# INNOVATIONS IN CLINICAL LANGUAGE UNDERSTANDING AUTOMATES DATA EXTRACTION

## Clintegrity 360 | Narrative Search

Automates information extraction, searching patient narrative documentation

### CHALLENGE:

In the era of Meaningful Use, Accountable Care Organizations and Value- Based Purchasing, good clinical data holds enormous value. The challenge is finding efficient and effective ways to identify and abstract key information contained within the clinical narrative. Only then, can providers realize the full promise of their investments in Electronic Health Records (EHRs) and other information technology systems. Intelligent data-mining tools are essential for healthcare professionals who focus on patient outcomes while struggling with cost containment initiatives, growing regulatory requirements and ever-increasing demands for data.

### SOLUTION:

Clintegrity® 360 | Narrative Search is a clinical data-extraction tool built on Nuance's Clinical Language Understanding (CLU) technology. CLU is a software that analyzes written language much like a human does when he reads, gleaning from text relevant information about a patient. After that, CLU structures information into discrete, standardized data. Clintegrity 360 | Narrative Search thus takes unstructured, narrative-based clinical documentation and instantly converts it into patient data that can be searched and utilized for regulatory and other

### KEY BENEFITS

- Unlocks, transforms and understands insights trapped within narrative documentation
- Concurrent review let's review teams take action while patients are still in the hospital
- Allows clinicians to continue using preferred dictation methods
- Web-based application improves user access
- Includes unique and powerful data extraction and on-demand reporting capabilities

### KEY FEATURES

- Automated patient action lists
- On-demand semantic search capabilities
- Ability to export data in multiple formats
- Easy-to-use tool does not require advanced programming knowledge

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clinical initiatives. Because the data can now be accessed, clinicians can continue to dictate using their preferred method of documentation while, quality control, patient tracking and other vital functions can be powered with real time, detailed patient data.

## LET QUALITY AND SAFETY TEAMS MAKE A DIFFERENCE

Clintegrity 360 | Narrative Search supports searches within dictated clinician notes and identifies clinical findings, such as problems, medications, allergies, and smoking history, risk factors or early signs of complications. Concurrent patient action list can be used to monitor patients for various conditions such as pressure ulcers, stroke or pneumonia. Quality teams access the information seamlessly, allowing them to quickly correlate fresh data to specific initiatives to better manage patients at risk.

## POWERFUL REVIEW CAPABILITIES

Clintegrity 360 | Narrative Search's data extraction and on-demand reporting capabilities are unique and powerful. Reviewers can easily create queries in seconds without the need to learn complex programming languages and staff can expand and accelerate document review. Clintegrity 360 | Narrative Search can process available narrative patient documents and extract query-specific data elements, which expand reviews beyond what manual processes currently allow. Groups of patients can be observed retrospectively or concurrently, based on their detailed clinical profile, specific risks or presentations.

## HOW IT WORKS

Physicians document patient information using their preferred workflow, dictating or typing the EHR or through the transcription platform. Dragon Medical 360 | Narrative Search takes unstructured, narrative-based notes and converts

them—in real-time—into actionable, discrete data. Data then become available for searches and queries. Queries can be created, stored, shared and maintained by users. Clintegrity 360 | Narrative Search processes each document individually, to create patient lists that flag patient's documents as having met or not met the query parameters. Unlike retrospective, academic, analytical databases, Clintegrity 360 | Narrative Search enables concurrent and clinically actionable searches.

Clintegrity 360 | Narrative Search is optimized for the Clintegrity 360 | eScription platform, and it is designed to work with transcribed documents from all sources.

## ABOUT NUANCE COMMUNICATIONS

Nuance Communications is the market leader in creating clinical understanding solutions that drive smart, efficient decisions across healthcare. As the largest clinical documentation provider in the U.S., Nuance provides intelligent systems and services that improve the entire clinical documentation process—from the capture of the complete patient record to clinical documentation improvement, coding, compliance and appropriate reimbursement. More than 500,000 physicians and 10,000 healthcare facilities worldwide leverage Nuance's award-winning, voice-enabled clinical documentation and analytics solutions to support the physician in any clinical workflow and on any device.

**To learn more about how Nuance Healthcare can help you improve financial performance, raise the quality of care, and increase clinician satisfaction, please contact us at 866-748-9537 or visit www.nuance.com/healthcare.**