

HowOften: Findings, Current Projects & Next Steps

OHDSI Community Call July 16, 2024 • 11 am ET

in ohdsi



Upcoming Community Calls

Date	Topic		
July 16	HowOften Initiative & Early Results		
July 23	Building The OHDSI Evidence Network Sprint		
July 30	Advances in Patient-Level Prediction		
Aug. 6	Building The OHDSI Evidence Network Sprint		
Aug. 13	Global Symposium Tutorials		
Aug. 20	Building The OHDSI Evidence Network Sprint		
Aug. 27	canceled due to ISPE 2024		
Sept. 3	New Standardized Vocabularies Release		







July 23: Building The Evidence Network, Session II



Clair Blacketer

Director, Epidemiology Analytics, Janssen Research & Development, Inc.



Paul Nagy

Deputy Director, Johns Hopkins Medicine Technology Innovation Center Director of Education, Biomedical Informatics and Data Science Graduate Training Programs



Three Stages of The Journey

Where Have We Been? Where Are We Now? Where Are We Going?







OHDSI Shoutouts!



Congratulations to the team of Kyulee Jeon, Woo Yeon Park, Charles E Kahn Jr, Paul Nagy, Seng Chan You, and Soon Ho Yoon on the publication of Advancing Medical **Imaging Research Through Standardization: The Path to Rapid Development, Rigorous Validation,** and Robust Reproducibility in Investigative Radiology.

REVIEW ARTICLE

OPEN

Advancing Medical Imaging Research Through Standardization The Path to Rapid Development, Rigorous Validation, and Robust Reproducibility

Kyulee Jeon, BS, Woo Yeon Park, MS, Charles E. Kahn, Jr, MD, MS, FACR, Paul Nagy, PhD, Seng Chan You, MD, PhD, and Soon Ho Yoon, MD, PhD

Abstract: Artificial intelligence (AI) has made significant advances in radiology. Nonetheless, challenges in AI development, validation, and reproducibility persist, primarily due to the lack of high-quality, large-scale, standardized data across the world. Addressing these challenges requires comprehensive standardization of medical imaging data and seamless integration with structured medical data.

Developed by the Observational Health Data Sciences and Informatics and Community, the OMOP Common Data Model enables large-scale international second aborations with structured medical data. It ensures syntactic and semantic interpretability, while supporting the privacy-protected distribution of research across borders. The recently proposed Medical Imaging Common Data Model is designed to encompass all DICOM-formatted medical imaging data and integrate imaging-derived features with clinical data, ensuring their provenance.

The harmonization of medical imaging data and its seamless integration with structured clinical data at a global scale will pave the way for advanced AI bresearch in radiology. This standardization will enable federated learning, ensuring privacy-preserving collaboration across institutions and promoting equitable AI through the inclusion of diverse patient populations. Moreover, it will facilitate the development of foundation models trained on large-scale, multimodal datasets, serving as powerful starting points for specialized AI applications. Objective and transparent algorithm validation on a standardized data infrastructure will enhance reproducibility and interoperability of AI systems, driving innovation and reliability in clinical applications.

Key Words: radiology, diagnostic imaging, data standardization, observational study, artificial intelligence, reproducibility of results, multimodal data analysis, federated analysis

(Invest Radiol 2025;00: 00-00)

S ince 2010, there has been a remarkable increase in the number of published papers utilizing artificial intelligence (AI) in medical research. Notably, one fifth of these publications dealt with medical imaging, which emerged as the most significant area in the paradigm shift of medical research toward AI. This trend reflects the fact that the field of radiology has been at the forefront of AI research within the medical domain.

The predominance of radiology in medical AI research stems from multiple factors. The advancements in deep learning for computer vision, especially since the development of AlexNet in 2012,3 have significantly enhanced the field of medical imaging.4 These technological breakthroughs have achieved unprecedented precision in tasks essential to radiological analysis, such as image classification, object detection, and segmentation. 3,5,6 Meanwhile, the progress in computer vision has been facilitated by the assembly of extensive datasets such as ImageNet, which is openly accessible and comprises over 14 million annotated images.7 However, constructing comparable datasets in the medical field remains largely impractical. Medical data are not primarily gathered for research purposes but are recorded during the delivery of patient care, which vary widely according to the practices of each healthcare institution. Consequently, the data exhibit significant variations in format and content both across and within institutions, making it exceptionally challenging to standardize, manage, or amalgamate effectively.

Unlike in other healthcare fields, the widespread adoption of the Digital Imaging and Communications in Medicine (DICOM) standard has been pivotal in advancing radiological studies. As DICOM has been implemented across almost every device, it allows for the integration of medical images from various sources within Picture Archiving and Communication Systems (PACS). 8–11 This integration has been further



OHDSI Shoutouts!



Congratulations to the team of Hyerim Ji, Seok Kim, Leonard Sunwoo, Sowon Jang, Ho-Young Lee, and Sooyoung Yoo on the publication of Integrating **Clinical Data and Medical Imaging in Lung Cancer: Feasibility Study Using** the Observational Medical Outcomes **Partnership Common Data Model Extension** in *JMIR Medical Informatics*.







Three Stages of The Journey

Where Have We Been? Where Are We Now? Where Are We Going?







Upcoming Workgroup Calls



Date	Time (ET)	Meeting
Tuesday	1 pm	Common Data Model
Wednesday	1 pm	Perinatal & Reproductive Health
Wednesday	4 pm	Vulcan/OHDSI
Thursday	9 am	OMOP CDM Oncology Vocabulary/Development Subgroup
Thursday	9:30 am	Themis
Thursday	12 pm	Medical Devices
Friday	10 am	GIS-Geographic Information System
Friday	10:30 am	Open-Source Community
Friday	11:30 am	Steering Group
Friday	11:30 am	Clinical Trials
Monday	10 am	Africa Chapter
Monday	10 am	CDM Survey Subgroup
Tuesday	9 am	OMOP CDM Oncology Vocabulary/Development Subgroup



Is Semaglutide Associated with Blinding Eye Diseases??

JAMA Ophthalmology | Original Investigation

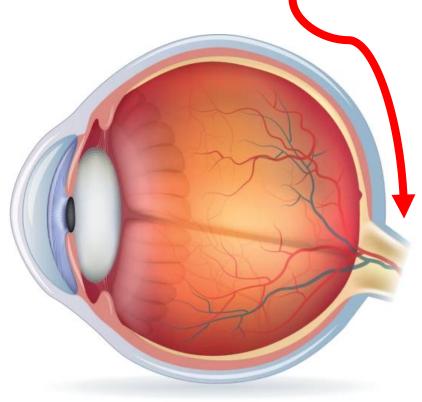
Risk of Nonarteritic Anterior Ischemic Optic Neuropathy in Patients Prescribed Semaglutide

Jimena Tatiana Hathaway, MD, MPH; Madhura P. Shah, BS; David B. Hathaway, MD; Seyedeh Maryam Zekavat, MD, PhD; Drenushe Krasniqi, BA; John W. Gittinger Jr, MD; Dean Cestari, MD; Robert Mallery, MD; Bardia Abbasi, MD; Marc Bouffard, MD; Bart K. Chwalisz, MD; Tais Estrela, MD; Joseph F. Rizzo III, MD

Hazard Ratio of NAION 4.28 (95% CI: 1.62 - 11.29, P < .001)

"The best approaches to confirm, refute, or re- fine our findings would be to conduct a much larger, retrospective, multicenter population-based cohort study; a prospective, randomized clinical study; or a postmarket analysis of all GLP-1 RA drugs."

NAION = stroke of the optic nerve





Next CBER Best Seminar: July 17

Speaker: Yonas Ghebremichael-

Weldeselassie, Lecturer of Statistics at School of Mathematics and Statistics, The Open University, UK

Topic: A modified self-controlled case series method for event-dependent exposures and high event-related mortality, with application to COVID-19 vaccine safety

Date/Time: Wednesday, July 17, 11 am ET

Upcoming Seminars

- July 17, 2024 (11 am) - Yonas Ghebremichael-Weldeselassie, Warwick Medical School

Topic: A modified self-controlled case series method for event-dependent exposures and high event-related mortality, with application to COVID-19 vaccine safety

Presenter: Yonas Ghebremichael-Weldeselassie, Lecturer of Statistics at School of Mathematics and Statistics, The Open University, UK

Watch This Seminar

Abstract:

We propose a modified self-controlled case series (SCCS) method to handle both event-dependent exposures and high event-related mortality. This development is motivated by an epidemiological study undertaken in France to quantify potential risks of cardiovascular events associated with COVID-19 vaccines. Event-dependence of vaccinations, and high event-related mortality, are likely to arise in other SCCS studies of COVID-19 vaccine safety. Using this case study and simulations to broaden its scope, we explore these features and the biases they may generate, implement the modified SCCS model, illustrate some of the properties of this model, and develop a new test for presence of a dose effect. The model we propose has wider application, notably when the event of interest is death.

Bio: Yonas Weldeselassie is a Lecturer of Statistics at School of Mathematics and Statistics, The Open University, UK. He graduated in statistics and demography from University of Asmara, Eritrea and went on to become an assistant lecturer in Mekelle University, Ethiopia, and then a Senior Research Fellow in Medical Statistics at Warwick Medical School, division of Population Evidence and Technologies. He earned a Msc in Biostatistics from Hasselt University, Belgium and PhD in statistics from the Open University, UK. After working as a research associate, on MRC project 'Software tools and online resources for the self-controlled case series method and its extensions', at the department of mathematics and statistics, the Open University since 2014, he joined Warwick Medical School in June 2017. His main research interest is in medical statistics specially in the methodological development and application of the self-controlled case series (SCCS) method. He published a book on SCCS with Paddy Farrington and Heather Whitaker, and he is currently working on early prediction of gestational diabetes mellitus.

ohdsi.org/cber-best-seminar-series







#OHDSI2024 Registration Is Open!

Registration is OPEN for the 2024 OHDSI Global Symposium, which will be held Oct. 22-24 at the Hyatt Regency Hotel in New Brunswick, N.J., USA.

Tuesday: Tutorials

Wednesday: Plenary/Showcase

Thursday: Workgroup Activities



ohdsi.org/OHDSI2024







The Center for Advanced Healthcare Research Informatics (CAHRI) at Tufts Medicine welcomes:



Melissa Haendel, PhD

Director of Precision Health & Translational Informatics and the Sarah Graham Kenan Distinguished Professor in the Department of Genetics at The University of North Carolina at Chapel Hill and co-founder of the Monarch Initiative and the National Covid Cohort Collaborative

'Journeys across the translational divide: making healthcare and basic research data interoperable'

July 25, 2024, 11am-12pm EST Virtually via Zoom





MONDAY

Advancing Certification and Evaluation of Medical Device Software in the EU using OMOP

(Frédéric Jung, Chang Sun, Mahmoud Ibrahim, Gökhan Ertaylan)

REALM – innovative solutions for the creation and **evaluation** of **AI medical device software.**

Title: Advancing Certification and Evaluation of Medical Device Software in the EU using OMOP.



Background: In the landscape of healthcare, the increasing complexity and autonomy of Medical Device Software (MDS) present significant challenges in their certification and post-market monitoring, particularly in adapting to real-world healthcare settings. To address these challenges, the REALM project, also known as Real-world-data enabled assessment for health regulatory decision-making, aims to provide a robust testing infrastructure for the evaluation and certification of MDS in the European healthcare industry. By emphasizing transparency through the use of OMOP (Observational Medical Outcomes Partnership) databases and extensions, REALM seeks to offer stakeholders and regulatory bodies detailed and transparent insights into the performance of Almodels embedded in MDS, crucial for ensuring trust and reliability in medical software solutions.

Figure1: REALM Partners across Europe



Figure2: REALM interoperability vision & harmonization plan.



REALM is a significant collaborative effort involving 15 partners across Europe (Figure 1). Within this providing AI models for evaluation of the REALM capabilities to generate relevant testing dataset and diversity of data types required by the demonstrators (and future AI models) REALM heavily rely on the OMOP CDM and Extensions (R-CDM - Park et al. 2022 & G-CDM - Shin et al., 2019) to harmonize source data (Figure 2) from the REALM data catalogue and provide a unique way to query and generate test datasets. Following this approach, REALM also plans to incorporate data from the embedded synthetic data generator and digital human twin into its evaluation framework. By integrating these additional diversity and richness of its testing datasets, providing performance across various healthcare scenarios

Conclusion: REALM's integration of diverse data sources using OMOP CDM together with the REALM's rigorous framework provide regulatory bodies with a powerful sandbox environment for a transparent and precise assessment of medical Als.





Frédéric Jung¹, Chang Sun², Mahmoud Ibrahim², Gökhan Ertaylan¹

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2) Institute of Data Science, Maastricht Universit Maastricht, the Netherland



#JoinTheJourney in ohdsi



TUESDAY

SNOMED overhaul and its impact on ETL and phenotyping

(Masha Khitrun, Alexander Davydov, Oleg Zhuk)

SNOMED overhaul and its impact on ETL and phenotyping

Masha Khitrun¹, Alexander Davydov¹, Oleg Zhuk¹ ¹Odysseus Data Services Inc., Cambridge, MA





adjustments to SNOMED vocabulary ETL logic and interventions on the content level have been necessary, leading to the accumulation of bugs and discrepancies over the years. The SNOMED load stage script that integrates the SNOMED into the OMOP vocabularies, has grown larger and more complex than anticipated, resulting in significant delays of OHDSI releases and a time lag between the OMOP version of SNOMED and

We present the results of a comprehensive overhaul of SNOMED in OHDSI vocabularies. This overhaul included both technical changes to the load stage, aimed at simplifying future releases, and content changes designed to optimize cohort creation and ETL process

Methods: The vocabulary development follows the guiding principles outlined in the Book of QHDSI³, ensuring adherence to established standards and practices within the QHDSI framework. Both developer² and end-user3 documentation is maintained and made publicly accessible on GitHub, allowing for transparency and collaboration within the community.

To assess the impact of vocabulary changes on ETL processes, we conducted a comprehensive analysis leveraging completed and ongoing ETL projects. This analysis provided insights into the challenges

Recognizing the significant impact of vocabulary changes on ETI 4 we employ analytical methods tailored to mitigate these challenges. These methods 5 accompanied by our internal quality control approach 6 which includes the collection of vocabulary statistics, and a bunch of specific vocabulary checks? enable us to address the implications of vocabulary updates on ETL workflows and phenotyping proactively

Table 1. Main changes implemented during the SNOMED overhaul and their estimated impact on ETL and Phenotypin

Changes	No. of concepts involved*	Impact on ETL	Impact on Phenotypes
Domain changes	24021	Low	High
De-standardization of concepts	3533	High	Low**
Split of pre-coordinated measurements and allergies	5357	Medium	High
Mapping of secondary neoplasms to Cancer Modifier	1042	High	High
Mapping following replacement links	9393	Low	Low
Retirement of the UK Drug Extension Module	464010	Possible	Low





- ment was improved in its stability and consistency (Figure 1). As a result of this change, you may need to change the tables of interest (eg. querying Condition occurence instead of Observation the process of cohort creation. However, semantic "grey zones" still exist, where the domain assignment is a matter of debate due to the ambiguity of concept interpretation. Domain flows (Table 2) in these grey zones were discovered using analytical methods⁵ and domain improvement here is a constant iterative process
- measurements, you should now start looking into the Measurement table where these concents live as the Measurement / Value pairs
- Secondary neoplasms were mapped to Standard concepts in Cancer Modifier vocabulary that belong to the Measurement domain. Thus, now you should look into the Measurement domain.
- In the course of the overhaul 110 SNOMED concepts in the Measurement domain, mainly representing vital sign measurements, were mapped to the Standard LOINC concepts. These mappings are erron SNOMED has a higher position in the hierarchy than LOINC, and they may affect the hierarchy of measurements. These issue is supposed to be solved in the course of the next releas
- We improved the creation of 'Maps to' relationships following the SNOMED sources' replacement links. As a result of this change, more concepts are now mapped to Standard (Figure 3), and the number of events.
- Concepts that belong to Attribute, Location (except countries), Social Context (except concepts that carry the semantics of relatives, religion, occupation), Physical Force, and Physical Object (except concepts that carry the semantics of relatives, religion, occupation), Physical Force, and Physical Object (except concepts that carry the semantics of relatives, religion, occupation), Physical Force, and Physical Object (except concepts that carry the semantics of relatives, religion, occupation), Physical Force, and Physical Object (except concepts that carry the semantics of relatives, religion, occupation), Physical Force, and Physical Object (except concepts that carry the semantics of relatives, religion, occupation), Physical Force, and Physical Object (except concepts that carry the semantics of relatives, religion, occupation), Physical Force, and Physical Object (except concepts that carry the semantics of relatives, religion, occupation), Physical Force, and Physical Object (except concepts that carry the semantics of relatives, religion, occupation), Physical Force, and Physical Object (except concepts that carry the semantics of relatives, religion, occupation), Physical Force, and Physical Object (except concepts that carry the semantics of relatives, religion, occupation), Physical Force, and Physical Object (except concepts that carry the semantics of relatives). Device domain) concent classes have been de-Standardized in the course of the overhaul

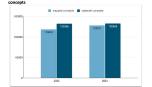


Table 2. Changes of domains for Standard SNOMED concepts over 2020-2024 years

2020	2021	2022	2023	2024	count
Condition	Condition	Condition	Condition	Observation	14216
Observation	Observation	Observation	Observation	Meas Value	2796
Observation	Observation	Measurement	Measurement	Measurement	1978
Observation	Observation	Observation	Observation	Measurement	1589
Procedure	Procedure	Procedure	Procedure	Observation	1308
Condition	Condition	Condition	Condition	Measurement	847
Observation	Observation	Observation	Language	Language	834
Observation	Observation	Observation	Observation	Procedure	614
Observation	Observation	Drug	Drug	Observation	500
Procedure	Procedure	Procedure	Procedure	Measurement	410
Condition	Condition	Observation	Observation	Observation	259

The overhaul of the SNOMED vocabulary in OMOP has yielded significant improvements in ontology structure, cohort creation, and mapping efficiency. These enhancements contribute to more accurate data analysis domain assignments and concept mappings may require updates to existing ETL workflows, and researchers should carefully review their phenotyping algorithms to ensure compatibility with the updated vocabulan

- 1. Observational Health Data Sciences and Informatics. The Book of OHDSI.
- 2. https://github.com/OHDSI/Vocabulary-v5.0/tree/master/SNOMED
- 3. https://github.com/OHDSI/Vocabulary-v5.0/wiki/Vocab.-SNOMED
- https://forums.ohdsi.org/t/cpt-hierarchy-errors-lost-children-in-2023-and-changed-domains/18383
- 5. Dmitry Dymshyts, Frank DeFalco, Anthony Molinaro, Clair Blacketer, An Evaluation and maintenance of cohorts and concept sets in the OMOP Vocabulary Evolution, July 2023, Conference; OHDS
- https://github.com/OHDSI/Vocabulary-v5.0/tree/master/working/packages/QA_TESTS
- https://github.com/OHDSI/Vocabulary-v5.0/blob/master/working/manual checks after generic update.sql
- https://github.com/OHDSI/Vocabulary-v5.0/releases/tag/v20240229_1709217174.000000





^{*} Overall number of SNOMED concepts: 1 084 28



WEDNESDAY

OMOPification of real world cancer data to enable privacy-preserving analytics for cancer research

(Prabash Galgane Banduge, Anne-Lore Bynens, Cedric Gillissen, Andre Dekker, Petros Kalendralis, Pascal Suppers, Alberto Traverso, Lizza Hendriks, Aiara Lobo Gomes)

Challenges in harmonising data across multiple biobanks

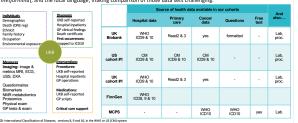
Karyn Mégy¹, Rebecca Akhanemhe¹, Ben Hollis¹, Ali Abbasi¹, Amanda O'Neill¹, Shikta Das¹, Stewart MacArthur¹, Sean O'Dell¹ Sebastian Wasilewski1, Quanli Wang2, Slavé Petrovski1, Jen Harrow1.

Early-stage incorporation of human genomic data into the assessment of drug targets has been shown to significantly increase drug pipeline success rates

Large biobanks such as UK Bioban combining genetic and clinical data on 0.5 pportunity to evaluate effects of genetic

source, combining genetic and phenotypic describes the challenges faced when

UK Biobank (UKB) is one of the golden standard, in terms of data diversity, sources but also coding systems. Howeve it is very reflective of the UK population and health care system. Biobanks from different countries will be using different coding system, different units (e.g. Hba1c: mmol/mol vs. %), medication names (e.g. metformin vs. metforming), and the local language, making comparison of those data sets challenging.



E.g.2: mapping across ontologies, from UKB ICD9 to ICD10

community (manuscript in preparation)

UK Biobank diagnoses are encoded both in the ICD9 and in ICD10 WHO

classifications. Following our harmonisation process, we have mapped the ICD9

terms present in the UKB data set to ICD10 and, according to the FAIR principles,

are returning the results to UK Biobank so that they can be shared with the

⇒ In total, we mapped 751 ICD9 codes to 573 unique ICD10 codes, with 85%



We mapped one of our data sets, a small disease-oriented resource, to UK Biobank. An initial mapping was done manually, following the process described above, high-quality but timely. As a test, we then performed NLP (Natural Language Processing) on that same data set, reducing the mapping time from months to a week, however <50% of terms could be mapped

=> NLP followed by manual mapping would be most efficient strategy in term of

time and acc The final ma	curacy. pping will be transformed into the OMOP common	data model	having a 1:1 mapping.
Approach	Description	Example	Challenge #1 Challenge #2 "not elsewhere classified" category restructuration
Text-to-text match	Exact Text match	'Age' = 'Age at recruitment'	59 Other discrimed of workers and refearsy then! Street Charge years of particular control operation of the control of the co
Partial text match	Step 1: Sub-word matching, part of substring matches Field ID Step 2: Sub-word matching and matching all words present in column	'Supplement' = 'Supplements' 'weight loss' = 'loss in weight'	Set Uniform Cert Flants - Uniform Cert Flant
Rule-based match	Identify key terms and match to UKB Field ID Layer 1. Age or family history-based fields can be identified using 'age', 'm', 'elevative /imether' terms Layer 2. Diseases and symptoms can be identified using order or the concept of the control of	20002 (self-reported non- cancer)	Warman

- > Harmonising data sets require to understand the data and adapt the strategy when needed. > NLP followed by manual mapping is be most efficient strategy for mapping across cohorts
- > Importance of return of data for use by the community (FAIR principle)

> Gap in OMOP: mapping of images & medications

Acknowledgements - We would like to thank the participants and investigators in the UK Biobank study who made this work possible

AstraZeneca 2







THURSDAY

The association between comorbid depression and insulin initiation in type 2 diabetes A cohort OHDSI study

(Christianus Heru Setiawan, Daniel C.A. Nugroho, Phan Thanh Phuc, Septi Melisa, Muhammad Solihuddin Muhtar, Nguyen Phung Anh, Jason C. Hsu)

The study found a significant correlation between depression and a higher probability of initiating insulin treatment, with an initial hazard ratio of 1.38.

The association between comorbid depression and insulin initiation in type 2 diabetes: A cohort OHDSI study

Background: Individuals diagnosed with type 2 diabetes have a higher risk of experiencing depression compared to those without the condition. Hyperglycemia-induced neurochemical dysregulation promotes the progression of type 2 diabetes. Furthermore, depression can lead to poor outcomes and may cause insulin resistance. This comorbidity may fail diabetes oral medications, and insulin therapy may be required.

Result: We analyzed data from 35,589 patients, and after PS matching (1:4), we obtained 1903 patients for the target group and 58: patients for the comparator group. We examined the association between depression comorbid with the outcome of insulin initiation. Depression was found to be significantly associated with insulin initiation, with a hazard ratio of 1.38 (95% CI: 1.11, 1.71).

Figure 1. The Kaplan Meier plot shows the estimated incidence of first initiation of insulin use. Patients with type 2 diabetes and depression are on the target curve (blue line), while those with type 2 diabetes are on the comparator curve (red line).

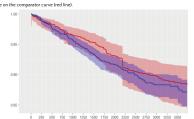
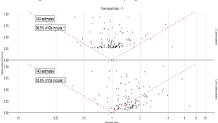
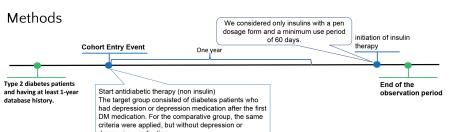


Figure 2. Empirical calibration plots where estimates below the dashed line are statistically significant (alpha – 0.05) different from the true effect size. There are two images in the picture, the below showing uncalibrated estimates and the above depicting calibrated estimates.



T2DM and depression patients 1,903 1,795 1,661 1,531 1,402 1,258 1,141 1,042 934 829 704 578 476 391 298
T2DM patients 5,857 5,288 4,844 4,399 3,903 3,445 3,055 2,743 2,431 2,135 1,836 1,491 1,183 925 719



Limitation: Furthermore, after refining the findings using negative controls, the effect size estimates were recalibrated, revealing no significant difference in the hazard of insulin initiation after calibration. This recalibrated outcome indicates a hazard ratio of 0.92, suggesting that the observed connection between depression and insulin initiation may be more complex than initially thought, possibly influenced by unmeasured confounding factors.



Christianus Heru Setiawan, Daniel C.A. Nugroho, Phan Thanh-Phuc, Septi Melisa, Muhammad Solihuddin Muhtar, Nguyen Phung-Anh, Jason C. Hsu









FRIDAY

Empowering research with seamless data flow and research-ready, anonymised data in OMOP CDM: Learnings from the design of WAYFIND-R, a global precision oncology registry and research platform

(Tom Stone, Yuri Pyatkin, Ana Ferro, Dimitar Toshev)

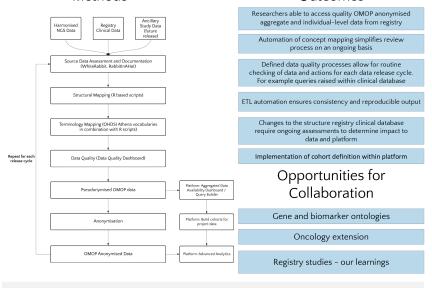


Empowering research requires seamless delivery of high quality data. The WAYFIND-R® platform enables automation and accelerates insights generation from primary data collection to research-ready data.

Title: Empowering research with seamless data flow and research-ready, anonymised data in OMOP CDM: Learnings from the design of WAYFIND-R, a global precision oncology registry and research platform

Background: WAYFIND-R is a global precision oncology registry (NCT04529122) and has the aim to advance science and provide the scientific community worldwide with access to real-world data, enabling epidemiological and clinical research, and collaborations across research groups. The WAYFIND-R® Data Sharing and Collaboration Platform enables researchers to access anonymised clinico-genomic data from the registry transformed to the OMOP CDM within a secure research environment.

Methods Outcomes



Acknowledgements:

We thank the patients and their families who take part in WAYFIND-R, as well as the staff, research coordinators, and investigators at each participating institution.



Tom Stone¹, Yuri Pyatkin², Ana Ferro¹, Dimitar Toshev²

Roche Products Limited, Welwyn Garden City, UK; ²F. Hoffmann-La Roche Ltd, Basel, Switzerland

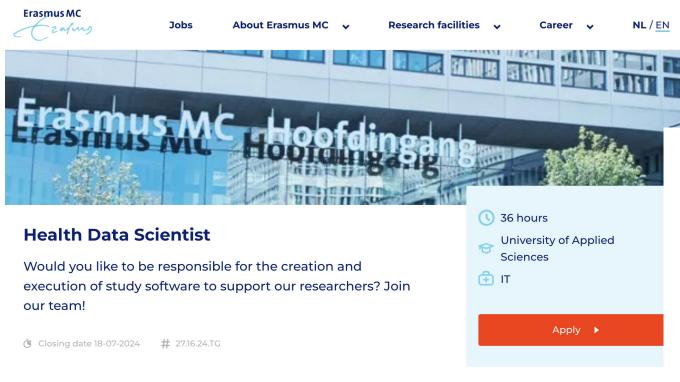








Opening: Health Data Scientist, Erasmus MC



Job description

The Health Data Science group at the department of Medical Informatics is looking for an experienced R programmer to develop open-source analytics.

You will be responsible for the creation and execution of study software to support the work of epidemiologists. This will include designing, developing, documenting, and maintaining R code that will be executed against health data that is standardized to the OMOP Common Data Model (OMOP-CDM). This data model is maintained by the Observational Health Data Sciences and Informatics (OHDSI, www.ohdsi.org) initiative. The Department is leading the Data Analysis and Real World Interrogation Network coordination centre (DARWIN EU®) in which a large data network is created with data sources that are mapped to the OMOP-CDM. The aim of this network is to provide fast and reliable evidence to the European Medicines Agency. Your work will enable the use of health data at an unprecedented scale in Europe and will facilitate the execution of impactful studies to improve patient care. We recommend applicants to review the DARWIN EU® software packages to get an understanding of the growing set of R packages.





Opening: Sr AD, Real World Evidence & Analytics Boehringer Ingelheim

SR AD, Real World Evidence & Analytics

Apply Now

< Back

JOB ID - 13278

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.







Opening: Lead Director, RWE Distributed Research CVS Health

Lead Director, RWE Distributed Research

Apply

Hybrid

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Our Heart At Work Behaviors™ support this purpose. We want everyone who works at CVS Health to feel empowered by the role they play in transforming our culture and accelerating our ability to innovate and deliver solutions to make health care more personal, convenient and affordable.

About us



Our Work Experience is the combination of everything that's unique about us: our culture, our core values, our company meetings, our commitment to sustainability, our recognition programs, but most importantly, it's our people. Our

Read More ~



Openings: Postdoctoral Fellow, Johns Hopkins Univ.

PHARMACOEPIDEMIOLOGY POST-DOCTORAL TRAINING PROGRAM

Co-Directors: Caleb Alexander, MD, MS and Jodi Segal, MD, MPH

The **Pharmacoepidemiology Training Program** at the Johns Hopkins Bloomberg School of Public Health (BSPH) is currently **seeking to support <u>postdoctoral fellows</u>**. All supported trainees work with core faculty on existing or newly developed research projects on pharmacoepidemiology, so as to optimize the safe and effective use of medicines to treat heart, lung and blood diseases in the United States.

Deadline for applications: rolling



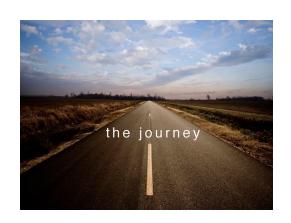






Where Are We Going?

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 16: HowOften Initiative & Early Results



Hsin Yi "Cindy" Chen
MD-PhD Student
Columbia University Department of Biomedical Informatics



Azza Shoaibi
Director, Observational Health Data Analytics
Janssen Research and Development



Elise Ruan
Clinical Informatics Fellow
NewYork-Presbyterian Hospital/Columbia University



George Hripcsak
Professor of Biomedical Informatics
Columbia University



The weekly OHDSI community call is held every Tuesday at 11 am ET.

Everybody is invited!

Links are sent out weekly and available at: ohdsi.org/community-calls

