FIVE PRACTICAL WAYS
EMBEDDED AI
IS RESHAPING REVENUE
CYCLE MANAGEMENT

From Reducing Friction to Accelerating Reimbursement



Speakers



Jeff Carmichael
Senior Vice President,
Engineering
XiFin, Inc.

Jeff's engineering leadership spans more than 20 years and encompasses networking, security, and Healthcare software and systems. He brings a career-long focus on data-driven insights and prediction through advanced data modeling across several industries.

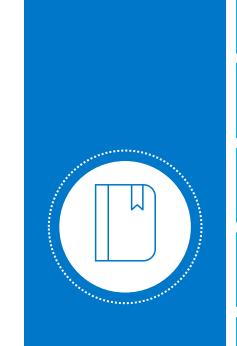
Before joining XiFin, Jeff led worldwide software development for the network and security division of LSI Corp. He has held senior-level leadership positions at several successful startups and divisional leadership positions at Intel.



Sandra Greefkes
Vice President of
Product & Partner
Marketing, XiFin

Sandra Greefkes leads the product and partner marketing team at XiFin, Inc. and has more than 20 years of experience helping business, public sector and healthcare leaders learn how they can leverage digital transformation strategies for competitive differentiation and to increase profitability.

Overview



The Foundation of Analytics, Automation, and Al

Confidence and Contemplation: Where are your peers?

What is the Path to Getting the Most Value from Al Initiatives?

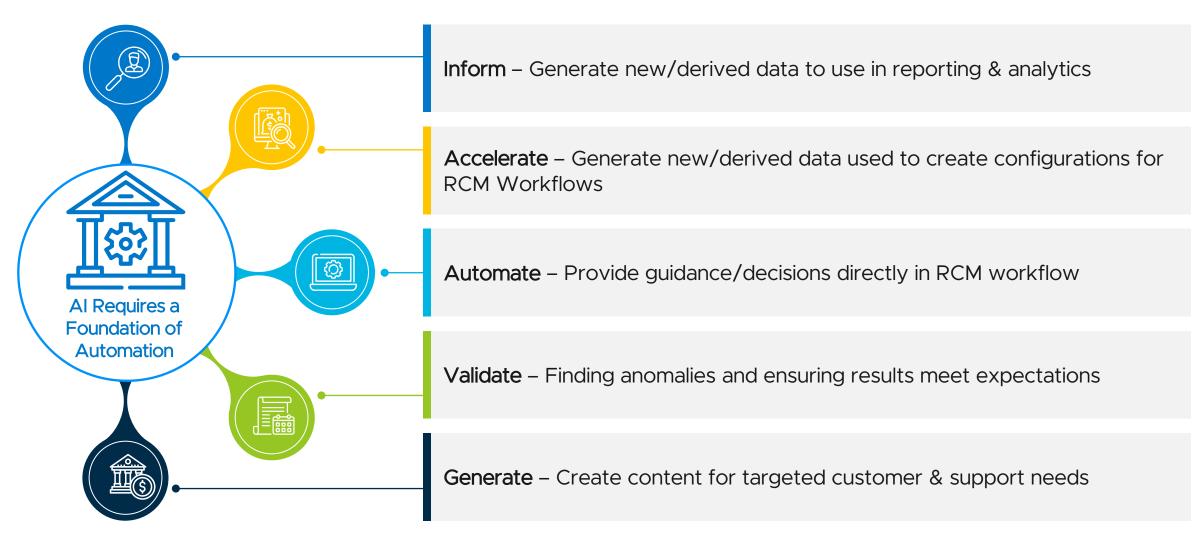
Five Ways AI is Reshaping RCM

Future-Ready Infrastructure and the Importance of AI Transparency

Assessing Organizational Skills Sets, Expertise, and Technology

What You Can Do With Al

Al alone doesn't solve problems. Al may not be the solution.

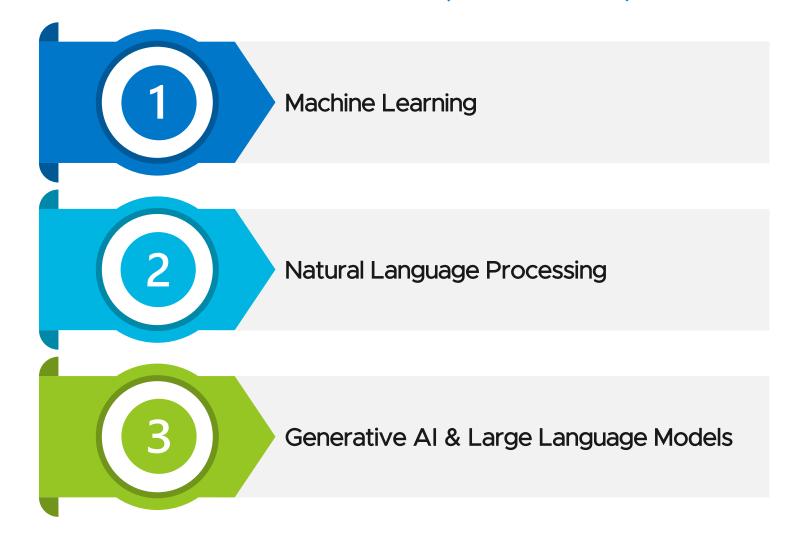


Robotic Process Automation vs. Al

RPA (Process Driven)

- RPA is a rule-based software engine that has no intelligence and automates repetitive tasks.
- RPA has a software robot that mimics human actions, whereas AI is concerned with the simulation of human intelligence by machines.

Three Kinds of Relevant AI (Data-Driven)





BALANCING RISK & REWARD OF GENERATIVE AI



What is your confidence in AI for RCM? Do you trust it?

- A. No, AI is too risky
- B. No, RCM is too complicated
- C. Mixed, I need to be convinced
- D. Yes, we are testing Al
- E. Yes, we are all in on Al

Answer Options	143 Responses via HFMA Webinar	75 Responses via Dark Webinar
No, AI is too risky	1.4%	N/A
No, RCM is too complicated	2.8%	1%
Mixed, I need to be convinced	75.5%	69%
Yes, we are testing AI	16.8%	19%
Yes, we are all in on AI	3.5%	11%

Are You Contemplating or Using RPA / Al for RCM?

- a) We are not contemplating using AI for RCM
- b) We are planning to use AI for RCM
- c) We use Robotic Process Automation
- d) We use Machine Learning or Natural Language Processing
- e) We use Generative AI Large Language Models

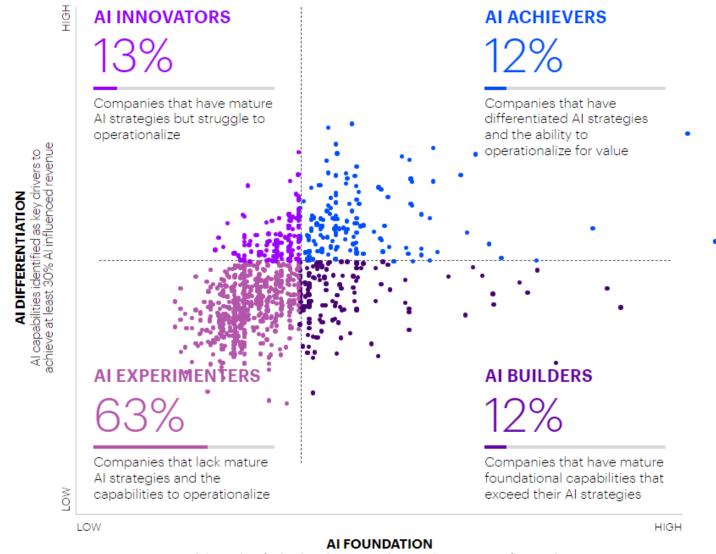
Answer Options	75 Responses via Dark Webinar
We are not contemplating using AI for RCM	15.1%
We are planning to use AI for RCM	17.7%
We use Robotic Process Automation	10.7%
We use Machine Learning or Natural Language Processing	3.7%
We use Generative AI – Large Language Models	1.8%

Data-to-Al Continuum

All Industries, Company Sizes, Region

An organization's journey can be charted against a maturity model that encompasses these dimensions:

- Strategy and governance
- Architecture
- Development
- Regulation and ethics
- User support



Al capabilities identified as key drivers to achieve at least 10% Al influenced revenue

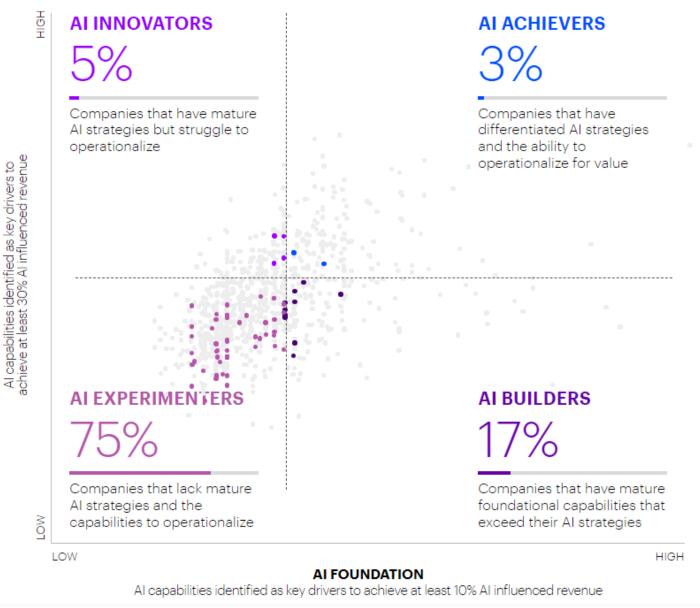
 $Source: https://www.accenture.com/_acnmedia/pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization-becoming-data-driven-enterprise-data-industrialization-becoming-data-driven-enterprise-data-driven$



Data-to-Al Continuum

Healthcare

- Healthcare organizations tend to be late adopters of digital transformation tech for administrative purposes
- Healthcare SaaS vendors who are AI mature can offer their customers access to AI at scale



Source: https://www.accenture.com/_acnmedia/pdf-83/accenture-becoming-data-driven-enterprise-data-industrialization.pdf

The Journey Toward Data, Automation, and Al Supremacy

Where is your laboratory? What is the plan to accelerate your AI maturity?

Building Data/Al Data/Al as a **Data Ideation** Data/Al as a Data as Siloed Recognize the Momentum Differentiator Currency **Activity** Proves the value of data and Well-defined Treated as first-Siloed activity. value of data and automation. data/Al methods. class citizen. Core Limited capacity Provides selfto the business Develop a automation. for internal data/automation Starts service strategy and sharing. Lack of mindset via standardizing capabilities. drives optimal data strategy/ business vision tools and using Expands its use business architecture. and strategy. AI. out into the outcomes. connected ecosystem. Success hinges entirely on the data and the underlying structure. **EMBEDDED** DATA DATA DATA & **AUTOMATION SILOS ANALYTICS AUTOMATION & AI** ΑI

A Simple Example of Payor's Marketing Teams Impacting Your RCM... Those little icons on your insurance card







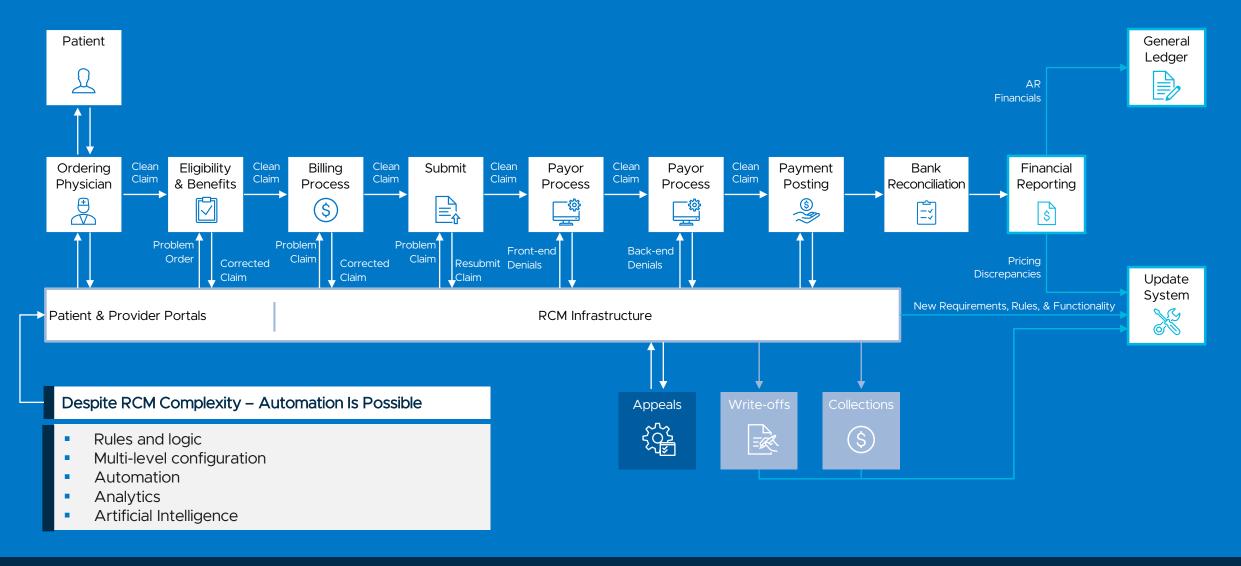
- * RCM Data is complicated.
- ❖ Dirty or unstructured data leads to unintelligent AI.

- Applying analytics to RCM derives actional and understanding insights.
- It identifies problematic data models and forces optimal data structures.
- Al success depends on data quality and training models and approaches.

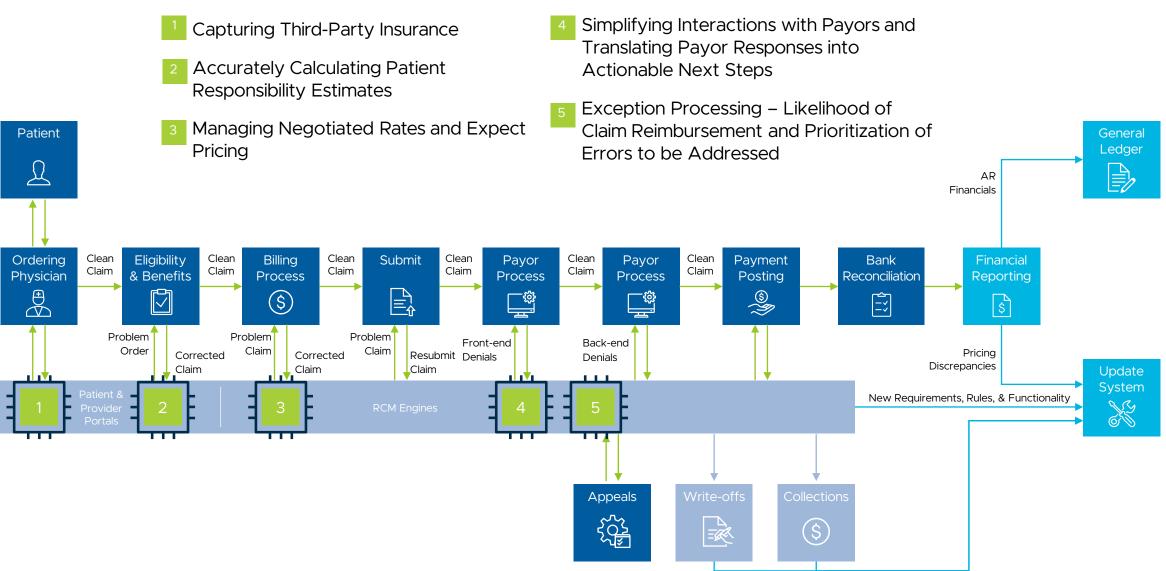


Step-by-Step View of the Lifecycle of a Claim

Automation Demands Purpose-built Data Modeling, Logic, and Interoperability



Embedded Al: Applications Throughout the Billing Process



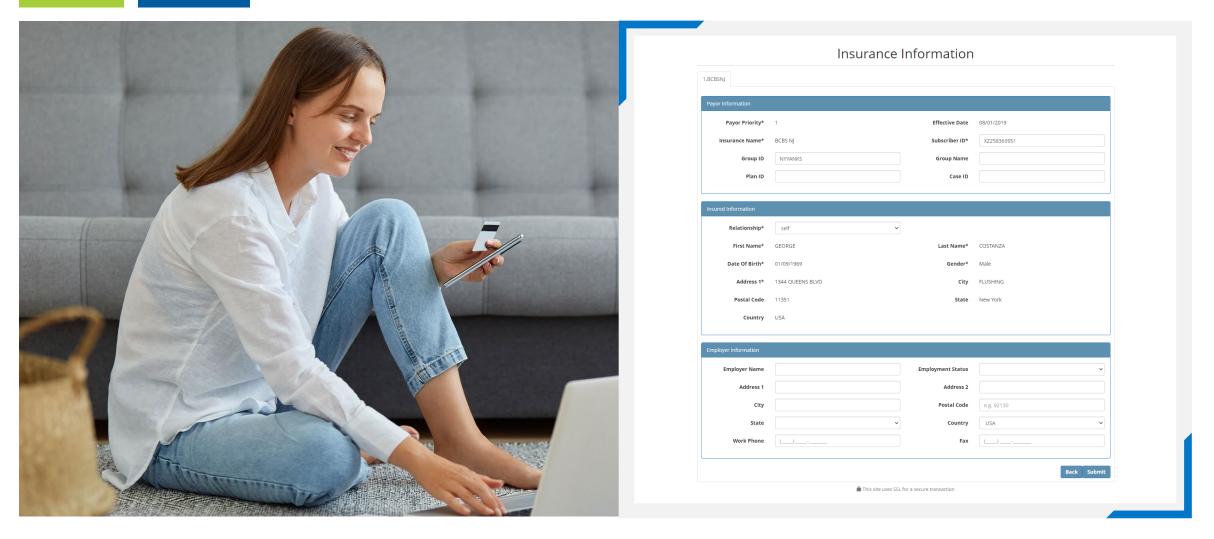
1

Patient



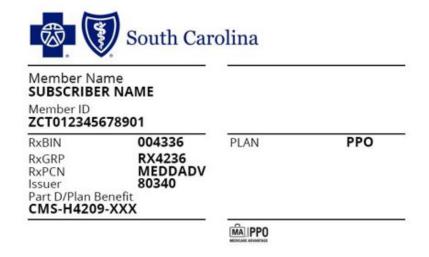
Insurance Information Required from Patients is Extensive

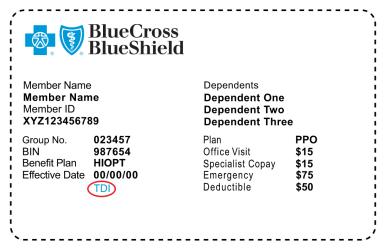
Reading the insurance card and hunting for the information being requested

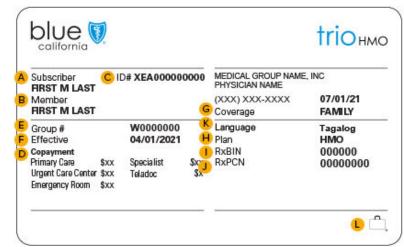




But It Doesn't End With Getting The Right Payor Name





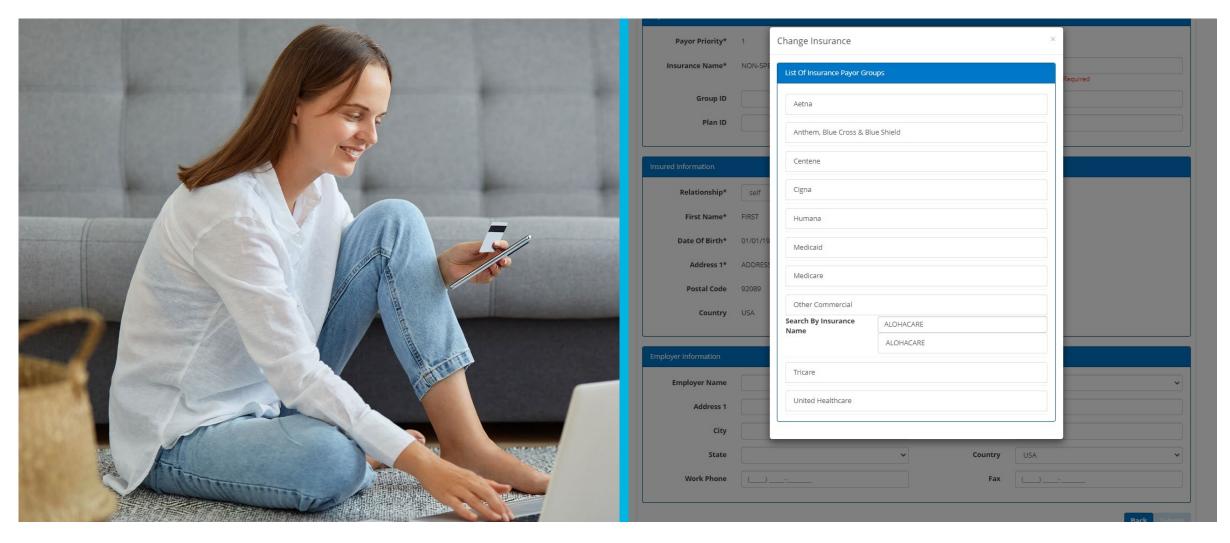


Payor Discovery Al and Automation

- Subscriber ID not sufficient for eligibility, benefits coverage determination or patient estimation
- Al removes the onus on the patient and the physician by uncovering the underlying payor details.
- OCR can interpret the insurance card
- Al can discover the RCM payor plan details for that claim so that it can be processed without manual intervention.

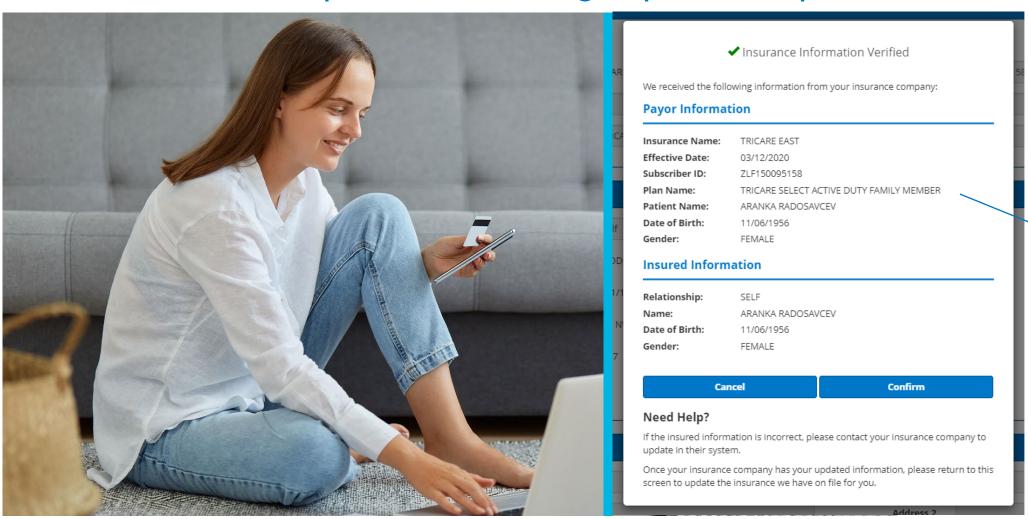
Removing Friction From the Patient Experience

Simplifying Patient Input and Eligibility Verification Using AI



Al Uncovers the Insurance Information

Minimal Information Capture or Card Image Upload Completes the Process





Al maps the payor eligibility response data to the appropriate RCM payor plan/fee

schedule

2



Patient Responsibility Estimation

5 Practical Ways Embedded AI is Reshaping RCM // XiFin Proprietary Information. All Rights Reserved.

Predicated on receiving complete and accurate information back from the payor and having the appropriate expect amount on record

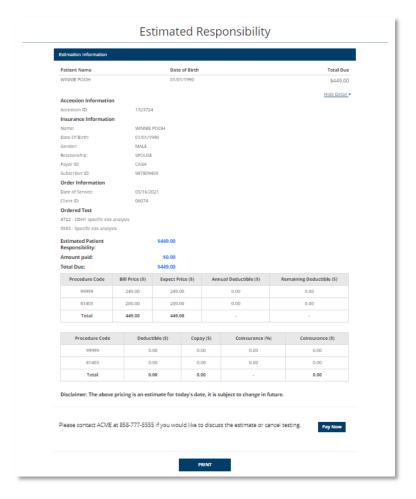


Must consider relevant provider-specific pricing information, test or procedure information, and real-time eligibility to determine patient responsibility amount.



Provides an estimate of what should be collected from the patient at the time of service or at the time of order.





Patient Estimation: Why Eligibility Info Isn't Enough

Provider network status is not determined

Generalized to Service Type:

- Very few procedure-/service-level responders
- Coverage limitations not considered

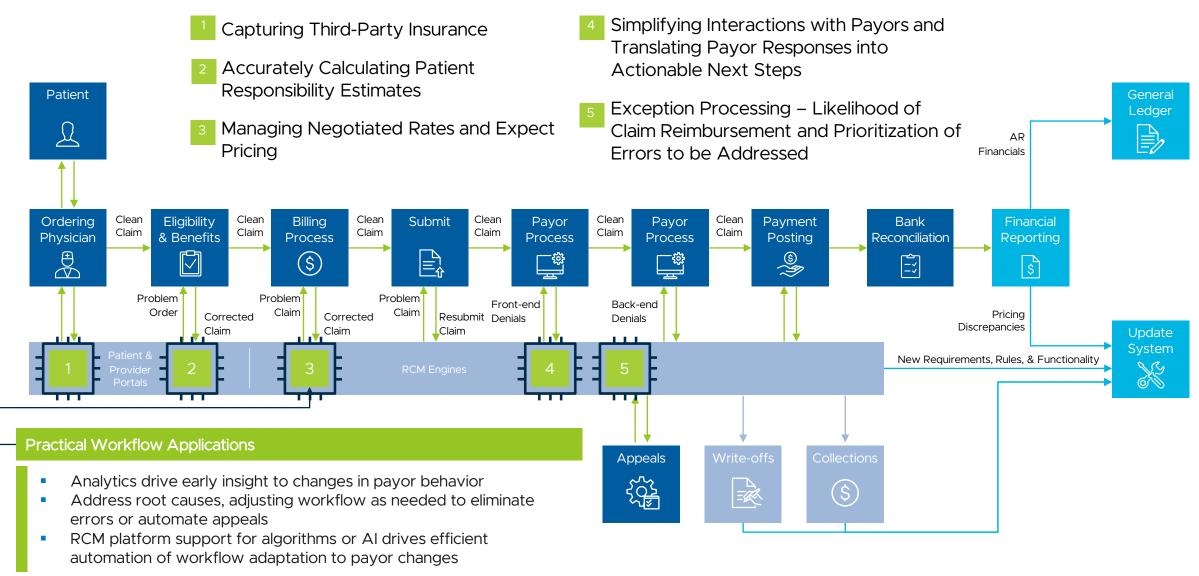
Multiple and conflicting/overlapping service-type benefit descriptions.

- 43 different potentially applicable coinsurance benefit loops
- 3 different potentially applicable values
- None matched what was actually adjudicated

Rules are complex, differ from payor to payor, and don't always get to a unique result that will match adjudication. Machine Learning Models trained on recently adjudicated claims can overcome these challenges and provide accurate:

- Expected Allowed Amount
- Estimated Copay
- 3. Estimated Coinsurance
- 4. Risk of Coverage Limitations

Embedded Al: Applications Throughout the Billing Process



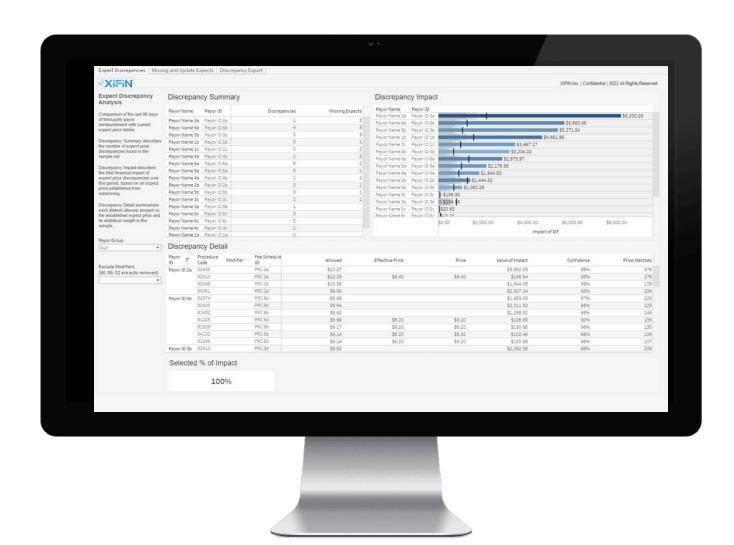






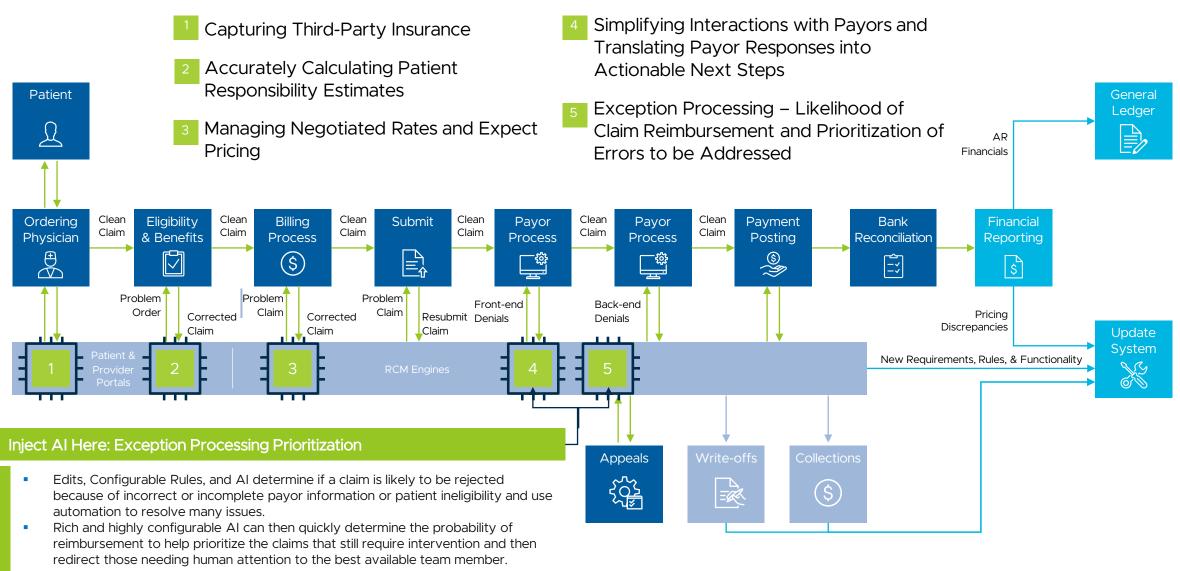
Negotiated Rates and Expect Pricing

- An accurate picture of expected payor reimbursement is critical to many RCM and financial functions.
- Contracted and non-contracted health plans.
- Are you receiving the appropriate reimbursement?
- ML-based historic data modeling can assist with determining expected reimbursement.
- Results may be driven into RCM configuration or determined in-line within the workflow.





Embedded Al: Applications Throughout the Billing Process



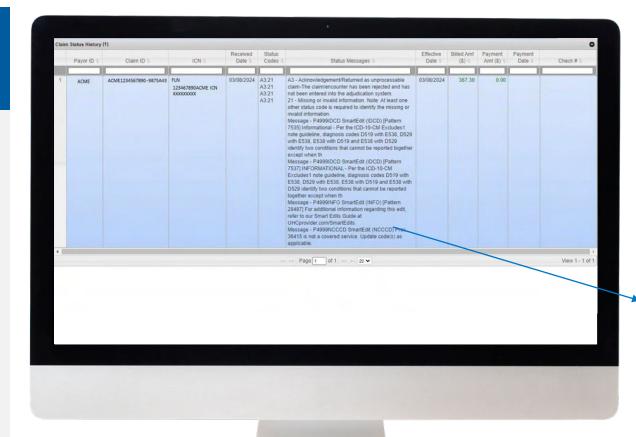
4



Simplifying Interactions with Payors and Translating Responses into Actionable Next Steps

Unstructured payor responses are RIPE for Al-driven automation

- Front-end payor acknowledgments are often returned with a generic status code (A3:21) and details are added in the STC-12 field (or elsewhere) with unstructured text.
- Depending on the size and volume of healthcare providers, these number in the tens of thousands of varied text responses.
- Complicating the matter further are the multiple text explanations for one status code.
- Many RCM teams have these set to "manual hold" in their process and require human intervention, translation, and action.



In this example, the multiple unstructured notes indicate that there are diagnosis codes that shouldn't be reported together, among other issues.

consumes
unstructured
text to drive
next actions
within RCM
workflow



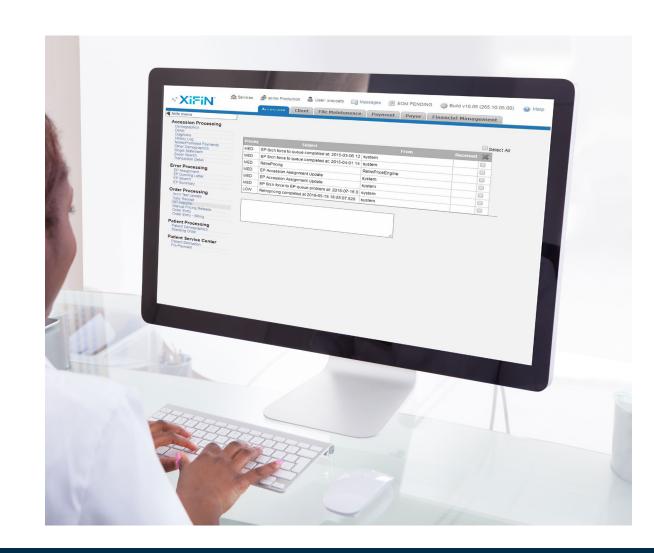




Al-Driven Workflow:

Assigning Exceptions to be Worked by Billing Team members

- Exceptions Prioritized by Payment Risk
- Exceptions Routed to the Best Billing Team Member to Correct
- Exception-Processing Assignment
- Prioritized Exception-Processing
 List for each Billing Team Member





Future-Ready Infrastructure and Expertise



RCM Expertise

Deep domain expertise and skill sets specific to RCM data modeling, analytics, AI, infrastructure, and automation.



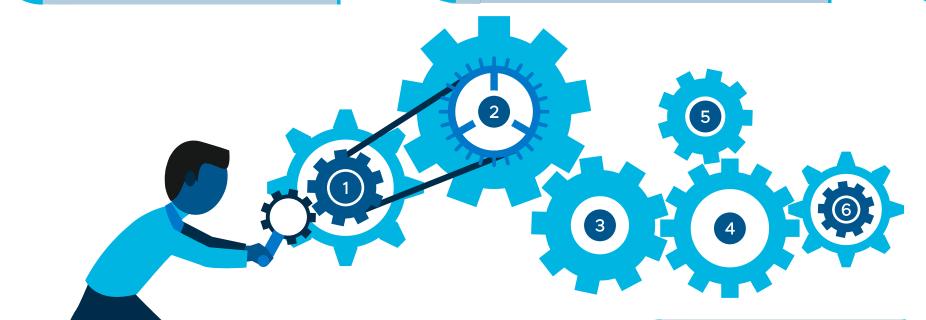
Modular and Interoperable RCM Infrastructure

Built to support the end-to-end patient, physician, and payor interaction.



Data Model

Accounting and financial foundation of RCM data model.





Automation

Highly configurable and multi-level rules and logic to drive automation at every set of the workflow.



Analytics

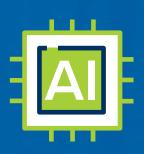
Advanced analytics and visualizations to drive actionable insights and to help measure AI outcomes.



Artificial Intelligence

Workflow-embedded machine learning, natural language processing, and generative AI.

Al Program Transparency







RCM-Focused AI Skills Set or Partnership Considerations

Validate Internal Skills Sets or Seek Out Expertise Via Partners Who:



Understand healthcare data models and metrics specific to financials and operational workflow.



Can advise about which AI approaches (Statistical, Machine Learning and/or Natural Language Processing, Generative AI) are best by purpose.



Can scope and deliver business-critical metrics and indicators.



Able to identify the most appropriate/useful analytics to achieve a particular goal or address a particular challenge.



Develop customized and reusable data/AI models and can integrate additional data from multiple sources and across the RCM process.



Flexible model related to the roster of expertise and skill set (in-house, outsourced, ongoing RCM partner, point-solution partnership).



Have track record of working with combined clinical/financial analytics.



RCM partner supplementation of existing analytics/AI resources on a short-term basis or longer-term engagement.



QUESTIONS?



JEFF CARMICHAEL

SVP, Engineering

SANDRA GREEFKES

VP, Product and Partner Marketing

info@xifin.com

12225 El Camino Real San Diego, CA 92130

