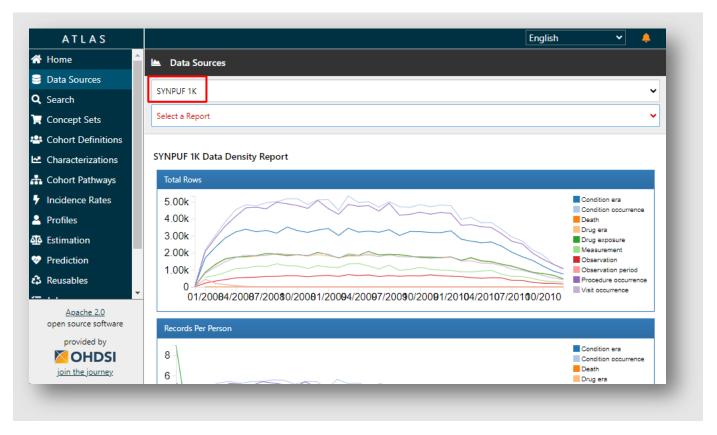
Getting Started Guide to ATLAS

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ATLAS - Introduction

- 1. ATLAS Video Tutorials
 - a. https://www.ohdsi.org/resources/tutorials/
 - b. These tutorials are between 6 and 15 minutes and are a great intro to this tool.
- 2. Investigate ATLAS early with a free online instance of the application hosted by the OHDSI community.
 - a. http://atlas-demo.ohdsi.org/#/home
 - b. Use one of the Synthetic Data Sources and explore the various **Reports** that summarize the clinical data in all the OMOP tables.



ATLAS - GETTING STARTED at Regenstrief

Requirements

- IU Account
- VPN connection to the IU HSN VPN

Install and Setup the IU VPN for access to the HSN network.

- IU VPN instructions:
- https://servicenow.iu.edu/kb?id=kb_article_view&sysparm_article=KB0023005

Accessing ATLAS at Regenstrief

1. Access ATLAS

- a. Connect to the IU HSN VPN
- b. Visit this website: https://ohdsi.regenstrief.org/atlas
- 2. Login with your IU Credentials by navigating to the "Sign In" button in the upper right.
 - a. Use the "CAS" to Login using your IU Credentials.
 - b. This may require 2 factor authentication.
- 3. Important details of ATLAS at Regenstrief
 - a. The current Regenstrief Data Services instance of ATLAS stores content for multiple OMOP Data marts, but user access is restricted to approved content.
 - b. User created Concept Sets, Cohort definitions, Characterizations are shared across all active users.
 - c. Navigation and menu options are displayed on the left panel.

ATLAS Features

1. "Data Source" and viewing "Reports"

- a. These Reports provide an overview and summary data for all Tables in OMOP
 - i. Data Model overview: https://ohdsi.github.io/TheBookOfOhdsi/CommonDataModel.html
- b. Users can select from the available, approved Data Sources and choose a Report from the drop-down menu.
- c. In addition to the Tree-map, the "Table" view provides the table dependent content, and most Reports contain the most frequent counts of content, Person Counts, Prevalence, and Records per Person of any selected clinical concepts.
- d. More details can be displayed by clicking on any "row" of this Table data to obtain the Drilldown Report.

2. "Search"

- a. Allows searching the entire OMOP vocabulary by concept name and concept codes.
- b. This data is also available from OHDSI using Athena: https://athena.ohdsi.org/search-terms/terms
- c. Selecting any desired concept will provide more details and transfer users to the "Concept Sets" menu option.

3. "Concept Sets"

- a. Allows viewing of all vocabulary content and building a group of concepts for later use when creating Cohorts
- b. Initial view will show all Sets built over time from All Users.
- c. Users can view and modify Concept Sets or build new Concept Sets.
- d. Viewing the details of individual Concepts will show Details, Related concepts, Hierarchy, and actual Record counts of the concepts in all Data Sources to which users are assigned.
- e. RC = Record count: The number of records that are coded with this concept in the OMOP CDM.
- f. DRC = Descendant Record Count: Sum of all descendant concepts that are coded in the OMOP CDM.

4. "Cohort Definition"

- a. Cohorts are shared across all users of the system and can be run on any Data Source to which users are assigned.
- b. Please review this video tutorial that will walk through a Cohort example of Ace inhibitor use in persons with Hypertension
 - i. https://www.youtube.com/watch?v=JQFGedOaNiw
- c. Components of the Cohort definition
- d. Entry events What to observe to a person enters a cohort
- e. Inclusion criteria Applied to the entry event to define the sub population
- f. Cohort exit How does a person leave the Cohort.

5. "Characterization"

- a. Is defined as the process of generating cohort level descriptive summary statistics from person level covariate data.
- b. Please review this video tutorial which describes the design of a Characterization https://www.youtube.com/watch?v=FU8DqF1mcDQ
- c. Key elements are:
 - i. Cohort definition
 - ii. Feature analysis
 - iii. Subgroup analysis
 - iv. Feature analysis parameters
- 6. When creating any content in the application the **Menu bar** at the top provides the ability to save, cancel, copy, tag, link, delete, etc. using these icons.

