Profiling insomnia using subjective measures: Where are we and where are we going

Daniel Ruivo Marques, PhD, Vanda Clemente, MSc, Ana Allen Gomes, PhD, Maria Helena Pinto de Azevedo, PhD

PII: S1389-9457(17)31599-X
DOI: 10.1016/j.sleep.2017.12.006
Reference: SLEEP 3597

To appear in: Sleep Medicine

Received Date: 7 December 2017
Accepted Date: 20 December 2017

Please cite this article as: Ruivo Marques D, Clemente V, Gomes AA, Pinto de Azevedo MH, Profiling insomnia using subjective measures: Where are we and where are we going, Sleep Medicine (2018), doi: 10.1016/j.sleep.2017.12.006.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.
Title:
Profiling insomnia using subjective measures: Where are we and where are we going

Authors:

Daniel Ruivo Marques, PhD
- University of Aveiro, Department of Education and Psychology, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal

Vanda Clemente, MSc
- Coimbra University Hospital Centre (CHUC), Sleep Medicine Centre, Portugal
  Quinta dos Vales, São Martinho do Bispo, 3041-801 Coimbra

Ana Allen Gomes, PhD
- Faculty of Psychology and Educational Sciences, University of Coimbra, Rua do Colégio Novo, 3000-115 Coimbra, Portugal
- CINEICC - Centro de Investigação do Núcleo de Estudos e Intervenção Cognitivo-Comportamental / Research & Development Unit (FCT): Cognitive and Behavioural Center for Research and Intervention

Maria Helena Pinto de Azevedo, PhD
- Faculty of Medicine, University of Coimbra, Rua Larga, 3004-504 Coimbra, Portugal
Corresponding author:
Daniel Ruivo Marques, PhD
University of Aveiro, Department of Education and Psychology
Campus Universitário de Santiago
3810-193 Aveiro, Portugal.
Phone: +351 234 372 428
E-mail: drmarques@ua.pt
Over the last decades, significant advances have been made in the conceptualization, diagnosis and treatment of insomnia [1]. Despite this progress, the “gold standard” for diagnosing insomnia is still a comprehensive clinical interview. Moreover, subjective and objective tools are available to evaluate multiple aspects of insomnia experience [2].

Several comprehensive models have been suggested to understand insomnia, and different effective intervention techniques have emerged concomitantly [3]. Different models are useful because these explain separate dimensions of insomnia experience. It is, therefore possible that several profiles of insomnia and insomnia patients may exist [4].

Both clinical experience and sleep research have stimulated us to think insomnia as a sleep disorder having multiple phenotypes. These phenotypes may not be clearly distinguished using (only) objective or even neuroimaging measures. Perhaps we need to focus on refinement of relevant self-report measures and select which of them (or part of them) are discriminative in a parsimonious way in insomnia disorder. Additionally, we need to think which of these measures may fit better with biomarkers of insomnia when available.

Regarding insomnia, the development of an inventory that measures insomnia profiles would benefit the field. For this purpose, researchers will need to depend on discriminative statistical analyses [5, 6]. With more studies using this rationale and methodologies, we may soon be able to create an insomnia profile measure, which could be very useful in clinical settings. Operationally, we need to ask: What type of measures should we include in this instrument? In other words, which items of existing scales should we choose to construct that instrument? Do we need more scales to compose the “whole picture”? What sleep-related and non-sleep-related domains should be covered? We believe the answer to these and other similar questions may become available during the next years of intensive
research in the field. For instance, our research team is currently working on a project about mindfulness profiles in insomnia. This may be an important dimension to cover in the daily clinical routine assessment of insomnia in the future. We expect that these tiny steps may contribute to a better understanding of insomnia experience.

Looking at all these aspects, some working hypotheses may be posed. Perhaps we can find an interesting model of insomnia that can enable us to develop a framework for the inventory to classify different profiles of insomnia. These profiles may require different therapeutic strategies, and perhaps the efficacy levels of current therapies may improve. Though this framework appears to make sense, we should, however, recognize that it is purely a speculation at the current moment.

In conclusion, insomnia seems to be a multidimensional disorder which may benefit from a discriminative approach to identify different phenotypes. When we have considerable amount of evidence based on research in this area, efforts to develop a profile measure of insomnia should be carried out. This agenda research may help in classifying insomnia in the coming years.
References


