

# THE INSIGHTS

June 2024

Assistant Deputyship of Planning and Organizational Excellence General Directorate of Research and Studies

Periodical Bulletin  
For Recent Trending Scientific Publications of Health Systems & Health Policies



وزارة الصحة  
Ministry of Health



Scan or Click

## Measuring value in health care: lessons from accountable care organizations

\*Bao C, Bardhan IR. *Health affairs scholar*. 2024;2(3):qxae028.

1

### ACO Performance and Value

ACOs were established to enhance healthcare value by improving outcomes and controlling costs. However, after a decade, their average value score stagnated at 0.76, indicating potential for improvement by optimizing expenses and quality performance measures.

2

### Organizational Characteristics

Physician-led ACOs and those with more participating entities tend to deliver lower value care, suggesting challenges in network coordination. In contrast, hospital-managed ACOs show slightly higher average value scores due to better patient management and referral practices.

3

### Social Determinants of Health (SDOH)

Economic factors such as unemployment rate and household income significantly influence ACO value scores. Improved access to healthy food and healthcare resources also correlates positively with higher ACO value, highlighting the role of community health factors.

4

### Performance Gaps and Opportunities

Data envelopment analysis (DEA) revealed substantial inefficiencies in resource utilization and quality outcomes among ACOs. Opportunities for improvement include reducing clinical resource slack and enhancing care coordination, particularly in patient safety and preventive health domains.

5

### Recommendations for Improvement

A "skinny in scale, broad in scope" approach is recommended for ACOs to enhance value. Policy should incentivize ACOs to collaborate more effectively with local communities and integrate care delivery systems for vulnerable populations, aiming to bridge gaps in care continuity and efficiency.

## The influence of telemedicine in primary healthcare on diabetes mellitus control and treatment adherence in Riyadh region

This study aimed to investigate the impact of telemedicine on the outcomes of patients with type 2 diabetes mellitus in Riyadh, Saudi Arabia.

\*Almalki ZS, et al. *Saudi pharmaceutical journal*. 2024;32(1):101920.



Scan or Click

### Key points of the Results

01

Patients who utilized telemedicine had significantly better glycemic control than those who received in-person care only (63% vs 32%)

02

Diabetes complications can be effectively reduced with telemedicine

03

Patients who used telemedicine were less likely to report polypharmacy

04

Patients who used telemedicine adhered to treatment procedures at a higher rate than those who received only in-person care (73% vs 52%)

## Patient perspectives on the use of artificial intelligence in health care: A scoping review

This scoping review aimed to explore the literature on adult patients' perspectives on the use of an array of AI technologies in the health care setting for design and deployment.

\*Moy S, et al. *Journal of patient-centered research and reviews*. 2024;11(1):51-62.



Scan or Click

### General Patients' Attitudes

1. Positive views on accessibility, companionship, efficiency, and cost-effectiveness.
2. Concerns about inadequate human supervision and job displacement risks

### Considerations for the Design of AI

1. Easier usability, comfortable user interfaces, and personalized functions enhancing patients' willingness to engage with AI in healthcare.
2. Efficiency and reliability of AI tools, without compromising the safety.
3. Concerns about the security and ownership of health data.

### Factors Influencing Attitudes

1. Demographic factors such as age, gender, and education level, although studies show conflicting results on which demographics favor AI acceptance.
2. Interaction with AI tools, including familiarity, previous exposure, and simplicity of use, positively influences patients' acceptance.
3. AI performance and level of supervision during use, significantly impact patients' acceptance of AI in healthcare, while concerns like cost, lack of evidence, and communication challenges pose barriers to adoption.

### Considerations for the Use of AI

1. Many fields like cancer treatment, neurosurgery, preventive medicine, radiology, and virtual care, where AI demonstrates utility and effectiveness.
2. Concerns about the lack of trust and understanding regarding AI's current development stage.
3. Concerns about the need for informed consent, transparency in AI tool application, and accountability in case of errors or adverse outcomes.

Summary of the key points of the study's themes