

Improving Oncology Data Completeness for Cancer Registry Operations

HOW ONE TEXAS HOSPITAL IMPROVED ONCOLOGY DATA COMPLETENESS WITH E-PATH PLUS

INTRODUCTION

Cancer casefinding remains one of the most critical and labor-intensive responsibilities within cancer registry and HIM operations. While electronic medical record systems like Epic are foundational to clinical documentation, registry-specific workflows require additional capabilities to support accurate oncology reporting, accreditation, and long-term data integrity.

At one Texas hospital, leadership identified growing operational risks tied to a highly manual casefinding process that relied on registry staff to search across multiple systems and data sources. Despite strong staff effort and oversight, the organization recognized that manual workflows alone were no longer sustainable at scale.

To address these challenges, the organization implemented Inspirata's Native AI-enabled E-Path Plus platform to automate oncology casefinding and improve confidence in data completeness, accuracy, and operational efficiency.

THE CHALLENGE

Leadership identified several operational and reporting concerns within their existing workflows:

- Limited visibility across multiple casefinding sources
- Heavy reliance on manual review processes
- Increased risk of missed or delayed reportable cases
- Difficulty scaling workflows to meet accreditation and reporting requirements
- Significant staff time spent searching for cases instead of focusing on quality and follow-up activities
- Limited ability to confidently quantify missed cancer cases

While Epic provided access to pathology reports and other clinical documentation, leadership found that registry-specific workflows required additional functionality beyond the EHR.

Key limitations included:

- Lack of automated registry abstraction workflows
- No application of SEER-specific reporting logic
- Challenges configuring Clarity and SlicerDicer for registry use cases
- Delays in identifying reportable oncology cases
- Fragmented workflows across multiple clinical systems

An internal analysis ultimately confirmed that existing workflows were not sufficient to ensure the level of completeness, scalability, and confidence required for long-term oncology operations.

THE SOLUTION

After evaluating multiple vendors and approaches, the organization selected Inspirata's Native AI-enabled E-PathPlus platform to support automated oncology casefinding and abstraction.



KEY ORGANIZATIONAL RESULTS

Improved Casefinding Completeness

Annual reportable **case volume increased from approximately 2,400 cases to more than 3,000 cases**, representing a **25% increase** in identified reportable cases tied to improved casefinding completeness.

Increased Confidence in Data

Accuracy, consolidating pathology, radiology, and disease index workflows into a unified process improved confidence in reporting accuracy and completeness.

Greater Operational Efficiency

Automation reduced the burden of manual searching and allowed registry staff to focus more heavily on:

- Follow-up activities
- Data quality initiatives
- Reporting accuracy
- Physician collaboration and analytics



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Leadership prioritized a solution that could:

- Identify reportable cancer cases in real time
- Analyze pathology, radiology, and disease index data together
- Apply registry-specific reporting rules and SEER logic
- Integrate into Epic workflows without creating parallel processes
- Improve operational scalability without reducing staff

E-Path Plus was selected for its ability to:

- Automate cancer casefinding and abstraction workflows
- Consolidate multiple data sources into a single workflow
- Support registry-specific requirements and reporting standards
- Deliver real-time data extraction from clinical systems
- Improve operational efficiency using AI, NLP, machine learning, and large language models

BALANCED WORKFORCE STRATEGY

Leadership did not view automation as a staffing reduction strategy. Instead, automation was implemented to help existing teams manage growing complexity, increasing workloads, and ongoing recruitment challenges within registry operations.

At the time of implementation, the registry team included:

- One manager
- Two casefinding specialists
- Four abstractors

As more reportable cases were identified, leadership reassessed workload distribution and staffing strategy rather than reducing headcount.

Additional efficiencies gained through automated data extraction and workflow support helped the organization manage increased volume more effectively while improving overall operational balance.

CONCLUSION

Accurate cancer casefinding is foundational to oncology reporting, accreditation, compliance, and long-term data integrity.

For organizations operating in increasingly complex oncology environments, fragmented manual workflows can create operational strain and increase the risk of missed reportable cases.

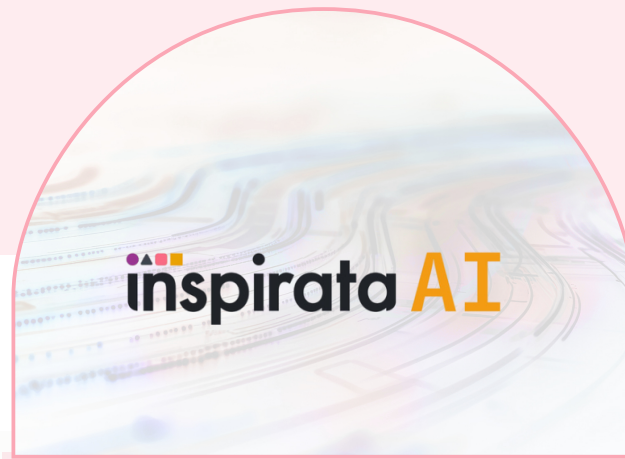
By implementing Inspirata's Native AI-enabled E-Path Plus platform, this Texas hospital transitioned from a fragmented manual process to a scalable, registry-focused workflow designed to support completeness, efficiency, and confidence in oncology data operations.

LEARN MORE

Discover how Inspirata's AI-enabled oncology registry solutions help organizations improve:

- Casefinding completeness
- Registry workflow efficiency
- Reporting accuracy
- Compliance readiness
- Long-term operational scalability

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Strategic Value and Leadership Perspective

"Leadership did not view casefinding automation as a staffing reduction strategy. Recruitment constraints and a preference to retain in-house staff reinforced the value of implementing automation."

"With greater confidence in the data, the organization is now collaborating more closely with physicians through internal dashboards to support patient care and operational decision-making."

Organization Type: Single-facility hospital partnered with a large multi-facility system

Leadership Title: Director of Data Integrity & HIM Informatics

Location: Texas

EHR: Epic

