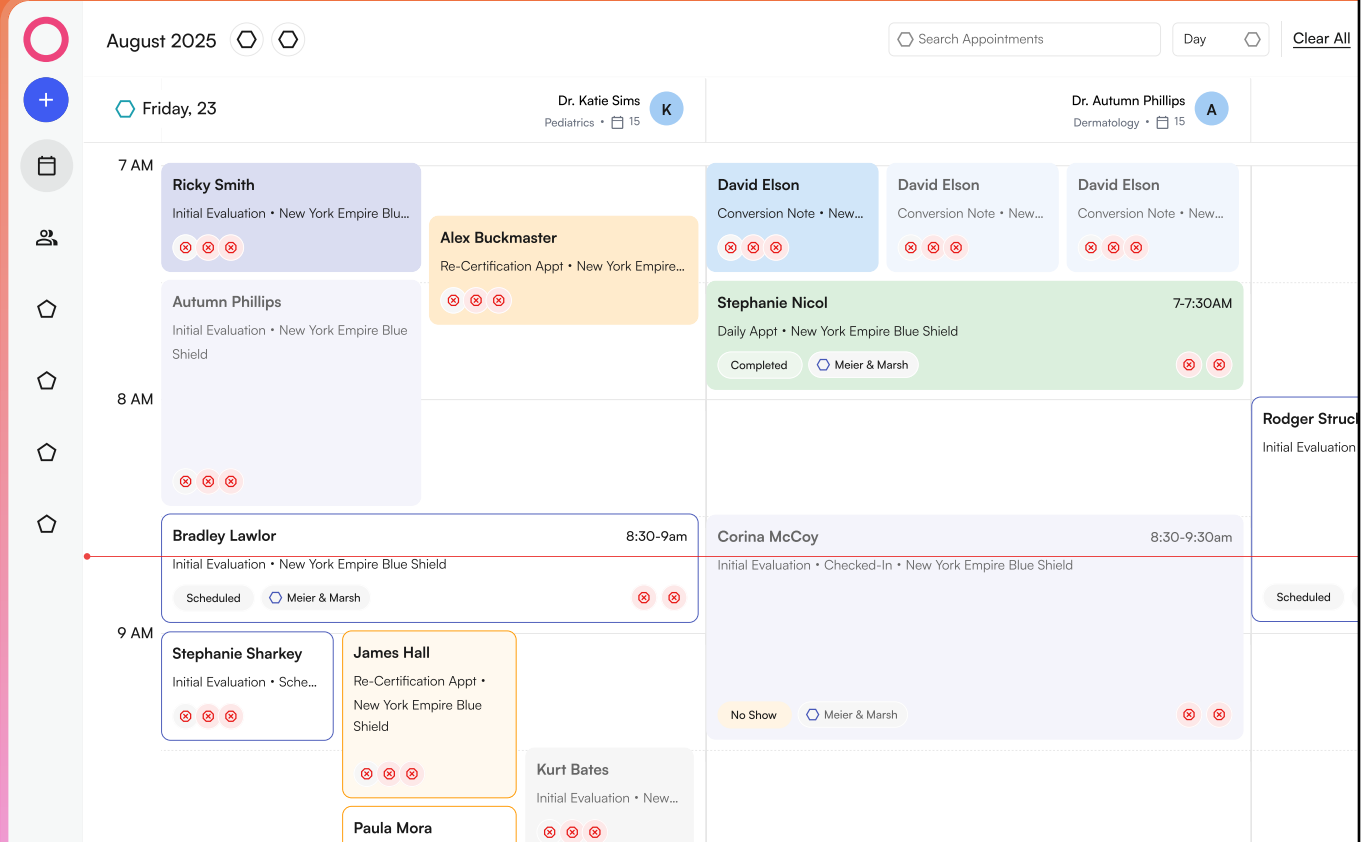




EHR INNOVATION PLAYBOOK:

Strategic Upgrades for Specialty Practices in 2025

Part I

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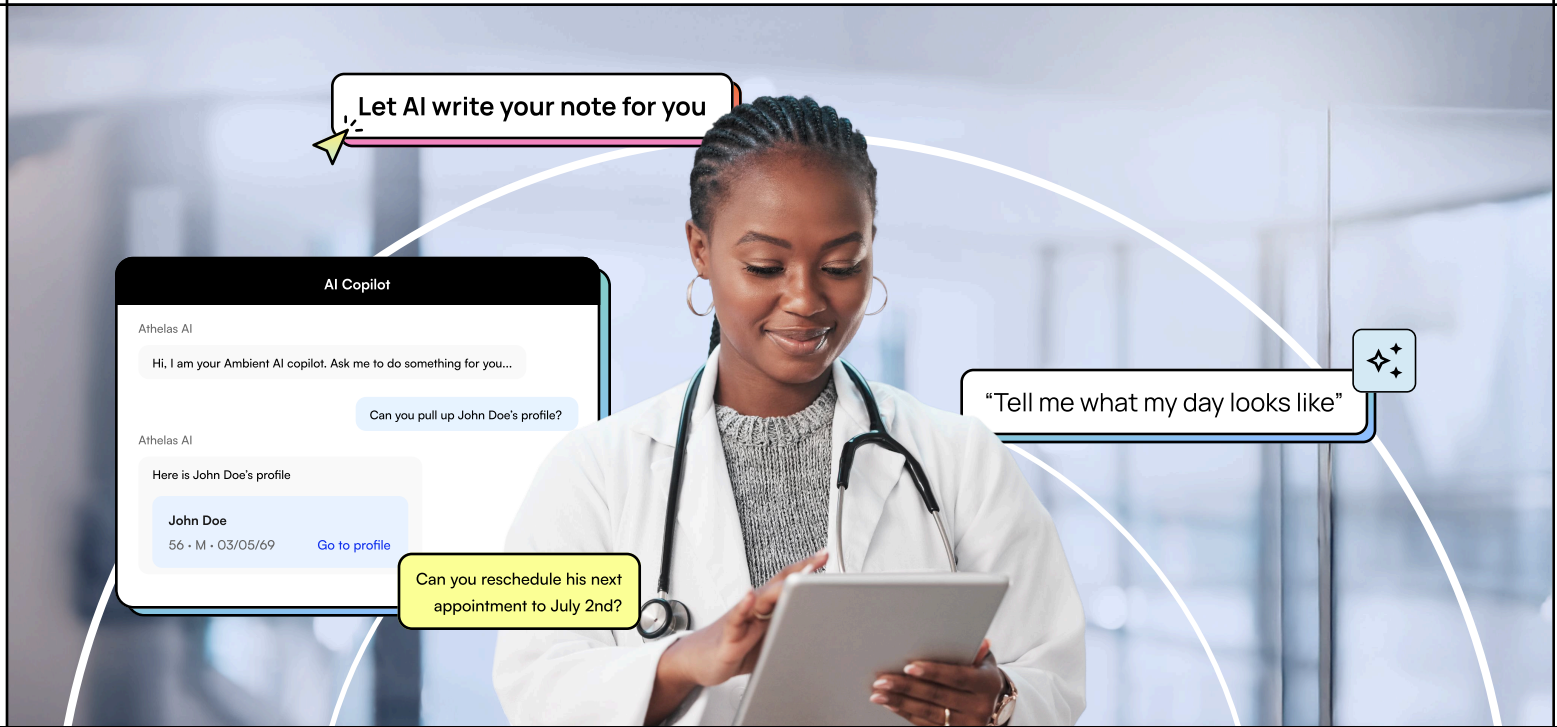
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Introduction

Navigating Uncertainty

Specialty practices are hitting a major turning point in 2025. Fast-moving technology, growing patient expectations, and tougher regulations are making it feel impossible to keep up. Many practices are stuck with clunky systems that slow everything down, from patient care to billing. Over-documentation is burning clinicians out, while dated workflows and disconnected tools are causing delays, errors, and missed revenue. It's a lot. But the good news is, with the right, specialty-focused solutions, there's a real opportunity to fix these pain points and build a practice that's more efficient, profitable, and ready for what's next.

EHR Modernization

Modernizing your EHR is practically mandatory. The right system can give your practice a serious edge by making day-to-day workflows smoother and giving patients better ways to connect, like via user-friendly portals and telehealth. Regulations are moving fast, especially around things like interoperability and value-based care, and old systems just can't keep up. Plus today's patients expect easy access to their health info—and they'll go elsewhere if they don't get it. Practices that invest in smarter, more flexible EHRs not only avoid penalties but also improve efficiency, stay compliant, and set themselves up for long-term success.

Your Roadmap to EHR Success

The EHR Innovation Playbook gives specialty practices a clear, practical way to move forward. It's packed with real-world examples and case studies that show how others are tackling big issues like burnout and lost revenue. You'll find step-by-step strategies to assess and upgrade your EHR—whether you're in cardiology, physical therapy, or another specialty—along with tips to streamline workflows and improve care. It also breaks down key trends, like AI tools and new interoperability standards, so you're on top of it all. Backed by Athelas's healthcare tech expertise, this guide helps you cut down on admin work, strengthen your bottom line, and deliver better care.

Rocky EHR Terrain in 2025

Key EHR Trends for

2025



AI/Automation



Interoperability



Cloud-Based
EHRs



Patient-Centric
Features



Workflow
Optimization



Security/
Compliance

Legacy System Pain Points

Mid-market specialty practices face significant hurdles with electronic health record (EHR) systems. Many rely on legacy EHR systems that are old, slow, and ill-suited for specialties. Cobbled-together integrations create data silos and interoperability gaps, and interfaces that aren't intuitive are to blame for clinician overwork, with providers spending nearly half their time on administrative tasks. These challenges hinder efficiency, profitability, and patient care, making EHR modernization essential for staying competitive in 2025.

Key Trends Reshaping EHRs in 2025

The EHR landscape is evolving rapidly, driven by technology and expectations from providers, patients, and regulators. Key trends include:

- **AI and Automation:** Ambient documentation and natural language processing (NLP) significantly reduce documentation time, while automated coding minimizes billing errors, boosting revenue cycle management.
- **Interoperability:** FHIR and API-first design enable seamless data exchange, ensuring compliance and better care coordination.
- **Cloud-Based EHRs:** SaaS architectures offer scalability, lower IT costs, and continuous updates, ideal for mid-market practices.
- **Workflow Optimization:** Clinical decision support and automation make EHRs active “co-pilots,” streamlining tasks like prior authorizations.

- **Patient-Centric Features:** Integration with remote patient monitoring (RPM) and wearables enhances patient engagement and supports value-based care.
- **Security and Compliance:** Zero-trust security and HIPAA compliance build trust and protect data, critical for specialty practices.

Implications for Mid-Market Practices

Unlike enterprises, mid-market practices need cost-effective EHR solutions tailored to specialties. Cloud EHRs offer scalability without complexity, while AI and interoperability address burnout and revenue leakage.

Why It's Important

Understanding these trends empowers specialty practices to modernize EHRs and thrive in 2025. This playbook, backed by Athelas's expertise in innovative healthcare technology, provides actionable strategies to drive success.

Assessing Your EHR

Common Pain Points in Specialty Practice EHRs

Persistent challenges with electronic health record (EHR) systems hinder efficiency and care quality. Recognizing these pain points is the first step toward bringing your EHR up to speed:



Clinician Time Debt

Excessive charting and repetitive clicks can consume a median of 36.2 minutes per visit of providers' time, fueling clinician exhaustion and reducing patient interaction¹.



Poor Documentation Accuracy

Inaccurate or incomplete records lead to missed charge capture, undermining financial stability.



System Silos

Disconnected modules and poor healthcare interoperability with external partners create data flow bottlenecks, complicating care coordination.



Inflexible Templates and Workflows

Generic EHR templates force workarounds, misaligned with specialties like cardiology or orthopedics, slowing down operations.



Upgrades and Vendor Lock-In Fears

Concerns about costly upgrades or being trapped with a single vendor deter practices from pursuing EHR optimization.

These issues erode productivity, profitability, and patient satisfaction, making it critical to assess and address them strategically.

Benchmarking EHR Maturity: Where Does Your Practice Stand?

To modernize effectively, practices must evaluate their EHR maturity. This involves mapping your current system to one of four stages:

- **Legacy EHR:** Outdated systems with rigid architectures, high maintenance, and limited interoperability.
- **Partial Upgrades:** Systems with some modern features but inconsistent integration or usability.
- **Modular Add-Ons:** Practices using third-party tools to patch gaps, often leading to complexity and data silos.
- **Modern AI-Enabled EHR:** Cloud-based, AI-driven systems with seamless workflow automation, interoperability, and patient engagement features.

Understanding your starting point helps prioritize upgrades and align technology with your practice's goals, ensuring specialty practice efficiency.

Gap Analysis Checklist



Documentation



Interoperability



Coding/Billing



Analytics



Patient Interaction



Security & Compliance

Gap Analysis: Targeting Key Functional Domains

A structured gap analysis is essential to identify areas for improvement. Focus on these core domains:

- **Documentation:** Streamline charting with ambient documentation and AI tools.
- **Interoperability:** Ensure FHIR integration for seamless data exchange.
- **Coding and Billing:** Improve accuracy with automated coding to reduce revenue cycle management errors.
- **Analytics:** Leverage data for insights into performance and patient outcomes.
- **Patient Interaction:** Enhance engagement with portals and remote patient monitoring (RPM) integration.

The goal is to pinpoint gaps to help prioritize EHR solutions for measurable impact.

Why It's Important

By addressing pain points, benchmarking maturity, and conducting a gap analysis, practices can chart a clear path forward.

Strategic EHR Capabilities That Move the Needle

Transforming Specialty Practices with Strategic EHR Capabilities

In 2025, electronic health record (EHR) systems have to go beyond documentation for efficiency, compliance, and patient outcomes. The following EHR capabilities address critical pain points and deliver measurable impact.



Ambient Documentation and Voice/NLP Integration

Ambient documentation, powered by natural language processing (NLP), transcribes and structures clinical notes in real time, resulting in ~ 20.4% less time in notes per appointment². Voice-enabled EHRs allow providers to focus on patients.



Real-Time Coding Suggestions, Auto-Scrubbing, and Claim Pre-Validation

AI-driven automated coding suggests accurate CPT and ICD-10 codes during encounters, while auto-scrubbing and claim pre-validation reduce denials. These tools refine revenue cycle management, ensuring faster reimbursements and minimizing leakage.



Modular API Ecosystem for Specialty Tools

A modular API ecosystem integrates best-of-breed tools tailored to specialties, such as imaging for orthopedics or infusion tracking for oncology. This flexibility enhances EHR customization, allowing practices to adopt cutting-edge solutions without overhauling systems.



Cross-System Data Flow

Seamless healthcare interoperability via FHIR standards connects labs, imaging, pharmacies, and payers, eliminating data silos. Real-time data exchange improves care coordination and compliance, critical for specialties managing complex patient journeys.



Security and Audit Tools

Built-in healthcare cybersecurity features, like zero-trust architecture and audit trails, ensure HIPAA compliance and protect patient data, fostering trust and avoiding costly breaches.



Analytics and Decision Support

Advanced EHR analytics and clinical decision support (CDS) provide trend detection, real-time alerts, and population health insights. For example, predictive analytics can identify at-risk patients, supporting value-based care and lowering readmissions.



Patient Engagement

Layer robust patient engagement solutions, including portals, mobile workflows, and remote patient monitoring (RPM) integration, and empower patients with access to records and care plans. This boosts satisfaction and adherence, increasing retention.

Upside Scenarios

These capabilities translate to tangible outcomes: reduced documentation time can save hours daily per provider, cleaner claims can up revenue, and enhanced patient engagement absolutely improves loyalty. By adopting these EHR solutions, practices become a well-oiled machine of financial resilience.

These capabilities translate to tangible outcomes: reduced documentation time can save hours daily per provider, cleaner claims can up revenue, and enhanced patient engagement absolutely improves loyalty. By adopting these EHR solutions, practices become a well-oiled machine of financial resilience.

With the right approach, EHRs can be more than just record-keeping tools—they can support efficiency, compliance, and better care. The Athelas team hopes this playbook empowers your practice to simplify operations, improve financial performance, and stay competitive.

Stay tuned for part II of this eBook series, **EHR Innovation Playbook: Strategic Upgrades for Specialty Practices in 2025, Part II**, coming soon. We'll cover EHR vendor evaluation and share a selection framework, along with change management best practices.

Ready to get strategic with your EHR?
Get in touch with us today.



Save Hours Daily

Ambient documentation and NLP reduce time spent charting—giving providers more time with patients.



Boost Revenue

Cleaner claims and automated coding minimize denials and accelerate reimbursements.



Increase Patient Loyalty

Patient portals and RPM tools improve satisfaction and retention through better engagement.



Stay Secure & Compliant

Built-in zero-trust security and audit trails reduce risk and ensure regulatory compliance.



Unlock Data-Driven Insights

Real-time analytics and CDS identify trends, support decisions, and improve care outcomes.



Streamline Care Coordination

FHIR-based interoperability connects systems across labs, payers, and partners seamlessly.

Sources

1. JAMA. (2023). *System-Level Factors and Time Spent on Electronic Health Records by Primary Care Physicians*. <https://jamanetwork.com/journals/jamanetworkopen/issue/6/11>
2. Tech Target. (2025). *Ambient scribing reduces cognitive burden of documentation*. <https://www.techtarget.com/searchhealthit/news/366619518/Ambient-scribing-reduces-cognitive-burden-of-documentation>
3. KLAS Research. (2025). *EHR Usability and Clinician Burnout: 2025 Trends*. <https://klasresearch.com>
4. Healthcare IT News. (2025). *AI and Ambient Documentation in EHRs: Market Insights*. <https://www.healthcareitnews.com>
5. Gartner. (2024). *Top Trends in Healthcare Technology for 2025*. <https://www.gartner.com>
6. HIMSS. (2024). *Cloud-Based EHR Adoption in Mid-Market Practices*. <https://www.himss.org>
7. Journal of Medical Internet Research. (2024). *Impact of Patient-Centric EHR Features on Engagement*. <https://www.jmir.org>
8. Cybersecurity and Infrastructure Security Agency (CISA). (2024). *Zero Trust Security for Healthcare*. <https://www.cisa.gov>
9. Cornell University. (2025 March) *Integrating Large Language Models with Human Expertise for Disease Detection in Electronic Health Records*. <https://arxiv.org/abs/2504.00053>