

A new revolution in healthcare transformation using hyper-automation technologies

Khadijeh Moulaei¹, Kambiz Bahaadinbeigy^{2*} 

¹Medical Informatics Research Center, Institute for Futures Studies in Health, Kerman University of Medical Sciences, Kerman, Iran

²Digital Health Team, Australian College of Rural and Remote Medicine, Brisbane, QLD, Australia

Article Info

Article type:

Letter to Editor

Article History:

Received: 2023-03-29

Accepted: 2023-04-09

Published: 2023-04-15

* Corresponding author:

Kambiz Bahaadinbeigy

Digital Health Team, Australian
College of Rural and Remote
Medicine, Brisbane, QLD, Australia

Email: kambizb321@gmail.com

ABSTRACT

As someone who has been following the development of hyper-automation technologies in healthcare, I wanted to write to you about the many optimistic outcomes that these technologies have already produced. I am writing to express my excitement about many potential and benefits of hyper-automation technologies in healthcare. Hyper-automation, which includes the use of smart technologies such as artificial intelligence, low-code/no-code (LCNC) platforms, machine learning, robotics and other technologies to automate and optimize processes, has the possibility to transform healthcare in many ways.

Keywords:

Healthcare Transformation

Hyper-Automation Technologies

Cite this paper as:

Moulaei K, Bahaadinbeigy K. A new revolution in healthcare transformation using hyper-automation technologies. *Front Health Inform.* 2023; 12: 134. DOI: [10.30699/fhi.v12i0.422](https://doi.org/10.30699/fhi.v12i0.422)

DEAR EDITOR

As someone who has been following the development of hyper-automation technologies in healthcare, I wanted to write to you about the many optimistic outcomes that these technologies have already produced. I am writing to express my excitement about many potential and benefits of hyper-automation technologies in healthcare. Hyper-automation, which includes the use of smart technologies such as artificial intelligence, low-code/no-code (LCNC) platforms, machine learning, robotics and other technologies to automate and optimize processes, has the possibility to transform healthcare in many ways [1].

One of the most promising potentials of hyper-automation technologies in healthcare is in the field of medical diagnosis. By leveraging the power of machine learning algorithms, therapists can more accurately diagnose and treat a wide range of conditions, from common to rare diseases [2]. This can lead to better outcomes for patients, reduced hospital stays, fewer complications, and improved

general health and well-being. Moreover, hyper-automation technologies can also help healthcare professionals to individualize care for individual patients, taking into account their unique needs and medical history. Another area where hyper-automation technologies can make a big difference is in the management of medical records. By automating the procedures of data entry and analysis, healthcare providers can improve the accuracy and integrity of patient records, reduce the risk of errors, and make it easier for physicians and other healthcare professionals to access and share patient information [3]. Hyper-automation technologies can also make a big difference in the management of healthcare operations [4]. By automating routine tasks such as scheduling appointments and processing insurance claims, healthcare providers can reduce the burden on staff and free up resources for more complex tasks. This can lead to increased efficiency, better patient outcomes, and reduced costs.

Of course, there are also potential challenges and hazards associated with the use of hyper-automation

technologies in healthcare, including problems around privacy and security, as well as the potential for bias in machine learning algorithms. However, with careful planning and supervision, these hazards can be alleviated, and the benefits of hyper-automation can be realized. Overall, I believe that hyper-automation technologies have the potential to revolutionize healthcare, and improve patient outcomes. I look forward to seeing how these technologies develop and how they can be integrated into healthcare systems around the world.

ACKNOWLEDGEMENTS

This study was supported by Medical Informatics Research Center of Kerman University of Medical Sciences. The funder had no roles in study design, data gathering and analysis.

The authors thank the Central Library and

Documentation Center of Kerman University of Medical Sciences for providing access to knowledge base references required for this study.

AUTHOR'S CONTRIBUTION

KM: Conceptualization and literature search; KM and KB: data analysis; KB: writing and draft preparation; KM and KB: writing, review and editing. All authors read and approved the final manuscript.

CONFLICTS OF INTEREST

The authors declare no conflicts of interest regarding the publication of this study.

FINANCIAL DISCLOSURE

No financial interests related to the material of this manuscript have been declared.

REFERENCES

1. Madakam S, Holmukhe RM, Revulagadda RK. The next generation intelligent automation: Hyperautomation. *Journal of Information Systems and Technology Management*. 2022; 19: e202219009.
2. Al-Zoubi H, Al-Bzoor N. Toward driverless AI: Automating leukemia detection and classification using hyperautomation, a case study. *Research Square*; 2022.
3. Srivastava A, Kumar A, Damle M. Hyperautomation in transforming underwriting operation in the life insurance industry. *Palarch's Journal Of Archaeology Of Egypt/Egyptology*. 2020, 17(6): 4928-44.
4. Zhao X, Oseni T, Medishetty BT: Overview of business Hyperautomation. *International Conference on e-Business Engineering*. IEEE; 2022.