

RESEARCH ARTICLE

Intelligent Automation for Streamlining Prior Authorization Workflows Integrated with EHRs Using Agentic AI

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ABSTRACT

Prior Authorization (PA) processes represent a significant administrative burden in healthcare systems worldwide, contributing to treatment delays, clinician dissatisfaction, and increased operational costs. While traditional automation approaches have addressed discrete components of the PA workflow, they lack the adaptability and autonomy necessary for comprehensive optimization. This article introduces a framework for implementing Agentic Artificial Intelligence (AI) to transform PA workflows through seamless Electronic Health Record (EHR) integration. The evolution of authorization automation is traced through three distinct technological generations, demonstrating the progressive advancement from basic rule-based systems to sophisticated goal-oriented agents capable of autonomous decision-making. A multi-layered architectural framework is presented, detailing the specialized components that enable these systems to extract clinical data, navigate payer requirements, assemble documentation, and manage submissions with minimal human intervention. Implementation strategies are outlined, emphasizing the importance of preparatory assessment, phased deployment, and critical success factors, including vendor collaboration, stakeholder engagement, and data quality initiatives. The benefits of Agentic AI implementation are substantial, including dramatic reductions in processing time, decreased operational costs, improved approval rates, and enhanced patient experience. Despite challenges in technical integration, data standardization, regulatory compliance, and change management, healthcare organizations can achieve transformative improvements through thoughtful mitigation strategies. As interoperability standards evolve and implementation methodologies mature, Agentic AI promises to fundamentally reimagine prior authorization workflows, liberating clinical teams from administrative burdens while improving patient care outcomes.

KEYWORDS

Agentic AI, Prior Authorization, Healthcare Administration, Intelligent Automation, Electronic Health Records, Workflow Optimization

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1. Introduction: The Prior Authorization Conundrum

Prior Authorization (PA) processes represent a significant administrative burden in healthcare delivery systems. Recent industry analysis reveals that healthcare organizations spend approximately 13.3 hours per physician per week managing PA requirements, with administrative costs averaging \$14.24 per request according to Nividous research. The financial impact becomes substantial when considering that a typical mid-sized healthcare provider processes over 30,000 PA requests annually, resulting in administrative expenditures exceeding \$427,200 for PA management alone [1]. Patient care impacts are equally concerning, with Nividous reporting that 92% of physicians experience care delays related to PA processes, and 78% of patients experience at least one medication abandonment annually due to PA complications. Hospitals allocate substantial financial resources and dedicated personnel to handle prior authorization administrative requirements, according to industry association estimates [1].

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Traditional automation approaches have attempted to address these challenges with limited success. According to Gleecus' research, conventional Robotic Process Automation (RPA) implementations for PA management require significant maintenance, with healthcare organizations reporting an average of 7.2 bot modifications monthly to accommodate changing payer requirements. Integration challenges persist, with only 31% of healthcare providers achieving fully integrated RPA systems across their electronic health record (EHR) platforms. Furthermore, Gleecus analysis indicates that traditional automation systems handle only 62% of exception cases autonomously, requiring manual intervention for the remaining 38% of non-standard PA requests [2]. Healthcare IT departments report allocating approximately 26% of technical resources to maintaining automation scripts, diverting valuable personnel from innovation initiatives.

The emergence of Agentic AI offers a paradigm shift in PA management through autonomous, goal-oriented systems. Unlike conventional automation, Agentic AI operates with defined objectives rather than predetermined task sequences. Gleecus implementation data across 17 healthcare organizations demonstrates that Agentic AI deployments reduce PA processing times by 73.8% on average while improving first-pass approval rates by 32.9%. These systems demonstrate remarkable adaptability, with 94% of payer requirement changes accommodated without manual reprogramming. Integration capabilities are similarly advanced, with Agentic systems achieving 87% data synchronization across disparate healthcare platforms, including diverse EHR systems, practice management software, and payer portals [2]. The financial implications are substantial, with Gleecus reporting average annual savings of \$347,000 for mid-sized healthcare organizations implementing Agentic AI for PA management. Most significantly, these implementations demonstrate continual performance improvement through reinforcement learning, with an average 4.7% quarterly enhancement in processing efficiency without additional programming [2].

2. The Evolution of Prior Authorization Automation: From RPA to Agentic Systems

Prior authorization automation has evolved through distinct technological generations, each marking significant advancements in capability and intelligence. This evolutionary progression provides critical context for understanding the transformative potential of current Agentic AI implementations in healthcare administrative workflows.

2.1 Early Automation (2000-2010)

The initial automation phase employed basic rule-based systems focused on form digitization and elementary task sequencing. According to Data Management research, these early implementations achieved modest efficiency improvements, reducing manual processing time by approximately 22% while delivering average cost savings of just \$3.75 per authorization request [3]. Despite these advancements, the technical limitations remained substantial, with healthcare providers continuing to allocate significant resources to authorization management. The Data Management analysis documents that organizations during this period maintained an average of 2.4 full-time employees per 100 physicians solely for authorization processing, with only 24% of submissions occurring through electronic channels [3]. System integration posed significant challenges, with authorization staff navigating an average of 4.6 separate software interfaces to complete standard authorization requests.

2.2 RPA and Machine Learning Integration (2010-2020)

The second automation wave introduced Robotic Process Automation with significantly enhanced capabilities. Blueprint's industry analysis reveals that RPA implementations during this period achieved an average 56% reduction in authorization processing time, with standard cases completed in 18.3 minutes compared to 41.5 minutes through manual processes [4]. These systems demonstrated improved adaptability, though they still require substantial maintenance. Blueprint research indicates that healthcare organizations implementing RPA for authorization management typically allocated 12.7 hours weekly to bot maintenance and reconfiguration to accommodate changing payer requirements [4]. The integration of machine learning algorithms beginning around 2017 enhanced these systems by enabling approval prediction with approximately 71% accuracy and reducing documentation deficiencies by 38%. Despite these advancements, Blueprint data shows that second-generation automation continued to struggle with exception management, requiring manual intervention for approximately 42% of non-standard cases and demonstrating limited self-improvement capacity without explicit reprogramming [4].

2.3 The Agentic Paradigm (2020-Present)

Agentic AI represents a fundamental paradigm shift from task-based to goal-oriented automation. According to Nasscom Community's comprehensive market analysis, Agentic systems demonstrate remarkable operational improvements, reducing authorization processing times by 76% compared to manual methods while handling 87% of exception cases without human intervention [5]. The self-directed workflow navigation capabilities enable these systems to optimize processing pathways autonomously, resulting in first-pass approval rates improving by 31% according to multi-site implementation data. The adaptability to environmental changes represents perhaps the most significant advancement, with Nasscom research documenting that Agentic systems can recognize and adjust to modifications in payer requirements within an average of 6.4

hours compared to 5.7 days for traditional RPA implementations [5]. The continuous learning capabilities drive ongoing performance enhancement, with documented efficiency improvements averaging 3.2% quarterly without additional programming. Multi-system orchestration capabilities provide seamless operation across disparate healthcare platforms, with Nasscom reporting that integration time requirements have decreased by 68% compared to previous automation generations [5]. The market implications are substantial, with 37% of healthcare organizations actively implementing or transitioning to Agentic approaches for authorization management, driven by average annual savings of \$342,000 for mid-sized organizations while simultaneously reducing authorization-related care delays by 62%.

Performance Metric	Early Automation (2000-2010)	RPA Systems (2010-2020)	Agentic Al (2020-Present)
Processing Time Reduction vs. Manual (%)	22	56	76
Exception Cases Handled Without Human Intervention (%)	13	58	87
Adaptation Time to Payer Requirement Changes	14.2 days	5.7 days	6.4 hours
First-Pass Approval Rate Improvement (%)	8	19	31
Weekly Maintenance Hours Required	7.3	12.7	3.8

Table 1: Key operational performance indicators across three generations of authorization automation technologies based on industry analyses [3,4,5]

3. Agentic Al Architecture for Prior Authorization Management

The implementation of Agentic AI for prior authorization requires a purpose-built architecture that fundamentally differs from traditional automation approaches. Analysis of agentic systems demonstrates that effective healthcare implementations utilize a multi-layered architectural framework comprised of five core components working in concert to create truly autonomous authorization management [6]. The perception layer serves as the system's sensory mechanism, utilizing advanced natural language processing to extract relevant clinical data with 92.4% accuracy compared to 67.8% for traditional methods. This component processes an average of 217 data points per authorization case, synthesizing information from structured and unstructured sources alike. The planning component represents a significant advancement over scripted automation, with research showing that agentic systems evaluate an average of 73 potential process pathways before selecting optimal authorization strategies based on specific case characteristics and historical performance data [6].

The action layer executes selected workflows across multiple systems while continuously monitoring for environmental changes. Implementation data demonstrates this layer's remarkable adaptability, with systems successfully navigating an average of 94.3% of payer portal variations without manual intervention. The memory component provides both episodic and semantic storage capabilities, maintaining approximately 14.2 million relationship mappings in typical healthcare implementations while continuously refining these associations through reinforcement learning [6]. Perhaps most critically, the meta-cognitive layer enables systems to evaluate their performance, with research data showing that self-optimization occurs every 6.4 authorization cycles on average. The comprehensive research analysis demonstrates that this architectural approach achieves a 96.7% task completion rate across all authorization types compared to 74.2% for conventional RPA implementations.

The practical implementation requires careful consideration of integration methodologies and technology selection. Research identifies four primary integration patterns used in successful healthcare deployments, with API-based integration delivering optimal performance across 82% of studied implementations [7]. Modern healthcare systems maintain an average of 17.3 distinct systems requiring integration, necessitating robust orchestration capabilities. The technology selection process involves evaluating numerous components. Research data indicates that successful implementations allocate approximately 34% of resources to integration development, 28% to autonomous agent capabilities, 22% to continuous learning systems, and 16% to human oversight mechanisms [7]. The deployment timeline averages 4.3 months for mid-sized healthcare organizations, with ROI achievement typically occurring within 5.8 months of full implementation. The staffing impact proves particularly significant, with authorization-related staffing requirements decreasing by 63% on average while simultaneously improving authorization

Architectural Component	Data Processing Capability	Accuracy Rate (%)	Performance Improvement vs. RPA (%)	Integration Success Rate (%)
Perception Layer	217 data points per case	92.4	36.3	88.7
Planning Component	73 pathways evaluated per case	89.6	58.2	91.3
Action Layer	18.4 systems navigated per case	94.3	41.7	93.8
Memory Component	14.2 million relationship mappings	97.1	52.8	85.9
Meta-cognitive Layer	Self-optimization every 6.4 cycles	96.7	63.4	89.2

approval rates by 27.8% according to comprehensive implementation data across 47 healthcare organizations [7].

Table 2: Performance metrics for individual components within the Agentic AI architecture for prior authorization management [5,6,7]

4. Implementation Strategy and Operational Considerations

Successful implementation of Agentic AI for prior authorization requires a methodical approach addressing technical, operational, and organizational considerations. According to Kanerica's analysis of healthcare AI implementations, organizations pursuing agentic authorization solutions begin with a preparatory assessment, typically allocating 5.2 weeks to this critical phase with 41% of total pre-deployment resources [8]. The workflow mapping process identifies an average of 43 discrete process steps and 12.3 manual touchpoints in traditional authorization workflows. Data readiness evaluation reveals that healthcare organizations initially find only 37% of clinical data appropriately structured for AI utilization, with natural language processing capabilities particularly important for handling the 63% of unstructured data. Integration capability assessments document significant EHR interoperability challenges, with approximately 54% of EHR functionality accessible through standard APIs according to Kanerica's implementation benchmarks across 47 healthcare organizations [8]. The regulatory compliance assessment identifies an average of 18.7 distinct requirements, with successful implementations investing 76 person-hours in compliance planning. Organizations developing comprehensive ROI projections experience 2.1x greater financial returns than those using generalized estimates, with successful deployments documenting average annual savings of \$316,500 per 100,000 authorization requests.

The implementation pathway follows a phased approach, optimizing operational continuity. The initial augmented workflow phase spans approximately 1.8 months, during which organizations establish performance benchmarks across 14.3 key metrics while deploying initial extraction agents that reduce manual documentation effort by 38.2% [8]. The supervised automation phase extends approximately 3.9 months, with Kanerica data showing that successful implementations initially target the 31% of authorization requests representing standardized, high-volume cases. This phase achieves a 52.7% reduction in overall processing time while maintaining human verification for approximately 37.4% of decision points. The progressive autonomy phase extends 6.3 months on average, with authorization processing reaching 82.3% automation while human intervention requirements decrease to approximately 17.7% of cases. The full deployment phase achieves comprehensive coverage across 91.6% of authorization types and 93.8% of payers according to Kanerica's longitudinal implementation analysis [8].

Critical success factors significantly impact implementation outcomes, with Zycus research providing detailed impact analysis. Vendor collaboration emerges as particularly important, with early partnership formation occurring approximately 2.8 months before technical implementation in successful deployments [9]. Organizations establishing formalized partnership agreements achieve API efficiency rates of 78.3% compared to 56.7% for organizations pursuing independent integration approaches. The stakeholder engagement factor demonstrates substantial impact on adoption rates, with implementations involving clinical representatives in requirements gathering achieving 68.4% higher user satisfaction scores and 29.8% faster system adoption. Data quality initiatives represent another critical factor, with organizations implementing standardized documentation protocols reducing exception processing requirements by 38.6% on average [9]. Ethical framework development has gained increasing prominence, with 73.2% of surveyed organizations establishing formal review protocols for automated decision-making. The

continuous learning infrastructure component delivers significant long-term impact, with organizations implementing comprehensive performance tracking experiencing 2.7% quarterly efficiency improvements compared to 0.8% for those without structured improvement mechanisms, according to Zycus's performance analysis across 126 enterprise AI implementations [9].



Figure 1: Impact of key success factors on implementation outcomes for Agentic AI prior authorization systems[9]

5. Benefits, Challenges, and Mitigation Strategies

The implementation of Agentic Al for prior authorization offers substantial benefits while presenting significant challenges requiring thoughtful mitigation strategies. According to NewGenApps research, intelligent process automation in healthcare administrative workflows delivers up to 80% reduction in processing time while decreasing operational costs by 25-40% across implementation sites [10]. Organizations report automation handling up to 80% of repetitive authorization tasks, enabling constant 24/7 operational capacity without human fatigue factors. The resulting quality improvements manifest through error rate reductions of 20-30%, significantly improving authorization outcomes while simultaneously enhancing regulatory compliance through standardized processing approaches [10]. These automated systems demonstrate remarkable consistency, with NewGenApps documentation indicating performance remains stable regardless of transaction volume, a critical capability for healthcare organizations managing unpredictable authorization fluctuations.

The financial impacts extend beyond direct process improvements, with automation reducing manual intervention requirements by up to a 25-40% full-time equivalent per implemented workflow. The customer experience enhancements translate to measurable satisfaction increases, with organizations implementing intelligent authorization processes reporting up to 85% improvement in patient experience metrics according to NewGenApps analysis [10]. The solution's scalability represents a particularly valuable advantage, allowing healthcare organizations to handle authorization volume increases without proportional staffing expansion, while simultaneously reducing service delivery timeframes by 20-30% across authorization management processes. The technology enables significant competitive advantages through these operational improvements, with organizations achieving up to 40% cost reductions while simultaneously improving service quality metrics [10].

Despite these benefits, implementation challenges require structured mitigation approaches. SigmaSolve identifies data quality as a primary concern, with inconsistent information across healthcare systems complicating automation effectiveness [11]. Successful implementations address these issues through comprehensive data harmonization protocols before automation deployment. The regulatory compliance requirements present substantial implementation barriers, particularly in healthcare settings where protected health information requires rigorous security controls. Process standardization represents another critical success factor, with SigmaSolve research indicating significantly higher implementation success rates when organizations standardize workflows before applying automation technologies [11]. The change management aspects prove equally important, with proper training and stakeholder engagement directly correlating to adoption success rates and overall implementation effectiveness.

Security considerations remain paramount in healthcare automation implementations, with organizations implementing comprehensive safeguards to maintain data protection throughout automated authorization workflows. SigmaSolve documentation emphasizes the importance of phased implementation approaches rather than attempting comprehensive transformation simultaneously, allowing for progressive capability development while managing organizational change [11]. The technical integration aspects require careful planning, particularly when connecting authorization automation with existing electronic health record systems. The most successful implementations incorporate robust exception handling mechanisms for addressing unusual or complex authorization scenarios requiring human intervention, ensuring authorization processes continue functioning effectively even when encountering non-standard requests [11].



Figure 2: Key performance improvements achieved through intelligent process automation in healthcare prior authorization workflows, based on NewGenApps research [10].

6. The Future of Prior Authorization in an Agentic Ecosystem

The integration of Agentic AI with EHR systems represents a transformative approach to managing prior authorization workflows in healthcare. According to Infinx research, healthcare organizations implementing AI-driven prior authorization management achieve an average 80% reduction in administrative workload while experiencing first-pass approval rates improving from 60% to over 90% through enhanced submission quality and accuracy [12]. This revolutionary shift from task-specific automation to goal-oriented, autonomous agents enables healthcare organizations to address the fundamental inefficiencies that have made prior authorization processes burdensome, with medical practices spending approximately 16 hours per physician per week on authorization management, according to comprehensive industry analysis.

The roadmap for implementing agentic technology spans assessment through optimization, with Infinx data demonstrating implementation timelines averaging 8-12 weeks for initial deployment, with ROI typically achieved within the first 6 months. Modern authorization agent architectures combine specialized components for case identification, data extraction, clinical rules application, payer requirement mapping, and real-time status monitoring, creating comprehensive solutions that manage the entire authorization lifecycle [12]. These solutions maintain 99% accuracy in data extraction from clinical systems while seamlessly integrating with multiple payer portals to achieve authorization determinations up to 5- 7x7x faster than manual processing.

As healthcare organizations face growing administrative burdens with prior authorization volumes increasing by approximately 20% annually, Agentic AI offers a promising approach to sustainable management. MedCity News analysis indicates that healthcare institutions implementing agentic solutions for authorization management reduce staffing requirements by approximately 60% while simultaneously improving payer approval rates by 25-30% through more complete and accurate submissions [13]. The technology evolution continues at a rapid pace, with implementation models shifting from basic

automation toward truly autonomous systems capable of managing 80-85% of authorization cases without human intervention across all major payer types and service categories.

Looking forward, several developments will accelerate the adoption and effectiveness of these systems. MedCity News research documents rapidly evolving interoperability standards with FHIR adoption projected to reach 80% of healthcare organizations by 2027, significantly reducing integration barriers [13]. Payer collaboration continues expanding, with progressive insurance organizations recognizing that administrative efficiency benefits all stakeholders. Natural language processing capabilities for clinical documentation analysis now achieve 92% accuracy for authorization-relevant data extraction, enabling systems to process diverse documentation types with minimal human oversight. The governance frameworks around autonomous authorization systems continue maturing, with thoughtful human oversight focusing on exceptional cases while standard approvals proceed automatically [13].

While challenges remain in data quality, integration complexity, and appropriate governance, the trajectory toward autonomous authorization management continues accelerating. The prior authorization process, consuming approximately 1,000 hours of provider and staff time per physician annually, increasingly benefits from agentic approaches that transform healthcare administration through intelligent, adaptive systems focused on both administrative efficiency and optimal patient care outcomes.

7. Conclusion

The integration of Agentic AI with EHR systems represents a transformative approach to managing prior authorization workflows in healthcare. This article has traced the evolution of authorization automation from early rule-based systems through RPA integration to the current paradigm of goal-oriented autonomous agents. The presented architectural framework provides a comprehensive blueprint for organizations seeking to implement these technologies, detailing the specialized components that enable effective clinical data extraction, process navigation, documentation assembly, and submission management. The implementation strategies outlined emphasize the importance of thorough preparation, phased deployment, and attention to critical success factors that determine project outcomes. The quantifiable benefits of Agentic AI for prior authorization management extend across operational efficiency, financial performance, clinical advantages, and organizational capabilities. While acknowledging the challenges in technical integration, data guality, regulatory compliance, and change management, the article has presented proven mitigation strategies that minimize implementation risks. The future of prior authorization lies in the continued advancement of these intelligent, adaptive systems that fundamentally reimagine administrative workflows. As interoperability standards mature and implementation methodologies become increasingly standardized, healthcare organizations have unprecedented opportunities to transform authorization management from an administrative burden into a streamlined, efficient process. The technology has progressed beyond theoretical applications to practical implementations, delivering measurable benefits across healthcare settings. This transition toward autonomous, intelligent authorization management represents not merely an incremental improvement but a paradigm shift in healthcare administration—liberating clinical teams from routine administrative tasks while simultaneously improving authorization outcomes, reducing care delays, and enhancing patient experiences. The prior authorization process, long emblematic of healthcare administrative inefficiency, is being transformed through Agentic AI into a showcase for intelligent automation that supports rather than impedes the essential work of patient care.

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