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Revenue Cycle Management Technology Adoption Model

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Learning Objectives

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- Overview of healthcare market headwinds and profitability challenges
- Identify the correlation between RCM technology adoption patterns and resulting financial performance
- Adopt a company-agnostic revenue management technology model based on the experience of well over 100 health systems, where assessments of the critical revenue capture elements are weighted and identified
- Assess an organization's current adoption stage and establish technology adoption strategies to achieve improved KPI-based revenue management goals



Recovery...



KH: Promising Margin Recoveries in '23 and Into '24





Weekly Visit Volumes - By Treatment Setting





US Healthcare Position Openings and Hirings

2018 - 2023 (000s) - BLS JOLTS Survey





AHA: Payers are Playing Hardball

"Commercial health insurer policies and administrative practices delay patient care, overburden clinicians and withhold critical payments from providers..."

Contributing to workforce burden:

- 95% of hospitals and health systems report increases in staff time spent seeking prior authorization approval
- 84% report the cost of complying with insurer policies is increasing
- 62% of **prior authorization denials** and 50% of initial claims denials that are appealed are ultimately overturned

And it is only getting worse:

• 78% of hospitals and health systems report that their experience with commercial insurers is getting worse



Denials are Almost 4x What They Were in 2018





Revenue Cycle Management Market Approach





Health Systems Shifting From Revenue Recovery to Growth

Survey Methodology

- 92 unique organizations
- CRO/CFO, SVP or VP RCM, Director RCM
- All major EHRs
- NPR and Bed-Size
- 26,719 unique data points





Financial leaders are looking for strategic partners to chart a course forward.

Most health systems have contracted with **upwards of 40 vendors** to support their revenue cycle management teams.

	Front-End				Mid-Cycle		Back-End			
Patient Engagement	Pre-Service Clearance	Authorization	Patient Financial Engagement	Clinical Doc.	Encounter Coding & Charge Capture	Claims Processing & Payment	Insurance Collections	Patient Payment & Billing	Revenue Recovery / Protection	
CRM & Referral Management	Eligibility & Benefits Verification	Prior Authorization / Certification	Patient Out- of-Pocket (OOP) Estimation	Transcription	Coding	Claims Edits	AR Management	Inbound / Outbound Patient Calls / IVR	Insurance Discovery	
Patient Scheduling	Patient Registration / Pre-registration	Medical Necessity / ABN	Propensity- to-Pay / SDOH Risk Analytics	Clinical Doc. Improvement	Charge Capture	Claims Status	Contract Management	Paper Patient Statements	Bad Debt Collection	
Patient Portal / Mobile App	Registration Quality Management	Notification of Admission	Charity Care Evaluation	Provider Query Management	CDM Automation	Claims Clearinghouse	Contract Modeling	Consolidated Patient Amount / E-statement	AR Recovery	
Pricing Transparency	Patient Financial Clearance	Patient POS Payment and Plans & Financing			Recovery Audits	Remittance Matching	Reserves Management	Mobile Payments / Text-to-Pay	Government Complex Reimbursement	
Virtual Front Desk	Patient Identity Verification					Encounter Clearinghouse	Third Party Liability	Online Payments		
Patient Reminders	Insurance Discovery					Complex Claims	Early-out Collections	Patient Payment Plans & Financing		
	Foundation									
Analytics		AI/MI	/NLP	P RPA		Billing and Coding Reference Tools		RCM Workforce Education Content		



Common Concerns from RCM Leadership

- What is outside my core EHR and why?
- What RCM technology is in place today?
- What is my total cost of ownership?
- Has the yield from the solutions improved?
- What are the IT and data connections?
- What is my strategic path to RCM excellence?
- Where can I automate or leverage predictive analytics?
- How many vendors do I need?





RCM vendor performance has been **difficult** to measure, **expensive** to maintain and **duplicative** in offerings

Hospitals are closely evaluating third party relationships – looking to **consolidate** or **eliminate**





Revenue Cycle Management Technology Adoption Model (RCMTAM)



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An Evidence-Based Approach to RCM Digital Transformation

Research Hypothesis

The industry lacks an RCM-focused technology adoption model to support digital transformation efforts.

Methodology

- 100 unique organizations (now at 120+)
 - + 15 Safety Net Organizations
- All major EHRs
- NPR and Bed-Size
- 31,145 unique data points



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Analysis and Findings

Analysis

1

Focus adoption model on high impact technologies.

We asked survey respondents to categorize each technology into "Mission Critical", "High Value", "Moderate Value", "Minimal Value", and "No Value / Not RCM."

2

Align the RCM Technology Adoption Model stages with average industry adoption. We segmented the remaining technologies into 4 technology adoption maturity stages based on the percent of respondents that listed a technology as being adopted within their organization

- Greater than 80% adoption of technology
- Between 70%-80% adoption of technology
- Between 60%-70% adoption of technology
- Below 60% adoption of technology

Results

1

All technologies included in initial study rated as "Moderate Value", "Low Value", or "No Value" were removed from model.

2

Technologies have been grouped into stages based on average adoption by industry. Technologies perceived as having limited value were identified and removed from the adoption model analysis across all areas: Patient Access, Mid-Cycle, Back Office, and Analytics.

Only "Mission Critical" and "High Value" technologies were included in the resulting RCM Technology Adoption Model.

The RCM Technology Adoption Model highlights Mission Critical and High Value technologies spanning all stages, even low adoption stages, suggesting the model is effectively identifying high impact established and emerging technologies.

The RCM Technology Adoption Model

Mission Critical or High Value Technology in use by **more than 80%** of respondents

Broad Industry Adoption

Eligibility & benefits verification					
Patient registration / pre-registration	Patient Access				
Medical necessity/ ABN					
Charge capture					
Chargemaster technology	Mid- Cycle				
Discharge planning					
Claims manager					
Claims edits					
Claims clearinghouse					
• Claims status	Back Office				
Paper patient statements					
Collections management					
Bad debt collections					
A/R analytics					
Claims analytics					
Collections analytics	Analytics				
Coding analytics					
Patient volume analytics					

Mission Critical or High Value Technology in use by **70% to 80%** of respondents

High Adoption

Referral management				
Patient portal / mobile app				
Patient identify and address verification				
Pricing transparency (shoppable services + MRFs)	Patient			
Patient OOP payment estimation	Access			
Patient financial clearance				
POS payment capture				
Charity care evaluation				
Clinical documentation integrity (CDI)				
Clinical documentation - transcription/NLP	Mid- Cycle			
Utilization Review				
Denials management				
Underpayment recovery				
Consolidated patient statements				
Remittance management				
Complex claims	Back			
Encounters clearinghouse	Office			
Contract management				
Third-party liability				
Medicare bad debt				
Call center automation/IVR				
Contract analytics				
Denials analytics	Analytics			
Patient access analytics				

Mission Critical or High Value Technology in use by **60% to 70%** of respondents

Moderate Adoption

Patient self- scheduling				
Prior authorization/certification				
Patient appointment reminders				
Pre-visit Propensity to pay	Patient Access			
Pre-visit payment plan enrollment				
Self-service patient payments (pre-visit)				
Registration quality management				
Physician CDI/Coder querying technology	Mid-			
Predictive CDI Worklist prioritization	Cycle			
Post-visit insurance discovery				
Disproportionate share reporting				
Transfer DRG	Back			
Post-visit payment plan enrollment	Office			
Self-service patient payment (post-visit)				
Automated remittance matching				
Data extraction capabilities				
Drill-down to transaction level capabilities				
Contract modelling	Analytics			
Physician practice operations analytics				
Uncompensated care analytics				

Mission Critical or High Value Technology in use by **less than 60%** of respondents

Emerging Adoption

	Pre-visit insurance discovery	
	Prior authorization automation	
	Automated determination	
	Automated data extraction and submission	Patient Access
	Prior authorization status monitoring	
	Virtual front desk	
	Self-triage / care navigation	
	Clinical documentation - ambient clinical intelligence (ACI)	
	Computer assisted physician documentation (CAPD)	
	Computer assisted coding	Mid
	ML-based ICD & CPT coding	Cycle
	ML-based DRG assignment	
	Case management	
	SDOH risk analytics	
	SDOH referral management	
	Predictive denials warnings	Back
-	Automated appeals workflows	Office
	End-to-End RCM analytics	
	Real-time, near real-time refresh capabilities	
	Patient matching / deduplication capabilities	Analytics
	Intelligent denials and underpayment root cause analysis	

Key: Mission Critical



Analysis and Findings

Analysis

Segment individual respondents into an RCM Technology Adoption Model Stage.

Respondents were assigned their maturity stage if they reported adoption of:

- Adoption of 90% of Mission Critical technologies of the rated stage .
- **And** adoption 50% of High Value technologies of the rated stage.
- And meet rating criteria for all prior stages.

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Results

Respondent distribution across the model stages is V-shaped. Suggestive of a healthy population of innovators and early adopters within the market, and oversized population of technology adoption laggards that would benefit from this model.

Stage #	1	2	3	4	5
% Respondents	43%	33%	8%	12%	4%
		Breadt	h of technology	r in use	
					,

Typical Stage for most US health systems.

Stage 1 respondents have not yet adopted 90% of "Mission Critical" and 50% of "High Value" Technologies found in the Broad Industry Adoption category Stage 5 respondents have adopted 90% of "Mission Critical" and 50% of "High Value" technologies across stages 1-5.

The RCM Technology Adoption Model

33% of respondents

43% of respondents fall into Stage 1

Stage 1

Industry Average Technology Adoption

- 43% of market is currently operating in Stage 1
- Stage 1 is the starting point for most organizations that leverage the RCM TAM.
- Not yet live with 90% of Mission Critical technologies and 50% of High Value Technologies required for Stage 2.

fall into Stage 2				
Stage 2				
Eligibility & benefits verification				
Patient registration / pre- registration	Patient Access			
Medical necessity/ ABN				
Charge capture				
Chargemaster technology	Mid- Cycle			
Discharge planning				
Claims manager				
Claims edits				
Claims clearinghouse				
Claims status	Back Office			
Paper patient statements				
Collections management				
Bad debt collections				
A/R analytics				
Claims analytics				
Collections analytics	Analytics			
Coding analytics				
Patient volume analytics				

8% of respondents fall into Stage 3	
Stage 3	
Referral management	
Patient portal / mobile app	
Patient identify and address verification	
Pricing transparency (shoppable services + MRFs)	Patient
Patient OOP payment estimation	Access
Patient financial clearance	
POS payment capture	
Charity care evaluation	
Clinical documentation integrity (CDI)	
Clinical documentation - transcription/NLP	Mid- Cycle
Utilization Review	
Denials management	
Underpayment recovery	
Consolidated patient statements	
Remittance management	
Complex claims	Back
Encounters clearinghouse	Office
Contract management	
Third-party liability	
Medicare bad debt	
Call center automation/IVR	
Contract analytics	
Denials analytics	Analytics
Patient access analytics	

12% of respondents fall into Stage 4

Stage 4

Patient self- scheduling			
Prior authorization/certification			
Patient appointment reminders			
Pre-visit Propensity to pay	Patient Access		
Pre-visit payment plan enrollment			
Self-service patient payments (pre- visit)			
Registration quality management			
Physician CDI/Coder querying technology	Mid-		
Predictive CDI Worklist prioritization	Cycle		
Post-visit insurance discovery			
Disproportionate share reporting			
Transfer DRG	Back		
Post-visit payment plan enrollment Office			
Self-service patient payment (post- visit)			
Automated remittance matching			
Data extraction capabilities			
Drill-down to transaction level capabilities			
Contract modelling	Analytics		
Physician practice operations analytics			
Uncompensated care analytics			

4% of respondents fall into Stage 5

Stage 5

Pre-visit insurance discovery	
Prior authorization automation	
Automated determination	
Automated data extraction and submission	Patient
Prior authorization status monitoring	
Virtual front desk	
Self-triage / care navigation	
Clinical documentation - ambient clinical intelligence (ACI)	
Computer assisted physician documentation (CAPD)	
Computer assisted coding	Ma
ML-based ICD & CPT coding	Cycle
ML-based DRG assignment	
Case management	
SDOH risk analytics	
SDOH referral management	
Predictive denials warnings	Back
Automated appeals workflows	Office
End-to-End RCM analytics	
Real-time, near real-time refresh capabilities	
Patient matching / deduplication capabilities	Analytics
Intelligent denials and underpayment root cause analysis	

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Analysis and Findings

Analysis

2

Correlate the RCM Technology Adoption Model with financial performance improvement across stages. Average financial performance against an industry recognized set of KPIs was captured from all respondents.

Average financial performance was calculated and compared across each stage.

Respondents reporting low technology use				Respo repoi techn	ondents rting high nology use
Stage #	1	2	3	4	5
% Respondents	42%	25%	17%	16%	16%

*Stage 1 respondents have not yet adopted 90% of "Mission Critical" and 50% of "High Value" Stage 1 technologies.

Results

2

Notable financial performance improvements were detected in 9 key areas. Organizations falling in Stage 4 or above outperform organizations in Stage 1 in the following areas:

	Financial KPI	Percent Difference Between Organizations at Stage 1 Compared to Organizations at Stage 4 or Above (average)
	POS Collections	29% increase
Financial	% A/R days > 90	21% reduction
Analysis Snanshot	Denials Rate	16% reduction
Shapshot	Cost to Collect	11% reduction
	Bad Debt	7% reduction



The RCM Technology Adoption Model Pre-Read Perceptions



Compared to peers, where would you anticipate placing in your current use of RCM Technology?

0%	25%	50%	75%	100%
Respondents reporting low technology use				Respondents reporting high technology use

Example Only

Stage 1 Industry Average Technology Adoption

Technology Adoption

33% of respondents fall into Stage 2

8% of respondents fall into Stage 3

Eligibility & benefits verification	L	
Patient registration / pre-registration	L	Patient Access
Medical necessity/ ABN	L	
Charge capture	L	
Chargemaster technology	\checkmark	Mid Cycle
Discharge planning	L	
Claims manager	\checkmark	
Claims edits	\checkmark	
Claims clearinghouse	\square	
Claims status	L	Back Office
Paper patient statements	\checkmark	
Collections management	\square	
Bad debt collections	\checkmark	
A/R analytics	\checkmark	
Claims analytics	\checkmark	
Collections analytics		Analytics
Coding analytics	\checkmark	
Patient volume analytics	\checkmark	

Referral management	L	
Patient portal / mobile app	\square	
Patient identify and address verification	\checkmark	
Pricing transparency (shoppable services + MRFs)	Ŀ	Patient
Patient OOP payment estimation	\checkmark	Access
Patient financial clearance	\square	
POS payment capture	\checkmark	
Charity care evaluation	\checkmark	
Clinical documentation integrity (CDI)	\checkmark	
Clinical documentation - transcription/NLP	L	Mid
Utilization Review	\square	Cycle
Denials management	\square	
Underpayment recovery	\checkmark	
Consolidated patient statements	\odot	
Remittance management	\square	
Complex claims	L	Back
Encounters clearinghouse	L	Office
Contract management	L	
Third-party liability	\checkmark	
Medicare bad debt	\checkmark	
Call center automation/IVR	\checkmark	
Contract analytics	\checkmark	
Denials analytics	\checkmark	Analytics
Patient access analytics	\checkmark	

12% of respondents fall into Stage 4

You are at Stage 4

Patient self- scheduling	L	
Prior authorization/certification	L	
Patient appointment reminders	\checkmark	
Pre-visit Propensity to pay	L	Patient Access
Pre-visit payment plan enrollment	L	
Self-service patient payments (pre-visit)	\checkmark	
Registration quality management	L	
Physician CDI/Coder querying technology	\odot	Mid
Predictive CDI Worklist prioritization	L	Cycle
Predictive denials warnings	\checkmark	
Post-visit insurance discovery	\checkmark	
Disproportionate share reporting	\checkmark	
Transfer DRG	\checkmark	Back Office
Post-visit payment plan enrollment	L	
Self-service patient payment (post-visit)	\checkmark	
Automated remittance matching	\checkmark	
Data extraction capabilities	\checkmark	
Drill-down to transaction level capabilities	\square	
Contract modelling	L	Analytics
Physician practice operations analytics	\square	
Uncompensated care analytics	\checkmark	

4% of Respondents fall into Stage 5

Pre-visit insurance discovery	L	
Prior authorization automation	L	
Automated determination	Ŀ	
• Automated data extraction and submission	L	Patient
Prior authorization status monitoring		ALLESS
Virtual front desk	$\overline{\otimes}$	
Self-triage / care navigation	$\overline{\otimes}$	
Clinical documentation - ambient clinical		
Computer assisted physician documentation		
(CAPD)	Ŀ	
Computer assisted coding	\checkmark	
ML-based ICD & CPT coding	L	Mid
• ML-based DRG assignment	L	Cycle
Case management	\otimes	
SDOH risk analytics	(\times)	
SDOH referral management	$\check{\otimes}$	
Automated appeals workflows	\otimes	Back Office
End-to-End RCM analytics	\square	
Real-time, near real-time refresh capabilities	\checkmark	
Patient matching / deduplication capabilities		Analytics
Intelligent denials and underpayment root cause analysis	\otimes	

Key:

High Value

L Limited Use

Implementing in next 12 months

 (\times) Do not have



Financial Benchmarking

Your Results: RCM Technology Adoption Model Report

Overall Results

Your financial performance trails RCMTAM Stage 4/5 health systems in several key areas.

Financial KPI	Performance Difference Between your KPIs and Stage 5 Performance			
	Reported	Normalized	Stage 4/5 Average	Diff.
POS Collections (% NPR)	0.6% - 1.0%	0.8%	1.80%	125% improvement
Clean Claims Rate (%)	91% - 95%	93%	84.67%	\checkmark
A/R Days (# Days)	51 - 55	53	43	19% reduction
% A/R days > 90	26%-30%	28.00%	9.67%	65% reduction
Denials (% NPR)	5%	5%	1.47%	100% reduction
Cost to Collect (%)	2.1%-2.5%	2.30%	1.47%	36% reduction
Days Cash on Hand (# Days)	151-200	175	108.33	\checkmark
Bad Debt (% NPR)	1.6% - 2.0%	1.80%	1.80%	\checkmark

Example Only



Example Only



Modernization Roadmap

Your Results: RCM Technology Adoption Model Report





Summary

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What It All Means

Healthcare financial leaders need to embrace disruption

- Pre-pandemic visit volumes show no signs of returning
- Negative margins will continue to erode cash on hand
- Health system financial leaders will need to establish a bold vision

New market entrants are competing for patient loyalty with better digital experiences

- Visit volumes are shifting to the outpatient market at an increasing rate
- New entrants are competing for patient loyalty
- Improved outcomes through sticky between visit engagement tactics

Self-service patient tools are seen as a win-win; poised for rapid adoption

- Innovative leaders are looking at virtual intake solutions, patient payment solutions, and other capabilities
- Empower patients with digital self-service tools that reduce administrative burden for RCM staff, while boosting satisfaction

RCM Platforms are the quickest paths to restoring profitability

- Technology-enabled optimization increases revenue and reduces costs
- Adoption of RCM technology, designed to automate resolution in prior authorizations, denials and underpayments
- RCM Platform players are enabling this transformation through vendor consolidation, intelligent automation, and centralized end-to-end data analytics environments

The RCMTAM introduces a peer-reviewed, datadriven approach to rapid modernization

- Complacency is no longer an option health system financial leaders need to move forward with modernization efforts
- RCMTAM provides a clear path forward in a market that lacks best practice research guiding broad-based digital transformation efforts



Questions?

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Thank

you!

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