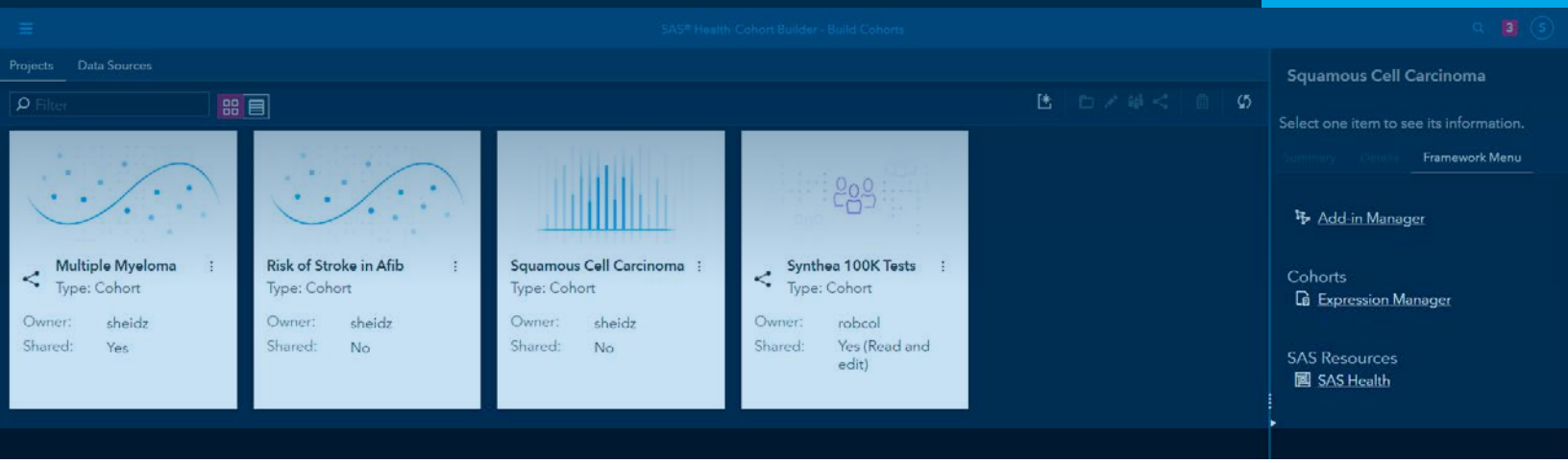
SAS® Health Cohort Builder

Easily and confidently build patient cohorts using trusted analytics



Key Benefits

With SAS Health Cohort Builder, you can:

- **Generate evidence from real-world data (RWD)** by preparing and managing fit-for-purpose data for research- and regulatory-grade analyses – critical for realizing value of RWD.
- **Build cohorts faster** as you easily access complex data sets without extensive programming time and skills.
- **Improve data integration** by enabling seamless integration from data management through insight generation and sharing.
- **Access up-to-date code sets and data ontologies** (provided by Wolters Kluwer Health Language data quality solutions) that provide consistency and reliability for your analytical efforts.
- **Speed time to insight** with improved automation and collaboration for all teams and users.
- **Increase governance and transparency of data, processes and analytics** by confidently managing permissions and access for improved compliance.

Overview

Health care researchers and regulatory agencies need a more comprehensive view of individuals and populations to make confident decisions about health care and policy. But clinical trial data, electronic health records, claims data and adverse-event reports are only snapshots of patients at random points in time. To provide real value, a holistic patient profile is necessary to achieve the greatest effect on health and wellness.

SAS Health Cohort Builder enables quick discovery and creation of patient cohorts for population health analytics, clinical feasibility analysis, safety and efficacy, and more. Because it is part of SAS Health, it provides robust analytical capabilities to research previously unanswerable questions. SAS Health Cohort Builder enables you to:

- Easily integrate with RWD data lakes in the cloud.
- Accelerate time to insight through improved collaboration and reusable complex concepts, variables and index events.
- Realize an increased return on real-world data investments through shared data and analytics.
- Access a leading predictive analytics platform to get the most from your investment.
- More efficiently conduct observational and outcomes research.

With SAS® Health Cohort Builder you can:

- **Interact directly with complex data**, explore target populations and visualize cohort characteristics – all without having to know how to write code.
- **Reduce or eliminate the repetitive process** required to build cohorts and complete observational studies through automation. Cut time from weeks to hours or days.
- **Use a purpose-built analytical application** that enables business users to access data and analytics, either through the web or in the programming interface of your choice (including R and Python).
- **Test reproducibility** to quickly confirm hypotheses, eliminate model biases and examine the accuracy of results.

The Solution

SAS Health Cohort Builder helps you effectively generate patient insights at every point of therapeutic intervention or stage of the product life cycle. Clinical researchers can find areas for discovery and develop drugs and therapies more efficiently to better understand product and drug safety, effectiveness, adherence, and economic and societal value. Health services researchers can investigate how to deliver quality care to yield improved outcomes and value to their members and patients.

SAS offers an end-to-end approach based on an open analytics platform addressing the diverse needs of health organizations that wish to use real-world data. The solution enables you to:

- **Manage real-world data assets.** Easily integrate real-world data from internal and third-party sources. An automated process cleanses and prepares the data and maps it to a common data model for side-by-side comparison. You spend less time preparing data and more time learning from it.
- **Identify patient cohorts of interest.**
  An interactive drag-and-drop cohort builder supports complex cohort queries with temporal relationships – no coding required. You can easily explore cohort characteristics and the effect of inclusion/exclusion criteria on patient populations to determine study feasibility. Cohort definitions can be saved for reuse, modified and applied to other real-world data assets for comparisons across populations, saving time and resources.
- **Generating knowledge and insights via analytics.** Navigate, visualize and explore data quickly with an intuitive web-based interface, as well as a programming interface. A library of prebuilt analytical models infused with innovative algorithms provides access to a wide range of analytic tools – from simple descriptive statistics to predictive analytics and machine-learning methods.

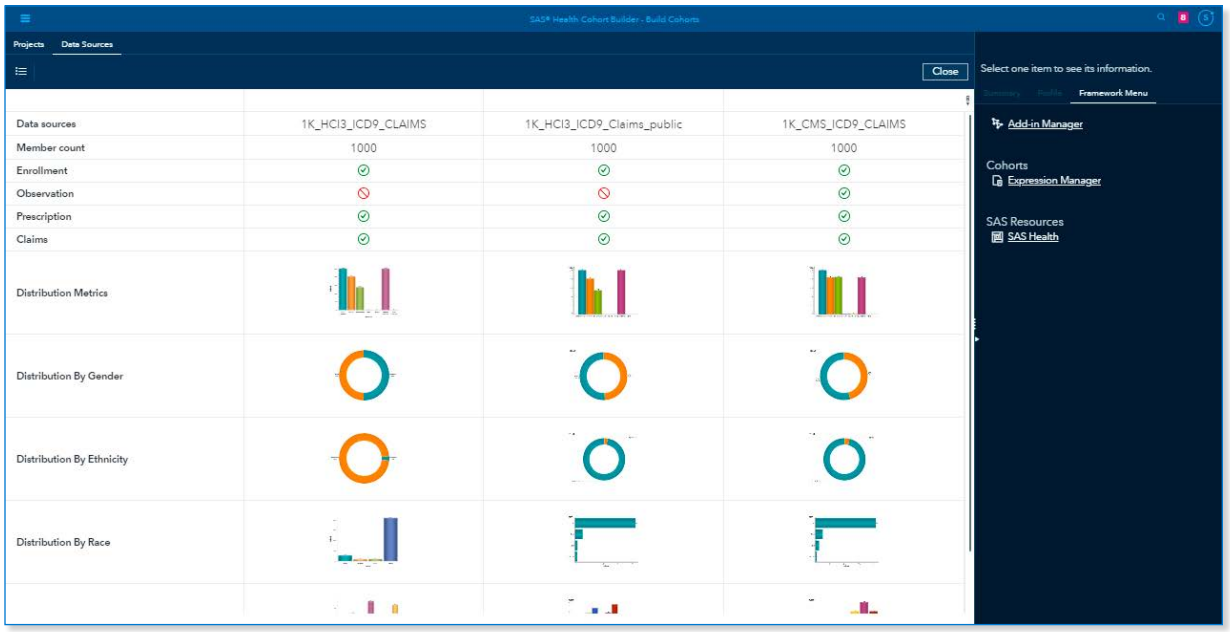


Figure 1. Easily compare data sources relative to target cohort characteristics.

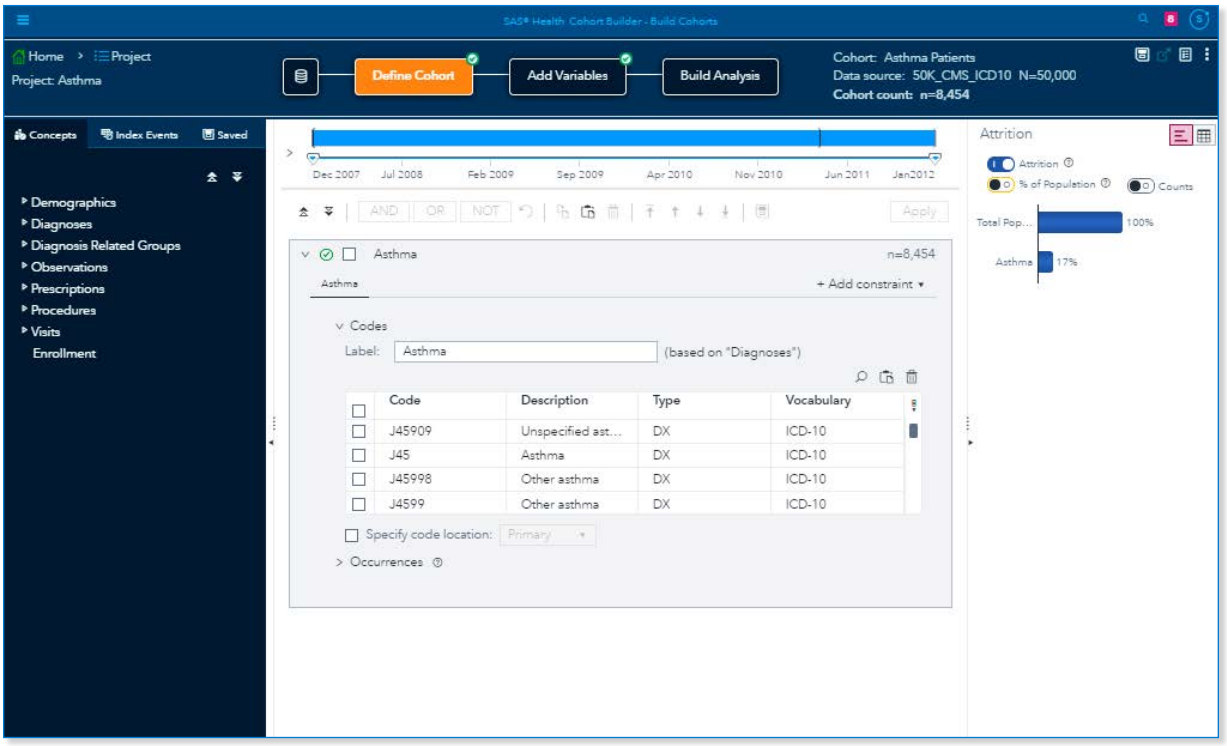


Figure 2. Interactively build and save patient cohorts.

Capabilities

Data integration and management

Brings together all real-world data sources in a single platform. Automatically maps data to a common data model and updates cohorts and outputs as new data arrives.

Interactive cohort discovery and visualization

Identify research cohorts without coding. Complex queries can go beyond simple subsetting to selecting criteria with multiple temporal relationships and Boolean logic.

Powerful self-service analytics

Provides a library of analytic methodologies that includes simple descriptive statistics, predictive analytics and machine-learning methods.

Flexible deployment options

Runs on commodity hardware, in a private or public cloud infrastructure, Cloud Foundry platform as a service (PaaS) or managed software as a service (SaaS).

Learn More

Discover your future in digital health analytics with SAS Health at sas.com/health.

For more information, please visit sas.com/health