PCORnet CDC COVID-19 Electronic Healthcare Data Initiative

Bi-Monthly Webinar

February 22, 2021
<table>
<thead>
<tr>
<th>Time</th>
<th>Agenda Item</th>
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<tbody>
<tr>
<td>12:00 PM</td>
<td>Welcome and overview</td>
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<tr>
<td>12:05 PM</td>
<td><strong>Operational updates</strong> <em>(Public Health Informatics Institute)</em></td>
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<td>a. Contract status update</td>
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<td>b. Newsletter and webinar schedule</td>
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<td>12:10 PM</td>
<td><strong>Data queries</strong></td>
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<td>a. Query updates</td>
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<td>b. Long COVID query</td>
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<td>c. Plans for future queries</td>
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<td>d. Results dissemination</td>
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<td>12:45 PM</td>
<td><strong>Q&amp;A session</strong></td>
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Operational updates
Operational updates

- **Contract status reminders**
  - Submit the required accounting documents to the Task Force for Global Health (TFGH).
  - Once received, TFGH will assign a unique number to your agreement so proceed with invoicing.
  - Contact Tonya Duhart (tlduhart@phii.org) with any questions.

- **Communications reminders**
  - The recording and presentation materials for this webinar will be made available.
  - The next newsletter and webinar will take place in April.
Data queries
Agenda

- Queries executed and planned
- Long COVID query – results provided
- Chronic disease control query
- February cumulative query
- Admission/readmission query – results provided
Key Query Updates

• 7th query completed as of today
  • 4 cumulative queries
  • 3 targeted queries – 2-month lookback, readmissions/admissions, long COVID

• Upcoming queries – March and April
  • March 8: Chronic disease control
  • Data curation
  • Advanced analytics on Long COVID
  • Advanced analytics on chronic disease control
Recent changes, future directions

- Added exploration of vaccines and new meds used in treatment of COVID to queries
- Adding mortality as a covariate
- Future directions
  - Use of telehealth
  - Specific chronic diseases and outcomes
COVID CDM Update

- Asked sites to update their COVID CDM to CDM 6.0 as soon as can
- A few have asked for a few more weeks to update
- Queries can run on 5.1 and 6.0
Long COVID Query

- Completed end of Jan
- Repeated prevalence of 50+ conditions relative to index date
- Covers patients with positive test through November 2020
- Incidence (net of baseline and acute phase) of 15 conditions during the 31-120 day period
Children and Long COVID, 31 – 120 Days Post + Test, Inpatient Setting

![Bar Chart]

- Long COVID: 30%
- Bowel: 15%
- N/V: 10%
- Anx/Dep: 5%
- Seizure: 20%
- Imaging: 10%
- HR abnorm: 5%
- Wt loss: 5%
- Fatigue: 5%
- SOB: 0%
Adults Long COVID, 31 – 120 Days Post + Test, Inpatient Setting
Disease Control COVID Query

- Diabetes
  - Computable phenotype based on meds, A1c, codes
  - Define cohorts based on A1c level (<7%, 7-<9%, ≥ 9%), 18 months prior

- Hypertension
  - Computable phenotype based on meds, vitals, codes
  - Controlled and uncontrolled based on vital measures in 18 months prior

- Obesity
Strata for Query, DM & HTN

- All diabetes
  - At goal: A1c <7%
  - Moderate control: A1c 7-<9%
  - Poor control: A1c ≥ 9%

- All hypertension
  - Controlled – <130 and <80
  - Stage 1 – SBP 130-139 or DBP 80-89
  - Stage 2 – SBP 140-159 or DBP 90-99
  - Stage 2 (severe) – SBP 160+ or DBP 100+
February Cumulative Query

- Responses due last Friday, report next week
- Assessment of vaccines, baricitinib, fluvoxamine, colchicine, ivermectin for 1st time
- A few new underlying conditions added at request of CDC – RA and SLE
- Added observational stays to inpatient cohort
Admission/Readmission Query

- Completed in November
- Assessed two elements of care
  - Admission after pt initially evaluated in ambulatory or ED setting – early admit at 1-30 days, late 31-60
  - Readmission at 5 to 65 days post index admission
Admission after Pos test in the AV/ED Setting, Age Breakdown
# Admission after Pos Test in AV/ED, Race Breakdown

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<thead>
<tr>
<th>Race</th>
<th>Amb All Early Admit</th>
<th>Amb Late Admit</th>
<th>ED All Early Admit</th>
<th>ED Late Admit</th>
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Dissemination

- Publications
  - Medication and demographic trends in infections, separate adults and kids (LEGACY pub)
  - Long COVID (descriptive and regression)
  - Chronic disease control and COVID outcomes
  - Others

- Other mechanism – short briefs/infographics
Questions?