EMERSE 101

April 10, 2019

These slides can be found at:
http://bit.ly/2OZYUDy

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- ## What is it?
  - A search engine, kind of like Google
  - Easy to use

- ## What <u>isn't</u> it?
  - It's not natural language processing (NLP), but your task may not actually need full NLP
  - Hard to use

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- ## What's in it?
  - Free text notes from all of our Michigan Medicine patients (~2. 4 million)
    - History & Physicals, Progress notes, discharge note, outpatient notes, radiology report, pathology reports, etc.
    - CareWeb and Michart data (about 1995 – present)

- ## What's <u>not</u> in it?
  - Structured data
    - discrete lab values
    - vital signs
    - billing codes
  - For structured data, use DataDirect: **datadirect.med.umich.edu**

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- Basic functions:
  - Find a cohort of patients across all of the patients
    - Then save the list to look through in more detail
  - Highlight terms across a list of patients
    - From an uploaded list (or pasted in) of MRNs
    - From a list from DataDirect
    - This is basically like a computer-aided chart review

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- ## Who can use it?
    - Basically anyone with MiChart access
    - BUT, you have to have a valid reason to use it:
        - Research
        - Operations
        - Quality Improvement
        - Education
        - "Curiosity" is not a valid reason, unless that curiosity is related to a review preparatory to research

    All usage is tracked and audited

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- How to get access:
  - Option 1: Create account through MiChart
    - Open up a patient
    - Click on More in bottom left corner
    - Navigate to Other Clinical Systems → EMERSE
    - You will be logged in and the patient in MiChart will be moved over automatically
    - After this, you can either login through MiChart or simply visit https://emerse.med.umich.edu

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- How to get access:
  - Option 2: Data Office can create account, preferred option for research. Prerequsites:
    - Level-2 password
    - PEERRS training
    - IRB approval
    - Complete access request form (https://www.umms.med.umich.edu/data-office-requests/accessrequests)
    - Data Office MLearning training (training link is sent after request form is submitted)

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- Important contact information

  - All things general EMERSE usage related:
    - David Hanauer, hanauer@umich.edu

  - All things EMERSE research access related:
    - Arika Owens, arikao@med.umich.edu

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- EMERSE website:

  emerse.med.umich.edu

  This is behind the UM firewall, so if you're not at the medical center you will need the VPN to access it

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- Where can I find more information?

project-emerse.org

User guide:

http://project-emerse.org/documentation/user_guide.html

Video tutorials: http://project-emerse.org/videos.html

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