



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

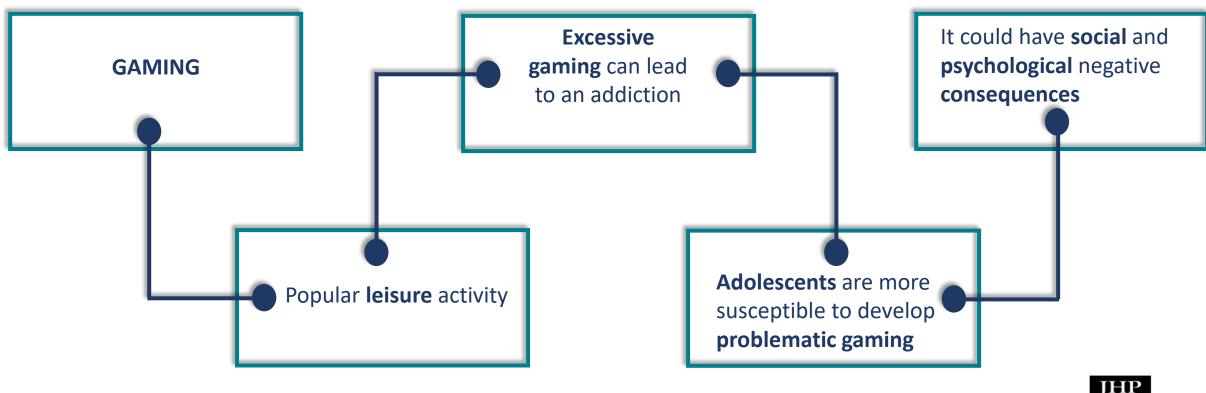




0 0 0 0







Maladaptive player-game relationships in problematic gaming and gaming

Contents lists available at ScienceDirect

Clinical Psychology Review

journal homepage: www.elsevier.com/locate/clinpsychrev

disorder: A systematic review



Daniel L. King^{a,b,*}, Paul H. Delfabbro^{a,b}, Jose C. Perales^c, Jory Deleuze^d, Orsolya Király^e, Elfrid Krossbakkenf, Joël Billieuxg,h

Review Article

Problematic gaming behaviour and health-related outcomes: A systematic review and meta-analysis

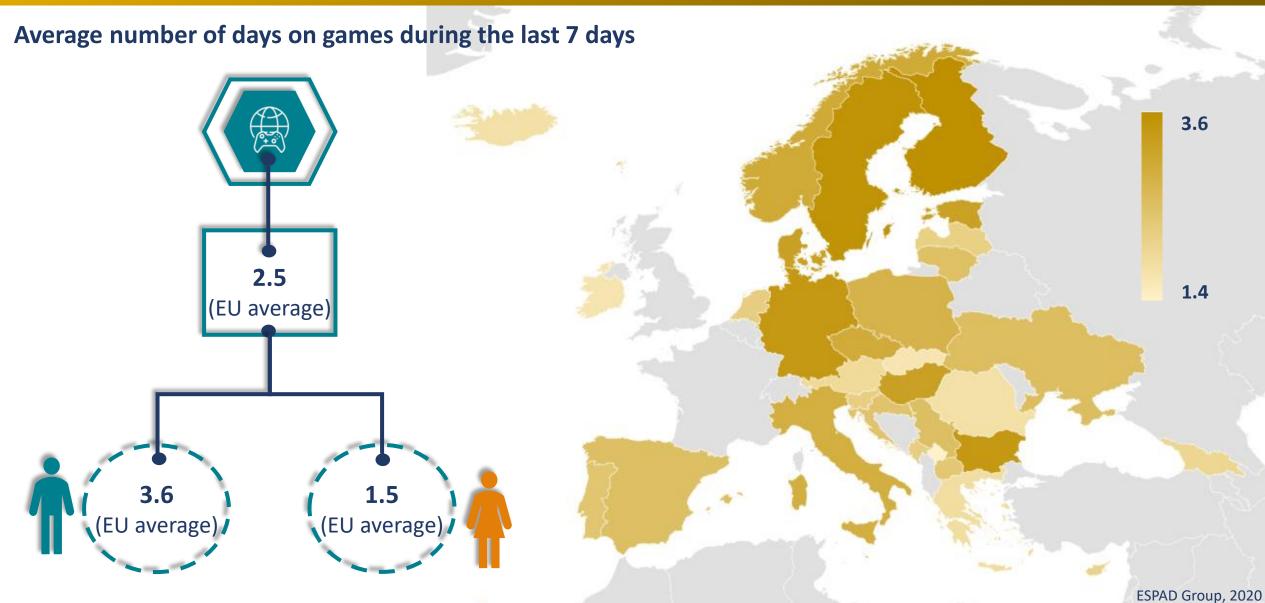
Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/1359105317740414 SSAGE

Journal of Health Psychology 2020, Vol. 25(1) 67-81

Niko Männikkö^I , Heidi Ruotsalainen², Jouko Miettunen³, Halley M Pontes⁴ and Maria Kääriäinen²



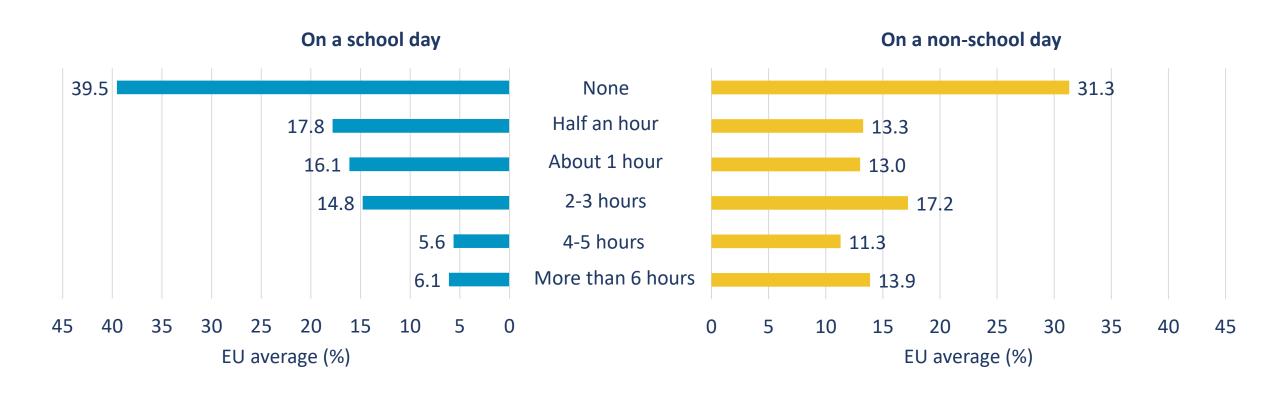








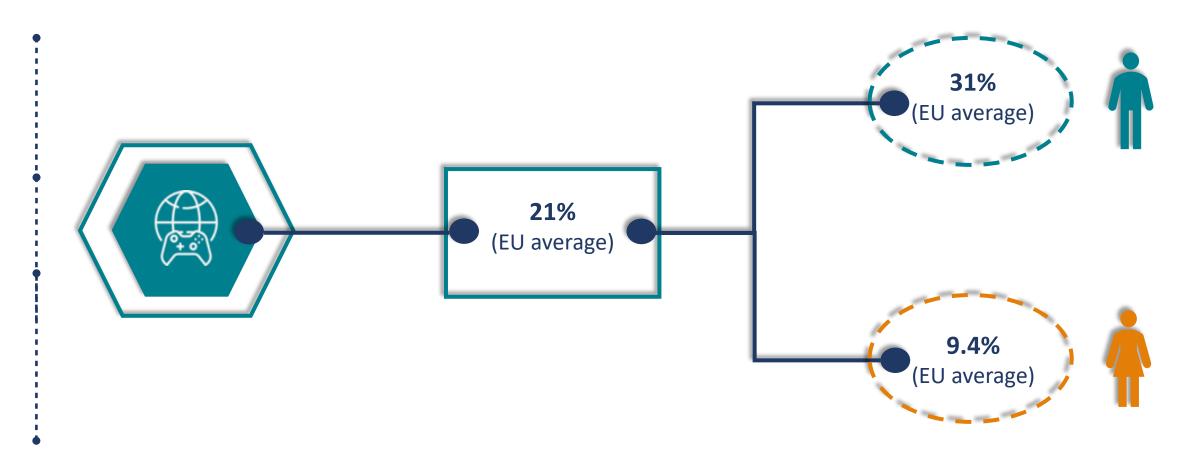
Hours spent on gaming in the last 30 days







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):1385-1396. doi: 10.1037/dev0000939. 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 , Laura A Stockdale 1 , Wayne Warburton 2 , Douglas A Gentile 2 , Chongming Yang 1 , Brett M Merrill 3

Affiliations + expand

PMID: 32352827 DOI: 10.1037/dev0000939



Lower self-esteem

INVITED REVIEW

Internet gaming disorder in children and adolescents:
a systematic review

FRANK W PAULUS¹ (3) | SUSANNE OHMANN² | ALEXANDER VON GONTARD¹ | CHRISTIAN POPOW²

1 Department of Child and Adolescent Psychiatry, Saarland University Hospital, Homburg, Germany, 2 Department of Child and Adolescent Psychiatry, Medical University of Vienna, Acadia.



Lower academic achievement

BioPsychoSocial Medicine

REVIEW

Open Access

Bio-psychosocial factors of children and adolescents with internet gaming disorder: a systematic review

Nagisa Sugaya^{1*}, Tomohiro Shirasaka², Kenzo Takahashi³ and Hideyuki Kanda⁴



Problems with peers

Addiction

SSA SOCETY FOR THE

Prevalence of internet gaming disorder in German adolescents: diagnostic contribution of the nine DSM-5 criteria in a state-wide representative sample

Florian Rehbein¹, Sören Kliem¹, Dirk Baier¹, Thomas Mößle¹ & Nancy M. Petry

Aggressive behaviour



Sleep disturbance



ESPAD

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



Psychosocial wellbeing



Revie

Multinational comparison of internet gaming disorder and psychosocial problems versus well-being: Meta-analysis of 20 countriesth



Cecilia Cheng^{a,*}, Mike W.-L. Cheung^b, Hsin-yi Wang^a

^a The University of Hong Kong, Hong Kong
^b National University of Singapore, Singapore



Parental monitoring

Current Addiction Reports (2020) 7:365–386 https://doi.org/10.1007/s40429-020-00320-0

TECHNOLOGY ADDICTION (J BILLIEUX, SECTION EDITOR)

Parental and Family Factors Associated with Problematic Gaming and Problematic Internet Use in Adolescents: a Systematic Literature

Philip Nielsen 1 · Nicolas Favez 1 · Henk Rigter



Family environment



School environment

Risk and protective factors of Internet gaming disorder among Chinese people: A meta-analysis

Yinan Jio, Margaret Xi Can Yin, Anna Yan Zhang and Daniel Fu Keung Wong



Social support

Int J Ment Health Addiction (2019) 17:845–858 https://doi.org/10.1007/s11469-018-9887-7

ORIGINAL ARTICLE

A Stress-Coping Model of Problem Online Video Game Use

Nick Maroney¹ · Benedict J. Williams¹ ·
Anna Thomas² · Jason Skues¹ · Richard Moulding³



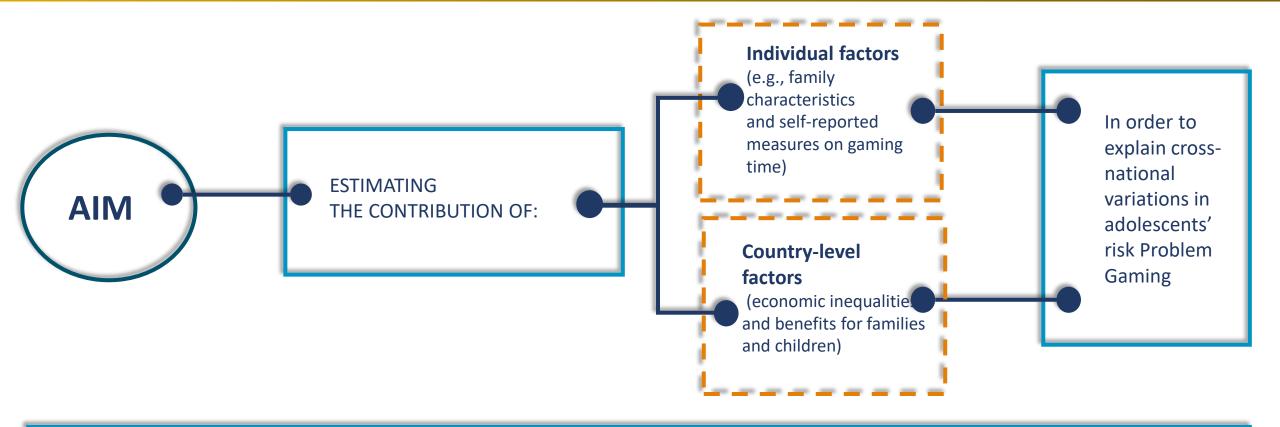
Coping style



(CrossMark







EXPLORING CROSS-LEVEL INTERACTIONS BETWEEN INDIVIDUAL FAMILY VARIABLES AND COUNTRY-LEVEL FAMILY BENEFITS

• Methods



DATA SET



ESPAD

ESPAD AT A GLANCE



Since **1995**

7 cross-sectional surveys

Last ESPAD Wave: 2019

More than 49 EU countries

Over 600,000 students

Measures and data analysis

0 0 0 0

00000000 00000

0000 00000 0000000



Measures and data analysis



VARIABLES – Dependent variable

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

"I think I spend way too much time playing computer games"

"I get in a bad mood when I cannot spend time on computer games"

"My parents tell me I spend way too much time on computer gaming"

Low Risk of PG

or

High Risk of PG

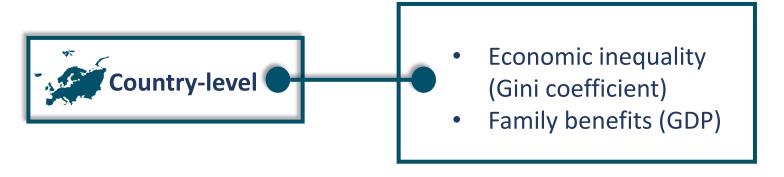


Measures and data analysis



VARIABLES – Independent variables





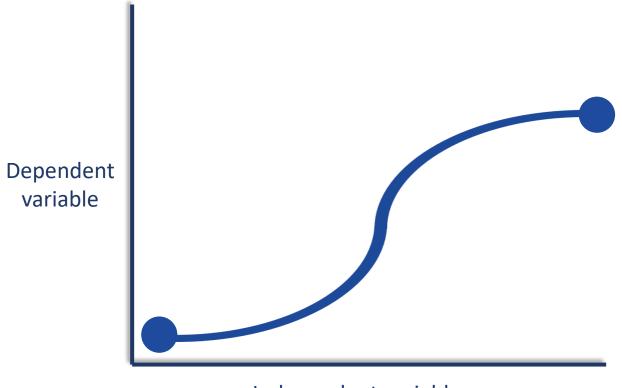


Measures and data analysis



DATA ANALYSIS





Independent variable

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

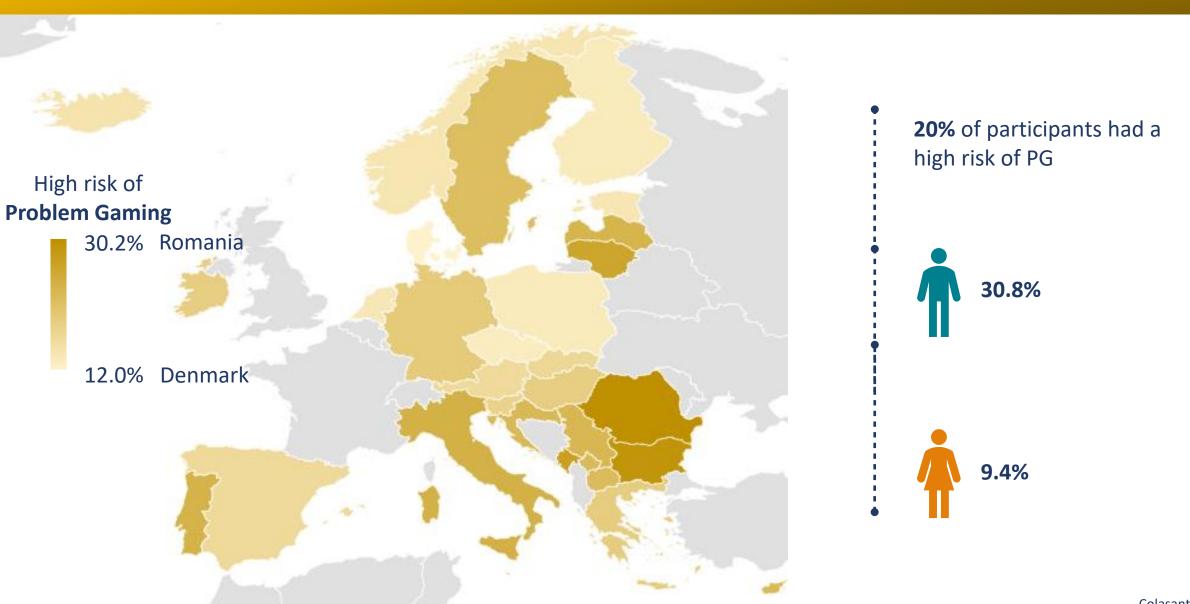
Influence of country variables on high risk of PG

• Results





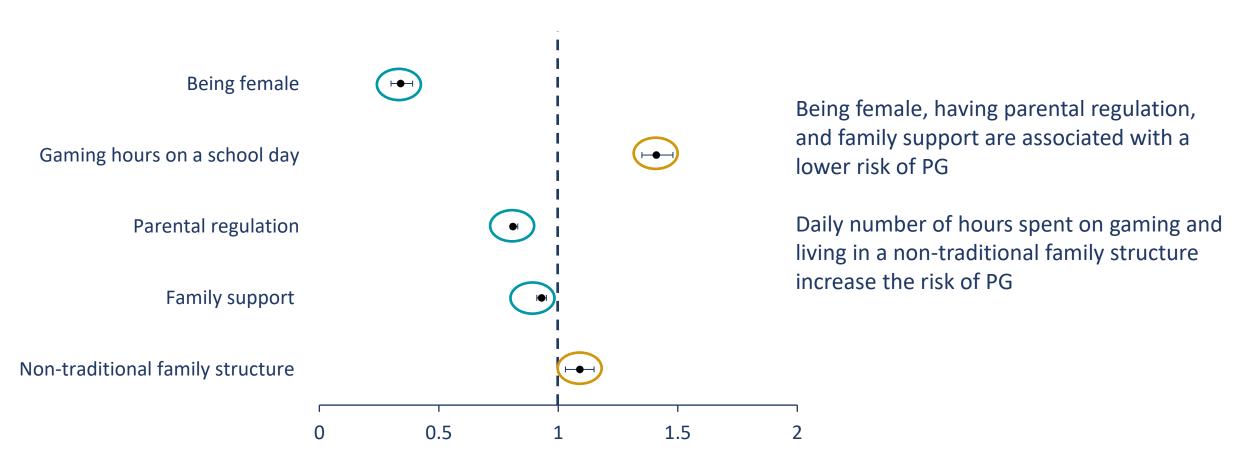
ESPAD







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

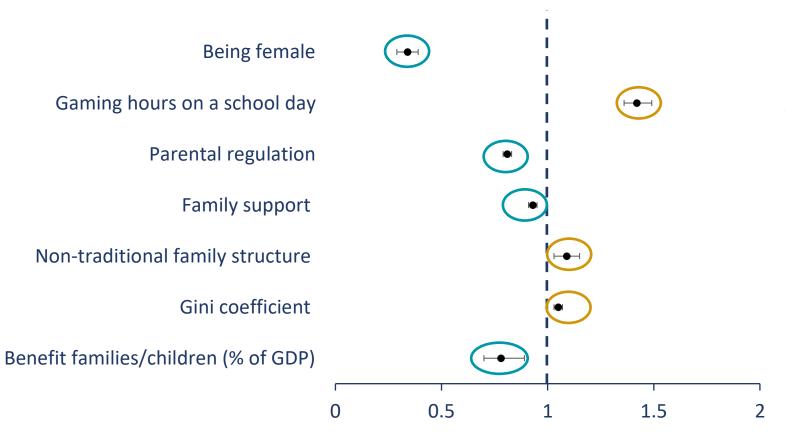


^{*} Only **significant** associations





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

^{*} Only **significant** associations

• Discussion and Conclusions

0 0 0 0

00000000 00000



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

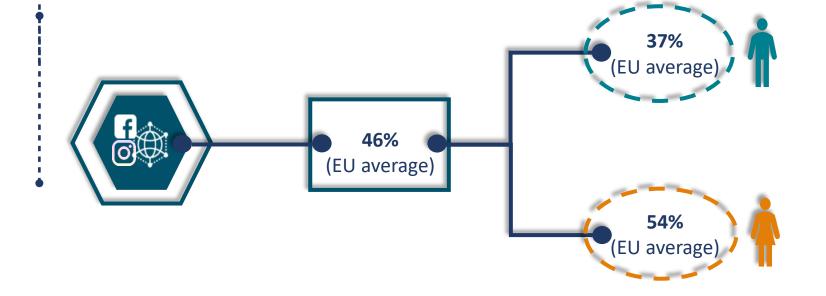




...PAY ATTENTION!

DESPITE GIRLS ARE LESS INVOLVED IN PROBLEMATIC GAMING, THEY ARE MORE SENSITIVE REGARDING HIGH RISK OF PROBLEMS WITH **SOCIAL MEDIA USE**

Self-perceived high risk of problems with social media use





400000

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







European School Survey Project on Alcohol and Other Drugs

SPAD data access

0000

000

00000000 00000



ESPAD

European report

Additional tables





www.espad.org



www.emcdda.europa.eu







European report

ESPAD Report
2019
Results from the European
School Survey Project on
Alcohol and Other Drugs
The ESPAD Group

Additional tables

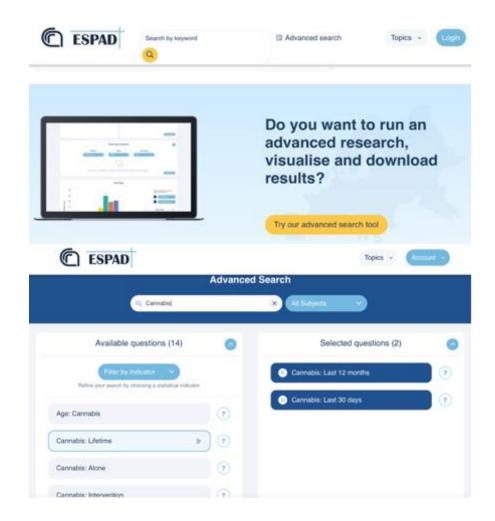
data.espad.org

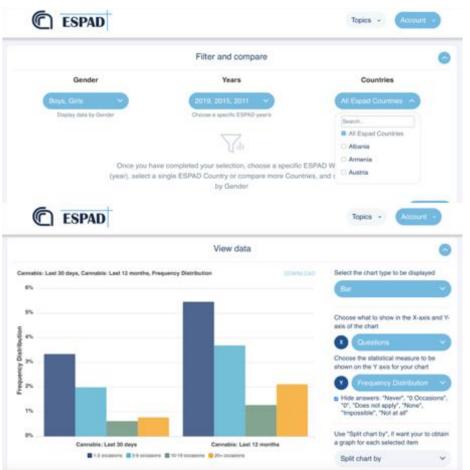












data.espad.org







Platform for ESPAD Trend DB data consultation

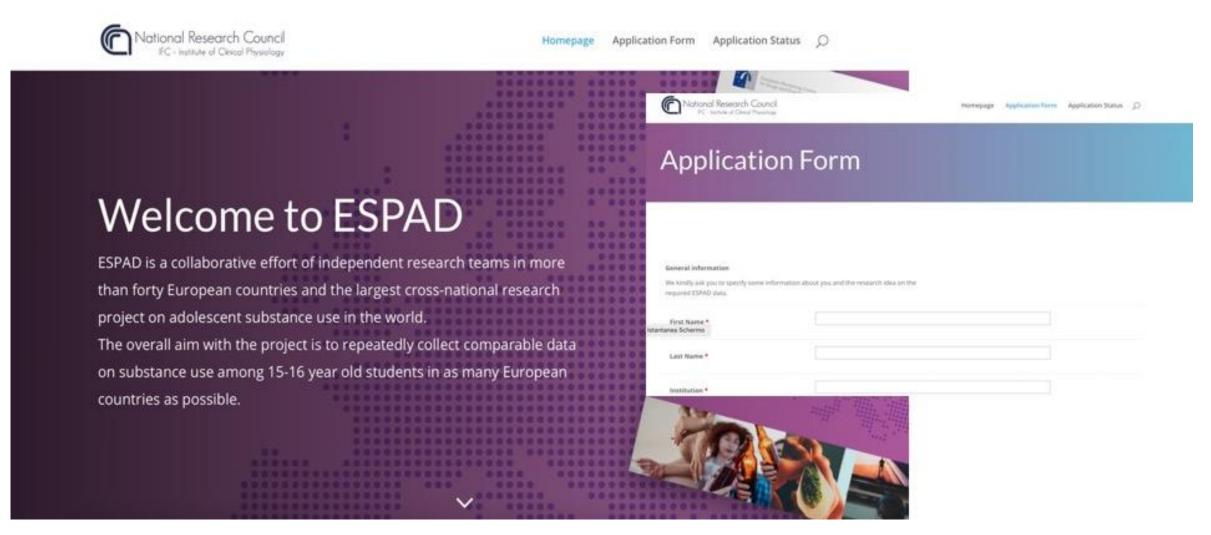






ESPAD project / Platform for application









000000 00000000000000

0000 00000 0000000

00000000 0000



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

RESEARCH REPORT ADDICTION SSA

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

```
Emanuela Colasante<sup>1</sup> | Erika Pivetta<sup>2</sup> | Natale Canale<sup>2</sup> | Alessio Vieno<sup>2</sup> | Claudia Marino<sup>2</sup> | Michela Lenzi<sup>2</sup> | Elisa Benedetti<sup>1</sup> | Daniel L. King<sup>3</sup> | Sabrina Molinaro<sup>1</sup>
```







Thank you for your attention:)

Acknowledgments:

Marina Baroni, CNR Sonia Cerrai, CNR Elisa Benedetti, CNR Emanuela Colasante, CNR Erika Pivetta, UNIPD 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.









