

APAC Community Call

August 21, 2025



Agenda

- 2025 APAC Studies: Call for Data Partners
- Regional Chapter Mid-year Updates: Australia, Malaysia
- Deep Dive into OHDSI India's Developments
- 2025 APAC Symposium Updates



Call for Data Partners

2025 APAC Studies



Gastrointestinal Risk of GLP-1 Receptor Agonists versus SGLT-2 and DPP-4 Inhibitors in Type 2 Diabetes: A Multi-Database Observational Study

Yongqi Zheng, Department of Epidemiology and Biostatistics, Peking University Feng Sun, Department of Epidemiology and Biostatistics, Peking University



Study Background

Pharmacologic
Approaches to T2DM
Treatment

Metformin: foundational glucose-lowering therapy, typically used as first-line agent GLP-1RAs: recommended as monotherapy or as add-on therapy to agents such as metformin in patients with T2DM and established ASCVD, CKD, or obesity, based on their cardiovascular and renal benefits

Evaluate
Gastrointestinal(GI)
Risks of GLP-1RAs
Using Real-World
Evidence:
Rationale & Gap

Safety Concern: Delayed gastric emptying → possible gastroparesis, intestinal obstruction **Conflicting Evidence**:

- Several large-scale observational studies (e.g., Sodhi et al., Nielsen et al.) have reported significantly increased risks of gastroparesis and intestinal obstruction
- Several studies (e.g., Gao et al., Ueda et al.) found no significant increase in gastrointestinal obstruction
- There have been no RCTs specifically designed to evaluate the gastrointestinal safety outcomes of GLP-1RAs

Need for Real-World Evidence:

- Prior studies limited by insufficient confounder adjustment
- Few multi-database studies on GI safety of GLP-1RAs



Study Objectives

- Primary objective
 - ➤ Compare the risk of gastroparesis in T2DM patients initiating GLP-1RAs versus DPP-4 inhibitors or SGLT-2 inhibitors
 - ➤ Compare the risk of intestinal obstruction in T2DM patients initiating GLP-1RAs versus DPP-4 inhibitors or SGLT-2 inhibitors
- Secondary objective
 - ➤ Compare the risk of acute pancreatitis and nonalcoholic fatty liver disease (NAFLD) in T2DM patients initiating GLP-1RAs versus DPP-4 inhibitors or SGLT-2 inhibitors, as secondary outcomes to provide a broader assessment of digestive system safety



Study Design

Analytic use case	Туре	Structure
Population-level effect estimation	Comparative effectiveness	Does exposure to GLP-1RAs have a different risk of experiencing gastroparesis or intestinal obstruction within end of continuous observation, relative to DPP4-i or SGLT2is among the population with type 2 diabetes and history of metformin?

Population

Inclusion

- Adults (≥18 years)
 with T2DM
- ≥365 days prior observation
- ≥90 days prior metformin use

Exclusion

- T1DM or secondary diabetes
- Prior exposure to study drugs or antidiabetic exposure
- No prior insulin use or combo initiation
- History of pancreatitis, digestive system cancer, or abdominal surgery
- Renal dialysis, renal transplantation or end stage renal disease

Target: GLP-1RAs

Comparator: SGLT-2 inhibitors, DPP-4 inhibitors

Outcome:

Primary outcome:

- Gastroparesis
- Intestinal obstruction

Secondary outcome:

- Acute Pancreatitis
- NAFLD



CohortDiagnostics

- URL of CohortDiagnostics package:
 - https://github.com/ohdsi-studies/2025APACStudy-Peking/tree/master/CohortDiagnostics
- For troubleshooting:
 - Open an issue at https://github.com/ohdsi-studies/2025APACStudy-Peking/issues
- Send your results to:
 - Yongqi Zheng zyq4664@pku.edu.cn
 - OHDSI APAC <u>apacsymposium@ohdsi.org</u>
- Join us at our study Teams channel: 2025 APAC Study 2 Peking



Association Between Fasting Plasma Glucose Levels and Annual Hospitalization Days: A Multicenter Study Using the OHDSI Framework

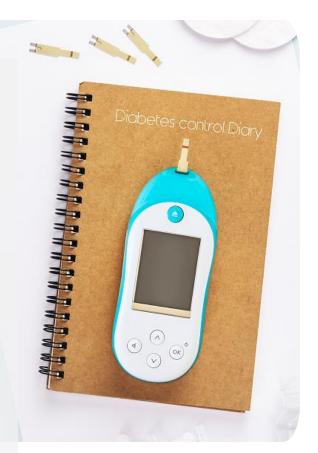
Ph.D. Jianying Gu, Zhongshan Hospital, Fudan University
Ph.D. Lei Liu, Fudan University



Study Background

Fasting Plasma Glucose Levels

- Abnormal FPG levels relate to metabolic health, diabetes, and increased healthcare resource use.
- ➤ High levels can cause disorders, inflammation, and exacerbate chronic diseases, potentially leading to longer hospital stays



OHDSI Framework about FPG: Investigates association between FPG levels and annual hospitalization days using OHDSI framework, to inform glucose management and resource allocation strategies



Study Objectives

Problem statement——
Exploring the Relationship
FPG Levels and
Hospitalization

✓ Evaluating how glucose
 abnormalities affect
 hospitalization days, aiming to
 quantify their impact on
 healthcare resources utilization

Standard multicenter data in OHDSI to understand the relationship between plasma glucose levels and hospitalization days. This uses OHDSI's multicenter data to study how plasma glucose levels relate to the length of hospital stays, identifying trends for better care planning





Study Design

The study population will be defined as:

- 1. Patients aged ≥18 years, of any gender.
- 2. A documented fasting plasma glucose (FPG) measurement during inpatient stay, including a valid numerical value and timestamp, expressed in mg/dL or mmol/L, and with FPG \neq 0.

Patients must also have complete hospitalization records with both admission and discharge dates.

Additionally, patients must also meet one or both of the following criteria:

- Admission to a specified clinical department (specialty).
- More than one hospitalization episode.

Exclusions:

Incomplete hospitalization records or hospitalization dates falling outside the past 5 years.



Preliminary Analysis to Determine Feasibility

1. FPG only

2. Glucose measurement in hospital

Analytic use case	Туре	Structure
Clinical characterization	Disease Natural History	Amongst patients with at least one fasting plasma glucose (FPG) measurement within a fixed continuous observation period starting from the event, what are the patient's characteristics from their medical history?
Clinical characterization	Disease Natural History	Amongst patients who experience an inpatient or ER visit accompanied by glucose measurement during the same clinical encounter, what are the patient's characteristics from their medical history?



CohortDiagnostics

- URL of CohortDiagnostics package:
 - https://github.com/ohdsi-studies/2025APACStudy-Fudan/tree/master/CohortDiagnostics
- For troubleshooting:
 - Open an issue at https://github.com/ohdsi-studies/2025APACStudy-Fudan/issues
- Send your results to:
 - Changran Wang <u>crwang@fudan.edu.cn</u>, Jiaqi Liu <u>liu.jiaqi@zs-hospital.sh.cn</u>
 - OHDSI APAC <u>apacsymposium@ohdsi.org</u>
- Join us at our study Teams channel: <u>2025 APAC Study 1 Fudan</u>



2025 OHDSI APAC Symposium

December 6-7 • Shanghai Jiao Tong University, China





Event Landing Page



Now Available!!



Agenda (Tentative)

Day 1 (Dec 6)

Tutorial Sessions



- Introduction of OHDSI/OMOP
- **OMOP CDM and Vocabulary**
- ETL
- **Analytics**

Day 2 (Dec 7)

Updates & Studies



- 2025 APAC Studies: Overviews and Results
- Real-world Data Developments in China

Discussions & Presentations



Collaborator Showcase: Poster Presentations and Lightning Talks



Collaborators Showcase

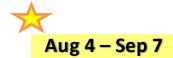
2025 OHDSI APAC Collaborator Showcase Brief Report Submission Form

Thank you for your interest in the 2025 OHDSI APAC Collaborator Showcase! We are delighted that you are considering joining our research community and presenting your work at this year's symposium. The 2025 OHDSI APAC Symposium will be held in person **December 6-7** at the Shanghai Jiao Tong University in Shanghai, China.

Please take a few minutes to fill out this submission form to help the OHDSI APAC Scientific Review Committee better understand your work. The deadline to submit your brief report is **September 7**. You will receive a confirmation email of your responses upon completion. If the committee has selected your work to be presented at this year's symposium, you will be notified via email by **October 17**.

Should you need to change your responses to any of the questions on this form, please click on the "Edit response" button in the confirmation email you received. Should you need to revise your brief report, please email apacsymposium@ohdsi.org. Your submission will be removed, and you will need to submit again with the revised PDF.





Sep 8 – Oct 6 Oct 7-9 APAC WG workshop

Oct 17

Dec 6-7



Review by Scientific
Committee







Regional Chapter Mid-year Updates

Malaysia – Steven Young



Updates from Malaysia

- 1. MyGenom has been introduced to the OMOP CDM framework and will begin incorporating the learnings into their genomic and health data initiatives, aligning with global data interoperability standards. Intention is to expand its capabilities into the area of pharmacogenomic.
 - Will be reaching out to the community / team with these experience.

What is the MyGenom Project?

The MyGenom Project is an effort to understand the genetic makeup of Malaysians. It's our country's first large-scale study of population genomics, which means sequencing the DNA of Malaysian citizens from different races and ethnicities. In Phase I, 2,400 genomes will be sequenced from healthy Malaysian individuals, with the goal of reaching 10,000 genomes in Phase II. Over time, this project will create a Malaysia reference genomic dataset that reflects the diversity of our population and will be the key to bringing Precision Medicine to Malaysia.



Updates from Malaysia (continue)

- 2. National Institutes of Health (NIH) is planning to establish its Trusted Research Environment (TRE) in Q1/Q2 2026. This TRE will model after OMOP CDM principles, emulating the success of TRUST framework, and NIH is currently applying for funding to support the project.
 - Will be reaching out to the community / team with these experience.

3. Ministry of Health (MOH) will be embarking on its first OMOP CDM project in Q1 2026, paving the way for broader adoption of standardized healthcare data models across the public healthcare sector. The first phase will start off with data from public clinics and followed by hospitals. These initiatives is being done in parallel to their nationwide effort in digitalizing clinics across the country.



Deep Dive into OHDSI India's Developments

Swetha J.



OHDSI India Chapter

From Raw Data to Reliable Evidence



Agenda

Breast Cancer Study Overview

FHIR Work Group Initiative

The CVD Patient Registry

Digital Health Centre of Excellence



Our Team

















Breast Cancer Study

Problem Statement:

PDF discharge summaries from 2014 to 2022 at JSS Mysore University containing unstructured breast cancer data. This unstructured format presents challenges in accessing, standardizing, and analyzing data for research and clinical insights.

Objectives:

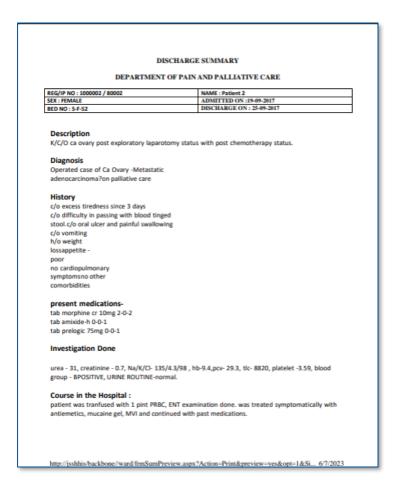
Extract and structure clinically relevant data from the PDF discharge summaries using NLP techniques.

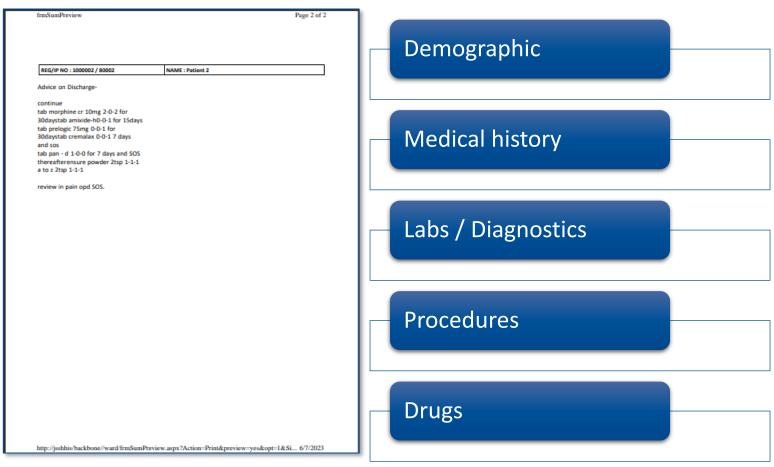
Standardize the extracted data to the OMOP Common Data Model (CDM) for interoperability and analysis.

Enable efficient data utilization for research and real-world evidence (RWE) generation in breast cancer care.



Know our Data







Process Overview

PDF Deidentification to remove PHI Conversion of PDF to text Annotating the clinical notes Developing NLP models - NER, RE, & CN Evaluating Model Performance Precision, Recall, F1 score, Accuracy OMOP CDM Data Conversion



Process Overview

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Deidentification



ld: 2fde18bf55ee24c03e7024a5b0b2721055739d02196dc7b7480ed5214ecaa8c5

DISCHARGE SUMMARY

DEPARTMENT OF MEDICINE

REG/IP NO	:	NAME	:
AGE	: 30 Years	ADMITTED ON	: 23-11-2014
SEX	: FEMALE	DISCHARGED ON	: 27-11-2014
BED NO	: GM-F-01	UNIT HEAD	: (USA),FRCP
ADDRESS			
	MYSURU		

GENERAL MEDICINE

FINAL DIAGNOSIS: Ca Breast with ?Secondaries to the Brain.

PRESENTING SYMPTOMS: Headache- 10 days

Weakness of left side of body-8 days back lasted for 10 min.

Fever- 2days Diplopia -2 days

PAST HISTORY: K/C/O of Ca Breast 1 year back for which she got operated in month of Aug 2013 followed by

2 cycles of chemotherapy.

EXAMINATION:

GPE- PR: 90bpm BP: 118/70 mmhg

CVS- NAD RS - NAD PA- NAD

CNS-Conscious and oriented.HMF-normal

Power Rt UL and LL-5/5 Lt UL and LL-4/5

Plantar Rt-flexor It-extensor

INVESTIGATIONS: Enclosed

TREATMENT GIVEN: Inj Mannitol 100ml i.v 1-1-1

Tab Strocit-P 1-0-1 Tab Ultracet 1-0-1 Tab Rantac 150 mg 1-0-1 Tab Eptoin 100mg 1-0-2

Inj Dexona 8mg stat and 4mg 1-1-1

A specialized deidentification tool is used to mask the PHI from PDF discharge summaries, ensuring patient privacy and compliance with data security standards.



Process Overview

PDF Deidentification to remove PHI **Conversion of PDF to text Annotating the clinical notes Developing NLP models - NER, RE, & CN Evaluating Model Performance Precision, Recall, F1 score, Accuracy OMOP CDM Data Conversion**



Develop Annotation Guidelines

Defined the main entities and modifiers based on the purpose of annotation.

+ 1		
	Entity Name	Definition
	Problem	The abnormal condition that happens physically or mentally to a patient.
	Procedure	A medical process or method used to perform a test or treatment of a problem.
	Drug	Generic or brand name of a single medication or a collective name of a group of medication.
	Test	A medical procedure performed (j) to detect or diagnose a problem, (ii) to monitor diseases, disease processes, and susceptibility, or (iii) to determine a course of treatment.

Modifier Name	Definition	
Severity	The degree of intensity of a clinical condition	
Conditional	A phrase that indicates the problems existing in a certain situation	
Uncertain A measure of doubt related to a problem		
Bodyloc	The location on the body where the observation is present	
Course	The development or alteration of a problem	
Temporal	Calendar date, time, or duration related to a problem	
Negation	The phrase that indicates the absence of an entity	
Problem Status	Indicates the temporal status of the problem, distinguishing between current and past conditions.	



Develop Annotation Guidelines

Basic annotation rules

Example - Annotate demographic data such as gender (male/female) and age information

Specific guidelines for each main entity

Problem - Definition: The phrases containing the observations made by the patient or clinician about the patient's body or mind as abnormal or caused by a disease are considered as a "Problem".

Special cases and document as you annotate

Chemotherapy should be annotated as a procedure entity, while the specific drugs used in the chemotherapy should be annotated as drug entities.

The modifiers

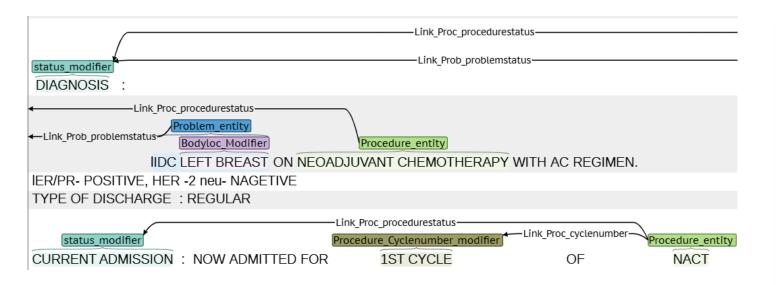
When an ENTITY is described by a MODIFIER, the MODIFIER provides additional information about the ENTITY

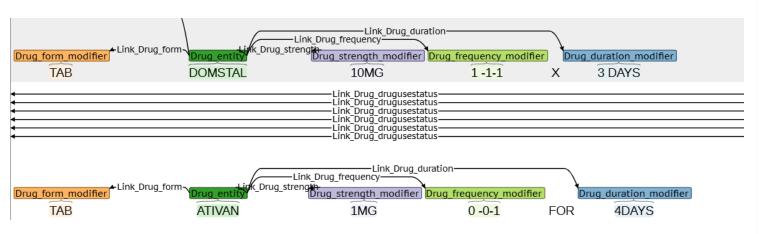
Span relationship between modifiers and entities

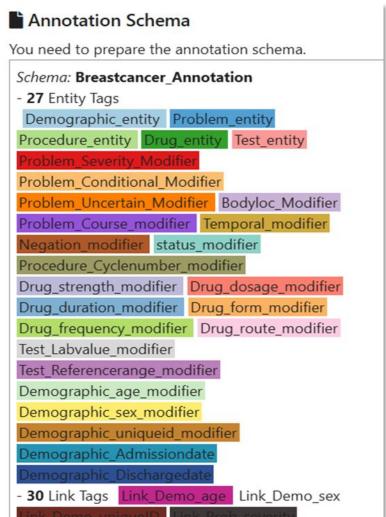
After annotating the entity, attribute the relationships between the associated modifiers.



Annotations





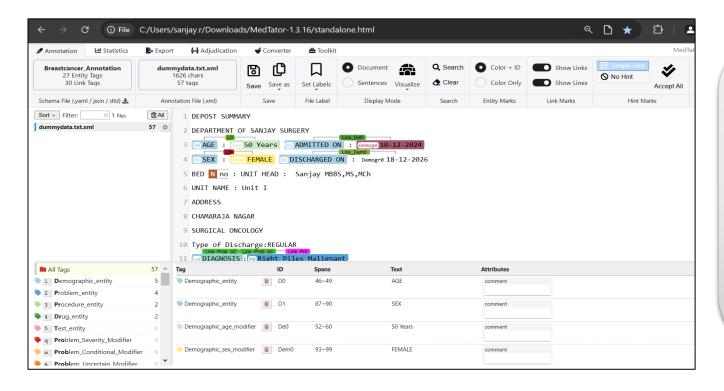




Annotation Tool & Methodology







Results:

Inter-Annotator Agreement (IAA) was measured across different batches of annotated files. The results are as follows:

IAA (1): Annotator A vs. Annotator B (Batch of 25 files) - 94.71%

IAA (2): Annotator A vs. Annotator C (Batch of 75 files) - 96.12%

IAA (3): Annotator A vs. Annotator D (Batch of 75 files) - 93.10%

IAA (4): Annotator A vs. Annotator D (Batch of 125 files) - 94.32%

Error Analysis:

Error analysis was conducted by Annotator A to maintain quality control and ensure accurate annotations.



Inter-annotator Agreement (Adjudication)

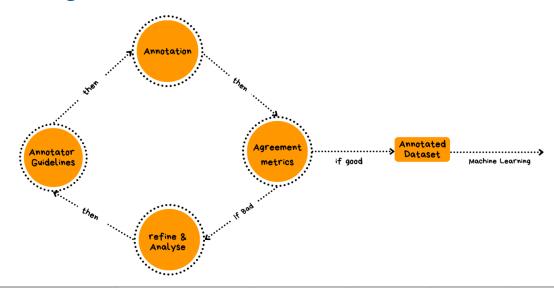


- Cohen's Kappa
- Krippendorff's alpha

$$Precision = \frac{True \ Positive}{True \ Positive + False \ Positive}$$

$$\mathsf{Recall} = \frac{\mathit{True\ Positive}}{\mathit{True\ Positive} + \mathit{False\ Negative}}$$

$$F1 = 2 \times \frac{Precision * Recall}{Precision + Recall}$$



1	tag_name	F1	precision	recall	TP	FP	FN
2	Overall	0.8866	0.8337	0.9468	2436	486	137
3	Demographic_ent	0.9540	0.9120	1.0000	114	11	0
4	Problem_entity	0.6405	0.5024	0.8833	106	105	14
5	Procedure_entity	0.7547	0.6557	0.8889	80	42	10
6	Drug_entity	0.8931	0.8224	0.9771	213	46	5
7	Test_entity	0.9507	0.9450	0.9564	395	23	18
8	Problem Severity	1.0000	1.0000	1.0000	1	0	0



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Data extraction from the discharge summaries



TRAIN: VALIDATE: TEST - 70:10:20

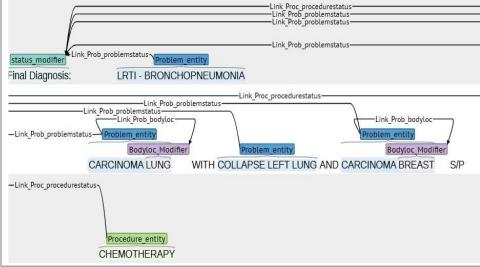
Demographic entity

DISCHARGED ON

Demographic sex modifier

FEMALE

Link Demo dischargedate



Demographic entity

SFX

18-12-2026

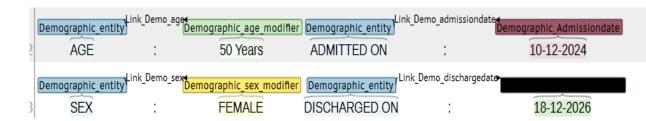


Named Entity Recognition

BERT Model

Identifying the boundaries of entities

Identifying the semantic categories of entities



BIO (B – Beginning I – Inside O – Outside) Tagging

Token Label

AGE	B-Demographic_entity	
:	0	
50	B-Demographic_age_modifier	
Years	I-Demographic_age_modifier	
ADMITTED	B-Demographic_entity	
ON	I-Demographic_entity	
:	0	
10-12-2024	B-Demographic_Admissiondate	
SEX	B-Demographic_entity	
:	0	
FEMALE	B-Demographic_sex_modifier	
DISCHARGED	B-Demographic_entity	
ON	I-Demographic_entity	
:	0	
18-12-2026	B-Demographic_Dischargedate	



Evaluation

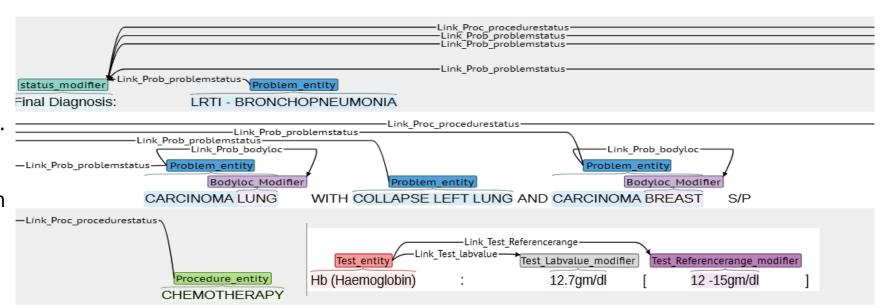
Text	Gold Annotation	Annotation	Result
The patient was diagnosed with breast cancer	breast → B-Problem cancer → I-Problem	breast → B-Problem cancer → I-Problem	Exact Match (same entity type + same boundaries)
The patient was diagnosed with breast cancer	breast → B-Problem cancer → I-Problem	cancer → B-Diagnosis	Relaxed Match (entity type matches, boundaries overlap but not identical)
The patient was diagnosed with breast cancer	breast → B-Problem cancer → I-Problem	breast → B-BodyPart	Not a Match (entity type mismatch, even though text overlaps)



Relationship Extraction

BERT Model

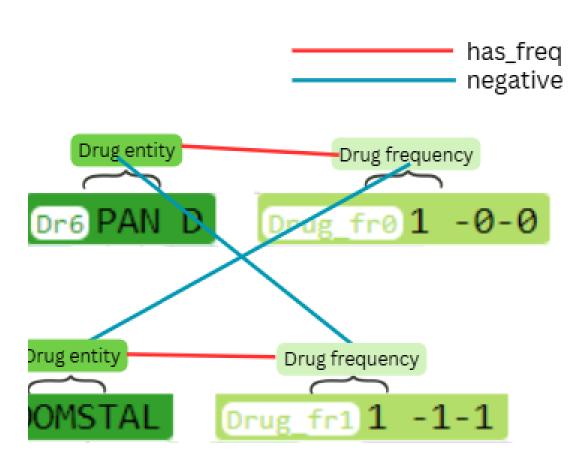
- Identify the semantic relations between entities.
- Determine the direction and context of the relation



Entity	Attribute Value	Relationship
Carcinoma	Breast	Has_attribute
LRTI -Bronchopneumonia	Final Diagnosis	Has_attribute
Hb(Haemoglobin)	12.7gm/dl	Has_attribute



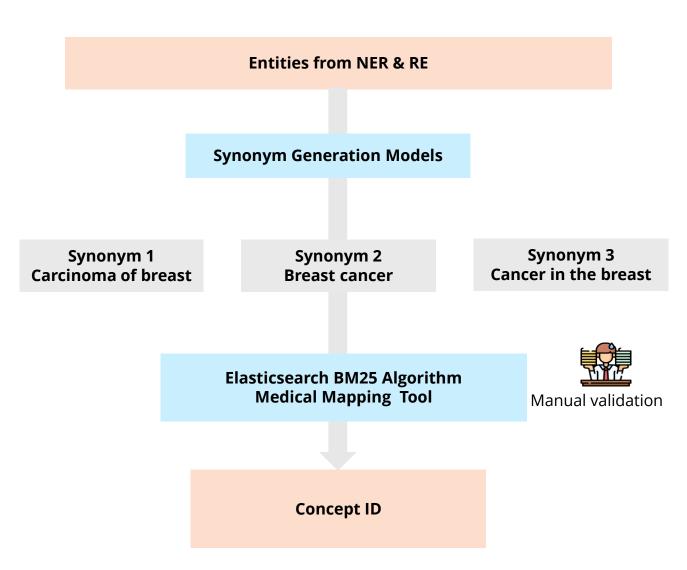
Evaluation



- Sentence classification of 2 classes:
- [Has_attribute, Negative]



NLP Step 3 - Concept Normalization & Vocabulary Mapping

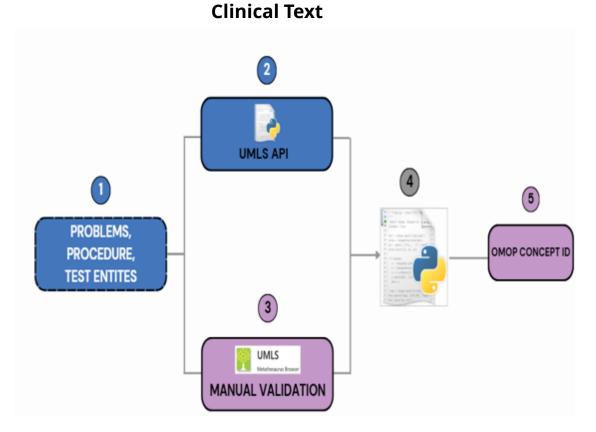


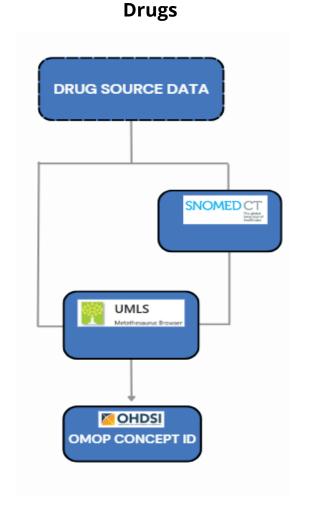




NLP Step 3 - Concept Normalization & Vocabulary Mapping

oncept Normanzation & vocabulary Mapping



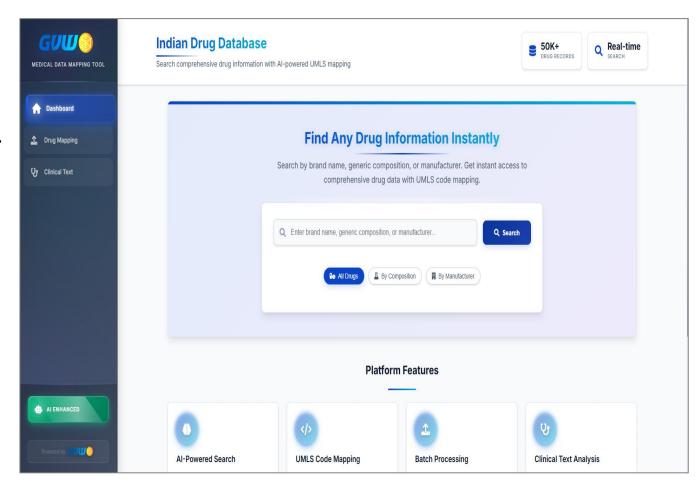




Medical Data Mapping Tool

Features -

- Maps terms to UMLS, RxNorm, and SNOMED CT.
- High accuracy with Gemini Al.
- Manual review and correction option.
- Auto spell-check and standardization.
- Identifies and standardizes abbreviations
- Maps Indian brand names to generics.
- Scalable for large datasets.

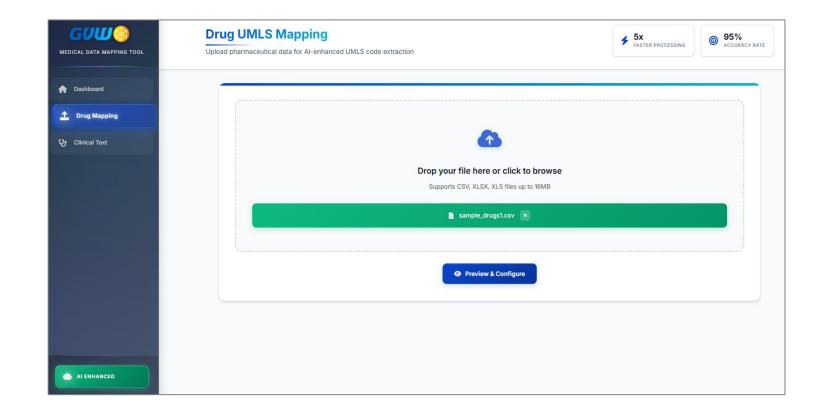




Medical Data Mapping Tool - Input

Input

drug	strength		
Pantoprazole	40 mg		
Dolo	650 mg		
Atorvastatin	40 mg		
Ultracet			
Aceclofenac			
Telma 40 mg			
Terbinafine			
Cetrizine 10mg			
Atorva	20 mg		
Metformin 500 mg			
Pan	40 mg		
Paracetamol 650 mg			





Medical Data Mapping Tool - Output

Term	CUI	Name	Source	Source Code	Semantic Types
pantoprazole 40mg	C1126048	pantoprazole 40 MG	RXNORM	330396	Clinical Drug
Dolo 650mg	C0691095	acetaminophen 650 MG Oral Tablet	RXNORM	198444	Clinical Drug
Atorvastatin 40mg	C1667395	atorvastatin 40 MG	RXNORM	597983	Clinical Drug
Ultracet	C1253063	acetaminophen / tramadol Oral Tablet	RXNORM	378712	Clinical Drug
acelofenac	C0050403	aceclofenac	RXNORM	16689	Organic Chemical Pharmacologic Subs
telma 40mg	C0990502	telmisartan 40 MG	RXNORM	316764	Clinical Drug
terbinafine	C0076110	terbinafine	RXNORM	37801	Organic Chemical Pharmacologic Subs
cetrzine	C0055147	cetirizine	RXNORM	20610	Organic Chemical Pharmacologic Subs
Atorva 20mg	C0286651	atorvastatin 20 mg	RXNORM	83367	Organic Chemical Pharmacologic Subs
Metfomrin 500mg	C0025598	metformin	RXNORM	6809	Organic Chemical Pharmacologic Subs
Pan 40mg	C0081876	pantoprazole	RXNORM	40790	Organic Chemical Pharmacologic Subs
Paracetamol 650	C0691095	acetaminophen 650 MG Oral Tablet	RXNORM	198444	Clinical Drug

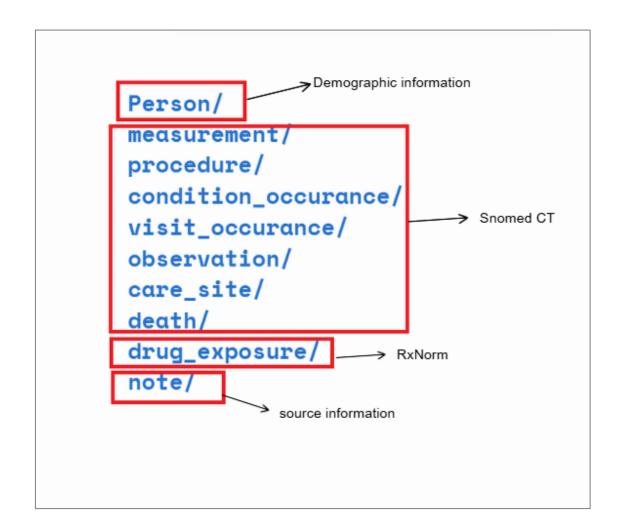


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OMOP CDM Table Structure



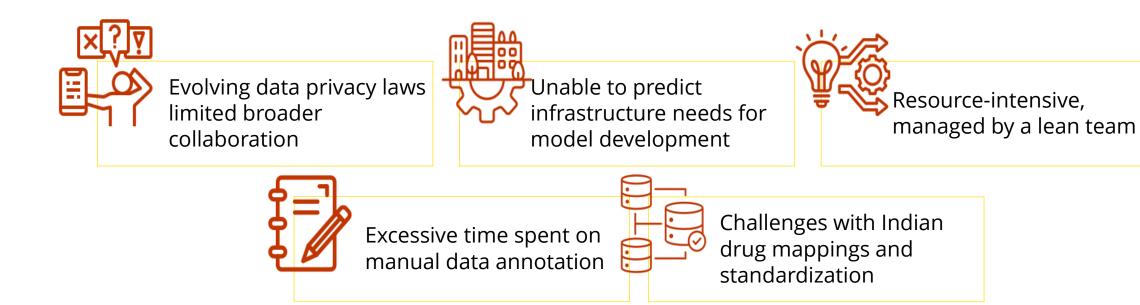


What We Learned

De-identification	Removed patient-identifiable information from clinical text
Named Entity Recognition	Extracted 5 main Entities : problem, test, medication, procedure, demographic details
Relationship Extraction	25 modifiers extracted Examples: temporal, disease, drug strength, dosage, frequency
	Contextualized: past vs current (based on discharge summary date)
Concept Normalization & Vocabulary Mapping	Mapped Indian drugs to OMOP concept IDs
	Built tool to convert extracted text/drugs to OMOP vocabulary



Realities of Research





Next steps

- Prepare and submit a publication on the study experience.
- Automate discharge summaries into standardized OMOP data.
- Provide an ATLAS overview and training to JSS researchers.
- Explore opportunities for networking and collaborative studies.
- Train and expand medical mapping tool for wider community use.



Preliminary Research Questions

Cohort characterization:

What are the demographic profiles, common comorbidities, procedures, drugs, and tests among inpatients with breast cancer?

Treatment patterns:

Among patients with [target condition], what procedures and discharge drugs are most commonly used, and how do patterns vary by age/sex?

Length of Stay Prediction

Use available features to predict prolonged hospital stays in breast cancer patients.

Prediction / Risk Profiling

Can baseline demographic and clinical features predict whether a patient will complete ≥6 chemotherapy cycles?



FHIR Work Group Initiative

Current team – Kumar Satyam (Associate Director at Providence India, HL7 Chair), Dr.Chandil (Co-founder at SVM hospital), Manish (Founder Yajur Healthcare), Parthiban (VP- Innovation & Growth, GVW), Swetha Kiranmayi (Service leader, GVW)

Objectives

ABDM-FHIR to OMOP Conversion

Enable structured mapping from ABDM-compliant FHIR to OMOP CDM for scalable, interoperable health data analytics

Global FHIR Guideline Adoption

Localize international FHIR standards to align with India's digital health architecture and support OMOP integration.

Advance Capacity Building and Community Engagement

Foster knowledge exchange through workshops, documentation, and open-source contributions

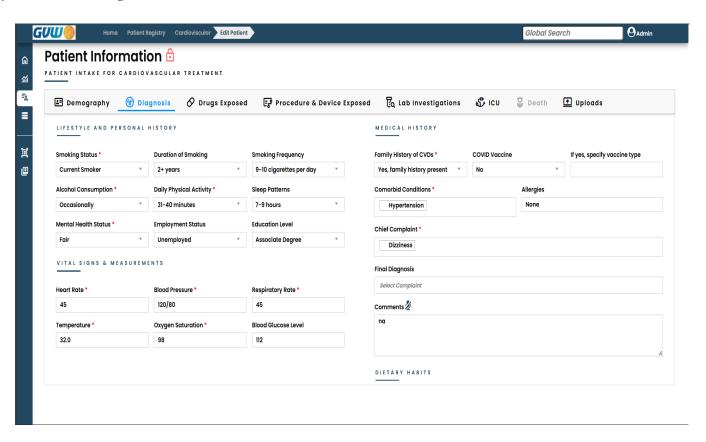


The CVD Patient Registry

Current team – Dr.Vikram Patil (Dy Dean,Research(Clinical), JSS AHER), Dr.Akshay (HOD Critical Care Medicine JSS Hospital), Dr.sunil Kumar (Cardiology specialist at JSS Hospital), Ranjani (Data manager at JSS Hospital), Dr. Swetha Kiranmayi (Service leader, GVW) Sushanth (Senior application engineer, GVW)

Features -

- Enhanced data capture & gap reduction
- OMOP compatibility
- Voice-to-text input
- Predefined fields with medical dictionary integration
- Automated backend coding
- Building capabilities for ABDM-FHIR readiness





Digital Health Centre of Excellence

Current team – Rintu Kutum (Group leader, Augmented Health Systems Laboratory. Faculty Fellow of Computer Science. Koita Centre for Digital Health at Ashoka. Mphasis Al & Applied Tech Lab at Ashoka. Trivedi School of Biosciences. Ashoka University), Parthiban (VP-Innovation & Growth, GVW), Swetha Kiranmayi (Service leader, GVW)

Aim – To unlock the potential of large-scale health data in India by enabling real-world data (RWD) generation **Objectives**

- Establish a collaborative hub for digital health innovation, standardization, and capacity-building.
- Drive ABDM & FHIR-aligned digital health technologies.
- Engage experts and stakeholders across clinical, technical, and academic domains.
- Use impactful case studies to inform policy and best practices.
- Build an integrated ecosystem combining data, technology, and evidence.
- Promote open science by linking FHIR & OMOP for reproducible research.
- Advance semantic interoperability for Indian health data integration and reuse.
- Secure funding to sustain and scale OHDSI India initiatives.





Join the journey - How to become an OHDSI collaborator

