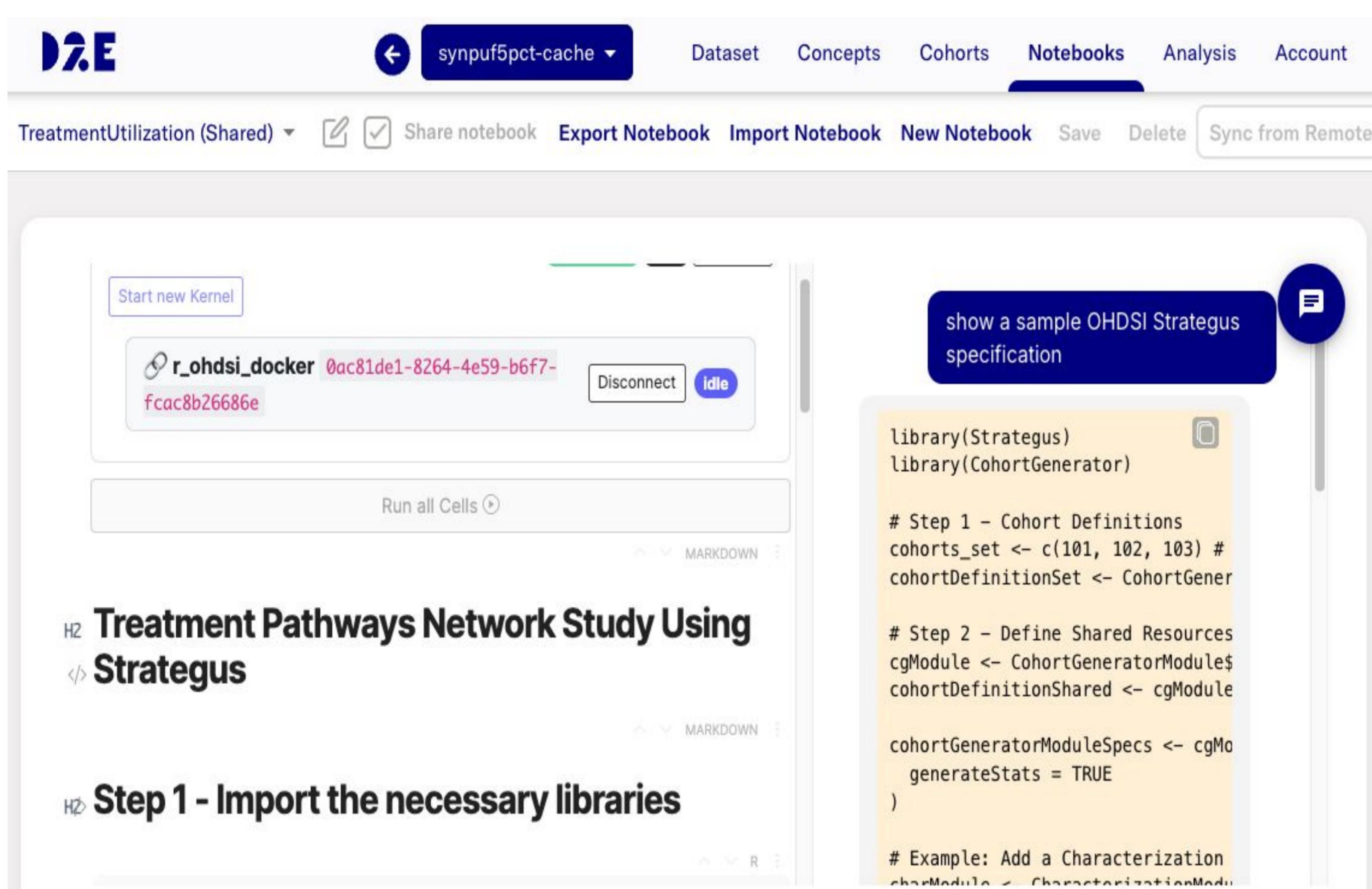


The intuitive and interactive Data2Evidence platform simplifies and accelerates OHDSI network study workflows

Integrated OHDSI Network Study Design and Execution in Data2Evidence

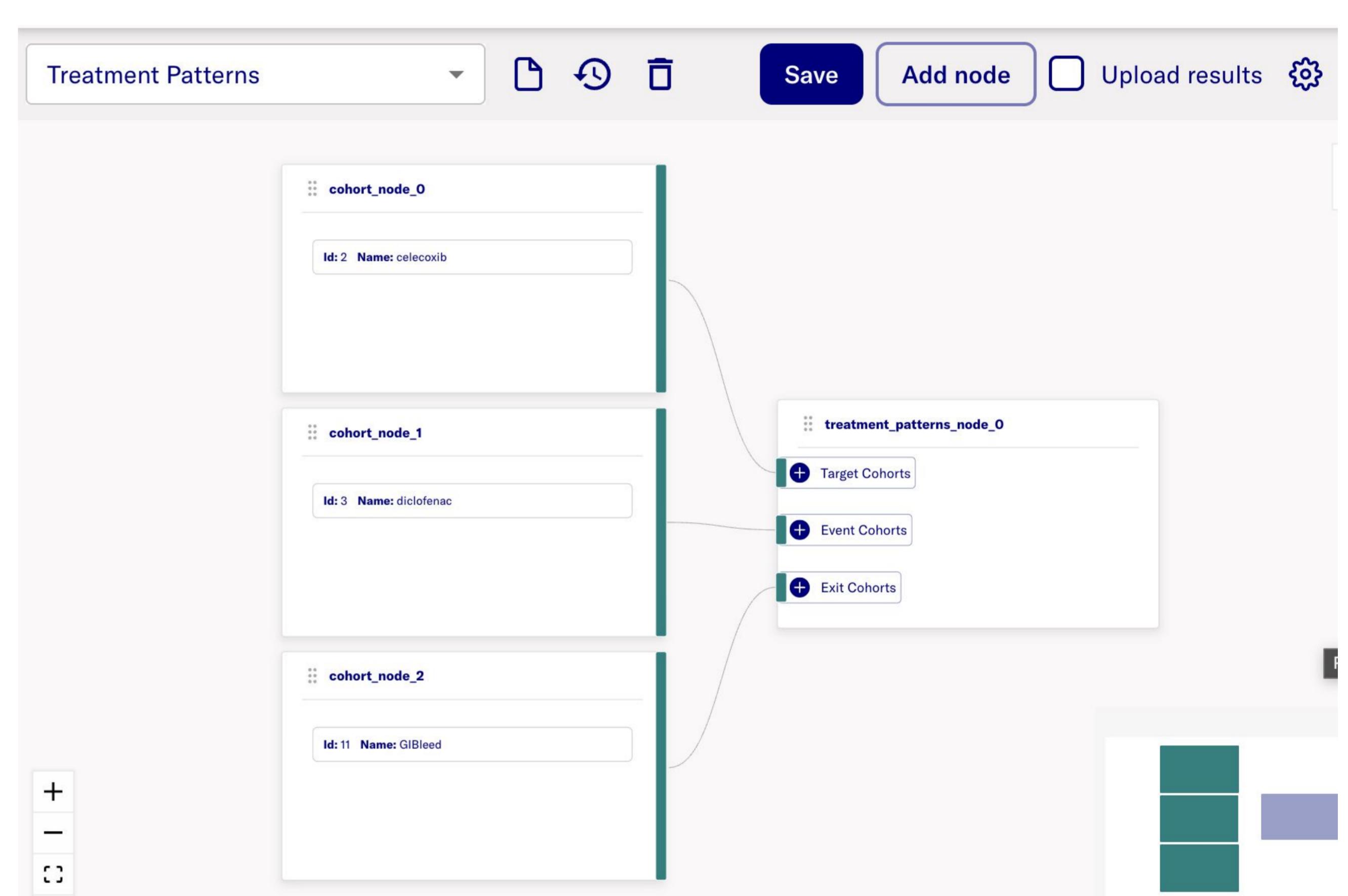
Running a network study in OHDSI, currently, requires multiple solutions to be set up and for the user to be technically proficient. We propose a solution that unifies network study design, execution, and result visualization within a single platform. Using the platform, one can create new studies, review existing ones, and create or manage metadata such as cohort definitions and study specifications. The execution environment provisioned by the platform also handles installation of all required modules and dependencies.

Study Design - Notebook Interface



The screenshot shows a Jupyter-style notebook interface. At the top, there's a header with the Data2Evidence logo, a dropdown menu, and navigation links for Dataset, Concepts, Cohorts, Notebooks (which is selected), Analysis, and Account. Below the header, there are buttons for Share notebook, Export Notebook, Import Notebook, New Notebook, Save, Delete, and Sync from Remote. The main area contains a code editor with R code for a Treatment Pathways Network Study. The code includes library imports for Strategus and CohortGenerator, and R code for defining cohort sets, shared resources, and cohort generator module specifications. A side panel on the right shows an AI chat interface with a message about showing a sample OHDSI Strategus specification.

Study Design - Graphical Interface



The screenshot shows a graphical interface for study design. It features a central workspace with nodes and edges. Nodes include 'cohort_node_0' (Id: 2, Name: celecoxib), 'cohort_node_1' (Id: 3, Name: diclofenac), 'cohort_node_2' (Id: 11, Name: GI Bleed), and 'treatment_patterns_node_0'. Edges connect 'cohort_node_0' to 'treatment_patterns_node_0', 'cohort_node_1' to 'treatment_patterns_node_0', and 'cohort_node_2' to 'treatment_patterns_node_0'. The interface includes a toolbar with 'Treatment Patterns', 'Save', 'Add node', 'Upload results', and other options. A legend on the right identifies node types: Target Cohorts (blue), Event Cohorts (green), and Exit Cohorts (orange).

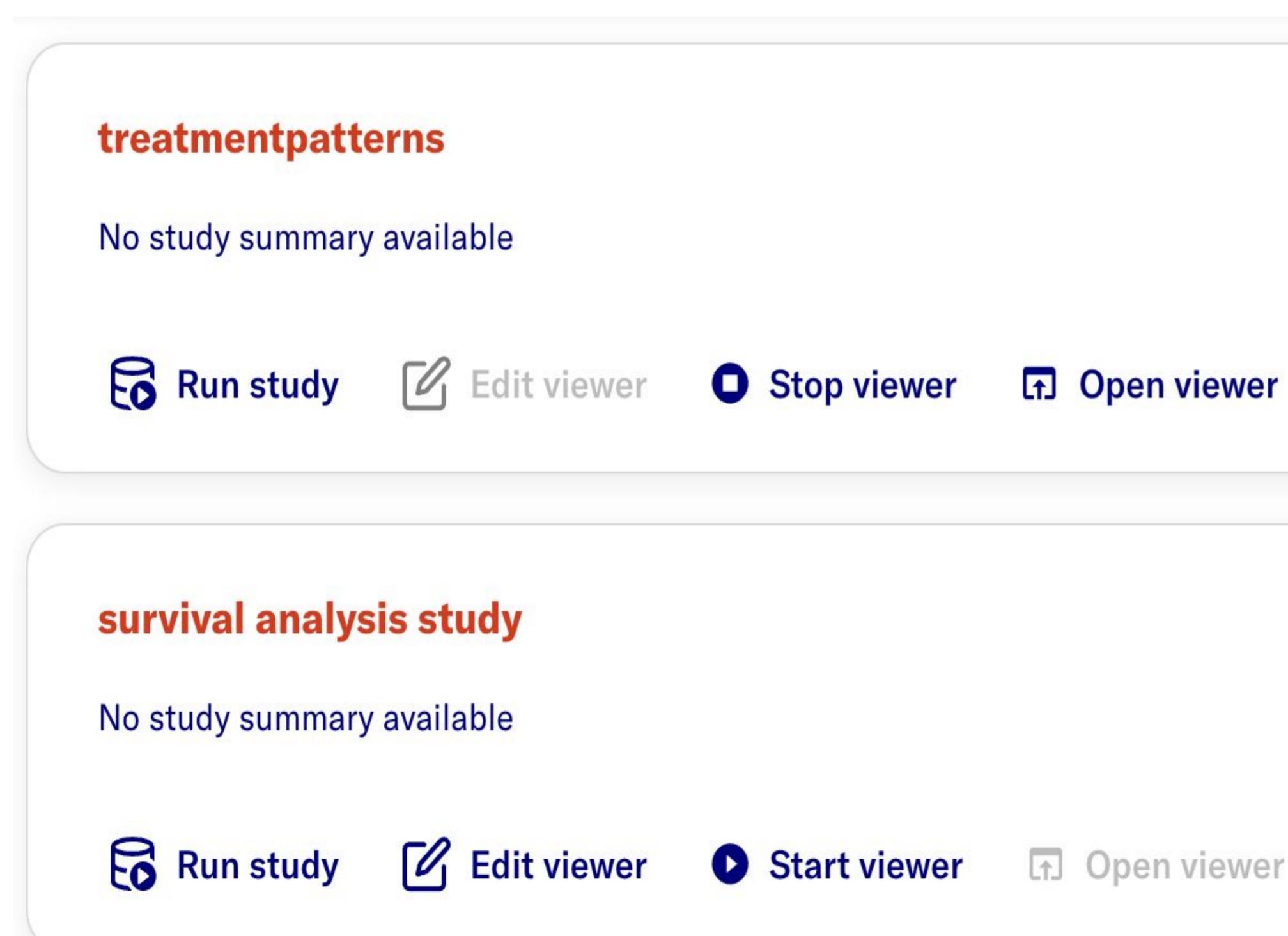
Jupyter-style notebook interface serves as the code editor enabling advanced users to design the study specification in R programming language. The interface is connected to a customized R kernel bundled with rD2E and the OHDSI HADES R packages avoiding the hassle of setting up an executable environment.

AI chat interface is available on the side panel to query a model for the development of the network study.

The graphical interface includes nodes and edges complementing R packages to enable non-technical users to easily design study specifications through an interactive drag-and-drop system.

Each node contains adjustable parameters and values representing a specific function e.g. CohortNode with cohort Id. In addition, the interface provides cues such as labels and color-codes to define relationship between nodes.

List of Studies



The screenshot shows a list of studies. The first study, 'treatmentpatterns', has a note 'No study summary available' and buttons for 'Run study', 'Edit viewer', 'Stop viewer', and 'Open viewer'. The second study, 'survival analysis study', also has a note 'No study summary available' and similar buttons. A callout box to the right of the studies provides information about the available studies in the system, mentioning that they can be added from OHDSI GitHub and executed on different datasets.

Result Viewer

