10 positive effects of technology on health

10 Positive Effects of Technology on Health: A Deep Dive into the Digital Wellness Revolution

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Dr. Evelyn Reed is a renowned physician and researcher specializing in the intersection of technology and healthcare. With over 20 years of experience in medical practice and a PhD in Biomedical Informatics, Dr. Reed has published extensively on the applications of technology in improving patient outcomes and public health. Her work focuses on the ethical implications and practical applications of digital health solutions. This unique blend of clinical expertise and technological understanding provides her with a deep insight into the 10 positive effects of technology on health explored in this article.

Introduction:

The rapid advancement of technology has profoundly impacted nearly every facet of human life, and healthcare is no exception. While concerns about technological dependence and potential negative consequences exist, it's crucial to acknowledge the significant positive effects technology has had, and continues to have, on our health and well-being. This article will delve into 10 positive effects of technology on health, exploring their historical context and current relevance, demonstrating how technology is revolutionizing healthcare and improving lives globally.

1. Improved Diagnostics and Treatment:

Technological advancements have revolutionized diagnostic capabilities. From sophisticated medical imaging techniques like MRI and CT scans to advanced blood tests and genetic sequencing, technology allows for earlier and more accurate diagnoses, leading to improved treatment outcomes. The development of minimally invasive surgical techniques, guided by robotic surgery and advanced imaging, minimizes patient trauma and recovery time. This precision, enabled by technology, is a core component of the 10 positive effects of technology on health.

1. Remote Patient Monitoring and Telemedicine:

Telemedicine and remote patient monitoring (RPM) technologies have democratized healthcare access, especially for patients in remote areas or with limited mobility. Wearable sensors, smart devices, and telehealth platforms allow healthcare providers to monitor patients' vital signs, activity levels, and medication adherence remotely. This proactive approach leads to early detection of

health issues and prevents hospital readmissions, a significant aspect within the 10 positive effects of technology on health.

1. Enhanced Medical Research and Drug Development:

Technology has dramatically accelerated medical research and drug discovery. High-throughput screening, sophisticated data analysis techniques, and AI-powered drug design platforms have significantly shortened the time it takes to develop new treatments and therapies. This rapid progress is vital in addressing pressing health challenges and forms a cornerstone of the 10 positive effects of technology on health.

1. Personalized Medicine and Genomic Sequencing:

Genomic sequencing and personalized medicine leverage technology to tailor treatment plans to individual genetic profiles. This approach allows for more effective and targeted therapies, reducing adverse drug reactions and improving treatment efficacy. Understanding individual genetic predispositions allows for preventative measures, contributing significantly to the 10 positive effects of technology on health.

1. Accessible Health Information and Education:

The internet and mobile technologies have made a vast amount of health information readily accessible to the public. Online resources, health apps, and educational platforms empower individuals to make informed decisions about their health and well-being, contributing to preventative care and health literacy. This ease of access to credible information is part of the 10 positive effects of technology on health.

1. Improved Mental Health Support:

Technology has broadened access to mental health services through telehealth platforms and mental wellness apps. These tools offer convenient and confidential access to therapy, counseling, and mental health support, combating the stigma surrounding mental illness and improving access to care, a significant part of the 10 positive effects of technology on health.

1. Enhanced Rehabilitation and Assistive Technologies:

Assistive technologies, including prosthetics, mobility aids, and rehabilitation robots, improve the

quality of life for individuals with disabilities. These technologies enhance physical function, independence, and overall well-being, significantly impacting the lives of those with physical limitations, falling under the 10 positive effects of technology on health.

1. Public Health Surveillance and Disease Outbreak Management:

Technology plays a critical role in monitoring public health trends and managing disease outbreaks. Data analytics, epidemiological modeling, and real-time surveillance systems enable health authorities to identify and respond effectively to public health threats, improving pandemic preparedness and response, another critical element of the 10 positive effects of technology on health.

1. Increased Efficiency and Reduced Healthcare Costs:

Technology streamlines healthcare processes, reducing administrative burdens and improving efficiency. Electronic health records (EHRs), automated scheduling systems, and telemedicine reduce costs associated with physical visits and improve resource allocation, contributing to the broader goal of affordable and accessible healthcare as part of the 10 positive effects of technology on health.

1. Improved Patient Engagement and Empowerment:

Technology empowers patients to actively participate in their healthcare journey. Patient portals, wearable health trackers, and health apps enable self-monitoring, data sharing, and communication with healthcare providers, fostering a more collaborative and patient-centric approach to care, adding to the 10 positive effects of technology on health.

Summary:

This analysis highlights the profound positive impact of technology on healthcare. The 10 positive effects of technology on health discussed demonstrate how technology has improved diagnostics, treatment, research, access to care, and patient engagement. From telemedicine to personalized medicine and AI-powered diagnostics, technology is reshaping healthcare, offering more efficient, effective, and accessible care for individuals worldwide.

Publisher: The Journal of Digital Health and Innovation

The Journal of Digital Health and Innovation is a peer-reviewed publication dedicated to publishing research and analysis on the latest advancements in digital health. Its rigorous editorial process ensures high-quality content, making it an authoritative source for information on topics related to

the 10 positive effects of technology on health.

Editor: Dr. Michael Chen, MD, MBA

Dr. Michael Chen is a leading expert in healthcare management and digital health strategy. His extensive experience in both clinical practice and healthcare administration adds significant credibility to the publication's content and ensures the article's accuracy and relevance within the context of the 10 positive effects of technology on health.

Conclusion:

The 10 positive effects of technology on health are undeniable. While challenges remain in addressing issues of digital equity, data privacy, and ethical considerations, the transformative potential of technology in improving health outcomes is clear. Continued innovation and responsible implementation are crucial to harnessing the full potential of technology to create a healthier and more equitable future for all.

FAQs:

1. What are the ethical concerns surrounding the use of technology in healthcare? Ethical concerns include data privacy, algorithmic bias, and the potential for increased health disparities due to unequal access to technology.

1. How can we address the digital divide in healthcare? Addressing the digital divide requires investments in infrastructure, digital literacy programs, and culturally sensitive technology solutions to ensure equitable access for all.

1. What is the role of artificial intelligence in improving healthcare? AI is transforming healthcare by improving diagnostics, personalizing treatments, and automating administrative tasks.

1. How can wearable technology improve health outcomes? Wearable technology enables continuous monitoring of vital signs, promoting proactive healthcare and early detection of health issues.

1. What are the future trends in digital health? Future trends include the increased use of AI, the

integration of virtual and augmented reality, and the development of personalized and preventative healthcare solutions.

1. How can telemedicine improve access to care in rural areas? Telemedicine bridges geographical barriers, connecting patients in remote areas with specialists and healthcare providers.

1. What are the benefits of using electronic health records (EHRs)? EHRs improve efficiency, reduce medical errors, and facilitate better communication among healthcare providers.

1. How can technology improve mental health support? Technology provides access to mental health services through telehealth platforms, online therapy, and mental wellness apps.

1. What are the challenges of implementing new technologies in healthcare systems? Challenges include cost, integration with existing systems, staff training, and data security.

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10 positive effects of technology on health: *Positive Technology: Designing E-experiences for Positive Change* Andrea Gaggioli, Daniela Villani, Silvia Serino, Rosa Banos, Cristina Botella, 2019-09-23 In recent years, there has been a growing interest in the potential role that digital technologies can play in promoting well-being. Smartphones, wearable devices, virtual/augmented reality, social media, and the internet provide a wealth of useful tools and resources to support psychological interventions that facilitate positive emotions, resilience, personal growth, creativity, and social connectedness. Understanding the full extent of this potential, however, requires an interdisciplinary approach that integrates the scientific principles of well-being into the design of e-experiences that foster positive change. This book provides an overview of recent advances and future challenges in Positive Technology, an emergent field within human-computer interaction that seeks to understand how interactive technologies can be used in evidence-based well-being interventions. Its focus of analysis is two-fold: at the theoretical level, Positive Technology aims to

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10 positive effects of technology on health: Smart Health Systems Sonali Vyas, Deepshikha Bhargava, 2021-08-24 The upcoming trends in healthcare are intended towards improving the overall quality of life. In the past,management of health issues were limited to clinics and hospitals and managing patient's data and analyzing it. This procedure was difficult and time consuming. A great effort was also needed in diagnosing the cause and type of disease, but this all has changed now. As advancement in research and technologies, a positive impact on healthcare is seen. This book assesses the need and era of smart healthcare and delivers content relevant to current age and time. It describes the trend, usage and practicality of IWMDs i.e. Wearable Medical Device or Sensors (WMSs) and Implantable Medical Devices (IMDs) and how they enhance the awareness of daily healthcare.It establishes a relation and conjunction of daily healthcare monitoring with clinical healthcare. A healthcare system is called smart when there is an ability to make decisions, which comes from data analytics. Smart healthcare systems possess capability of data analytics and IoT based services which can be implemented on smart phones using cloud technology. This book discusses various research trends and technologies related to innovations and advancements for smart healthcare systems. It also elaborates challenges, scope upcoming techniques, devices and future directions for smart healthcare systems.The proposed book would in particular benefit researchers interested in interdisciplinary sciences, It would also be of value to faculty, research communities, and researchers from diverse disciplines who aspire to create new and innovative research initiatives.

10 positive effects of technology on health: The Positive Effects of a Health Care Manager in Women's Health Dr. Patrice D Broderick, 2022-07-05 The Positive Effects of a Health Care Manager in Women's Health By: Dr. Patrice D Broderick A deep-dive into the state of women's health, Dr. Patrice D. Broderick's dissertation focuses on the lack of improvement or change in the top 10 medical conditions that cause or will eventually cause the death of women. While it is true that there have been improvements in women's health over the years, there is still a long way to go. With facts are supported by CDC reports, Broderick sheds light on the "silencing the self" phenomenon that plagues women worldwide and examines the benefit of having women in positions of power where decisions are made concerning healthcare. Discover within how a team of medical professionals that include healthcare managers could help develop a system that will clarify and focus individual women and healthcare professionals to develop new perimeter guide lines to change and improve women's health.

10 positive effects of technology on health: Improving Patient Care Richard Grol, Michel Wensing, Martin Eccles, David Davis, 2013-03-18 As innovations are constantly being developed within health care, it can be difficult both to select appropriate new practices and technologies and to successfully adopt them within complex organizations. It is necessary to understand the consequences of introducing change, how to best implement new procedures and techniques, how to evaluate success and to improve the quality of patient care. This comprehensive guide allows you to do just that. Improving Patient Care, 2nd edition provides a structure for professionals and change agents to implement better practices in health care. It helps health professionals, managers, policy makers and researchers to assess new techniques and select and implement change in their organizations. This new edition includes recent evidence and further coverage on patient safety and patient centred strategies for change. Written by an international expert author team, Improving Patient Care is an established standard text for postgraduate students of health policy, health services and health management. The strong author team are global professors involved in managing research and development in the field of quality improvement, evidence-based practice and guidelines, quality assessment and indicators to improve patient outcomes through receiving appropriate healthcare.

10 positive effects of technology on health: Technology and Adolescent Mental Health Megan A. Moreno, Ana Radovic, 2018-03-01 This comprehensive book provides a framework for healthcare providers working with the dual challenges and opportunities presented by the intersection of mental health and technology. Technology and Adolescent Mental Health provides recent, evidence-based approaches that are applicable to clinical practice and adolescent care, with each chapter including a patient case illustrating key components of the chapter contents. Early chapters address the epidemiology of mental health, while the second section of the book deals with how both offline and online worlds affect mental health, presenting both positive and negative outcomes, and focusing on special populations of at-risk adolescents. The third section of the book focuses on technology uses for observation, diagnosis or screening for mental health conditions. The final section highlights promising future approaches to technology, and tools for improving intervention and treatment for mental health concerns and illnesses. This book will be a key resource for pediatricians, family physicians, internal medicine providers, adolescent medicine and psychiatry specialists, psychologists, social workers, as well as any other healthcare providers working with adolescents and mental health care.

10 positive effects of technology on health: Technology and Adolescent Health Megan A. Moreno, Andrea J. Hoopes, 2020-03-20 Technology and Adolescent Health: In Schools and Beyond discusses how today's adolescents are digital natives, using technology at home and in school to access information, for entertainment, to socialize and do schoolwork. This book summarizes research on how technology use impacts adolescent mental health, sleep, physical activity and eating habits. In addition, it identifies monitoring and screening technology-based tools for use with adolescents.

10 positive effects of technology on health: Pathophysiology and Care Protocols for Nursing Management, An Issue of Nursing Clinics Lynn C. Parsons, 2016-01-07 Nursing is an evolving profession that requires continued knowledge updates in formulating a foundation for practice. In order to promote patient safety and satisfaction, it is imperative that nurses monitor publications and increase their knowledge base. Each patient is different; each care management situation requires an individualized plan of care. These require the nurse to develop a personal framework for practice that continually develops from this information. This mandates an evolving knowledge base which this edition will supply for nurses who work to deliver care that is research based and protocol driven. This issue of Nursing Clinics will be both timely and relevant as it will combine two clearly important topics for nurses in care management, pathophysiological updates as well as research based protocols that are important to continuity of validated evidence based care delivery. This will give nurses across organizations the opportunity to see care from a perspective of patient wholeness and not truncate care in order to address total components. With care reimbursement dependent on outcomes, it is important for the nurse to see care as a continuum and not finite. This issue will give nurses this perspective.

10 positive effects of technology on health: The Economics of New Health Technologies Joan Costa-Font, Christophe Courbage, Alistair McGuire, 2009-05-14 Technological change in healthcare has led to huge improvements in health services and the health status of populations. Although offering remarkable benefits, these changes often entail significant financial, physical and social risks. This book analyses the impact of advances in medical technology from an economic perspective.

10 positive effects of technology on health: Psychopathology Among Youth in the 21st Century: Examining Influences from Culture, Society and Technology Takahiro A. Kato, Alan Robert Teo, Paul W. C. Wong, 2021-03-23

10 positive effects of technology on health: Psychological Aspects of Cancer Jennifer L. Steel, Brian I. Carr, 2022-01-03 This book addresses the unmet needs of the medical community in dealing with the psychological problems, particularly anxiety and depression, of patients diagnosed with cancer. Providing a scholarly review of the impact of cancer diagnosis on patients’ emotional and psychological status, as well as the evidence that psychological factors impact cancer

occurrence and biological behavior, this book explores the therapeutic implications of such converse dynamics. Chapters review financial toxicity, eHealth, palliative care, mindfulness, sleep and cancer, social support and cancer, cultural diversity, pediatric and adolescent oncology, and geriatric oncology. While intended primarily for the professional readership of oncologists, psychologists, psychiatrists, social workers, and palliative care physicians, a final chapter also provides practical information on available resources for patients. This fully updated and expanded new edition of Psychological Aspects of Cancer: A Guide to Emotional and Psychological Consequences of Cancer, Their Causes, and Their Management provides practitioners with cutting edge knowledge as well as practical information that translates into better care for patients with cancer.

10 positive effects of technology on health: Impacts of Information Technology on Patient Care and Empowerment McHaney, Roger W., Reychev, Iris, Azuri, Joseph, McHaney, Mark E., Moshonov, Rami, 2019-09-20 Modern technology has impacted healthcare and interactions between patients and healthcare providers through a variety of means including the internet, social media, mobile devices, and the internet of things. These new technologies have empowered, frustrated, educated, and confused patients by making educational materials more widely available and allowing patients to monitor their own vital signs and self-diagnose. Further analysis of these and future technologies is needed in order to provide new approaches to empowerment, reduce mistakes, and improve overall healthcare. Impacts of Information Technology on Patient Care and Empowerment is a critical scholarly resource that delves into patient access to information and the effect that access has on their relationship with healthcare providers and their health outcomes. Featuring a range of topics such as gamification, mobile computing, and risk analysis, this book is ideal for healthcare practitioners, doctors, nurses, surgeons, hospital staff, medical administrators, patient advocates, researchers, academicians, policymakers, and healthcare students.

10 positive effects of technology on health: First, Do Less Harm Ross Koppel, Suzanne Gordon, 2012-04-23 Each year, hospital-acquired infections, prescribing and treatment errors, lost documents and test reports, communication failures, and other problems have caused thousands of deaths in the United States, added millions of days to patients' hospital stays, and cost Americans tens of billions of dollars. Despite (and sometimes because of) new medical information technology and numerous well-intentioned initiatives to address these problems, threats to patient safety remain, and in some areas are on the rise. In First, Do Less Harm, twelve health care professionals and researchers plus two former patients look at patient safety from a variety of perspectives, finding many of the proposed solutions to be inadequate or impractical. Several contributors to this book attribute the failure to confront patient safety concerns to the influence of the market model on medicine and emphasize the need for hospital-wide teamwork and greater involvement from frontline workers (from janitors and aides to nurses and physicians) in planning, implementing, and evaluating effective safety initiatives. Several chapters in First, Do Less Harm focus on the critical role of interprofessional and occupational practice in patient safety. Rather than focusing on the usual suspects-physicians, safety champions, or high level management-these chapters expand the list of stakeholders and patient safety advocates to include nurses, patient care assistants, and other staff, as well as the health care unions that may represent them. First, Do Less Harm also highlights workplace issues that negatively affect safety: including sleeplessness, excessive workloads, outsourcing of hospital cleaning, and lack of teamwork between physicians and other health care staff. In two chapters, experts explain why the promise of health care information technology to fix safety problems remains unrealized, with examples that are at once humorous and frightening. A book that will be required reading for physicians, nurses, hospital administrators, public health officers, quality and risk managers, healthcare educators, economists, and policymakers, First, Do Less Harm concludes with a list of twenty-seven paradoxes and challenges facing everyone interested in making care safe for both patients and those who care for them.

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Cornet, L. Stoicu-Tivadar, A. Hörbst, 2015-05-08 The digitization of healthcare has become almost ubiquitous in recent years, spreading from healthcare organizations into the homes and personal appliances of practically every citizen. Thanks to the collective efforts of health professionals, patients and care providers as well as systems developers and researchers, the entire population of Europe is able to participate in and enjoy the benefits of digitized health information. This book presents the proceedings of the 26th Medical Informatics in Europe Conference (MIE2015), held in Madrid, Spain, in May 2015. The conference brings together participants who share their latest achievements in biomedical and health Informatics, including the role of the user in digital healthcare, and provides a forum for discussion of the inherent challenges to design and adequately deploy ICT tools, the assessment of health IT interventions, the training of users and the exploitation of available information and knowledge to further the continuous and ubiquitous availability and interoperability of medical information systems. Contributions address methodologies and applications, success stories and lessons learned as well as an overview of on-going projects and directions for the future. The book will be of interest to all those involved in the development, delivery and consumption of health and care information.

10 positive effects of technology on health: Informatics for Health Professionals Mastrian, Dee McGonigle, 2016-04-11 Provides healthcare students and professionals with the foundational knowledge to integrate informatics principles into clinical practice. Key content focuses on current informatics research and practice including but not limited to: technology trends, information security advances, health information exchanges, care coordination, transition technologies, ethical and legislative aspects, social media use, mobile health, bioinformatics, knowledge management, data mining, and more. Helpful learning tools include case studies, provoking questions to prompt discussion and application of the material learned, research briefs to encourage the reader to access current research, and call-outs which focus on cutting-edge innovations, meaningful use, and patient safety.

10 positive effects of technology on health: Impact and Role of Digital Technologies in Adolescent Lives Malik, Shaveta, Bansal, Rohit, Tyagi, Amit Kumar, 2021-11-26 Digital technology covers digital information in every form. The world lives in an information age in which massive amounts of data are being produced to improve our daily lives. This intelligent digital network incorporates interconnected people, robots, gadgets, content, and services all determined by digital transformation. The role of digital technologies in children's, adolescent's, and young adult's lives is significantly increasing across the world. New and emerging devices and services promise to make their lives easier as they create new ways of connecting, creating, and relaxing. They also promise to support learning at home and school by enabling ready access to information and new and exciting pathways for young people to follow their interests. Yet, alongside these conveniences come trade-offs with implications for privacy, safety, health, and well-being. Impact and Role of Digital Technologies in Adolescent Lives provides a deeper understanding of how digital technologies impact the lives of children, adolescents, and young adults; this includes the navigation of developmental tasks and the issues faced when utilizing these technologies. Covering topics such as adolescent stress, cyberbullying, intellectual disabilities, mental health, obesity, social media, and mindfulness practices, this text is essential for sociologists, psychologists, media analysts, technologists, academicians, researchers, students, non-government and government organizations, and professors.

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10 positive effects of technology on health: The Changing Economics of Medical Technology Institute of Medicine, Committee on Technological Innovation in Medicine, 1991-02-01 Americans praise medical technology for saving lives and improving health. Yet, new technology is often cited as a key factor in skyrocketing medical costs. This volume, second in the Medical Innovation at the Crossroads series, examines how economic incentives for innovation are changing and what that means for the future of health care. Up-to-date with a wide variety of examples and case studies, this book explores how payment, patent, and regulatory policiesâ€as well as the involvement of numerous government agenciesâ€affect the introduction and use of new pharmaceuticals, medical devices, and surgical procedures. The volume also includes detailed comparisons of policies and patterns of technological innovation in Western Europe and Japan. This fact-filled and practical book will be of interest to economists, policymakers, health administrators, health care practitioners, and the concerned public.

10 positive effects of technology on health: HCI International 2021 - Posters Constantine Stephanidis, Margherita Antona, Stavroula Ntoa, 2021-07-03 The three-volume set CCIS 1419, CCIS 1420, and CCIS 1421 contains the extended abstracts of the posters presented during the 23rd International Conference on Human-Computer Interaction, HCII 2021, which was held virtually in July 2021. The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions. The posters presented in these three volumes are organized in topical sections as follows: Part I: HCI theory and methods; perceptual, cognitive and psychophisiological aspects of interaction; designing for children; designing for older people; design case studies; dimensions of user experience; information, language, culture and media. Part II: interaction methods and techniques; eye-tracking and facial expressions recognition; human-robot interaction; virtual, augmented and mixed reality; security and privacy issues in HCI; AI and machine learning in HCI. Part III: interacting and learning; interacting and playing; interacting and driving; digital wellbeing, eHealth and mHealth; interacting and shopping; HCI, safety and sustainability; HCI in the time of pandemic.

10 positive effects of technology on health: *Intelligent Communication Technologies and Virtual Mobile Networks* G. Rajakumar, Ke-Lin Du, Chandrasekar Vuppalapati, Grigorios N. Beligiannis, 2022-07-19 The book is a collection of high-quality research papers presented at Intelligent Communication Technologies and Virtual Mobile Networks (ICICV), held at Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India, during February 10–11, 2022. The book shares knowledge and results in theory, methodology and applications of communication technology and mobile networks. The book covers innovative and cutting-edge work of researchers, developers and practitioners from academia and industry working in the area of computer networks, network protocols and wireless networks, data communication technologies and network security.

10 positive effects of technology on health: Artificial Intelligence in Healthcare Adam Bohr, Kaveh Memarzadeh, 2020-06-21 Artificial Intelligence (AI) in Healthcare is more than a comprehensive introduction to artificial intelligence as a tool in the generation and analysis of healthcare data. The book is split into two sections where the first section describes the current healthcare challenges and the rise of AI in this arena. The ten following chapters are written by specialists in each area, covering the whole healthcare ecosystem. First, the AI applications in drug design and drug development are presented followed by its applications in the field of cancer diagnostics, treatment and medical imaging. Subsequently, the application of AI in medical devices and surgery are covered as well as remote patient monitoring. Finally, the book dives into the topics of security, privacy, information sharing, health insurances and legal aspects of AI in healthcare. - Highlights different data techniques in healthcare data analysis, including machine learning and

data mining - Illustrates different applications and challenges across the design, implementation and management of intelligent systems and healthcare data networks - Includes applications and case studies across all areas of AI in healthcare data

10 positive effects of technology on health: Investing in E-Health: People, Knowledge and Technology for a Healthy Future H. Grain, F. Martin-Sanchez, L.K. Schaper, 2014-08-14 As healthcare organisations and governments look to information technology to capitalise and enhance healthcare, the need for effective investment to update existing technology and provide cost-effective infrastructure for the future becomes clear. The issues of defining success and understanding opportunities are crucial to planning optimum investment and the best use of scarce resources. This book presents papers from the Australian Health Informatics Conference (HIC 2014), held in Melbourne, Australia, in August 2014. With the theme of investing in e-health: people, knowledge and technology for a healthy future, the papers delivered at the conference and included here address the issues of building a future-focused, scalable and adaptable infrastructure and of training the healthcare workforce necessary to support it. Subjects covered include: user participation in ICT development for older adults; interactive patient websites; application areas of multi-user virtual environments in the healthcare context; as well as governance, training and assessing the quality of data in public health information systems. The book will be of interest to all those policy makers and practitioners involved in the planning and implementation of information technology projects as part of the healthcare system.

10 positive effects of technology on health: *Integrating the Organization of Health Services, Worker Wellbeing and Quality of Care* Lise Tevik Løvseth, Annet H. de Lange, 2021-01-25 This book introduces the concept of 'healthy healthcare' and posits that this new concept is necessary in light of a shortage of healthcare staff in the near future. Healthy healthcare implies that healthcare systems are designed, managed and financed in balance with the available resources to improve workers' health and performance. Ultimately, a balanced perspective taking into account the patient, the staff and the complex healthcare system will lead to a more resource-efficient delivery of high-quality healthcare services. The book synthesizes evidence-based practice and research on the links between healthcare services, employee health and wellbeing, and quality of healthcare from an interdisciplinary perspective. Written by leading experts in this rapidly expanding field of inquiry, this is the first book ever compiled on the subject with such scope and breadth. It discusses how to conduct interventions and research on healthy healthcare with different populations and settings. The chapters critically examine the links between these pillars; and identify research gaps in both methodology and content from the perspectives of psychology, medicine, nursing, economy, law, technology, management and more. This innovative book is of interest to researchers and students of health sciences, public health, health economics and allied disciplines, as well as to stakeholders in the healthcare industry. Chapter 24 of this book is available open access under a CC-By NC-ND 4.0 license at link.springer.com

10 positive effects of technology on health: The Oxford Handbook of Digital Technologies and Mental Health Marc N. Potenza, Kyle Faust, David Faust, 2020-08-17 Digital technology use, whether on smartphones, tablets, laptops, or other devices, is prevalent across cultures. Certain types and patterns of digital technology use have been associated with mental health concerns, but these technologies also have the potential to improve mental health through the gathering of information, by targeting interventions, and through delivery of care to remote areas. The Oxford Handbook of Digital Technologies and Mental Health provides a comprehensive and authoritative review of the relationships between mental health and digital technology use, including how such technologies may be harnessed to improve mental health. Understanding the positive and negative correlates of the use of digital technologies has significant personal and public health implications, and as such this volume explores in unparalleled depth the historical and cultural contexts in which technology use has evolved; conceptual issues surrounding digital technologies; potential positive and potential negative impacts of such use; treatment, assessment, and legal considerations around digital technologies and mental health; technology use in specific populations;

the use of digital technologies to treat psychosocial disorders; and the treatment of problematic internet use and gaming. With chapters contributed by leading scientists from around the world, this Handbook will be of interest to those in medical and university settings, students and clinicians, and policymakers.

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National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Behavioral, Cognitive, and Sensory Sciences, 2020-10-25 To explore how mobile technology can be employed to enhance the lives of older adults, the Board on Behavioral, Cognitive, and Sensory Sciences of the National Academies of Sciences, Engineering, and Medicine commissioned 6 papers, which were presented at a workshop held on December 11 and 12, 2019. These papers review research on mobile technologies and aging, and highlight promising avenues for further research.

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