



Welcome to the 2nd OHDSI UK Annual Event!!



AGENDA FOR THE DAY (1)

9.30	An update on OMOP based activity nationally	Dani Prieto Alhambra (NDORMS)
10:00	Proof-of-concept for a UK federated data network using the OMOP common data model: the UK regulatory studyathon	Helen Booth (MHRA) [P#10]
10.30	Coffee break, posters, and software demos	
11.30 – 12.30	Lightning talks 1: Clinical research applications <i>Brief presentations from submitted abstracts</i>	Chaired by: Geoff Hall (Leeds) and Quinta Ashcroft (LTHTR)



AGENDA FOR THE DAY (2)

12.30	Lunch and Networking	
13.30	The future of OMOP in the UK (Guest Speakers)	Chaired by Paola Quattroni (EACTS)
14.30	Coffee break, posters, and software demos	
15.00	Lightning talks 2: Open source software	Chaired by: Jennifer Lane (Barts) and Marta Alcalde (Oxford)



AGENDA FOR THE DAY (3)

16.00	Lightning talks 3: UK EHDEN Data Partners	Chaired by: Ofran Almosawi (GOSH) and Usama Rahman (Barts)
16.30	Conclusions and closing remarks	Dani Prieto Alhambra, Ed Burn (NDORMS)
17.00 — 19.00h	Drinks reception	



An update on OMOP based activity nationally

Dani Prieto-Alhambra
Health Data Sciences, Oxford



??

(Way more than I can know..)



*Since last OHDSI UK
Annual Conference ...*



Activities this last year ...

1. MHRA-OHDSI UK Studyathon

Study on the use of fluoroquinolones..

- In England (SE, NW, London) and Scotland
- In kids and grown ups
- In primary care and hospitals
- ... And the impact of regulatory action*
- Poster 6 – Lightning Talks 1 for details

* Y Guo et al. Pharmacoepidemiol Drug Safety 2024 [in press]



Activities this last year ...

1. MHRA-OHDSI UK Studyathon

Study on the surgical treatment of rectal prolapse..

- Including population-level epidemiology
- Use of devices
- Hear more from Helen (Booth) – MHRA



Training / Networking Oxford OMOP RWE Summer School





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HDR UK event

OMOP Special Interest Group Inaugural Meeting

19 June 2023

The UK Health Data Research Alliance is convening a Special Interest Group devoted to the OMOP Common Data Model, which will support the user

Start date

27 June 2023 – 2:00PM

End date

27 June 2023 – 3:30PM

Location

Online via Zoom



FAIRS UK

A UK national regulatory science network using OMOP

Application details

Competition name

UK Regulatory Science and Innovation
Networks – Discovery phase

Application name

Federated Analytics Initiative for
Regulatory Science in the UK: FAIRS-
UK

Stage 1 awarded. Stage 2 submitted last month



FAIRS UK

Data Partners

Acronym	Coverage	Provenance
CPRD-HES	UK-wide	Primary care (with linked hospital admissions)
UK Biobank	UK-wide	Biobank, genetics, linked EHR
Barts Health NHS Trust	London	Hospital EHR
Lancashire Hospitals NHS Trust	North-West England	Hospital EHR
Great Olmond Street Hospital	London	Paediatric specialist hospital
HIC – NHS Tayside and Fife	Scotland	Linked NHS data
SAIL	Wales	Linked data



FAIRS UK

A UK national regulatory science network using OMOP

- Open science and federated analytics
- OMOP CDM
- Standardised analytics for regulatory decision making (MHRA)



FAIRS UK Hackathon

db Characaterisation

- Background
- Database Metadata
- Clinical tables
- Observation period
- Counts
- Individuals characteristics

Database characterisation

This is a visualisation for database characterisation.

The code can be found at: <https://github.com/oxford-pharmacoepi/DatabaseCharacterisation>.

The study was conducted with synthetic data: [Eunomia](#). The mock synthetic data is available using the [CodeToRunEunomia.R](#) or you can download it from: <https://example-data.ohdsi.dev/GiBleed.zip>

This project was founded by: HDRUK.

db Characaterisation

Metadata of each database

Cdm name

7 items selected

Tidy table Formatted table

Download word

Variable	Estimate	cdm_name						
		Barts Health	CPRD GOLD 100k	CPRDAurum50	GOSH HLZ	LTHTR	SAIL	UK Biobank
shot_date	value	2024-05-16	2024-05-08	2024-05-13	2024-05-17	2024-05-16	12/06/2024	2024-05-18
on_count	count	2,955,401.0	100,000.0	1,377,783.0	135,511.0	2,156,690.0	4,703,000.0	502,362.0
rvation_period_count	count	2,312,983.0	100,000.0	1,377,783.0	135,511.0	2,071,389.0	834,698,289.0	502,362.0
	source_name	Barts Health Data Warehouse	Clinical Practice Research Datalink, GOLD 202307 release	CPRD Aurum OMOP CDM 50 Practices Refresh	GOSH DRE database	LTH OMOP Bronze	Welsh Longitudinal General Practice Dataset - Welsh Primary Care	UKBioBank_2020_03



HDRUK RWE Pilot Network

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News Announcement

New Real-World Evidence Network Co-ordination Centre for the UK

17 June 2024

Daniel Prieto-Alhambra from the University of Oxford to lead a new co-ordination centre for a pilot real-world evidence network to utilise data gathered from multiple UK sources.



*Before the next OHDSI UK
Annual Conference ...*

(Upcoming)



Training / Networking



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External event

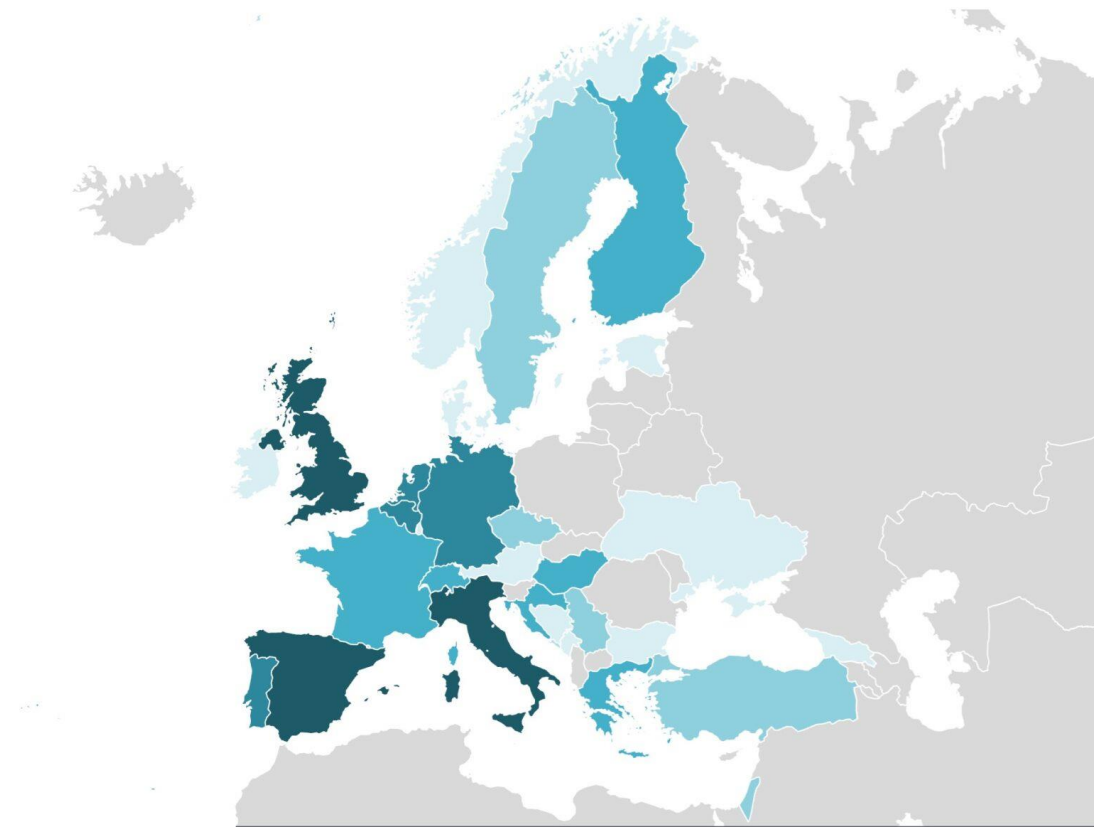
Federated Analytics: How to be FAIR with Data Standards

26 November 2024

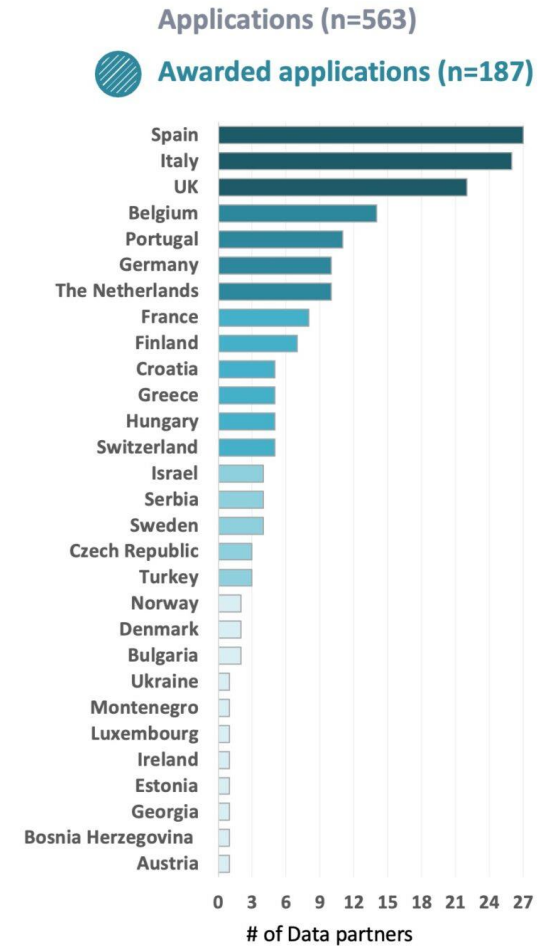
[Register](#)

Theme: 'Quantifying the risk when we convert data to a new standard, focusing on OMOP.'

EHDEN wrapping up... and the birth of the EHDEN Foundation



Geographic spread of data partners. The shade of blue indicates the # of data partners in that country (darker = more)





NHS R&D SDE Network + OMOP mapping



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Opinion

NHS Research SDE Network agrees to adopt common data model

15 August 2023 | Author: Dr Chris Russell, Head of Delivery, Data for R&D at NHS England

Our healthcare system is complex and has evolved over time rather than developing in line with an agreed grand plan. Health data is no different and while the benefits from a more standardised approach to data are enormous, achieving this presents a significant challenge. Dr Chris Russell, Head of Delivery, Data for Research and Development at NHS England, discusses how adoption of a common data model can help.



Geographic spread of data partners. The shade of blue indicates the # of data partners in that country (darker = more)

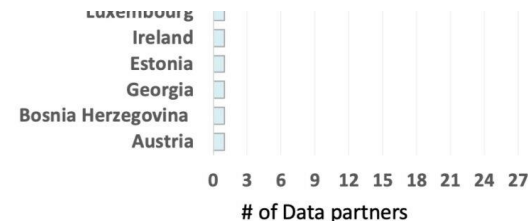


Contact

Dr Chris Russell
[@DrChrisRussell](#)
[LinkedIn profile](#)

Partners

NHS England





+
Our
Future
Health

Target 5m participants 13.30h session for details

Current data release

989,132

participants with completed baseline health questionnaires

330,069

participants with genotype array data

644,119

participants with linked health record data

Date of latest release:

26 June 2024

Release documentation:

[Our Future Health data dictionary \(Excel file\)](#)

[Participant and Questionnaire coding file \(CSV file\)](#)

[NHS England linked health records coding file \(CSV file\)](#)

[Genotyping array CPRA \("Chrom:Pos:Ref:Alt"\) variant list \(CSV file\)](#)

Table 2: Demographic characteristics

	N	%
Baseline questionnaire data	989,132	100
Sex ^a		
Female	560,995	56.7
Male	427,643	43.2
Intersex / Other / Prefer not to answer	494	0.0
Age (years) ^b		
18-29	82,998	8.4
30-39	140,730	14.2
40-49	156,404	15.8
50-59	210,580	21.3
60-69	234,258	23.7
70-79	140,231	14.2
80+	23,931	2.4

Join the journey!

