

## BACKGROUND

The Kansas Health Information Network is a physician-led HIE incorporated in 2010 and managed by the Kansas Medical Society and the Kansas Hospital Association. KHIN has over 900 member entities in six states that are actively sharing data across the KHIN network.



The clinical data exchanged “in the real world” is messy:

**Wrong terminology is used to structure data**

**Terminologies are too complex for simple queries**

**Clinicians enter free-text rather than structured data**

**Values aren't in right units and interpretations omitted**

**Variation due to clinical practice and technology used**

## OBJECTIVES

Leverage scalable technology to improve data quality:

- Cleanse, normalize, and enrich clinical data
- Enable data for use in population health analytics

## STRATEGY

Deploy Diameter Health's Fusion platform to automate the clinical data quality process:

- Translate common vocabularies
- Normalize and classify clinical data
- Text mapping for high volume codes
- Conversion and normality inference for numerical data
- Targeted Natural Language Processing

## RESULTS



**Improvement in data quality supports expanded clinical analytic initiatives**



**Millions of clinical documents automatically processed**



**Confirmed significant systemic differences between Electronic Health Records (EHRs) and individual practices**

“Diameter Health technology has been a game changer in our ability to transform member data into actionable analytics.”

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