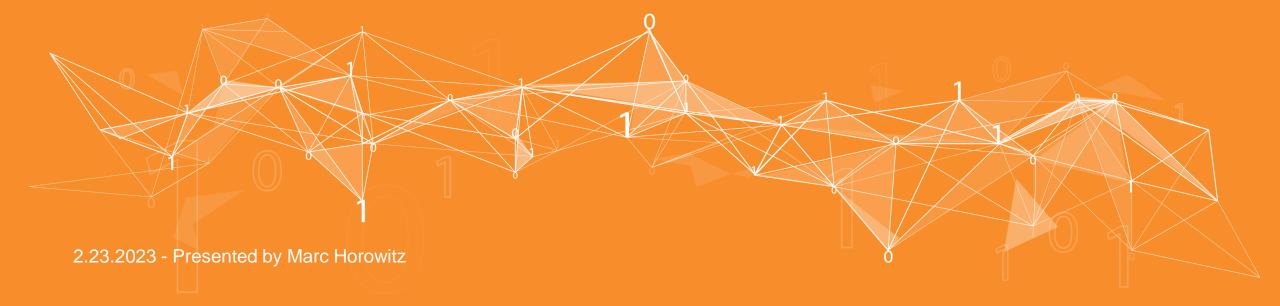
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Al for Revenue Cycle:

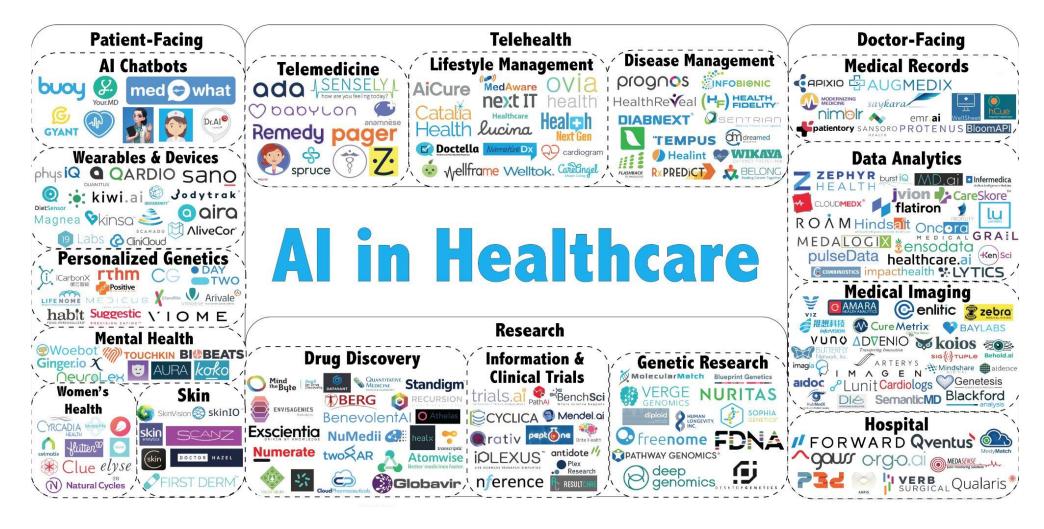
Closing the healthcare revenue gap with Clinical Natural Language Processing (CNLP)

HFMA Winter Conference - Houston, TX





The market for AI solutions is accelerating rapidly



Healthcare is at a critical juncture

Workforce **Healthcare** is challenges more costly to persist. deliver. - The great retirement, - Workforce issues, burnout, workers exiting the supply-chain price profession. 1 in 5 workers increases & rising cost of quit during Covid. drugs. **Health system** margins under A healthcare data intense pressure. tsunami... - 50% of hospitals with a -- 30% of the world's data neg margin in 22, as growth - Growing at 36% CAGR in expenses outpaced revenue increases.



Real World Evidence

Population Health

Rare Disease









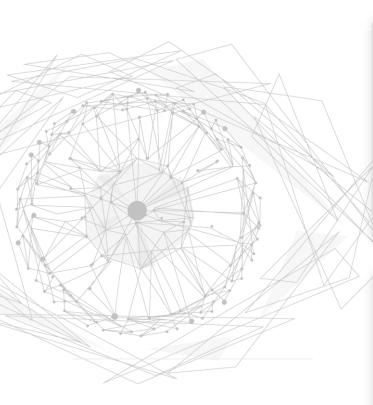


CNLP Solutions Spanning 4 Diverse Sectors



Clinical Natural Language Processing (CNLP)

From text to computable meaning



Clinical stories

- Discharge summary
- Visit summary
- Physician notes
- Radiology report

EMR is 80% unstructured data

- NLP is a specialized kind of Al
- Linguistic analysis of free text looking for key concepts

Specialized tools required

Misspellings, abbreviations. uncertainty, negation, must be analysed to deliver valuable output

Healthcare is not a simple domain

- "The patient denies breathlessness"
- "Pt has a cough"
- "FH of IHD"

High accuracy & speed

- Decades of R&D have delivered reliable operational systems at scale.
- From hours of clinical time to milliseconds of machine time.
- System extracts computable data from millions of documents.
- RCM team time saved and reach extended.

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OUR EXPERTISE AND KNOWLEDGE

Patented core IP developed over **10 years of R&D**



1.5 billion possible SNOMED expressions representing clinical ideas and concepts



1 million documents per hour processed



4 billion words of medical English used to train the system



500,000 synonyms, acronyms and mis-spellings understood by CLiX®

THE RESULTS

350% more patients at risk were identified



Deep phenotyping for rare disease completed in approx. 1 minute



Equivalent to **100 clinician years** of manual review

10x increase in cohort yield



Rapid roll out 13 hospitals in 12 weeks in a major US health system

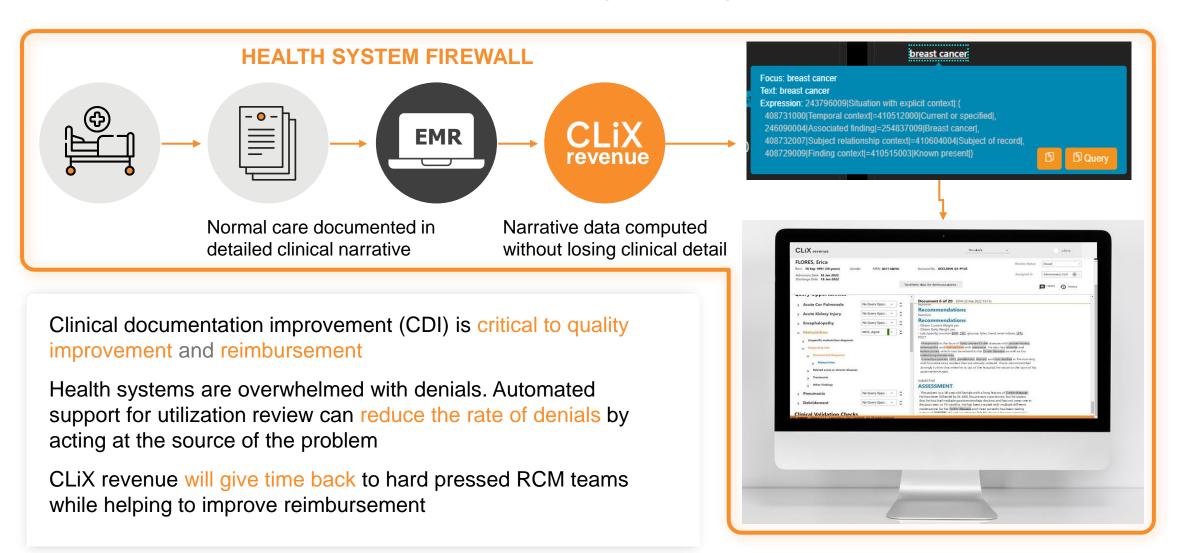


Co-morbidity review for CDI 20 to 30 times faster with CLiX®



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CLiX revenue complements existing coding solutions

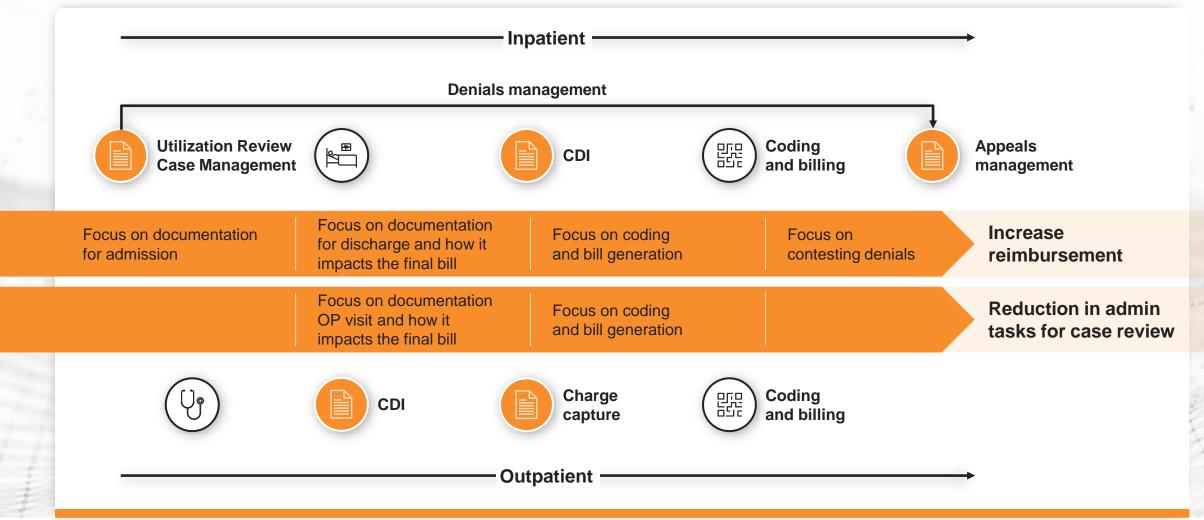


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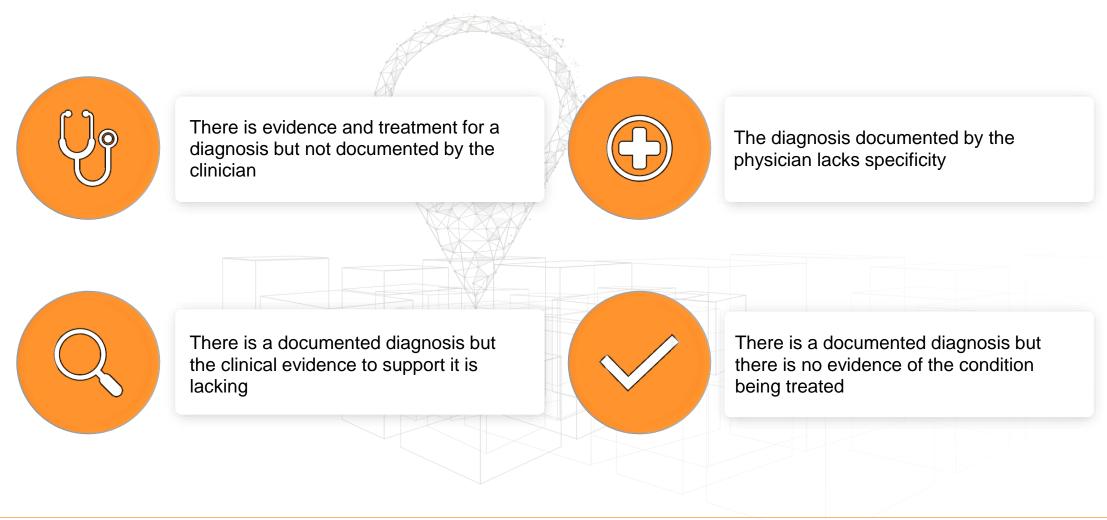


Introducing CLiX revenue

CLiX revenue – impact on RCM process



Common documentation deficiencies



How does CLiX revenue help?

Clinical Documentation Improvement: fast and reliable interpretation of electronic clinical narrative to:



Raise a 'Physician Query' to address documentation gaps which might prevent optimal CC/MCC coding => DRG grouping:

- When a specific clinical diagnosis is documented but no indications documented to support the diagnosis
- When there are clinical indications of a specific diagnosis, but that diagnosis is not explicitly documented

Raise a 'Clinical Validation Check' with ICD10 coders – closing the loop with the coding process when all the diagnosis and supporting documentation lines up

Physician Office Charge Capture

2

Support for identification of missed charges under Fee for Service arrangements by identifying evidence in clinical narrative where bill line items are missing

Denials Prevention

3

Support of pre-authorization for admission to avoid downstream clinical denials by ensuring that e.g. medical necessity for admission is fully documented

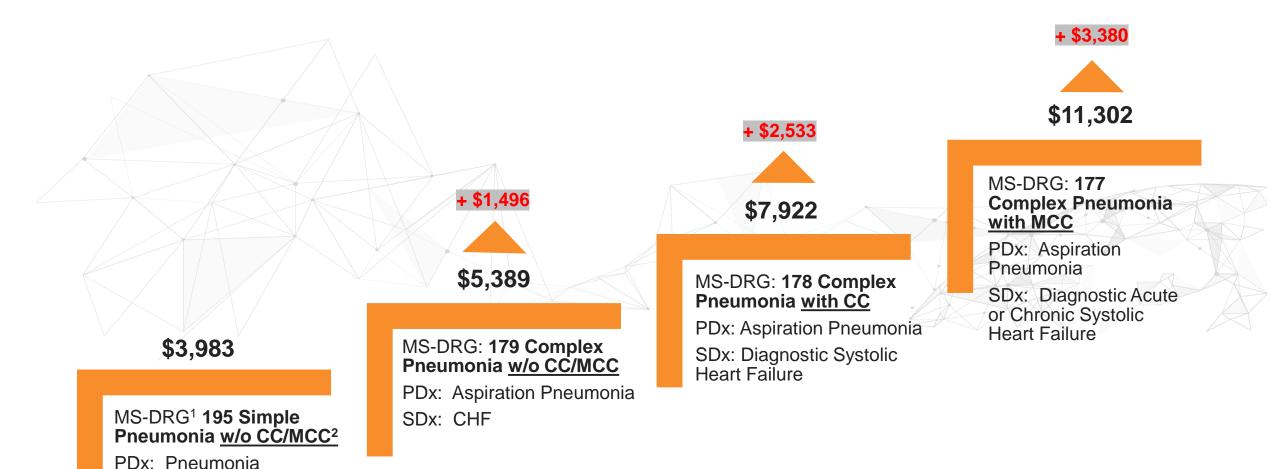
Retrospective Clinical Appeals Management



Support for appealing clinical denials based on finding evidence in the documentation to support an appeal – or to quickly accept a denial and save valuable time and effort

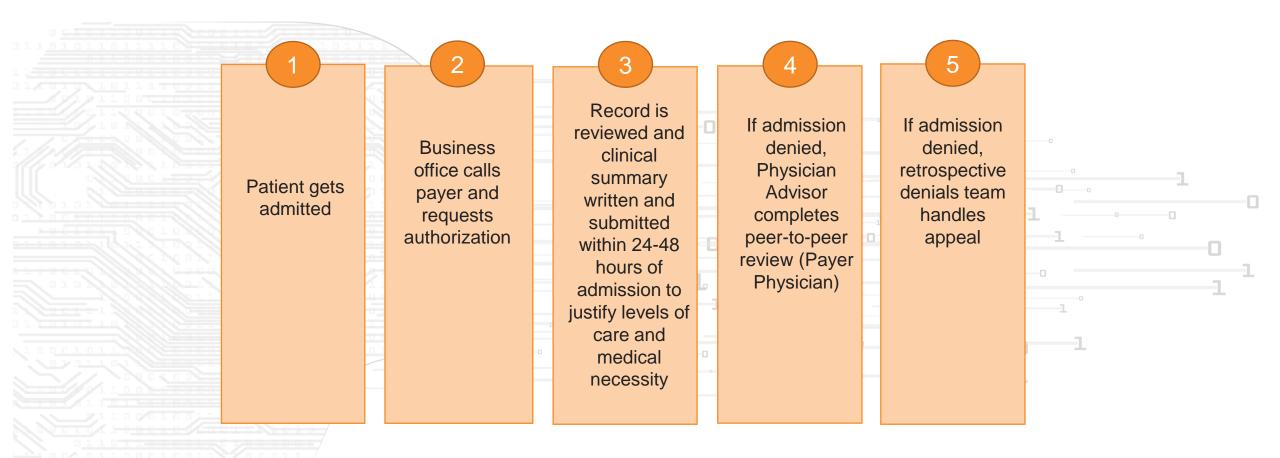
SDx: CHF

Significance of complete clinical information



- 1 Medicare Severity Diagnosis Related Group
- 2 Complication or Comorbidity / Major Complication or Comorbidity

Prospective denials prevention



CLiX revenue

- Enhance clinical documentation
- Improve charge capture
- Increase denials management throughput
- Boost productivity of revenue cycle capture





Search millions of documents in hours
Produce insights not previously possible for large datasets using manual techniques.

Illustrated business impact

Use CLiX revenue for four workflows

Clinical Documentation Improvement



- Team of 64 Clinical Documentation Specialists (nurses) that support these 9 hospitals
- GOAL: Generate an additional \$21 million in new revenue from CDI efforts.

Clinical Documentation Improvement for Complex/Specialist



- High throughput of residents
- Inaccurate documentation of complex and specialist care
- GOAL: Use automation to support residents to get the documentation correct first time.

Denials Prevention Unit



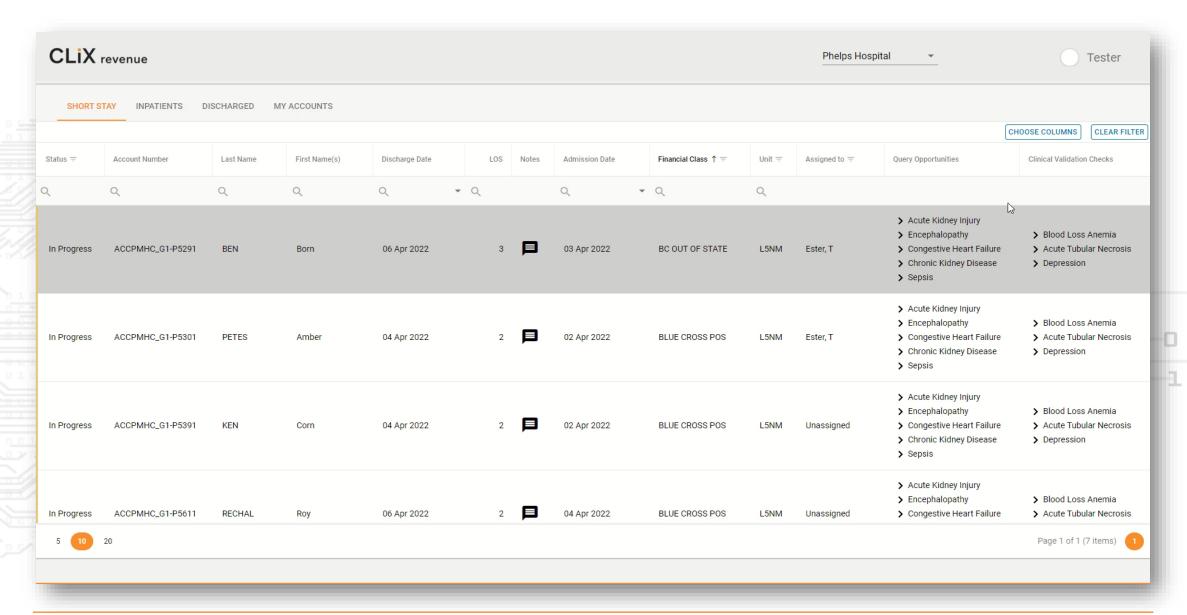
- Purpose is to get authorization for admission based on eligibility guidelines and avoid downstream denial
- Team of 35 nurses that perform "clinical submissions" plus
 5 physician advisors for peer-to-peer reviews
- 1,500-1,600 admissions for pre-authorization
- GOAL: Eliminate need to hire 5 nurses and improve the overall quality of the clinical submissions.

Retrospective Appeals Management



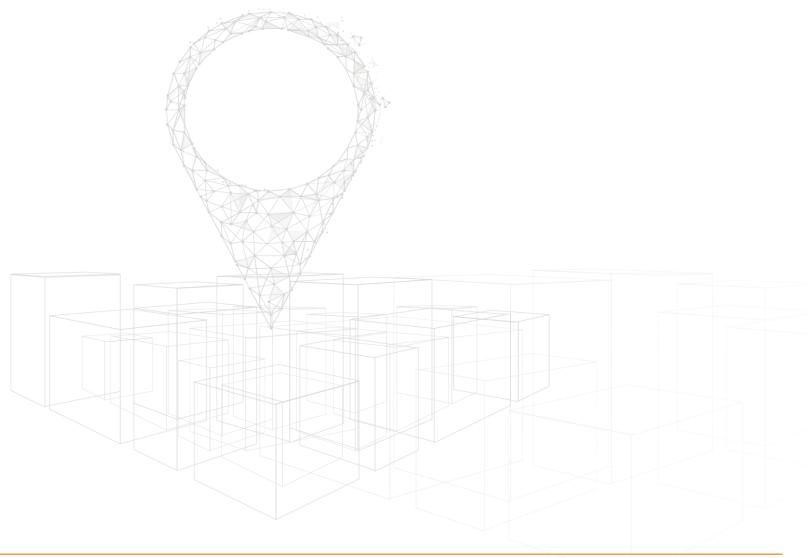
- Team of 40 nurses that write retrospective appeal letters plus outsourcing
- Nurses do 5 appeals per day (appeal 100% or ~1,000 appeals per week).
- GOAL: Eliminate outsourcing of appeals writing.





Q&A

Any questions...



Thank you

Clinithink

Clinithink Inc.

555 Northpoint Center East Alpharetta, GA 30022

T +1 978 296 5275

E info@clinithink.com

www.clinithink.com