OHDSI
OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS

Nigel Hughes, Director, Observational Health Data Analytics at Janssen Research & Development; Project Lead, EHDEN, **on behalf of OHDSI Europe Group**

OHDSI Europe/Erasmus MC Team

SS Rotterdam

The fifth **SS *Rotterdam***, also known as "The Grande Dame", is a former ocean liner and cruise ship, and has been a hotel ship in Rotterdam, Netherlands since 2010. She was launched by Queen Juliana of the Netherlands in a gala ceremony on 13 September 1958, and was completed the following summer. The *Rotterdam* was the last great Dutch "ship of state", employing the finest artisans from the Netherlands in her construction and fitting out process. Her career spanned forty-one years. She sailed from 1959 until her final retirement in September 2000.

SS Rotterdam - Wikipedia

OHDSI Europe 2022, SS Rotterdam/Erasmus MC

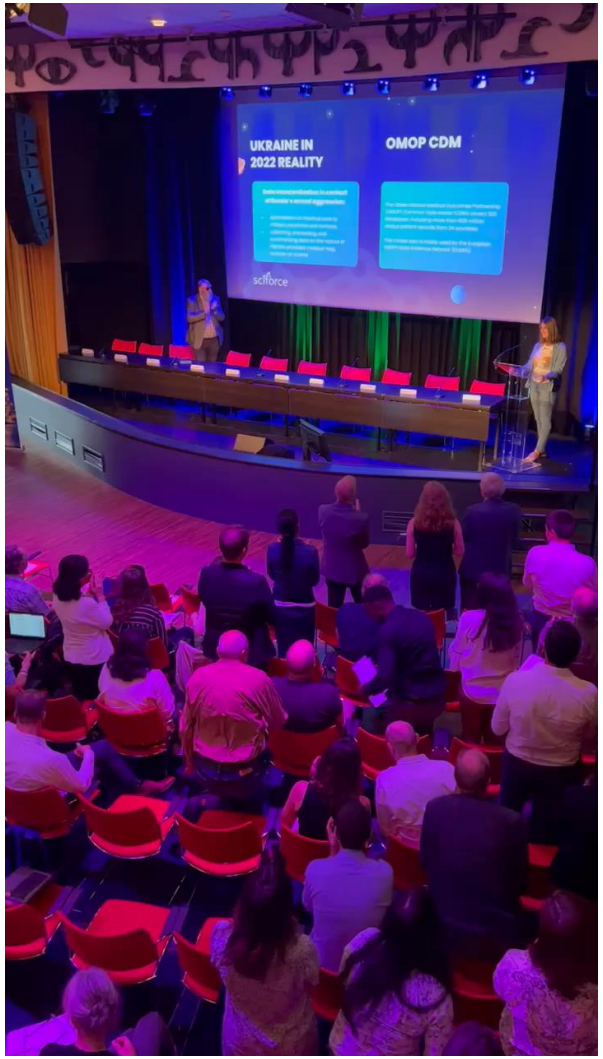
- ~350 delegates from around the world
- 24 plenary presentations
- ~80 posters
- Exhibitor showcase of companies, SMEs and projects
- Full day workshop: Myocarditis Characterisation study
- 8 Work Group/Special Interest sessions
- Data Partner/SME Community Lunch
- A whole community aboard ship and at Erasmus MC focused on beyond the CDM and evidence generation

Day One: Symposium Agenda #1

9:00 – 9:10	Welcome to the European OHDSI Journey Speaker: Peter Rijnbeek, PhD, Chair, Department of Medical Informatics, Erasmus MC
9:10 – 9:40	Journey of OHDSI: Where have we been? Speaker: George Hripcsak, MD, MS, Vivian Beaumont Allen Professor and Chair, Biomedical Informatics, Columbia University Medical Center
9:40 – 11:00	A Cruise around the OHDSI Europe Community Moderator: Nigel Hughes, Janssen Research and Development 1. **Estonia.** Conversion of Estonian health data into the OMOP CDM Speaker: Marek Oja, Institute of Computer Science, University of Tartu 2. **Finland.** The Finnish OMOP data network (FinOMOP) Speaker: Javier Gracia-Tabuenca, FinnGen 3. **Denmark.** Transforming Danish Registries to the OMOP Common Data Model: use case on the Danish Colorectal Cancer Group (DCCG) Database Speaker: Adamantia Tsouchnika, Center for Surgical Science, Zealand University Hospital 4. **Norway.** Norwegian registries onto OMOP Common Data Model: mapping challenges and opportunities for pregnancy studies Speaker: Eimir Hurley, University of Oslo 5. **Germany.** OHDSI Germany: A recap after one year Speaker: Michele Zoch, Technische Universität Dresden 6. **Italy.** The Italian national node of OHDSI Europe Speaker: Lucia Sacchi, University of Pavia 7. **Greece.** An update from the Greek National Node Speaker: Pantelis Natsiavas, Centre for Research & Technology Hellas 8. **Ukraine.** Integration prospects of the Ukrainian healthcare system with OMOP CDM Speaker: Mariia Kolesnyk, SciForce 9. **Israel.** The journey from isolated EHR's to unified CDM network Speaker: Guy Livne, Israel Ministry of Health 10. **France.** The Health Data Hub, the French national gateway for an easy, unified, transparent and secure access to health data Speaker: Lorien Benda, Health Data Hub

11:30 – 12:45	Rapid fire presentations of collaborators Moderator: Katia Verhamme, MD, Associate Professor of Use and Analysis of Observational Data, Department of Medical Informatics, Erasmus MC, Rotterdam. 1. ***FeederNet (Federated E-Health Big Data for Evidence Renovation Network) platform in Korea*** *Speaker: Chungsoo Kim, Ajou University* 2. **OMOP Genomic mapping capacities in conversion of comprehensive genomic profiling results** Speaker: Maria Rogozhkina, Odysseus 3. **OMOP Mapping of Real-World Data from Brazil & Pakistan Towards Management of COVID-19 In the Global South** Speaker: Sara Khalid, University of Oxford 4. **Impact of random oversampling and random undersampling on the development and validation of prediction models using observational health data** Speaker: Cynthia Yang, Erasmus MC 5. **Real-world evidence is in demand: a summary of 'live' requests for RWE studies published by a European health technology assessment (HTA) agency** Speaker: Jamie Elvidge, National Institute for Health and Care Excellence (NICE) 6. **Why predicting risk can't identify 'risk factors': empirical assessment of model stability in machine learning across observational health databases** Speaker: Aniek Markus, Erasmus MC 7. **TrajectoryViz: Interactive visualization of treatment trajectories** Speaker: Maarja Pajusalu, Institute of Computer Science, University of Tartu 8. **Assessing treatment effect heterogeneity using the RiskStratifiedEstimation R-package** Speaker: Alexandros Rekkas, Erasmus MC 9. **Defining the valid analytic space for quantitative bias analysis in pharmacoepidemiology** Speaker: James Weaver, Janssen R&D 10. **A pilot study to evaluate the feasibility of using Observational Health Data Sciences and Informatics analytics tools for supporting the validation of safety signals** Speaker: Ceyda Pekmez Kristiansen, Novo Nordisk
12:45 – 13:00	Findable, standardized data at scale through the EHDEN Database Catalogue Speaker: Julia Kurps, The Hyve
13:00 – 14:00	Lunch
13:00 – 16:15	**OHDSI Collaborator Showcase** **Poster presentations and open-source software demonstrations from OHDSI collaborators:** - **Observational data standards and management** - **Open-source analytics development** - **Clinical applications** - **Methodological research**

A Cruise Around The OHDSI Europe Community

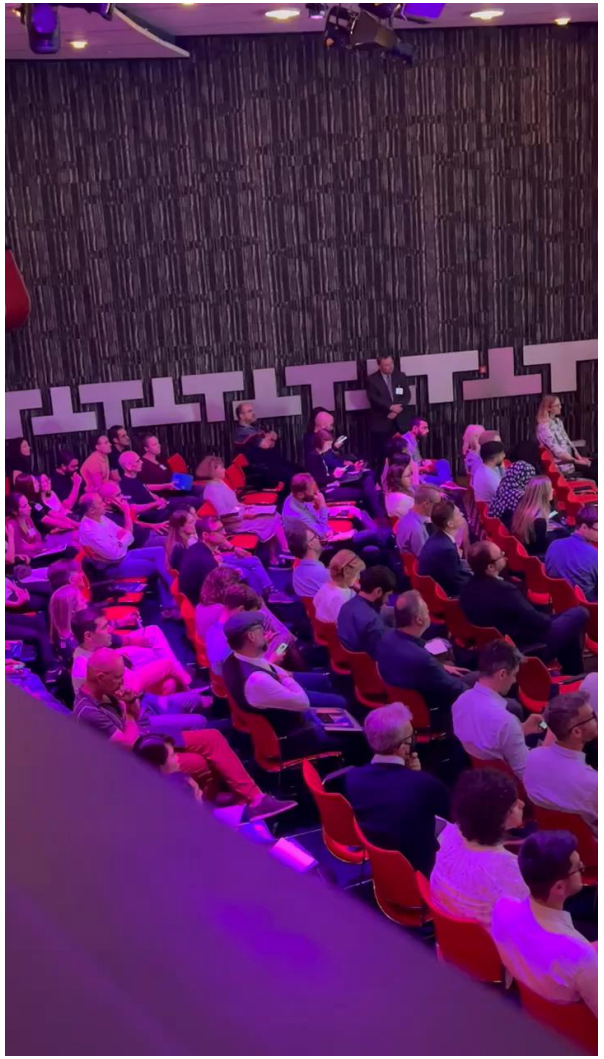


Key Themes:

- CDM as a means to an end
- Evidence generation for local and international needs
- Key for many, funding & SME support

Key Themes:

- From the bedside to public health
- Countries starting to organise into national nodes
- Long tale approach to ETL's



Day One: Rapid fire presentations

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Remarkable collaboration between Pakistan and Brazil datasets

RWE need rising in Health Technology Assessment – a new frontier

Be wary of training datasets and vagaries of risk factor prediction

A vexed area of epidemiology requiring renewed attention

Fascinating work in Pharma on safety signal validation

~80 posters covering:

- Data standards & management
- Open source analytics development
- Clinical applications
- Methodological research

EHDEN

EUROPEAN HEALTH DATA & EVIDENCE NETWORK

- Findable, standardised data at scale through the EHDEN Database Catalogue -

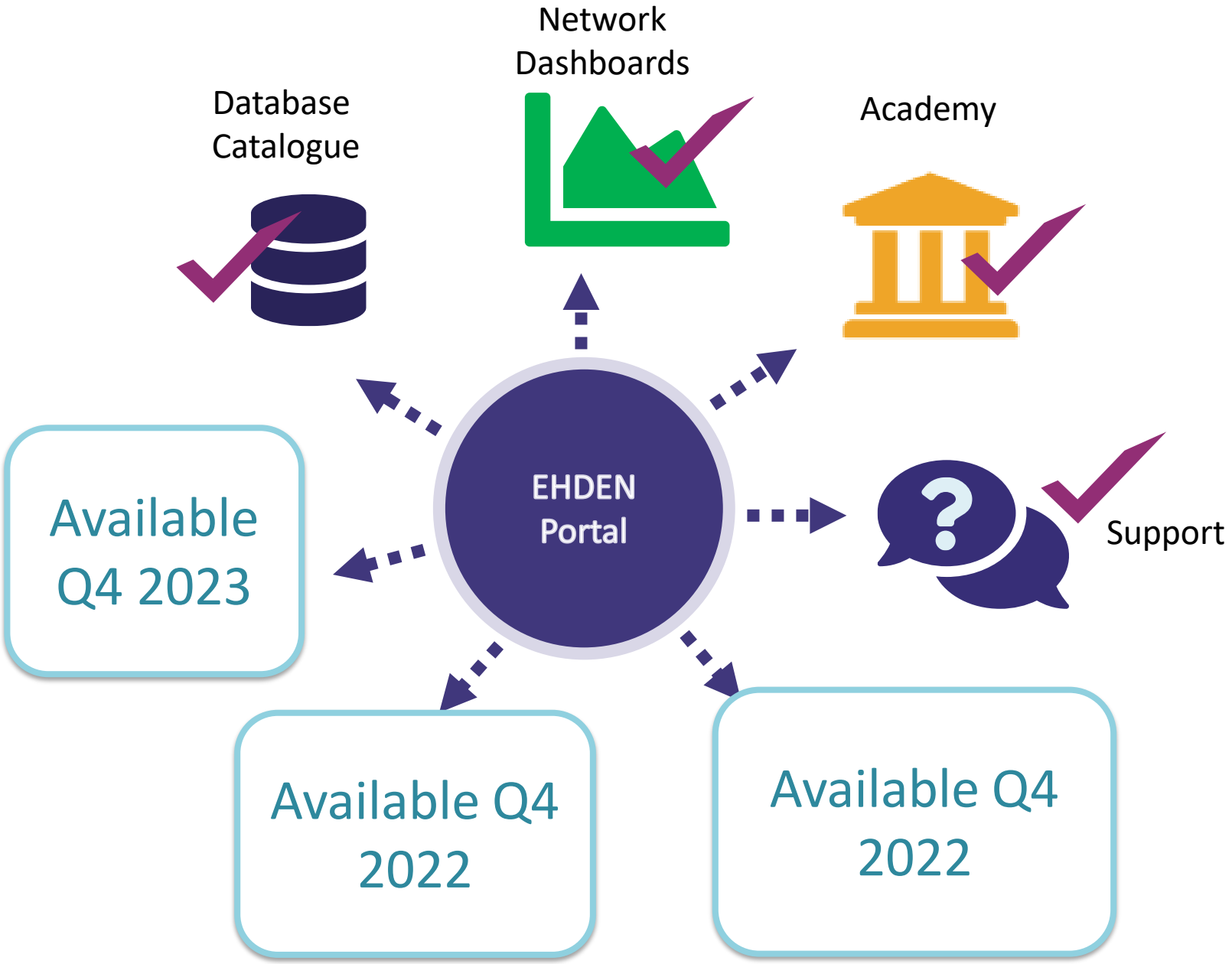
24 June 2022

Julia Kurps, The Hyve

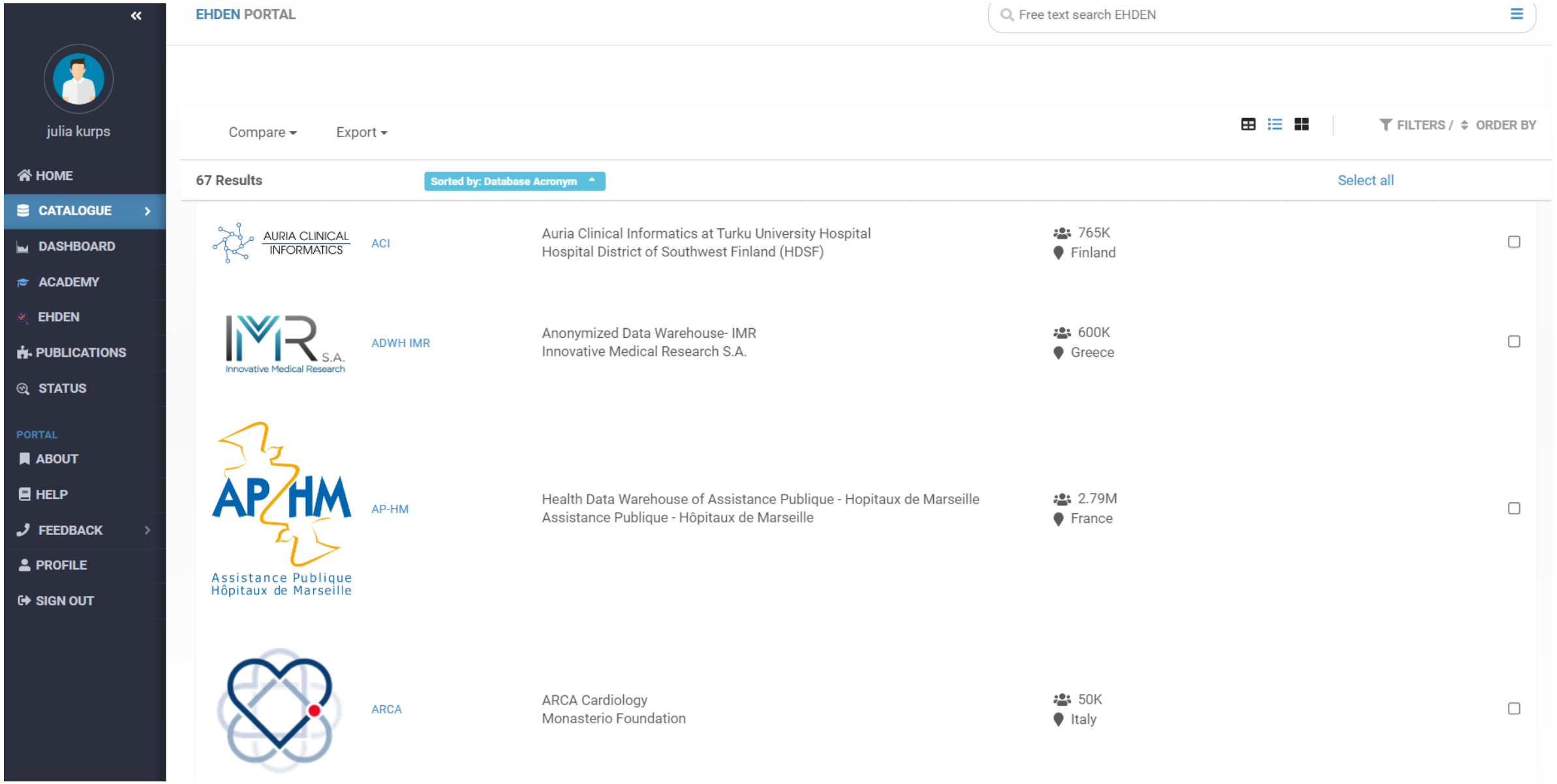
imi innovative medicines initiative

efpia

EHDEN Portal Release Today



DATABASE CATALOGUE – 67 DATA PARTNERS…AND COUNTING



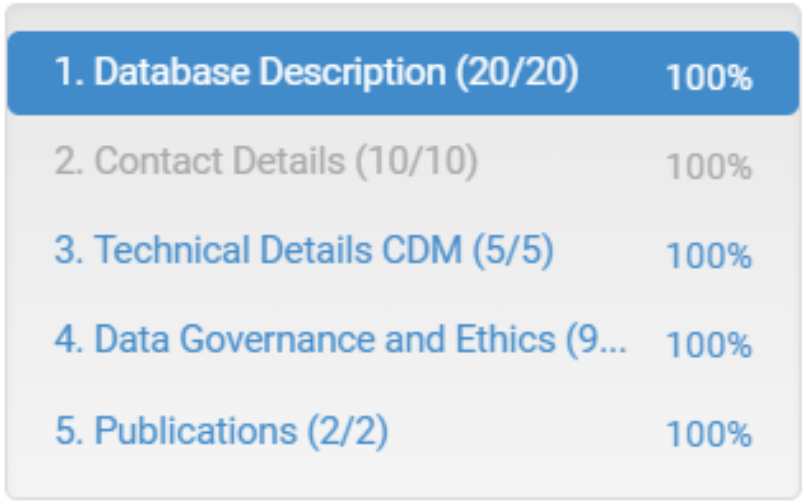
Components Of the Database catalogue

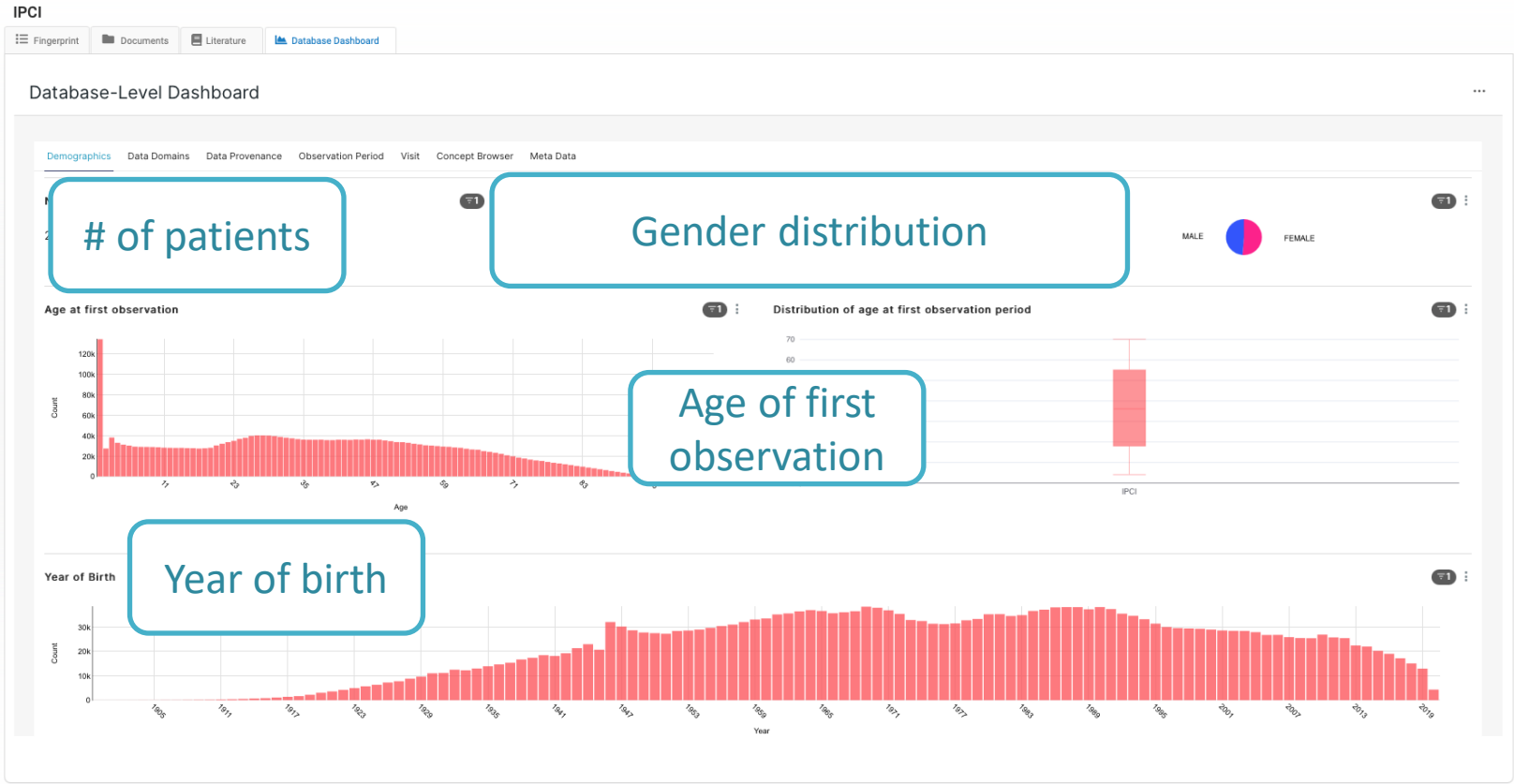
Database Fingerprint

- meta data -

Database Dashboards

- based on CDM data -





OHDSI Europe Posters #1

National notes		
1 A	Conversion of Estonian health data into the OMOP CDM: insurance claims, prescription data and electronic health records	Marek Oja, Sirli Tamm, Sulev Reisberg, Raivo Kolde, Sven Laur, Hendrik Šuvalov, Harry-Anton Talvik, Jaak Vilo
2 A	The european health data &evidence network (ehden)–sharing the ohdsi journey and a vision of evidence today, not in several tomorrows	N. Hughes, D. Prieto-Alhambra, C. Diaz, P. Rijnbeek, on behalf of the EHDEN Consortium
3 A	FeederNet (Federated E-Health Big Data for Evidence Renovation Network) platform in Korea	Seongwon Lee, Chungsoo Kim, Junhyuk Chang, Rae Woong Park
4 A	The Finnish OMOP data network (FinOMOP)	Anna Hammais, Persephone Doupi, Sampo Kukkurainen, Perttu Koskenvesa, Javier Gracia-Tabuenca, Oscar Brück, Leena Hakkarainen, Annu Kaila, Gustav Klingstedt, Kalle Kollin, Juha Koski, Jan Magnusson, Toni Mikkola, Pasi Rikala, Simo Ryhänen, Max Salmi, Ilona Siljander, Pia Tajanen, Juha-Matti Varjonen, Arto Vesterbacka, Arto Vuori, Arho Virkki, Tarja Laitinen, Kimmo Porkka
5 A	The journey from central operational data-lake to Medica Centers CDM network	Guy Livne, Nadav Rappoport, Nir Makover, Hadas Eshel-Geva, Hadar Kapach, Tomer Hadad, Yarin Alon, Naama Perry-Cohen
6 A	Integration prospects of the Ukrainian healthcare system with OMOP CDM	Tetiana Aleksandrova, Polina Talapova, Denys Kaduk, Maksym Trofymenko, Mariia Kolesnyk, Inna Ageeva, Max Ved
7 A	Norwegian registries onto OMOP Common Data Model: mapping challenges and opportunities for pregnancy studies	Nhung Trinh, Jared Houghtaling, Fabian Leonardo Martinez Bernal, Eimir Hurley, Emma Gesquiere, Lars Halvorsen, Hedvig Marie Egeland Nordeng
8 A	Transforming Danish Registries to the OMOP Common Data Model: use case on the Danish Colorectal Cancer Group (DCCG) Database	Adamantia Tsouchnika, Maliha Mashkoor, Andreas Weinberger Rosen, Eldar Allakhverdiiev, Jared Houghtaling, Freija Descamps, Mikail Gögenur, Viviane Annabelle Lin, Johan Stub Rønø Clausen, Karoline Bendix Bräuner, Julie Sparholt Walbech, Soham Ravindra Shinde, Ismail Gögenur
9 A	Semantic harmonization of the French National healthcare database (SNDS)	Lorien Benda, Cécile Roseau, Nicolas Thurin, Stéphanie Combes
10 A	OHDSI Germany: A recap after one year	Elisa Henke, Yuan Peng, Najia Ahmadi, Joshua Wiedekopf, Mareike Przysucha, Josef Schepers, Martin Sedlmayr, Ines Reinecke
11 A	OHDSI Italia: the Italian national node of OHDSI Europe	Lucia Sacchi

OHDSI Europe Posters #2

Observational data standards and management		
12 A	PHAROS, Platform for Harmonizing and Accessing Data in Real-time on Infectious Disease Surveillance Based on OMOP-CDM in Korea	Chungsoo Kim, Jimyung Park, Seongwon Lee, Rae Woong Park
13 A	Ensuring Data Quality in a Federated Data Network	Wout Vekemans, Michel Van Speybroeck
14 A	Applying k-anonymity and l-diversity in OMOP CDM databases	João Rafael Almeida, José Luís Oliveira
15 A	OMOP Genomic mapping capacities in conversion of comprehensive genomic profiling results	Maria Rogozhkina
16 A	Mapping PROMs data from the Dutch PROFILES registry to the OMOP CDM - experiences and challenges	Peter Prinsen, Chiara Attanasio, Corina van den Hurk, Nicole Horevoorts, Sebastiaan van Sandijk
17 A	OMOP project evolvement at Technische Universität Dresden over the past years	Ines Reinecke, Michéle Zoch, Yuan Peng, Elisa Henke, Najia Ahmadi, Martin Sedlmayr
18 A	Performance Improvement on mapping CPRD GOLD to OMOP CDM	Barrack Omondi, Daniel Prieto-Alhambra, Antonella Delmestri
19 A	OMOP CDM for European rare disease registries	Rowdy de Groot, Nirupama Benis, Pablo Alarcon, Rajaram Kaliyaperumal, Marco Roos, Ronald Cornet, Nuria Queralt-Rosinach
20 A	Challenges and solutions in using OMOP CDM to FAIRify a Dutch ICU quality registry	Daniel Puttmann, Nicolette de Keizer, Ronald Cornet, Eric van der Zwan, Ferishta Bakhshi-Raiez
21 A	A standard ETL process from REDCap to OMOP	Francesco Pozzoni, Matteo Gabetta, Mauro Bucalo, Nicola Barbarini
22 A	Current Status of OMOP-CDM in Asia-Pacific regions and Lessons for Data Quality Assessment: Collaborative CDM Inspection Study	Chungsoo Kim, Seongwon Lee, Jing Li, Can Yin, Jiawei Qian, Clair Blacketer, Anthony Molinaro, Dinuja Willigoda Liyanage, Mui Van Zandt, Rae Woong Park
23 A	Mapping UKB to the OMOP CDM: Challenges and Solutions	Sofia Bazakou, Maxim Moinat, Alessia Peviani, Anne van Winzum, Stefan Payralbe, Vaclav Papez, Spiros Denaxas
24 A	Mapping of complex constructs in OMOP CDM	Alexander Davydov, Christian Reich
25 A	Challenges and possible solutions for the maintenance of the OMOP CDM Standardized Vocabularies	Eduard Korchmar, Mariia Kolesnyk, Polina Talapova, Denys Kaduk
26 A	Mapping concepts from the Netherlands Cancer Registry to the OMOP-CDM - experiences and challenges	Chiara Attanasio, Floor Klijn, Jennifer Caffarel, Peter Prinsen
27 A	Common data environment for source vocabularies mapping	Irina Zherko
28 A	Pregnancy extension table in the OMOP CDM	Alicia Abellan, Edward Burn, Nhung Trinh, Sergio Fernández-Bertolín, Eimir Hurley, Daniel R. Morales, Hedvig Marie Egeland Nordeng, Talita Duarte-Salles
29 A	Comparing Data Quality Dashboard results from consecutive ETL iterations: two new visualizations and one utility script	Elena G. Lara, Maxim Moinat, Anne van Winzum
30 A	An EHDEN Data Partner Experience: Transforming the Hospital i2b2 data repository into OMOP common data model	Maria Teresa García Morales, Miguel Pedrera Jimenez, Noelia García Barrio, Diego Boscá Tomás, Pablo Serrano Balazote, David Lora Pablos, Agustín Gómez de la Cámara

OHDSI Europe Posters #3

Open-source analytics development		
31 A	A dashboard for visual comparison of OMOP CDM databases	André Pedrosa, João Rafael Almeida, Michel Van Speybroeck, Maxim Moinat, Peter R. Rijnbeek, José Luís Oliveira
32 A	The EHDEN Platform Roadmap	Michel Van Speybroeck, Maxim Moinat, Julia Kurps, Sebastiaan Van Sandijk, José Luis Oliveira, Peter Rijnbeek
33 A	CohortsExport: A Shiny app to explore and export data from the OMOP Common Data Model	Vittoria Ramella, Matteo Gabetta, Nicola Barbarini
34 A	EHDEN Academy – a global educational collaboration with OHDSI	Nigel Hughes, Henrik John, Michela Miani, Inari Soininen, Richard Tischler, Patrick Ryan, Peter Rijnbeek
35 A	Two Hurdles in delivery of productised analytics	J Brewster, J Li, Sarah Seager, Christian Reich
36 A	Miniaturizing Data Harmonization; Methods to Facilitate Training in the OMOP Data Ecosystem	Emma Gesquiere, Jared Houghtaling, Ivo Mbi Kubam, Frederic Jung, Ben Burke, Freija Descamps, Lars Halvorsen
37 A	The EHDEN Portal – an entry web platform for OMOP CDM resources	João Rafael Almeida, André Pedrosa, Nigel Hughes, Peter Rijnbeek, José Luís Oliveira
38 A	OHDSI-On-A-Pi: Containerization of OHDSI Software Tools for Use on a Raspberry Pi	Jared Houghtaling, Lars Halvorsen
39 A	Perseus Design and run your own ETL to CDM	Anton Ivanov, Samus Sergey, Alexander Efimov, Maxim Draschinsky
40 A	From ATLAS to predictive modeling CDM data extracting & Study preparations	Guy Livne, Nadav Rappoport, Nir Makover, Hadas Eshel-Geva, Hadar Kapach, Tomer Hadad, Yarin Alon , Naama Perry-Cohen
41 A	Mapping UK Biobank to the OMOP CDM: development of USAGI	Maxim Moinat, Sofia Bazakou

Software demonstrations		
42 A	ARACHNE Network - Federated Study Execution	Gregory Klebanov, Alexey Manoylenko, Sebastiaan van Sandijk
43 A	Towards Data Visualization in Cancer Research Using the Oncology Extension: Episodes in Lung Cancer Comparing Synthetic And Real World Data	Matteo Gabetta, Francesco Pozzoni, Rita De Molfetta, Tommaso Mario Buonocore, Miguel Pedrera Jiménez, Noelia García Bario, Blanca Baselga Peñalva, María Teresa García Morales, Diego Boscá Tomás, Paula Rubio Mayo, Alberto Tato Gómez, Víctor Quirós González, Luis Gonzaga Paz-Ares Rodríguez, Pablo Serrano Balazote, Jose Luis Bernal Sobrino, Martine Lewi, Jose-Felipe Golib-Dzib

OHDSI Europe Posters #4

Clinical applications		
1 B	Pharmacological treatment pathways of chronic cough in adults in primary care in the Netherlands: A population-based study	Johnmary T. Arinze, Solomon Ioannou, Aniek F. Markus, Guy Brusselle, Peter R. Rijnbeek, Katia M.C. Verhamme
2 B	TROY: Trials Replication through Observational study by Yonsei	Jaehyeong Cho, Chungsoo Kim, Kyulee Jeon, Ju-Young Shin, Rae Woong Park, Kyung Won Kim, Seng Chan You
3 B	Implementing the OHDSI Community Approach to Phenotype a Complex Medical Condition in European Primary Care Data	Kristin Kostka, Evan Minty, Antonella Delmestri, Barrack Omondi, Martí Català, Edward Burn, Daniel Prieto-Alhambra, Annika M. Jödicke
4 B	OMOP Mapping of Real-World Data From Brazil & Pakistan Towards Management of COVID-19 In the Global South	Elzo Pereira Pinto Junior, Priscilla Normando, Leandro Rodor de Oliveira, Muhammad Asaad Jamil, Muhammad Usman Afzal, Sergio Fernandez Bertolin, Vinícius de Araújo Oliveira, Rafael Souza, Maria Yury Ichihara, Maurício L. Barreto, Talita Duarte Salles, Daniel Prieto-Alhambra, Haroon Hafeez, Sara Khalid
5 B	Characterization of Health by OHDSI Asia-Pacific chapter to identify Temporal Effect of the Pandemic for Cardiovascular Diseases (CHAPTER-CVDs)	Seng Chan You, Subin Kim, Yongjae Lee, Jing Li, Can Yin, Mui Van Zandt
6 B	Macrolides use among patients with asthma and chronic obstructive pulmonary disease – A drug utilization and prediction study	Victor Pera, Helen Panen, Maria de Ridder, Lies Lahousse, Peter Rijnbeek, Katia Verhamme
7 B	Developing a frailty concept in the OMOP CDM among sexual minority older adults (age 50+) in the All of Us database	Brianne Olivieri-Mui, Chelsea Wong, Michael Wilczek, Jordan Bosse
8 B	Trial feasibility assessments in federated hospital EHR networks, based on OMOP CDM: An objective of the IMI EU-PEARL Consortium	Eva-Maria Didden, Maxim Moinat, Esther Arevalo de Andres, Camille Couvert, Britt Dhaenens, Susana Kalko, Andreas Kremer, Martine Lewi, Cécile Spiertz, Eng Hooi Tan, Courtney Worrell, Nadir Ammour, Dipak Kalra
9 B	A pilot study to evaluate the feasibility of using Observational Health Data Sciences and Informatics analytics tools for supporting the validation of safety signals	Ceyda Tugba Pekmez Kristiansen, Lasse Christensen, Michael Stellfeld, Atheline Major-Pedersen, Ditte Mølgaard-Nielsen, Mark White, Peter Jelnes
10 B	Impact of the COVID-19 pandemic on eating disorders among adolescents and young adults in Catalonia: a population-based cohort study	Berta Raventós, Alicia Abellan, Andrea Pistillo, Carlen Reyes, Edward Burn, Talita Duarte-Salles
11 B	Informativeness of clinical lymph node metastasis staging for patients undergoing curative intended surgery for colorectal cancer: A national multi-register study	Andreas Weinberger Rosen, Ilze Ose, Adamantia Tsouchnika, Ismail Gögenur
12 B	Characteristics and outcomes of inflammatory bowel disease patients: an open, multinational OHDSI network study	Chen Yanover, Ramit Magen-Rimon, Jimyung Park, Rae Woong Park, Kwang Jae Lee, Sung Jae Shin, Nadav Rappoport, Tal El-Hay, Maytal Bivas-Benita, Pinchas Akiva, Yehuda Chowers, Roni Weisshof
13 B	Finding discontinuities of medical treatment trends due to Covid-19 using observational data	Byeungchun Kwon, Seng Chan You
14 B	Characterization of Health by OHDSI Asia-Pacific chapter to identify Temporal Effect of the Pandemic for Diabetes Mellitus (CHAPTER-DM)	Yizhi Dong, Seng Chan You, Subin Kim, Jing Li, Can Yin, Mengling Feng

OHDSI Europe Posters #5

Methodological research		
15 B	Defining the valid analytic space for quantitative bias analysis in pharmacoepidemiology	James Weaver, Patrick B Ryan, Victoria Strauss, Marc A Suchard, Joel Swerdel, Daniel Prieto-Alhambra
16 B	Impact of random oversampling and random undersampling on the development and validation of prediction models using observational health data	Cynthia Yang, Egill A. Fridgeirsson, Jan A. Kors, Jenna M. Reps, Peter R. Rijnbeek
17 B	Why predicting risk can't identify 'risk factors': empirical assessment of model stability in machine learning across observational health databases	Aniek F. Markus, Peter R. Rijnbeek, Jenna M. Reps
18 B	Analyzing the impact of COVID-19 on the healthcare system: an OMOP-CDM framework applied to Northern Italy	Sara Conti, Matteo Spezia, Carlo Franceschini, Elvira Beato, Roberta Ciampichini, Giacomo Crotti, Dario Montermini, Lorenzo Giovanni Mantovani, Alberto Zucchi
19 B	The performance of overlap weighting vs inverse probability of treatment weights to minimize confounding and systematic error in COVID-19 vaccine effectiveness: an empirical evaluation study	Martí Català, Edward Burn, Trishna Rathod-Mistry, Antonella Delmestri, Daniel Prieto-Alhambra, Annika M. Jödicke
20 B	Concept extraction from Dutch clinical text	Tom M. Seinen, Jan A. Kors, Erik M. van Mulligen, Peter R. Rijnbeek
21 B	Assessing treatment effect heterogeneity using the RiskStratifiedEstimation R-package	Alexandros Rekkas, David van Klaveren, Peter R. Rijnbeek
22 B	The use of data-driven vs. clinical based propensity score in covid-19 vaccine safety research	Xintong Li, Edward Burn, Daniel Prieto-Alhambra
23 B	An Iterative Hard Thresholding Method for Patient Level Prediction Models	Mathilde G.I. Tans, Jenna R. Reps, Ross D. Williams
24 B	Real-world evidence is in demand: a summary of 'live' requests for RWE studies published by a European health technology assessment (HTA) agency	Jamie Elvidge, Ravinder Claire, Shane Collins, Dalia Dawoud
25 B	Utilising real-world evidence for health technology assessment: development of a cancer survival use case	Ravinder Claire, Jamie Elvidge, Dalia Dawoud
26 B	Learning robust models from limited external statistics	Tal El-Hay, Chen Yanover
27 B	Combining real-world and clinical trial data to estimate COVID-19 treatment effects	Ravinder Claire, Christina Read, Jamie Elvidge, Thomas Debray, Dalia Dawoud
28 B	External validation of existing dementia prediction models on observational data	Luis H. John, Jan A. Kors, Egill A. Fridgeirsson, Jenna M. Reps, Peter R. Rijnbeek

OHDSI Europe Posters #6

29 B	De-identification of Clinical Notes for Patients with Infectious Disease and Topic Modeling using Latent Dirichlet Allocation	Jimyung Park, Chungsoo Kim, RaeWoong Park
30 B	Using geospatial approaches and machine learning for asthma and COPD outcomes: a systematic review	Daniel Jeannetot, Johnmary Arinze, Victor Pera, Peter Rijnbeek, Katia Verhamme
31 B	Patient treatment trajectory modeling with Markov chains	Markus Haug, Raivo Kolde, Marek Oja, Maarja Pajusalu
32 B	Development of an analytical pipeline for data-driven trend detection in routinely collected health data	Anthony G. Sena, Peter Rijnbeek, Dani Prieto-Alhambra, Sara Khalid
33 B	TrajectoryViz: Interactive visualization of treatment trajectories	Marek Oja, Sirli Tamm, Markus Haug, Raivo Kolde
34 B	Development of Prediction Models using Deep Learning on Dutch Unstructured Clinical Text	Gyan de Haan
35 B	RCTrep: A package for the validation of methods for treatment effect estimation using real world data	Lingjie Shen, Gijs Geleijnse, Maurits Kaptein

Day One: Symposium Agenda #2

	14:30 – 15:30 **Early Investigators Mentor Meetings** Lead: Ross Williams, Department of Medical Informatics, Erasmus MC Rotterdam **Location: Queen's Lounge**
16:15 – 16:45	Characterizing Adverse Events in COVID-19 infected patients across the OHDSI network Speaker: Erica A. Voss, MPH, Janssen Research and Development, Erasmus MC
16:45 – 17:00	Data Analysis and Real World Interrogation Network (DARWIN EU®) Speaker: Peter R. Rijnbeek, PhD, Chair, Department of Medical Informatics, Erasmus MC
17:00 – 17:45	Reaction panel with key stakeholders. Moderator: Dani Prieto-Alhambra, MD, PhD Professor of Pharmaco- and Device Epidemiology University of Oxford, Professor of Real World Evidence and Methods Research, Erasmus MC Panelists: - Catherine Cohet, European Medicines Agency - Filip Maljković, Heliant, Serbia - Daniel Morales, Dundee University,UK - Dalia Dawoud, NICE, UK - Patrick Ryan, Janssen Research and Development, USA
17:45 – 18:00	Closure
18:00 – 19:30	**Networking Reception**

50 registrants 'Early Investigators'; 18 attended

'The largest study of its kind'

Innovation in Regulatory Science

Great discussion on far ranging points related to data quality, methodological integrity, challenges of ETL's, Regulatory & HTA data, evidence and methods requirements

Day Two: Workshop Agenda

Saturday 25th	Workshop
Time	**Description**
8.30 – 9.00	Coffee
9:00 – 10.45	Workshop "Designing and implementing a network characterization study" **Lead** Patrick Ryan, Janssen Research and Development. **Description** In this full day workshop we will go through the full journey to design and implement a network characterization study. This will require active participation in breakout sessions. **Audience** All stakeholders are invited, including programmers, regulators, study leads, data partners, etc.
10.45 – 11.15	Coffee
11.15 – 13.00	**Continuation of the workshop**
13.00 – 14.00	Lunch
14.00 – 16.00	**Final part of the workshop**

~150 attendees working together and in groups on a characterisation study on myocarditis (linked to COVID-19 and to vaccination, from basic definitions (e.g., incidence) study design, cohort definition and evaluation through to execution in ATLAS.

Most already had familiarity with relevant OHDSI tools

Day Three: Work Groups Agenda

Sunday 26th	Parallel Workgroup Meetings
Time	**Description**
09.30 – 10.00	Coffee
10:00 – 12:30	During this day several meetings will be organized by OHDSI Working Groups and opportunities to meet experts Morning sessions: - Educational WG (Nigel Hughes) - *Location: OWR 23* - HADES WG (Martijn Schuemie) - *Location: OWR 35* - Oncology WG (Asieh Golozar) - *Location: OWR 36* - Vocabulary WG (Michael Kallfelz) - *Location: OWR 31*
12:30 – 13:30	Lunch
13:30 – 16:00	Afternoon sessions: - Patient Level Prediction WG (Ross Williams, Jenna Reps) - *Location: OWR 35* - OMOP-FHIR WG (Christian Reich) - *Location: OWR 31* - ETL/CDM WG (Erica Voss, Maxim Moinat) - *Location: OWR 23*
16:00 – 17:30	Closure Drink

~75 participants on Day 3

Great opportunity for focused work in each WG

EHDEN Data Partner & SME Community Lunch

PROMs Specialist Interest Group first meeting

OHDSI Europe 2022: Overall Take Home Messages

- The community is growing and diversifying
- Many countries initiating national node development
- As we see an industrialised ETL process to the CDM in Europe, evidence generation multiplying
- Great insights into the positives and challenges of working with the OHDSI research framework
- Networks like EHDEN, DARWIN EU changing the face of European research
- Expectation rising considerably wrt opportunity to conduct quality research

Patrick Ryan – Lobbing the Microphone….