

EPV1307

Depicting Self-Report Instruments Assessing Self-Injurious Thoughts and Behaviors (STBs) in Adults: An Umbrella Review with Network Analysis

L. L. D. Figueiredo¹, G. P. Roncete^{2*}, B. B. F. Damiano¹, L. Beiram¹, M. Auler³ and R. F. Damiano¹

¹Departamento e Instituto de Psiquiatria, Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo HCFMUSP;

²Faculdade de Medicina da Universidade de São Paulo FMUSP and

³Faculdade do Hospital Israelita Albert Einstein, São Paulo, Brazil

*Corresponding author.

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Introduction: Self-report instruments assessing self-injurious thoughts and behaviors (STBs) are widely used, but their effectiveness and predictive validity vary.

Objectives: This study aimed to synthesize findings from previous reviews and identify self-report instruments assessing suicidal thoughts and behaviors (STBs) in adults, followed by a network analysis to explore psychometric properties and inter-item relationships.

Methods: Systematic searches were conducted in MEDLINE/PubMed, EMBASE, and the Cochrane Database of Systematic Reviews, covering inception to July 2023, using terms like “suicide risk,” “self-report instruments,” and “psychometrics.” From 318 publications, 22 manuscripts were selected, including reviews, guidelines, and book chapters on STB instruments. Data were extracted under PRISMA guidelines, focusing on scale characteristics, predictive validity, item composition, and psychometric performance. Seven frequently cited scales (SPS, SSI, RFL, ASQ, SBQ-R, ACSS, and C-SSRS) were analyzed using Harmony, which uses NLP via Sentence-BERT to evaluate semantic similarity among items. A correlation matrix based on cosine similarity measured inter-item relationships, forming an undirected weighted graph analyzed with the Louvain community detection algorithm. Centrality measures (strength, betweenness, closeness) and questionnaire-based aggregation enabled scale comparisons. Additionally, Exploratory Graph Analysis (EGA) with the GLASSO model and Walktrap algorithm, assessed by the Total Entropy Fit Index (TEFI), explored network dimensionality and community structures.

Results: Thirty-four scales were identified, with 35% having 1-10 items and 29% having 11-20 items. ASIQ and ASQ displayed high predictive validity (sensitivity: 96% and 96.9%, respectively). The Beck Scale for Suicide Ideation (SSI) had the highest strength centrality (68.1) and eigenvector centrality (0.871), while the CSSRS had the highest betweenness centrality (488.0). Four clusters were identified (Image 1) with a modularity score of 0.0838, indicating moderate cluster separation. The EGA (Image 2) confirmed a multidimensional structure, with an edge density of 0.667 and the Walktrap algorithm identified two main communities focused on cognitive and behavioral/protective aspects. The TEFI score of -3.778 indicated a multidimensional network structure.

Image:

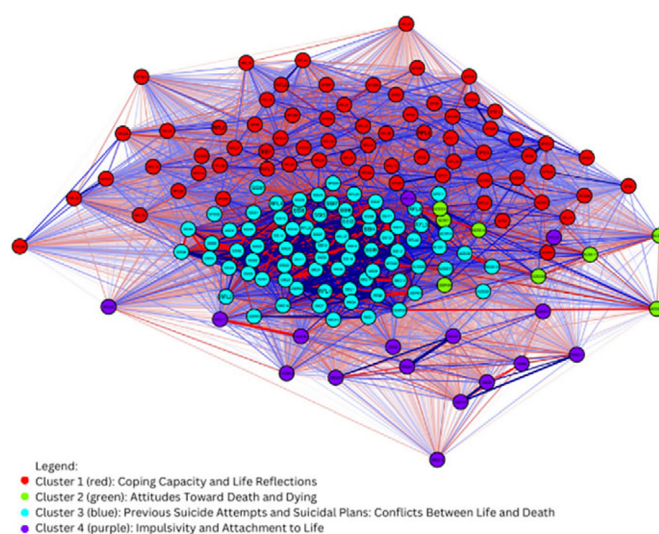
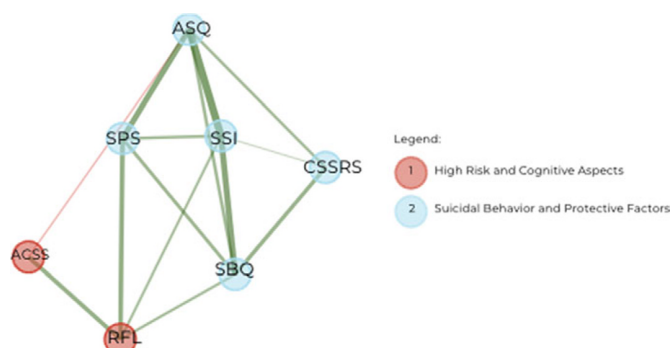


Image 2:



Conclusions: The findings underscore the need for multidimensional approaches to STB assessment. Key tools like the SSI and CSSRS are central, with future research recommended to enhance predictive validity and enable cross-cultural adaptation. To advance psychometric evaluation, future work will include a systematic review and meta-analysis following the COSMIN (CONsensus-based Standards for the selection of health Measurement INstruments) protocol to assess these scales' psychometric properties in depth.

Disclosure of Interest: None Declared

EPV1307

Quality of Life, Depression, Anxiety, and Stress in Humanities Students and People living with HIV in Russia during the COVID-19 Second Wave

V. I. Rozhdestvenskiy^{1*}, V. V. Titova¹, I. A. Gorkovaya¹, Y. S. Aleksandrovich¹ and D. O. Ivanov¹

¹Department of Psychosomatics and Psychotherapy, Saint Petersburg State Pediatric Medical University, Saint Petersburg, Russian Federation

*Corresponding author.

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Introduction: During the pandemic of a new coronavirus infection in Russia, the number of patients with diagnosed depressive and anxiety disorders increased. Studies have shown a sharp increase in the number of respondents who recorded stress as a non-specific reaction to a sudden change in environmental conditions. Quality of life, encompassing physical, psychological, and social well-being, often correlates with individuals' emotional and mental states.

Objectives: The study aimed to examine the associations between quality of life and emotional states — specifically, depression, anxiety, and stress — in humanities students and people living with HIV.

Methods: Data were collected from January to July 2021 through a Google form. The sample comprised 35 humanities students from Russian universities and 59 HIV-positive patients. The WHOQOL-BREF assessed quality of life, while the DASS-21 measured levels of depression, anxiety, and stress. Both questionnaires have been adapted for Russian respondents.

Results: We found that in the student group, depression was related to physical and psychological well-being ($r_s = -0.491$, $p < 0.01$), self-image ($r_s = -0.552$, $p < 0.05$) and microsocial support ($r_s = -0.550$, $p < 0.05$), and anxiety with physical and psychological well-being ($r_s = -0.356$, $p < 0.05$) and microsocial support ($r_s = -0.353$, $p < 0.05$). In the patient group, physical and psychological well-being was associated with depression ($r_s = -0.309$, $p < 0.05$) and anxiety ($r_s = -0.269$, $p < 0.05$); self-perception was associated with depression ($r_s = -0.490$, $p < 0.01$), anxiety ($r_s = -0.311$, $p < 0.05$) and stress ($r_s = -0.361$, $p < 0.05$); microsocial support — with depression ($r_s = -0.381$, $p < 0.01$), anxiety ($r_s = -0.260$, $p < 0.05$) and stress ($r_s = -0.322$, $p < 0.05$); social well-being — with depression ($r_s = -0.360$, $p < 0.01$), anxiety ($r_s = -0.426$, $p < 0.01$) and stress ($r_s = -0.334$, $p < 0.05$).

Conclusions: The study revealed distinct patterns in the relationship between life quality and emotional states across groups during the COVID-19 second wave in the Russian Federation. Among students, life quality, especially physical and psychological well-being, was associated with depression and anxiety but was notably independent of stress. Social well-being (including material security, health environment, leisure, and access to medical care) remained stable and unlinked to their emotional state. Among people living with HIV, almost all life quality domains correlated with depression, anxiety, and stress. This group displayed heightened vulnerability to emotional distress, affecting their self-perception, social interactions, and sense of security, thus underscoring the pandemic's amplified impact on this group's mental health.

Disclosure of Interest: None Declared

EPV1308

Level of Asthenia and Life Quality among Students during the COVID-19 Second Wave in the Russian Federation

V. I. Rozhdestvenskiy^{1*}, V. V. Titova¹, I. A. Gorkovaya¹, Y. S. Aleksandrovich¹ and D. O. Ivanov¹

¹Department of Psychosomatics and Psychotherapy, Saint Petersburg State Pediatric Medical University, Saint Petersburg, Russian Federation

*Corresponding author.

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Introduction: The COVID-19 pandemic significantly impacted the population in Russia, particularly students, who were forced to radically restructure their daily lives rhythm due to the introduction of distance learning, more homework, increasing the share of self-education. These factors could provoke the emergence of a particular psychopathological syndrome — asthenia, which is characterised by general and mental weakness, increased exhaustion, irritability, decreased productivity of cognitive processes, decreased motivation, sleep disorders and other psychosomatic disorders. These symptoms, in turn, could be associated with changes in the student's quality of life.

Objectives: The study aimed to assess the level of asthenia among students in humanities programs and to examine the relationship between asthenia indicators and quality of life.

Methods: Data collection was conducted from January to April 2021 through a specially developed Google form. Thirty-five students at the universities of the Russian Federation took part in the study. We used MFI-20 to assess the level of asthenia, and WHOQOL-BREF to study the life quality. Both questionnaires were adapted for Russian-speaking respondents.

Results: We found that 31% of respondents had symptoms of general asthenia, 29% had symptoms of decreased activity, 26% had symptoms of decreased motivation, 71% had symptoms of physical asthenia, and 26% had symptoms of mental asthenia. No statistically significant correlations were found between asthenia manifestations and life quality indicators. However, significant direct correlations were obtained between all quality-of-life domains, except for “microsocial support” and “social well-being”. **Conclusions:** In the conditions of the COVID-19 second wave, most students in Russia demonstrated physical asthenia symptoms. Asthenia manifestations were not related to the student's life quality. Students in the pandemic conditions should observe the sleep, rest regime and optimal physical activity. Among students in Russia, the microsocial aspect of life quality (relations with partners, sexual life, relations with friends) are fairly detached from the broader social context (e.g. everyday life safety, healthy physical environment, and so on).

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EPV1310

Time to discontinuation in routine clinical practice of the initially prescribed antipsychotic treatment in patients with first-episode psychosis

P. Salas Aranda^{1,2*}, C. Garcia Cerdan^{1,2}, C. Martin Gomez^{1,2,3}, C. Lorenzo Romo^{1,2}, M. C. Turrión Gomez², M. Isidoro García^{4,5} and J. Pérez^{1,2,3}

¹Psychiatry, Salamanca University Healthcare Complex; ²Unit of Psychiatry and Neuroscience, Institute of Biomedical Research of Salamanca (IBSAL); ³Medicine, University of Salamanca; ⁴Biochemistry and Clinical Analysis, Salamanca University Healthcare Complex and ⁵Pharmacogenetics and Precision Medicine Unit, Institute of Biomedical Research of Salamanca (IBSAL), Salamanca, Spain

*Corresponding author.

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