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Global Mental Health Impact of the COVID-19 Pandemic

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International 100K Cohort Consortium



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Project Overview

- The COVID-19 pandemic has brought an unprecedented set of challenges impacting the mental health of populations around the world.
- The IHCC COVID-19 Mental Health & Behavioral Impact Scientific Working Group is leveraging the unique platform of the IHCC consortium to address pressing questions related to COVID-19 and mental health.
- Harnessing the power of 19 (others pending) cohorts (n= 1.4 m) this three site project aims to:
 - Catalogue and categorise all cohorts according to purpose
 - Harmonise a set of domains and variables for cross-cohort investigations
 - Conduct cross-site and cross-cohort analyses to address core scientific questions

Data Corpus

Cohort	Country	Baseline size
All of Us	USA	426,000
Brazilian High Risk Cohort Study	Brazil	
ELSA Brazil	Brazil	2,007
ELSA UK	UK	12,099
FinnGen	Finland	320,000
Generation Scotland	Scotland	20,128
PsycheMERGE	USA	
MGB Biobank	USA	130,000
SAPRIN	South Africa	50,000
UKB	UK	502,491
University College of London (federated collaboration)	UK	25,538
HRS	USA	20,000
KLOSCAD (Korean Longitudinal Study on Cognitive Aging and Dementia)	South Korea	6,818
Einstein Aging Study	USA	2,200
HELIAD, and 2 other studies from Greece	Greece	1,943
São Paulo Ageing & Health Study	Brazil	2,072
Monongahela-Youghiogheny Healthy Aging Team (MYHAT)	Australia	1,982
Invece.Ab	Italy	1,321
Irish Longitudinal Study of Ageing (TILDA)	Ireland	6,000
Total		1,530,599





Trajectories of common mental disorders before and during the Covid-19 pandemic (ELSA-Brazil)

D Fatori & A Brunoni et al., São Paulo (submission underway)

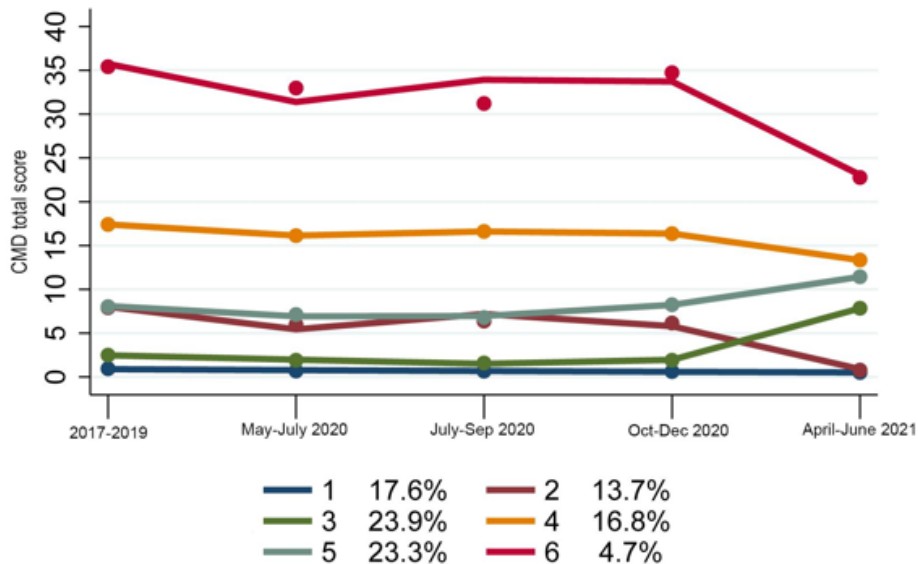
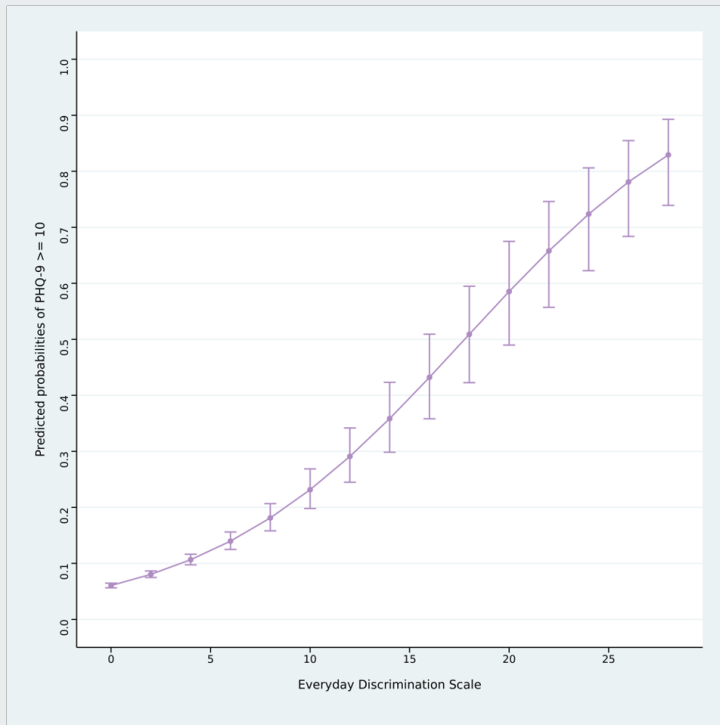


Figure 1. Trajectories of common mental disorders before and during the COVID-19 pandemic (N=2,705).



Effect of perceived discrimination due to race and ancestry on depressive symptoms during the COVID-19 pandemic: a repeated-measures study in the All of Us Research Program

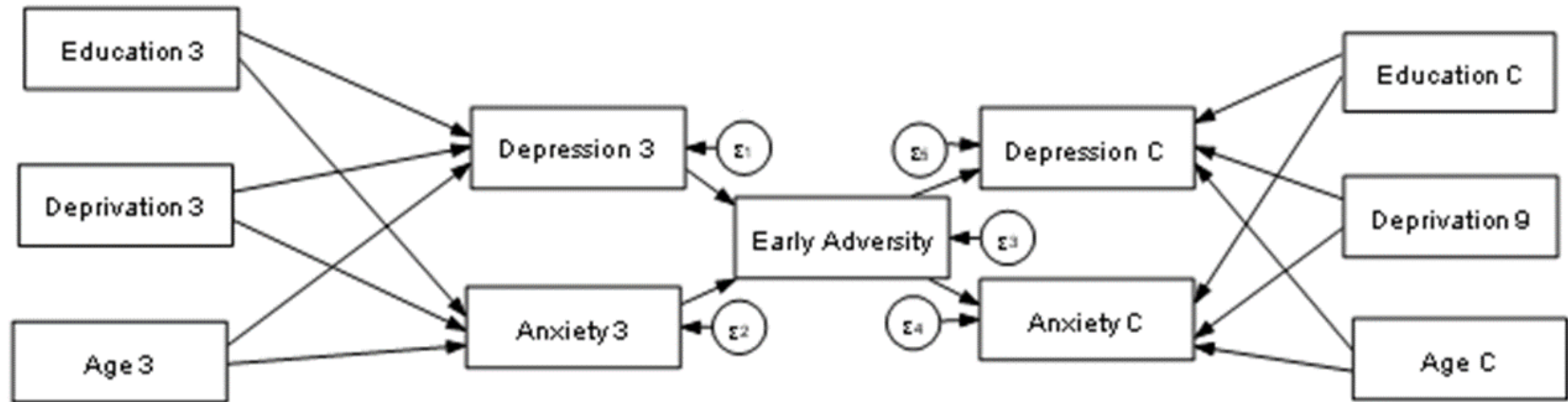
Y Lee & J Smoller et al., Harvard (to be submitted)





Biopsychosocial risk factors for pre- and pandemic psychiatric disorders in ELSA UK, ELSA Brazil, TILDA & HRS

S Bauermeister et al., Oxford (in progress)





Harmonisation of data domains and variables for investigating the global mental health impact of Covid-19

J Bauermeister et al. (in progress)

- 1 Age (banded)
- 2 Gender (0,1)
- 3 Ethnicity (coded)
- 4 Education (coded levels)
- 5 Living alone (0,1)
- 6 Living with children (0,1)
- 7 Living area (coded type)
- 8 Annual household income (<,> 30k)
- 9 Diagnosed mental health conditions (0,1)
- 10 Diagnosed physical health conditions (0,1)
- 11 Self report memory complaints
- 12 Depression (PHQ-9)
- 13 Anxiety (GAD-7)
- 14 DASS (stress)
- 15 Life satisfaction (ONS wellbeing)
- 16 Loneliness (UCLA-3)
- 17 Exercise (self report, banded)
- 18 Face to face contact (self report, banded)
- 19 Any covid data (0,1)
- 20 Cognition memory (score)
- 21 Global cognition (MMSE/MoCA)
- 22 Discrimination
- 23 Economic activity (coded levels)
- 24 Country
- 25 Smoking (banded)
- 26 Alcohol consumption (banded)
- 27 Substance use (0,1)
- 28 Family disease history
- 29 Disabilities
- 30 Digital behaviour
- 31 Any diagnosed psychosis
- 32 Personality
- 33 Socioeconomic status
- 34 Health in general



Presentations

1. **Abstract submitted**: ADAA (Anxiety & Depression Conference) Denver USA
March 2022: 'Mental health consequences of perceived discrimination during the Covid-19 pandemic'.(Lee et al.)
2. **Presentation (oral)** Centre for Ageing Research (C4AR) Lancaster UK
(online) October 2021: 'Biopsychosocial risk factors for pre- and pandemic psychiatric disorders in ELSA UK ' (S Bauermeister)
3. **Presentation (oral)** Dementias Platform UK and the Korea Brain Research Institute (online) seminar October 2021: "Biopsychosocial risk factors for pre- and pandemic psychiatric disorders in ELSA UK' (S Bauermeister)



Conclusion

The project continues to attract global interest:

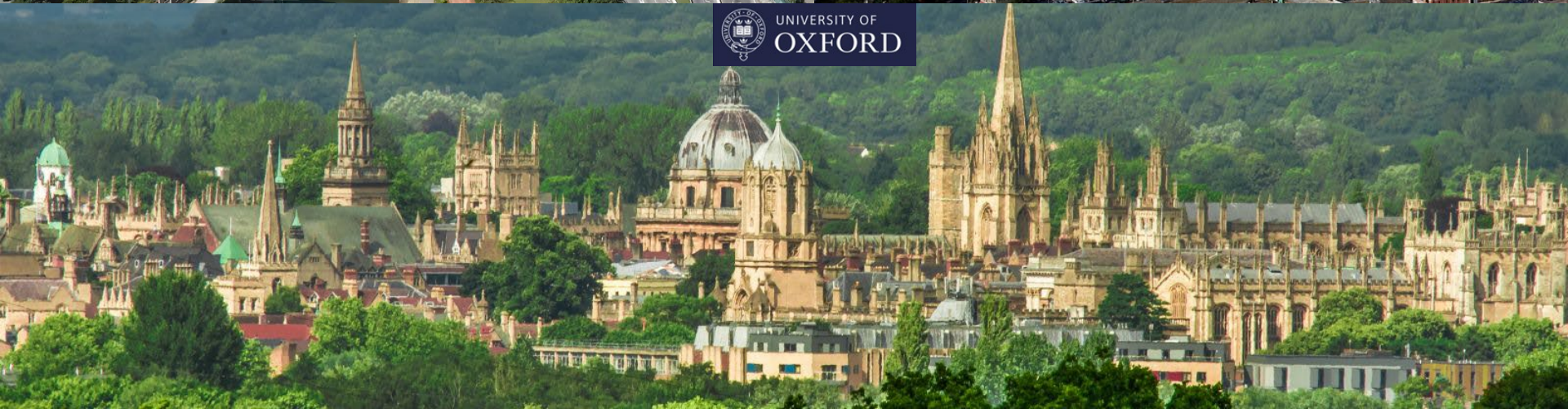
- Collaboration has been initiated with University College London Covid-19 Social Study and the ELSA UK cohort (resilience and discrimination)
- A proposal has been submitted to collaborate with a Covid-19 specific platform investigating: 'Effect of life course stressors and cognitive status on mental health outcomes during the Covid-19 pandemic' (5 cohorts)
- Collaboration initiated with ELSA UK, ELSA Brazil, TILDA, HRS to investigate cross-cultural effects of discrimination on mental health during Covid-19



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