

The Role of Technology in Transforming Healthcare Delivery

Christina Shayevitz*

Department of Psychiatry, Weill Cornell Medicine, 525 E 68th St, Box 171, NY 10065, New York, USA

Introduction

Technology has been transforming healthcare delivery in recent years, revolutionizing the way patients receive care and healthcare providers deliver it. From telemedicine and wearable devices to artificial intelligence and electronic health records, technology is making healthcare more efficient, effective, and accessible than ever before. One of the most significant benefits of technology in healthcare delivery is improved access to care. Telemedicine and virtual visits have made it possible for patients to receive medical attention without leaving their homes, eliminating the need for travel and reducing the risk of exposure to infectious diseases. This has proven to be especially important during the COVID-19 pandemic, where virtual care has been instrumental in ensuring continuity of care and reducing the spread of the virus [1].

Wearable devices and mobile apps have also been transforming healthcare delivery, allowing patients to monitor their health and track their progress from the comfort of their homes. These technologies can be used to monitor vital signs, track physical activity, and provide reminders for medication and appointments. Patients can share this information with their healthcare providers, who can use it to make more informed decisions about treatment plans.

Artificial intelligence and machine learning are also transforming healthcare delivery, providing healthcare providers with powerful tools for analysing data and making more accurate diagnoses. AI-powered tools can analyse medical images, predict outcomes, and identify patterns and trends that may not be visible to the human eye. These tools can help healthcare providers make more informed decisions about treatment plans, leading to better patient outcomes [2].

Description

Electronic Health Records (EHRs) have also been transforming healthcare delivery by providing healthcare providers with a more complete picture of a patient's health history. EHRs can store a patient's medical history, including diagnoses, test results, and medications, making it easier for healthcare providers to make informed decisions about treatment plans. EHRs also allow healthcare providers to share patient information securely, reducing the risk of errors and improving patient safety. Patient portals are another important tool for healthcare delivery transformation. These online platforms allow patients to access their medical records, schedule appointments, and communicate with their healthcare providers. Patients can use these portals to ask questions, request prescription refills, and receive test results, improving communication and reducing the need for phone calls and in-person visits [3].

***Address for Correspondence:** Christina Shayevitz, Department of Psychiatry, Weill Cornell Medicine, 525 E 68th St, Box 171, NY 10065, New York, USA, E-mail: shayevic457@gmail.com

Copyright: © 2023 Shayevitz C. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Received: 02 March, 2023, Manuscript No. IJPHS-23-94814; **Editor assigned:** 04 March, 2023, PreQC No. P-94814; **Reviewed:** 16 March, 2023, QC No. Q-94814; **Revised:** 22 March, 2023, Manuscript No. R-94814; **Published:** 29 March, 2023, DOI: 10.37421/2736-6189.2023.8.330

While technology has many benefits for healthcare delivery, it also comes with its own set of challenges. One of the most significant challenges is the potential for data breaches and cyber security threats. Healthcare providers must ensure that patient data is stored securely and that appropriate measures are taken to protect it from hackers and other threats. Another challenge is the potential for technology to exacerbate healthcare disparities. Patients who do not have access to reliable internet or digital devices may be left behind, limiting their ability to receive virtual care or use patient portals. Healthcare providers must be mindful of these disparities and work to ensure that technology is accessible to all patients, regardless of their socioeconomic status [4,5].

Conclusion

Technology has been transforming healthcare delivery, providing patients with improved access to care and healthcare providers with powerful tools for delivering care. Telemedicine, wearable devices, AI, EHRs, and patient portals have all been instrumental in making healthcare more efficient, effective, and accessible. While challenges such as cyber security and healthcare disparities must be addressed, the role of technology in healthcare delivery transformation is only set to grow in the coming years. By leveraging technology to its full potential, healthcare providers can improve patient outcomes, reduce costs, and provide better care to patients.

References

1. Carroll, Kathleen M., Samuel A. Ball, Charla Nich and Steve Martino, et al. "Motivational interviewing to improve treatment engagement and outcome in individuals seeking treatment for substance abuse: A multisite effectiveness study." *Drug Alcohol Depend* 81 (2006): 301-312.
2. Del Boca, Frances K., Bonnie McRee, Janice Vendetti and Donna Damon. "The SBIRT program matrix: a conceptual framework for program implementation and evaluation." *Addiction* 112 (2017): 12-22.
3. Horn, Brady P., Cameron Crandall, Alyssa Forcehimes and Michael T. French, et al. "Benefit-cost analysis of SBIRT interventions for substance using patients in emergency departments." *J Subst Abuse Treat* 79 (2017): 6-11.
4. Hounsome, Natalia, Deborah Fitzsimmons, Ceri Phillips and Anita Patel. "Developing core economic outcome sets for asthma studies: a protocol for a systematic review." *BMJ Open* 7 (2017): e017054.
5. Humeniuk, Rachel, Robert Ali, Thomas F. Babor and Michael Farrell, et al. "Validation of the alcohol, smoking and substance involvement screening test (ASSIST)." *Addiction* 103 (2008): 1039-1047.

How to cite this article: Shayevitz, Christina. "The Role of Technology in Transforming Healthcare Delivery." *Int J Pub Health Safety* 8 (2023): 330.