





Mental health and COVID-19 : a systematic review in youth population

<u>Camille DIEU</u>, Anthony MAUROY, Mandy ROSSIGNOL, Justine GAUGUE Department of Clinical Psychology, University of Mons (UMONS), Belgium

1. Introduction

On March 11 2020, the World Health Organization (WHO) declared COVID-19 a global health pandemic^[1]. Numerous studies have assessed the psychological impact of the covid crisis on the population, especially children and young people [2] [3].

Objective : To conducte a systematic review to determine how different facets of Covid-19 (e.g., social distancing, online learning, fear of Covid-19 infection...) have an impact on youth mental health.

2. Method

PRISMA method^[4]

Databases : PsycInfo, PsychArticles, Science Direct, PubMed and Wiley Library

Inclusion criteria :

- Dependant variables : depression, anxiety, stress, PTSD, behavioural symptoms (internalizing and externalizing symptoms) & psychological distress
- Publication after December 2019
- Participants aged 0-25 years
- Original articles or publication in a peer-reviewed scientific journal



3.2 *Preliminary results*

Impact of Covid-19 pandemic on youth mental health by age groups:

5-12 y

12-18 y

18-25 y

Percentage of appearance of the dependent variables in studies:

N=38



(Total number of articles)	(n=16)	(n=7)	(n=14)	(n=13)
Depression (n=23)	+	++	+++	+++
Anxiety (n=22)		+	++	+++
Stress (n=8)	ND	ND	++	
Internalizing symptoms (n=6)	+	+	+++	ND
Externalizing disorders (n=6)	+++	++	++	ND
Psychological Distress (PD) (n=4)	ND	ND	ND	+++
PTSD (n=0)	ND	ND	ND	ND

0-5 y

+ : slight increase, ++ : moderate increase, +++ : high increase, ND : no data

• **Risk factors:** Low socio-economic level, being a student, being a girl, being financially impacted by Covid-19 & having a pre-existing mental disorder^[5]

- **Protective factors:** Establishing family routines & social support^[6]
- Impact of economical pressure generated by Covid-19 crisis on anxiety across all ages

• Except for preschoolers, **girls** report more psychological symptoms than boys • Psychological symptoms appear to be mostly caused by uncertainty about **online** assessment methods in students, social distancing in adolescents and concerns about Covid-19 infection in school-aged children

4. Discussion

Results to be interpreted with caution :

• Gender bias: Higher scores among boys for hetero-reported techniques (preschoolers). Boys tend to "externalize" mental health issues that may be more directly observable whereas girls are more likely to "internalize" emotional symptoms of anxiety and depression^{[1],}

• Developmental-age bias: The results are consistent with the characteristic disorders found at different stages of development. Children develop many externalized

symptoms at pre-school age to internalize their difficulties as they grow. Adolescents in particular need of social contact and interpersonal relationship on their development^[7].

• **Prolongation and tracks for the future**: To study the impact of PTSD in this kind of crisis involving insolation

To develop and to provide tools to increase stress resilience in families



References

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Contact : Camille.dieu@student.uclouvain.be