

The Future of the Healthcare Revenue Cycle



Speaker



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Course Objectives

Understand how technology-driven innovations in the healthcare revenue cycle have the potential to enhance efficiency, accuracy, security, and financial outcomes while benefiting patients and healthcare providers.

Discover best practices to integrate Al and other healthcare technologies into your workflow. Leverage technology to streamline revenue cycle tasks and improve coding, billing, payment processing, and claims management.



Agenda

- 1. Revenue Cycle: History & Current State
- 2. The Role of Emerging Technology
 - Artificial Intelligence
 - Understanding Blockchain
 - The Power of Predictive Analytics
- 3. Practical Next Steps and How-To Advice





Where We Are and Where We've Been



History of Technology & Revenue Cycle Functions



Traditional Revenue Cycle

- Manual Processes
- Paper-based Systems



Early Digitalization

- Electronic Health Records
- Billing Software



Current Tech Advancements

- Al
- Blockchain
- Predictive Analytics



Current State of the Revenue Cycle



Covers admin and patient-facing processes from the appointment to when final bill paid



Increasingly complex, with more stakeholders and systems



Faces many challenges

- Inefficiencies
- Specialization
- Billing & Claim Management
- Delayed & Incomplete Payments





Leveraging Technology in the Revenue Cycle



Differentiating Among Emerging Technologies

Platforms

Automation/RPA

Machine-driven execution of processes (often UI-based)

Blockchain

Secure transaction management platform

Performers

Natural Language Processing (NLP)

Al-adjacent capability for machines to understand conversational inputs

Artificial Intelligence (AI)

Synthesis of data to enable machine-driven decision making

Machine Learning (ML)

Determination and application of segmented types and outcomes to better analyze data sets

Predictive Analytics

Using data analyses to predict outcomes based on prior observations

Critical Principles

1

Thoughtful integration design

2

Clear, well-defined underlying processes 3

Balance of technology and human elements

Leveraging Technology In the Revenue Cycle



Al

Coding Billing Claims



Blockchain

Security & Transparency



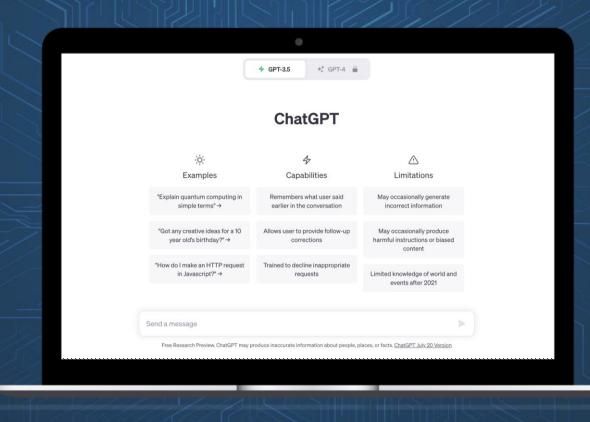
Predictive Analytics

Trend
Identification &
Issue Resolution



Artificial Intelligence







- 1. Al is not an "Easy Button" to solve all inefficiencies and problems
- 2. Key capability is the ability to synthesize large and complex data sets
- 3. Coupled with NLP, it offers a platform for technological innovation across a number of fields
- 4. Al, as with most tools, remains an enhancement to human abilities

Benefits of Al in the Revenue Cycle

1

Primary use in discrete and data-heavy functions

(e.g., coding, billing and claims management)

2

Emerging uses across synthesis-driven functions

(e.g., complex coding, denial management)

3

Provides
Efficiency,
Accuracy and
expanded
Automation
capabilities

Keep Top of Mind



Current Capabilities

- Automation
- Predictive modeling
- Increased efficiency



Limitations

- Dependence on Quality Data
- Cost
- Regulatory Issues



Future Developments

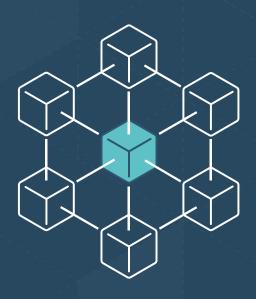
- Enhanced Accuracy
- Increased Integration & Interoperability
- Advanced Predictive Analytics



Understanding Blockchain



What Is It? How Does It Work?



- ✓ Distributed Ledger / Decentralized Database
- ✓ Highly Secure and Transparent
- ✓ Reduces Possibility of Fraud

Potential Benefits for the Revenue Cycle

Secure and Transparent Billing System

Secure Patient Data-Sharing

Improved Coordination of Care

Greater Accuracy of Coding

Ability to Trace Transactions Overall Improved Efficiency

Example of a Bleckchain Enhanced Revenue Cycle

- Every stakeholder has access to reliable, transparent data
- Fewer disputes
- Increased efficiency and a better patient experience





The Power of Predictive Analytics



What Is It? How Does It Work?

Uses statistical algorithms and machine learning

Identifies likely outcomes based on historical data

Provides insights into complex areas

(e.g., patient payment behavior, denial claims patterns) Helps identify potential revenue leakage points

Use Cases of Predictive Analytics Mind

Risk Stratification for High-Cost Claims

- Identify patients likely to generate high-cost claims
- Providers manage these patients to reduce costly hospital admissions or readmissions

Prediction of Claims Denials

- Analyze historical data to identify patterns
- Indicate issues such as coding issues or missing documentation
- Reduce future denials

Estimation of Patient Ability to Pay

- Analyze socioeconomic data
- Inform discussions on payment plans or charity care
- Reduce bad-debt write off

Synergy: Al and Predictive Analytics









Predictive
Analytics for
Foresight &
Decision Making





Intelligent Prediction & Automation

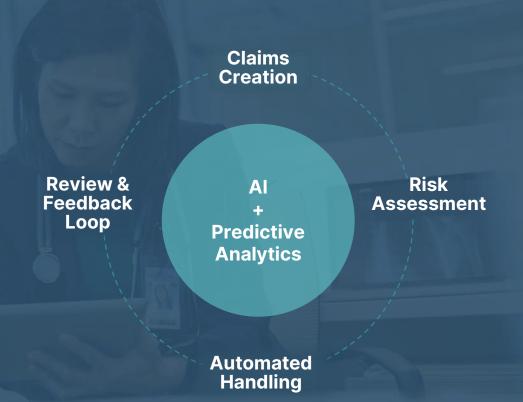
Synergy: Al and Predictive Analytics



When Al and predictive analytics work together, we get a system that's not just efficient, but also INTELLIGENT.

Example: Integrating Al and Predictive Analytics in Claims Management

- More efficient
- Adaptive
- Improvement across revenue cycle



Risk Points In Transitioning to Advanced Technologies

Data Security & Privacy

Integration & Interoperability Issues

Workforce Training & Adoption

Cost & ROI

Patient
Trust &
Acceptance

Provider Resistance to Change

Over-reliance on Technology

Potential Impact on Employment

The Future of the Revenue Cycle

- Future looks promising
- ✓ Will improve patient care
- Administrative tasks streamlined
- Resources optimally used
- ✓ Focus is rightfully on the patient



Questions

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Thank You



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