

The impact of screen use on the socio-emotional development of Irish 5-year-olds

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Screen Use and Socio-Emotional Development



Mostly measured in adolescents

(Ferguson, 2011, 2015, 2017; Przybylski, 2017; Przybylski & Orben, 2018; 2019)

?

Small effect sizes;

Reporting in the media;

Replication issues

(Elson & Ferguson, 2014; Bell, Bishop & Przybylski, 2015)

Research on children is focused on TV viewing or Video games – Hyperactivity, Aggression, and Peer Problems

(Anderson & Bushman, 2001; 2002)



Screen Use and Socio-Emotional Development

(Ferguson, 2015)

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Well-designed games and apps can provide social skills and communication skills

(Yeh-Lane, Moosbrugger, Liu, & Arnold, 2011; Ke & Im, 2013)



Importance of parental engagement

(Richert, Robb, Fender, & Wartella, 2010; Brown, 2011; Haughton, Aiken, & Cheevers, 2015)



E-books and bonding

(Ross, Pye, & Randell, 2016)

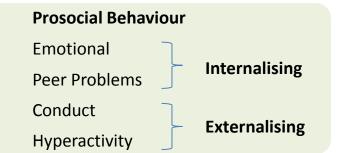








Strengths and Difficulties Questionnaire (SDQ)





ANOVAs and Regressions:

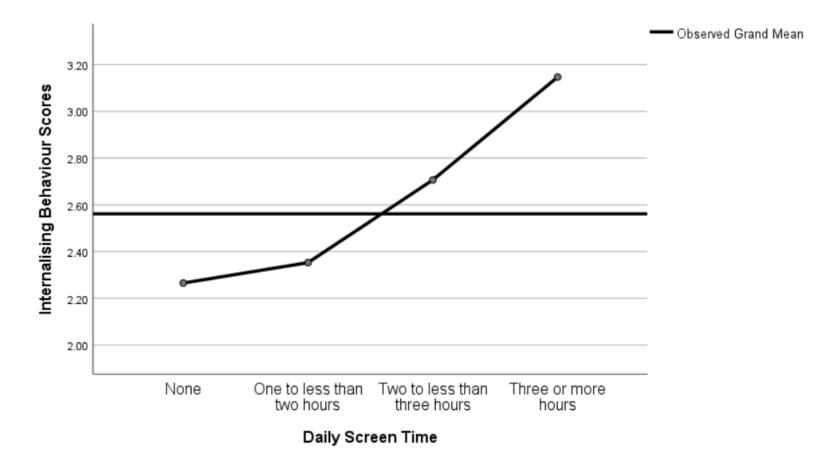
Screen Use Variables Attachment Variables Environmental & Family Factors



Findings: Internalising Behaviour

Screen Time: (None, 1 to <2 hours, 2 to <3 hours, 3 or more hours)

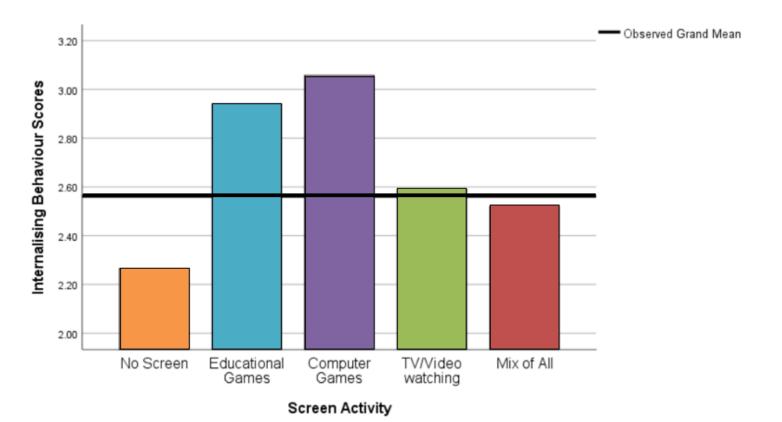
- *F*(3,8997)=39.671, *p*<.001
- 2-3 hours and more than 3 hours significantly higher





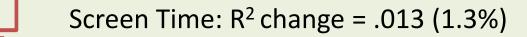
Screen Activity: (No Screen Time, Educational Games, Computer Games, TV/Videos, Mix of All)

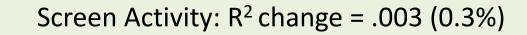
- *F*(4,8986)=4.881, *p*=.001
- Computer games significantly higher than all but educational games





Findings: Internalising Behaviour







Attachment with caregiver: R² change = .175 (17.5%)

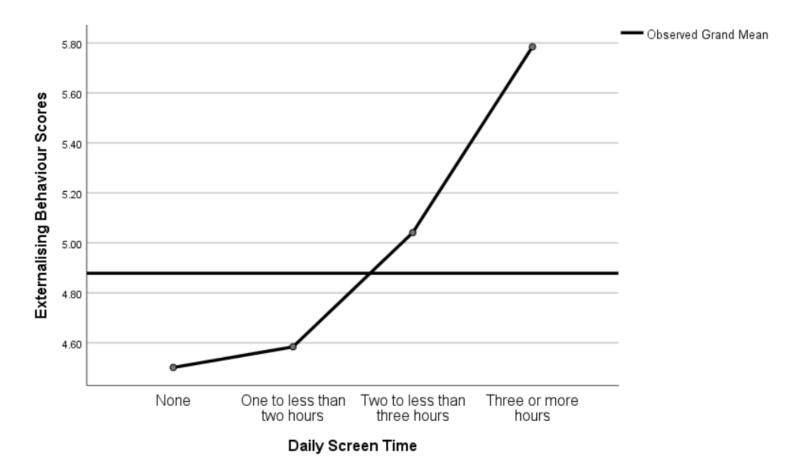


Education/SES/Siblings: R² change =.011 (1.1%)



Screen Time: *F*(3,8996)=44.973, *p*<.001

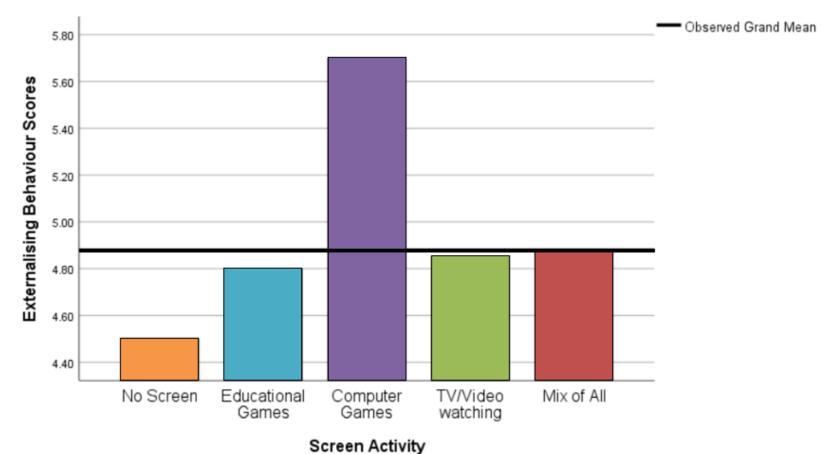
• 2-3 hours and more than 3 hours significantly higher





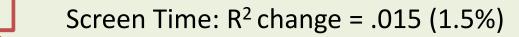
Screen Activity: *F*(3,8985)=4.676, *p*=.001

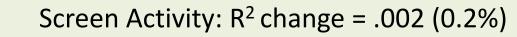
• Computer games significantly higher than all activities





Findings: Externalising Behaviour







Attachment with caregiver: R² change = .321 (32.1%)



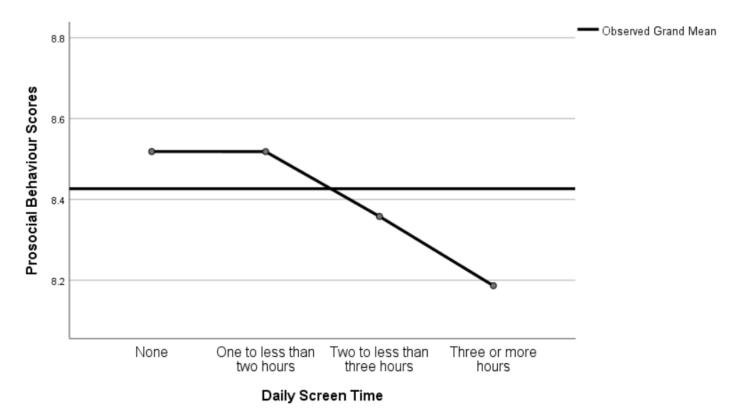
Education/SES/Siblings: R² change =.018 (1.8%)



Screen Time: *F*(3,8997)=15.670, *p*<.001

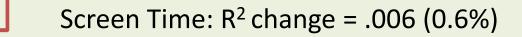
• 2-3 hours and more than 3 hours significantly lower

Screen Activity: *F*(3,8986)=2.726, *p*=.406





Findings: Prosocial Behaviour







Attachment with caregiver: R² change = .175 (17.5%)



Education/SES/Siblings: R² change =.003 (0.3%)



How does this compare?



More than two hours of screen time a day had a negative, but small, effect on the children's socio-emotional development scores



Children who engaged mostly in computer games scored higher in the scales than any other screen activity



Effect sizes are small and therefore should be interpreted with caution



Parental attachment and stress levels, along with environmental factors, have a higher impact on socio-emotional development than screen use variables (especially externalising behaviour)



Future Research and Implications

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Focusing on the **content** rather than time itself



Providing strong scientific evidence to back up claims



Observing screen time in **context**



Parental advice



Parental technology use (**Connections**)



Advising governmental policies





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Thank You

Questions?

L A B Ψ C D L Cognition, Development and

Learning Lab @MIC







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