

CSTE WILDFIRE AND SMOKE SYNDROMIC SURVEILLANCE DEFINITION PROJECT

Workgroup Meeting 5

March 19, 2021

AGENDA

- Review of Timeline
- NSSP Text Mining
- Member Validation Results
- Draft Review Logistics
- Next Steps

PROJECT TIMELINE

November 2020

- Initiate Workgroup
- Solicit Definitions

Dec 2020

- Identify Definitional Commonalties

Jan 2021

- Discuss New Definitions

Feb 2021

- Finalize New Definitions
- Validation Methods

Mar 2021

- Validation (Members)
- Draft Guide (Consultant)

Apr 2021

- Document Review (CSTE, CDC, Members)

May 2021

- Present Findings

Jun 2021

- Finalize Guide

Jul 2021

- Project End



Thank
you!

NSSP TEXT MINING REPORT: WILDFIRE/SMOKE

11470

Total Number of Encounters

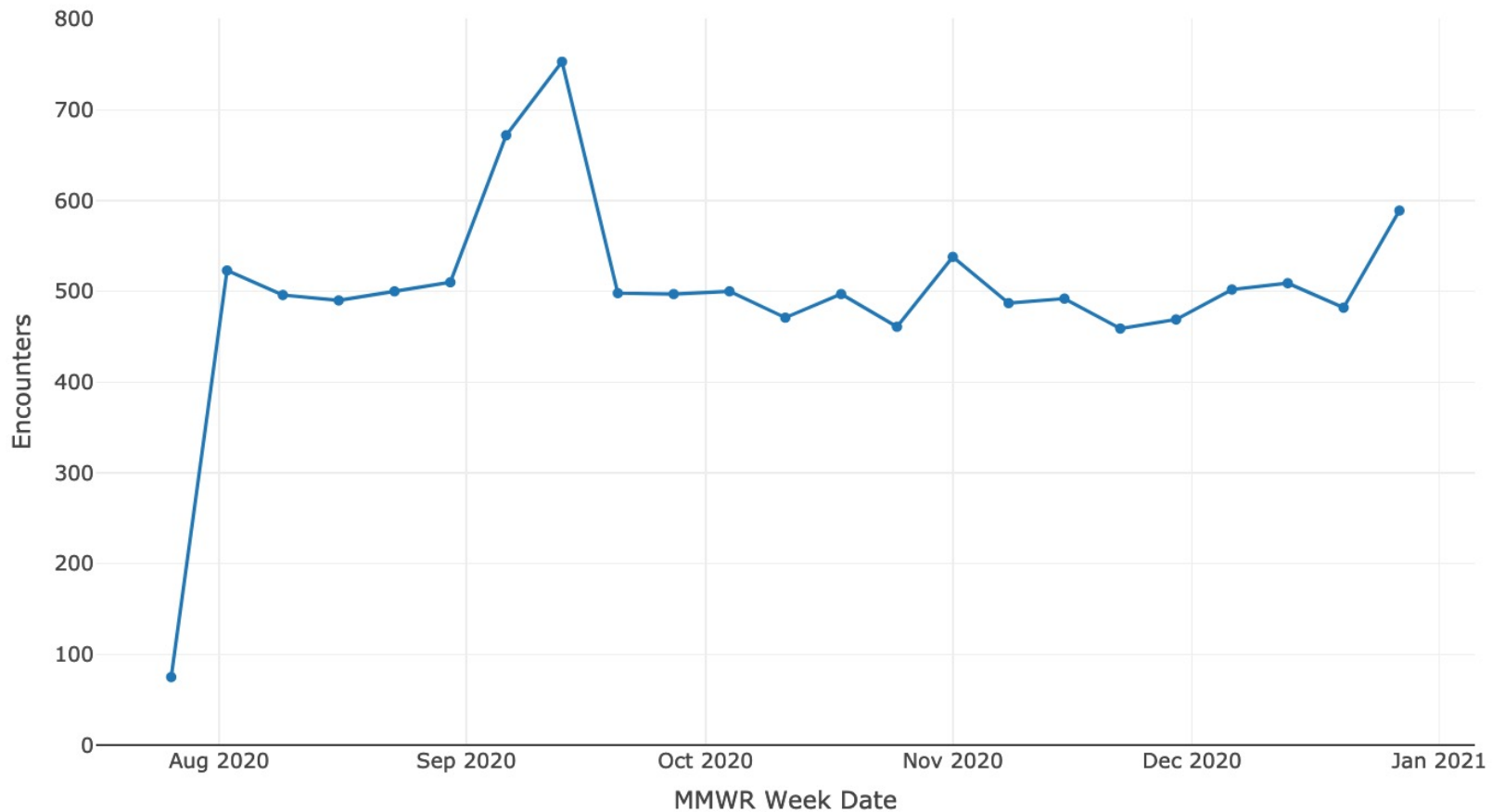


July 26, 2020 to December 27, 2020

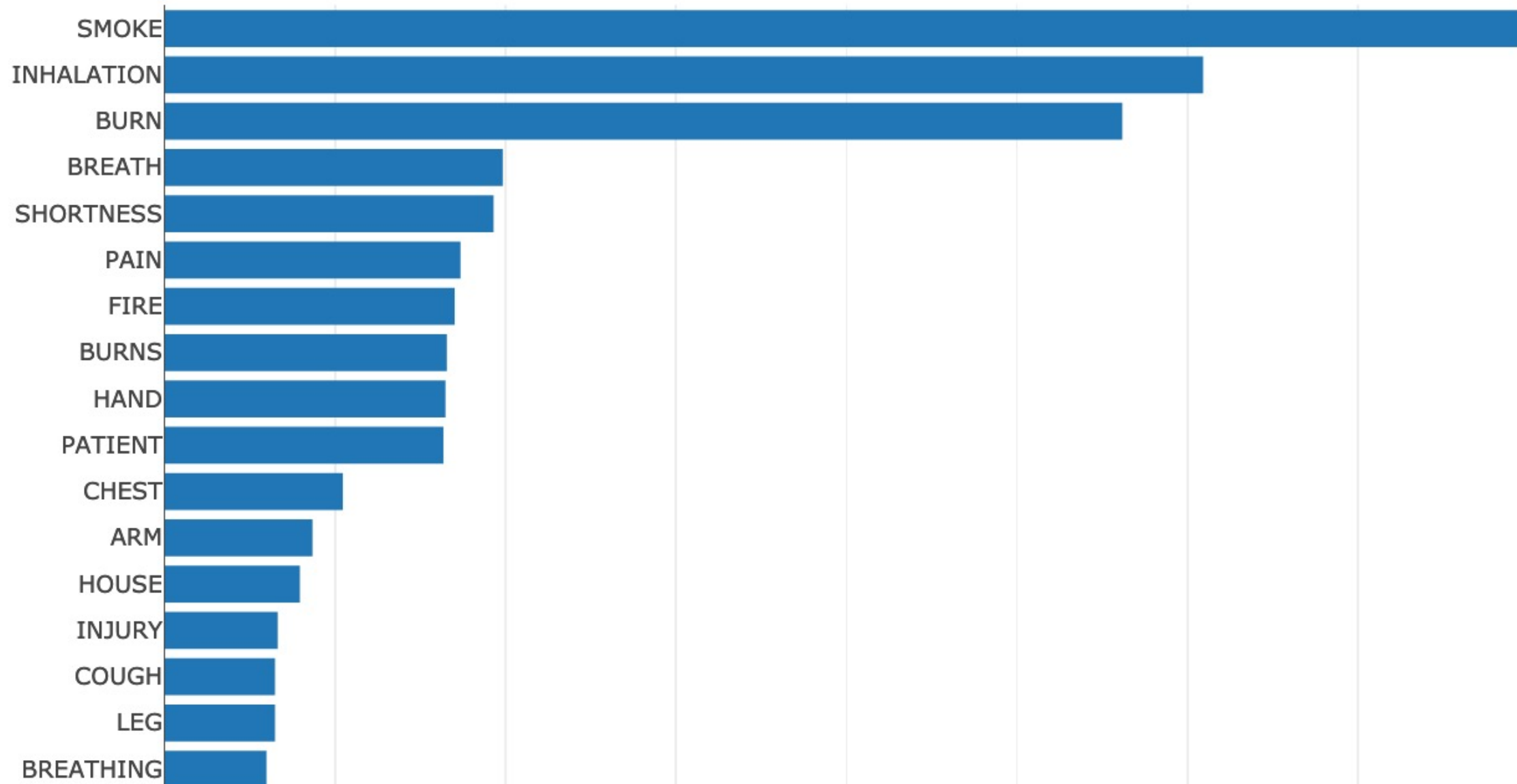
Date Range



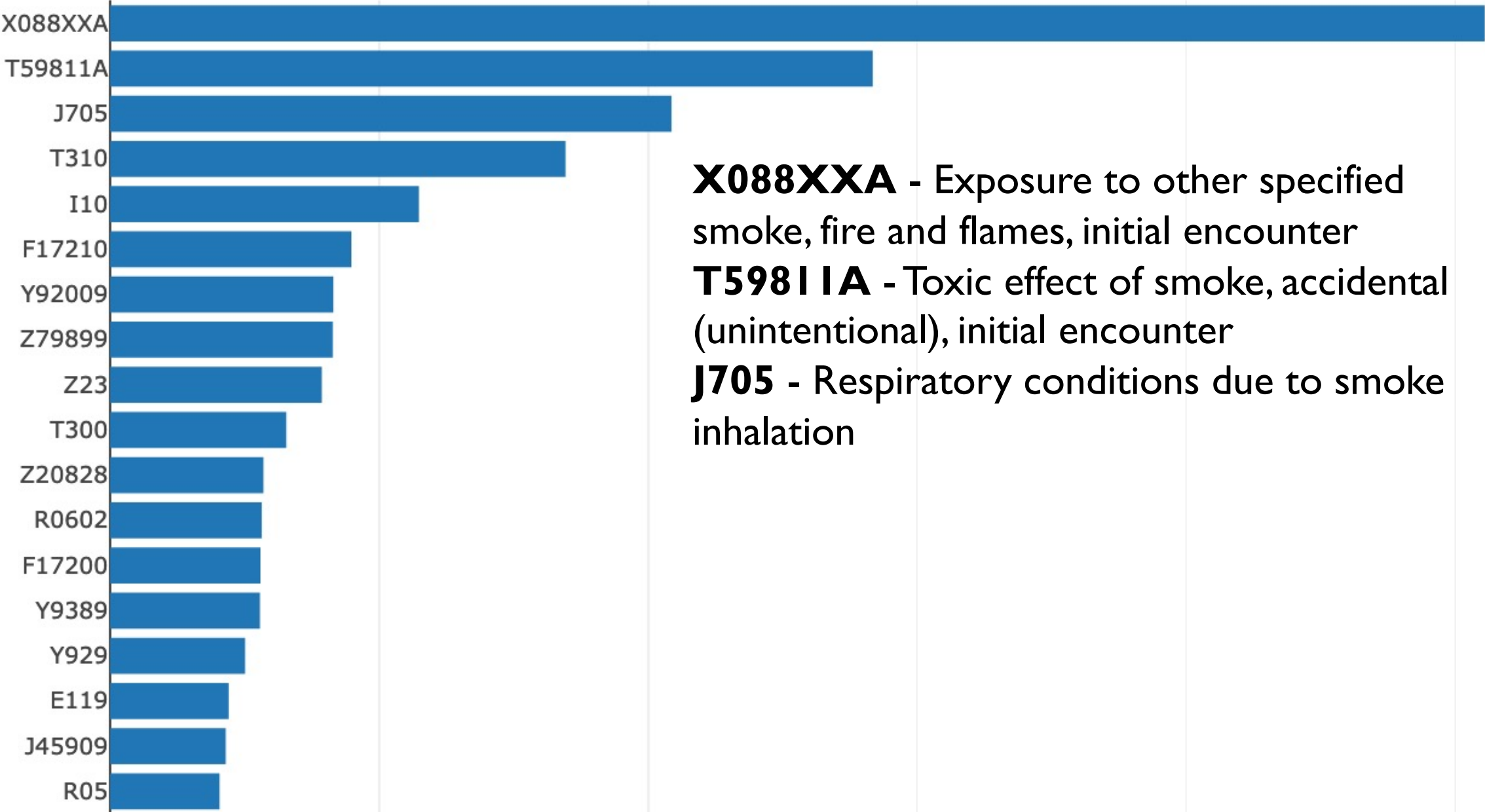
Total Weekly Volume of Encounters from Query Validation Data Source -ESSENCE



Top 200 Single Term Frequencies of Chief Complaint Parsed



Top 200 Single Term Frequencies of Discharge Diagnosis



X088XXA - Exposure to other specified smoke, fire and flames, initial encounter
T59811A - Toxic effect of smoke, accidental (unintentional), initial encounter
J705 - Respiratory conditions due to smoke inhalation

NSSP TEXT MINING REPORT: RESPIRATORY

1480273

Total Number of Encounters

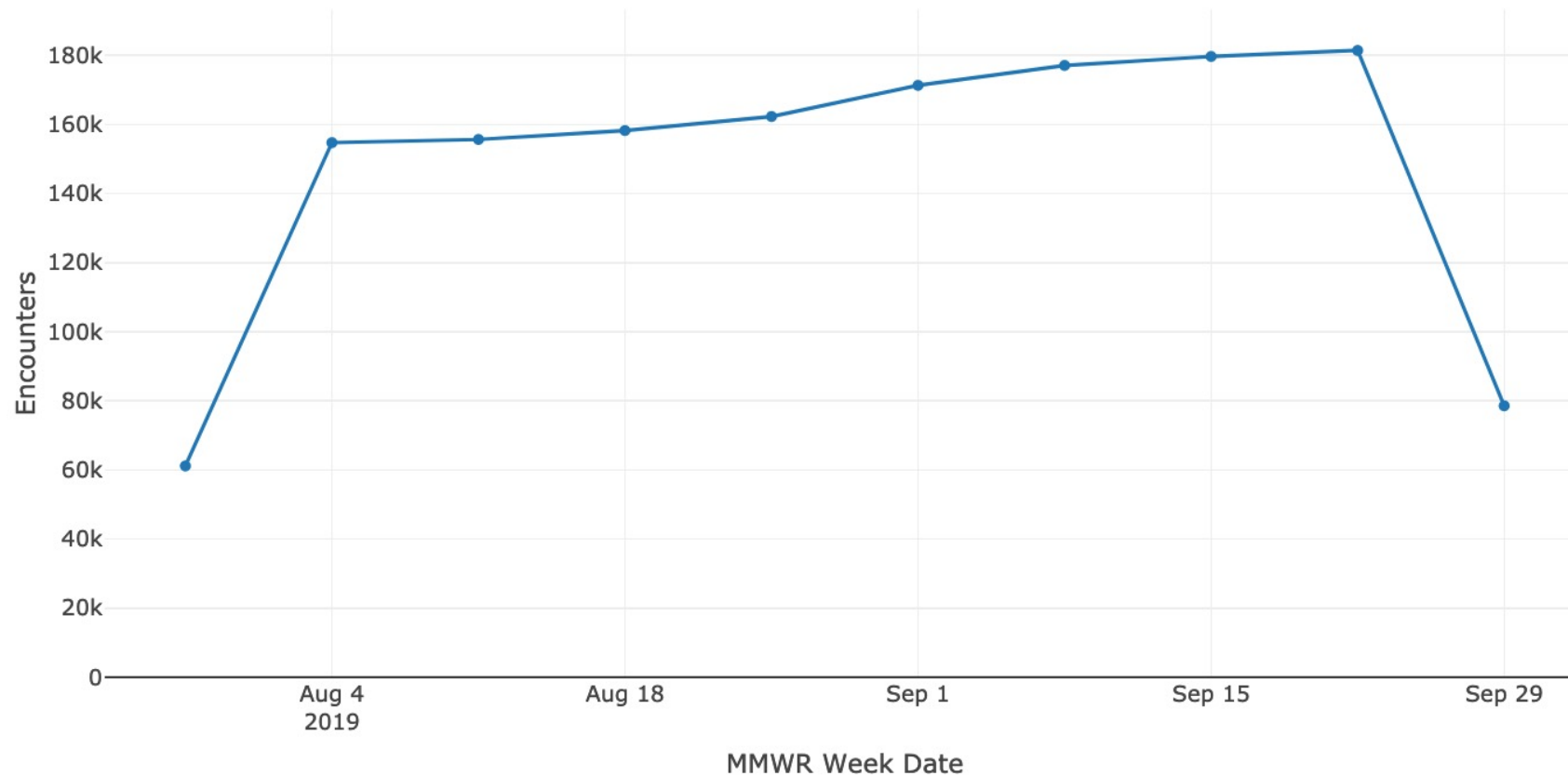


July 28, 2019 to September 29, 2019

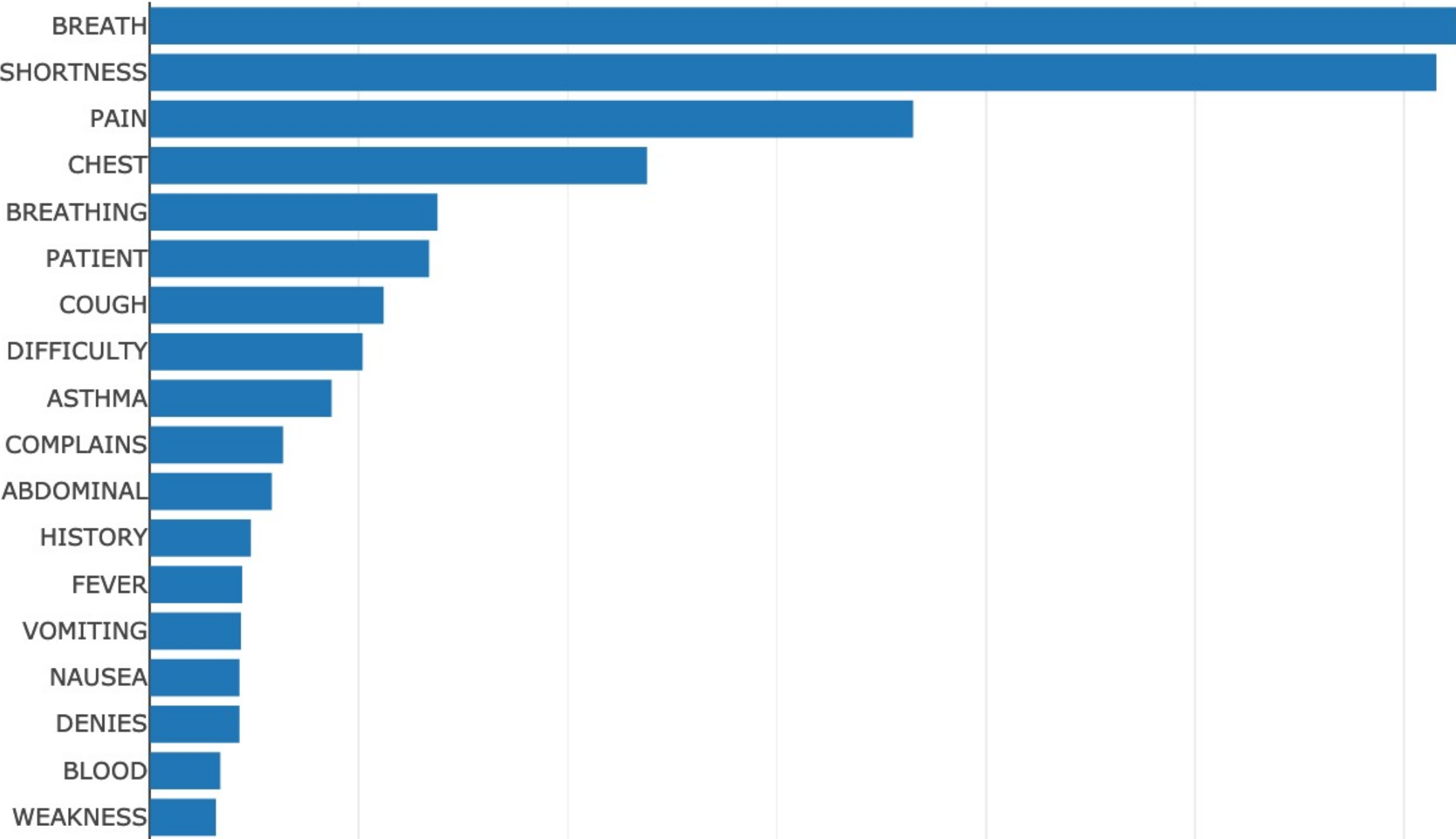
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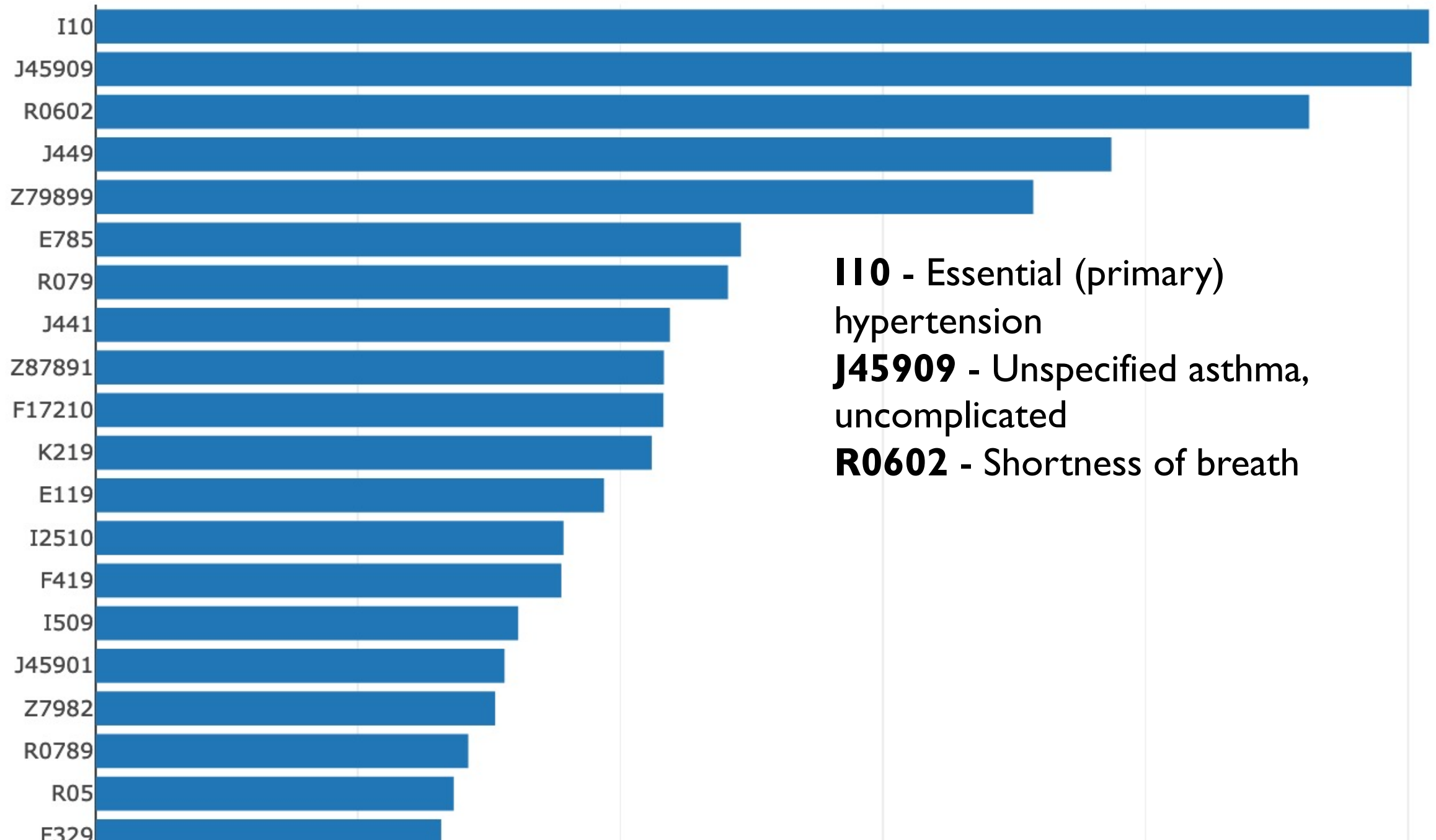
Total Weekly Volume of Encounters from Query Validation Data Source -ESSENCE



Top 200 Single Term Frequencies of Chief Complaint Parsed



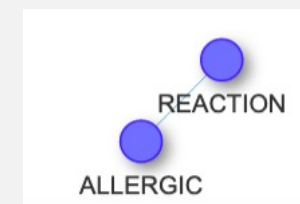
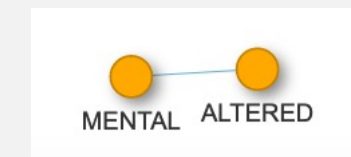
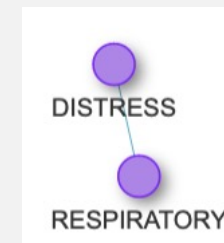
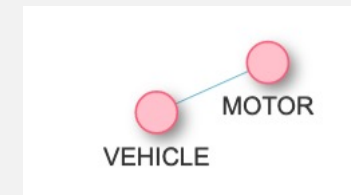
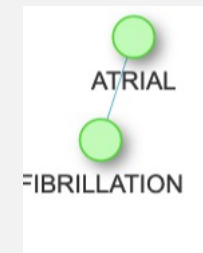
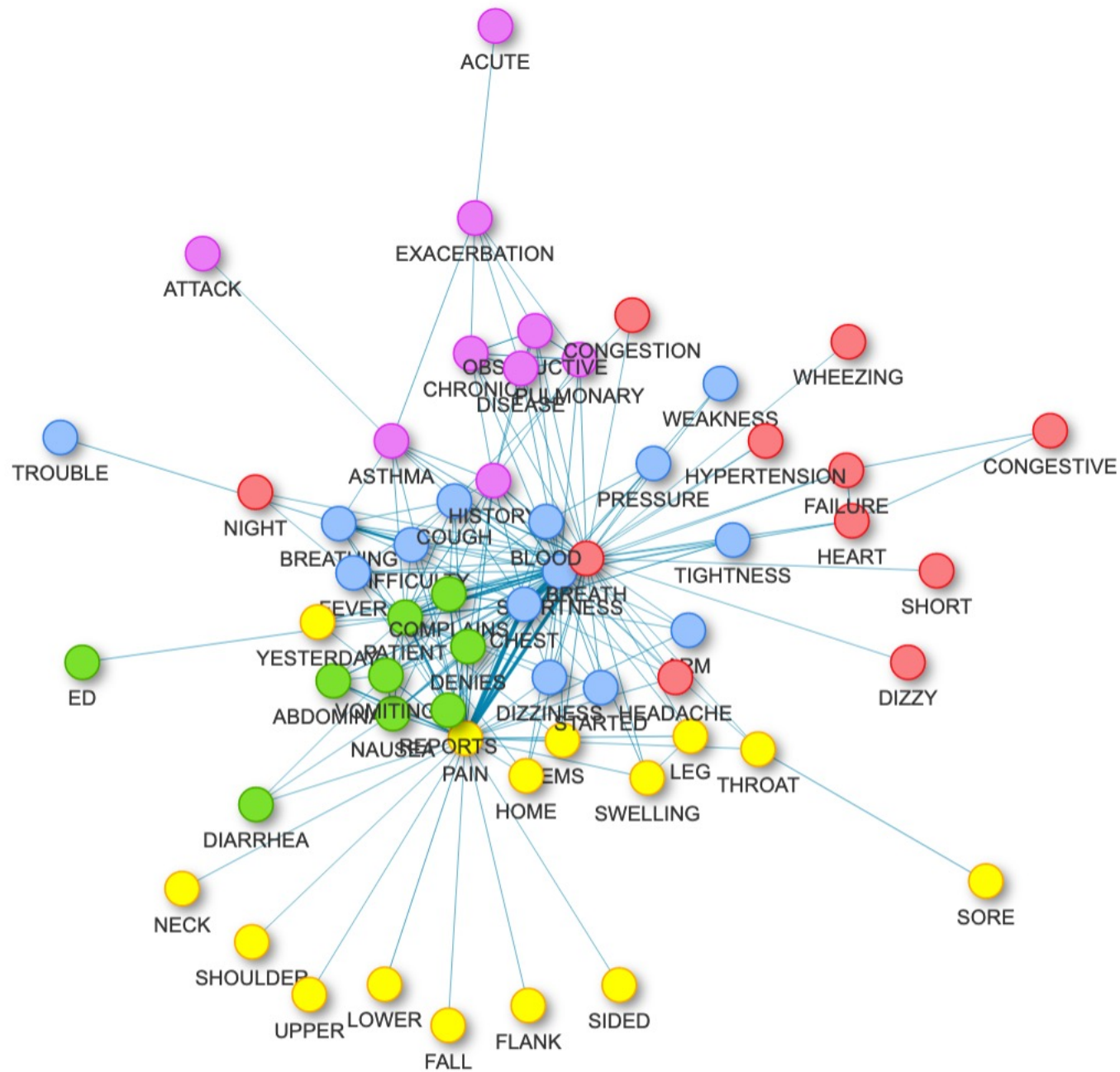
Top 200 Single Term Frequencies of Discharge Diagnosis



I10 - Essential (primary)
hypertension

J45909 - Unspecified asthma,
uncomplicated

R0602 - Shortness of breath



STATE/LOCAL VALIDATION STATUS

- Three jurisdictions have submitted validation results.
- One jurisdiction is still validating.

A large orange heart shape with a thin black outline, containing the text "Thank you!" in white.

Thank
you!

HIGH LEVEL VALIDATION TAKE-AWAYS

- Wildfire/Smoke definition performed as expected for both large and small areas/populations.
- Respiratory definition is broad. There may not be a statistically significant signal during a wildfire event, but did in some cases.

MEMBER VALIDATION FEEDBACK: WILDFIRE/SMOKE

- Correlated with PM 2.5.
- During known fire events there were more visits than statistically expected:
 - Adults (not kids and sometimes not adults 65+)
 - Resp, Injury, and sometimes Other visits
- This aligns with the literature and expectations.

MEMBER VALIDATION FEEDBACK: WILDFIRE/SMOKE

- Remove “ash” term and exclusions from primary query. (Retain as option in customization section).
- Add more exclusion terms in addition to “kitchen” such as “stove” and “oven.”

MEMBER VALIDATION FEEDBACK: RESPIRATORY

- Some alerts during known fire events in large areas, but not as well correlated with PM 2.5.
- Roughly same pattern and visit volume 2019 to 2020 which doesn't make sense with COVID-19.
- Suggestions for use:
 - Pair with more specific respiratory queries to be actionable.
 - Combine both wildfire and respiratory together.

VALIDATION
QUESTIONS/COMMENTS?

GUIDANCE DISCUSSION

- Limitations
 - Project Timing: Pandemic
 - Data Source Considerations: Developed primarily for ED data
 - Other?

GUIDANCE DISCUSSION

- Best Practices
 - Use for Public Health Action
 - Trend Analysis
 - Understanding Visits

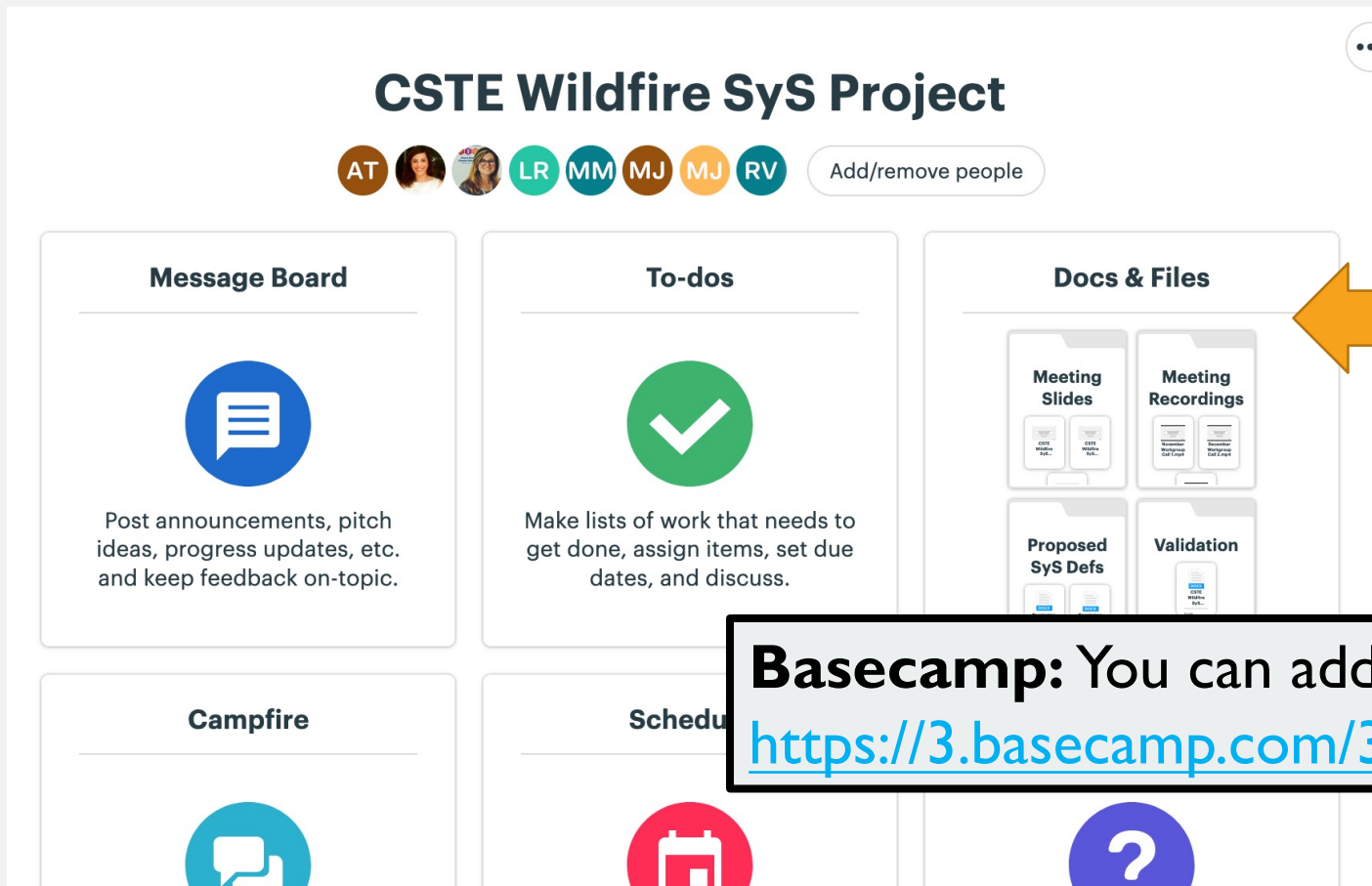
DRAFT REVIEW LOGISTICS

- Review Period: **April 5-23**
- Word document will be disseminated to all workgroup members via email and put on Basecamp
 - Track changes and/or comments
 - Individual or group feedback from your department/organization
- Send to both Meredith (mph.jagger@use.startmail.com) and Alesha (athompson@cste.org)

PRESENTATION OPPORTUNITY

- CSTE Climate Summit (Virtual): May 3-4
- Looking for volunteer presenters (state/local member and CDC member) to share preliminary findings from this workgroup
- Meredith will provide draft slides
- Email both Meredith (mph.jagger@use.startmail.com) and Alesha (athompson@cste.org) if you are interested!

BASECAMP



- Meeting Slides
- Meeting Recordings
- Proposed Sys Defs
- Validation

Basecamp: You can add yourself at this link:

<https://3.basecamp.com/3164497/join/QVvjdTyLvRru>

LOGISTICS AND NEXT STEPS

- Meredith will send workgroup updates and respond to feedback from **mph.jagger@use.startmail.com**.
 - Notes/slides from meetings
 - Google form for guide acknowledgment
 - Doodle for April call (discuss review of draft guide and additional validation results)
 - Presentation opportunity at Climate Summit May 3-4
 - Draft review period April 5-23
- Alesha will send out meeting invites from **athompson@cste.org**.