

Impact of COVID-19 on mental health, inequalities & vulnerable groups

<u>Pan-European Response to the ImpactS of COVID-19 and future</u> <u>Pandemics and Epidemics PERISCOPE</u>

HORIZON 2020 PROJECT

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PERISCOPE – Multidisciplinary research Start: Nov 2020, - 36 months, 10 M €

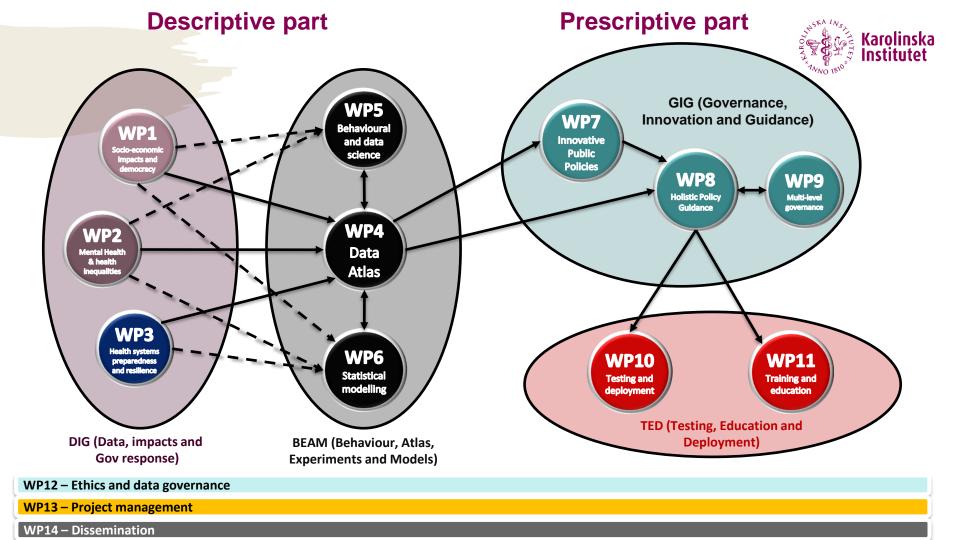
- Consortium of 32 European institutions PI University of Pavia
- Investigates impact of COVID-19 on:
 - Behavior
 - Health
 - Economy
- AIM: Develop solutions and provide holistic policy guidance to increase European actorness, for future pandemics

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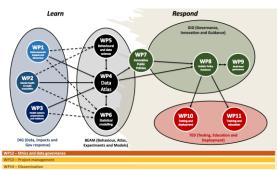






PERISCOPE - Early goals

- Gather data on broad impacts of COVID-19 in order to develop comprehensive, user-friendly, openly accessible COVID Atlas
- Reference tool for researchers and policymakers
- Dynamic source of information to disseminate to the general public
 - Use AI to analyze data on health, economy & lockdown measures (e.g. CoronaNET) with high temporal resolution







PERISCOPE goals

- Identify successful practices & approaches
- Scale up at pan-European level for better containment of the pandemic and its related socio-economic impacts



PERISCOPE Innovation Challenge will be preceded by an analysis of the policy gaps and unmet societal needs, which will be based on the observation of the landscape of existing practices in the COVID Atlas.





PERISCOPE goals

 Develop holistic policy guidance for policymakers at all levels of government, in order to enhance Europe's preparedness for future similar events and proposed reforms in the multi-level governance of health



Systematic literature review



What can be learnt from the current as well as previous pandemics, epidemics, and economic crises?

Inclusion criteria:

- \rightarrow Population: General population and/or any specific populations.
- → Exposure: COVID-19 or pandemics and epidemics similar to COVID-19 (MERS, SARS, the swine flu, or economic crises).
- → Comparator: Pre-pandemic/epidemic or pre-economic crisis measures or measures from unaffected geographical areas.
- → Outcome: Mental health outcomes
- → Types of study: Longitudinal cohort & repeated cross-sectional studies allowed for direct comparison between exposed & unexposed populations.





Results: literature review

- Systematic review: 174 studies assessing mental health impacts
 - \rightarrow COVID-19 pandemic (87 studies),
 - \rightarrow 2008 economic crisis (84 studies)
 - \rightarrow SARS epidemic (3 studies).
- Increased rates of affective disorders -> due to f risk factors:
 - Unpredictability & uncertainty, loss of income, inactivity, limited access to basic services, increased access to food, alcohol, and online gambling, and decreased family and social support.





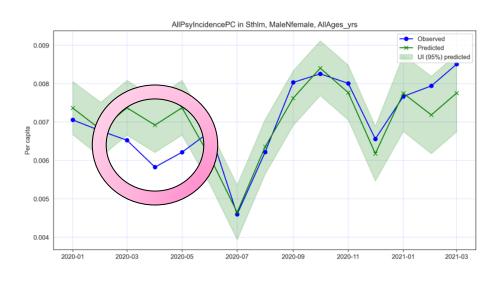
Literature review results cont.

- Mental health care utilization no increase, as after economic crisis 2008
 - \rightarrow Why not?
 - Regulations on travel & quarantine having -> mental health care visits becoming more difficult & impractical ?
 - Economic crises (e.g. 2008) different effect on mental health due to
 - → unemployment, indebtedness, precarious working conditions, inequalities, lack of social connectedness & housing instability
- Suicide rates COVID-19: decreased or remained unaltered (short follow up) in contradiction to studies on the economic crisis in 2008
- However: Risk-factors for suicides aggravated -> Long term increase?

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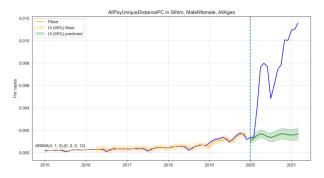
Stockholm, mental health care utilization, primary care

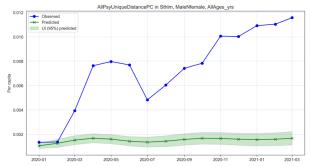
Spring 2020, initial dip March - May





Telemedicine: 4-6 times increase vs pre-pandemic







Worklife & mental health: Pre- & post Covid-19 related restrictions

- Dramatic increase in distancework spring 2020
 - → Approx 40% working from home (5-7% pre-pandemic, Statistics Sweden, 2021)
- Population-based longitudinal study working conditions, habits & mental health in working adults pre- & post Covid-19 related restrictions:
 Approx. 5000 gainfully working adults in same occupation 2018-2020
 - General increase in job insecurity & depressive symptom
- Among occupational groups able to distancework
 - \rightarrow Several positive changes observed:
 - → Increased work-family balance, getting enough rest & sleep,
 - \rightarrow less cognitive problems, less stress
 - → But also this group: increase in depressive symptoms





Inequalities & vulnerable groups: Apart Together survey & Ageism

- Refugees & migrants suffer more from consequences of the COVID-19 pandemic & preventive measures
 - → Living in the street: less likely to seek medical care in case of (suspected) COVID-19-symptoms due to e.g. fear of deportation
 - \rightarrow Ageism high mortality rates, isolation





How to improve preparedness & sustainability ?



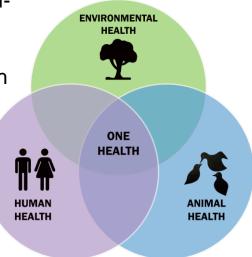
Key issue in Multilevel Governance Analysis in the PERISCOPE project





What is One Health?

- Acknowledges the interconnection between human-animalenvironmental health
- A collaborative, multisectoral, and transdisciplinary approach on multiple levels
- Started as "One Medicine" → One Health
- Large focus on zoonotic diseases: 3 out of every 4 new emerging infectious disease from animals
- Anthropocentric drivers of emerging infectious diseases (e.g. Habitat destruction, demand for animal protein)







One Health as a relevant framework for several other matters

- Antibiotic resistance
- Infrastructure, e.g access to green spaces
- Climate change, environmental degradation, exposure to toxic substances
- Biological and cultural diversity (combating sixth mass extinction)
- Occupational health, mental health, healthy aging
- Non-infectious (lifestyle-related) diseases
- Equality/equity and human intragroup relations



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WHO — One Health

We can only prevent future pandemics with an integrated One Health approach to public health, animal health & the environment we share...

One Health must be about **more than zoonoses**.

We cannot protect human health without considering the impact of human activities that disrupt ecosystems, encroach on habitats, and further drive climate change



Current status of One Health

- Narrow view with an unbalanced focus between One health issues in animal, human and environmental health:
 - \rightarrow Anthropocentric bias
- Lack of clarity, direction and accountability
- Low level of One Health-understanding amongst the public, professionals in medicine, veterinary & environmental science

Chiesa F, et al., (2021) A Survey on One Health Perception and Experiences in Europe and Neighboring Areas. Front. Public Health 9:609949. Destoumieux-Garzón D, et al.,(2018) The One Health Concept: 10 Years Old and a Long Road Ahead. Front. Vet. Sci. 5:14. Lerner H and Berg C (2017) A Comparison of Three Holistic Approaches to Health: One Health, EcoHealth, and Planetary Health. Front. Vet. Sci. 4:163.





Research questions and tasks

- Mapping One Health literacy amongst key policy makers & actors
- Do we need to develop/go beyond existing framework, by including human-non-human relations – widening the circle of care?
- Address our inner deep leverage points?
- Increased transparency & accountability: key issues from Multilevel Governance Analysis
- Possibility to create upstream change / systemic transformation?

