

Study Agent support for users of the OHDSI real-world evidence methods library HADES

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Use of Generative AI in this presentation

I used OpenAI GPT 5.2 Pro and Codex to assist with developing the outline and many of slides in this presentation. I have reviewed and edited AI-generated slides where corrections were needed. I have also double-checked all facts and citations suggested by AI before accepting them as final. No patient-level data or confidential institutional data were entered into AI tools.

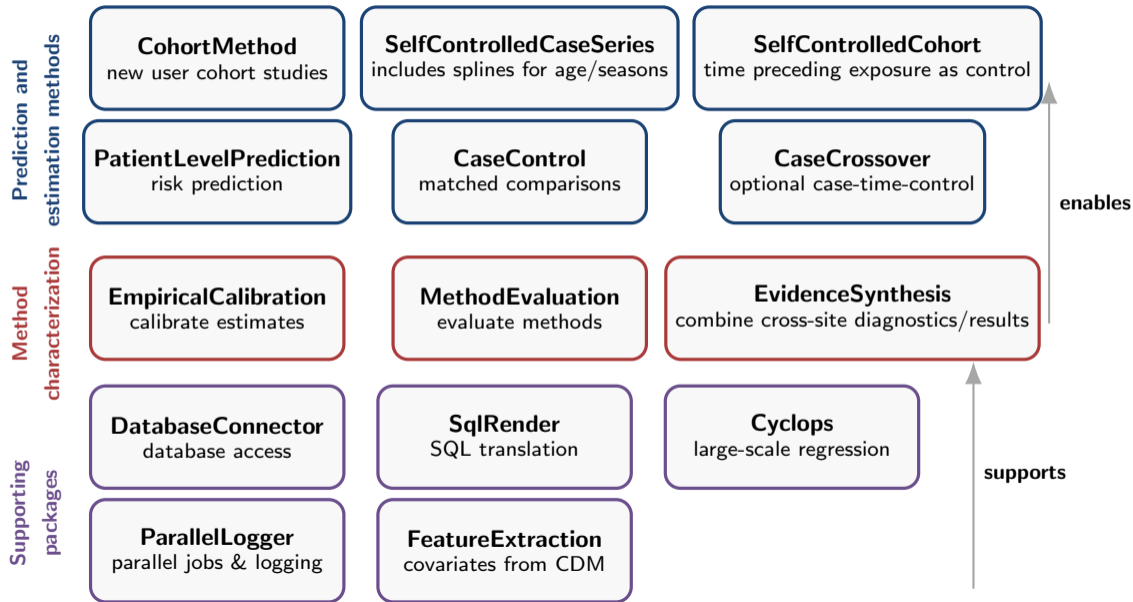
The OHDSI real-world evidence methods library - HADES

HADES (the Health-Analytics Data to Evidence Suite)



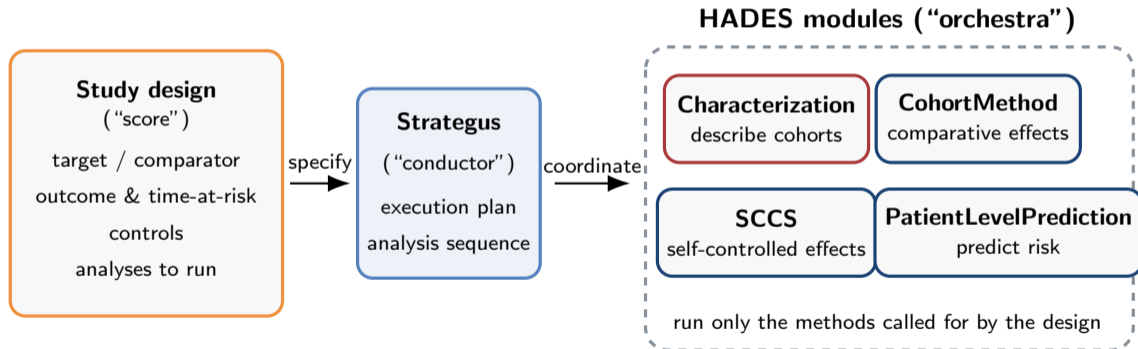
- open-source
- executes directly against healthcare data such as EHR and administrative claims converted to the OMOP common data model
- characterization, population-level causal effect estimation, and patient-level prediction
- runs across a wide array of technical environments
- implements OHDSI best practices

A visual overview of HADES



If HADES is the orchestra, Strategus is the conductor

Strategus is an important OHDSI package that coordinates study execution based on a JSON specification that can be shared across sites



standard specification in → coordinated multi-package execution → standardized results out

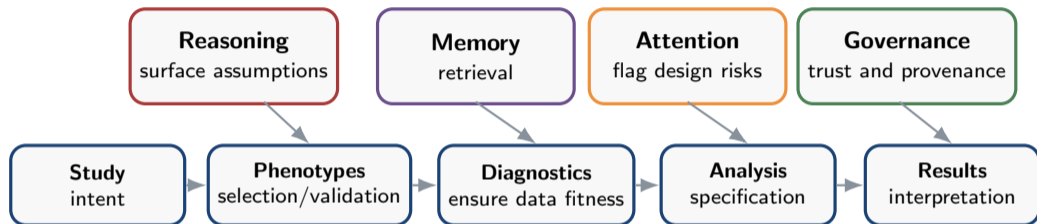
Human–AI teamwork with HADES: complementarity, not replacement

AI support should not to automate judgment and, thereby, dilute accountability.

Rather, the AI should be a team member that complements and strengthens the researcher's ability to interrogate, justify, and decide.



OHDSI Study Agent's role for HADES users

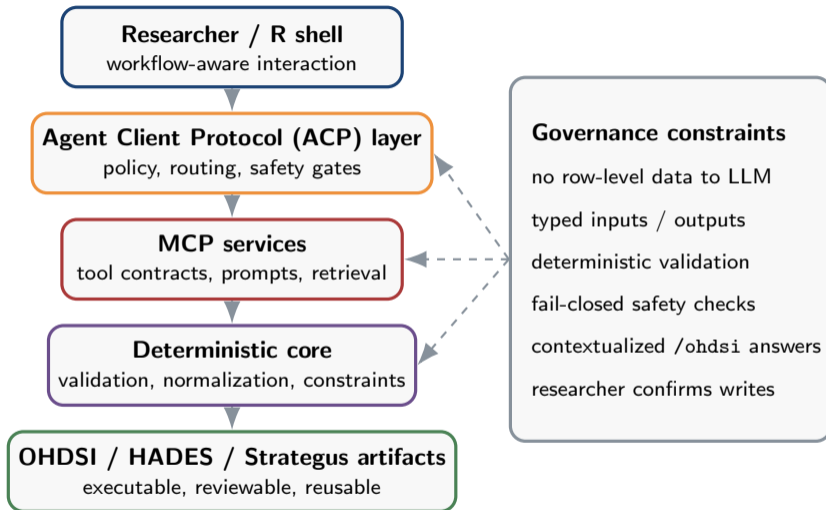


Study Agent targets judgment-heavy points where OHDSI researchers need retrieval, critique, guardrails, and workflow-aware question answering.

Demonstration of Study Agent with HADES CohortMethod using R



Study Agent architecture: agentic help, governed workflow



Not an unconstrained chatbot: a governed agentic layer around real OHDSI workflows.

Study Agent roadmap for HADES

Next 6 months:

- User test currently implemented features
- Add high priority features
- Integrate relevant and validated OHDSI agentic AI projects
 - Broadsea for dissemination and as a functional sandbox.
 - Phenelope concept set creation
- Integrate with deterministic OHDSI tooling
 - Atlas 3.0 and 4.0 integration
 - Broadsea for dissemination and as an execution sandbox
 - Darwin tools

Acknowledgements

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Code contributions and issue tickets welcome!



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