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Experiences and projections for the future of research, training and other academic activities: Will it be the same?

P. Mohr^{1,2}

¹Psychiatric Clinic, 3rd Faculty of Medicine, Charles University, Praha, Czech Republic and ²Clinical Dept., National Institute of Mental Health, Klecany, Klecany, Czech Republic
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The global SARS-CoV-2 pandemic with subsequently imposed restrictions and lockdowns also radically disrupted academic life. Many research projects involving recruitment of human subjects were abruptly put on hold, educational activities have moved into online trainings, scientific meetings have been transformed into virtual events. Social distancing does not restrict only everyday human contact but also limits direct exchange of clinical, educational, and research experiences, professional and academic networking, sharing ideas. Besides all the drawbacks, does the current situation also bring any advantages? Every challenge results in new opportunities. Although the online congresses will most likely never fully replace real-life experience, it was found that many work meetings can be held more efficiently via online communication. Saving time, cutting costs of travel and accommodation, plus other expenses, may help to allocate limited resources where needed. Similarly, while practical medical education and training cannot be substituted for remote broadcasting, many theoretical presentations can. More importantly, epidemic of COVID-19 is a unique opportunity for mental health research, to study individual and population consequences of the virus, its impact on psychiatric patients. It is still early to predict whether and when research, training, meetings, and other academic activities return back to “normal”, but appears that some changes are here to stay.

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Health and environmental resilience: Effects of urbanisation, climate change and environmental determinants on mental health

S0001

Is resilience a protective factor against the effects of the COVID-19 pandemic on mental health? Results from a national multicentric study

A. Fiorillo

Department Of Psychiatry, University of Campania “L. Vanvitelli”, Naples, Italy
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The COVID-19 pandemic is impacting on the mental health of the general population and its consequences will be long lasting. As already noted in previous epidemics, different factors can moderate the detrimental impact of a traumatogenic event on mental health. In particular, it has been found that people using problem-solving coping strategies, with an adequate social network and supported

by family members, have good long-term outcomes and are able to adjust to the detrimental impact of the traumatic event. The COVID Mental Health Trial (COMET) network, including ten university Italian sites and the National Institute of Health, has promoted a national online survey in order to evaluate the impact of COVID-19 pandemic on the mental health of the Italian general population. In particular, the use of Internet and social media, the duration of the exposure to COVID-19 related containment measures, the different levels of post-traumatic growth and the variety of coping strategies adopted have been considered as possible mediators of the resilience styles adopted. In our sample, participants from the general population reported a good level of resilience compared with people with pre-existing mental or physical disorders. This data should be taken seriously in consideration in order to develop appropriate psychosocial interventions for supporting resilience in people at high-risk in order to mitigate the detrimental impact of the pandemic.

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The ecological momentary assessment approach and the use of big data to analyse possible effects of urbanisation on mental health

G. Menculini¹, I. Pigliautile², P. Moretti¹, F. Cotana², A.L. Pisello² and A. Tortorella^{1*}

¹Department Of Psychiatry, University of Perugia, Perugia, Italy and

²Department Of Engineering And Ciriad Interuniversity Research Centre On Pollution And Environment Mauro Felli, University of Perugia, Perugia, Italy

*Corresponding Author.

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Introduction: Smart healthcare monitoring allows detecting health conditions using Big Data, namely aggregated data concerning physiological and behavioral parameters. The continuous collection of data from smart-devices performed by the Ecological Momentary Assessment approach represents a promising application of Big Data. **Objectives:** This preliminary study was aimed at developing a research protocol focused on the use of Big Data in evaluating the impact of urban environment, affected by a variety of potentially damaging anthropogenic actions, on illness relapses in Bipolar Disorders (BD). **Methods:** This pilot study was designed by researchers from Departments of Psychiatry and Engineering (CIRIAF), University of Perugia. Environmental, physiological, and behavioral parameters and smart-devices aimed at collecting Big Data were identified. Subjects aged 18-65, affected by BD in current euthymic state referring to the University/General Hospital of Perugia will be recruited. **Results:** Subjects will undergo a baseline visit and three monitoring visits during one year. Wearable devices will be provided for collecting data about environmental and physiological parameters. Behavioral data will be collected through smartphone accelerometers, GPS, and overall smartphone use. Big data will be stored into an online platform that will provide real-time feedback concerning the recorded variables. Clinical information concerning BD relapses will be collected. Machine learning techniques, integrated to deterministic analysis of urban environmental conditions, will be used to create possible predictive models for BD relapses.