

Editorial

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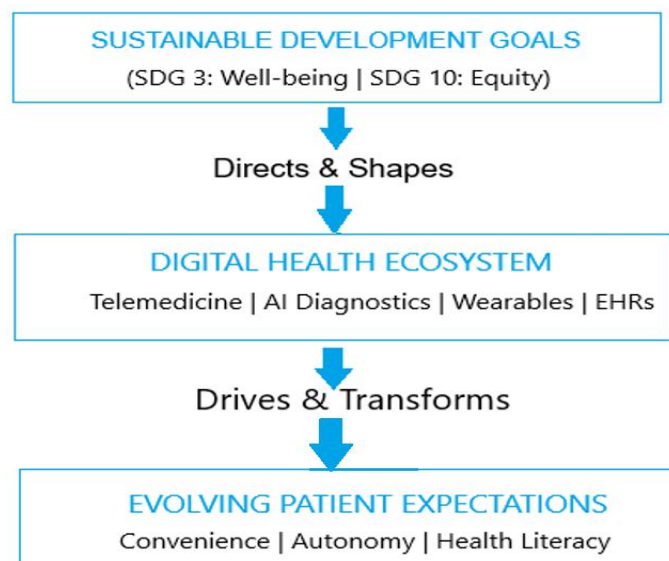
Mapping SDG Synergies: Digitalization, Sustainable Development Goals, and Evolving Patient Expectations in Modern Healthcare

INTRODUCTION

The contemporary global healthcare landscape is undergoing an unprecedented paradigm shift driven by rapid technological innovation and shifting population demographics. As health systems worldwide strive to fulfill the United Nations' Sustainable Development Goals (SDGs)—most notably SDG 3, which aims to ensure healthy lives and promote well-being for all at all ages—the integration of digital tools has transitioned from an optional enhancement to a core structural necessity. Modern healthcare delivery is no longer defined solely by clinical interactions within physical facilities; rather, it operates at a dynamic intersection where artificial intelligence (AI), mobile health applications, electronic health record (EHR) ecosystems, and remote patient monitoring converge. This digital transformation brings profound opportunities alongside critical vulnerabilities. While digital tools improve healthcare accessibility and structural efficiency, they also alter patient behaviors, driving new expectations for convenience, transparency, and personal agency. For health researchers, clinicians, and policymakers, understanding the interplay among the SDGs, the digitalization of health systems, and shifting patient expectations is vital for designing equitable, sustainable, and high-quality care frameworks.

DIGITALIZATION AS A CATALYST FOR THE SUSTAINABLE DEVELOPMENT GOALS

The 2030 Agenda for Sustainable Development outlines 17 interconnected goals, among which health acts as both an indicator and a fundamental driver of sustainable outcomes. Digital health technologies serve as critical enablers in realizing these targets, particularly regarding SDG 3 (Good Health and Well-Being), SDG 10 (Reduced Inequalities), and SDG 9 (Industry, Innovation, and Infrastructure).



By leveraging digital infrastructure, health platforms mitigate spatial and socio-economic barriers to essential care. Telemedicine networks connect rural and underserved communities to specialist consultations, bridging equity gaps and expanding universal health coverage (Aytekin *et al.*, 2025). Furthermore, digital interventions strengthen public health surveillance, enable proactive chronic disease management, and optimize healthcare resource allocation (Mukhtar *et al.*, 2025).

However, realizing these sustainable targets requires addressing digital determinants of health. Without deliberate investments in infrastructure and digital health literacy, technological advances risk aggravating existing social disparities—widening the divide between digitally empowered populations and marginalized groups (Leonardsen *et al.*, 2023). Sustainable development through digital health therefore requires a balanced strategy that pairs technological deployment with policies ensuring equitable access.

TRANSFORMING THE CARE DELIVERY PARADIGM: THE NEW PATIENT EXPECTATION LANDSCAPE

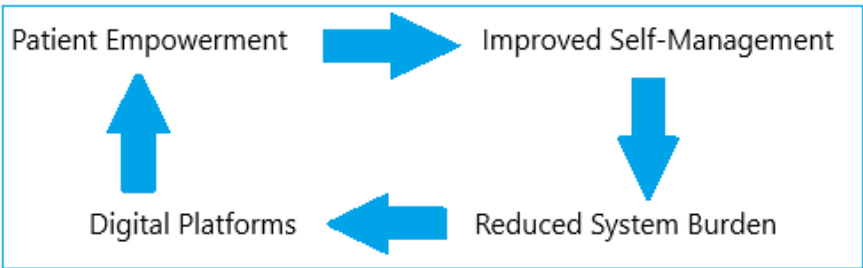
Concurrently, the rapid digitization of everyday life has reshaped how individuals perceive and engage with medical services. The traditional, paternalistic model of care—where the patient acts as a passive recipient of medical recommendations—is giving way to a participatory model centered on patient autonomy and consumer-like expectations.

- 1. On-Demand Accessibility: Modern health service consumers expect seamless digital interactions, including real-time appointment scheduling, rapid remote consultations, and direct digital messaging with provider networks (Stoumpou *et al.*, 2023).
- 2. Data Transparency and Ownership: Patients increasingly demand direct access to their personal medical records, laboratory results, and clinical notes via integrated patient portals, seeking greater agency in managing their health conditions.
- 3. Personalized and Preventive Engagement: Advances in wearable health tools, continuous glucose monitors, and mobile health apps allow individuals to track physiological indicators independently. Consequently, care seekers expect providers to incorporate patient-generated health data into tailored, preventative clinical strategies (Aytekin *et al.*, 2025).

While these shifts foster empowerment, they present operational challenges for clinical teams. Managing incoming digital health data streams, preventing clinician burnout from constant administrative messaging, and addressing misinterpretations caused by unverified online health information require redesigned workflows and improved digital communication strategies (Mukhtar *et al.*, 2025).

SYNERGIES, CHALLENGES, AND CLINICAL REALITIES

Aligning digital health tools, sustainable growth goals, and patient expectations creates a powerful feedback loop. Patient-centered digital architectures encourage self-management and treatment adherence, improving chronic disease outcomes and lessening the burden on tertiary acute care facilities (Leonardsen *et al.*, 2023).



Despite this potential, several operational and systemic barriers must be addressed:

1. Data Privacy and Cybersecurity: Expanding digital footprints heightens exposure to data breaches. Health systems must establish resilient governance frameworks to secure sensitive health records and retain patient trust (Stoumpos *et al.*, 2023).
2. Interoperability and System Fragmentation: Disconnected software platforms hamper seamless data exchange across primary, secondary, and tertiary care providers, disrupting care continuity and diminishing patient satisfaction.
3. Preserving Human-Centered Care: An over-reliance on digital interfaces can weaken therapeutic relationships. Technology must serve as an enabling tool that supports, rather than replaces, compassionate human interactions (Leonardsen *et al.*, 2023).

CONCLUSION AND CALL TO ACTION FOR RESEARCHERS

As the Research Journal of Health Sciences continues to disseminate high-impact scientific work, we invite researchers, public health professionals, and health systems engineers to submit rigorously designed empirical studies, systematic reviews, and policy analyses exploring these intersections. Priority areas for future scholarship include:

1. Evaluating Digital Health Interventions Against Specific SDG Benchmarks: Quantitative assessments measuring the direct impact of digital tools on maternal care, non-communicable disease control, and financial protection.
2. Equity and Digital Literacy: Methodologies designed to improve digital health literacy among vulnerable, aging, and socio-economically disadvantaged groups (Mukhtar *et al.*, 2025).
3. Evaluating Patient Experience and Digital Outcomes: Applied research examining how digital tools alter patient satisfaction, trust, and long-term health metrics (Aytekin *et al.*, 2025).

By focusing scholarship on these intersections, the scientific community can ensure that digital transformations strengthen equitable, sustainable, and patient-centered health systems worldwide.

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