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*Both authors contributed equally.

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Author for correspondence:

Jeroen Habets,
 E-mail: j.habets@maastrichtuniversity.nl

Designing daily-life research combining experience sampling method with parallel data

Joana De Calheiros Velozo^{1,*}, Jeroen Habets^{2,*} , Sandip V. George³, Koen Niemeijer⁴, Olga Minaeva⁵, Noëmi Hagemann¹, Christian Herff⁶, Peter Kuppens⁴, Aki Rintala^{1,5}, Thomas Vaessen^{1,6}, Harriëtte Riese⁷ and Philippe Delespauf¹

¹Department of Neurosciences, Center for Contextual Psychiatry, KU Leuven, Leuven, Belgium; ²Department of Neurosurgery, School of Mental Health and Neuroscience, Maastricht University, Maastricht, The Netherlands; ³Department of Psychiatry, Interdisciplinary Center Psychopathology and Emotion regulation (ICPE), University Medical Center Groningen, University of Groningen, Groningen, The Netherlands; ⁴Department of Psychology and Educational Sciences, Research Group of Quantitative Psychology and Individual Differences, KU Leuven, Leuven, Belgium; ⁵Faculty of Social and Health Care, LAB University of Applied Sciences, Lahti, Finland; ⁶Department of Neurosciences, Mind Body Research, KU Leuven, Leuven, Belgium and ⁷Department of Psychiatry and Neuropsychology, School of Mental Health and Neuroscience, Maastricht University, Maastricht, The Netherlands

Abstract

Background. Ambulatory monitoring is gaining popularity in mental and somatic health care to capture an individual's wellbeing or treatment course in daily-life. Experience sampling method collects subjective time-series data of patients' experiences, behavior, and context. At the same time, digital devices allow for less intrusive collection of more objective time-series data with higher sampling frequencies and for prolonged sampling periods. We refer to these data as parallel data. Combining these two data types holds the promise to revolutionize health care. However, existing ambulatory monitoring guidelines are too specific to each data type, and lack overall directions on how to effectively combine them.

Methods. Literature and expert opinions were integrated to formulate relevant guiding principles.

Results. Experience sampling and parallel data must be approached as one holistic time series right from the start, at the study design stage. The fluctuation pattern and volatility of the different variables of interest must be well understood to ensure that these data are compatible. Data have to be collected and operationalized in a manner that the minimal common denominator is able to answer the research question with regard to temporal and disease severity resolution. Furthermore, recommendations are provided for device selection, data management, and analysis. Open science practices are also highlighted throughout. Finally, we provide a practical checklist with the delineated considerations and an open-source example demonstrating how to apply it.

Conclusions. The provided considerations aim to structure and support researchers as they undertake the new challenges presented by this exciting multidisciplinary research field.

Background

The experience sampling method (ESM) is a powerful diary-based tool to assess subjective daily-life data (Christensen, Barrett, Bliss-Moreau, Lebo, & Christensen, 2003; Eisele et al., 2020; Myin-Germeys et al., 2018; Palmser-Claus et al., 2011). Typically, users complete an identical (or quasi-identical) questionnaire repeatedly throughout the day over the course of several days, weeks, or months. These questionnaires are often scheduled using semi-randomized cues and responding is time limited to avoid biased- or back-filling. ESM has been extensively used in the health care sector to describe individuals' wellbeing and symptom course (Myin-Germeys et al., 2018) as well as to evaluate therapeutic effects in mental and physical health (Corrigan-Curay, Sacks, & Woodcock, 2018; FDA (Food and Drug Administration), 2022; Oyiniola, Campbell, & Koussolis, 2016).

Technological advances in wearable devices and passive sensing tools are expected to revolutionize health care. These tools are increasingly used in combination with ESM to enhance daily-life monitoring and to explore a much wider and comprehensive array of questions (Behg, Murphy, & Kumar, 2017). Throughout this paper we will refer to wearables and passive sensing data as 'parallel data'. Broadly, parallel data are any data that are collected in parallel to, and with the purpose of supplementing ESM. Examples of parallel data include but are not restricted to physiological (heart rate, blood pressure, movement), environmental (geolocation), or behavioral (smartphone usage) data. These data have been combined with ESM to study addiction (Bertz, Epstein, & Preston, 2018), affective disorders (Cousins et al., 2011,

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