Personalized Psychiatry and Neurology

Letter

Artificial Intelligence and Personalized Medicine

Marina A. Barulina

Perm State National Research University, Perm, Russia

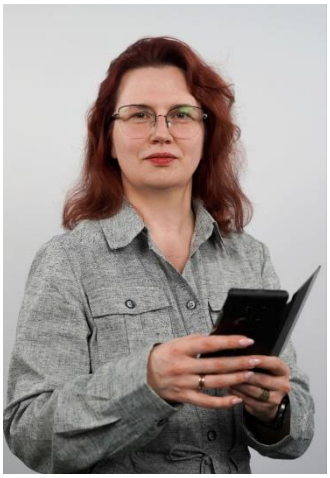
*Correspondence: marina@barulina.ru

Citation: Barulina, M.A. Artificial Intelligence and Personalized Medicine. *Personalized Psychiatry and Neurology* **2025**, *5 (1)*: 1.

Chief Editor: Nikolaj G. Neznanov, D Med Sci, Professor

Publisher's Note: V. M. Bekhterev NMRC PN stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Dear colleagues!



I would like to express my gratitude to the members of the editorial board and the editorial staff for the existence of such an innovative journal as "Personalized Psychiatry and Neurology". The journal "Personalized Psychiatry and Neurology" will allow you to keep abreast of modern trends and the latest achievements in psychiatry. We live in an era when the possibilities of artificial intelligence (AI) open up broad prospects for the development of personalized and telemedicine - when an individual approach is at the heart of diagnosis, treatment and prevention.

AI is capable of processing huge amounts of data, including medical records, test results, genetic information and data from wearable devices. Based on this data, it is possible to create models that can predict the risks of developing diseases, determine optimal treatment strategies and evaluate the effectiveness of various therapeutic approaches. AI algorithms can be used to analyze the patient's posture, facial expressions, semantic contexts of his speech in order to build systems for objectifying diagnoses of patients with psychiatric or cognitive disorders. The publication in the journal "Personalized Psychiatry and Neurology" of works devoted to the study of the possibility of using AI to objectify the diagnosis of diseases and objectify the assessment of the effectiveness of treatment for a particular patient makes this journal interdisciplinary and significant not only for researchers studying mental and neurological disorders. AI has great potential to improve the quality of medical care, but its use is associated with many ethical issues. The main ethical issues of using AI in medicine include data privacy, transparency and explainability of decisions, bias of algorithms, responsibility for errors, replacement of human labor, availability and fair distribution of resources, autonomy and control over treatment, impact on the quality of life of patients, the ethics of experiments and the role of the state in regulation. Perhaps these issues could also be discussed on the pages of the journal «Personalized Psychiatry and Neurology», as they are of exceptional importance for the further development and implementation of AI methods in clinical practice. In conclusion, I would like to thank you for the opportunity to publish the results of my research in the journal "Personalized Psychiatry and Neurology". I hope that the authors and the editorial board of the journal will be able to make a significant contribution to the development of personalized medicine through joint efforts, which will help improve the treatment of psychiatric and neurological diseases in many patients.

Director of the Physics and Mathematics Institute, Perm State National Research University
Marina Barulina
Dr. Sci. (Phys.-Math.)