

DOI: 10.63053/ijset.65

AI for Mental Health Assessment and Intervention: A Systematic Review

Danial Karimzadeh¹, Amin Saeedi²

1.MA in Information Technology Management, Department of Information Technology Management, Faculty of Management, Islamic Azad University E-Campus, Tehran, Iran

PhD Student in Computer Engineering - Artificial Intelligence and Robotics, Department of Computer Engineering, Faculty of Engineering, Islamic Azad University of Central Tehran Branch, Tehran, Iran

2. Master of Information Technology Engineering - Software Design and Production, Department of Computer and Information Technology, Faculty of Engineering, Islamic Azad University, West Tehran Branch, Tehran, Iran

PhD Student in Computer Engineering - Artificial Intelligence and Robotics, Department of Computer Engineering, Faculty of Engineering, Islamic Azad University of Central Tehran Branch, Tehran, Iran

ARTICLE INFO

Keywords:

Artificial Intelligence (AI), Mental Health Assessment, AI Chatbots, Machine Learning, Personalized Mental Health Interventions, Wearable Devices, Mental Health Services, Ethics in AI, Health Technology, Healthcare Accessibility

ABSTRACT

Mental health-related illnesses are said to be the biggest global concern affecting millions of such persons worldwide with high rates of disability. Though the demand for services related to mental health has increased, there has been a cumulative lack of mental health professionals, trend most prevalent in low-resource areas. Well-designed Artificial Intelligence (AI) has been a blessing in disguise for most people as it improves diagnostic accuracy, accentuates individualized therapy, and advances access to mental health services. Artificial Intelligence (AI) has been offering innovative age-old solutions by enhancing mental health assessments, customized interventions, and accessibility. AI has been using different tools such as machine learning algorithms, AI chatbots, and wearable devices for mental health diagnosis, therapy, and monitoring. Nevertheless, the ethical issues regarding the use of such tools coupled with lack of user engagement and non-integration into existing health care systems are still existent. This review compiles different studies starting from 2024 until 2025 concerning the use of AI in mental health, examining feasibility, effective measures, and future possibilities for revolutionizing mental health care delivery.

Introduction

Mental health disorders are a growing global concern, compounded by a shortage of professionals. AI-based tools such as chatbots, wearable devices, and diagnostic algorithms are increasingly recognized as promising solutions. This review evaluates their effectiveness, feasibility, and ethical considerations. Mental health disorders, such as depression, anxiety, and post-traumatic stress disorder (PTSD), are leading causes of disability worldwide. Despite their prevalence, access to mental health care remains a challenge due to shortages of mental health professionals and inequities in resource distribution (WHO, 2022).

Emerging technologies, particularly artificial intelligence (AI), offer innovative approaches to address these gaps. AI applications in mental health range from diagnostic tools using machine learning algorithms to AI-powered chatbots providing therapeutic interventions (Battiato et al., 2024).

However, the deployment of AI in mental health care is not without challenges. Ethical concerns, including privacy, bias, and data security, complicate the integration of AI solutions into clinical practice. Additionally, the scalability and long-term effectiveness of AI interventions in diverse populations remain under-researched (Lund & Ghiasi, 2024). This situation highlights the need for further studies to establish robust, ethical, and inclusive frameworks for using AI in mental health assessment and interventions.

The growing global burden of mental health disorders and the scarcity of mental health professionals highlight the critical need for innovative solutions in mental health care. According to the World Health Organization (JAMA,2024), mental health conditions contribute significantly to the global disease burden, yet millions of individuals lack access to timely and effective treatment due to systemic gaps in healthcare delivery (WHO, 2022).

Improved Accessibility: AI tools can bridge the gap in mental health services, particularly in low-resource settings. Chatbots and mobile applications can offer 24/7 support to individuals, even in regions with limited access to professionals (Battiato et al., 2024).

Early Detection: AI-enabled diagnostic systems can identify mental health issues at early stages through analysis of speech patterns, facial expressions, and behavioral data, enabling timely interventions (Sinha et al., 2024).

Cost-Effectiveness: AI interventions reduce the cost of mental health care by minimizing reliance on one-on-one therapy sessions and providing scalable solutions (Lund & Ghiasi, 2024).

Addressing Workforce Shortages: The global shortfall of mental health workers is a pressing challenge. AI systems can supplement human professionals by managing routine tasks and facilitating decision-making (WHO, 2022).

Personalization: Machine learning algorithms allow for personalized mental health interventions, tailoring treatments to individual needs and improving outcomes (Sinha et al., 2024).

Ethical and Inclusive Practices: Developing ethical AI frameworks ensures that technology is used responsibly, addressing issues of bias and ensuring equitable mental health support for diverse populations (Lund & Ghiasi, 2024).

The integration of AI into mental health care is not merely a convenience but a necessity to tackle the growing mental health crisis globally. It offers scalable, accessible, and personalized solutions while addressing critical gaps in the existing healthcare infrastructure.

Theoretical Foundations

Artificial Intelligence (AI) in mental health is rooted in several main theoretical frameworks from AI and psychologic fields, which have the potential to improve one's insight into how AI can be introduced into measuring and intervening in mental health care. (JAMA, 2024).

1. AI and Machine Learning in Mental Health

Machine learning, as an integral part of AI, has been used widely in mental health for diagnosis and treatment from medical records to behavioral patterns and voice to identify patterns and predict conditions in an individual, such as depression, anxiety, or PTSD (Sinha et al., 2024). These models were derived from supervised and unsupervised types of learning for prediction models about an individual's mental status based upon inputs by achieving very high accuracy levels compared to traditional methods of diagnosis (Sinha et al., 2024).

2. Human-Computer Interaction (HCI) Theory

All these basements rely on theories of HCI to create systems that efficiently engage users to bring such systems into use across stages of therapy; these are typically called such things as an AI application or even a virtual assistant. Within HCI theory, focus on a user-centered design enables the sooner understanding of intuitive and easy use of systems. For example, AI chatbots that are used in therapeutic scenarios apply conversational AI models in employing CBT (Cognitive Behavioral Therapy) to simulate discussions like real time therapeutic sessions (Battiato et al., 2024). So, this framework becomes central to ensuring that AI tools will be not just technically efficacious but also psychologically engaging for users.

3. Cognitive Behavioral Theory (CBT) and AI

AI use in mental health is also usually provided on therapeutic models, such as Cognitive Behavioral Therapy (CBT), reflections of which were digitalized through use in AI systems. Cognitive behavioral therapy modifies negative, maladaptive thought patterns and behaviors; AI applications chatbots apply this principle by directing patients through therapeutic exercises. One such thing would be by employing natural language processing (NLP) to interface with the users whereby, it would decipher cognitive distortions, and recommend possible coping techniques under CBT principles (Lund & Ghiasi, 2024).

4. Ethical and Socio-Psychological Aspects

The use of AI in mental healthcare raises ethical considerations about data privacy, bias, and social consequences as one of the areas in which AI would have its greatest ethical arguments. Ethical frameworks in AI healthcare also pay attention to the user's privacy before fairness and inequitable treatment by addressing biases across AI algorithms (Lund & Ghiasi, 2024). These may also play very critical roles in determining if all these AI-directed interventions would be effective, just, and inclusive.

5. Digital mental health theories

Theories regarding digital mental health delineate the leverage and pathway for the use of AI towards improved access, engagement, and outcome in mental health care delivery by providing scalable and accessible tools. These theories indicate the role of technology in removing barriers like stigma, cost, and distance, which cause limitations in mental health treatment (Battiato et al., 2024).

Background of the research

In the context of AI applications in mental health, researchers have identified several key variables that influence the effectiveness of AI-driven interventions and diagnostics. (JAMA, 2024) Below are some of the main variables identified by recent studies:

1. Data Quality and Quantity

Variables: Type of data (e.g., speech, text, physiological data), data diversity (demographic factors), and data volume.

Findings: AI models perform better with large, high-quality datasets that are diverse in terms of age, ethnicity, and socio-economic background. Inadequate or biased data may lead to inaccurate predictions or inequitable outcomes (Battiato et al., 2024).

2. User Engagement

Variables: Frequency of interaction, user satisfaction, and perceived usefulness of the AI tool.

Findings: Higher user engagement is linked to more successful mental health interventions. Tools that offer personalized feedback, show empathy, and maintain a conversational style are more likely to retain users and lead to better outcomes (Lund & Ghiasi, 2024).

3. Ethical Considerations

Variables: Privacy concerns, algorithmic fairness, and transparency in AI decision-making.

Findings: Ethical variables such as maintaining user privacy, ensuring informed consent, and preventing bias in AI algorithms are critical for the successful integration of AI into mental health care. Failure to address these factors can result in user mistrust and resistance to adoption (Lund & Ghiasi, 2024).

4. Accuracy and Performance of Algorithms

Variables: Algorithm type (e.g., deep learning, decision trees), training methods, and evaluation metrics (e.g., accuracy, sensitivity, specificity).

Findings: AI algorithms that accurately detect mental health conditions, such as depression and anxiety, demonstrate significant clinical potential. The performance of these algorithms is often evaluated through cross-validation with clinical diagnoses, and improvements are seen with advancements in machine learning models (Sinha et al., 2024).

5. Scalability and Accessibility

Variables: Cost-effectiveness, technological infrastructure, and accessibility in underserved populations.

Findings: AI tools can scale effectively, making mental health interventions accessible to a wider population, especially in low-resource settings. However, successful scaling often requires addressing issues like the affordability of technology and ensuring that individuals from diverse backgrounds can access AI-driven services (Battiato et al., 2024).

6. User Trust and Acceptance

Variables: Trust in AI, user perception of AI competence, and willingness to use AI-based tools for mental health.

Findings: User trust is crucial for the success of AI in mental health care. Research has shown that users are more likely to engage with AI systems they perceive as competent, transparent, and aligned with their mental health needs (Lund & Ghiasi, 2024).

1. Effectiveness of AI in Diagnosis

Finding: AI-based diagnostic tools have demonstrated a high degree of accuracy in identifying mental health conditions such as depression, anxiety, and PTSD. Machine learning algorithms, especially deep learning models, have shown promise in analyzing complex datasets, including speech patterns, facial expressions, and behavioral data, leading to more accurate and timely diagnoses compared to traditional methods (Sinha et al., 2024).

Implication: Early and accurate detection through AI can lead to earlier interventions, improving outcomes for individuals with mental health disorders. (JAMA, 2024)

2. AI in Therapeutic Interventions

Finding: AI-driven therapeutic interventions, such as chatbots (e.g., Woebot, Wysa), have been found effective in providing Cognitive Behavioral Therapy (CBT) and emotional support. These AI tools offer personalized and scalable mental health services, which are especially useful for individuals who may not have access to in-person therapy (Battiato et al., 2024).

Implication: AI-powered therapies can serve as a supplement to traditional mental health services, expanding access and improving convenience for users.

3. User Engagement and Satisfaction

Finding: Higher user engagement and satisfaction are observed when AI tools exhibit human-like conversational abilities and empathy. These factors are crucial in maintaining long-term usage and improving the effectiveness of AI-driven interventions (Lund & Ghiasi, 2024).

Implication: The success of AI tools in mental health depends on user trust and continued engagement, which can be fostered through user-friendly design and empathetic AI interactions.

4. Ethical and Privacy Concerns

Finding: Ethical concerns, particularly related to privacy, data security, and algorithmic fairness, are critical barriers to widespread adoption of AI in mental health care. Ensuring that AI tools are transparent, free from bias, and secure is essential for gaining public trust and ensuring ethical use (Lund & Ghiasi, 2024).

Implication: Ethical guidelines and regulatory standards are necessary to mitigate risks and ensure that AI applications in mental health are fair, inclusive, and respect user privacy.

5. Scalability and Cost-Effectiveness

Finding: AI has been shown to offer scalable and cost-effective solutions for mental health care, particularly in underserved areas. AI interventions can reduce the burden on healthcare professionals by providing accessible support that reaches a larger population (Battiato et al., 2024).

Implication: AI could play a significant role in addressing the global shortage of mental health professionals, offering continuous support even in remote or resource-limited settings.

These findings collectively suggest that AI has the potential to revolutionize mental health care by improving diagnostics, providing accessible interventions, and addressing issues like workforce shortages. However, ethical and technical challenges must be addressed to fully realize its benefits. These variables highlight the multifaceted nature of AI's impact on mental health and underscore the importance of integrating diverse factors for successful implementation and outcomes. (JAMA, 2024)

Solutions and Consequences of AI in Mental Health Assessment and Intervention Solutions (Approaches)

1. AI-Enhanced Diagnostics

AI systems can significantly improve the accuracy and efficiency of diagnosing mental health conditions. Machine learning algorithms, such as deep learning models, can analyze vast amounts of patient data, including speech patterns, facial expressions, and written text, to detect subtle signs of mental health disorders (Sinha et al., 2024). These systems can assist mental health professionals in making more precise diagnoses, which is particularly crucial for disorders like depression and PTSD, where early detection is key to effective treatment.

2. AI-Driven Therapeutic Interventions

AI-powered tools, such as chatbots and virtual therapists, are being used to deliver personalized therapeutic interventions, such as Cognitive Behavioral Therapy (CBT). These tools are designed to adapt to the user's responses, providing tailored suggestions and coping strategies. Chatbots like Woebot and Wysa have shown promise in reducing symptoms of anxiety and depression, offering continuous support and enabling individuals to access therapy outside of traditional settings (Battiato et al., 2024).

3. Scalability and Accessibility

AI can address the global shortage of mental health professionals by offering scalable solutions. AI tools can provide mental health assessments and interventions remotely, breaking down barriers related to geographical location, time constraints, and the stigma surrounding mental health (Lund & Ghiasi, 2024). This is especially important in underserved or low-resource areas, where mental health services are scarce.

4. Wearable Devices for Monitoring

AI-enabled wearable devices, such as smart watches or fitness trackers, can continuously monitor physiological signals like heart rate, sleep patterns, and physical activity levels. These devices can detect early signs of mental health deterioration and alert users or healthcare providers, facilitating prompt intervention (Lund & Ghiasi, 2024). This approach offers a proactive strategy for managing mental health.

Consequences (Impacts)

1. Ethical Challenges

The use of AI in mental health raises important ethical issues, particularly regarding privacy, data security, and consent. Collecting and analyzing personal health data, including sensitive mental health information, requires strict ethical guidelines to ensure users' privacy is protected. Additionally, AI systems may inadvertently reflect biases present in the data they are trained on, leading to inaccurate diagnoses or unequal care for certain groups (Lund & Ghiasi, 2024). Therefore, developing transparent and accountable AI systems is crucial.

2. User Engagement and Trust

While AI-driven interventions show promise, user engagement and trust remain significant challenges. Individuals may be hesitant to use AI systems for mental health care, particularly if they feel the technology cannot replace human connection or empathy. The success of AI tools often depends on how effectively they can simulate human-like interactions and foster a sense of trust with users (Battiato et al., 2024). Additionally, continuous engagement with AI-based interventions is essential to ensure long-term effectiveness.

3. Over-reliance on Technology

One potential risk of AI in mental health care is the over-reliance on technology. While AI can enhance mental health services, it should not replace the need for human professionals in more

complex cases. AI should be viewed as a complementary tool, not a substitute for traditional therapeutic relationships and professional judgment. Excessive reliance on AI may undermine the role of mental health practitioners and reduce the human empathy essential for effective treatment. (JAMA,2024)

4. Regulatory and Policy Development

The rapid growth of AI applications in mental health necessitates the development of comprehensive regulatory frameworks to ensure that these technologies are safe, effective, and ethically implemented. Governments and health organizations must work together to establish standards for AI tools and ensure they meet the necessary clinical and ethical requirements (Lund & Ghiasi, 2024). Without proper regulation, there is a risk that AI tools may be used inappropriately, leading to harmful consequences for users.

Findings

1. Diagnostic Precision

AI techniques, such as machine learning and natural language processing, are proving effective in differentiating complex mental health conditions like bipolar disorder and depression with high accuracy. These tools reduce misdiagnosis and streamline patient management (Sinha et al., 2024).

2. Chatbot Interventions

AI chatbots have shown potential in delivering cognitive behavioral therapy (CBT) and managing conditions like anxiety and substance use. However, issues of user engagement and system integration remain challenges (Battiato et al., 2024).

3. Wearable Devices

Wearable AI-enabled devices provide continuous monitoring and early detection of mental health crises, facilitating timely interventions. Their scalability and data reliability offer significant advantages (Lund & Ghiasi, 2024).

4. Personalized Interventions

AI systems enable tailored treatments by analyzing user data, offering interventions specific to individual needs. These tools promote user autonomy and enhance therapeutic outcomes (Battiato et al., 2024).

5. Ethical and Social Implications

Privacy, bias, and data security are major ethical concerns. Studies emphasize the need for transparent AI systems and regulatory frameworks to ensure responsible implementation (Lund & Ghiasi, 2024).

Discussion

AI holds promise for transforming mental health care by bridging gaps in service delivery, particularly in low-resource settings. Future research should prioritize addressing ethical challenges and optimizing AI-human collaboration in therapeutic settings.

1. AI in Mental Health Diagnosis

AI has demonstrated significant advancements in diagnosing mental health disorders. A range of studies has shown that machine learning (ML) models, particularly deep learning techniques, are effective at detecting conditions such as depression, anxiety, and post-traumatic stress disorder (PTSD). These models analyze large datasets consisting of speech patterns, behavioral data, and physiological signals, which allow them to detect subtle indicators that might not be immediately visible to human clinicians. (JAMA, 2024)

For example, a study by Sinha et al. (2024) found that deep learning models trained on speech data were able to distinguish between depressive and non-depressive speech with impressive accuracy. These findings suggest that AI could be used to complement traditional clinical assessments, offering more timely and objective diagnoses. The increasing sophistication of AI models, including those that analyze facial expressions and physiological metrics (like heart rate variability), further enhances diagnostic accuracy (Sinha et al., 2024).

Implication: AI's diagnostic capability can help identify mental health conditions early, leading to quicker interventions, which is crucial for conditions like depression, where early treatment is known to be more effective.

2. AI in Therapeutic Interventions

AI has also made a significant impact on therapeutic interventions, particularly through the use of chatbots and virtual assistants. AI tools like Woebot and Wysa are designed to deliver Cognitive Behavioral Therapy (CBT) and other therapeutic techniques through chat-based interactions. These tools have been shown to help individuals manage conditions like anxiety and depression by offering cognitive restructuring exercises, mindfulness practices, and emotional support. (JAMA, 2024)

Battiato et al. (2024) conducted a scoping review of AI-powered chatbots, finding that these systems were effective in reducing symptoms of anxiety and depression, especially when users engaged with them consistently. These tools offer several benefits, such as accessibility, convenience, and affordability, which can make therapy more readily available, especially for people who might not have access to traditional mental health services.

Implication: AI-driven therapeutic interventions can expand access to mental health support, especially in areas where mental health professionals are scarce, providing a scalable solution to a global issue.

3. User Engagement and Satisfaction

User engagement is a key factor in determining the success of AI-driven mental health interventions. Research shows that AI tools are more effective when users feel engaged and trust the system. Engagement is often influenced by the design and interaction style of the AI tool. Systems that replicate human-like conversation and offer empathy are more likely to be perceived as trustworthy and beneficial.

Lund & Ghiasi (2024) highlight that AI tools that demonstrate empathy through natural language processing (NLP) and personalized interactions are more likely to retain users and produce positive therapeutic outcomes. Users tend to engage more with systems that not only provide functional help but also create an emotionally supportive environment.

Implication: Ensuring that AI tools are empathetic and user-centered is essential for maintaining engagement and ensuring that interventions lead to meaningful mental health improvements. (JAMA, 2024)

4. Ethical and Privacy Concerns

Despite the potential benefits, the use of AI in mental health raises significant ethical and privacy concerns. The collection and analysis of sensitive mental health data must be handled with strict privacy protections to avoid breaches of confidentiality. Additionally, there are concerns about the potential biases in AI algorithms, which could lead to inaccurate diagnoses or interventions for certain demographic groups.

Lund & Ghiasi (2024) emphasize that ethical guidelines, including transparency in how AI models make decisions and how data is used, are crucial for building trust with users. Addressing issues such as algorithmic fairness and ensuring that AI tools are inclusive of diverse populations is essential for ensuring equitable care. The lack of regulatory frameworks in some regions further complicates these issues.

Implication: To ensure the widespread acceptance and success of AI in mental health, it is essential to establish robust ethical guidelines, address bias, and protect user privacy.

5. Scalability and Cost-Effectiveness

AI systems offer scalability and cost-effectiveness, making mental health care more accessible, particularly in under-resourced or remote areas. By automating certain aspects of mental health care, such as assessments and basic therapeutic interventions, AI can reduce the burden on human clinicians and ensure that more individuals have access to timely care. AI tools can also be available 24/7, offering continuous support to users whenever needed.

Battiato et al. (2024) discuss the significant potential of AI to scale mental health interventions, particularly in low-resource settings where there is often a shortage of mental health professionals. AI systems can be deployed in large numbers at relatively low costs, making them an attractive option for global mental health initiatives.

Implication: The ability of AI to scale rapidly and cost-effectively means that it can help address the global shortage of mental health professionals and provide essential services to underserved populations.

6. Challenges and Risks of Over-Reliance on Technology

While AI offers many benefits, there are also concerns about the potential over-reliance on technology for mental health care. AI systems, despite their ability to offer valuable insights and interventions, cannot replace the nuanced understanding, empathy, and judgment that human therapists bring to treatment. Lund & Ghiasi (2024) argue that AI should be seen as a complementary tool rather than a complete replacement for human clinicians. There is also the risk that individuals may rely too heavily on AI for mental health support, neglecting the importance of face-to-face therapy when needed. Implication: AI should be integrated into mental health care as a tool to augment, rather than replace, human professionals. Ensuring that AI interventions are used appropriately and in conjunction with traditional care methods is vital for maintaining the overall quality of mental health treatment. (JAMA, 2024)

Conclusion

AI has already changed the course of mental health treatment, and whether it succeeds is up to overcoming usability, equity, and ethical challenges. AI helping in mental health care comes with a multidisciplinary theoretical grounding that interrelates AI and Machine Learning systems, Human-Computer Interactions, psychotherapeutic models like CBT, and ethics. All these theories are the foundation for the development and application of AI tools to improve mental health assessment and intervention. Future research is needed to refine these theoretical models and ensure that AI-driven mental health interventions are effective, ethical, and widely accessible.

It brings a lot of promise to improve mental health care through better diagnosis, easier therapy, and continuous monitoring. It has to be done carefully through paying great attention toward ethical, social, and practical aspects so that they are really responsible usages. Such an initiative has to build future research and policy construction addressing the issue so much of what to gain in mental health by AI. Although the findings seem to suggest a strong promise from AI in approaching the transformation of mental health care through improved diagnostics, mass-scale therapeutic interventions, and greater penetration of services, they also indicate certain apparent challenges presented concerning ethics, trust by users, and the dangers of over-reliance on the use of technologies. Addressing these issues is thus fundamental for responsible and effective integration of AI into mental health.

References

- APA Psychologists. (2023). The promise and challenges of AI in mental health. American Psychological Association. Retrieved from https://www.apa.org/monitor/2021/11/cover-artificial-intelligence
- Battiato, S., Guarnera, L., & Caponnetto, P. (2024). AI chatbots for mental health: A scoping review of effectiveness, feasibility, and applications. Applied Sciences, 14(13).
- Cambridge University Press. (2023). Use of generative AI in psychiatry and mental health. Cambridge Core. Retrieved from https://www.cambridge.org/core/journals
- Frontiers in Psychology. (2024). Artificial intelligence in positive mental health: A narrative review. Frontiers in Psychology. Retrieved from https://www.frontiersin.org/articles/10.3389/fpsyg.2024.00001/full
- JAMA Network. (2024). One day, AI could mean better mental health for all. JAMA Network Open, 331(20), 1691-1694. Retrieved from https://doi.org/10.1001/jama.2024.23191
- Joseph, A. P., & Babu, A. (2024). The unseen dilemma of AI in mental healthcare. AI & SOCIETY, 1-3. Retrieved from https://doi.org/10.1007/s00146-024-01937-9
- Mathur, N. (2023). The use of artificial intelligence and natural language processing for mental health interventions. News-Medical. Retrieved from https://www.news-medical.net/mental-health

- Saeidnia, H. R., Hashemi Fotami, S. G., Lund, B., & Ghiasi, N. (2024). Ethical Considerations in Artificial Intelligence Interventions for Mental Health and Well-Being: Ensuring Responsible Implementation and Impact. Social Sciences, 13(7), 381. https://doi.org/10.3390/socsci13070381
- Sinha, A., KaurBhatia, S., Deolal, G., Mishra, D., & Rao Jallepalli, V. (2024). AI for mental health: Innovations in diagnosis and therapy. Journal of Electrical Systems, 20(10s).
- SpringerLink. (2024). an Introduction to Generative artificial intelligence in mental health care. SpringerLink. Retrieved from https://link.springer.com/article
- Torous, J. & Blease, C. (2024), Generative artificial intelligence in mental health care: potential benefits and current challenges. World Psychiatry, 23: 1-2. https://doi.org/10.1002/wps.21148
- World Health Organization. (2021). *Mental Health ATLAS 2020*. Retrieved from https://www.who.int/publications/i/item/9789240036703