An Update

Nigel Hughes

Project Lead, EHDEN
Scientific Director, Epidemiology, Janssen R&D
THE PANDEMIC IS A LARGE BOULDER IN THE POND....

WHO LED THE DIGITAL TRANSFORMATION OF YOUR COMPANY?

A) THE CEO  B) THE CTO  C) COVID-19

BUSINESSILLUSTRATOR.COM
RARE DISEASES: ~7,000 AFFECTING MILLIONS – COLLECTIVELY COMMON

US¹: Fewer than 200,000 people
Population: ~25-30 million

EU²: <1 in 2000 people
Population: ~30 million

“If a common disease is a series of rare diseases....the challenge is to define traits worth emulating by drugs, and to phenotypically screen a very large population for people with these traits”³

OHDSI to advance the science of observational research

- OHDSI is an open science community, founded by scientists at J&J, Columbia University, Stanford, UCLA, Regenstrief Institute, and IQvia.
- OHDSI is an open multi-stakeholder, interdisciplinary collaborative with a mission to improve health by empowering a community to collaboratively generate the evidence that promotes better health decisions and better care.
- OHDSI is driving development and adoption of open community data standards, open source analysis software, and open science best practices within regulators, academia, industry, payors, and health systems.

GLOBAL OHDSI NETWORK - Industry, Academia, Government

- >2,100 Researchers in epidemiology, statistics, informatics, health policy, and clinical sciences
- >150 Databases Included
- >2B Patient records Represented

OMOP DRIVING RWE

A. Clinical Characterization
B. Population-level effect estimation
C. Patient-level prediction
Vision

The European Health Data & Evidence Network (EHDEN) aspires to be the trusted observational research ecosystem to enable better health decisions, outcomes and care.

Mission

Our mission is to provide a new paradigm for the discovery and analysis of health data in Europe, by building a large-scale, federated network of data sources standardized to a common data model.
INNOVATIVE MEDICINES INITIATIVE: EHDEN CONSORTIUM

Start date: 1 Nov 2018
End date: 30 Apr 2024
Duration: 66 months

23 partners
Almost €29 million
EHDEN IS ABOUT...

**Federation**
Creation of an EU-wide architecture for federated analyses of real world data

**Harmonisation**
Harmonise more than 100 million anonymised health records to the OMOP common data model

**Community**
Establish a self-sustaining open science collaboration in Europe, supporting academia, industry, regulators, payers, government, NGOs and others

**Outcomes**
Enabling outcomes driven healthcare at a European level

**Education**
The establishment of an EHDEN Academy, webinars and face-to-face training sessions to train all stakeholders
THE EHDEN FEDERATED DATA NETWORK

The EHDEN platform will develop new tools and dashboards. Many different open source tools (cohort builder, estimation, incidence rate, ...)

Analysis query

Aggregated results
AFTER FOUR CALLS WE SELECTED 98 DATA PARTNERS IN 23 COUNTRIES

Geographic spread of data partners. The shade of blue indicates the # of data partners in that country (darker = more)
LARGE-SCALE OBSERVATIONAL RESEARCH IS FEASIBLE

T2 Diabetes Mellitus  |  Hypertension  |  Depression

“Characterizing treatment pathways at scale using the OHDSI network.”
George Hripcsak et al. - PNAS (2016)27:7329–7336

11 Data sources
4 Countries
> 250 million patients
• Now ending our third year

• We are building one of the largest international collaborative research networks on the planet within OHDSI

• We need to think regional and global in scale for ‘rare’ and ‘common’ diseases

• EHDEN has contributed to the understanding and response of COVID-19

• We are informing, educating and working with a remarkable network

• Numerous projects are benefitting from our expertise, knowledge and skills

• Project will end in 2024, but we will continue as a new legal entity

www.ehden.eu
@IMI_EHDEN
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github.com/EHDEN

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