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Value-based healthcare financing: Its impact on cost reduction and quality improvement of healthcare services

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***Abstract*---**Value-based healthcare financing represents a significant shift in healthcare systems, focusing on achieving the best health outcomes relative to the costs incurred, rather than the traditional volume-based service model. This approach aims to enhance the efficiency of healthcare resource utilization while improving the quality of care provided to patients. Given the continuous rise in healthcare costs, there is an urgent need for innovative solutions to address the financial challenges facing healthcare systems. Value-based financing offers an effective framework to balance cost reduction with quality improvement, making it a strategic tool for achieving sustainability in healthcare systems.

***Keywords*---**Healthcare financing, Value-based care, Cost reduction, Quality improvement in healthcare services.

Introduction

Value-Based Healthcare Financing (VBHF) is a modern approach aimed at improving the efficiency of healthcare systems by linking healthcare spending to the quality of services provided, rather than the volume of services delivered. Amid the growing challenges faced by healthcare systems—such as rising costs, increasing demand for services, and inefficiencies in resource allocation—this

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model emerges as a strategic alternative that ensures a balance between costs and quality.

This mechanism is based on incentivizing healthcare providers to improve treatment outcomes, enhance patient satisfaction, and reduce unnecessary procedures, leading to minimized financial waste and increased efficiency in healthcare spending. Therefore, studying the impact of value-based healthcare financing on cost reduction and quality improvement holds both scientific and practical significance, as it contributes to offering innovative solutions for expenditure control and financial sustainability in the healthcare sector.

This research aims to analyze the relationship between implementing this model and the development of healthcare service performance by reviewing international experiences, identifying the factors influencing its success, and assessing its adaptability across different healthcare systems, with a focus on the challenges and opportunities associated with its application.
The study also seeks to:

- Examine the principles of value-based healthcare financing.
- Analyze the impact of this system on cost reduction.
- Explore its effect on improving healthcare quality.
- Provide recommendations to enhance its implementation in various healthcare systems.

Thus, the central research question is:
How can value-based healthcare financing contribute to cost reduction and quality improvement of healthcare services?
To answer this question, we adopt the hypothesis that value-based healthcare financing helps reduce costs and improve service quality by incentivizing healthcare providers to achieve better treatment outcomes at lower costs, thereby reducing financial waste and enhancing spending efficiency.

We employ a descriptive methodology and an analytical approach, relying on a review of existing literature and analysis of data related to the application of value-based healthcare financing in different healthcare systems. The study focuses on the following key elements:

- The concept of value-based healthcare financing
- Cost reduction through value-based financing
- Quality improvement in healthcare services
- Challenges and barriers
- Future recommendations

First: Concept of Value-Based Healthcare Financing

1. Definition of Value-Based Healthcare Financing:

Value-Based Healthcare Financing (VBHF) is a modern model that focuses on paying for healthcare services based on the quality of health outcomes and the results achieved by the provided care, rather than payment based on the number of procedures or services performed (Fee-for-Service). This model aims to enhance efficiency and effectiveness in the utilization of healthcare resources while ensuring the delivery of high-quality patient care.

2. Core Principles of Value-Based Healthcare Financing:

- **Focus on health outcomes:** This model relies on measuring actual health outcomes achieved for patients, such as improved quality of life, reduced hospital readmission rates, and increased survival rates.
- **Incentivizing quality improvement:** The system encourages healthcare providers to enhance service quality rather than increasing the quantity of services provided.
- **Balancing cost and quality:** The model seeks to deliver the highest possible quality of care at the lowest cost, promoting economic efficiency.
- **Transparency and accountability:** This model requires healthcare providers to report health outcomes and costs clearly, enhancing trust between patients and service providers.

3. Comparison Between Value-Based and Traditional Financing Models:

Aspect	Traditional Financing (Fee-for-Service)	Value-Based Healthcare Financing
Payment Criterion	Number of services provided	Achieved health outcomes
Primary Focus	Maximizing the number of procedures and services	Improving patient health and reducing costs
Incentives	Increasing procedures to generate more revenue	Enhancing quality and efficiency to reduce expenses
Accountability	Limited to service level	Comprehensive at the level of health outcomes

This comparison highlights the fundamental shift in healthcare financing from quantity-based payments to quality-based incentives, making value-based healthcare financing a transformative approach in modern healthcare systems.

4. Key Benefits of Value-Based Healthcare Financing:

- **Improved Healthcare Quality:** Focuses on delivering patient-centered healthcare services while ensuring optimal health outcomes.
- **Cost Reduction:** Minimizes unnecessary procedures and enhances efficiency in resource utilization.
- **Enhanced Patient Experience:** Provides services tailored to patient needs and health goals.
- **Reduced Health Disparities:** Ensures access to high-quality services for all individuals, regardless of their economic or social status.

5. Components of Value-Based Healthcare Financing:

- **Performance Measurement and Health Outcomes:** This model requires tools to assess healthcare outcomes, such as quality of life, recovery rates, and hospital readmissions due to inadequate care.

- **Innovation in Care Delivery:** Encourages healthcare providers to innovate in treatment techniques and preventive methods to reduce costs and achieve better outcomes.
- **Value-Based Payment Models:**
  - **Outcomes-Based Payments:** Rewards are based on the achieved health outcomes.
  - **Bundled Payments:** A single payment is provided for a set of services related to a specific condition (e.g., a surgical procedure).

6. Examples of Value-Based Healthcare Financing Implementation:

- **Obamacare Program (USA):** Focused on improving health outcomes and reducing costs by shifting towards value-based rather than volume-based models.
- **Sweden's Healthcare System:** Emphasizes improving patient outcomes through payment models that incentivize providers to achieve better results at lower costs.
- **Singapore's Experience:** Implements an integrated healthcare system that prioritizes investment in prevention and rehabilitation to achieve optimal health outcomes.

7. Challenges in Implementing the Model:

- **Difficulty in Accurately Measuring Health Outcomes:** Health outcomes are not always easily quantifiable, especially for chronic or long-term conditions.
- **Cultural and Institutional Change:** Transitioning from a traditional to a value-based model requires significant organizational culture shifts among healthcare providers.
- **Need for Advanced Technological Infrastructure:** Value-based financing relies on modern electronic systems to collect and analyze data related to health outcomes and costs.

8. The Importance of Value-Based Healthcare Financing in Future Healthcare Systems:

With increasing financial pressures on global healthcare systems, value-based healthcare financing serves as a strategic pathway toward financial sustainability and improved healthcare quality. By adopting this model, healthcare systems can provide more humane and efficient care, making them better equipped to tackle the rising health challenges of the future.

II. Cost Reduction Through Value-Based Healthcare Financing

Value-based healthcare financing is an economic model that aims to reallocate resources within healthcare systems to achieve the best health outcomes at the lowest possible cost. This model promotes efficiency and effectiveness through innovation, prevention, and coordination among various healthcare providers. Below is a detailed analysis of the factors contributing to cost reduction within this system:

1. Reducing Waste in Healthcare Resources

Healthcare waste includes the inefficient use of resources, whether through unnecessary medical procedures or redundant operations. Value-based financing addresses this issue by:

1.1 Minimizing Unnecessary Tests and Procedures:

- Reducing medical procedures that do not add value to the patient, such as repeated tests or unnecessary treatments.

  Practical Example:

  In healthcare systems like Sweden's, physicians are encouraged to follow evidence-based treatment protocols, which help reduce unnecessary procedures and lower costs.

1.2 Improving Operational Processes:

- Enhancing the management of resources such as hospital beds, equipment, and time.

  Impact:

  Reducing patient waiting times and avoiding redundant medical operations, leading to lower administrative and medical costs.

2. Focus on Prevention and Primary Care

Prevention is one of the most effective ways to reduce costs, as it prevents diseases from progressing to advanced stages that require expensive treatments.

2.1 Investing in Preventive Care:

- Early screening programs for diseases such as cancer or heart disease help reduce the need for surgical treatments or advanced medical interventions.

  Practical Example:

  In the Netherlands, diabetes prevention programs have led to a 30% reduction in hospital admissions due to disease complications.

2.2 Reducing Hospital Burden:

- Strengthening the role of primary care and community health centers decreases reliance on costly hospital services.
- Providing vaccinations and preventive care within communities reduces the cost of treating infectious diseases.

3. Bundled Payments for Services

The bundled payment system involves a single comprehensive payment covering all services related to a specific medical condition, encouraging providers to deliver high-quality care efficiently.

3.1 Benefits of Bundled Payments:

- Reduces incentives to perform unnecessary procedures.
- Encourages coordination among medical teams to improve health outcomes.

3.2 Practical Implementation:

- In the **United States**, the bundled payment model was applied to knee replacement surgery, resulting in a 20% cost reduction without compromising the quality of care.

4. Reducing Hospital Readmission Rates

Patient readmission due to inadequate primary care or complications increases healthcare system costs. Value-based financing addresses this challenge by:

4.1 Enhancing Post-Treatment Follow-Up:

- Monitoring patient conditions after hospital discharge ensures stability and reduces the likelihood of readmission.
  Practical Example:
  Home care programs for patients after major surgeries have significantly reduced hospital readmission rates across many European countries.

4.2 Incentivizing Quality Improvement:

- Healthcare providers receive financial incentives based on achieving lower patient readmission rates.

5. Innovation in Healthcare Delivery

Innovative technologies reduce operational costs and enhance service delivery.

5.1 Leveraging Technology:

- **Electronic Systems:** Improved electronic health records help minimize medical errors and enhance efficiency.
- **Telemedicine:** Enables patients to receive online medical consultations, reducing transportation and in-person visit costs.

5.2 Artificial Intelligence and Data Analytics:

- Health data analysis helps identify the most cost-effective treatments.
  Practical Example:
  AI systems in the United Kingdom have helped identify high-risk patients for complications, enabling preventive care interventions.

6. Enhancing Coordination Among Healthcare Providers

Collaboration among doctors, nurses, and hospitals reduces redundancy and errors.

6.1 Working in Multidisciplinary Teams:

- Integrated medical teams provide patient-centered care, reducing waste.
  Practical Example:
  In Canada's healthcare system, specialized teams were established for chronic disease management, leading to a 15% cost reduction.

6.2 Standardizing Health Information:

- Sharing patient data among providers prevents duplicate tests or procedures.

7. Effective Chronic Disease Management

Chronic diseases place a significant burden on healthcare systems, and value-based financing offers a more efficient approach to managing them.

7.1 Long-Term Care Plans:

- Treatment plans focus on improving quality of life and preventing health deterioration.
  Practical Example:
  Diabetes management programs combining nutritional education, psychological support, and medical care have reduced costs by 25% in some healthcare systems.

7.2 Enhancing Preventive Treatments:

- Utilizing modern technologies, such as connected insulin pumps, reduces emergency care costs.

8. Performance Measurement and Outcome-Based Payments

- Payments are linked to achieving specific targets, such as improving patient health or reducing hospital stay duration.
  Practical Example:
  In Germany, hospitals receive incentives to improve post-surgical patient outcomes, leading to lower complication rates and reduced costs.

Third: Improving Healthcare Service Quality

Enhancing healthcare quality is a core objective of value-based financing, focusing on patient-centered care, reducing medical errors, and achieving optimal health outcomes. This shift improves medical performance efficiency and ensures comprehensive services that meet patient and community expectations. Below is a detailed analysis of the methods and mechanisms contributing to quality improvement:

1. Focusing on Health Outcomes Instead of Processes

- Value-based financing directs attention toward patient health outcomes rather than just the number of medical procedures.
- Performance is measured based on indicators such as patient condition improvement, recovery rates, and patient satisfaction levels.

Practical Examples:

- Hospitals implementing "cardiac rehabilitation" programs focus on improving patients' health rather than counting physical therapy visits.
- Diabetes patients are monitored based on their blood sugar control levels rather than the number of clinic visits.

2. Enhancing Coordination Among Healthcare Providers

- A value-based system requires collaboration among various medical specialties to provide comprehensive and integrated services.
- Coordination among medical teams reduces medical errors and minimizes redundant tests or treatments.

Applied Examples:

- **Multidisciplinary Care Teams:**
  - For example, in cancer treatment, oncologists, surgeons, and nutritionists work together to create an integrated treatment plan.
- **Case Management Systems:**
  - A "case manager" is assigned to oversee the patient's treatment journey, ensuring that every service is delivered at the right time.

3. Improving Patient Experience

- Quality encompasses not only clinical outcomes but also the patient’s experience within the healthcare system.
- Patient feedback is considered, and processes are optimized to meet their needs.

Examples of Enhancing Experience:

- Reducing waiting times through more efficient scheduling.
- Providing educational programs to help patients understand treatment options and make informed decisions.

4. Strengthening Prevention and Early Detection

- Prevention is a key component of value-based care, as it reduces the number of advanced cases requiring complex and costly interventions.
- Early detection leads to effective treatment and better health outcomes.

Practical Examples:

- Breast cancer screening programs at early stages reduce mortality rates.
- Promoting vaccinations helps lower the spread of infectious diseases.

5. Leveraging Technology to Improve Quality

- Technological innovations such as artificial intelligence, electronic health records, and telemedicine enhance diagnostic accuracy and treatment quality.

5.1 Technology Benefits:

- Reducing medical errors through Clinical Decision Support Systems (CDSS).
- Facilitating the sharing of health data among providers to improve coordination and avoid redundant treatments.

5.2 Applied Examples:

- Using electronic health records (EHR) to standardize patient medical information and ensure easy access.
- Remote patient monitoring applications that allow doctors to continuously track chronic disease cases.

6. Reducing Medical Errors and Enhancing Safety

- Value-based financing focuses on improving safety procedures in hospitals and clinics, thereby reducing medical errors that could negatively impact care quality.

Examples of Safety Improvements:

- Implementing strict protocols for sterilizing medical equipment to minimize hospital-acquired infections.
- Training programs for doctors and nurses on techniques to reduce medical errors.

7. Strengthening Performance Measurement and Accountability

- Service quality is assessed based on key performance indicators (KPIs) such as mortality rates, complication rates, and patient satisfaction levels.
- Payments to healthcare providers are linked to achieving specific quality standards.

Applied Examples:

- Providing incentives to hospitals that maintain low hospital-acquired infection rates.
- Rewarding healthcare providers who improve the quality of life for patients with chronic diseases.

8. Health Education and Patient Engagement

- Educating patients about their health conditions and treatment options helps them make better decisions.
- Encouraging patients to actively participate in their treatment plans enhances adherence and leads to better outcomes.

Practical Examples:

- Educational programs for diabetes patients on the importance of diet and physical activity.
- Digital platforms that allow patients to review their health data and schedule appointments.

9. Innovation in Healthcare Service Design

- Developing new care models, such as home care and telemedicine, improves service quality and makes healthcare more convenient for patients.

Applied Examples:

- Home care programs for patients with chronic diseases provide personalized healthcare while reducing costs.
- Virtual clinics that enable patients to receive medical consultations without visiting the hospital.

10. Successful Global Examples of Quality Improvement

10.1 Kaiser Permanente Model:

- A successful example of improving healthcare quality through investment in prevention and health information technology.

10.2 NHS System in the UK:

- Implementation of programs like the "Quality Outcomes Framework" to incentivize healthcare providers to enhance service quality.

10.3 Mayo Clinic System:

- Focuses on patient-centered care using multidisciplinary teams to improve health outcomes.

Fourth: Challenges and Barriers

Although value-based financing aims to improve healthcare quality and reduce costs, it faces several challenges and obstacles that hinder its full implementation. These challenges include organizational, cultural, technological, and financial aspects. Below is a detailed analysis of the most significant challenges:

1. Resistance to Change

- The transition from the traditional fee-for-service model to a value-based financing system faces strong resistance from healthcare providers due to the fundamental shift in payment and performance methods.
- Some healthcare institutions prefer to continue with the traditional system, which rewards quantity rather than quality.

Reasons for Resistance:

- Fear of revenue loss.
- Uncertainty about the expected benefits of the change.

Potential Solutions:

- Organizing workshops to educate healthcare professionals about the benefits of the new system.
- Providing financial incentives to encourage service providers to adopt the system.

2. Difficulty in Measuring Value and Health Outcomes

- Measuring "value" accurately can be challenging, especially when health outcomes depend on multiple factors, such as patients' social and economic conditions.
- Key Performance Indicators (KPIs) may not be standardized or agreed upon among different healthcare entities.

Potential Solutions:

- Developing comprehensive measurement systems that consider all influencing factors.
- Collaboration among healthcare organizations to establish unified measurement standards.

3. Lack of Health Data and Technological Infrastructure

- Many countries and healthcare institutions lack advanced digital systems to collect and analyze data needed to assess performance and quality.
- Weak integration between Electronic Health Records (EHRs) across different hospitals.

Potential Solutions:

- Investing in the development of electronic health record systems.
- Improving system integration by standardizing health data formats.

4. Initial Costs of Transitioning to a Value-Based System

- Implementing value-based financing requires significant investments in training, technology, and data analysis.
- This financial burden can be particularly challenging for small healthcare institutions or resource-limited countries.

Potential Solutions:

- Providing financial support from governments or international organizations to facilitate the transition.
- Offering tax incentives to healthcare institutions investing in quality improvement.

5. Shortage of Qualified Healthcare Professionals

- Transitioning to value-based financing requires trained medical and administrative teams skilled in teamwork, data analysis, and quality management.
- Many countries lack specialized training programs to prepare professionals for these new roles.

Potential Solutions:

- Establishing targeted training programs for healthcare workers.
- Strengthening partnerships with universities and educational institutions to develop appropriate curricula.

6. Cultural Challenges

- In some healthcare systems, the prevailing work culture prioritizes profit and increasing the number of medical procedures rather than improving health outcomes.
- Shifting this culture to align with value-based financing goals can be difficult.

Potential Solutions:

- Launching awareness campaigns to promote cultural change.
- Encouraging medical and administrative leadership to adopt policies focused on quality improvement.

7. Complexity in Designing Value-Based Payment Contracts

- Structuring payment contracts that link performance to health outcomes can be complex and require extensive coordination between service providers and payers.
- These complexities may slow down the adoption of the new system.

Potential Solutions:

- Consulting legal and economic experts to simplify contracts.
- Developing standardized models that can be easily implemented.

8. Socioeconomic Disparities Among Patients

- Some patients may not have equal opportunities to achieve good health outcomes due to poverty, lack of education, or limited access to healthcare.
- This affects provider performance evaluations, as poor outcomes may be beyond their control.

Potential Solutions:

- Implementing financing models that account for patients' social and economic conditions.
- Providing additional services to disadvantaged groups to ensure equity.

9. Lack of Innovation and Field Research

- Limited field studies proving the effectiveness of value-based financing hinder its widespread adoption.
- Healthcare systems need practical evidence to justify transitioning to this model.

Potential Solutions:

- Encouraging universities and research institutions to conduct applied studies in this field.
- Allocating government funding to support relevant healthcare research.

10. Political and Regulatory Challenges

- In some countries, value-based financing may face political barriers due to conflicts with the interests of certain groups, such as insurance companies or traditional healthcare providers.
- Outdated regulations may hinder the implementation of the new system.

Potential Solutions:

- Advocacy from NGOs and professional associations to update regulatory frameworks.

- Building public-private partnerships to support the adoption of value-based financing.

Fifth: Future Recommendations

To achieve sustainable success in implementing value-based healthcare financing and realizing its goals of improving healthcare quality and reducing costs, it is essential to develop strategies and future recommendations that address existing challenges and enhance success opportunities. Below are a set of future recommendations:

1. Enhancing Investment in Digital Infrastructure

- **Recommendation:**
  Develop Electronic Health Records (EHRs) and health data analytics platforms to facilitate the collection, analysis, and sharing of information among healthcare providers.
- **Implementation Mechanism:**
  - Allocating budgets to support digital transformation in the healthcare sector.
  - Adopting open-source systems to facilitate integration across healthcare entities.
  - Improving cybersecurity to protect patient data.

2. Improving Performance Measurement and Health Value Indicators

- **Recommendation:**
  Develop comprehensive and standardized indicators to measure the quality of healthcare services and patient outcomes.
- **Implementation Mechanism:**
  - Collaborating between governments, healthcare institutions, and universities to create a unified measurement framework.
  - Incorporating social and economic factors of patients to avoid biased performance evaluation.
  - Utilizing artificial intelligence to analyze performance and predict health outcomes.

3. Building Human Capacities and Training

- **Recommendation:**
  Provide continuous training programs for medical and administrative staff to enhance their skills in managing a value-based healthcare system.
- **Implementation Mechanism:**
  - Integrating value-based financing as a core component in medical and economic education curricula.
  - Organizing workshops and training sessions for healthcare workers.
  - Supporting knowledge exchange between successful healthcare institutions.

4. Offering Financial and Incentive-Based Rewards

- **Recommendation:**
  Link financial incentives to achieving specific performance indicators that focus on improving healthcare quality and patient outcomes.

- **Implementation Mechanism:**
  - Providing financial rewards for hospitals and medical teams that achieve outstanding results.
  - Offering tax reductions or subsidies for institutions that invest in prevention and innovation.

5. Strengthening a Patient-Centered Healthcare Culture

- **Recommendation:**
  Focus on delivering healthcare services tailored to patient needs and enhancing patient satisfaction.
- **Implementation Mechanism:**
  - Establishing educational programs to promote patient involvement in managing their health.
  - Employing support teams to provide guidance and counseling for patients and their families.
  - Enhancing communication channels between healthcare providers and patients through digital applications and telemedicine services.

6. Promoting Collaboration Among Stakeholders

- **Recommendation:**
  Build strong partnerships between healthcare providers, governments, insurance companies, and civil society.
- **Implementation Mechanism:**
  - Creating forums and platforms for dialogue among stakeholders to discuss challenges and solutions.
  - Developing joint financing models that balance the interests of different entities.
  - Encouraging regional and international cooperation to exchange successful experiences.

7. Strengthening Prevention and Primary Care

- **Recommendation:**
  Invest in preventive programs and primary care to reduce the need for costly interventions and improve quality of life.
- **Implementation Mechanism:**
  - Conducting comprehensive awareness campaigns on the importance of preventive screenings and vaccinations.
  - Increasing funding allocated to primary healthcare centers.
  - Integrating prevention programs with the value-based financing system.

8. Encouraging Innovation in Healthcare Service Design

- **Recommendation:**
  Develop innovative models for healthcare delivery, such as home care, virtual clinics, and telemedicine services.
- **Implementation Mechanism:**
  - Providing support for startups developing healthcare solutions.
  - Allocating funding for research on the impact of innovation on healthcare quality.

- o Establishing pilot centers to test and implement new technologies before widespread adoption.

9. Increasing Investments in Scientific Research

- **Recommendation:**
  Support field studies and research that focus on measuring the impact of value-based financing in improving healthcare quality and reducing costs.
- **Implementation Mechanism:**
  - o Allocating research grants for scholars in healthcare and economic fields.
  - o Establishing specialized research centers to evaluate new system applications.
  - o Enhancing collaboration between universities and healthcare institutions for practical studies.

10. Reforming Health Policies and Legislation

- **Recommendation:**
  Update legal and regulatory frameworks to support the transition to value-based financing.
- **Implementation Mechanism:**
  - o Reviewing current health policies to ensure alignment with the new system.
  - o Enacting laws that promote transparency and accountability among healthcare providers.
  - o Streamlining legal procedures for establishing public-private partnerships.

11. Promoting Equity in Healthcare Service Distribution

- **Recommendation:**
  Ensure that all patients, regardless of their social or economic status, receive high-quality healthcare.
- **Implementation Mechanism:**
  - o Designing specialized programs for rural areas and underserved communities.
  - o Providing financial support for vulnerable groups to access essential healthcare services.
  - o Utilizing value-based financing to allocate resources toward improving care in disadvantaged areas.

Conclusion

Amid the challenges facing healthcare systems globally, value-based healthcare financing represents a fundamental shift in how healthcare is delivered and funded. This approach focuses on balancing quality improvement with cost reduction, making it a sustainable solution to the growing pressures on healthcare resources.

This study explored the concept of value-based financing, its principles, and its impact on enhancing efficiency and quality, while also addressing the challenges and barriers to its implementation. Despite the obstacles, this model remains a powerful tool for improving healthcare outcomes and enhancing patient experiences.

Adopting this approach requires broad collaboration between governments, healthcare providers, insurance companies, and society as a whole. Investment in technology, workforce training, and health policy development is essential for achieving the desired success.

In conclusion, value-based healthcare financing is not merely a financial model; it is a comprehensive framework aimed at building resilient and equitable healthcare systems that provide high-quality services, meet patient needs, and improve overall quality of life. Given its numerous benefits, this model presents a genuine opportunity to advance healthcare systems, making them more efficient and sustainable in the future.

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