

**Results:** Patients with ASD respond to sensory information hyper-reactively and hypo-reactively. Patients, regardless of age and severity of ASD, have atypical information processing patterns in all sensory modalities. Atypical processing of stimuli correlates with social, cognitive and communication disorders.

**Conclusions:** To normalize sensory deviations, it is necessary to build corrective and prognostic models of the child's connection with the environment. Machine learning models, Data Mining methods to make medical management decisions and develop personalized therapeutic strategies.

**Disclosure of Interest:** None Declared

## EPV0894

### Psychiatric Comorbidities in Hyperacusis and Misophonia: A Systematic Review Protocol

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doi: 10.1192/j.eurpsy.2023.2196

**Introduction:** Decreased sound tolerance amongst individuals can be divided into two conditions: Hyperacusis and Misophonia. Hyperacusis is the perception of certain everyday sounds as too loud or painful. Misophonia is characterized by heightened emotional reaction to a sound with a specific pattern and/or meaning to an individual, with the context in which occurs being relevant. Scattered evidence from clinical research suggests that Hyperacusis and Misophonia can co-occur with a wide range of psychiatric disorders. These factors can have an impact on the severity of the symptoms and subsequently, in the clinical management of these patients. A better understanding these comorbid conditions is important as it could help to clarify its underlying mechanisms and ultimately, to improve the care of these patients. Despite this, no attempt has been made to synthesize the spectrum of such co-occurring disorders.

**Objectives:** To conduct a systematic review of the available evidence on the prevalence of psychiatric disorders in patients with Hyperacusis and Misophonia, and to explore which factors may influence prevalence estimates.

**Methods:** Preferred Reporting Items for systematic Reviews and Meta-Analyses (PRISMA) and Meta-analyses of Observational Studies in Epidemiology (MOOSE) recommendations will be followed. The CoCoPop (Condition, Context and Population) framework was used to develop the review question. Pubmed, PsycINFO, Scopus and Web of Science electronic databases will be searched, as well as grey literature, using key-terms in accordance with the pre-established research question. Additional manual searches will also be conducted. Searches will be limited to human studies and no date, language or country origin restrictions will be applied. Outcomes of interest will be the occurrence of comorbid psychiatric disorders in patients with Hyperacusis and Misophonia that are reported according to validated assessment methods. Retrieved

records will be screened for eligibility by two independent reviewers using a two-phase approach (title and abstracts screening and full-text review). The methodological quality of primary studies will be assessed using the Joanna Briggs Institute (JBI) – Critical Appraisal Tools, depending on study design, and data will be extracted independently using a standardized extraction form.

**Results:** Quantitative data will be synthesized and presented in text and tabular format. Studies heterogeneity will be verified and if feasible, a meta-analysis will be conducted.

**Conclusions:** It is expected that this systematic review will provide evidence of a significant prevalence of a wide range of psychiatric comorbidities in patients with Hyperacusis and Misophonia, supporting the importance of screening these patients for psychiatric disorders.

**Disclosure of Interest:** None Declared

## EPV0896

### Composite structure of human mind revealed by HuPoTest

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doi: 10.1192/j.eurpsy.2023.2197

**Introduction:** HuPoTest is a mental test and training procedure as well discovered incidentally in 1967 during developing color photos in complete dark in successive baths for seconds. I observed that I was able to count seconds mentally with high repeatability. I was curious to check my skill by comparing my count with a commercial stopwatch with the help of another person. The results were very interesting, so I extending progressively this experiment to other persons and I was able to establish the correlation between more and more calculated parameters with the particular psychic patterns of the persons under test (PUT). In fact, HuPoTest is a calibration of personal mental-timer compared to a standard stopwatch. I test myself periodically and the results are published (Dragan, GDF Databanks Bull., 2021; 25(6), 1-4).

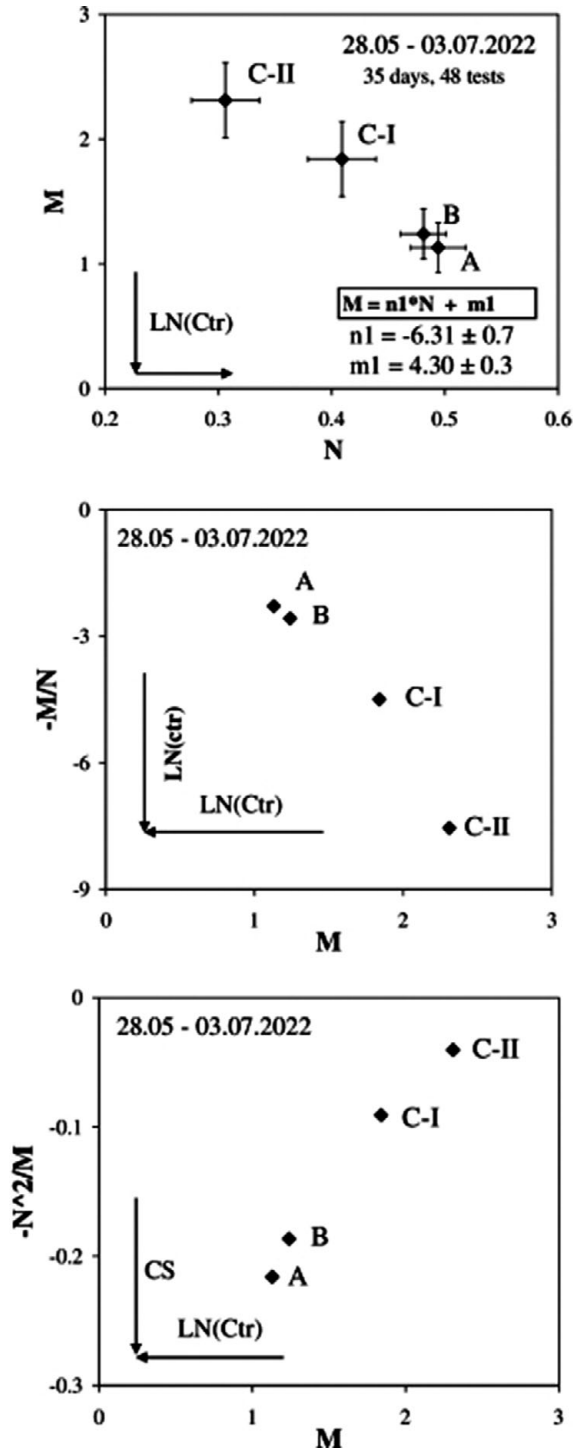
**Objectives:** Study of a large variety and number of systems in transformation revealed their composite structure, namely these have one component in transformation (Ctr) and an inert one (Cin) (Dragan, GDF Databanks Bull., 2011; 15(2), 1-19). This is the case of the human mind which is in permanent transformation, i.e. in continuous more or less coherent thinking. HuPoTest can establish the size of Ctr, Cin, ctr – the size of kinetic unit constituting Ctr and the coupling strength (CS) between Ctr and Cin.

**Methods:** PUT has to count mentally 5, 10, 15 and 20 seconds for 8-10 times each value by using a standard stopwatch and comparing the statistically retrieved matrix of measured values with the above mentioned imposed standard values. I was able to test face-to-face approximately 4000 persons during more than 50 years by collecting a huge databank. I explained in many publications the exact procedure, the majority of calculations and the significance of the resulted parameters by correlating the obtained results with the PUT mental pattern (Dragan, GDF Databanks Bull., 2019; 23(1) 1-6).

**Results:** The final results obtained by myself in the period of 28.05 – 03.07.2022 (A to CII) with overall of 48 tests are presented in

attached figures by using a standard stopwatch created by Mihai Dornea developer at National Instruments on LabView® platform with an accuracy of 10  $\mu$ s. Four distinct behaviors are revealed showing the good evolution of mind by decreasing Ctr and CS and increasing ctr by correct and continuous training.

**Image:**



**Conclusions:** HuPoTest is a highly efficient test and mental training procedure as well applied periodically in view to achieve a good and stable mental performance ensuring also a stable and good body health according to the well known quotations “sound mind in sound body” and “mind is the builder and body is the temple”. Such mental training becomes absolutely necessary taking into account that the survivors of the already started global war culminating at around 2035 will be persons with properly trained minds. I am available without any obligation for help anyone willing to try and practice HuPoTest.

**Disclosure of Interest:** None Declared

EPV0897

### Co-RESPOND - a European federated network of longitudinal cohorts investigating the effects of the Covid-19 pandemic on mental health and resilience

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doi: 10.1192/j.eurpsy.2023.2198

**Introduction:** European researchers are collaborating in the EU Horizon 2020-funded project “RESPOND” to address the psychological and psychosocial effects of the Covid 19 pandemic in order to prepare health systems for future crises. In the Co-RESPOND subproject, several longitudinal cohorts are contributing to an individual participant data (IPD) meta-analysis.

**Objectives:** Co-RESPOND aims to assess trajectories of mental health and resilience, and to identify relevant moderators using a meta-analysis of individual participant data (“IPD”) approach. Moreover, a research network of European cohorts is being established alongside a sustainable shared IT infrastructure. Co-RESPOND aims to publish the results of the collaboration in a findable, accessible, interoperable and reusable way according to the “FAIR publication” principles.

**Methods:** To achieve these aims, a federated network for remote data analysis is being built. In this talk we describe the steps necessary to join existing cohorts into one network, and which challenges need to be met: First, existing data sets need to be harmonized retrospectively, second, data sharing and processing needs to be done in accordance with the GDPR requirements, and third, a technical solution needs to be found to facilitate joint analyses and publication of the network and its products.

**Results:** We identified the Maelstroem guidelines for retrospective data harmonisation of epidemiologic studies as appropriate guidance to carry out and document the transformation of individual data sets. The OBiBa software suite is used to build the IT infrastructure of the project by connecting local data servers of the study sites and making them available for remote analyses by other partners. As of autumn 2022, data transformation is finalized and data sets uploaded on the local servers. A platform on the internet is created where the main characteristics of all participating cohorts (“meta-data”) are catalogued to help them gain visibility and make