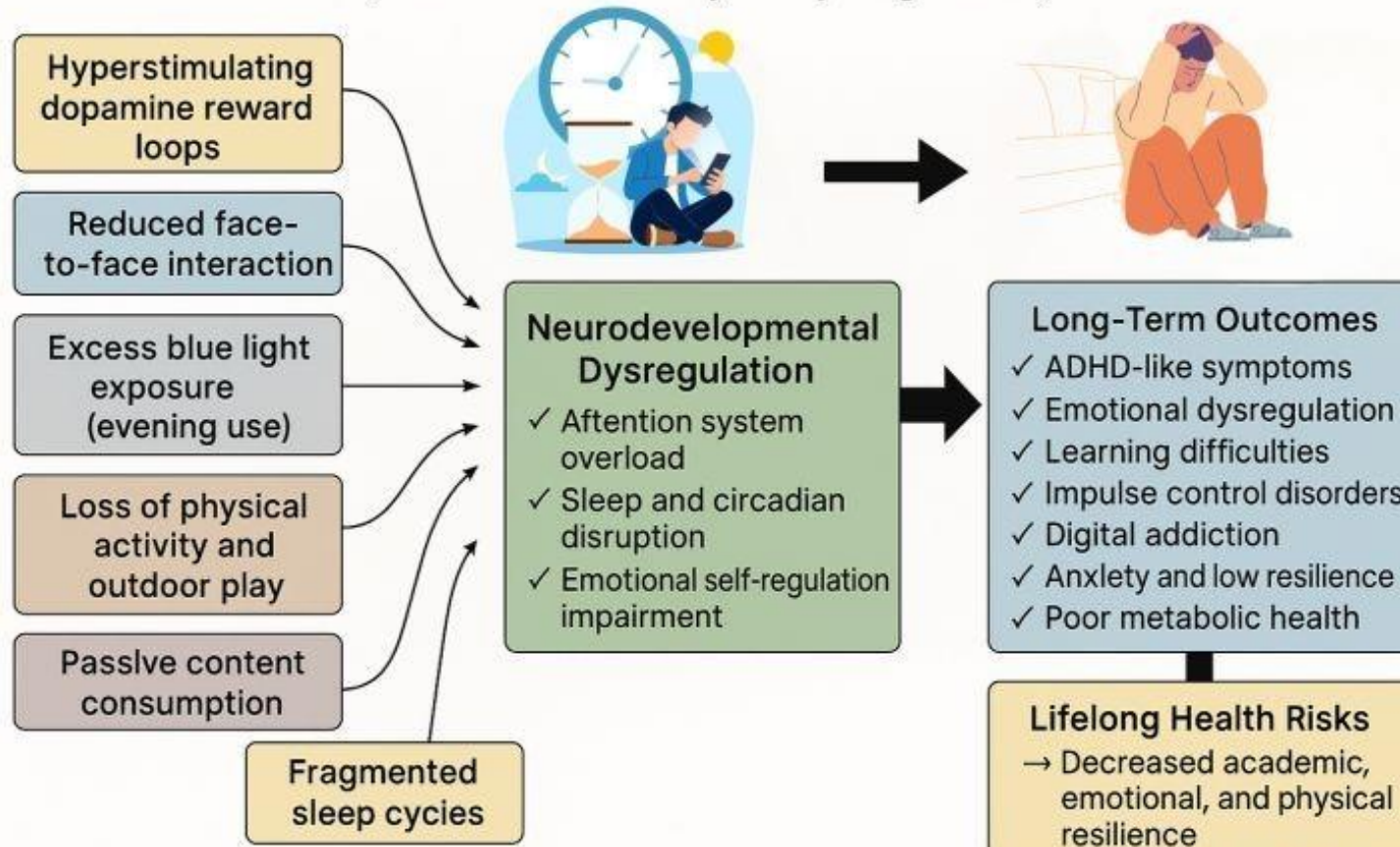
Sleep disruption

Lower motor development due to reduced
physical play

Overstimulation from fast-paced content

Chronic Screen Exposure Pathway

(The Silent Pathway to Dysregulation)



Passive Use & Behavioral Displacement

- Passive screen time
→ lower emotional resilience

- Interactive vs. solitary use matters

- Need for structured, co-interactive exposure

Emotion Regulation Pathways Impacted

Screens interfere with:

- ❑ Prefrontal cortex maturation
- ❑ Mirror neuron activation
- ❑ Parent–child synchrony
- ❑ Sensory-motor exploration
- ❑ Stress-regulation systems (HPA axis)



Theoretical Framework

- Process Model of Emotion Regulation (Gross, 2015)

- Parental Reflective Functioning (Slade, 2021)

- Bronfenbrenner's Ecological Systems Theory

- Child as an active agent in emotion development

Recent Research Findings (2022– 2025)

- Coyne et al. (2023): Screen time linked to delayed emotion labeling

- Valkenburg et al. (2022): Parent mediation moderates impact

- Nathanson et al. (2024): Emotional co-viewing as protective factor

- Lee & Johnson (2025): Digital overexposure and empathy decline

Other Findings

**Increased risk of language delays
(Madigan et al., 2020)**

**Higher emotional reactivity and
tantrums (Radesky & Christakis,
2022)**

**Impaired joint attention and social
reciprocity**

**Autism-like symptoms with heavy
screen use before age 2 (Zhang et al.,
2023)**

**Screen time and delays in
developmental skills(Sajjadi, 2024)**

Protective Strategies



- Emotion Coaching (Gottman, 2023)



- Mindful Media Use Programs



- Dyadic Play Therapy for Co-regulation



- Structured Digital Diet (30–60 mins co-viewing)

Protective Strategies

- Screening for emotion dysregulation

- Training educators on digital-era emotion regulation

- Parental guidance for balanced exposure

- Emotion-focused family routines

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Three major factors

Time,
Content,
and
Context

1. **Duration**

More than 1 hour/day (ages 2–5) → significant risk for emotional and behavioral problems.

2. **Content**

Fast-paced, overstimulating shows (e.g., Cocomelon-style) dysregulate the nervous system.

3. **Context**

Child alone with a screen = highest risk

Co-viewing with a parent = significant protection

Opportunities (Telehealth, Education)



High-quality educational programming



Video-call interactions that support attachment



Telehealth, especially for underserved families

Conclusion & Future Directions

- Balance technology and human connection

- Emotionally intelligent media habits

- AI-based interventions for emotional learning

- Shared responsibility: parents, educators, policymakers

Final Thoughts

- “Silent children become seen again when we replace bright screens with bright relationships.”
- “Do not allow screens to become your child’s babysitter . Children need real faces, real voices, and real relationships to develop emotionally.”



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Conclusion: A Call for Balance

Children do not need a world without screens.

They need a world where adults filter, limit, guide, and co-experience screen use.