Workgroup Updates

OHDSI Community Call
July 19, 2022 • 11 am ET
## Upcoming OHDSI Community Calls

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tr>
<td>July 26</td>
<td>CDM Update Process</td>
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<tr>
<td>Aug. 2</td>
<td>Building A Community Within Your Organization</td>
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<tr>
<td>Aug. 9</td>
<td>Around The Asia-Pacific (APAC) Community</td>
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<tr>
<td>Aug. 16</td>
<td>OHDSI “Speed Dating”</td>
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<tr>
<td>Aug. 23</td>
<td>Workgroup Updates</td>
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<td>Aug. 30</td>
<td>EHDEN Academy/EHDEN Portal</td>
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</table>
Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?
OHDSI Shoutouts!

Congratulations to the team of Nicholas Tatonetti and Nick Giangreco on the publication of A database of pediatric drug effects to evaluate ontogenic mechanisms from child growth and development in Med.
OHDSI Shoutouts!

Any shoutouts from the community? Please share and help promote and celebrate OHDSI work!

Have a study published? Please send to sachson@ohdsi.org so we can share during this call and on our social channels. Let’s work together to promote the collaborative work happening in OHDSI!
Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?
# Upcoming Workgroup Calls

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<thead>
<tr>
<th>Date</th>
<th>Time (ET)</th>
<th>Meeting</th>
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<tr>
<td>Wednesday</td>
<td>9 am</td>
<td>FHIR and OMOP Data Model Harmonization Subgroup (ZOOM)</td>
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<tr>
<td>Wednesday</td>
<td>9 am</td>
<td>Africa Chapter</td>
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<td>Wednesday</td>
<td>10 am</td>
<td>FHIR and OMOP Digital Quality Measurements Subgroup (ZOOM)</td>
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<td>Wednesday</td>
<td>12 pm</td>
<td>Health Equity Journal Club</td>
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<td>Thursday</td>
<td>12 pm</td>
<td>HADES</td>
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<td>Thursday</td>
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<td>FHIR and OMOP Oncology Subgroup</td>
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<td>Thursday</td>
<td>6 pm</td>
<td>FHIR and OMOP Terminologies Subgroup (ZOOM)</td>
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<td>Friday</td>
<td>9 am</td>
<td>GIS – Geographic Information Systems Development</td>
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<td>Friday</td>
<td>9 am</td>
<td>Phenotype Development and Evaluation</td>
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<td>Friday</td>
<td>10:30 am</td>
<td>Clinical Trials</td>
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<tr>
<td>Tuesday</td>
<td>9 am</td>
<td>OMOP CDM Oncology Genomic Subgroup</td>
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[www.ohdsi.org/upcoming-working-group-calls](www.ohdsi.org/upcoming-working-group-calls)
Join OHDSI Workgroups

OHDSI’s central mission is to improve health by empowering a community to collaboratively generate the evidence that promotes better health decisions and better care. We work towards that goal in the areas of data standards, methodological research, open-source analytics development, and clinical applications.

Our workgroups present opportunities for all community members to find a home for their talents and passions, and make meaningful contributions. We are always looking for new collaborators. Learn more about these workgroups by checking out this page. Any workgroup that provided a community call update is highlighted in the top section.

See an area where you want to contribute? Please Join The Journey!

Join Our Workgroup Efforts!

Form To Join Workgroups In MSTeams  Weekly Workgroup Meeting Schedule

www.ohdsi.org/ohdsi-workgroups/
Titan Awards Nominations Are Open

To recognize OHDSI collaborators (or collaborating institutions) for their contributions towards OHDSI’s mission, the OHDSI Titan Awards were introduced at the 2018 Symposium and have been handed out at the U.S./Global Symposium each year since. Annually, community members are invited to nominate individuals or institutions they feel have made significant contributions towards advancing OHDSI’s mission, vision and values. Once nominations are submitted, the OHDSI Titan Award Committee will select the award winners. Award winners will be announced before the networking reception at the annual symposium. The award categories, as well as all previous recipients, can be found below.

Titan Award for Data Standards – to recognize extraordinary contributions by an individual, organization, or team in development or evaluation in community data standards, including OMOP common data model and standardized vocabularies
  - 2021 – Maxim Moinet, Hyve-Erasmus University Medical Center
  - 2020 – Chris Bickel, Janisian Research and Development
  - 2019 – Oncology Workgroup (Michael Gurley, Northwestern Univ.; Rima Balerkaya, Memorial Sloan Kettering Cancer Center; Robert Miller, Tufts CTSI)
  - 2018 – Vocabulary Team (Christian Reich, IQVIA; Anna Ostropolski, Columbia Univ.; Dmitry Dymshyts, Odyssey Data Services)

@OHDSI www.ohdsi.org #JoinTheJourney

2021 OHDSI Titan Awards
Maxim Moinet
Data Standards

2021 OHDSI Titan Awards
Iung Chen
Methodological Research

2021 OHDSI Titan Awards
Adam Back
Open Source Development

2021 OHDSI Titan Awards
Anke Geisser
Clinical Applications

2021 OHDSI Titan Awards
Erica Voos
Community Collaboration

2021 OHDSI Titan Awards
Mar Van Zest
Community Leadership

2021 OHDSI Titan Awards
FeiZhao Amdt
Community Collaboration

2021 OHDSI Titan Awards
Reza Williams
Community Collaboration

ohdsi.org/titan-awards
The EHDEN Consortium recently announced that 32 data partners from 14 countries have been selected from the latest open call.

Following the process of linking with an SME and data harmonization, these partners will join a data network that already includes 134 partners from 26 nations.
**Session 1**

**INTRODUCTION**

3:08 – Welcome to the European OHDSI Journey (Peter Rijnbeek, Chair, Department of Medical Informatics, Enamus MC)

3:19 – Journey of OHDSI: Where Have We Been? (George Hipszcy, Vivian Beaumont Allen Professor and Chair, Biomedical Informatics, Columbia University Medical Center)

34:45 – A CRUISE AROUND THE OHDSI EUROPE COMMUNITY (moderated by Miguel Hughes, Janssen Research and Development)

37:00 – Estonia: Conversion of Estonian health data into the OMOP CDM (Marko Oja, Institute of Computer Science, University of Tartu)

42:59 – Finland: The Finnish OMOP data network (FinOMOP) (Javier Gracia-Tabuenca, Tampere University of Technology)

49:33 – Denmark: Transforming Danish Registries to the OMOP Common Data Model: use case on the Danish Colorectal Cancer Group (DCCG) Database (Adamanti Osuchmka, Center for Surgical Science, Zealand University Hospital)

57:04 – Norway: Norwegian registries onto OMOP Common Data Model: mapping challenges and opportunities for pregnancy studies (Elmir Hurley, University of Oslo)

1:04:25 – Germany: OHDSI Germany: A recap after one year (Michele Zoch, Technische Universität Dresden)

1:12:43 – Italy: The Italian national node of OHDSI Europe (Luca Sacchi, University of Pavia)

1:17:45 – Greece: An update from the Greek National Node (Pantelis Ntasiavitis, Centre for Research & Technology Hellas)

1:23:07 – Ukraine: Integration prospects of the Ukrainian healthcare system with OMOP CDM (Marlia Kolesnyk, ScForCe)

1:29:40 – Israel: The journey from isolated EHRe to unified CDM network (Guy Livne, Israel Ministry of Health)

1:34:30 – France: Semantic harmonization of the French National healthcare database (SNDS) (Lorien Benda, Health Data Hub)

1:40:40 – Panel discussion including all European collaborators listed above.

**Session 2**

**Session 3**

**Session 4**
OHDSI Asia-Pacific Symposium

2022 OHDSI APAC Symposium Overview

November 12-13, 2022
Hosted in Taiwan by Taipei Medical University
OHDSI Asia-Pacific Symposium

- **Day 1 (November 12) – Tutorials**
  - Call for participation: additional tutors and TAs needed!

<table>
<thead>
<tr>
<th>Time</th>
<th>Schedule</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>08:30 – 09:00</td>
<td>Registration</td>
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<tr>
<td>09:00 – 12:00</td>
<td>OHDSI Intro – CDM &amp; Vocab</td>
<td>Christian + APAC</td>
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<tr>
<td>12:00 – 13:00</td>
<td>Lunch &amp; Poster Session</td>
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<tr>
<td>13:00 – 17:00</td>
<td>ETL &amp; DQ</td>
<td>Phenotype Development</td>
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## OHDSI Asia-Pacific Symposium

### Day 2 (November 13) – Conference

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<tr>
<th>Time</th>
<th>Schedule</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>08:00 – 08:30</td>
<td>Registration &amp; Light Breakfast</td>
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<tr>
<td>08:30 – 09:00</td>
<td>Taiwan and TMU Opening Remarks</td>
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<tr>
<td>09:00 – 09:20</td>
<td>OHDSI Opening Remarks</td>
<td>George Hripcsack</td>
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<td>09:20 – 09:40</td>
<td>Group Photo</td>
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<tr>
<td>09:40 – 10:00</td>
<td>Keynote – OHDSI Global Presentation</td>
<td>Patrick Ryan</td>
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<tr>
<td>10:00 – 10:20</td>
<td>OHDSI APAC Intro</td>
<td>Mui Van Zandt</td>
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<tr>
<td>10:20 – 10:30</td>
<td>Break</td>
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<tr>
<td>10:30 – 11:30</td>
<td>Researches in OHDSI APAC</td>
<td>Study Leaders</td>
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<tr>
<td>11:30 – 11:45</td>
<td>Researches using Taiwan National Data</td>
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<tr>
<td>11:45 – 12:00</td>
<td>Researches using TMUCRD Data</td>
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<tr>
<td>12:00 – 13:00</td>
<td>Lunch &amp; Poster Session</td>
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<tr>
<td>13:00 – 14:00</td>
<td>Panel – Standardization &amp; Common Data Models</td>
<td>Christian Reich &amp; others from APAC</td>
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<td>14:00 – 15:00</td>
<td>APAC Regional Adaption to Standardization</td>
<td>Chapter Leaders including potentially Thailand &amp; India</td>
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<td>15:00 – 16:15</td>
<td>Poster and Networking Session</td>
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<tr>
<td>16:15 – 17:00</td>
<td>Closing Remarks</td>
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Latest OHDSI Newsletter Is Available

Community Updates

Where Have We Been?

- The 2022 OHDSI European Symposium brought together more than 350 collaborators on the Steam Ship Rotterdam for our first in-person event since the start of the COVID pandemic. Learn more about the symposium and some of its outputs later in this newsletter.
- The OHDSI community and SNOMED International formalized their long-time relationship with a five-year collaborative agreement that will benefit both of their user communities. The collaboration provides OHDSI and its user community with comprehensive ontologies on specific healthcare domains and content such as devices, social determinants of health, disease severity scores and modifiers of cancers, as well as better concept definitions and resolutions of composite concepts in large-scale observational research.

Where Are We Now?

- A new tool to track OHDSI publications, citations, new authors and more has been developed by Paul Nagy and his team. The tool is available on the front page of the OHDSI web site.
- OHDSI had a record total of 139 submissions for the upcoming OHDSI 2022 Collaborator Showcase. The scientific review committee will go over each submission in July and notify accepted authors by August 3. Submissions came in the form of posters, software demos, and oral presentations. Thank you to everybody who submitted brief reports for our October global symposium.
- The OHDSI Social Showcase has returned to highlight the Collaborator Showcase research presented at the European Symposium. Please follow our Twitter and LinkedIn feeds to learn more about the exciting work happening within our community.

June Publications


The Journey Newsletter (July 2022)

Our community gathered together for the first time since the COVID pandemic for the 2022 European Symposium, while leaders in our open-source community provided tutorials on four tools that can aid global research. OHDSI and SNOMED formalized an important agreement that will aid collaboration opportunities around the world, and our community publications and presentations from June are linked below. All that, as well as community updates and plenty more, are available in our latest newsletter. #JoinTheJourney

European Symposium Recap

The 2022 OHDSI European Symposium was held June 24-26 on the SS Rotterdam in the Netherlands. More than 350 collaborators gathered together for the community’s first in-person symposium since the COVID pandemic to connect, share research, and learn from each other. Among the topics during the symposium was the use of the OMOP-CDM, tool development, and future research. The first day included a collaborator showcase which featured both posters and podium presentations to highlight OHDSI’s research achievements, and interactive demonstrations of OHDSI’s open-source software tools.

Collaborator Spotlight: Nicole Pratt

The work that has been generated in LEGEND and EURAMETS is important clinically. It can help to update clinical guidelines and provide robust evidence for regulatory authorities — but for us these landmark studies have also provided critical insights into which methodologies are appropriate under which conditions — especially the value of empirical calibration!

Nicole Pratt, a longtime collaborator with the OHDSI community who was recently named one of eight new SPIC Fellows for 2022, is the Deputy Director of the Quality Use of Medicines and Pharmacy Research Centre at the University of South Australia. She is a member of the Drug Utilisation Subcommittee (DUSC) of the Australian Department of Health Pharmaceutical Benefits Advisory Committee (PBAC).
Latest OHDSI Newsletter Is Available

Welcome to OHDSI!

The Observational Health Data Sciences and Informatics (or OHDSI, pronounced "Odyssey") program is a multi-stakeholder, interdisciplinary collaborative to bring out the value of health data through large-scale analytics. All our solutions
Assistant professor Brianne Oliveri-Mui announced an opening for a Postdoctoral Fellow to work at the Roux Institute at Northeastern University.

If you are interested, please reach out to Dr. Mui at b.mui@northeastern.edu.

The link and more information will be available on the community calls page.
Professor Dani Prieto-Alhambra and his team at the University of Oxford will be hiring two Research Assistants in Health Data Sciences.

The application deadline is August 8, 2022.

The link and more information will be available on the community calls page.
Registration is OPEN for #OHDSI2022!

The 2022 OHDSI Symposium will be held Oct. 14-16 at the Bethesda North Marriott Hotel & Conference Center.

www.ohdsi.org/ohdsi2022symposium
An Introductory Journey From Data To Evidence
OHDSI2022 Tutorial • Saturday, Oct. 15 • Bethesda, Md.

The OHDSI Journey: Where Are We Going?
Patrick Ryan

OMOP Common Data Model and Vocabulary
Clair Blacketer

ETL – A Source Database Into OMOP CDM
Melanie Philofsky

Creating Cohort Definitions
Asieh Golozar

Phenotype Evaluations
Gowtham Rao

Characterization
Kristin Kostka

Estimation
Martijn Schuemie

Prediction
Jenna Reps

The OHDSI Journey: Where Do We Go From Here?
George Hripcsak
# Workgroup Activities

## Saturday, Oct. 15, and Sunday, Oct. 16

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<th>Saturday, Oct 15</th>
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<td>Methods Research (PLE/PLP)</td>
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<td>1100</td>
<td>Lunch</td>
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<td>1200</td>
<td>HADES Hack-a-thon: Part 1</td>
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<td>1300</td>
<td>Oncology WG</td>
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<tr>
<td>1400</td>
<td>Oncology WG (continued)</td>
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<td>1500</td>
<td>Natural Language Processing</td>
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<td>1600</td>
<td>Lunch</td>
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<td>1700</td>
<td>FHIR-OMOP: Terminologies Subgroup, Part 1</td>
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<td>1800</td>
<td>FHIR-OMOP: Increasing the Value of Data Through a Rich Set of Attributes</td>
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<tr>
<td>800</td>
<td>All-Hands Workgroup Meeting</td>
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<td>Lunch</td>
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<td>1000</td>
<td>HADES Hack-a-thon: Part 2</td>
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<td>1100</td>
<td>Lunch</td>
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<td>1200</td>
<td>Phenotype Evaluation</td>
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<td>Education</td>
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<td>Health Equity</td>
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<td>1600</td>
<td>CDM and Data Quality</td>
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<td>1700</td>
<td>Lunch</td>
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Hotel Block Rooms Available

Rooms Available for Oct. 13 and Oct. 14

Welcome to 2022 OHDSI Symposium

Book your hotel room for the event at special rates, available here on an exclusive basis.

Make Reservation

Manage Existing Reservation
Miniaturizing Data Harmonization; Methods to Facilitate Training in the OMOP Data Ecosystem

Lead: Emma Gesquiere

We created a miniature harmonization training method with dockerized software packages to support the adoption of the OMOP CDM.

**MONDAY**
#OHDSISocialShowcase This Week

**TrajectoryViz: Interactive visualization of treatment trajectories**

**Lead: Maarja Pajusalu**

**METHODS**

TrajectoryViz can visualize trajectories based on discrete treatment periods with following data structures:
- **SUBJ,DS,PT,ST,(DS,ST),(PT,DS,ST),** and **ST,DS,ST,DS,ST**.

Based on this, it produces an interactive R Shiny application that displays interactive multiplots of the sequential ordering of the discrete patient level visualizations of the state sequences selected from the Sunburst plot.

The patient level sequences can be filtered, shown with the gaps in treatment and withdrawal, and aligned by different events. At these visualizations, any interactive belonging both quantifying the underlying aspects or focusing into particular patterns.

To view the visualization compatible with any OHDSI formatted database (Trajectories file) or Cohort2trajectory package in R.

**RESULTS**

To assess the capabilities of the TrajectoryViz for clinical decision making and offer new insights. Treatment of asthma patients was the primary objective and used for the asthma.

Diagnostic procedures on cervical cancer patients were used for the diagnosis. In both cases, we utilize the data from Estonian Health Insurance Fund and Estonian Health Information System.

**Use Case 1: Cervical Cancer patients**

- Focus on the patients with pronounced treatment gaps during PAP-HEC-Capac/topic.

**Use Case 2: Asthma patients**

- Focuses on the patients from SASK and LAMARCS system with treatment gaps.

**TUESDAY**

Explore the temporal patterns of the sequences, understand the data better, spot problems with analysis setup and generate novel hypotheses with the help of TrajectoryViz R package.
OMOP project evolvement at Technische Universität Dresden over the past years

Lead: Ines Reinecke

Initially 1 project to now 6 projects
with OMOP CDM as infrastructure base

CONCLUSION
1. Dataset experience and vocabulary overlap (infrastructure + CTI) play a vital fundamental role in meeting project goals.
2. Continuously growing expertise — become trusted partner.
3. Obstacles still exist, especially due to the continual advancements and accumulation of diverse vocabularies.

PROJECT DETAILS
1. MIRACUM: Patent recruitment infrastructure based on OMOP and HAPI to increase number of potential participating hospitals.
2. EHREN: Successful data partner application in Biomedical Research.
3. SATURN: Acts to map core concepts into OMOP for an integrated vocabulary that can improve patient care.
4. CODEX: Establishes a COVID-19 research infrastructure. OMOP infrastructure crucial and enabling the German Corona Genomics Database (GCDDB) to currently be in progress.
5. MiHUBx: MINI infrastructure extension to non-COVID-19 research, enabling data sharing among federated sites based on OMOP to extend patient management systems.
6. Hybrid-Q1: Aims to link statutory health insurance data with patient data in OMOP to improve existing quality indicators.

EDUCATION Assets Network Ideas

WEDNESDAY
Pharmacological treatment pathways of chronic cough in adults in primary care in the Netherlands

In primary care, 2 in 5 adults with chronic cough receive drug treatment, and nearly 30% of them require further treatment after initial therapy.

Pharmacological treatment pathways of chronic cough in adults in primary care: A population-based study

Leads: Johnmary Arinze, Solomon Ioannou

PRESENTERS: Johnmary Arinze (johnmary@erasmons.nl) & Solomon Ioannou (s.ioannou@erasmons.nl)

INTRODUCTION:
1. Vastly under-recognized and unreported pharmacological treatments for chronic cough.
2. Guidelines recommend treating underlying conditions and withholding therapies that are not recommended for unexplained cases; however, about 50% of chronic cough cases are refractory to treatment. Therefore, insights into the real-world treatment patterns of chronic cough are needed to advise future clinical interventions.

METHODS:
1. The retrospective cohort study described the drug utilization patterns of chronic cough patients in the Dutch primary care database (GPDO), from 2002 to 2015. The GPDO database is merged to the CNOP-EMF, the latter covering 35% of patients with chronic cough in specific disease setting, therefore, we created a control definition based on an algorithm.
2. Two consecutive years of cough within an 8-week interval were consistent chronic cough.
3. Eligibility: 275,775 patients of both sexes younger than 60 years old, observation from baseline, and 2 years of database follow-up.
4. Drug efficacy records were extracted based on the CNOP-EMF drug exposure list standardized to formulate concepts.
5. Analyses were performed using the R package, FriedmannKempf, that generates drug use and duration of exposure.
6. Incident drug use was presented for each drug class, and defined as new drug exposure in an index year without previous exposure in the preceding 365 days.

RESULTS:
1. Study participants: 302,206 adults, 54.6% female, mean age: 51.2 years, with Charlson comorbidity index score ≤ 5.
2. Characteristics during the entire study period are described in the figures.
3. Primary treatment (18.7%): Non-benzodiazepine drugs for acute respiratory disorders (21.7%), systemic antidepressants (18.1%), salbutamol (17.7%), musculoskeletal disorders (15.7%), salbutamol and bronchodilators (12.1%), local use of inhalation solutions (12.1%), and xerophthamia (9.0%)
4. Second-line treatment (12.7%): Included drugs for acute respiratory disorders (21.5%), systemic antidepressants (18.1%), salbutamol (16.6%), and local use of inhalation solutions (12.1%)
5. Third-line treatment – 3.5%: Included the treatment – 0.7%.

CONCLUSIONS:
1. In primary care, drugs for acute respiratory disorders, systemic antidepressants, topical, mucosal rehydrates, and inhalation solutions are the highest prescribed drugs for chronic cough.
2. The use of these agents among patients with chronic cough is rather high.

ASSOCIATIONS:
1. INDO – Inhaled Primary Care Information
2. EMF – Embracing Medical Outcomes Partnership
3. DSM – Common Data Model

0.CD authors: Annet P. Marus, Iva G. Breule, Peter H. M. Niemegeers, Kari E. C. Wiersma

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www.ohdsi.org
#JoinTheJourney
De-identification of Clinical Notes for Patients with Infectious Disease and Topic Modeling using Latent Dirichlet Allocation

Lead: Junhyuk Chang

Infectious disease can be screened and detected through natural language processing after de-identifying patient health information.

**Figure 1.** Word frequency plot for total documents.

**Figure 2.** Word density plot for four topics.

**De-identification of Clinical Notes for Patients with Infectious Disease and Topic Modeling using Latent Dirichlet Allocation**

*Presenter: Junhyuk Chang*

**INTRO**

- Infectious disease-related information is crucial for the care of patients, with recent advances in infectious disease research and treatment.
- There is a need to de-identify patient health information that could be identified.
- In this study, an approach is introduced to de-identify patient health information after de-identifying the data.

**METHOD**

1. Data preparation
   - Use UCI datasets and EMR data.
   - Create an EMR dataset.
2. De-identification of clinical notes
   - Use a pipeline to de-identify clinical notes.
3. Post-de-identification using topic modeling
   - Use a pipeline to identify topics.

**RESULTS**

- Extract relevant terms and PHI de-identification.
- Use a pipeline to identify relevant terms and PHI.
- Use a pipeline to de-identify PHI.

**Conclusion**

- In this study, clinical notes and PHI were de-identified using natural language processing techniques.
- The pipeline was validated on a dataset and was shown to be effective in de-identifying PHI.

**FRIDAY**

#OHDSISocialShowcase This Week
Where Are We Going?

Any other announcements of upcoming work, events, deadlines, etc?
Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?
July 19 Community Call: Workgroup Updates

Early-Stage Researchers

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