

# MedInsight Query Express



Healthcare organizations possess vast quantities of valuable data. The opportunity for leveraging big data for healthcare business intelligence is virtually limitless. However, the volume and complexity of data, combined with demand for more advanced analyses, have created a barrier for organizations to realize maximum leverage from their data assets. Milliman's MedInsight® Query Express (QE) offers an effective solution for organizations looking to take healthcare data analysis to the next level.

MedInsight QE gives users robust capabilities to generate queries directly against the MedInsight database. The user may create customized member and/or claim line-based data sets and then generate detailed queries using the created data sets. Additionally, set operations are provided in QE to allow a user to join sets to create detailed unions or subsets. QE, in essence, allows the user to generate sophisticated queries without being a coding expert through an intuitive drag-and-drop interface.

QE enables the user to quickly create a query to build a set for extracting data. Other key features of QE include:

## Functionality

- A population cohort can be easily defined and then used to extract member and claims experience
- Previously saved extract criteria—queries—can be leveraged to extract current data as new data becomes available
- Population cohorts extract queries can be saved for repetitive analysis
- Users can easily upload lists of values and identifiers for use in query conditions such as Current Procedural Terminology (CPT) codes, National Drug Code (NDC) codes, International Statistical Classification of Diseases (ICD) procedure codes, ICD diagnosis codes, member IDs, and provider IDs
- Analysts can combine multiple populations to create new subpopulations, such as enrollees diagnosed with congestive heart failure (CHF) who had an inpatient admission and also had an emergency department (ED), by using set operations
- Queries and sets may be shared among coworkers to ensure consistent data extraction criteria

## Speed/Performance

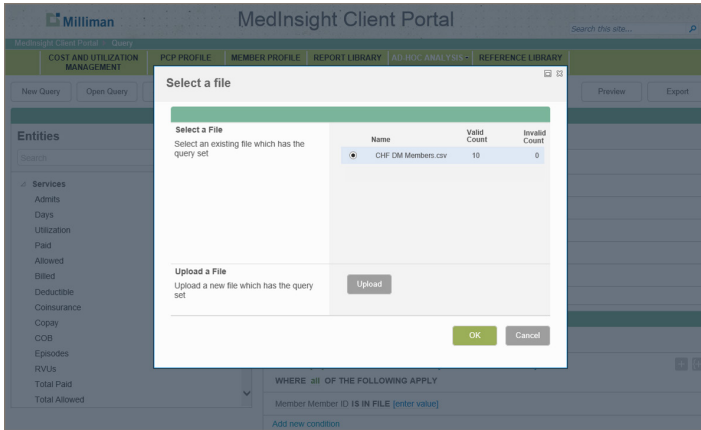
- Queries run on a Microsoft parallel data warehouse appliance, which provides performance that allows queries to run in less than one 10th of the time of traditional Structured Query Language (SQL) databases

## User Interface/Usability

- Automation of many analyst steps for running ad hoc queries
- Simple, easy-to-use interface to run ad hoc queries, designed for non-programmers
- Intuitive drag-and-drop interface allows creation and export of large results sets that can be imported into a reporting tool of your choice
- Queries, set, and set operations support the ability to string several query steps into a single ad hoc query

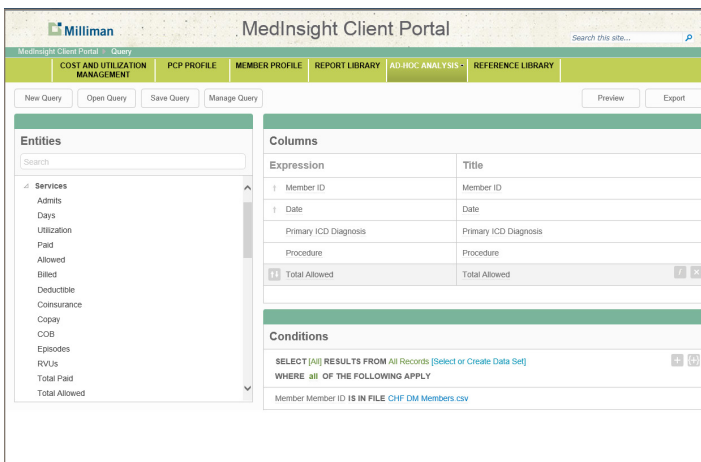
## Examples of Use Cases

- Identify two cohorts of diabetics: 1) those with high evidence-based medicine (EBM) compliance, and 2) those with low EBM compliance. The rates, cost, utilization, and demographics for the cohorts can be compared and analyzed
- Define a population of hepatitis C patients and create a report that compares the cost and utilization of those receiving and those not receiving hepatitis C drug therapy
- Upload a list of patients in a CHF disease management program and extract claims detail for further analysis (See following example)



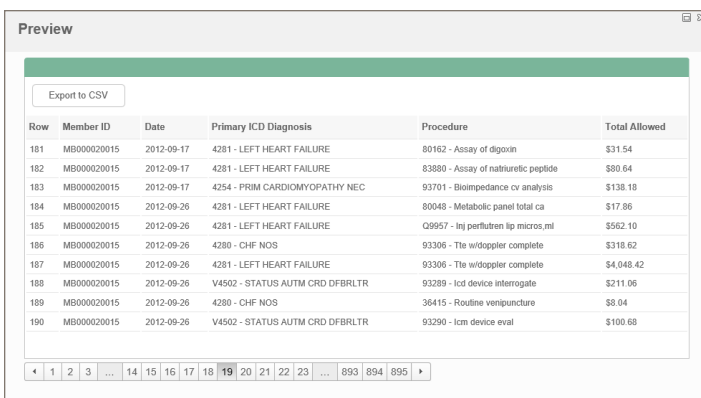
## Upload a List of Values or Identifiers

The analyst can upload a list of codes, Member IDs, or Provider IDs, or can access previously uploaded lists.



## Building a Query With Drag-and-Drop Functionality

Using drag and drop dimensions and measures the analyst builds a query that uses the uploaded list to pull claims detail.



## Quick Return of Downloadable Results

The query returns data within minutes and is easily downloaded.