

Vilniaus universitetas

Internet use in preadolescence: whether and how it has changed during quarantine due to Covid-19 pandemic

Roma Jusienė, Ph.D., Professor at Institute of Psychology, Faculty of Philosophy, Vilnius University

- Acknowledgments:
- School-aged children's Internet use in relation to socioemotional development and parenting practices in Latvia, Lithuania and Taiwan: a longitudinal study
- Funded by Mutual Funds between the Ministry of Education and Science of the Republic of Lithuania, the Ministry of Education and Science of the Republic of Latvia and the Ministry of Science and Technology (MOST) of the Republic of China (Taiwan). Lithuanian research is funded by Research Council of Lithuania and MOST, contract no. S-LLT-18-3, year 2018-2020.
- Principal researchers in Lithuania Ilona Laurinaitytė, Vilmantė Pakalniškienė; Latvian research team (leader Sandra Sebre); Taiwan research team (leader Jennifer Wu)
- Distance education of children during the COVID-19 pandemic: threats and opportunities from an ecosystem perspective
- Funded by Research Council of Lithuania (contract no. S-COV-20-11), year 2020.
- Group of 15 researchers, the main collaborant researcher for this research is Rima Breidokienė
- www.mediavaikai.lt

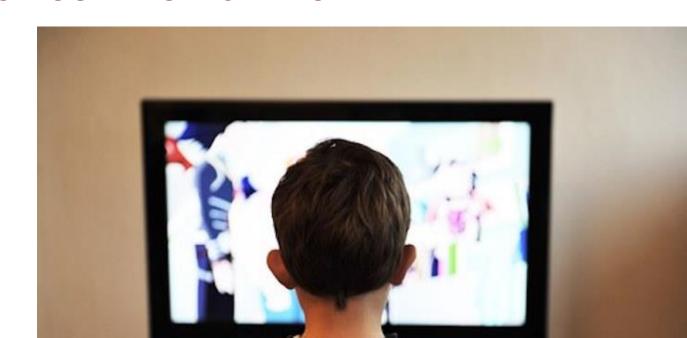
"No one is free who has not obtained the empire of himself" *Pythagoras*

The most powerful control we can ever attain is to be in control of ourselves.

Are we still in control of ourselves when online?

Or are we controlled by Internet?
Powerful and Inclusive

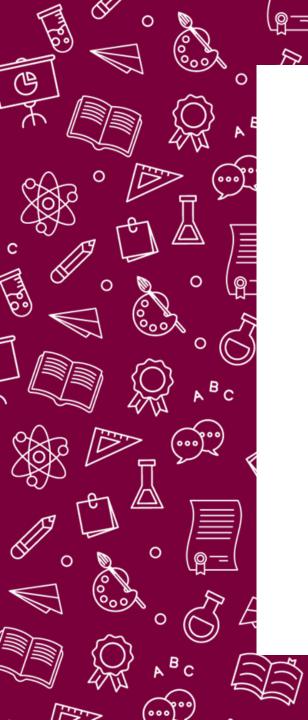
Technologies?
Are children in control of themselves?



Internet use in preadolescence

- The more and the younger children spend more time online
- Need to recognize the early risks for excessive / compulsive / problematic Internet use
- Compulsive Internet Use (CIU) marked by difficulty in controlling one's use of the Internet, the need for increasingly time spent using the Internet, and withdrawal symptoms such as irritability when one is not using the Internet (Meerkerk et al., 2007; 2009)
- (Inter)related to mental health problems and Internet use (time spent online)
- ...and here comes the pandemic due to Covid-19...
- Quarantine and distant education in March-May, 2020





Research questions

How much time elementary school / preadolescent children (aged 10 to 11 years old) spend online?

Whether and how Internet use changed during quarantine?

What about compulsivity of Internet use?

What are the risks for compulsive Internet use in preadolescence?

Methods

Participants

Sample 1: 293 parents of children aged 9 to 11 years old, in Autumn 2019.

Part of project funded by LMTLT (co.no. S-LLT-18-3) in collaboration with LA and TW; children from four elementary school in Vilnius

Sample 2: 97 parents of children 10-11 years old, in late Spring, 2020.

Part of project funded by LMTLT (co.no. S-COV-20-11) and part of longitudinal study; children mainly from Kaunas, 2nd largest city of LT

Procedure

Parental reports, mostly mothers (Sample 1: 87%; Sample 2: 97%)

Informed consents; collaboration with schools (Sample 1) and agreement to take part in longitudinal study from year 2009 (Sample 2)

Measures

Compulsive Internet Use Scale, CIUS, very good reliability and validity (Meerkerk et al., 2008; Jusienė, Laurinaitytė, Pakalniškienė, 2020)

Screen time on schooldays and weekends; Activities when online

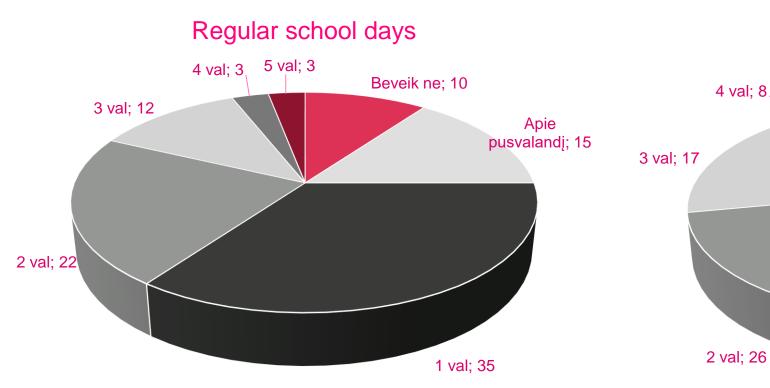
Behavioral and emotional problems, and Prosocial behavior; Strengths and Difficulties Questionnaire (SDQ; Goodman, 2005)

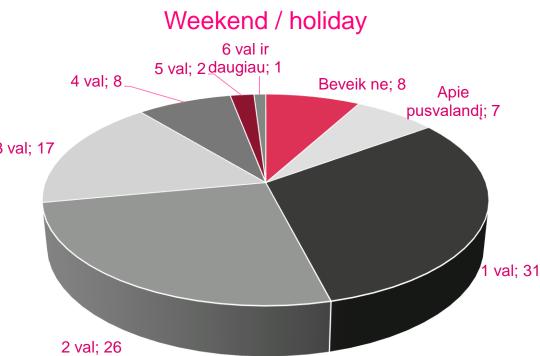


Results: Time online

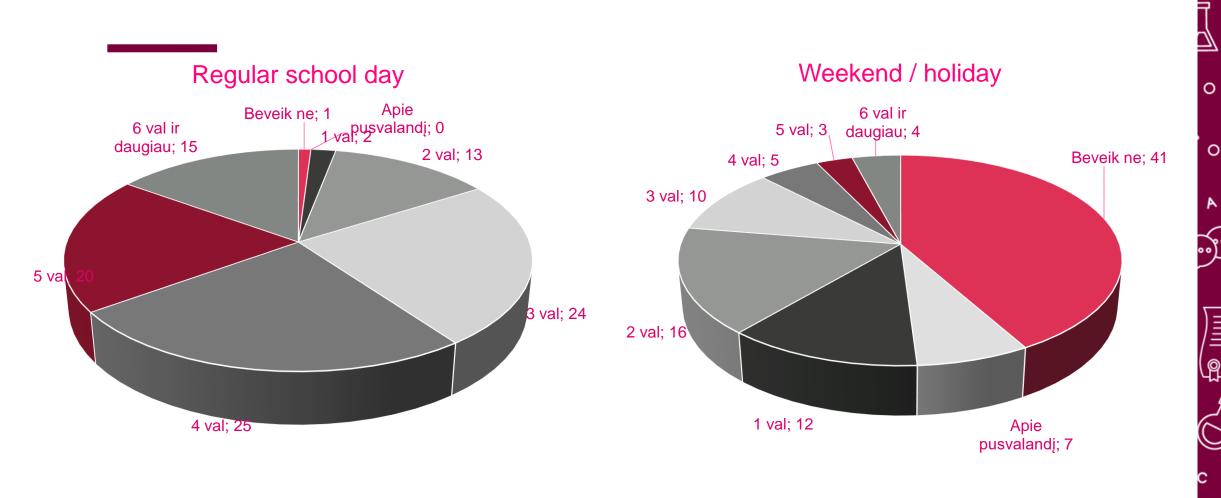
In year 2019 as compared to 2020 (quarantine)

TIME ONLINE in 2019; %

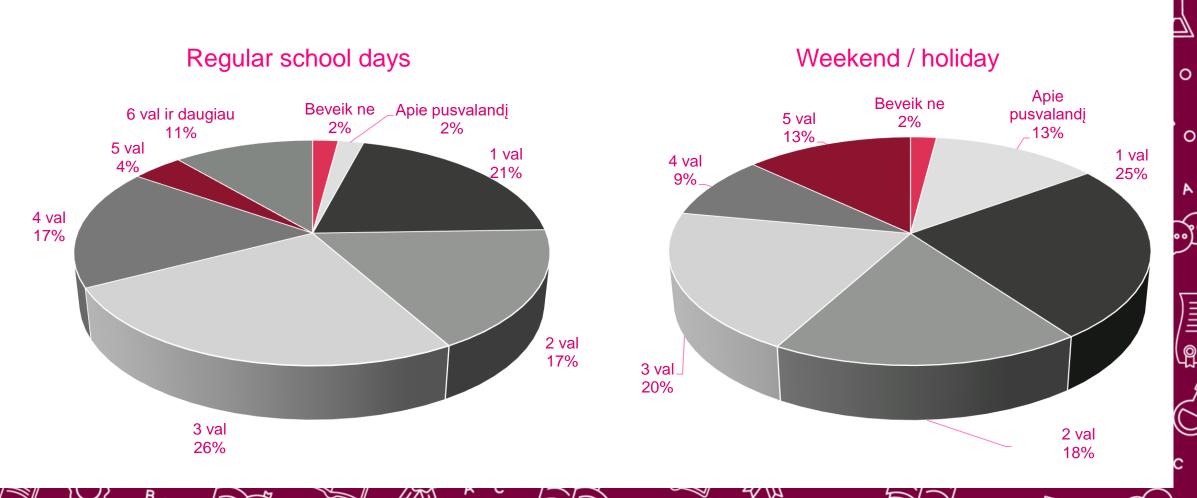




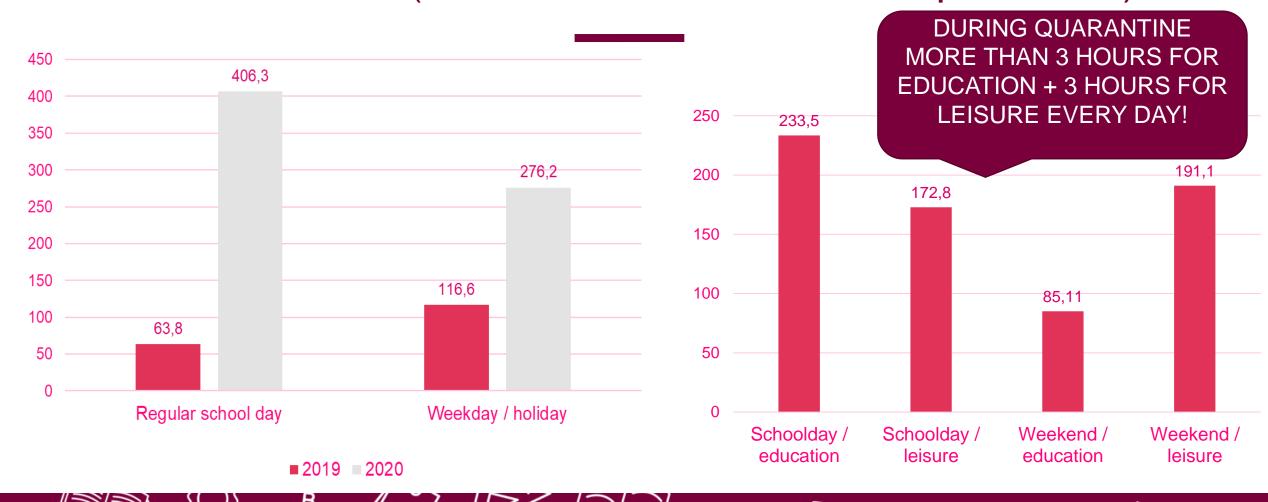
TIME ONLINE in 2020 (quarantine; note: only for education)



TIME ONLINE in 2020 (quarantine; note: only for leisure)



TIME ONLINE (In minutes, 2019 vs. 2020 quarantine)

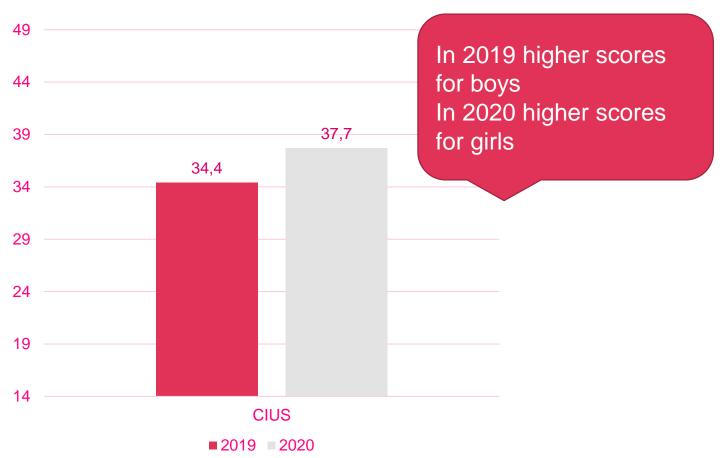




Results: CIU

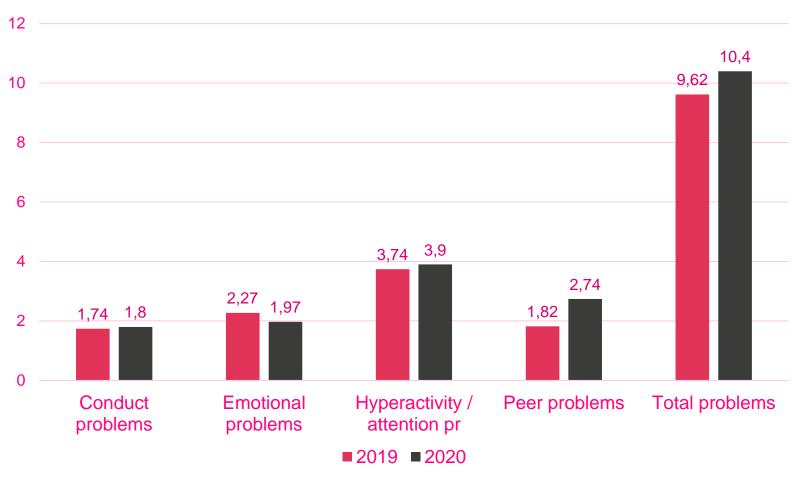
In year 2019 as compared to 2020 (quarantine)

MEAN SCORES OF CIUS (range 14 – 56)



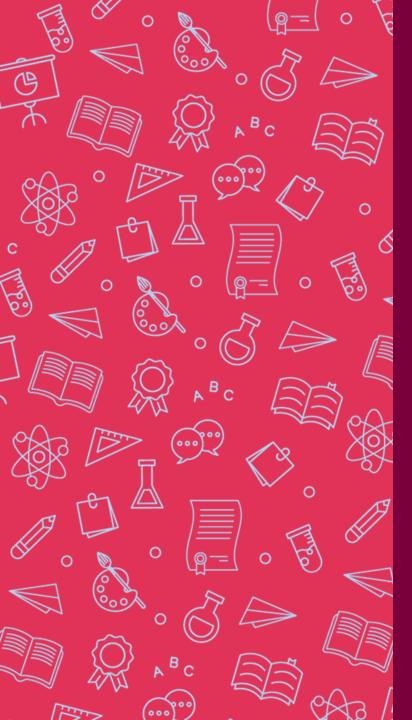
THE MAIN PROBLEMS
REPORTED BY PARENTS
DURING QUARANTINE:
EXCESSIVE SCREEN
TIME, DIFFICULTIES TO
CONTROL INTERNET USE,
CHILD'S PROBLEMATIC
INTERNET USE

Behavioural and emotional problems (SDQ mean scores)



During quarantine child's emotional wellbeing and behavior: improved – 20%; haven't changed - 59%; worsened - 21%





Risks for compulsive Internet use in preadolescents

Prediction of CIUS scores (2019; regressional analysis)

Time online

Total problems (SDQ)

Prosocial behavior

Gender (male) and family SES - additional risk factors (non-significant, although add to model improvement); $R^2 = 0.39$

Note: CIUS was well-predicted also by Internet use and total problems, but not by prosocial behavior, measured one year ago (in 2018); $R^2 = 0.23$

Prediction of CIUS (2020; quarantine)

Time online for leisure

Total problems (SDQ)

Prosocial behavior

 $R^2 = 0.47$

Time online for education – non-significant; child's gender – non-significant

ACTIVITIES ONLINE!



Not related to CIUS

- ✓ Using Internet for school assignements
- ✓ Obtaining information for one's interests
 - ✓ Talking to people (video charts)
 - ✓ Uploading something she/he created



Related to higher CIUS

Finding out how much something costs

Similar significant

correlations in

sample 1 (2019)

and sample 2

(2020)

- Online video gaming
- Visiting social networking sites
- Watching video clips, shows, etc.
- Listening to online music

CONCLUDING REMARKS

- Significant increase of Internet use and the higher compulsivity of Internet use during quarantine in children aged 10 to 11 years old
- "We should worry less about how much teenagers are online, and start asking what exactly they are doing online" (Gamito et al., 2016)
- YES:
- Time online for leisure activities, not for education, predicted co
- Compulsivity was related to video gaming, watching clips, netwo
- NO not only:
- Overall screen time related to health problems and somatic complains
- It is important to limit time online, to help regulate internet use
- Especially when a child has behavioural problems
- Less self-control and self-regulation
- To provide a child with good relationships and live activities...









Mediavaikai

THANKS FOR ATTENTION SPECIAL THANKS FOR RESEARCH PARTICIPANTS RESEARCH TEAM RESEARCH COUNCIL OF LITHUANIA

Roma.jusiene@fsf.vu.lt mediavaikai@gmail.com www.mediavaikai.lt