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Cohort Definitions using Atlas

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Abstract

A demonstration of the Atlas application, focusing on cohort definition. Topics include data source characterization review, vocabulary exploration, cohort criteria, inclusion criteria and inclusion rule impact analysis.

Introduction

Atlas is a recently developed tool in the OHDSI technology stack that incorporates features for vocabulary exploration, cohort definition, inclusion rule impact assessment, cohort characterization and datasource characterization. The purpose of this demonstration is to demonstrate the cohort definition process, starting with vocabulary exploration to identify concepts, concept set construction for use in cohort criteria, and review of inclusion rule impact analysis.

Presentation Syllabus

1. Using data source characterization to guide decision making about cohort definitions

2. Create concept sets to define code lists used in cohort criteria.

3. Create a simple cohort definition

4. Exclude people from cohort using Inclusion Rules

5. Demonstrate inclusion rule impact analysis

Example Screens

Figure 1: Concept Set Editor

Figure 2: Cohort Definition Editor

Conclusion

Atlas is a very complex application bringing many different capabilities into a single application. The purpose of demonstrating the features is to inform the general OHDSI community about these tools, and help them begin producing their own study populations in their own environments.

References

1. Atlas: http://www.ohdsi.org/web/atlas/#/home