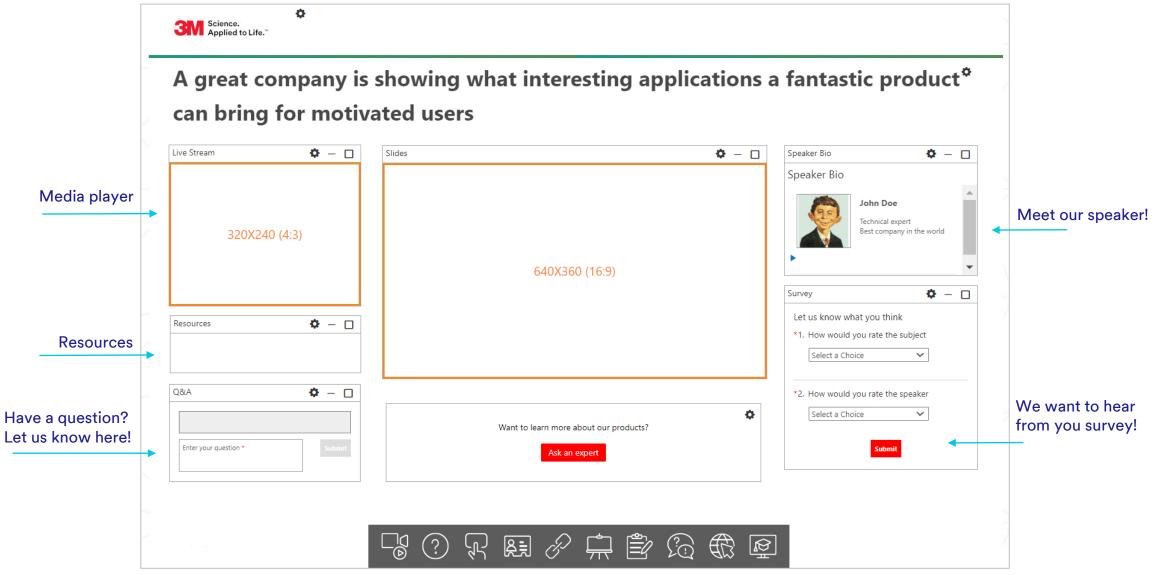
New year, new webinar platform!





On24 Webinar Platform for a better user experience!

- On24 Webinar Platform for a better user experience!
- Use Google Chrome and close out of VPN/multiple tabs
- Check speaker settings and refresh if you are having audio issues
- Ability to move engagement sections
- Ask questions!
- Certificate of Attendance available to download for live webinar sessions
- Engagement tools and CC available
- Check the resources section
- Complete the survey

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Meet the speaker



Kathy Harkness, RN, BSN, CCDS
3M HIS CDI client engagement executive

Community hospital challenges

1 in 5

Americans receive care in community and rural hospitals

81%

High-risk hospitals considered *highly* essential to their communities

25%

US rural hospitals at high risk of closing

60%

Health Professional Shortage regions are in community and rural areas

Source: 2020 Rural Hospital Sustainability Index: Trends in Rural Hospital Financial Viability, Community Essentiality, and Patient Outmigration



Why clinical documentation integrity?

Accuracy leads to an appropriate representation of:

- Quality scores
- Reimbursement
- Physician Score cards
- Public Health Data
 - Disease Tracking
 - Medical Research

"Meaningful, clear, concise, consistent, complete, reliable, timely, and legible documentation to accurately reflect the patient's disease burden and scope of services provided."

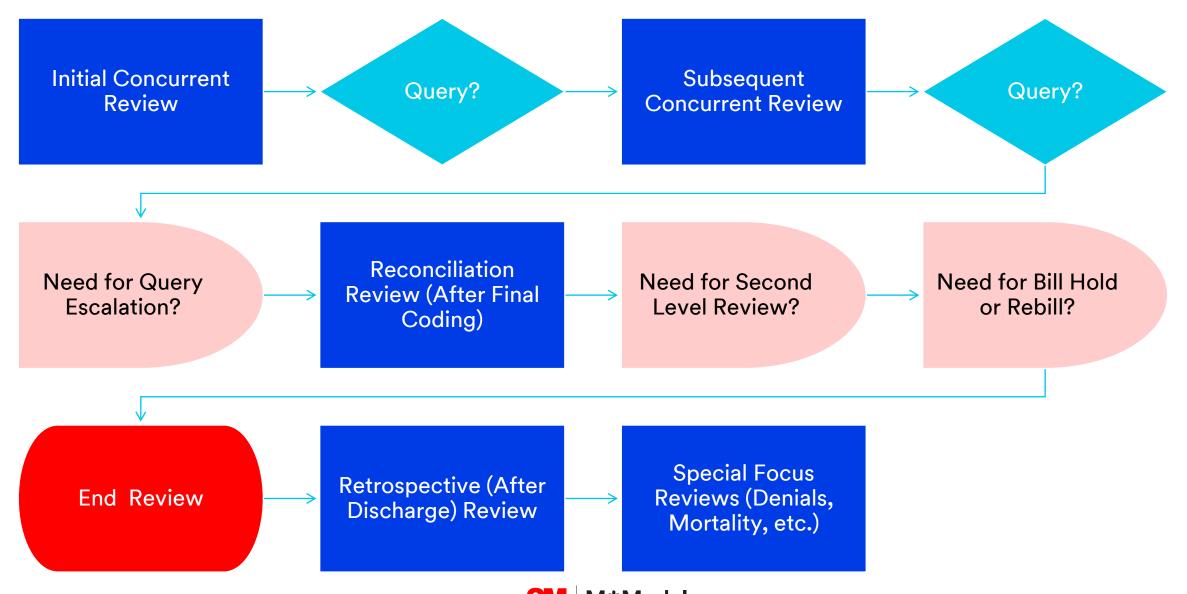
- AHIMA





Source: https://www.ahima.org/education-events/education-by-topic/

Typical CDI workflow focus



Our strategic imperatives



Unburden Physicians and Nurses

Reducing physician burn out by dramatically reducing time spent on clinical documentation and by addressing administrative requirements and best practices proactively and within the natural workflow.



Improve Patient Experience

Transforming the patient-physician relationship by allowing physicians to focus on patients instead of technology and drive towards documentation becoming an automatic by-product of the patient-physician engagement.



Enhance Quality of Care and Clinical Documentation

Dramatically improving clinical documentation and capturing a more complete assessment of the patient while proactively identifying and closing gaps in care.

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How technology can help



Prioritized Worklist



Automated Chart
Abstraction



Encoder Integration



Query Automation and Integration



CDS Workflow Tracking



CDI Program Reporting

CDI product that centralizes your program and provides a single access to encounter documentation.

Enables CDI to streamline fragmented processes, standardize practices, and gives visibility into productivity and documentation trends.

Provides data for ongoing performance improvement initiatives.



Technology: 3M™ M*Modal CDI Collaborate

Prioritized workflow

■ You m	odified your worklist. Save		Q Search (patien		
Patient	▼ 1½ Working MS ▼	Working RW	Working GLOS	↓≙ Pend	12 Potentia
gett, Vivien	070	1.6729	4.5	0	Malnutrition (Oppor Pneumonia (Oppor
hek, Claire	871	1.8663	4.8	1	Neurology (Opportu Altered Mental State
lder, Gwen X	280	1.6571	4.2	2	Anemia (Opportunit Pneumonia (Opport
rora, Claire X	982	2.4381	4.6	0	Anemia (Opportunit Heart Failure (Oppo
non, Claire X	190	1.1440	3.6	0	Electrolytes (Opport Anemia (Opportuni
ek, Ernest	853	5.0986	9.8	0	COPD (Opportunity Arrhythmia (Opport
ff, Minh	293	0.6553	2.3	0	Respiratory Failure Malnutrition (Oppo
lier, Willie	812	0.8707	2.7	0	Neurology (Opportunit
asley, Willie X	981	4.4907	8.4	0	Acidosis Alkalosis (C Heart Failure (Oppo
on, Ginger	291	1.3454	4.1	1	Neurology (Opporte Malnutrition (Oppo
hugh, Pearle X	291	1.3458	4.1	0	Pneumonia (Opport Arrhythmia (Opport
	202		^ ^	^	

- Prioritization based on real-time encounter information
- Highly configurable and customizable
- Web-based for easy access
- Very wide variety of worklist options available



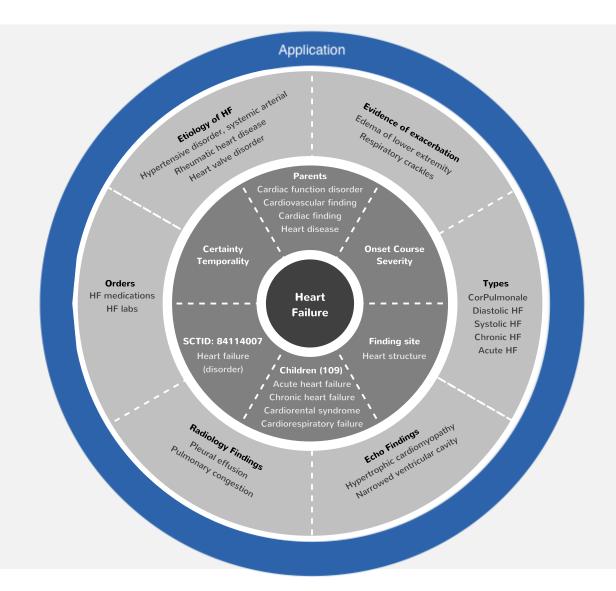
The foundation: Natural Language Understanding

Aggregates and reasons over clinical information from various sources, such as narrative documents and discrete data.

Relies on standard ontologies, such as SNOMED, to establish relationships between medical terms.

Establishes clinical value sets for related treatment, findings, procedures, manifestations, etc.

Uses a combination of artificial intelligence, machine learning (core) and rules engines (application).





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NLU application

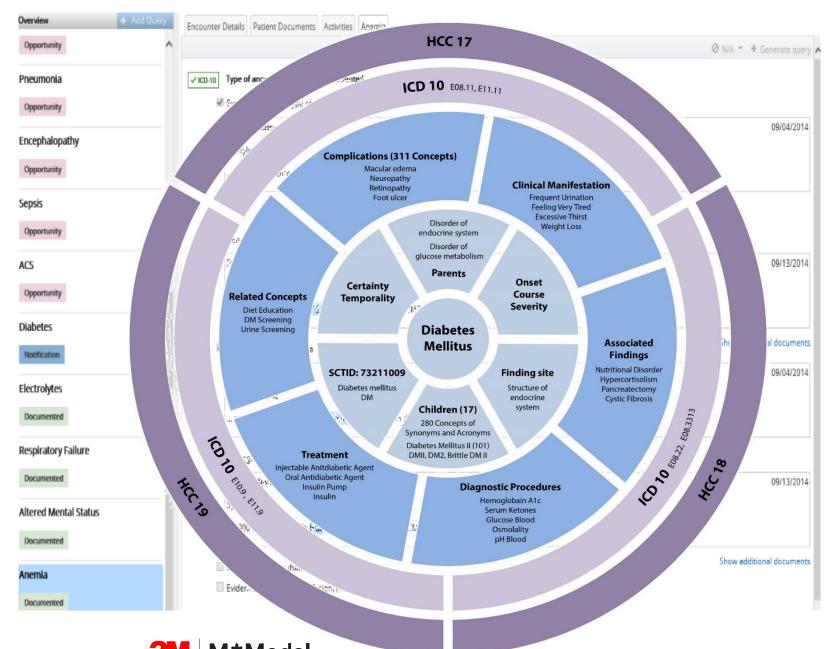
Natural Language Understanding (NLU)

The queries tab works in conjunction with potential conditions. This column is populated with potential queries that could be relevant to the patient.

They are categorized by:

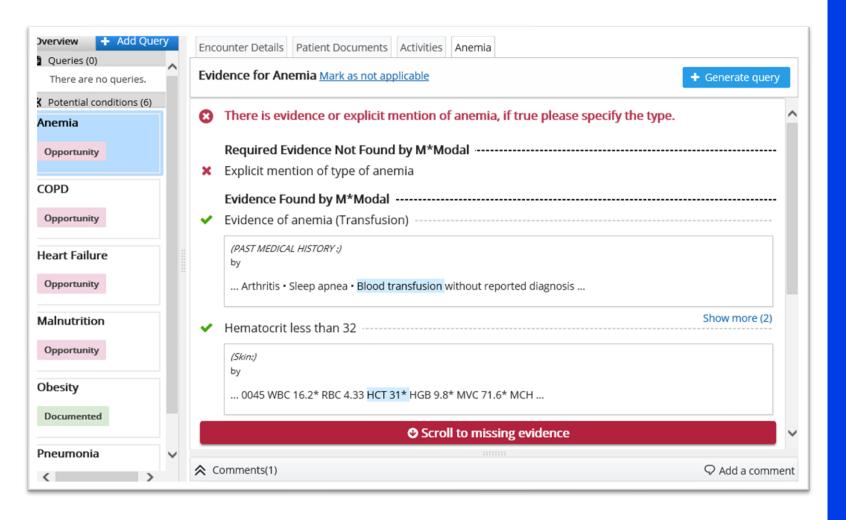
- Opportunity
- Notification
- Documented

In addition to documented evidence, the NLU system has the ability to identify evidence that has not been found.



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NLU evidence sheets



Evidence sheets for different conditions show the rules and evidence identified via Natural Language Understanding (NLU).

Rules run across all documents from the encounter - labs, radiology, clinical notes, etc. to identify pertinent documentation for different conditions.

Users can click on evidence snippets to launch the full document.

These pieces of documentation and evidence are summarized on the evidence sheet along with an indicator detailing if the condition was fully documented or is a documentation opportunity that could potentially require a query.



Integrated queries



3M brings all the facility's approved query forms into 3M CDI Collaborate for easy launching and editing



Query forms are auto-populated with all patient demographic information as well as clinical indicators that were identified as evidence on the evidence sheet

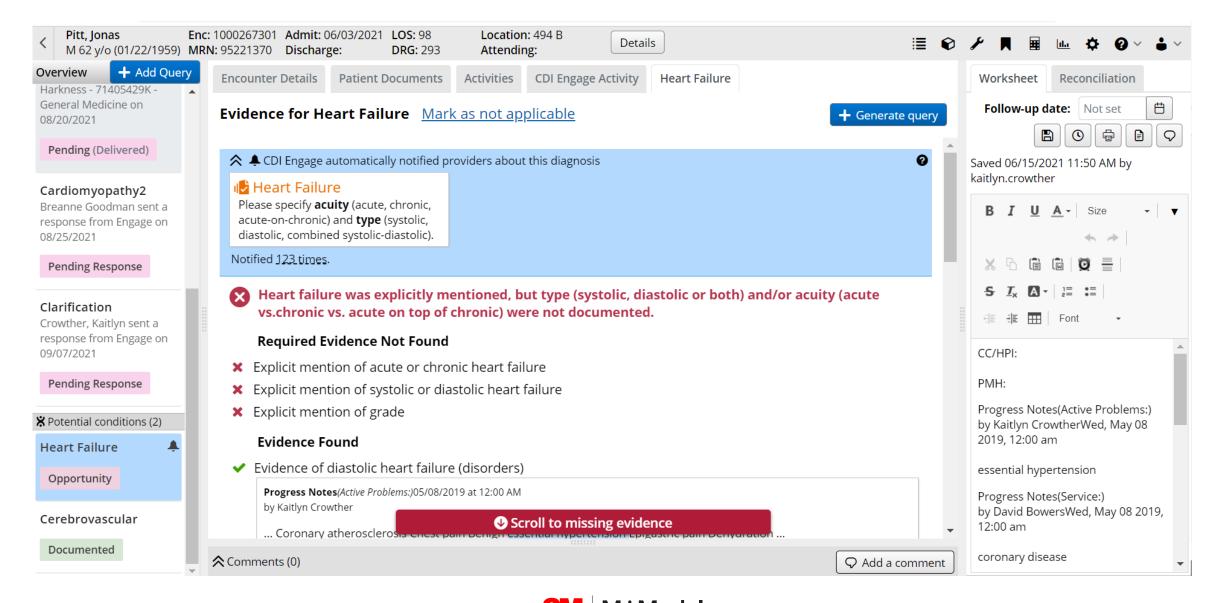


Customers can utilize the library of 3M queries or have their custom query forms imported into the application

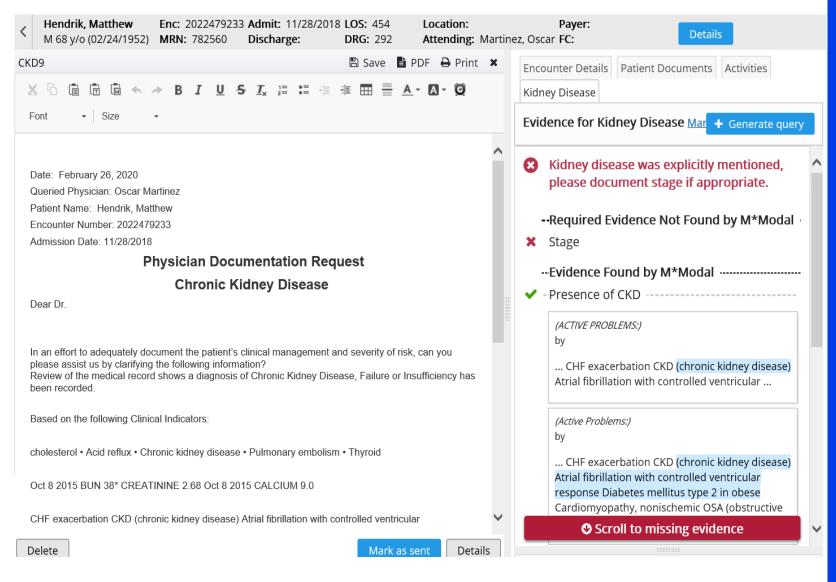


The CDI Specialist can then resolve the query once it has been marked as sent, to indicate whether or not they received a response from the physician

Queries from evidence sheets



Queries from NLU evidence



The query form can be delivered in several ways:

- Printed from the 3M CDI Collaborate application
- Converted to a PDF from the application for email delivery
- Copied into an EHR inbox
- Directly integrated into an EHR inbox



Reporting

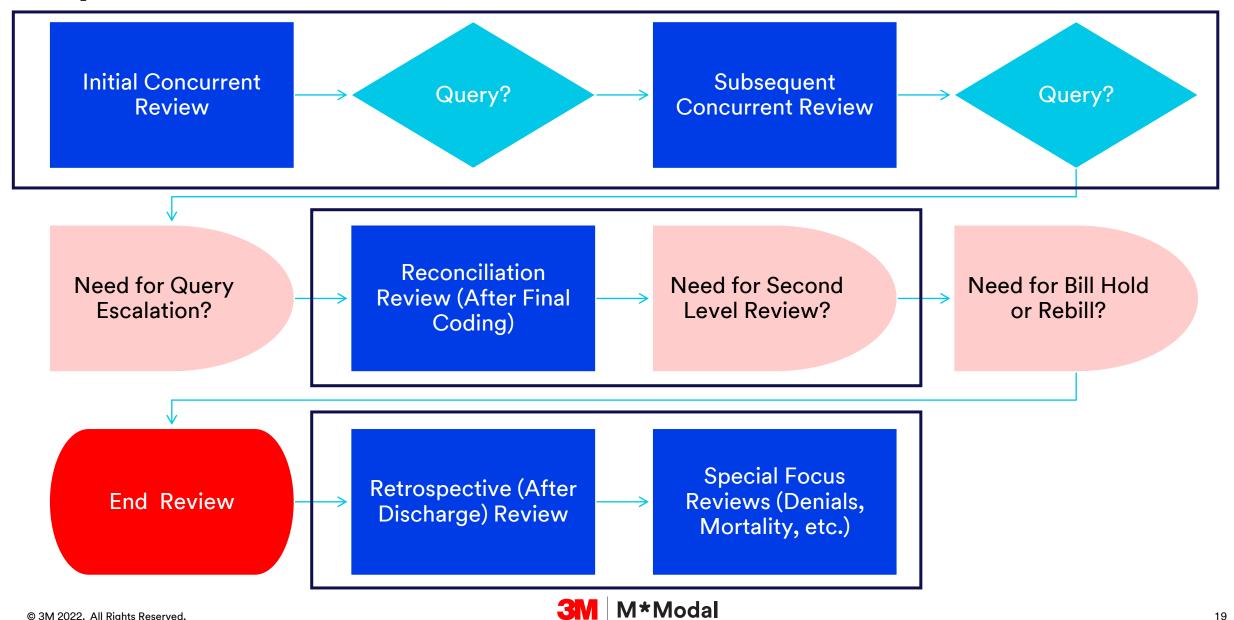
Financial Outcomes - Summary

Encounters Discharged Between:

Run Date: 11-28-2016 13:03:09

Discharge Month	Inpatient Encounters	Encounters Reviewed	Coverage Rate	Total Reviews	Total Queries	Actual RW Impact	Actual Financial Impact	СМІ	CMI due to CDI	% CMI due to CDI
05	1612	751	46.59%	2903	199	32.0994	\$212,237.83	1.0458	0.0199	1.9%
06	1572	694	44.15%	3082	166	25.1429	\$162,170.81	1.1248	0.016	1.42%
07	1540	559	36.30%	2362	103	7.0575	\$166,418.45	1.0991	0.0046	0.42%
08	1688	629	37.26%	2903	128	14.6912	\$166,251.8	1.0595	0.0087	0.82%
09	1494	524	35.07%	1932	126	9.7581	\$83,796.89	1.1368	0.0065	0.57%
10	1467	587	40.01%	2067	154	13.3634	\$127,547.23	1.1896	0.0091	0.77%
Monthly Average	1,562.2	624.	39.94%	2,541.	146.	17.0188	\$153,070.5	1.1092	0.0108	0.98%

Impact to the workflow



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Case study

Real results

Randolph Health uses **3M CDI Collaborate** to enhance chart review and query workflow, using advanced artificial intelligence (AI) and NLU to identify missing specificity and query opportunities and improve documentation accuracy. The results to date:.



Financial:

- Average 1.49%
 medical case mix
 index (CMI) increase
 per year due to CDI
- Associated revenue improvement of \$567,716 per year on average



Clinical:

- Additional 2.13%
 MCC/CC capture on average per year due to CDI
- Additional \$325,833

 in protected billing
 from clinical
 validation queries



Operational:

Productivity
 increase equal
 to 1 CDI FTE,
 avoiding additional
 staff

Adoption

Adoption services

Integral part of any technology solution

Clinical documentation experts

The 3M adoption services team comprises health information management experts, many with registered health information administration credentials, and a deep understanding of 3M solutions and clinical documentation workflows.

2.

Optimize adoption and outcomes

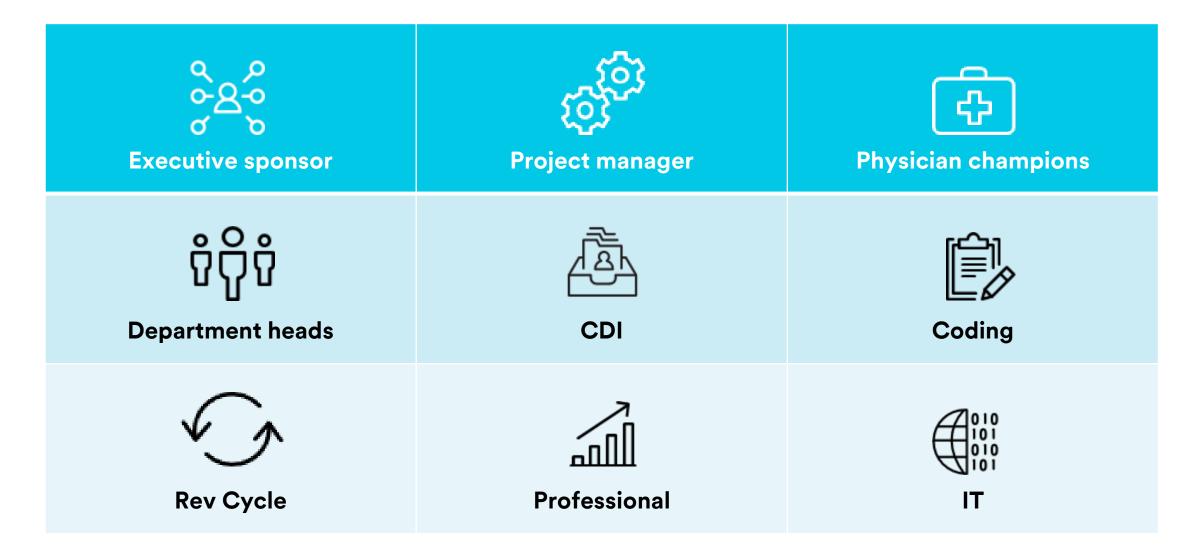
3M adoption specialists partner with customers to understand user needs and clinical documentation goals, using a data-driven approach to drive optimization and ensure the best outcomes.

For the life of the contract

We provide life-of-the-contract adoption support because successful adoption and use of technology are only in part due to the technology itself. We believe strongly that it's the human touch that ensures broad adoption.

22

Stakeholders and roles



23

Examples of customization and tuning

Customization

- Ability to define clinical evidence for prioritization, evidence sheets, and other functions in line with the health system's current CDI/clinical practice
- Ability to submit new content requests for development in addition to or instead of "out of the box" content

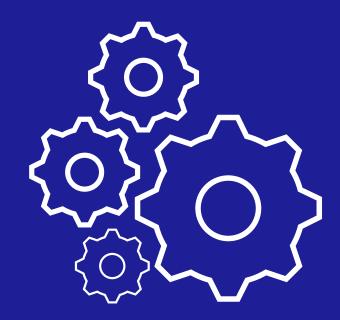
Tuning

Natural Language Understanding (NLU) review during implementation and ongoing as needed to ensure appropriate documentation capture. Examples include:

- Appropriate capture of abbreviations/acronyms
- Appropriate capture of punctuation, especially as it relates to lab results.
- Ensuring that clinical concepts that were documented correctly, are also appropriately captured from an NLU perspective.

5 strategies for successful adoption in community hospitals

- Clinical reasoning Understand the clinical reasoning engine, including what conditions are covered out of the box and how you can customize those
- Prioritization Align on clear prioritization criteria that support your goals, and ensure technology can adapt to support these now and in the future
- Compliance Ensure you can create query templates that align with compliance requirements
- **Technology** Consider how the technology works with your current footprint, and what support is available
- Post-implementation resources Understand the resources available post-implementation to promote adoption and continuous improvement





Questions?

Interested in learning more about our products and solutions? Let us know!

Thank you!