



HowOften: A Large-Scale Incidence Generation Initiative

OHDSI Community Call
June 20, 2023 • 11 am ET



Upcoming Community Calls

Date	Topic
June 27	Recent Publication Presentations
July 4	No Meeting
July 11	European Symposium Review
July 18	Vulcan: An HL7 FHIR Accelerator Transforming Clinical & Translational Research
July 25	Around The Asia-Pacific Region



Three Stages of The Journey

Where Have We Been?

Where Are We Now?

Where Are We Going?





OHDSI Shoutouts!




Congratulations to the team of **Faaizah Arshad, Martijn Schuemie, Fan Bu, Evan Minty, Thamir Alshammari, Lana Lai, Talita Duarte-Salles, Stephen Fortin, Fredrik Nyberg, Patrick Ryan, George Hripcsak, Dani Prieto-Alhambra, and Marc Suchard** on the publication of **Serially Combining Epidemiological Designs Does Not Improve Overall Signal Detection In Vaccine Safety Surveillance in *Drug Safety*.**

Drug Safety
<https://doi.org/10.1007/s40264-023-01324-1>

ORIGINAL RESEARCH ARTICLE



Serially Combining Epidemiological Designs Does Not Improve Overall Signal Detection in Vaccine Safety Surveillance

Faaizah Arshad^{1,2} · Martijn J. Schuemie^{1,2,3} · Fan Bu^{1,2} · Evan P. Minty⁴ · Thamir M. Alshammari⁵ · Lana Y. H. Lai⁶ · Talita Duarte-Salles⁷ · Stephen Fortin³ · Fredrik Nyberg⁸ · Patrick B. Ryan^{2,3} · George Hripcsak^{2,9,10} · Daniel Prieto-Alhambra^{11,12} · Marc A. Suchard^{1,2,13,14} 

Accepted: 29 May 2023
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Abstract

Introduction Vaccine safety surveillance commonly includes a serial testing approach with a sensitive method for ‘signal generation’ and specific method for ‘signal validation.’ The extent to which serial testing in real-world studies improves or hinders overall performance in terms of sensitivity and specificity remains unknown.

Methods We assessed the overall performance of serial testing using three administrative claims and one electronic health record database. We compared type I and II errors before and after empirical calibration for historical comparator, self-controlled case series (SCCS), and the serial combination of those designs against six vaccine exposure groups with 93 negative control and 279 imputed positive control outcomes.

Results The historical comparator design mostly had fewer type II errors than SCCS. SCCS had fewer type I errors than the historical comparator. Before empirical calibration, the serial combination increased specificity and decreased sensitivity. Type II errors mostly exceeded 50%. After empirical calibration, type I errors returned to nominal; sensitivity was lowest when the methods were combined.

Conclusion While serial combination produced fewer false-positive signals compared with the most specific method, it generated more false-negative signals compared with the most sensitive method. Using a historical comparator design followed by an SCCS analysis yielded decreased sensitivity in evaluating safety signals relative to a one-stage SCCS approach. While the current use of serial testing in vaccine surveillance may provide a practical paradigm for signal identification and triage, single epidemiological designs should be explored as valuable approaches to detecting signals.



OHDSI Shoutouts!



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Congratulations to the team of **Ji Eun Lim, Hye Min Kim, Ju Hee Ki, Hey Sung Baek, and Man Yong Han** on the publication of **Association between dyslipidemia and asthma in children: A systematic review and multicenter cohort study using a common data model** in *Clinical and Experimental Pediatrics*.

CEP *Clinical and Experimental Pediatrics*

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[Clin Exp Pediatr](#) > [Accepted Articles](#)

Original Article

DOI: <https://doi.org/10.3345/cep.2023.00290> [Accepted]

Published online June 14, 2023.

Association between dyslipidemia and asthma in children: A systematic review and multicenter cohort study using a common data model

Ji Eun Lim¹, Hye Min Kim¹, Ju Hee Kim¹ , Hey Sung Baek¹ , Man Yong Han² 

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Received: 6 February 2023 • Revised: 27 April 2023 • Accepted: 7 June 2023

Abstract

Background

The association between dyslipidemia and asthma in children remains unclear. This study investigated the association between dyslipidemia and cholesterol in children.



OHDSI Shoutouts!



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

Do you have anything you want to share? Please send to sachson@ohdsi.org so we can highlight 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?

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Upcoming Workgroup Calls



Date	Time (ET)	Meeting
Tuesday	1 pm	Common Data Model
Wednesday	12 pm	Health Equity
Wednesday	1 pm	Perinatal & Reproductive Health
Friday	9 am	Phenotype Development & Evaluation
Friday	9 am	GIS – Geographic Information Systems Development
Friday	1 pm	Clinical Trials
Monday	9 am	Vaccine Vocabulary
Monday	10 am	Africa Chapter
Monday	11 am	Data Bricks User Group
Monday	4 pm	Eyecare & Vision Research
Tuesday	9 am	OMOP CDM Oncology Genomic Subgroup



Another Showcase Record!



Thank you to all community members who shared their brief reports for the 2023 OHDSI Global Symposium. We are thrilled to announce that **we set ANOTHER community record with more than 160 submissions** for our expanded Collaborator Showcase this October!





OHDSI HADES releases: Capr 2.0.4

Capr

Capr is part of [HADES](#)

Introduction

The goal of Capr, pronounced 'kay-pr' like the edible flower, is to provide a language for expressing OHDSI Cohort definitions in R code. OHDSI defines a cohort as “a set of persons who satisfy one or more inclusion criteria for a duration of time” and provides a standardized approach for defining them (Circe-be). Capr exposes the standardized approach to cohort building through a programmatic interface in R which is particularly helpful when creating a large number of similar cohorts. Capr version 2 introduces a new user interface designed for readability with the goal that Capr code being a human readable description of a cohort while also being executable on an OMOP Common Data Model.

Learn more about the OHDSI approach to cohort building in the [cohorts chapter of the Book of OHDSI](#).

Installation

Capr can be installed via:

```
# install.packages("Capr")
```

You can also install the current development version of Capr from [GitHub](#) with:



Links

- [Browse source code](#)
- [Report a bug](#)
- [Ask a question](#)

License

[Full license](#)
Apache License (>= 2)



Citation

[Citing Capr](#)

Developers

- Martin Lavalley
Author, maintainer
- Adam Black
Author

Dev status

 codecov 74%  R-CMD-check passing





OHDSI HADES releases: DeepPatientLevelPrediction 1.1.6

DeepPatientLevelPrediction

R-CMD-check **passing** codecov **100%**

Introduction

DeepPatientLevelPrediction is an R package for building and validating deep learning patient-level predictive models using data in the OMOP Common Data Model format and OHDSI PatientLevelPrediction framework.

Reps JM, Schuemie MJ, Suchard MA, Ryan PB, Rijnbeek PR. [Design and implementation of a standardized framework to generate and evaluate patient-level prediction models using observational healthcare data](#). J Am Med Inform Assoc. 2018;25(8):969-975.

Features

- Adds deep learning models to use in the OHDSI PatientLevelPrediction framework.
- Allows to add custom deep learning models.
- Includes an MLP, ResNet and a Transformer
- Allows to use all the features of [PatientLevelPrediction](#) to validate and explore your model performance.

Technology

DeepPatientLevelPrediction is an R package. It uses [torch in R](#) to build deep learning models without using python.

Links

- [Browse source code](#)
- [Report a bug](#)
- [Ask a question](#)

License

Apache License 2.0

Citation

[Citing DeepPatientLevelPrediction](#)

Developers

Egill Fridgeirsson
Author, maintainer

Jenna Reps
Author

Seng Chan You
Author

Chungsoo Kim
Author

Henrik John
Author





European Symposium



European Symposium

July 1-3 • Rotterdam, Neth.

ohdsi-europe.org

Time	Description	Location
8:00 – 9:00	Registration and Coffee	Queen's Lounge
9:00 – 9:10	Welcome to the European OHDSI Journey Speaker: Peter Rijnbeek, PhD, Chair, Department of Medical Informatics, Erasmus MC	Theatre
9:10 – 9:40	Journey of OHDSI: Where have we been and where we can go together? Speaker: Patrick Ryan, PhD, Janssen Research and Development, Department of Biomedical Informatics, Columbia University Medical Center	Theatre
9:40 – 11:00	European Initiatives Using the OMOP CDM Moderator: Renske Los, PhD, Assistant Professor of Medical Informatics, Department of Medical Informatics, Erasmus MC Multiple presentations of European Projects and Initiatives	Theatre
11:00 – 11:30	Coffee Break	Queen's Lounge
11:30 – 12:45	Collaborator Showcase: Rapid fire presentations Moderator: Katia Verhamme, MD, Associate Professor of Use and Analysis of Observational Data, Department of Medical Informatics, Erasmus MC, Rotterdam. Abstract Selection Ongoing	Theatre
12:45 – 13:45	Lunch	La Fontaine & Odyssee Room
13:00 – 14:30	OHDSI Collaborator Showcase Poster presentations and open-source software demonstrations from OHDSI collaborators: <ul style="list-style-type: none"> - Observational data standards and management - Open-source analytics development - National nodes 	La Fontaine & Odyssee Room
		Early Investigators Mentor Meetings Lead: Ross Williams, Department of Medical Informatics, Erasmus MC Rotterdam
14:30 – 16:00	OHDSI Collaborator Showcase Poster presentations and open-source software demonstrations from OHDSI collaborators: <ul style="list-style-type: none"> - Clinical applications - Methodological research 	La Fontaine & Odyssee Room
		Workgroup Q/A OHDSI Workaroup Leads available for Q/A in breakout rooms
16:00 – 16:30	OHDSI Community Evidence in the Spotlight Selected Presentation from the Community	Theatre
16:30 – 17:45	Data Analysis and Real World Interrogation Network (DARWIN EU®) Multiple speakers from the DARWIN EU® Coordination Center <u>Questions and Answers Session</u>	Theatre
17:45 – 18:00	Closure	Theatre
18:00 – 19:30	Networking Reception	Queen's Lounge



APAC Symposium

2023 OHDSI Symposium Agenda

Day 1 (July 13) • Main Conference

8:00-9:00 • Registration & light breakfast

9:00-9:20 • Welcome Session

Session 1: OHDSI Global

9:20-9:50 • Keynote – Engineering an open science system that builds trust, confidence and addresses the needs of regulators, clinicians, and consumers

9:50-10:20 • Transforming health: What do regulators, clinicians, and consumers really want to know about healthcare and how can OHDSI help

10:20-10:40 • break

Session 2: Research

10:40-11:00 • Presentation of study results

11:00-12:00 • Panel discussion – regulators, clinicians and consumers (response from stakeholders)

12:00-13:30 • Lunch & poster presentation

Session 3: OHDSI APAC

13:30-14:30 • OMOP/FHIR: Overcoming challenges through collaboration

14:30-15:30 • Panel discussion – APAC regional chapters

15:30-16:00 • Closing remarks

16:00-17:30 • Networking reception

Day 2 (July 14) • Tutorials

Tutorials will be led by Patrick Ryan, Martijn Schuemie, Marc Suchard, Mui Van Zandt, Nicole Pratt, and others on the topic of “How to run a network study.”

9:00-10:20 • ETL

10:20-10:40 • break

10:40-12:00 • Characterization

12:00-13:00 • break

13:00-15:00 • Population-Level Estimation

15:00-15:20 • break

15:20-17:20 • Patient-Level Prediction



Asia-Pacific Symposium

July 13-14 • Sydney, Australia

ohdsi.org/2023apacsymposium



Global Symposium



Global Symposium

Oct. 20-22 • East Brunswick, NJ, USA

ohdsi.org/OHDSI2023




OHDSI 2023 Global Symposium October 20-22 • East Brunswick, NJ, USA

** This agenda is tentative and subject to change*

	Friday, Oct 20	Saturday, Oct 21	Sunday, Oct 22
8:00am	Welcome to OHDSI2023!	Intro to OHDSI Tutorial & OHDSI workgroup activities	OHDSI collaborative workshop: HowOften
9:00am	State of the Community		
10:00am	Community networking		
11:00am	Plenary session		
12:00pm	Lunch	Collaborator Showcase: posters & demos	Collaborator Showcase: posters & demos
1:00pm	Panel: Network studies	OHDSI collaborative workshop: HowOften	OHDSI workgroup activities
2:00pm	Collaborator Showcase: posters & demos		
3:00pm	Collaborator Showcase: Lightning talks		
4:00pm	Collaborator Showcase: posters & demos		
5:00pm	Closing talk	Free time ☺	Time to go home ☺
6:00pm	OHDSI Got Talent!		



Global Symposium

		 <p style="text-align: center;">2023 OHDSI Global Symposium Friday, October 20- Sunday, October 22 Hilton East Brunswick Hotel and Meeting Center</p>																		
Friday, October 20																				
Start Time	End Time																			
7:00	8:00	Registration/ Light Breakfast																		
8:00	9:00	Welcome to OHDSI2023																		
9:00	10:00	State of the Community																		
10:00	11:00	Community Networking/ Meet the Mentors																		
11:00	12:00	Plenary Session																		
12:00	13:00	Buffet Lunch																		
13:00	14:00	Panel: Network Studies																		
14:00	15:00	Collaborator Showcase - Posters and Software Demonstrations																		
15:00	16:00	Collaborator Showcase - Lightning Talks																		
16:00	17:00	Collaborator Showcase - Posters and Software Demonstrations																		
17:00	18:00	Closing Talk																		
18:00	19:00	OHDSI Got Talent!																		
19:00	20:00	Networking Reception																		
Saturday, October 21																				
8:00	9:00	<div style="background-color: #f4a460; padding: 5px; text-align: center;">EXHIBITS</div>	<div style="background-color: #90ee90; padding: 5px; text-align: center;">HADES</div>	<div style="background-color: #9370db; padding: 5px; text-align: center;">Oncology</div>	<div style="background-color: #ffff00; padding: 5px; text-align: center;">Perinatal & Reproductive</div>	<div style="background-color: #00b0f0; padding: 5px; text-align: center;">CDM/Network Data Quality</div>	<div style="background-color: #e6e6fa; padding: 5px; text-align: center;">Health Equity</div>	<div style="background-color: #32cd32; padding: 5px; text-align: center;">Phenotype Evaluation</div>	<div style="background-color: #a9a9a9; padding: 5px; text-align: center;">Industry Special Interest</div>	<div style="background-color: #add8e6; padding: 5px; text-align: center;">Medical Imaging</div>	<div style="background-color: #ffcc99; padding: 5px; text-align: center;">Natural Lang. Processing</div>									
9:00	10:00											Introduction to OHDSI Tutorial								
10:00	11:00																			
11:00	12:00											Collaborator Showcase (and lunch)								
12:00	13:00																			
13:00	14:00	<div style="background-color: #ffcc00; padding: 5px; text-align: center;">HowOften Large-scale Characterization Workshop</div>																		
14:00	15:00																			
15:00	16:00																			
16:00	17:00																			
Sunday, October 22																				
8:00	9:00	<div style="background-color: #f4a460; padding: 5px; text-align: center;">EXHIBITS</div>	<div style="background-color: #90ee90; padding: 5px; text-align: center;">HADES</div>	<div style="background-color: #add8e6; padding: 5px; text-align: center;">Vocabularies</div>	<div style="background-color: #e91e63; padding: 5px; text-align: center;">Healthcare Svstems</div>	<div style="background-color: #fce4ec; padding: 5px; text-align: center;">HL7 FHIR-OMOP Connectathon</div>	<div style="background-color: #c8e6c9; padding: 5px; text-align: center;">Medical Devices</div>	<div style="background-color: #3954ab; padding: 5px; text-align: center;">Education</div>	<div style="background-color: #fff9c4; padding: 5px; text-align: center;">ISPE-RWE For Pharmacovaiilance</div>	<div style="background-color: #f44336; padding: 5px; text-align: center;">Eye care & Vision Research</div>	<div style="background-color: #8d6e63; padding: 5px; text-align: center;">Psychiatry</div>									
9:00	10:00											HowOften Large-scale Characterization Workshop								
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12:00	13:00																			
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14:00	15:00																			
15:00	16:00																			
16:00	17:00																			

Job Openings – This Week In OHDSI page



OMOP Data Analyst

[Apply](#)

Wayne, PA, United States of America

Full time

Posted 5 Days Ago

R1363929

OMOP Data Analyst
Job Overview

Under broad guidance, performs data analytics activities related to complex business problems and issues to provide insight to decision makers. May provide analytic support for internal project teams and for external client consulting or services engagements.

Essential Functions

- Under broad guidance, performs quantitative or qualitative analyses to support the development of solutions for internal or external client project teams.
- Identifies and interprets trends and patterns in datasets to support the development of recommendations.
- Constructs impact assessment based on business data and market knowledge. Creates specifications for reports and analysis based on business needs and required or available data elements.
- May directly produce datasets and reports for analysis using system reporting tools.
- Verifies data for accuracy and completeness.
- May manipulate and transform data to optimize analyses.
- Performs audits of own work or that of others to ensure conformance with established procedures or to resolve routine issues.
- May work with stand alone data systems or enterprise wide tools supporting activities such as inquiry resolution, data validation, and trend analysis.
- SQL programming is a must.
- OMOP data model work experience is required.
- Experience with clinical data, EHR or pharmaceutical data is required.

About Us

IQVIA is a world leader in using data, technology, advanced analytics, and expertise to help customers drive healthcare – and human health – forward. Together with the companies we serve, we are enabling a more

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COLUMBIA UNIVERSITY
DEPARTMENT OF BIOMEDICAL INFORMATICS

DBMI Home News & Events Research People Prospective Students Academics Resources

Tenure Track Faculty

#105752

Description

The Department of Biomedical Informatics (DBMI) of Columbia University seeks exceptional junior-level faculty members in the tenure track.

The positions are open to researchers interested in developing and applying informatics theory and achieving tangible benefits to health care and biology. Three particular foci are (1) machine learning for healthcare and health-related data science, (2) health information technology-based interventions to improve health care and the health of individuals and populations, and (3) translational bioinformatics.

Open Rank- Tenure Track of Internal Medicine in Translational Informatics

Albuquerque, NM, United States | req23346

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Open Rank- Tenure Track of Internal Medicine in Translational Informatics

Posting Number	req23346
Employment Type	Faculty
Faculty Type	Open Rank
Hiring Department	IM Translations Informatics (B52T)
Academic Location	School of Medicine
Benefits Eligible	The University of New Mexico provides a comprehensive package of benefits including medical, dental, vision, and life insurance. In addition, UNM offers educational benefits through the tuition remission and dependent education programs. See the Benefits home page for more information.
Position Summary	The University of New Mexico, Health Sciences Center, Department of Internal Medicine, seeks a faculty member to join the Division of Translational Informatics. This position is at the Open rank and Tenure track. While the focus of the position is research-oriented, optionally, the position affords the opportunity for the candidate to have a joint clinical appointment for part-time clinical service with the University of New Mexico, and/or the Raymond G. Murphy VA Medical Center. Salary will be commensurate with experience and education.

Boehringer Ingelheim is an equal opportunity global employer who takes pride in maintaining a diverse and inclusive culture. We embrace diversity of perspectives and strive for an inclusive environment which benefits our employees, patients and communities.

Senior Associate Director, Real World Data & Analytics (Remote)-232633

Description:
The purpose of this job is to:

- Generate real world evidence (RWE) to support in-line and pipeline products.
- Provide statistical advice on the analysis of real world data (RWD) to various internal and external stakeholders.
- Contribute to the RWD acquisition strategy and tool evaluation.
- Participate in the development and presentation of RWE trainings.

As an employee of Boehringer Ingelheim, you will actively contribute to the discovery, development and delivery of our products to our patients and customers. Our global presence provides opportunity for all employees to collaborate internationally, offering visibility and opportunity to directly contribute to the company's success. We realize that our strength and competitive advantage lie with our people. We support our employees in a number of ways to foster a healthy working environment, meaningful work, diversity and inclusion, mobility, networking and work-life balance. Our competitive compensation and benefit programs reflect Boehringer Ingelheim's high regard for our employees.

Duties & Responsibilities:

- Provide expert advice in the analysis of real world data (such as medical claims, electronic health records, registries) for stakeholders in epidemiology, market access / HEOR, medical affairs, and other functional areas. These analyses may include:

R&D

Associate Director, Observational Health Data Analytics – Global Epidemiology

JOB TITLE	Associate Director, Observational Health Data Analytics – Global Epidemiology
FUNCTION	R&D
SUB FUNCTION	Epidemiology
LOCATION	Raritan, New Jersey, United States; Horsham, Pennsylvania, United States; United States; Titusville, New Jersey, United States
DATE POSTED	May 23 2023
REQUISITION NUMBER	2306123161W

[Apply Now](#) [☆](#) [↔](#)

Software Dev Analyst II - Res - G&C - CTSI

Job ID: REF9053H
Date posted: 2/20/2023

Employment Type: Full Time
Shift: Days
Location: Boston, MA

Research Programmer Analyst (RPA) Remote/Hybrid

IT EDW Operations
Full Time
72873BR

Job Summary

Work as a Research Programmer Analyst (RPA) on a small team to develop, operate, and maintain ETL processes, clinical data warehouses, and associated data products for health research.

The RPA's role is multi-faceted, involving domain knowledge (clinical data, research informatics), technical expertise, and communication skills. The RPA will operate, monitor, and enhance existing ETL processes and infrastructure, develop data profiles, perform quality assessments, investigate data anomalies, and create/maintain related documentation and annotated data dictionaries. The RPA will routinely communicate with researchers, clinicians, data scientists, and other stakeholders to stay aligned with needs and understand data requirements and translate them into efficient, well-documented ETL solutions.

The RPA will support multiple projects and data assets, including the PCORnet CDM (and related research projects), the UC Health Data Warehouse (UC HDW Operational OMP), and the 'All of Us' Research Program.

Responsibilities include, but are not limited to the following:

- Work closely with researchers, data scientists, and other stakeholders to understand their data requirements and translate them into efficient ETL solutions.
- Develop, implement, and maintain ETL processes using SSIS and T-SQL stored procedures to extract, transform, and load data from Epic EHR and other sources into common data models like PCORnet CDM and OHDSI's OMOP.
- Ensure data quality and integrity throughout the ETL process by performing data mapping, transformation, and validation.
- Optimize ETL processes for performance, scalability, and reliability, identifying and resolving bottlenecks as needed.
- Collaborate with team members to integrate data from disparate sources and ensure seamless data flow for research purposes.
- Maintain up-to-date knowledge of the healthcare domain, including clinical terminologies, workflows, data standards, and regulations.
- Adhere to data security best practices and ensure compliance with privacy regulations like HIPAA.
- Provide (and request) technical support and guidance to (and from) other team members as needed.
- Contribute to project management, setting priorities, and meeting deadlines.

To see the salary range for this position (we recommend that you make a note of the job code and use that to look up): [UCSF Non-Academic Titles Search \(ucsf.edu\)](#)

Please note: The compensation ranges listed online for roles not covered by a bargaining unit agreement are very wide, however a job offer will typically fall in the range of 80% - 120% of the established mid-point. An offer will take into consideration the experience of the final candidate AND the current salary level of individuals working at UCSF in a similar role.

For roles covered by a bargaining unit agreement, there will be specific rules about where a new hire would be placed on the range.

To learn more about the benefits of working at UCSF, including total compensation, please visit: <https://ucsfnet.universityofcalifornia.edu/compensation-and-benefits/index.html>



Where Are We Going?

**Any other announcements
of upcoming work, events,
deadlines, etc?**





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