

10-31-2014

## Screen Time Overtime: Should a “Screen Time Diet” be Part of Healthy Everyday Activities and Routines for Families and Their Young Children?

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### Recommended Citation

Jamieson, OTS, Sarah and Muhlenhaupt, OTD, OTR/L, FAOTA, Mary, "Screen Time Overtime: Should a “Screen Time Diet” be Part of Healthy Everyday Activities and Routines for Families and Their Young Children?" (2014). *Department of Occupational Therapy Posters and Presentations*. Paper 19.

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## Introduction

Though television is still the primary form of media for children, almost one-third of TV programming is accessed through smart phones, tablets, and computers (Strasburger et al., 2013).

- Families do not adhere to AAP’s guidelines (Brown, 2011)
- Research suggests detrimental effect on young children

### American Academy of Pediatrics:

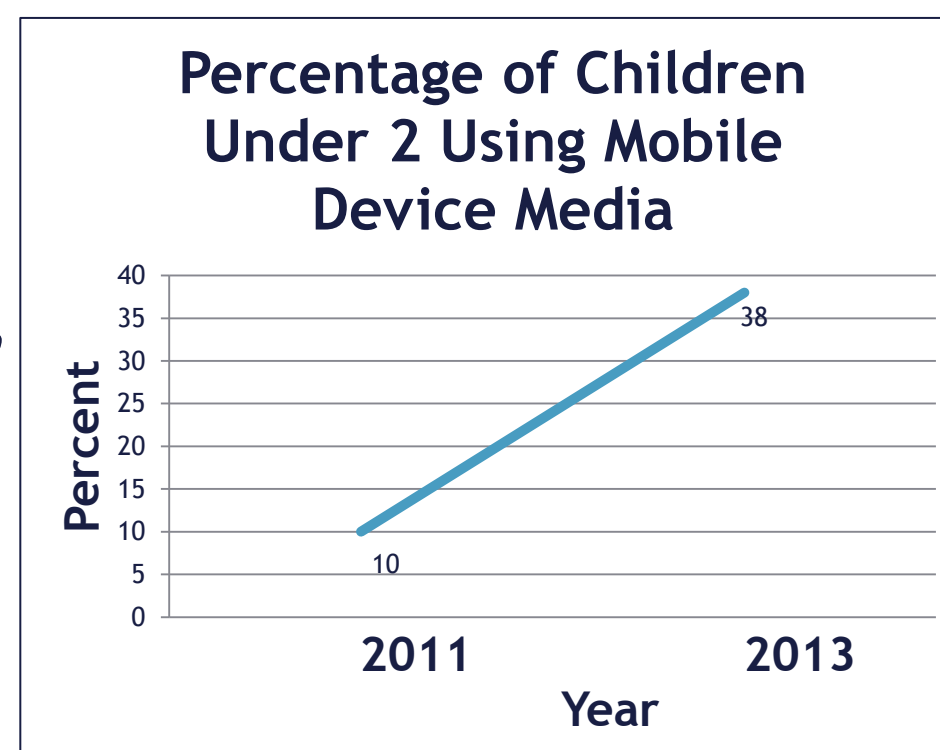
- No media for children under 2
- <1-2 hrs/day for children over 2

OT’s are an integral resource to help families design healthy recreational “screen time diets.”

## Trends in Media Use

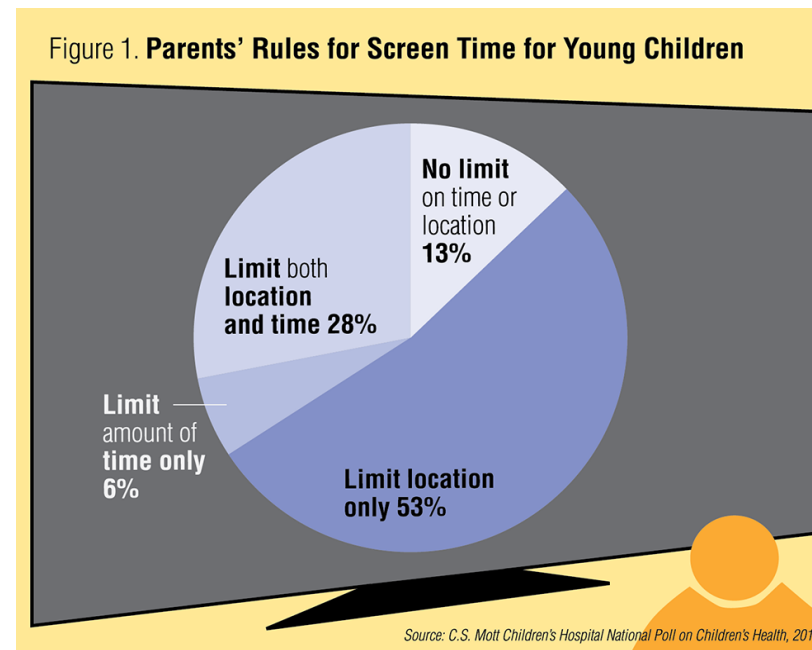
- Children < 2 years old watch 1-2 hours of television/day (Brown, 2011)
- Over 50% of 6-month infants exposed to at least an hour of media per day, (Tomopoulos et al., 2010)

- 28% increase in mobile device (smart phone, iPad, tablet) use from 2011 to 2013 (Common Sense Media, 2013)



- Parent’s negative concerns only related to TV consumption (Cingel & Krcmar, 2013)
- 55% of parents “not too” or “not at all” concerned about media (Wartella et al., 2013)

- Over 50% of parents limit screen time location, not duration (C.S. Mott’s Children’s Hospital, 2014)



## Impact on Development

### Language

- Media exposure at age 6 months → “lower” language development at 14 months (Tomopoulos et al., 2010)
- Each hr/day of baby DVD’s/videos in infants 8-16 months old → negative correlation to vocabulary acquisition (Zimmerman, Christakis & Meltzoff, 2007)

### Cognition

- “Video deficit”: children < 2.5 have trouble processing screen information; live person, two-way exchange preferred (Kirkorian & Pempek, 2013)
- Longer daily media exposure → lower cognitive development (Tomopoulos et al., 2010)

### Attention

- Hours of daily television viewing at ages 1 and 3 → attentional problems at age 7 (Christakis et al., 2004)
- Content of TV material related to later attentional difficulties in 3 year-olds (Zimmerman & Christakis, 2007)

### Active Play

- Background TV → decreased attention to active play in 12, 24, and 36 mo. olds (Schmidt et al., 2008)

- Every hour of television → 9% less time spent in play for a child < 2 (Brown, 2011)

### Family Connectedness

- Children who watch television without parents → less time with parents and siblings in other activities (Vandewater, Bickham & Lee, 2006)
- Lower-quality mother-child play with electronic versus non-electronic toys (Wooldridge & Shapka, 2012)

## “Screen Time Diet” Recommendations

- Adhere to AAP guidelines for children < 2
- For children > 2:
  - Joint engagement
  - Establish appropriate contexts and routines for screen media use
  - Eliminate background media
  - Encourage pretend and unstructured, active play
  - NASPE Active Play Guidelines: toddlers and preschoolers at least 60 minutes/day; should not be sedentary > 60 minutes at a time

## References

Brown, A. (2011). Media use by children younger than 2 years. *Pediatrics*, 128(5), 1040-1045.

Strasburger, V. C., et al. (2013). Children, adolescents, and the media. *Pediatrics*, 132(5), 958-961.

C.S. Mott Children’s Hospital National Poll of Children’s Health: Screening out screen time: Parents limit media use for young children (2014).



See attachment for complete reference list

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Poster Presentation: Pennsylvania Occupational Therapy Association  
37<sup>th</sup> Annual Conference  
October 31, 2014  
King of Prussia, PA

References

- Brown, A. (2011). Media use by children younger than 2 years. *Pediatrics*, *128*(5), 1040-1045.
- 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.
- Cingel, D. P., & Krcmar, M. (2013). Predicting media use in very young children: The role of demographics and parent attitudes. *Communication Studies*, *64*(4), 374-394.
- C.S. Mott Children’s Hospital National Poll of Children’s Health: Screening out screentime: Parents limit media use for young children (2014). Retrieved from <http://mottnpch.org/reports-surveys/screening-out-screen-time-parents-limit-media-use-young-children>
- Common Sense Media & Rideout, V. (2013). Zero to eight: Children's media use in America. Common Sense Media. Retrieved from <https://www.commonsensemedia.org/research/zero-to-eight-childrens-media-use-in-america-2013>
- Kirkorian, H. L., & Pempek, T. A. (2013). Toddlers and Touch Screens. *The Journal of Zero To Three*, *33*(4), 32-37.
- 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>

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### References Page 2

- Schmidt, M. E., Pempek, T. A., Kirkorian, H. L., Lund, A. F., & Anderson, D. R. (2008). The effects of background television on the toy play behavior of very young children. *Child Development, 79*(4), 1137-1151.
- Strasburger, V. C., et al. (2013). Children, adolescents, and the media. *Pediatrics, 132*(5), 958-961
- Tomopoulos, S., Dreyer, B. P., Berkule, S., Fierman, A. H., Brockmeyer, C., & Mendelsohn, A. L. (2010). Infant media exposure and toddler development. *Archives of Pediatrics & Adolescent Medicine, 164*(12), 1105-1111.
- Vandewater, E. A., Bickham, D. S., & Lee, J. H. (2006). Time well spent? Relating television use to children's free-time activities. *Pediatrics, 117*(2), e181-e191.
- Wartella, E., Rideout, V., Lauricella, A., & Connell, S. (2013). Parenting in the age of digital technology: A national survey. Center on Media and Human Development, School of Communication, Northwestern University. Retrieved from <http://www.northwestern.edu/newscenter/stories/2013/06/study-finds-parents,-not-young-kids,-drive-childrens-media-use.html>
- Wooldridge, M. B., & Shapka, J. (2012). Playing with technology: Mother–toddler interaction scores lower during play with electronic toys. *Journal of Applied Developmental Psychology, 33*(5), 211-218.
- Zimmerman, F. J., & Christakis, D. A. (2007). Associations between content types of early media exposure and subsequent attentional problems. *Pediatrics, 120*(5), 986-992.
- Zimmerman, F. J., Christakis, D. A., & Meltzoff, A. N. (2007). Associations between media viewing and language development in children under age 2 years. *The Journal of Pediatrics, 151*(4), 364-368.