

# Problematic gaming risk among European adolescents: a cross-national evaluation of individual and socio-economic factors 

Sabrina Molinaro

Research Director, National Research Council of Italy ESPAD Coordinator

## AGENDA

01 BACKGROUND AND AIMS

## 02 METHODS

03 MEASURES AND DATA ANALYSIS

04 RESULTS

05 DISCUSSION AND CONCLUSIONS

06 ESPAD DATA ACCESS

07 FUTURE DIRECTIONS
$\bullet \bullet \bullet \bullet \bullet: ~$
$\bullet \bullet \bullet \bullet$

## Background <br> and aims $00000000000000 \quad 0000000$ 0000000 <br> $\begin{array}{ll}0 \\ 0 \\ 0 & 0 \\ 0 & 0\end{array}$


(8) Background and aims

Average number of days on games during the last 7 days


## Hours spent on gaming in the last 30 days



## ESPAD

## Self-perceived high risk of problems with gaming



## Problem gaming...what could be the negative consequences?



Anxiety and depressive symptoms


Dev Psychol. 2020 Jul:56(7):1335-1396. dol: 10.1037/devooooos99. Epub 2020 Apr 30.
Pathological video game symptoms from adolescence to emerging adulthood: A 6-year longitudinal study of trajectories, predictors, and outcomes
Sarah M Coyne ${ }^{1}$, Laur A ASockdale ${ }^{1}$, Wayne Warburton ${ }^{2}$, Douglas A Gentile ${ }^{2}$,
Chongming Vang ${ }^{1}$, Brett M Merrill
Affiliations + expand
PMID: 23352827 Dol: 10.1037/devooooos39
Lower self-esteem

Internet gaming disorder in children and adolescents: a systematic review




Sleep disturbance


Lower academic achievement





Bio-psychosocial factors of children and
(D) adolescents with internet gaming disorder: a systematic review
Nagisa Sugaya' $\oplus$., Tomohiro Shirasala?', Kenzo Takahash' and Hideyvik Kanda'
Problems with peers
Addiction ssama

Prevalence of internet gaming disorder in German adolescents: diagnostic contribution of the nine DSM-5 criteria in a state-wide representative sample
Florian Rehbein', Sören Kliem', Dirk Baier', Thomas MöBle' \& Nancy M. Petry ${ }^{2}$
Aggressive behaviour

## Problem gaming...what could be the protective factors?




EXPLORING CROSS-LEVEL INTERACTIONS BETWEEN INDIVIDUAL FAMILY VARIABLES AND COUNTRY-LEVEL FAMILY BENEFITS
$\because \because$
$\because \bullet \bullet \bullet \bullet$

- •••••
-0.


## - Methods



## DATA SET

| 30 EUROPEAN COUNTRIES |  |
| :---: | :---: |
| 88,998 PARTICIPANTS |  |
|  | $0$ |
| 49.2\% | 50.8\% |



## ESPAD AT A GLANCE

OULECIED DATAIN 2019

EARURESPAD DATA COUECTIONS

NON-ESPAD OUNTRIES


Since 1995

7 cross-sectional surveys

Last ESPAD Wave: 2019

More than 49 EU countries

Over 600,000 students

## Measures and data analysis

## VARIABLES - Dependent variable

Risk of Problem Gaming (PG) - Perceived Problem Scale (PPS)


## VARIABLES - Independent variables



## DATA ANALYSIS

Multi-level logistic regression analysis


Model I-Empty model
No explanatory variables

## Model II - Within-country model

Individual variables and high risk of PG linkage for individual I in country J

Model III - Between-country model Influence of country variables on high risk of PG

## －Results




20\% of participants had a high risk of PG

## Correlates of the risk problematic gaming (within-country model)*



## Correlates of the risk problematic gaming (between-country model)*



Living in a country which provides higher welfare family benefits (GDP) reduced the risk of PG

Conversely, economic inequality (Gini coefficient) is associated with a higher risk of PG
$\because \because:$
$\bullet \bullet \bullet$ •
-品咟
-00

# Discussion and conclusions 

PROBLEMATIC GAMING CAN BE CONSIDERED AN EMERGING ISSUE THAT NEEDS TO BE TAKE INTO ACCOUNT

BOTH FAMILY CHARACTERISTICS AND FUNCTIONING AND COUNTRY-LEVEL FACTORS HAVE A ROLE IN PROBLEMATIC GAMING PHENOMENON

TO DATE, BOYS ARE MORE INVOLVED IN THIS KIND OF RISKY BEHAVIOUR COMPARED TO GIRLS

...PAY ATTENTION!
DESPITE GIRLS ARE LESS INVOLVED IN PROBLEMATIC RISK OF PROBLEMS WITH SOCIAL MEDIA USE

Self-perceived high risk of problems with social media use

## GAMING, THEY ARE MORE SENSITIVE REGARDING HIGH


data.espad.org

IN ORDER TO PROVIDE USEFUL DATA FOR THE DEVELOPMENT OF EFFECTIVE PREVENTIVE INTERVENTIONS AND PROGRAMS.
IT IS NEEDED TO TAKE INTO ACCOUNT
BOTH FAMILY CHARACTERISTICS AND COUNTRY-LEVEL FACTORS

data.espad.org

## ESPAD

European School Survey Project on Alcohol and Other Drugs



ESPAD

(a) ESPAD $\quad$ seasen

## European School Survey Pr Alcohol and Other Drugs

The European School Survey Project on Alcohol and Other Drugs (E: project conducted by research teams in more than 40 European coi to collect comparable data on substance use and other forms of ris old students in order to monitor trends within, as well as between, f seven waves of data collection were conducted across 49 Europear
This website contains data from ail the ESPAD survey waves. You can browse through the data
visualise and analyse them.

(6)(UNTIL 2015)
$₹$ Anver Filten


Found 25 results matching the term Cannabis, avallability


data.espad.org



## Welcome to ESPAD

ESPAD is a collaborative effort of independent research teams in more than forty European countries and the largest cross-national research project on adolescent substance use in the world.
The overall aim with the project is to repeatedly collect comparable data
on substance use among 15-16 year old students in as many European
countries as possible.

## Comeral intareatian <br> Trinly <br> cenentisho ate

## Ansentiont

Len Nume**
$\because \because$
$\because \because \because \bullet:$
00000
-0.

## - WHAT WE LEARNED

TO REDUCE NATIONAL ECONOMIC INEQUALITIES AND TO SPEND ON FAMILY ASSISTANCE CAN HELP PREVENTING ADOLESCENTS FROM GAME-RELATED PROBLEMS

PROMOTING SOCIAL PROTECTION MEASURES AND PARENTS' EDUCATION ABOUT THE INFLUENCE OF FAMILY ON RISKY
BEHAVIOURS CAN REPRESENT THE GOAL OF FUTURE


PREVENTIVE PROGRAMS

## ESPAD

```
Received: 30 June 2021 Accepted: 31 January 2022
DOI: 10.1111/add.15843
RESEARCHREPORT
ADDICTION
```


## Problematic gaming risk among European adolescents: a cross-national evaluation of individual and socio-economic factors






```
Sabrina Molinaro }\mp@subsup{}{}{1}
```

```
Sabrina Molinaro }\mp@subsup{}{}{1}
```

SSA

## Thank you for your attention :)

## Acknowledgments:

Marina Baroni, CNR Sonia Cerrai, CNR<br>Elisa Benedetti, CNR<br>Emanuela Colasante, CNR<br>Erika Pivetta, UNIPD<br>Natale Canale, UNIPD

A special thanks goes to all members of ESPAD who collected the national data and to the funding bodies who supported the international coordination of ESPAD: the Italian National Research Council and the EMCDDA.

