

APPLICATION OF ARTIFICIAL INTELLIGENCE IN HEALTH CARE

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Abstract: *One of the important tasks of artificial intelligence (AI) is to support people in making decisions in the treatment process. Such support allows to reduce the risk of diagnostic errors and significantly accelerate the process of making important decisions related to the treatment process. The aforementioned premises were the main motivation for setting the goal of this study. The purpose of this paper was to analyze the literature on the application of artificial intelligence (AI) in healthcare. Works containing the words: artificial intelligence, management and healthcare were examined. The application of AI is wide, the tools are used to meet the basic goals of healthcare. They involve quality assurance of healthcare delivery, patient safety, and decision support systems. These systems are used for biomedical research and remote consultation, among others. The field of healthcare quality assurance system research has included papers related to quality of health care, quality of life, patient satisfaction, health failure, chronic disease, treatment outcome, clinical competence, nurse's role, length of stay, equipment design, robotics. Publications were also related to cost-benefit analysis, risk assessment, prognosis. It has been shown that artificial intelligence, precision medicine, big data, deep learning, covid-19 have increased significantly between 2018 and 2021, which can be regarded as the formation of a new thematic field related to the digitization of healthcare.*

Keywords: *artificial intelligence, healthcare, management*

JEL Classification: H0, O0, D80

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