



# Newcomer Orientation

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To produce awesome  
evidence at scale

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# www.ohdsi.org/web/wiki

## Welcome to OHDSI



OHDSI is a multi-stakeholder, interdisciplinary collaborative that is striving to bring out the value of **observational health data** through large-scale analytics. **The OHDSI Research Network spans over 600 million patients.** We hope you'll Join the OHDSI Journey.

Find out more at [www.ohdsi.org](http://www.ohdsi.org)

### Learn

Learn how to implement the **OMOP CDM** and use OHDSI's **analytics tools** to get more out of your data.

### Contribute

Contribute to OHDSI open-source **software development** and **methodology research**.

### Collaborate

Ask questions of the [OHDSI community](#), join the **community calls** and the **research network**.



STRUCTURED DATA

UNSTRUCTURED DATA

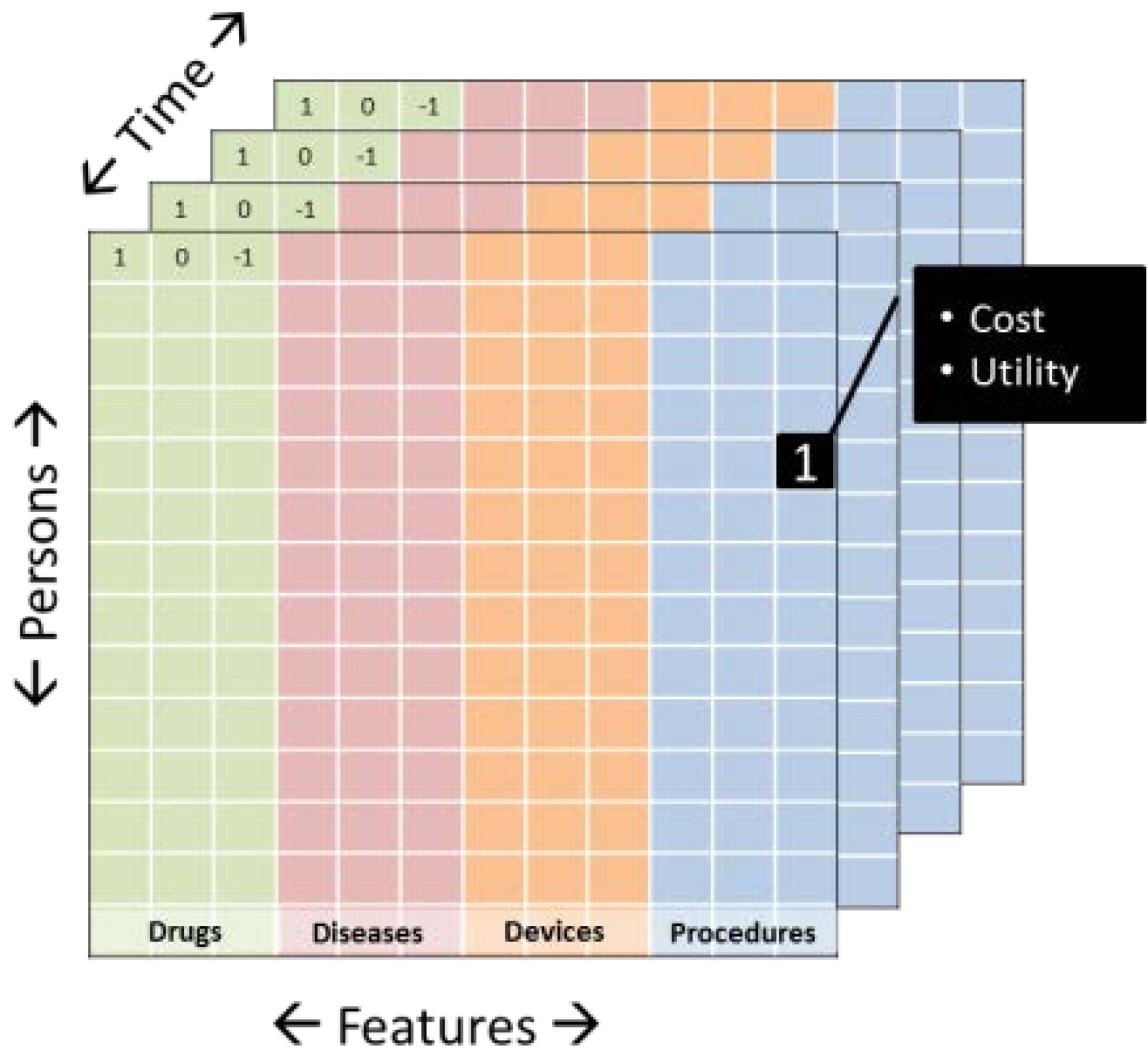
TYPES OF DATA

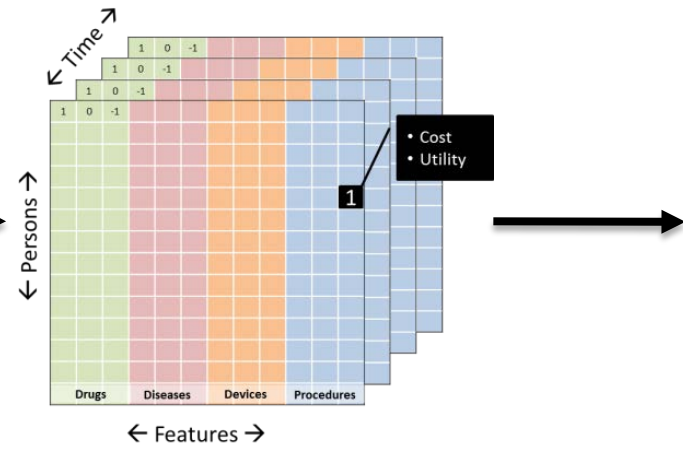
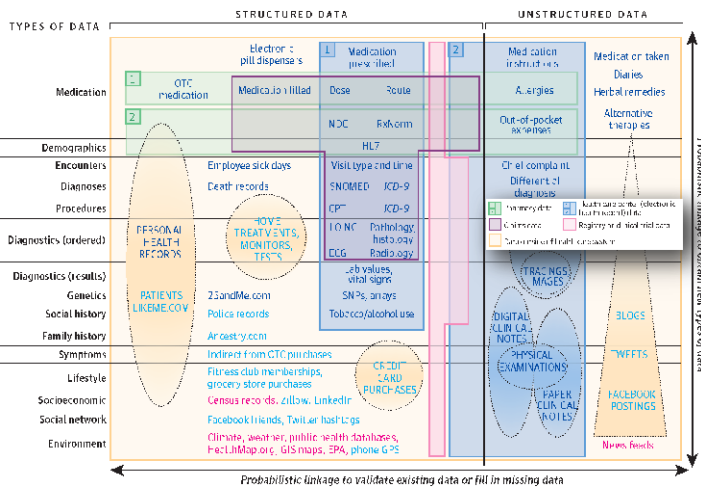
Type of Data	Structured Data	Unstructured Data
Medication	Electronic pill dispensers OTC medication (1) Medication filled Medication prescribed (1) Dose Route NDC RxNorm HL7 Visit type and time SNOMED ICD-9 CPT ICD-9 LOINC Pathology, histology ECG Radiology Lab values, vital signs SNPs, arrays Tobacco/alcohol use	Medication instructions Medication taken Diaries Herbal remedies Allergies Out-of-pocket expenses Alternative therapies Chief complaint Differential diagnosis TRACINGS, IMAGES DIGITAL CLINICAL NOTES PHYSICAL EXAMINATIONS PAPER CLINICAL NOTES BLOGS TWEETS FACEBOOK POSTINGS News feeds
Demographics	Employee sick days	
Encounters	Death records	
Diagnoses		
Procedures		
Diagnostics (ordered)	PERSONAL HEALTH RECORDS HOME TREATMENTS, MONITORS, TESTS	
Diagnostics (results)		
Genetics	PATIENTS LIKEME.COM 23andMe.com	
Social history	Police records	
Family history	Ancestry.com	
Symptoms	Indirect from OTC purchases	
Lifestyle	Fitness club memberships, grocery store purchases CREDIT CARD PURCHASES	
Socioeconomic	Census records, Zillow, LinkedIn	
Social network	Facebook friends, Twitter hashtags	
Environment	Climate, weather, public health databases, HealthMap.org, GIS maps, EPA, phone GPS	

1 Pharmacy data  
1 Health care center (electronic health record) data  
1 Claims data  
1 Registry or clinical trial data  
1 Data outside of health care system

← Probabilistic linkage to validate existing data or fill in missing data →

↑ Probabilistic linkage to obtain new types of data ↓





Awesome evidence


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## JOIN THE JOURNEY






How to become an OHDSI collaborator



**Join the OHDSI forum**  
OHDSI Tip: Follow topics to receive emails when new posts are added

**Introduce yourself!**  
Let the community know you're here by introducing yourself in the forum or at a community meeting

**Join an OHDSI meeting**  
Sit in on our weekly community meetings






**Join the OHDSI research network**  
By leading a study across the network

OR

By converting data to the OMOP common data model

**Join a working group**  
Or start your own work group!



**Join the Journey**  
Help improve medical decision making today!

**Provide feedback**  
Identify and evaluate ways to use real-world evidence to inform decision making



# Ask: Questions about ...

1. **Data model:** how does the source store what relates to what
  2. **Terminologies:** what terms does the source use to denote specific items in the data
  3. **Level of Quality Control:** what are the tests and checks to ensure that the right terms are used, and the right things relate.
  4. **Counting outcomes of interest:** How will you decide if 'X' happened or not.
  5. **Methods:**
    - What analyses can you do and not do?
    - What can you do to not be wrong?
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# How to find your clan

- [www.ohdsi.org/web/wiki](http://www.ohdsi.org/web/wiki) → gets you up to speed as to what has already happened.
  - <http://forums.ohdsi.org> → the stream of consciousness from the community.
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