

# Bibliometric Insights into Mental Health Challenges and Innovations in Contemporary Society

Loso Judijanto<sup>1</sup>, Tera Lesmana<sup>2</sup>

<sup>1</sup> IPOSS Jakarta

<sup>2</sup> Universitas Ciputra

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## ABSTRACT

This bibliometric analysis examines the evolution and current state of mental health research from a comprehensive, data-driven perspective. Using VOSviewer for visual mapping, this study highlights key terms, thematic developments, and influential authors within the field over several decades. The analysis reveals a strong ongoing focus on core issues such as "mental illness," "anxiety," and "depression," alongside a notable rise in the integration of technological innovations like telepsychiatry and mobile health applications. The study also identifies significant authorship networks that suggest robust collaborative efforts, which are crucial for advancing research and implementing effective mental health interventions. The findings point towards an increasing recognition of the impact of social and environmental factors on mental health, suggesting new directions for future research and policy-making. This study underscores the need for a dynamic approach to mental health research, one that adapts to emerging challenges and leverages technological advances to improve access to care and treatment outcomes.

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## Corresponding Author:

Name: Loso Judijanto

Institution: IPOSS Jakarta

Email: [losojudijantobumn@gmail.com](mailto:losojudijantobumn@gmail.com)

## 1. INTRODUCTION

Mental health has emerged as a pivotal concern in modern society, with growing acknowledgment of its influence on general health and socio-economic progress [1]. The World Health Organization has identified mental health as a global issue, highlighting that depression and anxiety disorders result in over \$1 trillion annually in lost productivity for the global economy [2].

Mental health services have historically been underfunded and underestimated, resulting in considerable treatment gaps and limited access to care [3].

The emergence of the COVID-19 pandemic intensified pre-existing mental health issues and brought new complications, profoundly impacting global well-being [4]. The pandemic resulted in unparalleled levels of stress, anxiety, and depression stemming

from social isolation, economic instability, and health concerns, underscoring the critical necessity for comprehensive mental health support services [5]. This era witnessed an increase in the utilization of digital mental health interventions, which have started to revolutionize the mental health services landscape by offering more accessible and less stigmatized support options [6].

The field of mental health treatment is quickly evolving, propelled by technological advancements and an increasing recognition of the essential role mental health plays in attaining comprehensive health results. Innovative methodologies, such as telepsychiatry, mobile health applications, and AI-driven diagnostics, are becoming essential elements in meeting the extensive requirements of varied populations [7]. These advances are expected to improve accessibility, lower costs, and increase the efficacy of mental health therapies, especially in underserved regions [8].

The explosion of research and innovation in the subject also poses issues in synthesizing and interpreting the extensive information created across various contexts. Bibliometric analysis provides a systematic approach to thoroughly examine and understand the extensive literature, highlighting significant trends, main contributors, and emerging themes in mental health research [9]. This approach offers a comprehensive overview of the research landscape, assisting stakeholders in traversing the intricacies of mental health studies and advancements.

Despite the surge in mental health research, there remains a significant gap in systematic reviews and bibliometric analyses that compile and contextualize these findings within the broader narrative of mental health challenges and innovations. Many studies focus on specific aspects of mental health without integrating findings into the global health context, leading to fragmented knowledge and underutilization of available data [1]. There is a critical need to consolidate this information to better understand the evolution of mental health research, particularly in response to global crises like

the COVID-19 pandemic. Such an analysis would not only highlight the progress made but also pinpoint persistent gaps in the literature and practice, informing future research and policy-making [4].

The purpose of this research is to perform a thorough bibliometric analysis to delineate the trends, problems, and advances in mental health research during the past decade. This study seeks to identify the most impactful papers, journals, and authors in the area, examine the regional and thematic distribution of research, and elucidate new trends and technology in mental health care. The research aims to present a comprehensive overview of the field's development, highlighting beneficial tactics and identifying areas for future investigation to improve mental health outcomes in modern society.

## 2. LITERATURE REVIEW

### 2.1 *Global Trends in Mental Health Research*

Mental health research has seen significant diversification over the past decade, with studies branching out into various subfields and interdisciplinary areas. According to [1], the global burden of mental disorders continues to grow, with implications for disability and morbidity worldwide. This growth has prompted an increase in research focusing on both traditional and novel interventions. A key trend identified in this body of literature is the shift towards integrating mental health with public health initiatives, emphasizing the need for holistic approaches that encompass mental, physical, and social well-being [3]. Furthermore, the globalization of mental health issues has led to an increased focus on cross-cultural studies that examine the prevalence and nature of mental disorders across different societies. These studies are crucial for understanding the social determinants of mental health and for developing culturally sensitive interventions [9]. The research also

highlights a significant increase in studies exploring the economic impact of mental health issues, demonstrating a strong link between mental well-being and economic productivity [2].

## **2.2 Innovations in Mental Health Interventions**

The last decade has witnessed substantial advancements in mental health interventions, particularly through the use of technology. Telepsychiatry and mobile health applications have become prominent, offering new avenues for delivering mental health care to underserved populations [7]. These technologies not only facilitate greater access to mental health services but also reduce stigma associated with seeking help, as they allow for anonymity and privacy [10]. Artificial intelligence (AI) has also emerged as a transformative force in mental health care, with applications ranging from predictive analytics for early diagnosis to AI-driven cognitive behavioral therapies. [8] discuss the potential of AI to tailor interventions based on individual needs and to provide continuous support through chatbots and virtual therapists. Despite these advancements, there is ongoing debate regarding the ethical implications of AI in healthcare, including concerns about data privacy, algorithmic bias, and the depersonalization of care [8].

## **2.3 Impact of COVID-19 on Mental Health**

The COVID-19 pandemic has had a profound impact on global mental health, exacerbating existing mental disorders and triggering new cases due to the pandemic-related stressors. [5], [11] provide a comprehensive review of the literature on the mental health implications of COVID-19, noting increases in anxiety, depression, and

post-traumatic stress disorder across various populations. The pandemic has highlighted the critical gaps in mental health systems worldwide and has spurred rapid innovations in service delivery, such as the expanded use of online therapy sessions and mental health apps [4]. Research during this period has also focused on the resilience factors that can mitigate the psychological impacts of such global crises. Studies suggest that community support, effective communication, and access to mental health resources play key roles in maintaining mental health during times of crisis [4].

## **2.4 Bibliometric Analyses in Mental Health Research**

Recent bibliometric studies indicate a surge in research on mental health resilience, preventive mental health, and the integration of mental health care into primary health settings. These themes suggest a shift towards proactive and preventive mental health strategies, moving beyond the traditional reactive models of mental health care [1]. Additionally, there is a growing interest in understanding the long-term effects of the COVID-19 pandemic on mental health, which will likely shape research priorities in the coming years [5].

## **3. METHODS**

This research employs a bibliometric analysis to explore the landscape of mental health challenges and innovations in contemporary society, utilizing data extracted from Google Scholar databases. The time frame for the selected studies spans from 1967 to 2024, ensuring a comprehensive overview of the last decade's developments. The search terms used include "mental health," "psychological well-being," "mental health innovations," and "COVID-19 mental health impacts." The inclusion criteria focus on peer-reviewed articles and reviews written in

English. Data analysis is performed using VOSviewer for creating co-citation, bibliographic coupling, and co-occurrence networks to identify the most cited works, prevalent themes, and emerging trends in the field [12]. The analysis also integrates a thematic analysis to qualitatively assess the

content of the most influential papers, allowing for a deeper understanding of the specific areas of innovation and ongoing challenges within mental health research.

#### 4. RESULTS AND DISCUSSION

##### 4.1 Results

Table 1. Research Data Metrics

Metrics Data	Information
Publication years	1967-2024
Citation years	57
Papers	980
Citations	724666
Cites/year	12713.44
Cites/paper	739.46
Cites/author	330300.42
Papers/author	467.87
Authors/paper	2.90
h-index	307
g-index	850
hI,norm	253
hI,annual	4.44
hA, index	124
Paper with ACC >=	1,2,5,10,20:917,866,725,552,393

Source: Output Publish or Perish, 2024

Table 1 presents a comprehensive set of bibliometric metrics for a collection of studies spanning from 1967 to 2024. The dataset comprises 980 papers which have garnered a total of 724,666 citations, averaging about 12,713 citations per year and 739 citations per paper, indicating a high impact in their respective fields. The data also shows a substantial authorial contribution with an average of 330,300 citations per author and about 468 papers per author, reflecting a highly productive and influential authorship. Each paper involves approximately 2.9 authors on average, suggesting a moderate level of collaboration. The h-index, a metric indicating that at least 307 papers have each received 307 citations,

highlights significant academic influence and consistent contribution to the field. The g-index is even more robust at 850, suggesting that the top papers have a very high citation count. Adjusted indices like the hI,norm and hI,annual, at 253 and 4.44 respectively, adjust the h-index for co-authorship effects, showing that the core authors still maintain a strong influence. The hA index at 124 further confirms a solid academic footprint. Additionally, the breakdown of papers with at least 1, 2, 5, 10, and 20 citations (917, 866, 725, 552, 393 respectively) showcases the depth of research impact across the body of work, with a significant number of papers achieving widespread recognition and citation.

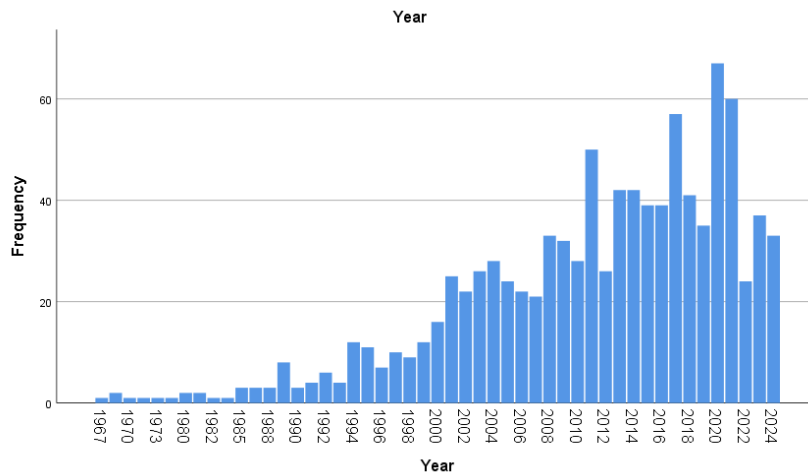


Figure 1. Yearly Publication  
Source: Data Analysis, 2024

The bar graph illustrates the yearly frequency of publications from 1961 to 2024. From the early 1960s until the late 1990s, the publication frequency was relatively low, rarely exceeding 10 publications per year. This period of low activity suggests either the nascent stage of the field or limited interest and resources dedicated to this area of study. Starting around the year 2000, there is a noticeable increase in publication frequency, which indicates a growing interest and possibly advancements in the field that prompted more research activity. The frequency of publications sees a more dramatic increase from 2008 onwards, peaking

around 2018 with over 50 publications in that year alone. The spike could reflect a period of significant discoveries, increased funding, or a response to particular global or scientific developments that spurred research. Post-2018, there is a slight decline in publications, but the numbers still remain relatively high compared to the early years, demonstrating that the field has established a robust research community and ongoing interest. The overall trend indicates a maturing field with fluctuating but generally increasing research output over the decades.

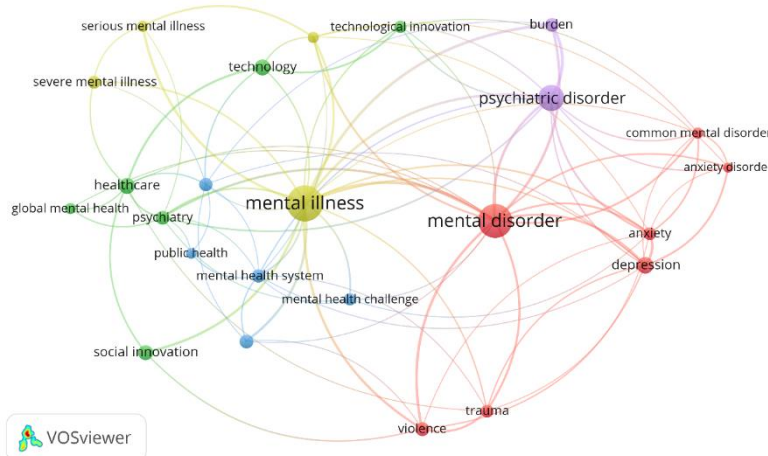


Figure 2. Network Visualization  
Source: Data Analysis, 2024

This visualization maps the network of terms associated with mental health research, illustrating the interconnectedness and frequency of certain themes and concepts within the field. The network clusters various terms into groups, indicated by different colors, which represent thematic focuses in the mental health literature. The central node, "mental illness," connects to various significant terms such as "mental disorder," "psychiatric disorder," and broader themes like "global mental health" and "mental health system." This central positioning underscores the overarching theme of mental illness in discussions across different sub-fields, including healthcare, public health, and psychiatry. The proximity and connections between terms like "anxiety," "depression," and "psychiatric disorder" highlight the common focus on these conditions within mental health research, indicating a concentrated scholarly effort to address these prevalent mental health issues.

On another side of the spectrum, "technological innovation" and "technology" are linked, suggesting a growing emphasis on the role of new technologies in managing or treating mental health issues. This cluster's connection with "mental illness" and "mental health challenge" implies that technological solutions are increasingly being considered for their potential to address various challenges in the mental health sector, including accessibility of care and treatment efficacy. Moreover, the visualization also shows terms like "trauma" and "violence" linked to "mental disorder," indicating a recognition of the impact of social and environmental factors on mental health. This connection emphasizes the research focus on how external factors influence mental health conditions, which is critical for developing comprehensive, context-sensitive mental health interventions.

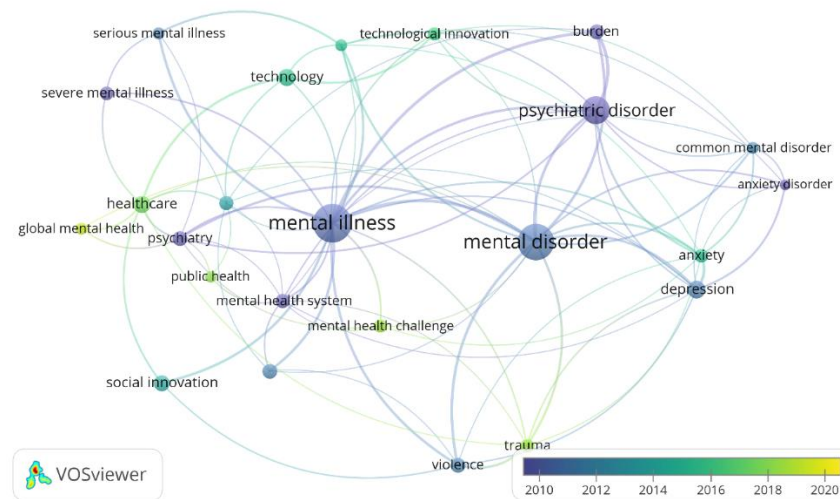


Figure 3. Overlay Visualization

Source: Data Analysis, 2024

The enhanced visualization provided integrates a temporal component to the network of terms associated with mental health

research, mapping changes and developments in the field from 2010 to 2020. Each term's color corresponds to its prominence within specific time

periods, enabling an analysis of how focus areas in mental health research have shifted over the decade. This time-resolved view allows researchers to observe the evolution of interests and the emergence or decline of certain themes over time.

The nodes connected to "mental illness" remain central throughout the decade, maintaining their significance in the research landscape. Terms such as "anxiety," "depression," and "psychiatric disorder" exhibit sustained attention, underscoring the ongoing emphasis on these major mental health conditions. The persistent relevance of these terms suggests that they continue to be a primary focus due to their high prevalence and significant impact on public health. Additionally, newer connections, such as those to "technological innovation" and "social innovation," gain color intensity over time,

indicating a growing research interest in integrating innovative solutions to address mental health challenges.

The visualization also highlights an increased focus on "violence" and "trauma" towards the latter part of the decade, suggesting a rising awareness of the impact of social factors on mental health. This shift may reflect broader societal movements and increased global attention to trauma-informed care and the psychological effects of violence. Such insights are crucial for directing future research efforts, indicating a need to further explore how environmental and social contexts influence mental health and the effectiveness of interventions in these areas. This bibliometric map thus not only illustrates the current state of mental health research but also helps predict and shape future directions in the field.

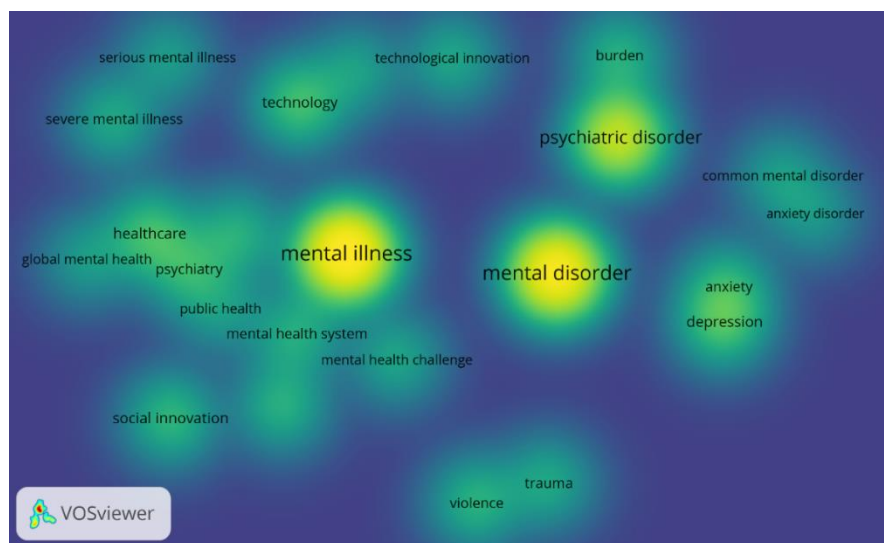


Figure 4. Density Visualization  
Source: Data Analysis, 2024

This VOS viewer visualization uses a density view to depict the concentration and interconnectivity of various terms related to mental health research. The intensity of the colors represents the frequency and centrality of the terms

within the body of research analyzed. Brighter areas such as those around "mental illness" and "mental disorder" indicate these topics are highly prevalent and central in the literature, suggesting a strong focus and significant research output related to



these issues. This central cluster acts as a nexus, connecting diverse but related themes such as "anxiety," "depression," and "psychiatric disorder," which are also highlighted as areas of intense study.

The distribution of terms like "technological innovation," "violence," and "trauma" around the periphery with less intensity suggests these are emerging or less central themes within the field. However, their presence indicates growing recognition of their importance to mental health discussions. For

instance, the connection between mental health and "technology" highlights the increasing role of digital and technological solutions in addressing mental health challenges, while the inclusion of "violence" and "trauma" reflects a broadening scope of mental health research to include the effects of social and environmental factors. This heatmap effectively illustrates both the current focus areas in mental health research and signals potential growth areas that may become more prominent in future studies.



Figure 5. Author Collaboration  
Source: Data Analysis, 2024

This VOSviewer visualization maps key authors in a specific field of study, possibly mental health research, based on their interconnectedness and impact. The different colors of the nodes likely represent various clusters or groups within the research community, indicating collaboration networks or thematic alignments among the authors. Larger and more centrally located nodes such as "Patel, V" and "Thornicroft, G" suggest these authors are highly influential, potentially due to their prolific output

or central roles in collaborative research networks. Other nodes like "Costello, EJ" and "Angold, A" also appear prominent but are shown in a different color, possibly indicating a separate but related research focus or a different collaborative network. The positioning of the nodes and their proximity to one another can help identify potential collaborations or thematic overlaps between various researchers, providing insights into the structure and dynamics of this academic community.



Table 2. Most Cited Article

Citations	Author and Year	Title
19535	[13]	Lifetime and 12-month prevalence of DSM-III-R psychiatric disorders in the United States: results from the National Comorbidity Survey
16963	[14]	Prejudice, social stress, and mental health in lesbian, gay, and bisexual populations: conceptual issues and research evidence.
16871	[15]	Prevalence, severity, and comorbidity of 12-month DSM-IV disorders in the National Comorbidity Survey Replication
15767	[16]	Purposeful sampling for qualitative data collection and analysis in mixed method implementation research
11286	[17]	Validation and utility of a self-report version of PRIME-MD: the PHQ primary care study
10014	[18]	Factors associated with mental health outcomes among health care workers exposed to coronavirus disease 2019
9757	[19]	World Health Statistics 2016 [OP]: Monitoring Health for the Sustainable Development Goals (SDGs)
7349	[20]	Research domain criteria (RDoC): toward a new classification framework for research on mental disorders
7139	[21]	Combat duty in Iraq and Afghanistan, mental health problems, and barriers to care
6887	[22]	Implementation matters: A review of research on the influence of implementation on program outcomes and the factors affecting implementation

Source: Output Publish or Perish, 2024

#### 4.2 Discussion

##### a. Trends and Themes in Mental Health Research

The bibliometric analysis provided a density view of terms that highlighted "mental illness" and "mental disorder" as central nodes, reflecting their ongoing prevalence and the consistent focus they receive in the literature. The sustained prominence of terms like "anxiety" and "depression" within the research landscape underscores the significant burden these disorders continue to impose globally, aligning with WHO reports on the leading causes of disability worldwide. Furthermore, the emergence of terms such as "technological innovation" and "social innovation" later in the decade suggests a shift towards leveraging new technologies and social strategies to address mental health challenges. This shift likely reflects the increasing adoption of digital health solutions, which have been accelerated by the COVID-19 pandemic as traditional

mental health services faced disruptions.

##### b. Impact of Technological Innovations

The network analysis revealed a growing intersection between technology and mental health, indicating a crucial trend towards digital interventions. This is consistent with current literature that emphasizes the expansion of telepsychiatry, mobile health apps, and AI-driven diagnostics as critical to overcoming barriers to access. The implications of this trend are profound, as technology offers the potential to democratize mental health care, reaching underserved populations and providing continuous support. However, the discussions around these technologies also raise concerns about privacy, the digital divide, and the need for regulations to ensure these innovations contribute positively

without exacerbating existing inequalities.

#### c. **Authorship and Collaboration Dynamics**

The analysis of key authors and their networks revealed significant figures such as Patel, V and Thornicroft, G, who appear as central nodes, indicating their influential contributions to the field. The visualization of author connections provides insights into collaboration patterns, suggesting that mental health research benefits from interdisciplinary approaches and diverse expert contributions. These findings underscore the importance of collaborative networks in driving the field forward, facilitating the exchange of ideas, and integrating findings across different studies and disciplines. This collaborative nature is essential not only for advancing scientific understanding but also for implementing effective interventions tailored to various cultural and social contexts.

#### d. **Challenges and Future Directions**

Despite the advancements and the expanding breadth of mental health research, several challenges persist. The analysis indicates a need for more focused research on emerging issues like the mental health impacts of violence and trauma. These areas are becoming increasingly relevant in today's socio-political climate but are not yet as central in academic discussions as more traditional themes. Future research should also explore the long-term effects of pandemic-induced mental health strains, as the full implications of prolonged social isolation and economic uncertainty are still unfolding. Moreover, the evolution of research themes suggests that while the burden of mental disorders remains a persistent

challenge, there is also a significant shift towards understanding and implementing preventative measures. This shift is crucial for developing proactive mental health strategies that not only address but also prevent mental health issues before they escalate into more severe disorders.

#### e. **Integration of Findings and Policy Implications**

The bibliometric insights from this study should be integrated into broader mental health policies and practices. The central themes identified through this analysis could inform priority areas for funding agencies and health care systems, guiding resource allocation to areas that offer the highest potential for impact. Additionally, the emerging focus on technology and innovation within the mental health field highlights the importance of investing in digital health research and development.

## 5. CONCLUSION

This bibliometric study provides a comprehensive overview of the mental health research landscape over recent decades, identifying prevailing themes such as the central focus on "mental illness" and "mental disorders," and the significant roles of "anxiety" and "depression." It highlights the increasing integration of technological innovations into mental health solutions, reflecting a shift towards more accessible and effective interventions. The analysis of authorship and collaboration patterns reveals a robust network of scholars driving the field's evolution, emphasizing the importance of interdisciplinary contributions. Moving forward, the insights gained from this study advocate for continued emphasis on emerging areas like trauma and the impact of social conditions on mental health. These findings underscore the need for a proactive approach in research and policy-making to address the

dynamic and complex challenges of mental health in a rapidly changing world.

## REFERENCES

- [1] P. J. Smith and R. M. Merwin, "The role of exercise in management of mental health disorders: an integrative review," *Annu. Rev. Med.*, vol. 72, no. 1, pp. 45–62, 2021.
- [2] W. H. Organization, "COVID-19 global risk communication and community engagement strategy, December 2020–May 2021: interim guidance, 23 December 2020," World Health Organization, 2020.
- [3] B. Green, K. Jones, R. Lyerla, W. Dyar, and M. Skidmore, "Stigma and behavioral health literacy among individuals with proximity to mental health or substance use conditions," *J. Ment. Heal.*, vol. 30, no. 4, pp. 481–487, 2021.
- [4] J. F. Murphy, L. B. Amin, S. T. Celikkaleli, H. E. Brown, and U. Tapan, "Disparities in cancer care in individuals with severe mental illness: A narrative review," *Cancer Epidemiol.*, vol. 93, p. 102663, 2024.
- [5] W. D. S. Killgore, S. A. Cloonan, E. C. Taylor, and N. S. Dailey, "Mental health during the first weeks of the COVID-19 pandemic in the United States," *Front. Psychiatry*, vol. 12, p. 561898, 2021.
- [6] J. Gunawan, S. Juthamane, and Y. Aunguroch, "Current mental health issues in the era of Covid-19," *Asian J. Psychiatr.*, vol. 51, p. 102103, 2020.
- [7] Z. Cheng, S. Mendolia, A. R. Paloyo, D. A. Savage, and M. Tani, "Working parents, financial insecurity, and childcare: mental health in the time of COVID-19 in the UK," *Rev. Econ. Househ.*, vol. 19, pp. 123–144, 2021.
- [8] K. K. Patel, A. Pal, K. Saurav, and P. Jain, "Mental health detection using transformer bert," in *Handbook of Research on Lifestyle Sustainability and Management Solutions Using AI, Big Data Analytics, and Visualization*, IGI Global, 2022, pp. 91–108.
- [9] E. Dragioti *et al.*, "A large-scale meta-analytic atlas of mental health problems prevalence during the COVID-19 early pandemic," *J. Med. Virol.*, vol. 94, no. 5, pp. 1935–1949, 2022.
- [10] N. M. Simon, G. N. Saxe, and C. R. Marmar, "Mental health disorders related to COVID-19–related deaths," *Jama*, vol. 324, no. 15, pp. 1493–1494, 2020.
- [11] M. Cleary, C. Schafer, L. McLean, and D. C. Visentin, "Mental health and well-being in the health workplace," *Issues Ment. Health Nurs.*, vol. 41, no. 2, pp. 172–175, 2020.
- [12] N. Van Eck and L. Waltman, "Software survey: VOSviewer, a computer program for bibliometric mapping," *Scientometrics*, vol. 84, no. 2, pp. 523–538, 2010.
- [13] R. C. Kessler *et al.*, "Lifetime and 12-month prevalence of DSM-III-R psychiatric disorders in the United States: results from the National Comorbidity Survey," *Arch. Gen. Psychiatry*, vol. 51, no. 1, pp. 8–19, 1994.
- [14] I. H. Meyer, "Prejudice, social stress, and mental health in lesbian, gay, and bisexual populations: conceptual issues and research evidence," *Psychol. Bull.*, vol. 129, no. 5, p. 674, 2003.
- [15] R. C. Kessler, W. T. Chiu, O. Demler, and E. E. Walters, "Prevalence, severity, and comorbidity of 12-month DSM-IV disorders in the National Comorbidity Survey Replication," *Arch. Gen. Psychiatry*, vol. 62, no. 6, pp. 617–627, 2005.
- [16] L. A. Palinkas, S. M. Horwitz, C. A. Green, J. P. Wisdom, N. Duan, and K. Hoagwood, "Purposeful sampling for qualitative data collection and analysis in mixed method implementation research," *Adm. policy Ment. Heal. Ment. Heal. Serv. Res.*, vol. 42, pp. 533–544, 2015.
- [17] R. L. Spitzer, K. Kroenke, J. B. W. Williams, P. H. Q. P. C. S. Group, and P. H. Q. P. C. S. Group, "Validation and utility of a self-report version of PRIME-MD: the PHQ primary care study," *Jama*, vol. 282, no. 18, pp. 1737–1744, 1999.
- [18] J. Lai *et al.*, "Factors associated with mental health outcomes among health care workers exposed to coronavirus disease 2019," *JAMA Netw. open*, vol. 3, no. 3, pp. e203976–e203976, 2020.
- [19] W. H. Organization, *World Health Statistics 2016 [OP]: Monitoring Health for the Sustainable Development Goals (SDGs)*. World Health Organization, 2016.
- [20] T. Insel *et al.*, "Research domain criteria (RDoC): toward a new classification framework for research on mental disorders," *American Journal of psychiatry*, vol. 167, no. 7. Am Psychiatric Assoc, pp. 748–751, 2010.
- [21] C. W. Hoge, C. A. Castro, S. C. Messer, D. McGurk, D. I. Cotting, and R. L. Koffman, "Combat duty in Iraq and Afghanistan, mental health problems, and barriers to care," *N. Engl. J. Med.*, vol. 351, no. 1, pp. 13–22, 2004.
- [22] J. A. Durlak and E. P. DuPre, "Implementation matters: A review of research on the influence of implementation on program outcomes and the factors affecting implementation," *Am. J. Community Psychol.*, vol. 41, pp. 327–350, 2008.