

We Are

# **HealthPointe Solutions**

Turning data into actionable knowledge for better health outcomes



### **Solving Medical Record Intake Process**

Use HPS NLU and interoperability to seamlessly connect key insights to evaluating physician

### The Challenge



- Lack of automation of medical record processing slows the ability to delivery key health insights to provider and patient.
- Many records once in a structured format require manual review and creation of summary of key findings.
- While some strides have occurred to automate intake medical records, too many records still require manual intake processes.

### The Need



- Turn records into a strategic asset: drive quick insights and better outcomes.
- Automation Percentage: Continue to leverage recently electronic intake work to assist with automated medical record summary
- Completeness: Pull fuller information from the medical record that is meaningful to the physician
- Reduce error rate of manual review



# Value: How does Healthpointe Solutions solve?

Healthpointe Solutions can simplify and reduce the administrative burden of medical record processing by providing tools that take nonstructured charts and turning them into summarized, actionable insights for patient care.

# A Solution Impact

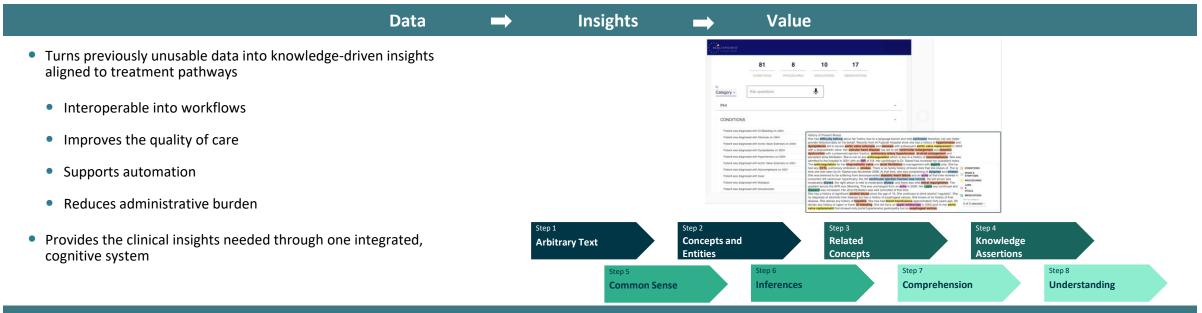
Automated the transition of paper, PDF and FAX charts to summarized, actionable clinical insights.



- Reduce the need for IT staff, coders, nurses to translate non-electronic charts into useable clinical recommendations.
- Get the most out of patient visits thru organized visits
- Maximize program compliance by aligning care given to Payer VBC programs
- Ops: Reduce organizations effort to bring in and deliver clinical findings.

## **Healthpointe Solutions Chart/NLU Processing**

A Cognitive Artificial Intelligence approach to understanding context of unstructured health information for workflow optimization



#### **End User and Key Highlights**



#### **Healthcare Practices**

#### Convenient

- Near real time processing
- Clinicians and coders can see enriched datasets and marked-up notes
- Enriched clinical documentation in real time



#### **Providers**

#### **Efficient**

- Actively monitors clinical documentation
- Provides full explainability of clinical note interpretation
- Gives an accurate picture of consumer's clinical profile



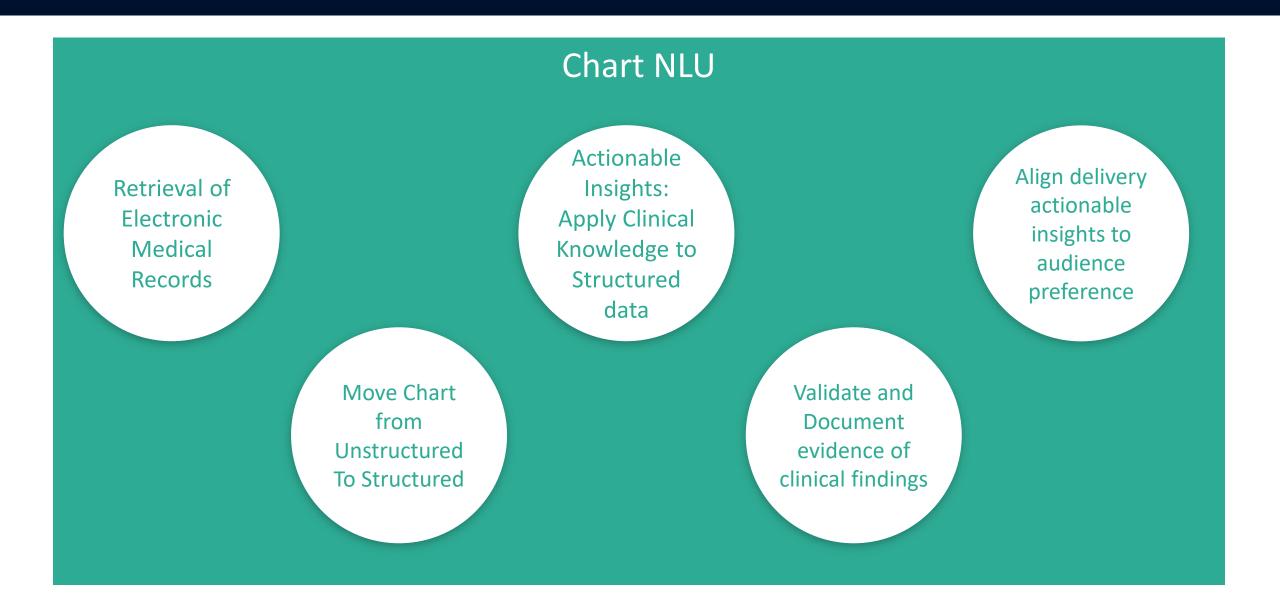
#### **Patients**

#### Supportive

- Provides context and common sense to clinical notes
- Reduces administrative burden
- Personalized educational resources

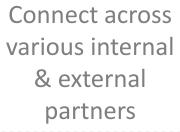


# Where does Healthpointe Solutions find the efficiencies?



### **Chart NLU Value**





Advanced data privacy empowers sharing of patient health records and personalized actions across various experiences.



**Data Enrichment** 



Consistent Clinical Excellence



Streamline Operational Maintenance



Streamline Technical Maintenance

Enables a reviewer to get to a comprehensive more usable medical record helping to identify the right patient care at the right time.

Support clinical practice transformation and measurement by integrating AI into workflow moving from descriptive analytics to prescriptive analytics.

Reduce administrative costs and improve experience by reducing data latency, improve quality, and standardizing analytics and insights in workflow.

Reduce development, integration, and maintenance costs with a common, standards-based clinical canonical model and API layer.



## 3 Pillars of Efficient Medical Chart Processing

### Ongoing Drive to Administrative Excellence



#### **Natural Language Understanding**

Unstructured Data (PDFs, Scanned Documents, etc.) to
Useable, Structured Data

- Convert unstructured data (PDFs, Faxes, etc.) to useable data
- Highlight key phrases using clinical knowledge base of health.
- Reduce the administrative pain of data teams
- · Reduce and clinical reviews identify key

#### **Streamline Operational Maintenance**

- Go beyond hyper-texted identification of NLP to provide clinical context
- · Summarized, actionable clinical enrichment
- Allow focus on clinical teams to drive to complex and outlier cases.



#### **Clinical Excellence**

#### **Quickly Enrich & Identify Key Clinical Insights**

- · Leverage clinical knowledge base of health
- Move from descriptive analytics to prescriptive analytics
- Enrich clinical data
- · Consistent clinical recommendation

### Simplify and document clinical summary of medical record

- Data enrichment to improve decision support
- Speed of return to insight
- Actionable Clinical Highlights



#### **Clinical Interoperability**

### Many incoming medical record data formats and structures

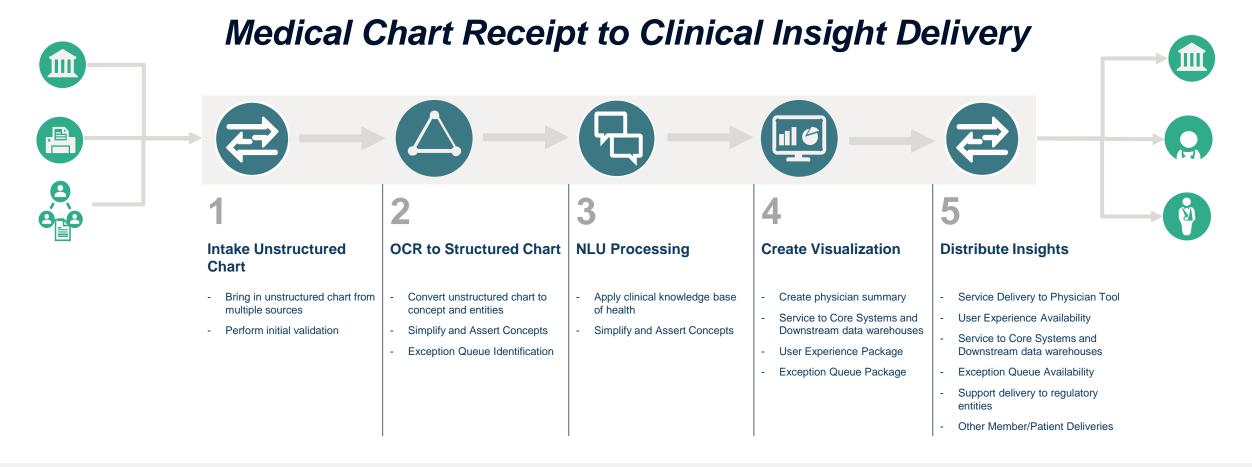
- Reduce the IT burden of managing many incoming unstructured data formats
- Increase percentage of electronic medical records received.
- Deliver summarized and enriched data to multiple downstream entities

#### **Streamline Technical Maintenance**

- Increase percentage of automated intake of records
- Diminish the burden of data teams managing integrations.
- Reduce development, integration and maintenance costs of IT team.
- Return focus of IT teams to strategic initiatives



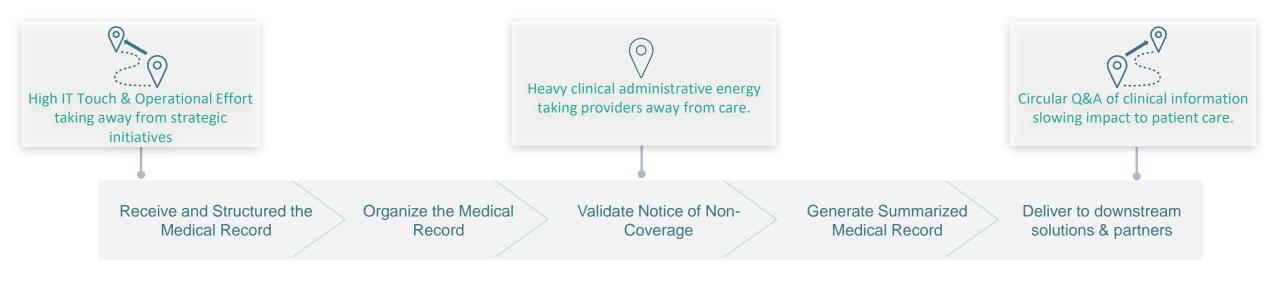
### **Medical Chart Process Flow**





# Medical Record Processing Program Scope

### Simplify and reduce the administrative burden of medical record processing





### Quick Launch Plan- Iterative Value at each Phase

### Launch Guiding Principles



Continuously advancement of automation & simplification



Value achieved from previous phase funds the next phase.









# **NLU Solution Visuals**

### Digital Health Treatment Cycle – Condition and Wellness Focused



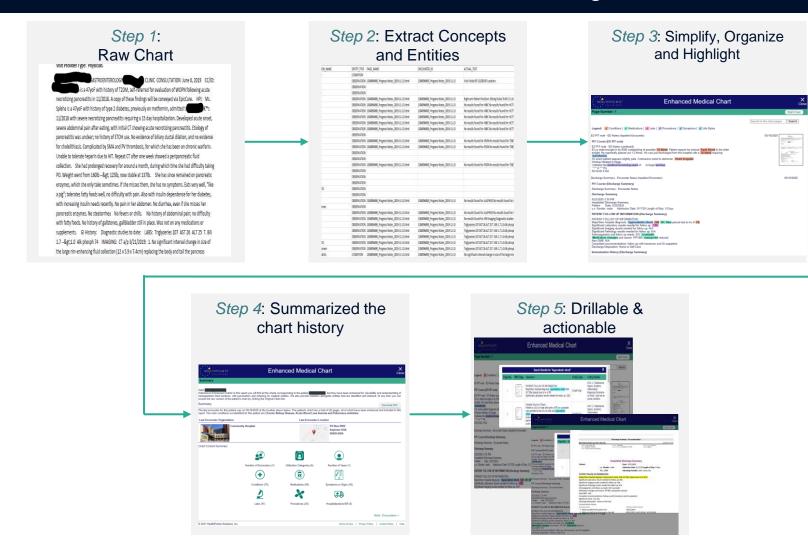


## What is Natural Language Understanding (NLU)

Step-by-step process from Unstructured Data to Summarize Medical Chart using NLU

Goes beyond simple hyper-texting key non-clinical phrases...

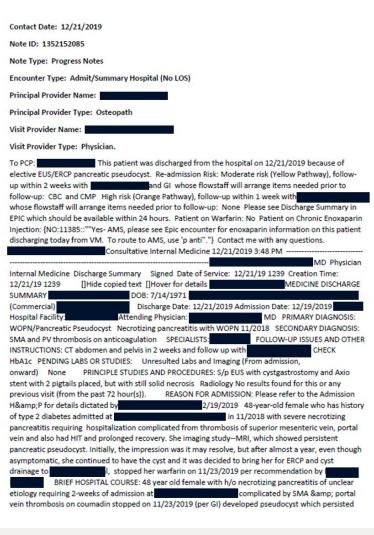
Provide meaningful clinical context to summaries without the administrative burden.





# Step 1: Ingest medical charts (pdf/others)

### Raw Chart





## Step 5: Organize and Highlight

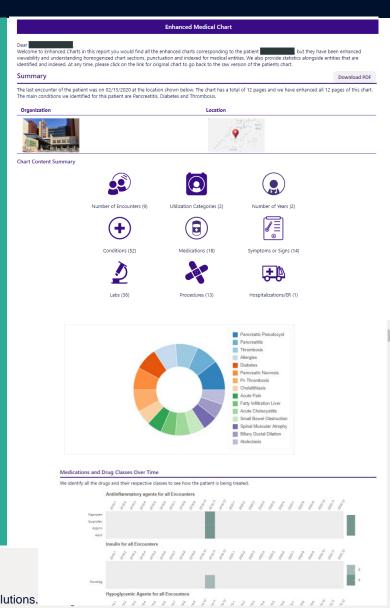
# Visualize the Chart

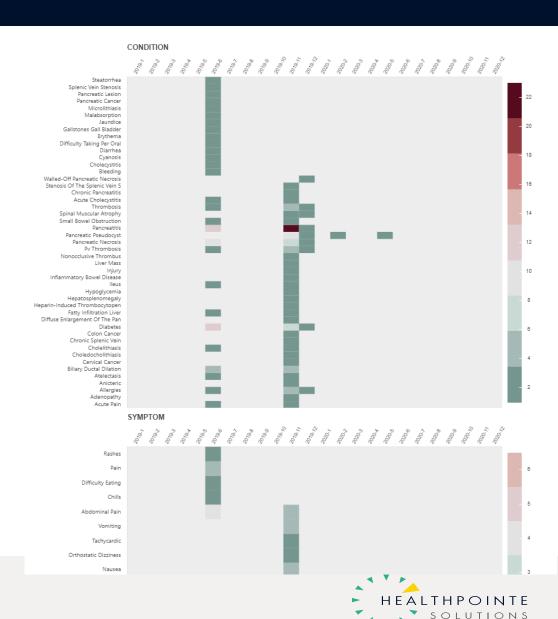




### Step 7: Summarized Enhanced Charts

Enrich and report the chart history







# Thank you.