

## OMOP MODEL FOR CLINICAL DECISIONS

Utilization of the OMOP CDM for RWD, enabling standardization and analysis of oncology data to support clinical decision-making.



### Company Overview

A renowned healthtech company dedicated to improving cancer treatment

### Industry

Health Technology

### Number of Employees

Over 1000 employees

### Location

NY, USA

### CHALLENGE

Oncology data, rich with varied procedures, regimens, and drugs, frequently creates inconsistencies in data representation. These inconsistencies, when paired with complex data structures, make it difficult in extracting actionable insights.

In the face of these challenges, the Sponsor identified the immense potential locked within this data. Believing that overcoming these obstacles could pave the way for groundbreaking insights in oncology research and treatment, the Sponsor enlisted the expertise of Maxis Clinical Sciences (MCS). Known for their proficiency in clinical data analysis and adherence to meticulous, standardized methodologies, MCS was approached to tackle the complexities and introduce a standardized, efficient approach. The objective was clear: transform the chaotic oncology data landscape to derive meaningful insights.

### SOLUTION

The Observational Medical Outcomes Partnership (OMOP) Common Data Model emerges as a silver lining, offering a standardized and adept method to dissect and derive insights from such data. We identified a diverse oncology dataset that included medical records, claims records, pharmacy claims, laboratory data, and -OMICS data. To align with global regulations, all these data points were rigorously anonymized to ensure GDPR compliance. The transformation of this data from its native format to the OMOP CDM format was carried out using standardized ETL processes. These processes involved careful mapping of source data elements to their corresponding OMOP CDM concepts, ensuring the preservation of all original associations. Additionally, for global accessibility, all this data was securely uploaded to Maxis-Cloud.



### Data standardisation and harmonisation



### Oncology data analysis and data-driven insights



### Personalised solutions to improve patient satisfaction and care outcomes

## OUTCOME

With the data suitably formatted and stored, we started our journey of analysis. We generated varied insights focusing on patient cohorts, treatment patterns, and diverse outcomes. The primary aim behind these analyses was to evaluate the real-world effectiveness and safety parameters of oncological interventions.

## BENEFITS

Our efforts have produced multiple tangible benefits for the healthcare community. The data, now aligned with the CTR 2.6 platform, is effortlessly findable, accessible, interoperable, and reusable (FAIR). The ease of data ingestion was made possible with the integration of the MaxisIT API Adapter. Within the OMOP CDM's Metadata Repository (MDR), we ensured meticulous management of vocabularies and dictionaries. The data verification was stringent, with well-configured business rules.

Another feather in our cap was the enriched data obtained by adept healthcare coding using a multitude of dictionaries. Most importantly, throughout the process, the sanctity of sensitive data was maintained by impeccable de-identification procedures.

I hope this reorganization aligns with your requirements. Let me know if further adjustments are needed.



"Turning to Maxis Clinical Sciences was a game-changer for us. Their adept use of OMOP CDM and real-world evidence transformed our complex oncology data into actionable insights. But it was their dedication and commitment to our mission that truly set them apart. Thanks to Maxis Clinical, we're not just enhancing patient care and outcomes; we're innovating our oncology care approach."

-- Chief Medical Officer

## ABOUT MAXIS CLINICAL SCIENCES

Maxis Clinical Sciences is a pioneering integrated research competence center and specialized management consulting organization. We are dedicated to advancing drug development, healthcare equity, and digital transformation in the healthcare and life sciences sectors. As a strategic partner, we deliver customized, innovative solutions that align with our clients' unique goals. We are not merely providing resources; we are instigating transformation.

Visit our website to learn more: [www.maxisclinical.com](http://www.maxisclinical.com)