

Introduction to Presenter:

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CEO of BlueNovo; Experienced CIO of community-based healthcare organizations nationwide (VCHA, CPCA, etc.).







Objective: As organizations increasingly recognize the benefits of incorporating Al technologies into healthcare delivery, it becomes imperative to establish a robust framework governing their use among staff in internal and external contexts. This presentation will address the responsible adoption of Generative AI within the healthcare industry and share strategies and best practices which peer FQHCs can consider and incorporate into their practice.

Agenda:

- 1. Introduction to Generative Al
- 2. Current Challenges in FQHCs & CHCs
- Generative Al Applications-Benefits & Challenges
- 4. Future Outlook
- 5. **Q&A**



Generative AI: A Brief Overview Across Industries

Generative AI refers to a subset of artificial intelligence that focuses on creating new context, be it text, images, music, or even complex data patterns. It's powered primarily by neural networks, especially Generative Adversarial Networks (GANs), which consist of two parts: a generator, which creates images, and a discriminator, which elevates them.

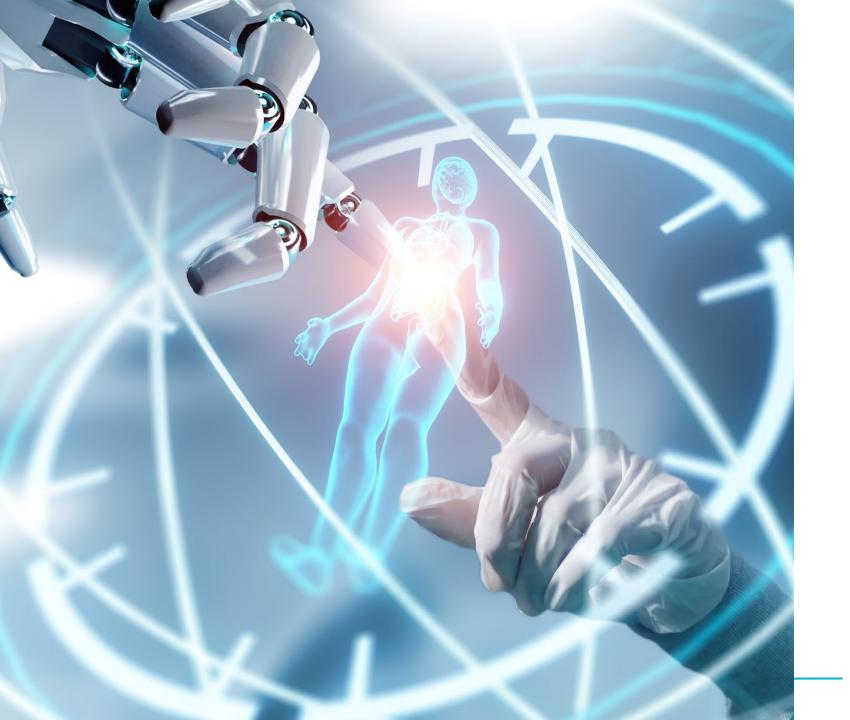






CURRENT CHC CHALLENGES





Benefits of Generative Al in Healthcare

- 1. Improved Efficiency
- 2. Enhanced Accuracy
- 3. Cost Savings





Healthcare Use Cases:



Diagnostic Assistance



Predictive Analytics



Treatment Recommendations



Drug Interactions and Side Effects



Genomic Medicine and Personalized Care





Healthcare Use Cases:





Natural Language Processing (NLP)



Remote Patient Monitoring







Additional Applications:



Appointment Scheduling and Reminders



Triage and Preliminary
Diagnosis



Patient Education and Follow-Up



Medication and Refill Queries



Feedback and Satisfaction Surveys



Billing and Insurance Inquiries



Health Promotion and Preventative Care



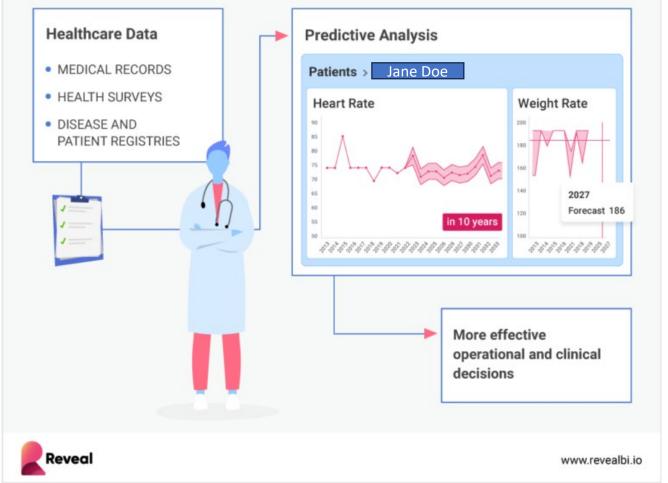
Mental Health Checkins





Predictive Analytics for Patient Care

Predictive Analytics in Healthcare



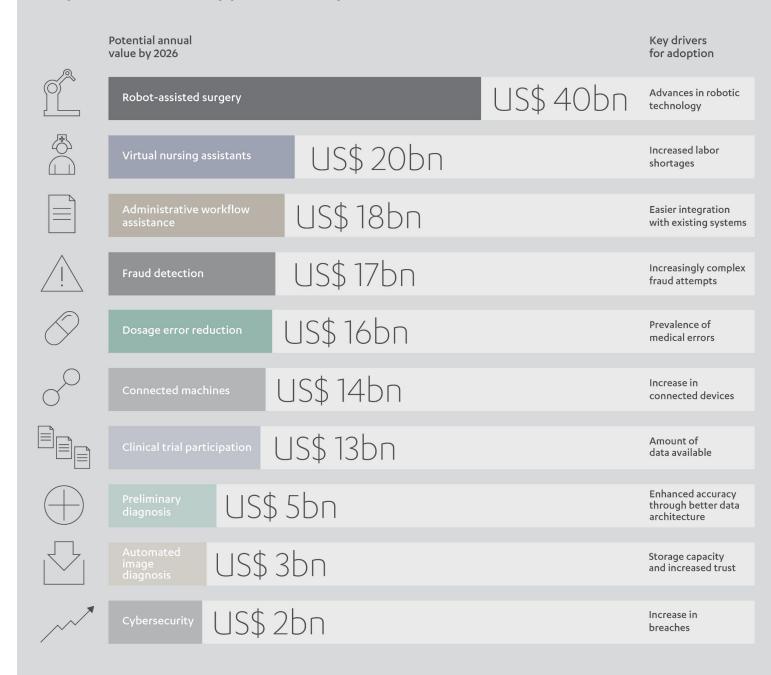


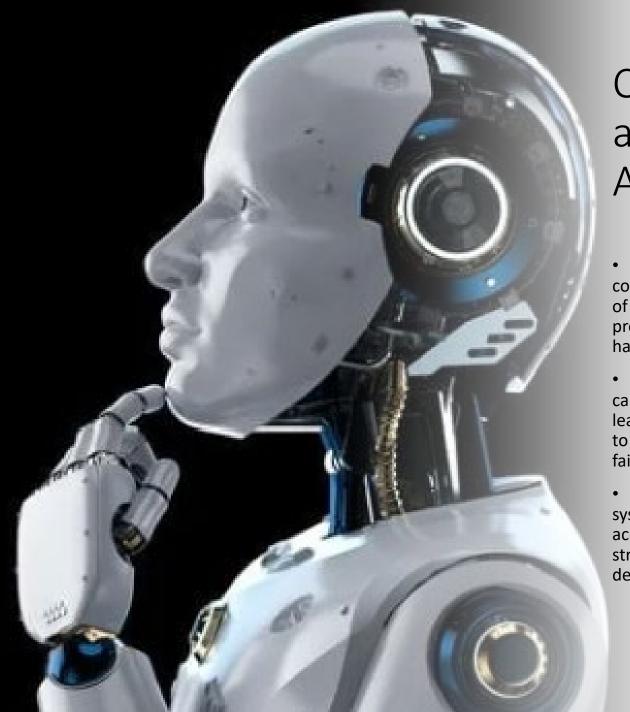


Cost Savings

A recent Accenture report estimated that the top 10 healthcare applications where Al could deliver the "greatest nearterm impact" could save the US healthcare system alone \$ 150 billion per year by 2026.

Top AI healthcare applications by 2026





Considerations of adopting Generative AI in Healthcare

- **Privacy Concerns:** Generative AI raises privacy concerns, as the technology may involve the use of sensitive patient data. It is important to ensure proper data anonymization and secure data handling practices.
- Bias and Fairness in AI: Generative AI systems can be influenced by biases in the training data, leading to biased or unfair outcomes. It is crucial to address and mitigate these biases to ensure fairness and equity in healthcare.
- **Transparency:** Transparency in generative Al systems is essential to build trust and enable accountability. Healthcare organizations should strive for transparency in the design, training, and deployment of generative Al systems.

Risks of Augmenting Clinical Judgement

- The Value of Human Touch
- Human intuition, experience, and empathy in healthcare are irreplicable
- Al as a Supplement, Not a substitute
- Potential Risks of Over-Reliance
 - Misdiagnoses or overlooking nuances
 - Al is Powerful but not infallible







Establishing Al Policies



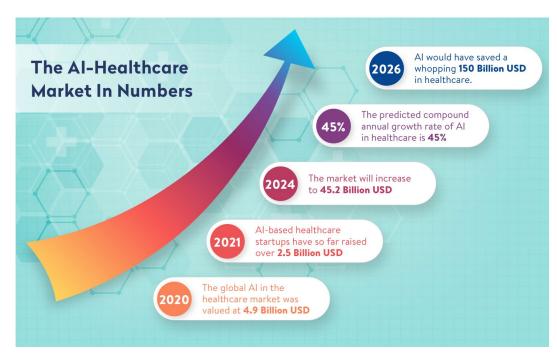


Source: GAO Forum on Artificial Intelligence. | GAO-18-644T



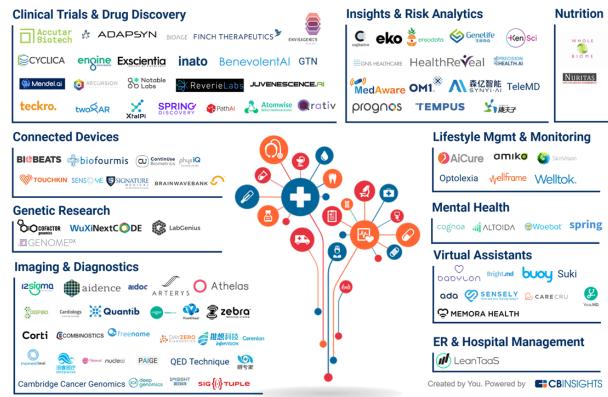


What does the future hold?



The Evolution of AI in Healthcare | CodeGlo Journal

■ 100 Artificial Intelligence Startups Transforming Healthcare



*The map is not exhaustive of all the startups in the space, and only includes companies that raised a VC or corporate-backed equity deal after January 2017

The 130+ AI startups reinventing healthcare (cbinsights.com)





