

# EMERSE: an easy-to-use, self-service search engine and chart review tool for EHR notes

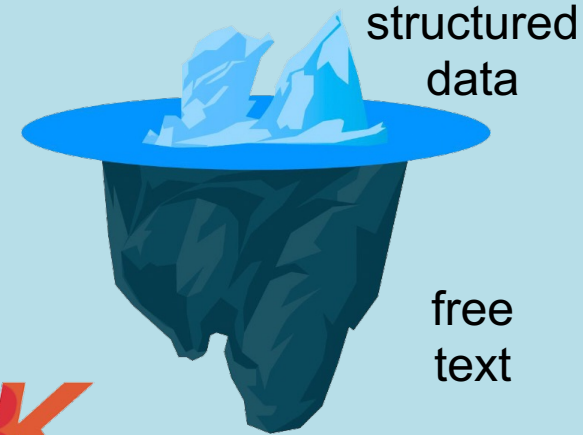
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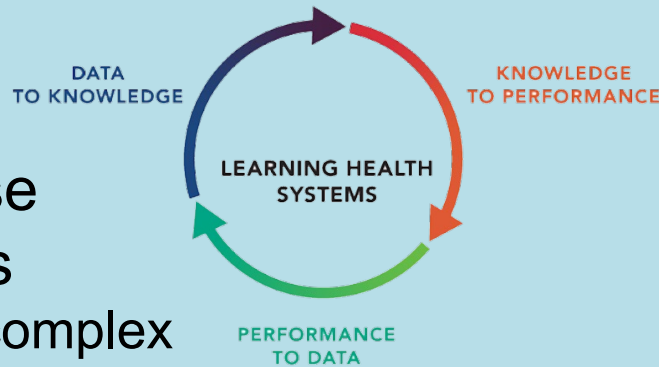
# Background



- ~80% of electronic health record (EHR) data are in *free text*
- Free text is important for the *data-to-knowledge* component of an LHS
- Free text is challenging to use for non-technical researchers
  - traditional NLP systems are complex



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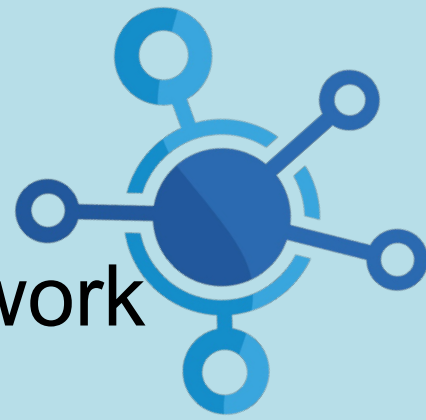
**em****erse**  
ELECTRONIC MEDICAL RECORD SEARCH ENGINE

# The EMERSE solution



- Free text search and text processing
- Easy to use, high user satisfaction
- Tailored for EHR data
- Enterprise grade, easy to support
- Configurable with roles/privileges to control access
- Assists with cohort identification, data abstraction, research, QA/QI, operations, and more
- Used at 7 academic medical centers, 8 more installing
- Used in over 600 papers and abstracts
- Free, open source

# More coming



- EMERSE Research Informatics Network
  - Real-time, secure cross-site queries
- Embedded NLP for negation, uncertainty, subject, named entity recognition/UMLS concepts

the lesion revealed **scirrhous carcinoma**. A chest computed tomography (CT) scan d abnormal shadows in both upper lung fields. The patient was then referred to our tive workup and treatment. She had no history of cough, sputum, or dyspnea. Our

# Join our community



- EMERSE Community Meetings
  - Open to everyone, everywhere
- Interested in learning more? Contact us to schedule a time with your team for:
  - Implementation planning
  - Discussions about research strategies
  - Live demonstrations
  - Training
- [emerse-team@umich.edu](mailto:emerse-team@umich.edu)
- Team: Lisa Ferguson, David Hanauer  
Kellen McClain, Guan Wang

LEARN MORE

