



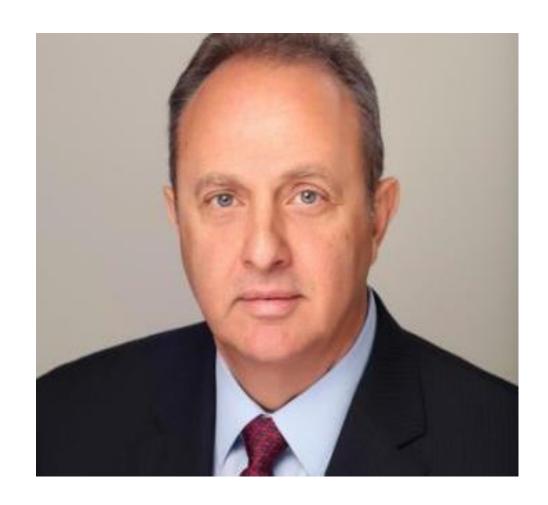
Artificial Intelligence Used in Billing

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Karim E. Sirgi, MD, MBA, FCAP

- Chair Practice Management Committee
- Member House of Delegates
- Member CAP Foundation, Governance Committee
- Board certified AP/CP and Cytopathology
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Topic for Today's Discussion

- Perceptions of Big Data and AI in Healthcare
- Defining the Clinical and Revenue Problem
- Revenue Cycle Driven Health System Decision Making Examples
- Getting Started With Data and Al
- Positive Implications to Cost Reduction Initiatives and Revenue
- Questions and Answers



Disclaimer

The information presented today represents the opinions of the panelists and does not represent the opinion or position of the CAP.

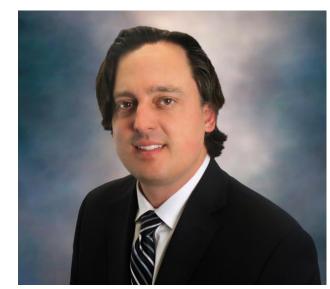
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Panelists



Jeff Carmichael, Vice President of Engineering

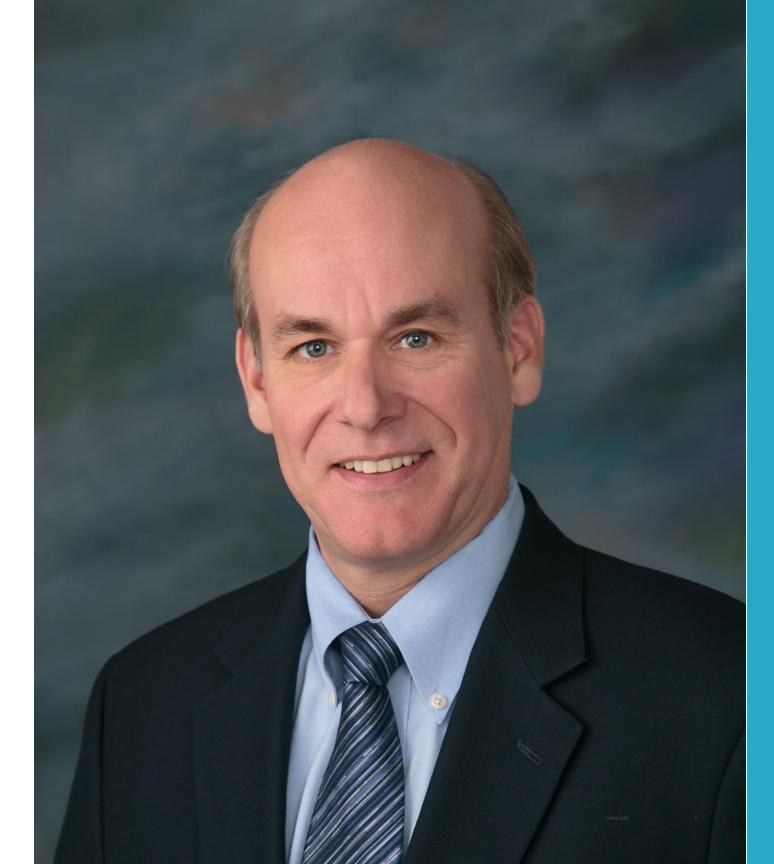


Joe Nollar, AVP LIS Product Development



Diana Richard, Director of Anatomic Pathology Program Development

Jeff Carmichael, Vice President of Engineering



Al and Healthcare: The Popular Narrative

- No doubt healthcare is ripe for improvement, and Al proponents see opportunity everywhere
- It's attractive to want to go after the hardest problems
 - Have a huge, often global impact potential
 - Highest risk, largest investment
- Primary focus of "Big Data" and Al is doing stuff that people are not able to do
- There are plenty of practical applications to use Al for things people are doing that Al can do better and at lower cost

NEXT GENERATION OF RADIOLOGY TOOLS EXPANDING ACCESS
TO CARE IN
UNDERSERVED OR
DEVELOPING
REGIONS

REDUCING THE BURDENS OF ELECTRONIC HEALTH RECORD USE

CONTAINING THE RISKS OF ANTIBIOTIC RESISTANCE

CREATING MORE PRECISE ANALYTICS FOR PATHOLOGY IMAGES

BRINGING
INTELLIGENCE TO
MEDICAL DEVICES
AND MACHINES

ADVANCING THE USE OF IMMUNOTHERAPY FOR CANCER TREATMENT TURNING THE
ELECTRONIC HEALTH
RECORD INTO A
RELIABLE RISK
PREDICTOR

MONITORING HEALTH THROUGH WEARABLES AND PERSONAL DEVICES MAKING SMARTPHONE SELFIES INTO POWERFUL DIAGNOSTIC TOOLS REVOLUTIONIZING
CLINICAL DECISION
MAKING WITH
ARTIFICIAL
INTELLIGENCE AT
THE BEDSIDE

RISK SCORING FOR CHRONIC DISEASES, POPULATION HEALTH

DEVELOPING PRECISION MEDICINE AND NEW THERAPIES BOLSTERING PATIENT ENGAGEMENT AND SATISFACTION

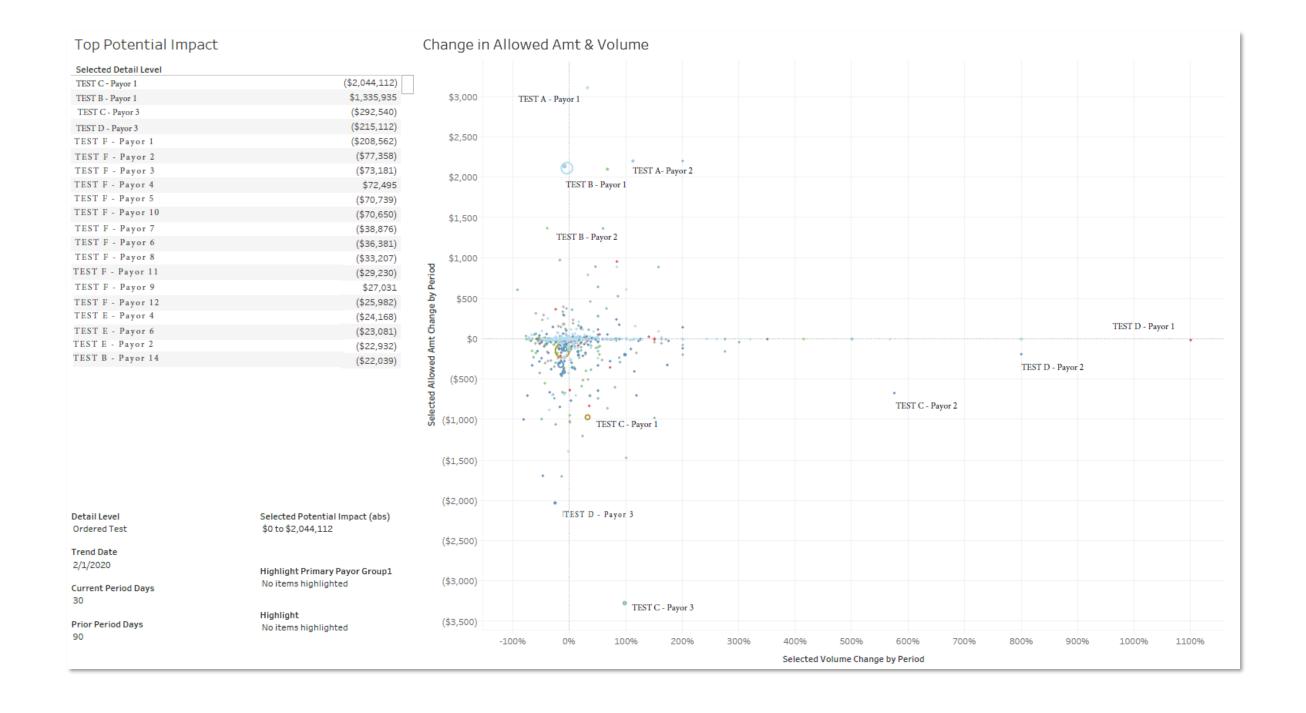
PREVENTING SUICIDE AND PATIENT SELF-HARM

https://healthitanalytics.com/news/10-high-value-use-cases-for-predictive-analytics-in-healthcare https://healthitanalytics.com/resources/topic/clinical-analytics

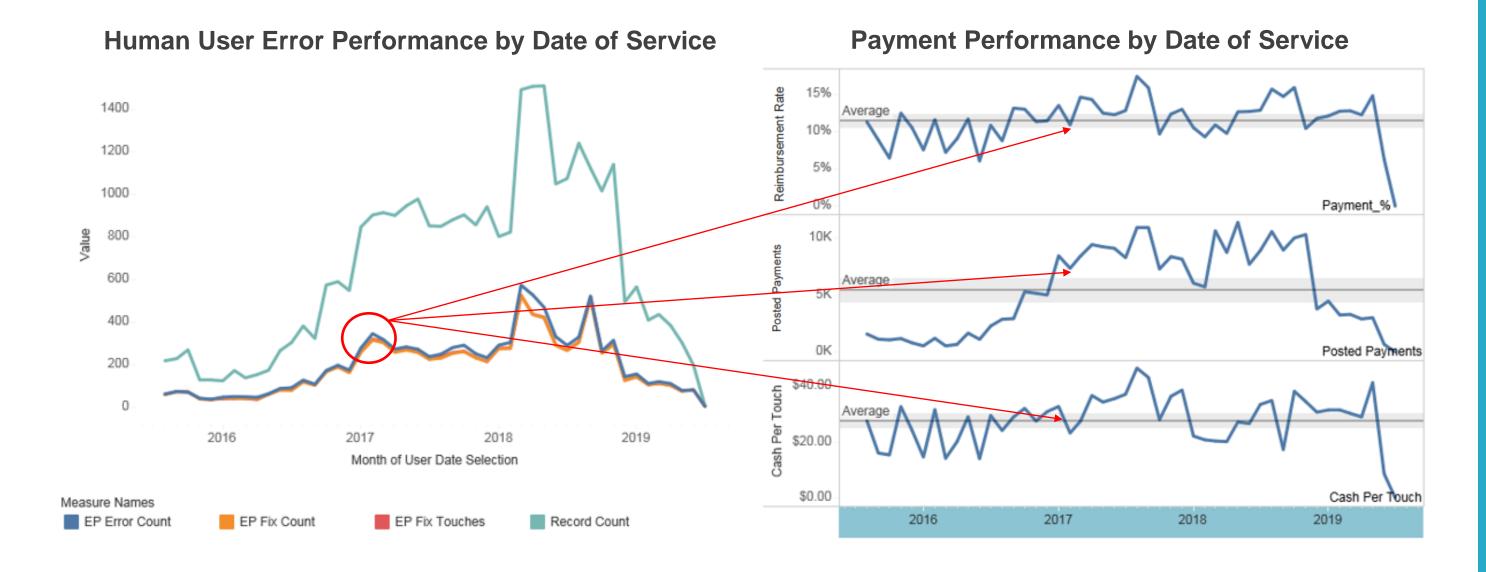
Defining the Revenue Cycle Problem

- 1. Thousands of procedures
- 2. Payor specific coverage policies for most of those procedures
- 3. Frequent changes in policies across the industry
- 4. Low reimbursement ranges minimize follow up work
- 5. Heavy dependencies on management through anecdotal feedback
- 6. Tens of billions of lost dollars buried in revenue adjustments every year
- 7. EMR and most practice management systems do not enable users to leverage data and Al to chase lost money in a cost-effective manner
- 8. Industry reports artificially high productivity numbers and collections against net revenue

Changes in Allowed Amount - Anomalies and Outliers



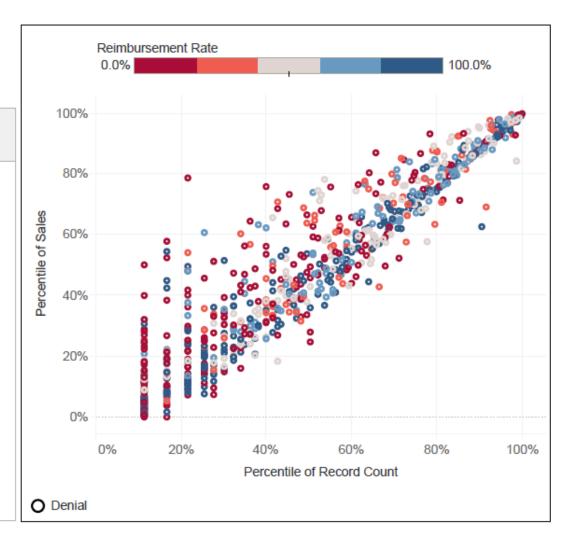
Exception Processing Performance



Productivity Analytics for Exception Processing

Error Processing Staff Performance

Fix User	User Seniority (Years)	Units Billed	Units Paid	PUP	Days Fixed	Fix Count	Posted Payments
User 13	5.6	101,658	80,321	79.0%	494	60,456	\$1,178,607.03
User 2	1.3	2	2	100.0%	1	1	\$43.28
User 5	1.4	389	332	85.3%	49	347	\$4,027.49
User 12	5.5	46	43	93.5%	10	46	\$567.76
User 3	1.0	1	1	100.0%	1	1	\$0.00
User 11	0.7	7	5	71.4%	3	7	\$1,704.85
User 1	2.6	31,714	19,741	62.2%	255	26,819	\$328,764.47
User 4	2.7	10	9	90.0%	3	10	\$83.44
User 15	5.4	7	0	0.0%	3	7	\$0.00
User 1	0.6	256	201	78.5%	15	220	\$2,640.49
User 6	0.1	6	6	100.0%	1	6	\$60.28
User 10	1.6	2	1	50.0%	2	2	\$9.21
User 14	5.6	50	0	0.0%	8	49	\$4.45
User 9	0.7	112	93	83.0%	9	111	\$2,212.38
User 7	5.6	4,911	3,713	75.6%	213	4,740	\$43,108.51
User 8	5.6	13	16	100.0%	3	8	\$49.78
User 16	5.5	64	51	79.7%	8	62	\$656.88
User 17	5.6	58	33	56.9%	15	58	\$253.64
User 20	1.3	3	3	100.0%	1	3	\$22.79



⁻ Only showing Third-Party primary payors. Excluding Client and Patient.

⁻ Only the last relevant error per accession and procedure are shown

Getting Started With Data: 4 Questions

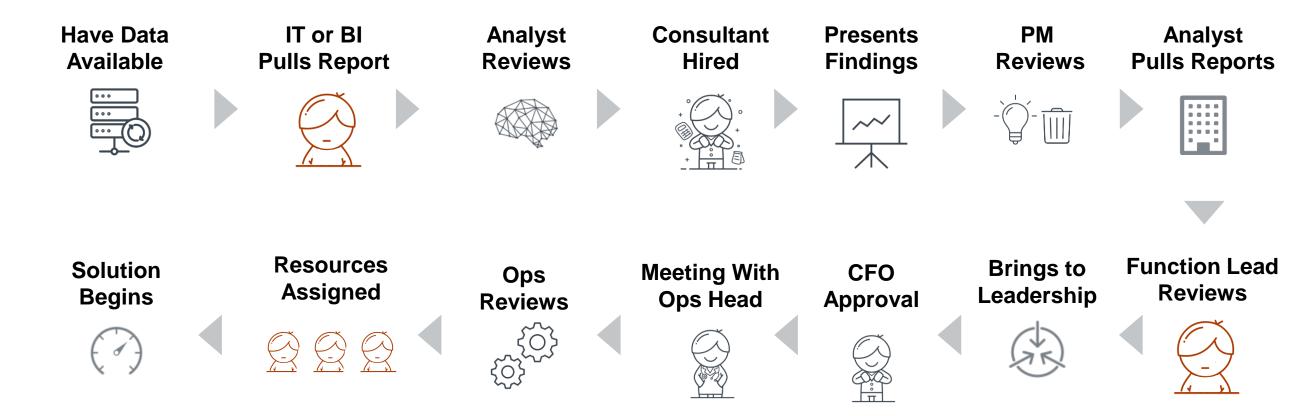
- Data Sourcing, Why it Matters
 - Quality
 - Complexity
 - Pitfalls & Best Practices
- How it is analyzed
 - What data to use
 - Analysis vs Dataset
 - Subject Matter Expertise

- What it doesn't tell us
 - Practical significance
 - Decisions
 - Actions
- How we can use it
 - To Take Action
 - Automation

Al Can Help Reduce the Time to Insight & Solution

Think about the current manual effort and the amount of resources dedicated to identifying issues and how to solve them.

Manual Process Improvement



RCM Insight-Driven Health System Decision Making



Denials & Root Cause Management

Automatically identify and mitigate upstream root-causes that are causing your most impactful issues.



Labor & Productivity

Understand claim touch efficiency and staffing alignment while measuring overall performance.



Insurance Collections

Predict, segment, assign, and prioritize your A/R based on an account's potential costbenefit outcome.



Financial Forecasting

Ensure cash forecasts, volumes, auditable reports, and reserve methodologies are appropriately managed.



Patient Collections

Assess patient payment risk without FICO scores and segment receivables by engagement tactic.



Report Enhancement

Automatically build reporting elements that enhance the way that you report and analyze your data.

Resources

- Practice Management Resources
 - https://www.cap.org/member-resources/practice-management
- Value-Based Business Toolkits
 - https://www.cap.org/member-resources/practice-management/value-based-business-toolkits

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