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Case Report

Impact of Digital Health at Cancer Care Polices

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Abstract

The intersection of digital health and cancer care is reshaping the landscape of patient well-being and healthcare delivery. This abstract encapsulates key insights from our exploration

Introduction: Impact of digital health on cancer treatments policies is a concise and clear essay summarizing the impending availability of digital health technologies to front-line cancer care. It discusses the political, additional economic, and ethical problems associated with implementation of digital health technologies and cancer treatment policy making. It presumes that understanding and addressing the complex concerns that underlie this subject is key to realizing how the same influences can be optimally managed and transferred into the improved patient outcomes and efficient healthcare delivery in the near future.(1.2.3)

Background:

Telehealth: Bridging Geographical Gaps

• Context: Imagine a rural village nestled amidst rolling hills. The nearest hospital is hours away.

• Telehealth's Role: Telehealth transcends physical boundaries. It connects patients in remote areas with healthcare providers via virtual consultations. A farmer with worrisome symptoms can now seek expert advice without leaving home. Telehealth bridges the gap, ensuring timely follow-ups and continuity of care.

AI in Healthcare: Precision Unleashed

• Laboratory Scene: Scientists huddle around screens, algorithms dancing across data points.

• AI's Canvas: AI augments diagnostics—detecting subtle patterns in medical images, predicting disease progression, and identifying genetic markers. It assists treatment planning—matching therapies to individual profiles. Personalized care becomes a reality, tailored to each patient's unique needs.

Real-World Evidence (RWE): Guiding Practice

Clinical Meeting: Oncologists pore over patient data, debating treatment options.

• RWE's Voice: Real-world evidence steps forward. It's not just clinical trials; it's the lived experiences of thousands. Did that new drug truly improve survival rates? RWE validates outcomes, shaping guidelines. It's the compass guiding evidence-based decisions in the complex maze of cancer care. (1,2,3)

Methodology

Collaborations for Innovation:

- Objective: Foster partnerships between healthcare providers, tech companies, and policymakers.
- Rationale: Collaborations pool expertise, resources, and diverse perspectives.

Implementation:

- Establish joint working groups.
- Co-create solutions that address specific cancer care challenges.
- Regularly assess progress and adapt strategies6.

Ethical AI and Bias Mitigation

• Importance: AI algorithms play a pivotal role in digital health.

Guidelines

- Develop transparent, interpretable AI models.
- Address biases (gender, racial, and socioeconomic) during model training.
- Rigorously validate AI performance across diverse patient populations7.

Interoperability and data exchange

Critical Aspect: Seamless data sharing across systems.

Recommendations

- Standardize data formats, APIs, and protocols.
- Ensure secure transmission and storage of patient information.
- Enable interoperability between electronic health records and digital health platforms8.

Patient engagement and education

Holistic approach

- Engage patients as active participants in their care journey.
- Educate patients about digital health tools, privacy, and benefits.
- Foster health literacy and empower patients to make informed decisions.

Implementation

- Develop user-friendly interfaces.
- Provide personalized health information.
- Encourage self-management and adherence to treatment plans.(8)

Results

Empowered patients via telehealth and digital tools

• Scene: A cozy living room bathed in sunlight. A cancer patient, Sarah, sits comfortably on her couch, smartphone in hand.

• Narration: Sarah actively manages her health using telehealth and digital tools. With a few taps, she schedules virtual consultations with her oncologist. She monitors her symptoms, logs her daily activities, and receives personalized health tips. Telehealth bridges the gap between Sarah's home and the clinic, empowering her to take charge of her well-being.

AI-driven precision medicine: the quantum leap in diagnostics and treatment

- Laboratory: Scientists huddle around a supercomputer, its screens ablaze with intricate genomic data.
- Scientist 1: "Our AI model just identified a novel genetic mutation linked to aggressive breast cancer."
- Scientist 2: "And look here—the algorithm predicts personalized treatment responses based on individual tumor profiles."

• Narration: AI-driven precision medicine has revolutionized diagnostics. It dissects genetic blueprints, revealing hidden patterns. Clinicians tailor treatments—immunotherapies, targeted drugs, or radiation—precisely to each patient. The days of one-size-fits-all approaches are over. Cancer care now dances to the rhythm of individual genomes.

Cost-Effective Solutions: A Beacon of Hope for All

- Community Health Center: A diverse group of patients gathers in the waiting area.
- Nurse: "Welcome, everyone! Today, we're launching our digital health initiative."

• Narration: Cost-effective solutions emerge, transcending socioeconomic boundaries. Mobile apps guide patients through self-care routines. Wearables track vital signs, catching anomalies early. Remote consultations reduce travel costs. The underserved, once excluded, now benefit. Cancer care becomes an inclusive symphony, harmonizing affordability and quality.

In this grand theater of digital health, patients wield smartphones like magic wands, AI algorithms orchestrate healing, and costeffectiveness paints a brighter canvas. As the curtain rises on this new era, let us applaud the heroes-patients, scientists, and innovators—whose collective efforts illuminate the path toward healthier tomorrows (1.2,3,4,5,6).

Conclusion

- The digital health frontier holds immense promise for cancer care.
- Let us prioritize patient-centeredness, equity, and interdisciplinary collaboration.
- Together, we redefine cancer care for a healthier future

Keywords: Abdalla Abotaleb; Digital Health; Cancer Polices

Introduction

Revolutionizing Healthcare: The Digital Health Era Unveiled

Across the globe, eHealth is reshaping the very fabric of healthcare delivery, ushering in a new era of patient empowerment and technological transformation. Let's dissect this paradigm shift:

Empowered Patients and the Rise of eHealth

- **Scene:** A bustling cityscape with people immersed in their smartphones, accessing health information. (1,2,3,4)
- Narration: The internet's ubiquity has transformed health literacy. In more developed countries, the public is better informed, thanks to eHealth. Patients now take center stage, actively managing their well-being. The NHS symptom checker exemplifies this shift-a virtual guide empowering users to self-assess symptoms, seek timely advice, and make informed decisions.

Chronic disease management: EHEALTH'S focal point

- Hospital Corridor: Patients with chronic conditions-diabetes, heart disease, and cancer—navigate the corridors.
- Patient Voice: "My app reminds me to take my medication and connects me with support groups." (1,2,3,4)
- Narration: eHealth caters to the largest consumer base-those battling chronic diseases. They wield technology to access information, connect with peers, and find solace. Cancer, with its global prevalence, demands our attention. eHealth becomes a lifeline, bridging gaps in care and fostering resilience.

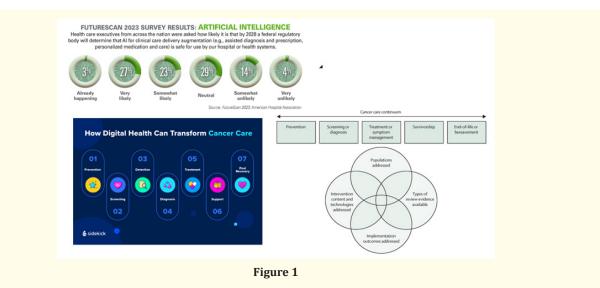
Digital health defined: The convergence of genomics and wellbeing

• Laboratory: Scientists huddle around screens displaying genomic sequences.

Citation: Abdalla Abotaleb. "Impact of Digital Health at Cancer Care Polices". Acta Scientific Cancer Biology 8.5 (2024): 09-23.

- Scientist 1: "Our EHR system now integrates genetic profiles."
- Scientist 2: "And telemedicine links rural clinics to expert oncologists."
- *Narration*: Digital health encompasses electronic tools (like EHRs) and telemedicine. It marries genomics, community health, and individual well-being. The World Health Assembly beckons us to strategize-a global symphony harmonizing ICT capacity and healthcare provision (1-4).

Impact of digital health on cancer treatments policies is a concise and clear essay summarizing the impending availability of digital health technologies to front-line cancer care. It discusses the political, additional economic, and ethical problems associated with implementation of digital health technologies and cancer treatment policy making. It presumes that understanding and addressing the complex concerns that underlie this subject is key to realizing how the same influences can be optimally managed and transferred into the improved patient outcomes and efficient healthcare delivery in the near future (1-4).



Overview of digital health technologies In cancer

digital health technologies in cancer:

Telehealth and Cancer Care:

- Telehealth has seen significant growth in recent years, enhancing healthcare access and quality.
- Research shows that telehealth can improve patient-provider communication, health outcomes, and cancer care delivery.
- Aspects of cancer care, such as promoting positive health behaviors, cancer screening, symptom management during treatment, and virtual survivorship follow-up, can be effectively delivered through telehealth.
- The Telehealth Research Centers of Excellence (TRACE) initiative, supported by the Cancer Moonshot, aims to rapidly develop an evidence base for telehealth approaches in cancer care. It focuses on addressing disparities, fostering innovations, and evaluating policy changes¹.

Patient-Provider Communication:

- DCCPS (Division of Cancer Control and Population Sciences) diversifies digital health funding by exploring the effects of digital tools on patient-provider communication.
- Funded projects leverage diverse tools, including remote symptom monitoring, electronic medical records, mobile apps, and artificial intelligence (AI), to enhance communication across the cancer control continuum [1].

Exploring Emerging Technologies:

- DCCPS collaborates with NIH, NSF, and the federal government to support over 15 funding opportunities related to digital health and evolving technologies.
- Partnerships aim to accelerate innovative approaches that combine technology, data science, and biomedical research to improve cancer care [1].

In summary, digital health technologies play a fundamental role in cancer care by enhancing diagnosis, monitoring, precision medicine, and healthcare access [2,3]. For more detailed information, you can refer to the

The crucial role of digital health in cancer treatment policies

Digital health technologies have emerged as **game-changers** in cancer care, revolutionizing how we approach prevention, diagno-

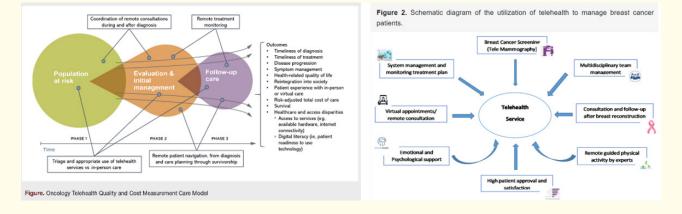


Figure 2: Schematic diagram of the utilization of telehealth to manage breast cancer patients.

sis, treatment, and survivorship. Let's delve into the significance of digital health within cancer treatment policies: (6.7.8,9,10,11)

Telehealth and Cancer Care

- **Telehealth**, a key component of digital health, has witnessed rapid adoption globally.
- Research demonstrates that telehealth can enhance healthcare access, improve patient-provider communication, and positively impact health outcomes.

In the context of cancer care, telehealth facilitates:

- **Health Behavior Promotion**: Encouraging positive lifestyle changes.
- Cancer Screening: Enabling remote screening and early detection.
- Symptom Management: Monitoring and addressing symptoms during treatment.
- **Survivorship Follow-Up**: Providing virtual follow-up care for cancer survivors.

The Telehealth Research Centers of Excellence (TRACE) initiative, supported by the Cancer Moonshot, accelerates evidencebased telehealth approaches across the cancer continuum [1].

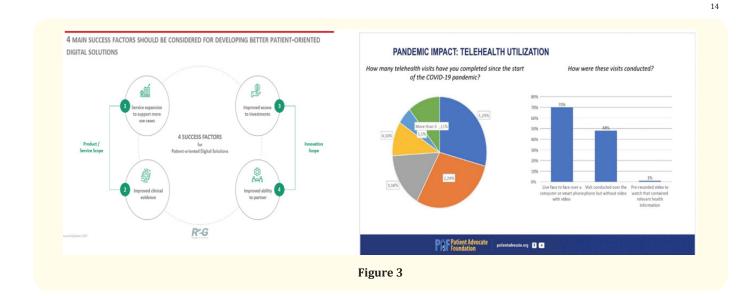
Patient-Centered Care:

- Digital health shifts the focus from doctor-directed care to **patient-centered models**.
- Patients actively engage in managing their health using tools like symptom checkers and mobile apps.
- Empowering patients with information and resources improves overall cancer care delivery. (8.9.11)

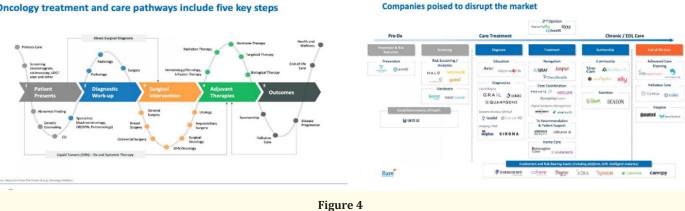
Chronic disease management

- Individuals with chronic conditions constitute a significant user base for eHealth solutions.
- They leverage technology to access information, support, and self-management tools.
- Digital health empowers patients to navigate their cancer journey effectively.

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Research and engagement

- Digital health enhances participant reach and engagement • in clinical trials, behavioral studies, and epidemiological research.
- Patient-reported outcomes, real-time monitoring, and data • collection contribute to better understanding of cancer risk factors. (11,12,13)
- Researchers can harness digital tools to advance cancer pre-• vention and control.

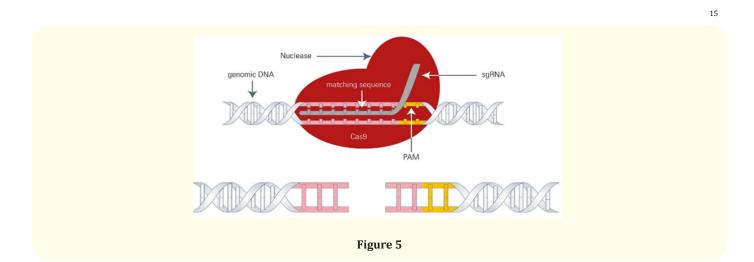
Government-wide support

Collaborations within NIH, NSF, and federal agencies drive • funding opportunities for digital health.

- Initiatives like the NIH-National Science Foundation Smart • Health program promote innovative approaches.
- These partnerships aim to integrate technology, data science, and biomedical research for better cancer care [1-3].

Digital Health innovations transforming cancer care

In the dynamic landscape of cancer treatment, digital health innovations are revolutionizing how we approach this formidable disease. Let's explore some groundbreaking technologies that hold immense promise



CRISPR: Precision Gene Editing

- CRISPR (Clustered Regularly Interspaced Short Palindromic Repeats) is a game-changing gene-editing tool.
- It acts like molecular scissors, allowing precise modification of DNA within living cells.
- Researchers can delete, insert, or edit specific genetic sequences, opening new avenues for cancer therapy.
- Clinical trials are exploring CRISPR-made immunotherapies and direct in-body applications.
- While ethical debates persist, CRISPR's potential impact on cancer research is undeniable¹.

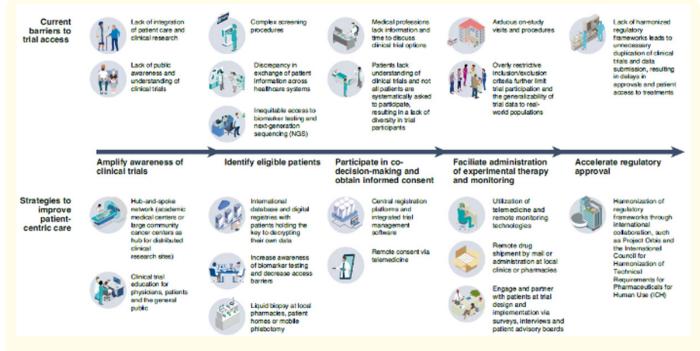


Figure 6: Patient-Centric caner clinical trails improve access, Diversity accelerate backtroughs.

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Artificial intelligence (AI)

- AI leverages computer programming to enhance cancer diagnosis, drug development, and precision medicine.
- It excels at analyzing vast datasets, identifying patterns, and predicting outcomes.
- Researchers create digital twins, virtual models of patients, to simulate treatments and personalize care options.
- AI also tailors radiation doses, estimates cancer probabilities, and transforms cancer care delivery¹.

Telehealth

- Telehealth brings cancer care, treatment, and clinical trials directly to patients.
- Remote consultations, virtual follow-ups, and real-time monitoring improve accessibility.
- Patients actively engage in managing their health, fostering patient-centered care. (2.3.4)

Cryo-electron microscopy (Cryo-EM)

- Cryo-EM generates high-resolution images of molecular behavior.
- These insights inform cancer treatment strategies.
- Understanding cellular structures at atomic levels accelerates drug discovery. (2,3,4)

Robotic surgery

- Robotic-assisted surgeries enhance precision and minimize invasiveness.
- Surgeons use robotic systems for tumor removal, lymph node dissection, and reconstructive procedures.
- Faster recovery times and reduced complications benefit cancer patients. (1)

Artificial intelligence (ai) in treatment decision-making

In the realm of healthcare, AI is a transformative force, enhancing diagnostics, decision-making, and patient care. Let's delve into its pivotal role in treatment decision-making

Clinical decision support (CDS)

- AI-powered CDS technologies analyze vast patient data, extracting meaningful insights for healthcare providers.
- These insights guide treatment decisions by identifying patterns, predicting outcomes, and suggesting personalized approaches.
- Clinicians can leverage AI-generated recommendations to optimize health outcomes¹.

Enhanced error detection

- AI systems excel at detecting errors and anomalies.
- By evaluating data comprehensively, they minimize diagnostic oversights and improve treatment accuracy.
- Early detection of potential issues allows timely intervention and better patient outcomes³.

Stratification of patients

- AI algorithms stratify patients based on risk factors, disease severity, and treatment response.
- This personalized approach ensures tailored interventions, optimizing resource allocation and patient care.

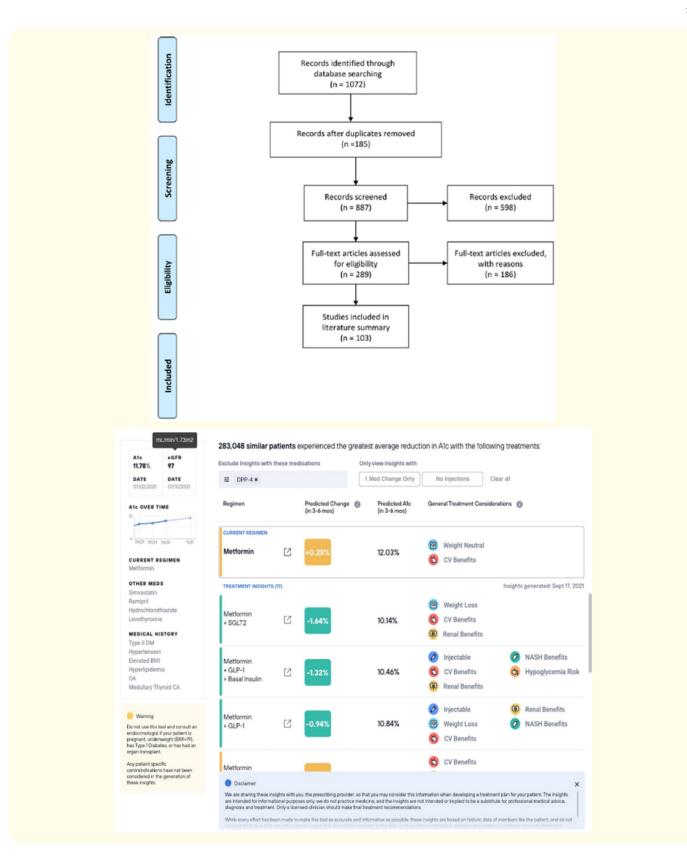
Shared decision-making

- AI empowers clinicians, patients, and families to process available data efficiently.
- Evidence-based recommendations facilitate shared decisionmaking.
- Together, they identify the most suitable treatment path for each individual².

Values-based approach

- When using AI in clinical care, a values-based guide ensures ethical decision-making.
- Balancing technological insights with patient preferences and values leads to informed choices⁴.

Impact of Digital Health at Cancer Care Polices



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Treatment Costs Metformin \$4.00 - \$7.00 / mo Image: Remove SGLT2 \$530.00 - \$650.00 / mo Image: Remove TZD - Thiszolidinediones \$11.00 - \$17.00 / mo. Image: Remove	st Overall Insight Choice	Expected A1C Char 10.56	-1.22 🧭 Switch
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Participant Notification	Role Type Count	
PCP 1-15	Primary care provided (MD/DO) 14	
NPPA 1-18	Nurse Pracitioner (NP)/ Physician Assistant (PA) 18	
Endo 1-5	Endocrinologist (MD/DO) 15	
Pharmacist 1-2	Pharmacist 2	
1M 1-2	Internal Medicine (MD/DO) 2	
Total	41	

Table 1: Participants.

The future directions and recommendations for advancing digital health in cancer care:

Interoperability and Data Sharing:

- **Future Direction**: Establishing seamless interoperability across health systems, electronic health records (EHRs), and digital health platforms.
- **Recommendation**: Standardize data formats, APIs, and protocols to enable secure data exchange. This facilitates comprehensive patient profiles, enhances research, and supports personalized treatment decisions.

Ethical AI and Bias mitigation

- **Future Direction**: Developing AI algorithms that are transparent, fair, and unbiased.
- **Recommendation**: Regularly audit AI models to identify and rectify biases. Ensure transparency in decision-making processes to build trust among patients and clinicians. (13.14.15)

Patient engagement and education

- **Future Direction**: Empowering patients through education and active participation.
- **Recommendation**: Create user-friendly interfaces, educational materials, and personalized health dashboards. Educate patients about digital health benefits, privacy, and security. (13.14.15)

Telehealth Expansion

- **Future Direction**: Widening telehealth adoption beyond urban centers.
- **Recommendation**: Invest in infrastructure, broadband connectivity, and reimbursement policies. Ensure equitable access for rural and underserved populations. (13.14.15)

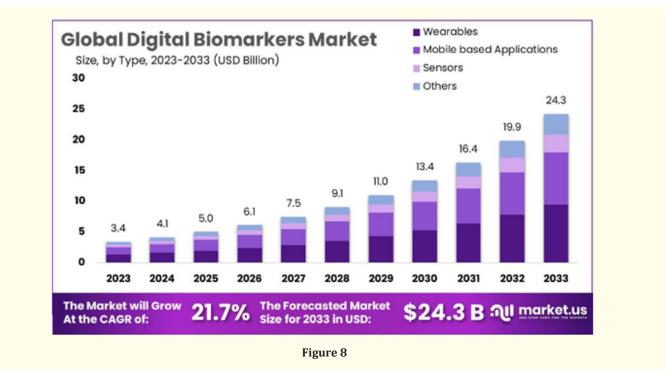
Real-world evidence (RWE)

• **Future Direction**: Leveraging RWE from digital health platforms.

• **Recommendation**: Collaborate with researchers, industry, and regulatory bodies to validate real-world outcomes. RWE informs treatment guidelines, drug approvals, and health policies. (13.14.15)

Behavioral health integration

- **Future Direction**: Integrating mental health and well-being into digital health solutions.
- **Recommendation**: Develop tools that address emotional, psychological, and social aspects of cancer care. Support patients holistically.



Personalized digital therapeutics

- Future Direction: Tailoring interventions based on individual needs.
- **Recommendation**: Combine AI, wearables, and patient-generated data to create personalized treatment plans. Optimize adherence and outcomes.

Cybersecurity and privacy

- Future Direction: Strengthening security measures.
- **Recommendation**: Implement robust encryption, authentication, and access controls. Safeguard patient data against cyber threats. (13.14.15)

Collaboration and Funding:

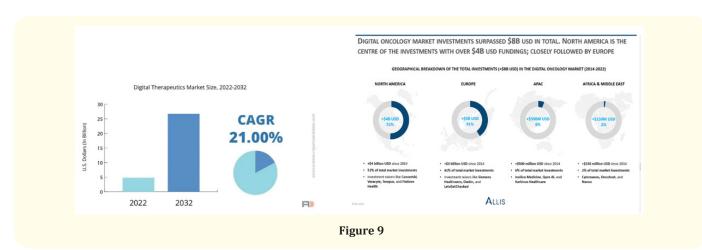
• Future Direction: Fostering interdisciplinary collaboration.

Recommendation: Governments, academia, industry, and patient advocacy groups should collaborate. Allocate sustained funding for digital health research and implementation. (13.14.15)

Regulatory Frameworks:

- **Future Direction**: Evolving regulations to keep pace with technological advancements.
- Recommendation: Regulatory bodies should engage with experts, adapt guidelines, and facilitate innovation while ensuring patient safety. (13.14.15)

Collaboration between healthcare providers and technology companies holds immense potential for advancing patient care and optimizing healthcare processes. Here are some key recommendations: (13.14.15)



Tailored Solutions

- **Benefit**: Developing partnerships allows customized solutions that address specific patient needs.
- Action: Healthcare providers and tech companies should collaborate to create tailored tools, applications, and services that enhance patient outcomes [2].

Accelerating Technology Adoption

- **Benefit**: Collaborations can expedite the adoption of innovative technologies in healthcare.
- Action: Providers and tech firms should work together to implement novel solutions that improve diagnostics, treatment, and patient experience [2].

Cost Reduction

- Benefit: Effective partnerships can lead to cost savings.
- Action: By jointly developing efficient processes, optimizing resource utilization, and leveraging technology, providers and tech companies can reduce overall healthcare costs [4].

Interoperability and Data Sharing

- **Benefit**: Seamless data exchange enhances patient care and decision-making.
- Action: Establish standardized data formats, APIs, and protocols to enable secure information sharing between providers and tech partners [5].

Ethical Ai and bias mitigation

- Benefit: Transparent and unbiased AI models improve diagnostics and treatment planning.
- Action: Tech companies should audit AI algorithms, address biases, and build trust with healthcare providers [1].

Patient engagement and education

- **Benefit**: Empowering patients through education and digital tools.
- Action: Create user-friendly interfaces, educational materials, and personalized health dashboards to enhance patient engagement [6].

Telehealth expansion

- Benefit: Widening access to healthcare beyond urban centers.
- Action: Invest in infrastructure, broadband connectivity, and reimbursement policies to ensure equitable telehealth services [7].

Real-world evidence (RWE)

- **Benefit**: Leveraging RWE from digital health platforms.
- Action: Collaborate with researchers and regulatory bodies to validate real-world outcomes and inform treatment guide-lines [8].

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Behavioral Health Integration:

- Benefit: Addressing emotional and psychological aspects of care.
- Action: Develop tools that support holistic patient well-being and mental health¹.

Collaboration and Funding:

- Benefit: Interdisciplinary collaboration drives innovation.
- Action: Governments, academia, industry, and patient advocacy groups should collaborate and allocate sustained funding for digital health research

Policy frameworks and recommendations for the effective implementation of digital health technologies in cancer care The Australian Digital Health in Cancer Care Roadmap:

- **Purpose**: This roadmap supports best practices in developing, adopting, and evaluating digital technology in cancer care in Australia.
- Audience: Health care professionals, consumers, researchers, policy makers, and technology developers.

Key aspects

- Addressing digital exclusion.
- Focusing on consumer-driven frameworks.
- Unique considerations for cancer care.
- Limited evidence for quality digital health in cancer.
- Stakeholder consultation and consensus processes [9,10].

Evaluating Telehealth Policies

- **Context**: The changing policy, payment, and communication environments impact telehealth delivery for cancer care.
- Recommendation: Regularly assess and adapt telehealth policies to ensure accessibility, scalability, and cost-effectiveness [3].

Ethical AI and Bias mitigationtion items

- Regularly audit AI models.
- Address biases.
- Build trust with healthcare providers [11].

Patient engagement and education

• **Objective**: Empower patients through education and active participation.

Implementation

- Create user-friendly interfaces.
- Develop personalized health dashboards.
- Educate patients about digital health benefits, privacy, and security [12].

Interoperability and Data Sharing:

• **Importance**: Seamless data exchange enhances patient care and decision-making.

Recommendation

- Standardize data formats, APIs, and protocols.
- Enable secure information sharing between providers and tech partners [13].

Behavioral health integration

- Focus: Address emotional and psychological aspects of care. Approach
- Develop tools supporting holistic patient well-being.
- Integrate mental health resources into digital health platforms [14].

Collaboration and Funding:

• Essential Element: Interdisciplinary collaboration.

Action Items

- Collaborate across governments, academia, industry, and patient advocacy groups.
- Allocate sustained funding for digital health research and implementation [15].

Real-world evidence (RWE)

Leverage RWE

- Validate real-world outcomes.
- Inform treatment guidelines, drug approvals, and health policies [1].

Cost reduction strategies

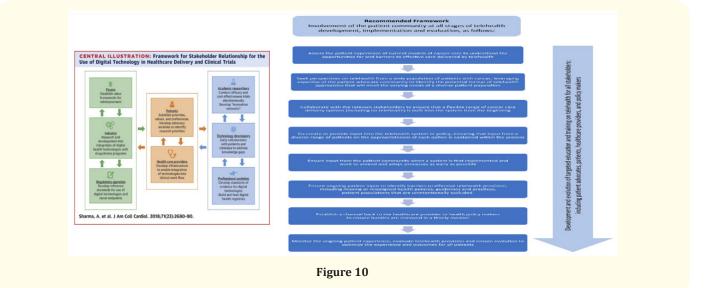
Collaboration approach

- Jointly develop efficient processes.
- Optimize resource utilization.
- Leverage technology to reduce overall healthcare costs [16].

Regulatory Frameworks

Adaptation

• Evolve regulations to keep pace with technological advancements.



Conclusion

Pioneering the digital health frontier in cancer care

The convergence of digital health and cancer care heralds a transformative era. From telehealth to AI, we stand at the precipice of patient-centered, data-driven solutions. Here's our succinct takeaway:

- Empowered Patients: Telehealth bridges gaps, enabling • patients to actively manage their health. The NHS symptom checker exemplifies this shift.
- AI Precision: Artificial intelligence augments diagnostics, treatment planning, and personalized care. CRISPR and AIdriven digital twins promise breakthroughs.
- Policy Imperatives: Collaborations between healthcare providers, tech companies, and policymakers are vital. Interoperability, ethical AI, and real-world evidence must guide our path.
- summary of the key points regarding digital health technologies in cancer care

Digital Health Innovations in Cancer Care: A Summary

Digital health technologies are reshaping cancer care, empowering patients, and transforming healthcare delivery. Let's distill the essential insights:

Telehealth and patient-centered care

- Telehealth enhances communication, symptom manage-• ment, and survivorship follow-up.
- Patients actively engage in managing their health.
- The TRACE initiative accelerates evidence-based telehealth • approaches.

AI in treatment decision-making

- AI aids clinical decision support, error detection, and patient • stratification.
- Shared decision-making and a values-based approach are • crucial.
- Ethical AI and bias mitigation are priorities.

Engage experts to balance innovation and patient safety [17].

Future Directions and Recommendations

- Prioritize interoperability and data sharing.
- Address ethical concerns and biases in AI.
- Educate patients and expand telehealth services.
- Leverage real-world evidence and integrate behavioral health.
- Foster collaboration and allocate sustained funding.

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