

On24 for a better webinar experience!

The screenshot displays a 3M On24 webinar interface. At the top left is the 3M logo with the tagline "Science. Applied to Life.™". The main content area features a title slide: "A great company is showing what interesting applications a fantastic product* can bring for motivated users". Below the title are two large video windows: "Live Stream" (320X240 (4:3)) and "Slides" (640X360 (16:9)). To the left of the main content are three stacked panels: "Resources", "Q&A" (with a text input field and a "Submit" button), and a "Have a question? Let us know here!" prompt. To the right are two panels: "Speaker Bio" (featuring a photo of John Doe, a "Technical expert" and "Best company in the world") and a "Survey" section with two questions: "1. How would you rate the subject" and "2. How would you rate the speaker", each with a "Select a Choice" dropdown and a "Submit" button. At the bottom center is a "Menu Bar" with icons for video, chat, Q&A, resources, and other functions. A red "Ask an expert" button is located at the bottom center of the main content area.

Media player

Resources

Have a question?
Let us know here!

Meet our speaker!

We want to hear from you survey!

3M CDI Innovation Webinar Series

NLU, clinical content and documentation integrity

March 2023

Housekeeping

- 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

The information, guidance, and other statements provided by 3M are based upon experience and information 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and skills sufficient to assess and apply their own informed judgment to the information and is not a substitute for the user's own analysis. The participant and/or participant's organization are solely responsible for any compliance and reimbursement decisions, including those that may arise in whole or in part from participant's use of or reliance upon information contained in this presentation. 3M disclaims all responsibility for any use made of such information. No license under any 3M or third-party intellectual property rights is granted or implied with this information.

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Meet our speakers

Dannie Greenlee
MS, BSN, RN
NLU CDI Content
Manager



Josh Amrhein, MHA
NLU Program Manager

Agenda

- Introduction
- Primary goals
- AI technology in documentation
- Content Governance
- Use Case: Heart Failure
- Summary



Primary goals

Achieve compliant documentation through AI

Decrease documentation burden on providers

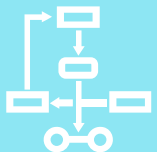
Increase efficiency, accuracy and consistency across workflows

Expand CDI team's encounter coverage

Intelligent prioritization, driven by AI

- Clinical Factors
- Patient and visit-focused factors
- Event-driven factors

Game-changing cloud-based AI technology



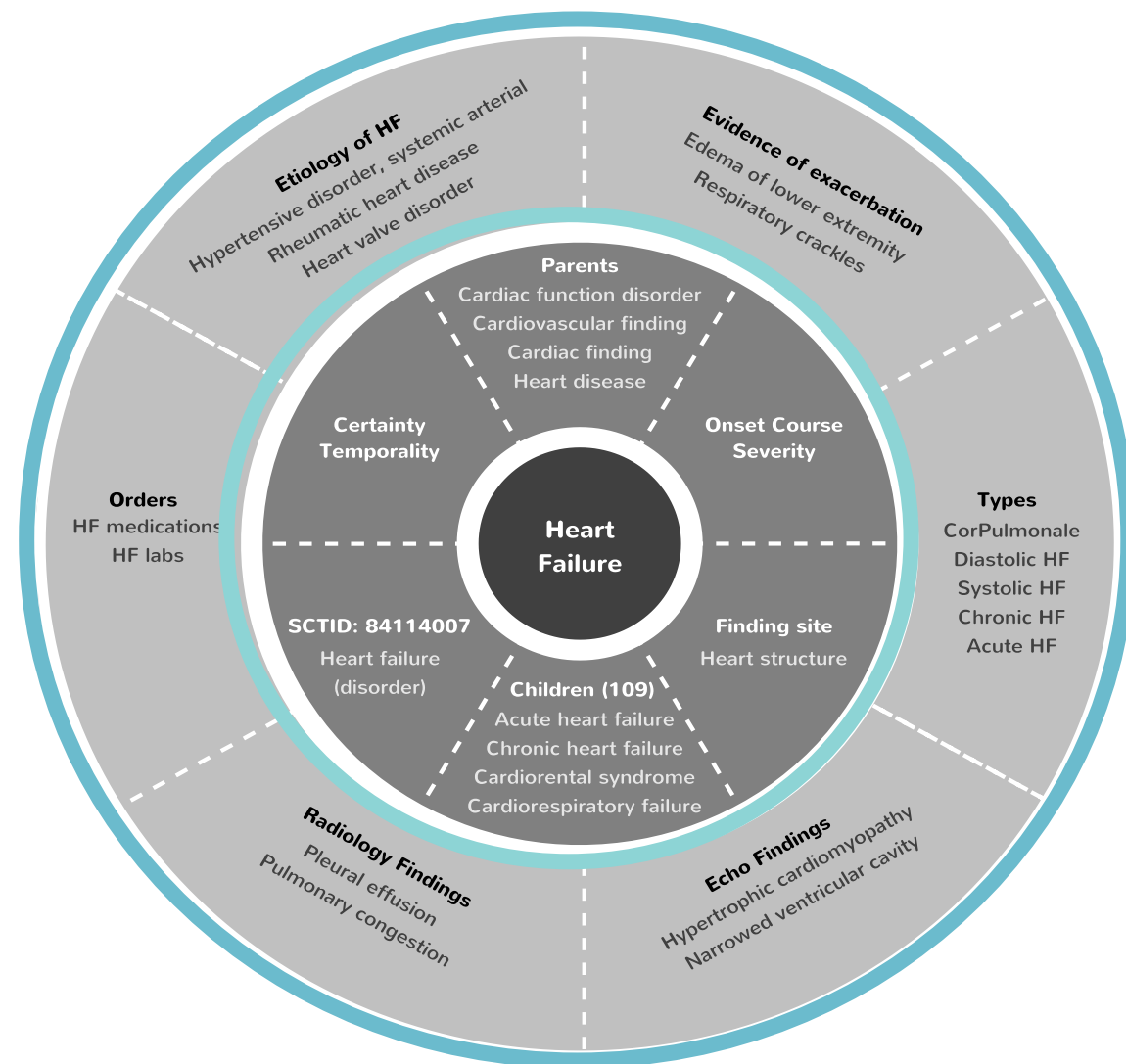
Applies **semantic reasoning and contextual understanding** to data aggregated from EHRs, etc.



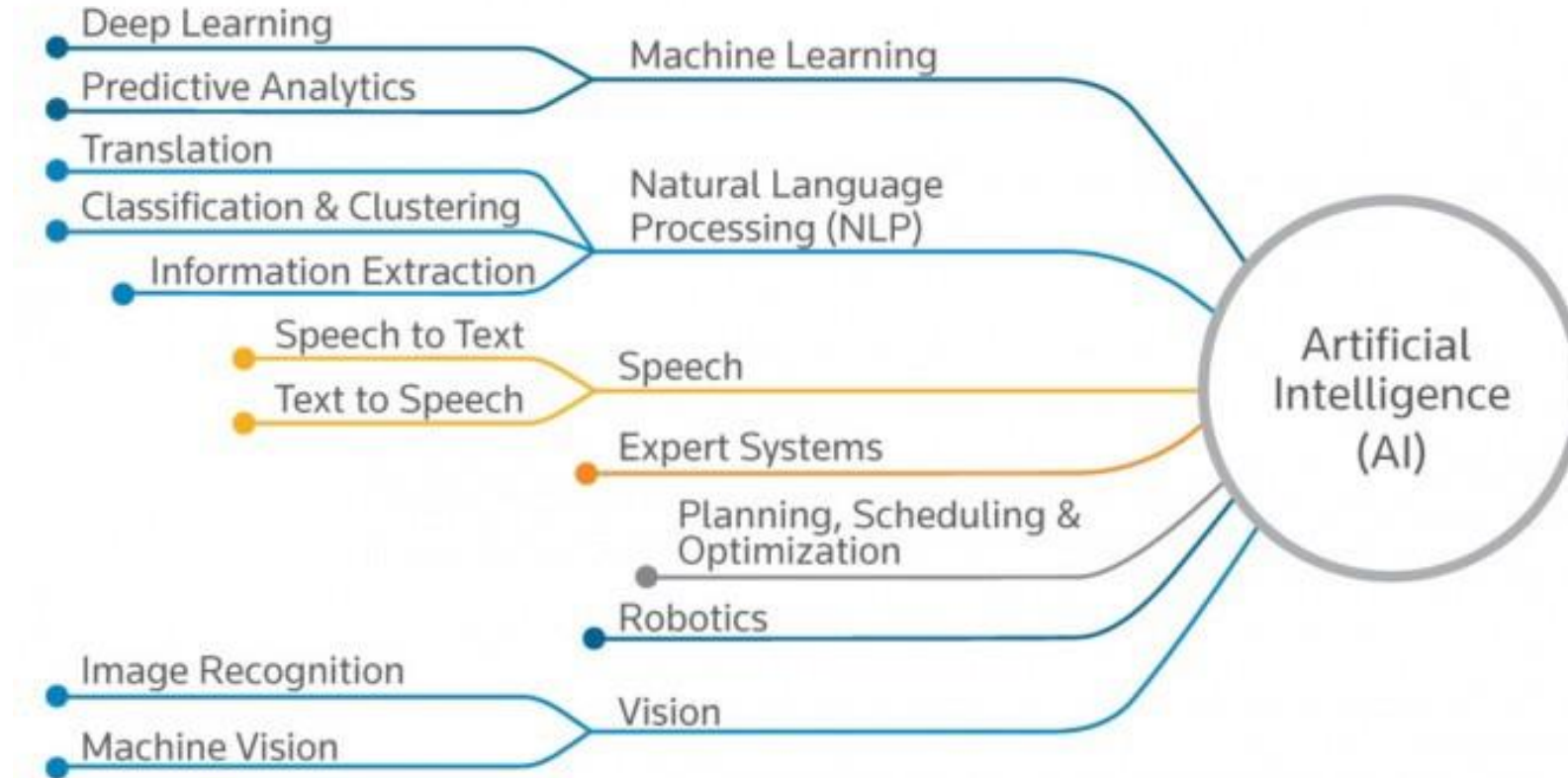
Continuously and automatically reviews, **analyzes, monitors and improves** all your documentation, all the time driving consistency and efficiency.



Uses **standard ontologies** as well as **clinical concepts and value sets** from across the medical record.



Artificial Intelligence



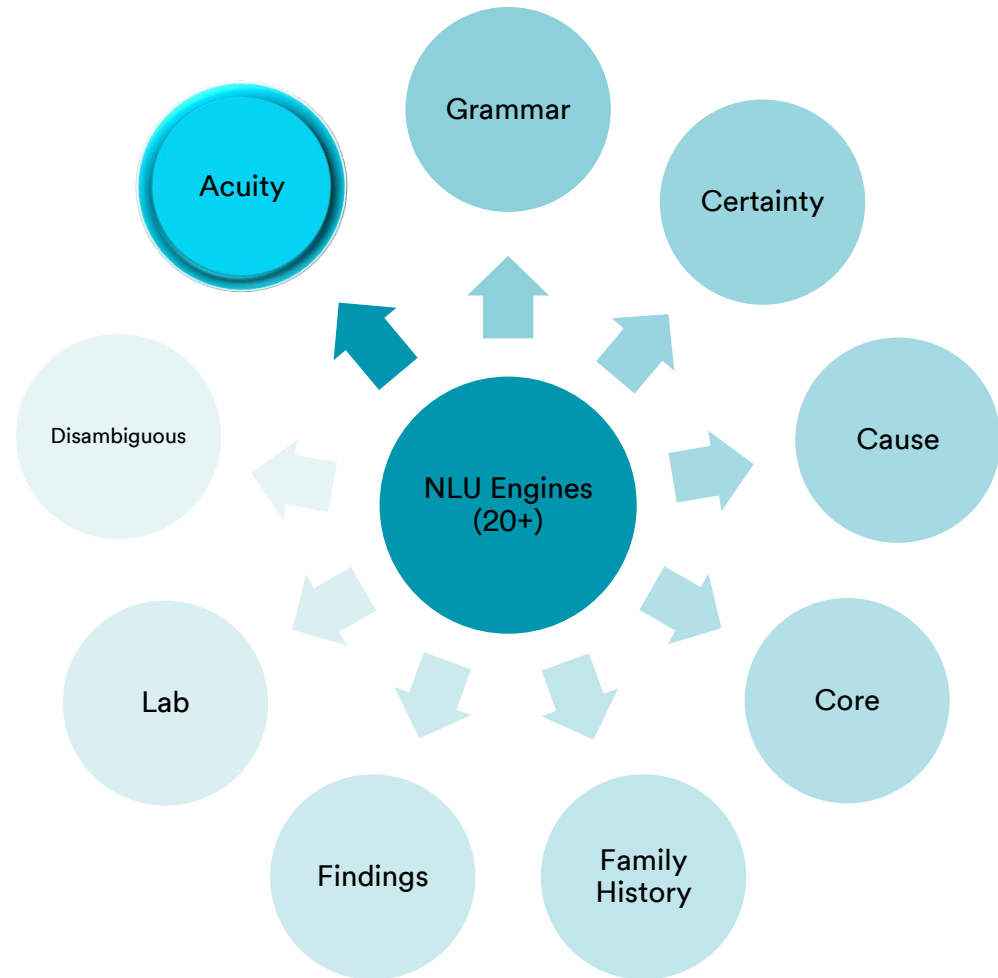
Source: Becoming Human: Artificial Intelligence Magazine
What is Artificial Intelligence (AI), Sanket Garbhe

NLU engines

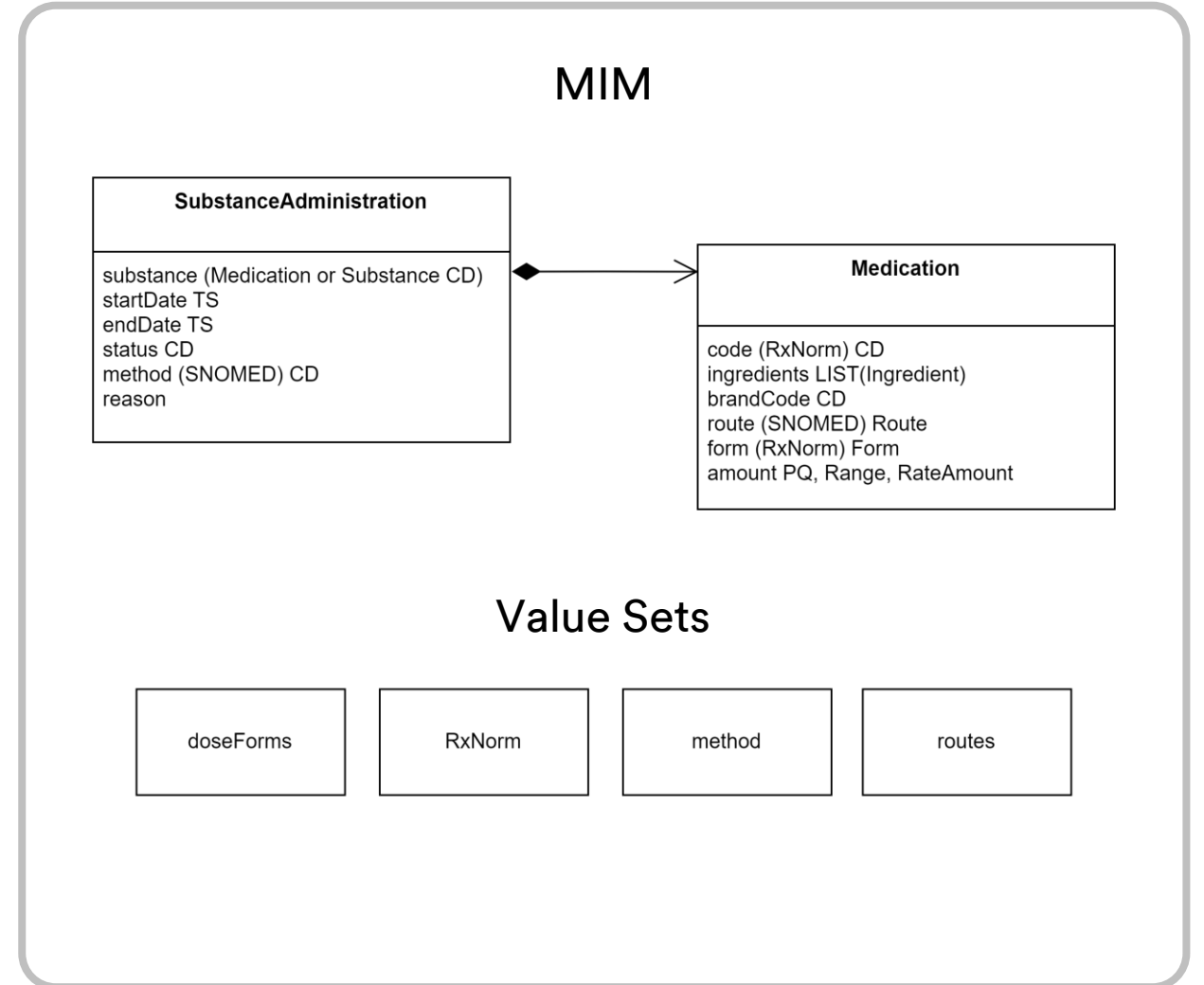
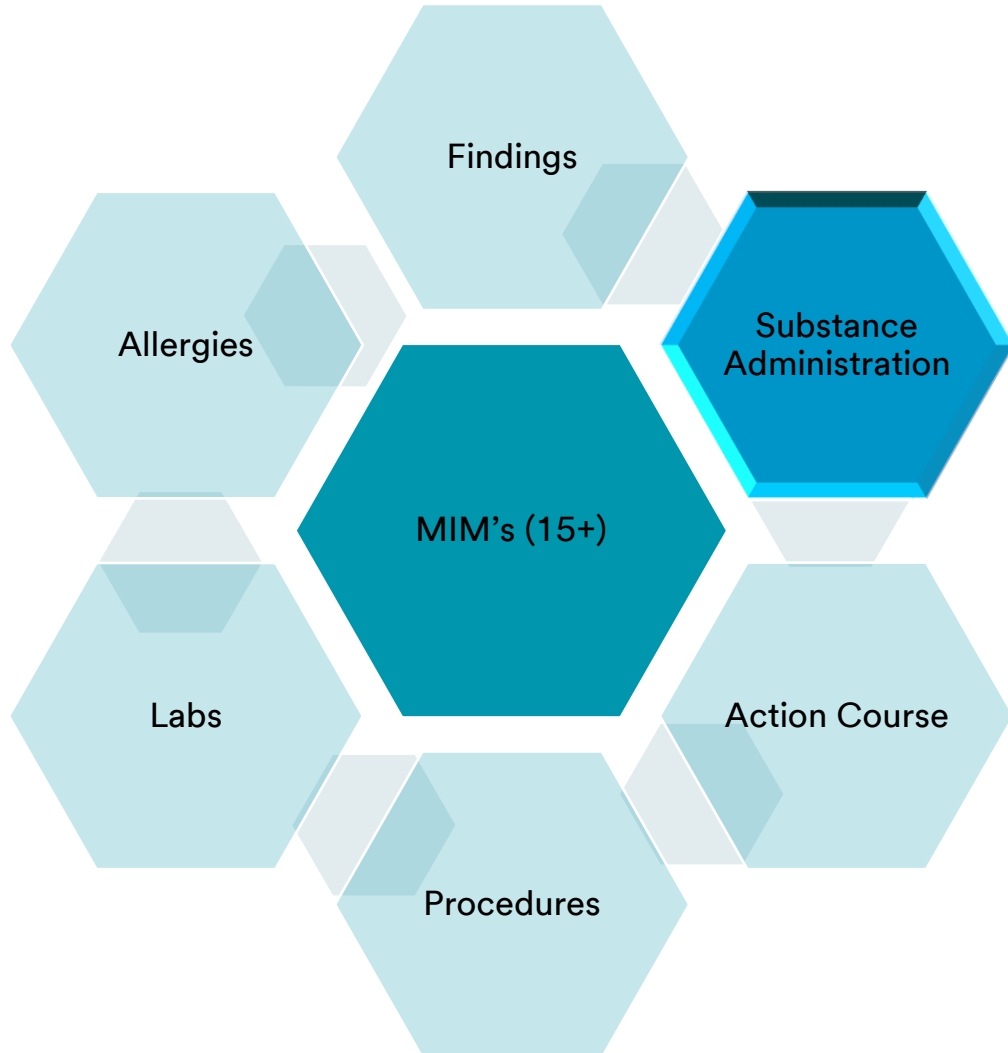
Acuity Engine

Grammar based engine that assigns acuity to findings

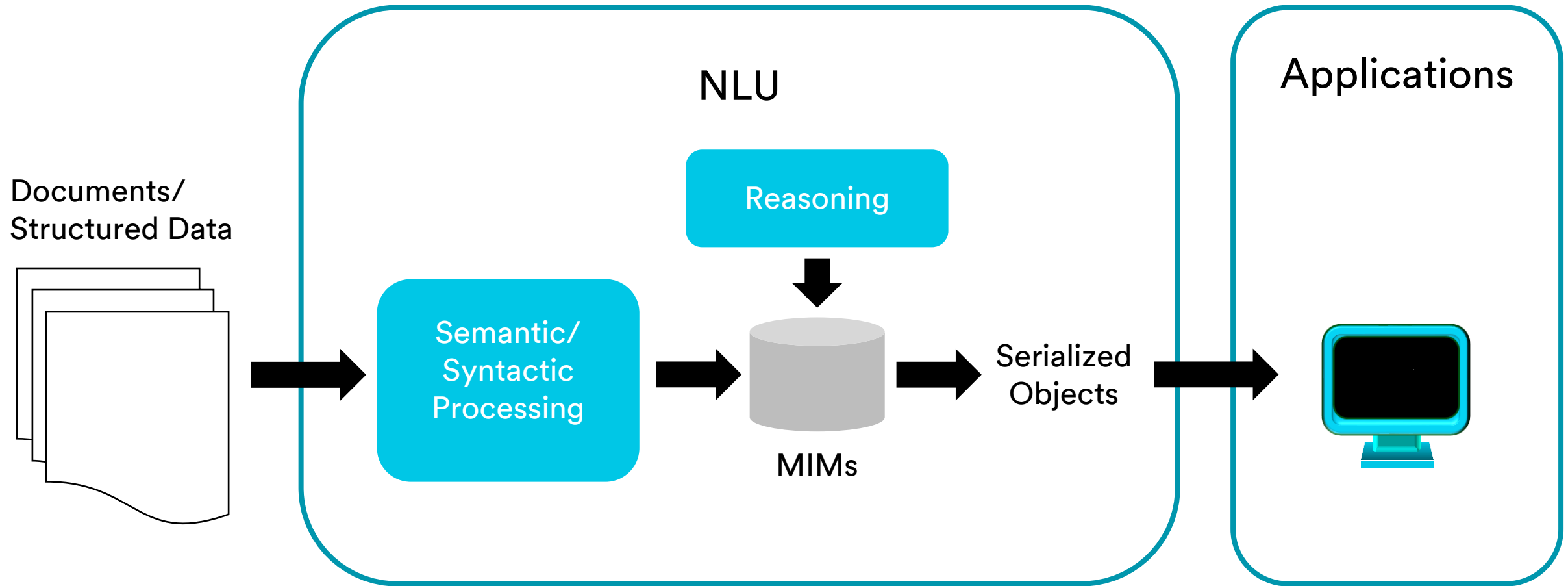
- Acute onset
- Acute to sub-acute
- Acute on chronic
- Chronic
- Sudden onset



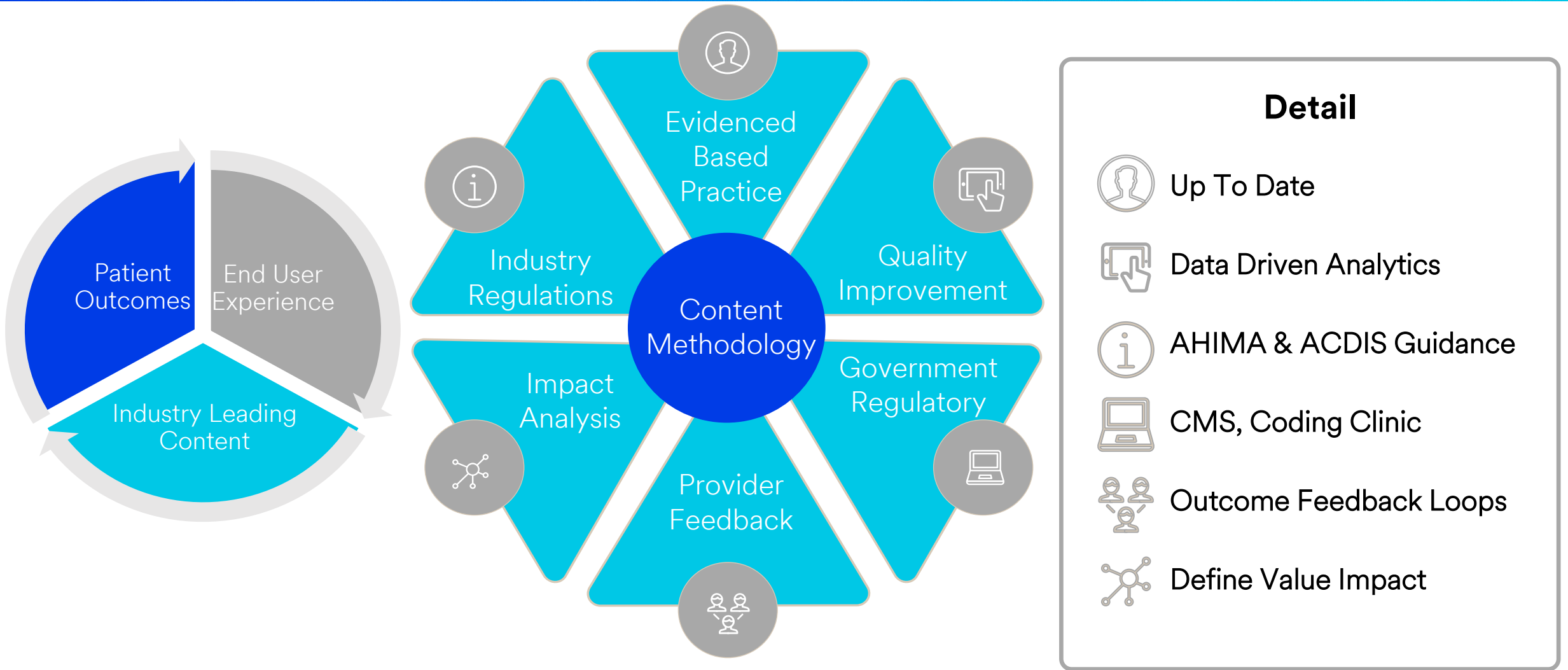
M*Modal Information Models (MIMs)



MIMs in NLU



Content governance



Customization request process

Adoption specialist assigned for life of project

- Customer meetings with adoption, weekly, bi-weekly, daily as needed
- On site visits as needed
- Works with customer to determine nudges for go-lives and specialties
- Submits customer requests (enhancements, issues, bugs)
- Tests with customer in product

Content coach supports adoption and customer

- Joins weekly calls if content discussions are needed
- Triage's customer requests following content workflow
- Discuss content needs with adoption to best support customer

Clinical content team



Medical providers
document in
CLINICAL terms



Coding & compliance
need specificity in
DIAGNOSIS terms



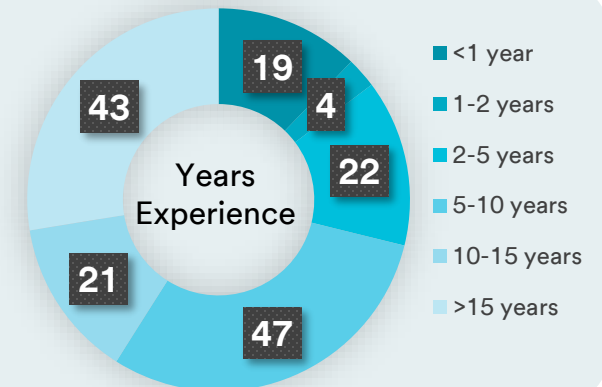
A CDI program creates a bridge between this gap.

Who builds the
bridge?

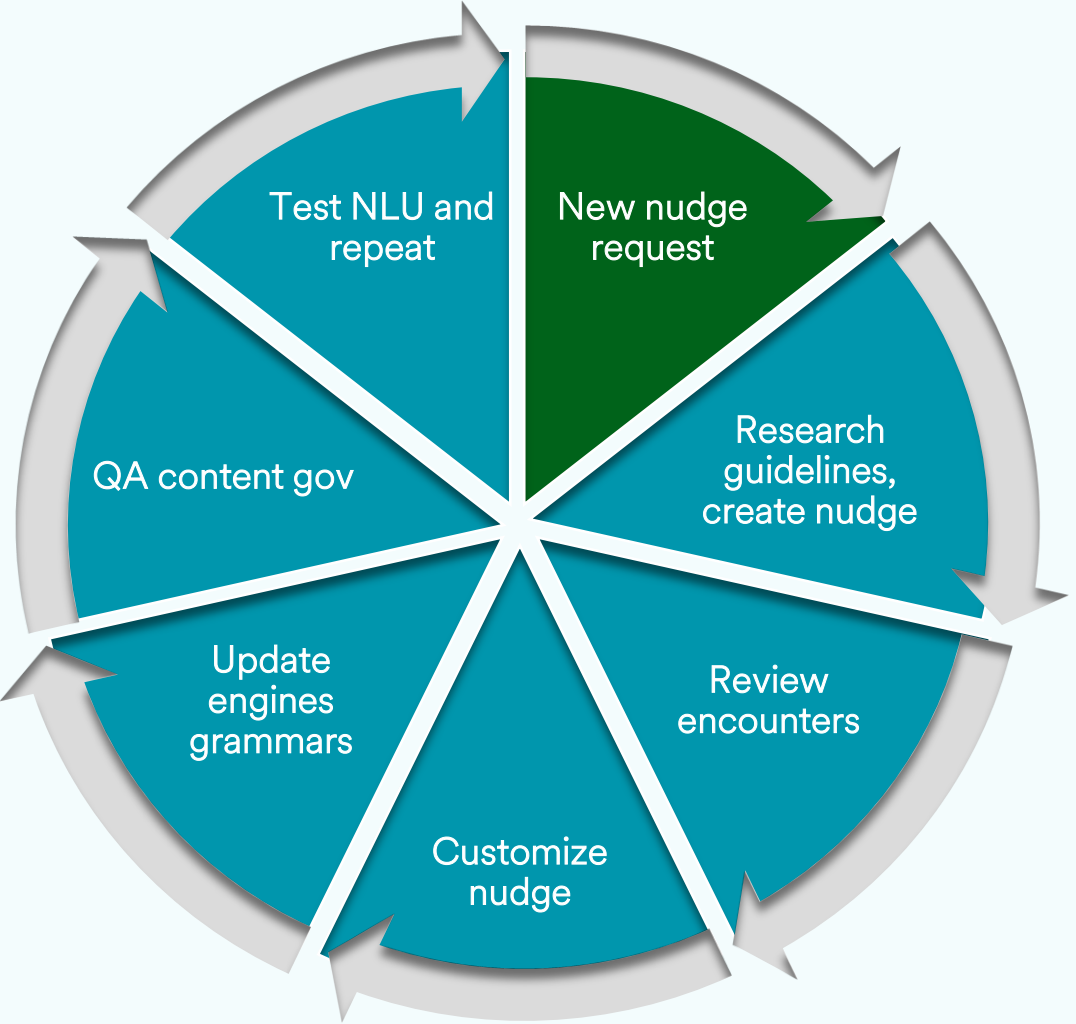
20+ Variety of Credentials
(MD, PhD, PharmD,
MS/MSN, MLS, MSW, RN,
BS, CPC, CCS, CCDS, RHIA)



The Clinical Content
Team



Content workflow diagram



Q1 2023 3 Releases

Q2 2023 3 Releases

Q3 2023 3 Releases

Q4 2023 6 Releases

Q1 2024 6 Releases

Quantity Recommendations

To avoid burnout for providers and CDI specialists, 3M has established the following best practices:

Evidence Sheets

At Go-Live:

10-11 potential conditions from the approved conditions list

30 Days Post Go-Live

Add 3-5 additional conditions

60 Days Post Go-Live

Add 3-5 additional conditions

Nudges

At Go-Live:

3-5 specialty-specific groups

10-11 nudges per group

3 Months Post Go-Live

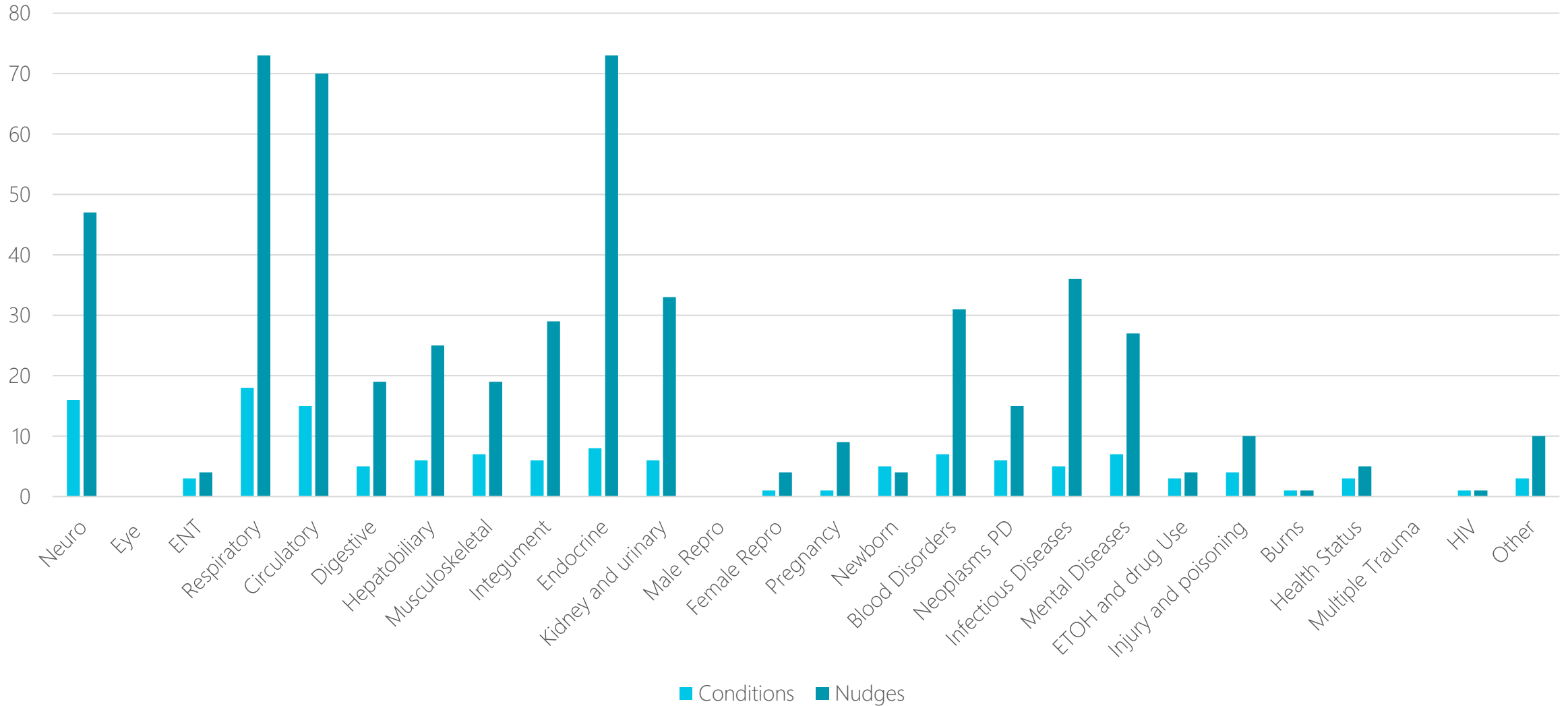
Up to 10 specialty-specific groups

10-12 nudges per group



**For each nudge, the same condition should be enabled for Evidence Sheets. **

Areas of coverage



Heart failure overview

MDC 05 Circulatory System

Condition: Heart Failure

Nudge count: 9

CDI Guidelines

- Code to specific type and acuity
- Specify stage of HF if possible
 - ACC/AHA classification used as reference
- **3M coding and reimbursement references, coding clinics, ACDIS/AHIMA references

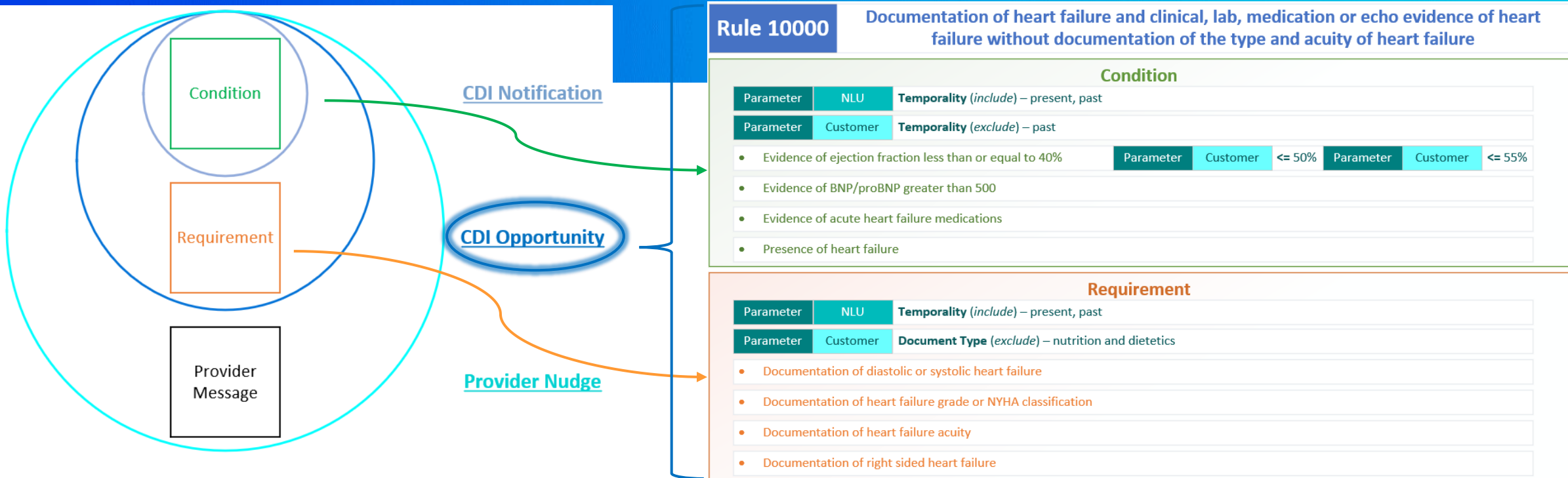
Clinical Guidelines

- EF variable (<40, <55, custom)
- Criteria examples
 - Neck vein distention, rales, S3 gallop, neck vein distention etc.
- **Up to date, Merck Manual

Heart failure nudge

Documentation of heart failure (+/- evidence of heart failure) without documentation of type and acuity of heart failure

Nudge Details	CDI Messages	Provider Message
<p>Condition:</p> <ul style="list-style-type: none">• Documentation of HF• (+/-) evidence of diastolic HF• (+/-) evidence of acuity <p>Requirement:</p> <ul style="list-style-type: none">• Documentation of systolic/diastolic HF• Documentation of acute/chronic• (+/-) grade	<p>Rule Satisfied Message:</p> <ul style="list-style-type: none">• Acuity and type of heart failure were properly documented <p>Unsatisfied Message:</p> <ul style="list-style-type: none">• There is documentation and evidence of heart failure but type and acuity were not documented	<p>Title: Heart Failure</p> <ul style="list-style-type: none">• Please document the type and acuity of heart failure



Value Sets

Concepts

Parameters

Parameter

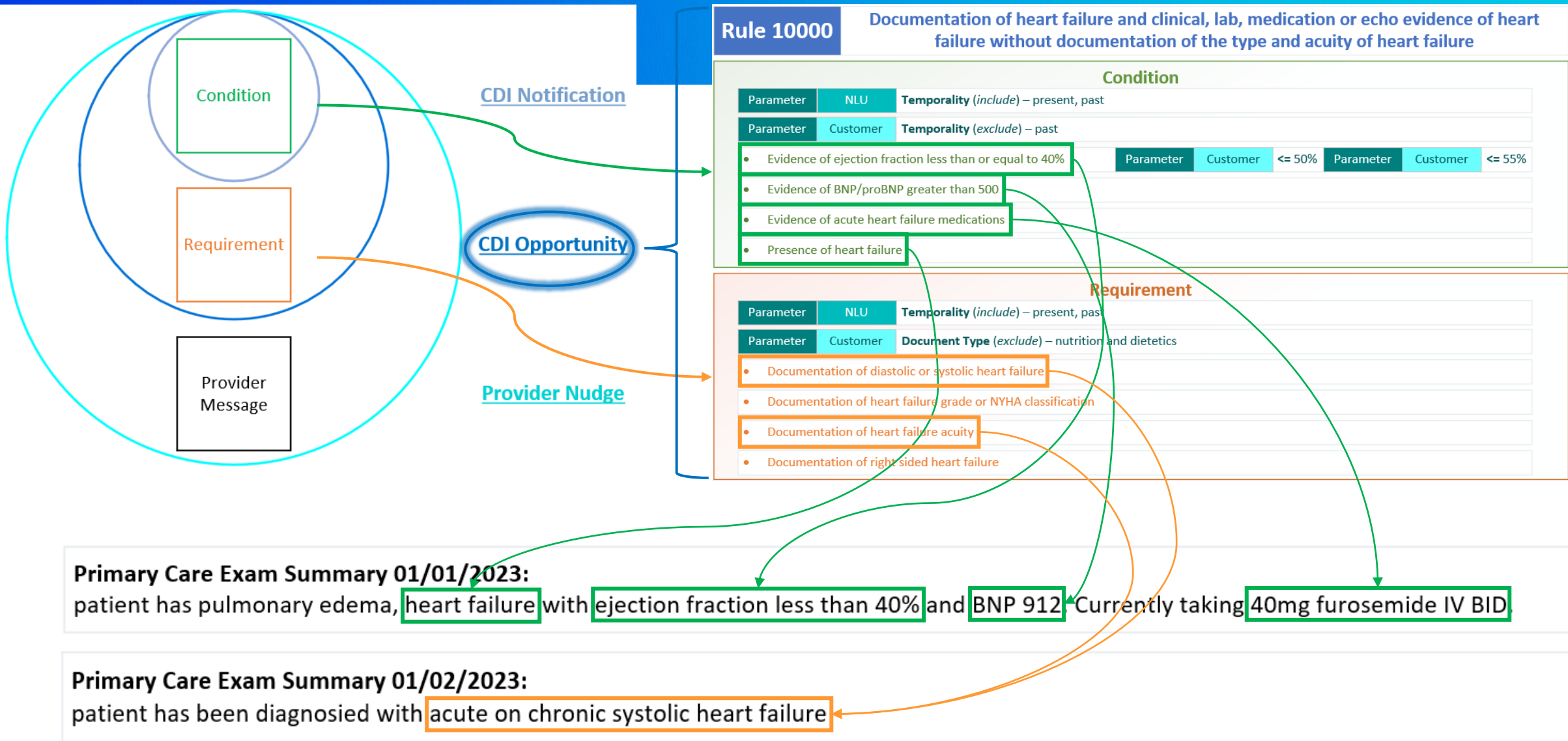
NLU	• Temporality – past, present, future
NLU	• Experiencer – family, patient, other
NLU	• Certainty – certain, hedged, hypothetical, maybe, remote, ruled-out, negative, undefined..
NLU	• Document Type – clinical, lab, radiology, medication administration
Evidence - ejection fraction less than or equal to 40%	Customer <= 50%
Documentation – acuity of heart failure	Customer OR - right ventricular failure

Encounter reviews

Review Encounters

- Per nudge, per customer and across customers
- Search for grammar, language and NLU patterns/issues
- Disambiguation – acronyms most common issues

Category	Cause	Comments
Circulatory	Incorrect evidence	Template issue: O2 triggering instead of flow rate
Respiratory	Other	False Positive. Disambiguation: 'pe' 'Immature granulocytes' – (pulmonary edema)
Circulatory	Context	Grammar: DVT unlikely – suspected vs ruled out
Neuro	Context	Temporality: 'History of the following complications – stroke' – not picking up historical
Respiratory	Language	Disambiguation: 'Possible PE' – Pulmonary embolism, vs Pulmonary edema
Kidney & Urinary	Language	Disambiguation: 'CKD' client using as CC/KG/Day at ped hospital



Q&A

That's a wrap!

2023 3M Client Experience Summit

The future is now. Let's go.

May 22-25, 2023
Atlanta, Georgia

3M Client Experience Summit for 2023, we are excited to be at a new location and venue at the iconic **Westin Peachtree Plaza Hotel** in the heart of downtown **Atlanta, Georgia**. Mark your calendars for **May 22 – 25, 2023**. Each year, 3M brings together our most valued clients and colleagues to discuss evolving trends in the health care industry, learn about new opportunities in care and technology, share best practices and celebrate successes in innovation. And each year, we keep expanding and adding new and exciting opportunities!

[Learn more here.](#)

Thank you