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27TH INTERNATIONAL CONGRESS OF CLINICAL CHEMISTRY AND LABORATORY MEDICINE
52ND CONGRESS OF ASSOCIATION OF CLINICAL BIOCHEMISTS OF INDIA

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Challenges and perspectives of artificial intelligence use in laboratory medicine in Ukraine during wartime

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Background-Aim

The actual military and political situation in the world created the tendency for gradual replacement of human activity by artificial intelligence (AI). Laboratory medicine was not an exclusion, as it requires the analysis of big data. Some researchers point out that unreasoned use of such technologies may complicate and perplex the work of laboratory doctors, and it is better to rely upon one's own experience and intuition. The other experts state that proper setup makes AI a powerful assistant. The aim of the present work was to outline the challenges and perspectives of AI use in laboratory medicine during wartime.

Methods

78 laboratory doctors from Kharkiv hospitals were involved in the research. Sociological survey, descriptive and analytical methods were used; a special questionnaire for doctors was created and distributed via Google-forms in popular social networks.

Results

The analysis showed that 51% of laboratories do not use AI in their work process due to the absence of devices adapted to the use of AI-software; another 49% have certain experience in AI technologies. The main problems were the mismatch between the diagnosis concluded by laboratory and family doctors and the one done by AI (77%), atypical cells verification mistakes (23%). The positive aspects of AI use included the possibility of proper storage of sample analysis data, grouping and and comparative study of the dynamical changes during the treatment (69%), and opportunities for disease prognostication (31%).

Conclusions

The application of AI in laboratory medicine has both positive and negative sides, which depend on distribution of AI technologies and level of skills in them. There are also certain perspectives related to prognostic possibilities for the course of the disease.