NJHFMA FACT Committee

NJHFMA **FACT Committee** Al in Healthcare Business and Finance May 2025

NJHFMA FACT Committee

Agenda

- Overview of AI in Healthcare
 - ✓ Areas for Application
 - ✓ AI is Transforming Healthcare
 - ✓ Key AI Technologies
- **✓** AI in Healthcare Finance
 - ✓ Revenue Cycle Optimization
 - ✓ Patient Billing and Cost Transparency
 - ✓ Insurance Claims and Denial Management
 - ✓ Financial Planning and Forecasting
 - Summary of AI in Healthcare

- **✓** Overview in Healthcare Business
 - ✓ Areas for Application
 - ✓ Clinical Decision Support
 - ✓ Revenue Cycle Management
 - ✓ Administrative Automation
 - ✓ Population Health & Predictive Analytics
 - ✓ Personalized Medicine
 - ✓ Drug Discovery and Development
 - Supply Chain Management
 - ✓ Virtual Health & Remote Monitoring

✓ AI in Healthcare Finance

- **✓** AI is Transforming Healthcare
 - ✓ Faster Revenue Recognition: AI accelerates insurance approvals, coding accuracy, and collections.
 - ✓ Cost Reduction: Automating repetitive tasks reduces administrative headcount and errors.
 - ✓ Patient Financial Engagement: AI-powered estimates and selfservice payment portals improve transparency and payment rates.
 - ✓ Improved Market Competitiveness: Organizations offering AIenabled virtual care, remote monitoring, or personalized engagement stand out.
 - ✓ Data Monetization: Health systems are starting to leverage deidentified data for AI model training, opening new revenue 4 streams.

AI in Healthcare Finance

- **✓ Key AI Technologies**
 - ✓ Machine Learning (ML)
 - ✓ Natural Language Processing (NLP)
 - ✓ Computer Vision
 - ✓ Generative AI (e.g., GPT models)

✓ Polling Question #1 To Join the Poll – Slido.com Participant #5412943 Password – oamccn Click on Poll on Top



How is AI transforming healthcare!



✓ AI in Healthcare Finance

- **✓** Revenue Cycle Optimization
 - **✓** Insurance Verification and Eligibility Checks
 - ✓ AI automates real-time insurance eligibility verification at the time of scheduling or check-in.
 - Reduces claim denials due to coverage issues and minimizes frontend errors

✓ Automated Prior Authorizations

- ✓ Natural Language Processing (NLP) tools extract required clinical documentation and automatically submit prior authorization requests.
- ✓ Decreases administrative delays and improves approval rates.

✓ Predictive Denials Management

- ✓ AI models predict the likelihood of claim denials before submission based on payer patterns, coding issues, or missing data.
- ✓ Staff can proactively correct potential problems, improving clean claim rates.

✓ AI in Healthcare Finance

- **✓** Revenue Cycle Optimization
 - **✓** Intelligent Appeals and Collections
 - ✓ AI drafts customized appeal letters based on the denial reason, payer policies, and historical outcomes, expediting the appeals process.
 - ✓ Automated patient follow-ups using AI chatbots or messaging platforms increase payment rates while maintaining positive patient relations.

✓ Cash Flow Forecasting

- ✓ AI algorithms analyze historical billing data to predict cash inflows based on payer behavior, seasonality, and service mix.
- ✓ Allows for better financial planning and liquidity management.

✓ Coding and Documentation Improvement

- ✓ AI-assisted coding tools automatically suggest the most appropriate CPT/ICD-10 codes based on clinical notes.
- ✓ Reduces undercoding/overcoding risks and strengthens compliance.

✓ AI in Healthcare Finance

- **✓** Patient Billing and Cost Transparency
 - **✓** Real-Time Cost Estimates at Point of Service
 - ✓ AI tools integrate with payer databases to generate real-time out-of-pocket cost estimates based on insurance plan specifics, deductibles, and benefit structures.
 - ✓ Patients receive accurate pricing before services are rendered, improving financial preparedness and trust.

Automated Bill Review and Error Detection

- ✓ AI platforms can analyze itemized bills to identify potential billing errors, such as duplicate charges, upcoding, or services not rendered.
- This helps patients dispute erroneous charges and ensures providers maintain billing compliance.

Personalized Payment Plans

✓ AI evaluates patient financial profiles (insurance, credit data, historical payment behavior) to proactively recommend custom payment plans.

✓ Polling Question #2 To Join the Poll – Slido.com Participant #5412943 Password – oamccn Click on Poll on Top



Which of the following is not true about revenue cycle optimization?



- **✓** AI in Healthcare Finance
 - **✓** Patient Billing and Cost Transparency
 - **✓** AI-Powered Patient Advocacy and Negotiation Tools
 - ✓ Consumer-facing AI apps help patients negotiate medical bills by comparing charges against FAIR Health data, Medicare rates, or commercial payer benchmarks.
 - ✓ Some tools even automatically generate negotiation letters or suggest when to request financial assistance.
 - **✓** Transparency in Bundled Pricing and Alternative Payment Models
 - ✓ AI is used to design and present bundled service pricing to patients (e.g., knee surgery package covering facility, surgeon, anesthesia, and rehab). Enhances clarity and promotes value-based care initiatives.

- **✓** AI in Healthcare Finance
 - **✓** Insurance Claims and Denial Management
 - **✓** Predictive Denial Analytics
 - ✓ AI models analyze historical claims data to predict which claims are at high risk of denial even before submission.
 - ✓ Risk factors (e.g., payer-specific rules, coding patterns, missing documentation) are flagged for correction in real time.
 - **✓** Automated Appeals Generation
 - ✓ For denied claims, AI engines automatically draft appeal letters, citing payer policy language, clinical evidence, and regulatory support.
 - ✓ Reduces human error, ensures faster resubmissions, and shortens appeal turnaround times significantly.
 - **✓** Intelligent Claims Scrubbing and Pre-Submission Optimization
 - ✓ AI reviews claims before submission to ensure proper coding, authorization verification, bundling logic, and modifier usage.

✓ Polling Question #3 To Join the Poll – Slido.com Participant #5412943 Password – oamccn Click on Poll on Top



Which of the following is true about Al's impact on insurance claims and denials?



AI in Healthcare Finance

- **✓** Financial Planning and Forecasting
 - ✓ Predictive Revenue Forecasting
 - ✓ AI models analyze historical billing, payer mix, patient volumes, and market data to predict future revenue with high accuracy.
 - ✓ Factors like payer reimbursement trends, coding changes, and demographic shifts are automatically incorporated.
 - ✓ Allows finance teams to create scenario-based forecasts (best, base, worst-case projections).
 - ✓ Volume and Utilization Predictions
 - ✓ Machine learning predicts future patient volumes based on seasonality, epidemiological data (e.g., flu seasons, COVID-19 trends), and local demographics.
 - ✓ Forecasts help organizations plan staffing, supplies, and capital investments more accurately.

AI in Healthcare Finance

- **✓** Financial Planning and Forecasting
 - ✓ Real-Time Cost Modeling
 - ✓ AI continuously monitors variable and fixed costs (e.g., labor, supplies, facilities) and projects their impact on margins.
 - ✓ Provides real-time visibility into how operational decisions (like staffing changes or supply costs) affect financial budgets.
 - ✓ Cash Flow Forecasting and Liquidity Management
 - ✓ AI analyzes claims processing times, denial rates, and patient payment trends to predict cash inflows and outflows.
 - ✓ Finance leaders get early warnings about potential cash shortfalls or liquidity risks impact financial outcomes.

✓ AI in Healthcare Finance

- **✓** Financial Planning and Forecasting
 - ✓ Investment Planning and Capital Allocation
 - ✓ AI helps prioritize capital investments (new service lines, facility expansions, technology upgrades) by projecting ROI based on predictive financial scenarios.
 - ✓ Risk-adjusted forecasts improve decision-making around major expenditures.
 - ✓ External Market and Competitive Intelligence
 - ✓ AI tools scrape public financial reports, regulatory updates, and competitor activities to predict external pressures (e.g., rate negotiations, payer consolidations, legislative changes). Organizations adjust financial plans based on market-leading indicators, not just internal metrics.

- **✓** Summary of AI in Healthcare
 - **✓** Healthcare Business
 - ✓ Application Areas
 - ✓ Transforming Healthcare
 - ✓ Various AI Technologies
 - **✓** Healthcare Finance
 - ✓ Revenue Cycle
 - ✓ Patient Billing
 - ✓ Insurance Claims
 - ✓ Financial Planning
 - ✓ AI Developing Technology

✓ Polling Question #4 To Join the Poll – Slido.com Participant #5412943 Password – oamccn Click on Poll on Top



Which of the following is not true about Al's impact on financial planning and forecasting?



NJHFMA FACT Committee

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