

Thomas Jefferson University Jefferson Digital Commons

Department of Occupational Therapy Posters and Presentations

Department of Occupational Therapy

10-23-2015

Implications of Screen Use in Young Children's Occupations

Denise G. Doria, OTS
Thomas Jefferson University

Michele Mathew, OTS
Thomas Jefferson University

Mary Muhlenhaupt, OTD, OTR/L, FAOTA Thomas Jefferson University

Follow this and additional works at: https://jdc.jefferson.edu/otpresentations



Let us know how access to this document benefits you

Recommended Citation

Doria, OTS, Denise G.; Mathew, OTS, Michele; and Muhlenhaupt, OTD, OTR/L, FAOTA, Mary, "Implications of Screen Use in Young Children's Occupations" (2015). *Department of Occupational Therapy Posters and Presentations*. Paper 33.

https://jdc.jefferson.edu/otpresentations/33

This Article is brought to you for free and open access by the Jefferson Digital Commons. The Jefferson Digital Commons is a service of Thomas Jefferson University's Center for Teaching and Learning (CTL). The Commons is a showcase for Jefferson books and journals, peer-reviewed scholarly publications, unique historical collections from the University archives, and teaching tools. The Jefferson Digital Commons allows researchers and interested readers anywhere in the world to learn about and keep up to date with Jefferson scholarship. This article has been accepted for inclusion in Department of Occupational Therapy Posters and Presentations by an authorized administrator of the Jefferson Digital Commons. For more information, please contact: JeffersonDigitalCommons@jefferson.edu.



Implications of Screen Use in Young Children's Occupations

Denise Doria, OTS; Michelle Mathew, OTS & Mary Muhlenhaupt, OTD, OTR/L, FAOTA

Thomas Jefferson University, Department of Occupational Therapy

Introduction

OTs need to address both the duration and quality of screen media children use, to promote their development and participation in healthy occupations.

Trends in Media Use

- 2/3 children and teens report their parents have "no rules" about media time (Strasburger et al., 2013)
- By 8 y/o, children are engaged in nearly 8 hours screen media each day (Strasburger et al., 2013; Lillard & Peterson, 2011)
- Children spend an average of 40 hrs/wk engaged in television, movies, and/or video games, which is more time than they spend in any other activity besides sleep (Gentile, Reimer, Nathanson, Walsh, & Eisenmann, 2014).
- 39% of children < 8 y/o live in homes where the television is left on all or most of the time, whether or not anyone is watching (Strasburger, Jordan, & Donnerstein, 2010).
- Conversely, when parents establish media rules, media use ♥ by ~3 hours (National Institutes of Health, 2013)



Impact on Development

Attention

• TV: Early television exposure (ages 1 and 3) associated with attention problems at 7 yrs (Christakis, Zimmerman, DiGiuseppe, & McCarty, 2004)

Executive Functioning

 Fast-paced TV: 9 mins of viewing → immediate negative effects on 4 y/o (Lillard & Peterson, 2011)

Physical Health

• ↑ screen time in early childhood is associated with ↓ time spent in physical activities & ↑ likelihood of being overweight or obese. (Gentile et al. 2014)

Play

Sleep

- 90% of studies: adverse association between screen time and sleep (Hale & Guan, 2014)
 - Computer use (94%), Video Games (86%), Mobile Devices (83%), TV (76%)
 - Interactive has less adverse effects on sleep than passive screen time
- ↑ arousal levels depend on type of screen media → affect child's ability to fall and remain asleep. (Hale & Guan, 2014)
- Tablet use: 2 hours exposure to bright screens contributes to ♥ melatonin (Hale & Guan, 2014)

Social Skills

- Media violence: is a causal factor in real-life violence and aggression (Strasburger, Jordan, & Donnerstein, 2012)
- Children showed disruptive behaviors when caregivers used a mobile screen device during mealtime (Radesky et al., 2014)

Educational TV - Positive Impacts

- In adolescence → greater creativity, academic achievement, and decreased aggression (Anderson et al., 2001)



Recommendations

AAP: > 2 years old, < 2 hours recreational screen time/day

NASPE Active Play Guidelines: toddlers and preschoolers - at least 60 minutes/day; should not be sedentary > 60 minutes at a time

- Discuss media use and "screen time diet" with family/caregiver include child
- Establish media limits in child's weekly routines and during family time, with family/child coviewing encouraged

Parents should actively mediate content and time (Gentile et al., 2014)

- Facilitate conversation during commercials
- Emphasize interactive, educational, and culturally diverse programming (ie: Sesame Street)
- Reduce/eliminate fast-paced TV, media during mealtime and before bedtime
- Discourage media use when friends are visiting

References

Gentile, D. A., Reimer, R. A., Nathanson, A. I., Walsh, D. A., & Eisenmann, J. C. (2014). Protective effects of parental monitoring of children's media use: a prospective study. *JAMA Pediatrics*, 168(5), 479-484.

Strasburger, V. C., Hogan, M. J., Mulligan, D. A., Ameenuddin, N., Christakis, D. A., Cross, C., ... & Swanson, W. S. L. (2013). Children, adolescents, and the media. *Pediatrics*, 132(5), 958-961.doi:10.1542/peds.2013-2656.

See additional references on reverse

Implications of Screen Use in Young Children's Occupations

Denise Doria, OTS, Michelle Mathew, OTS, & Mary Muhlenhaupt, OTD, OTR/L, FAOTA

Thomas Jefferson University, Department of Occupational Therapy
Poster Presentation: Pennsylvania Occupational Therapy Association

38th Annual Conference
October 23, 2015 Scranton, PA

References

- Anderson, D. R., Huston, A. C., Schmitt, K. L., Linebarger, D. L., Wright, J. C., & Larson, R. (2001). Early childhood television viewing and adolescent behavior: The recontact study. *Monographs of the Society for Research in Child Development*.
- Christakis, D. A., Zimmerman, F. J., DiGiuseppe, D. L., & McCarty, C. A. (2004). Early television exposure and subsequent attentional problems in children. *Pediatrics*, 113(4), 708-713.
- Gentile, D. A., Reimer, R. A., Nathanson, A. I., Walsh, D. A., & Eisenmann, J. C. (2014). Protective effects of parental monitoring of children's media use: a prospective study. *JAMA Pediatrics*, 168(5), 479-484.
- Hale, L., & Guan, S. (2014). Screen time and sleep among school-aged children and adolescents: A systematic literature review. *Sleep Medicine Reviews*. doi:10.1016/j.smrv.2014.07.007
- Lillard, A. S., & Peterson, J. (2011). The immediate impact of different types of television on young children's executive function. *Pediatrics*, 128(4), 644-649. doi:10.1542/peds.2010-1919
- Linebarger, D. L., & Vaala, S. E. (2010). Screen media and language development in infants and toddlers: An ecological perspective. *Developmental Review*, 30(2), 176-202.
- Linebarger, D. L., & Walker, D. (2005). Infants' and toddlers' television viewing and language outcomes. *American Behavioral Scientist*, 48(5), 624-645.
- National Association for Sport and Physical Education (2011). Active start: a statement of physical activity guidelines for children from birth to age 5. Retrieved from http://www.shapeamerica.org/standards/guidelines/activestart.cfm
- National Heart, Lung & Blood Institute (NIH). (2013). Reduce screen time. Retrieved from www.nhlbi.nih.gov/health/educational/wecan/reduce-screen-time/index.htm
- Strasburger, V. C., Hogan, M. J., Mulligan, D. A., Ameenuddin, N., Christakis, D. A., Cross, C., ... & Swanson, W. S. L. (2013). Children, adolescents, and the media. *Pediatrics*, 132(5), 958-961.doi:10.1542/peds.2013-2656.
- Strasburger, V. C., Jordan, A. B., & Donnerstein, E. (2010). Health effects of media on children and adolescents. *Pediatrics*, 125(4), 756-767.
- Strasburger, V. C., Jordan, A. B., & Donnerstein, E. (2012). Children, adolescents, and the media: Health effects. *Pediatric Clinics of North America*, 59(3), 533-587.
- Radesky, J. S., Kistin, C. J., Zuckerman, B., Nitzberg, K., Gross, J., Kaplan-Sanoff, M., Augustyn, M., & Silverstein, M. (2014). Patterns of mobile device use by caregivers and children during meals in fast food restaurants. *Pediatrics*, 133(4), e843-e849. doi:10.1542/peds.2013-3703.