

**OBSERVATIONAL
MEDICAL
OUTCOMES
PARTNERSHIP**

OMOP's Future Plans

Thomas Scarnecchia

OMOP Continuation

- Initial research program identified additional methodological research questions
- Efforts are underway to sustain OMOP beyond 2011 as an ongoing effort

Objectives for Continuation

- OMOP is pursuing the continuation of its mission to improve the ability for drug safety (and benefit) monitoring:
 - Advance methodological research to explore the performance of methods over time, within populations of interest, and across a broader array of medical products and health outcomes
 - Refine and enhance OMOP's tools and capabilities
 - Sustain the shared resource (research lab) so the research community maintains an open forum for collaborative research

2011 Research Goals

- Improve the evaluation of existing analytical methods in an expanded set of test cases
- Enhance existing OMOP analytical methods and pursue development of novel methods
- Further explore false positive and false negative drug-HOI pairs
- Improve HOI definitions and explore more efficient approaches to definition development
- Investigate impact of grouping drugs or outcomes on methods performance

Longer Term Research Plans

- Expand OMOP's methods program to a broader array of medical products
 - Medical Devices
 - Biologics
- Evaluate alternative data resources
 - Extended Consortium data partners
 - Partnerships with European research programs
 - Registry data
- Expand methods program beyond product safety
 - Comparative effectiveness – analytical methods
 - Healthcare quality measures – data characterization

Research Lab

- Expanding available computational resources
 - Amazon Elastic Cloud
 - Up to 250 Linux processors available
 - Access to high performance GPU-based servers
- Tools
 - Oracle, R, SAS, C++, perl, Python, Java, Prolog
 - Methods Library
 - HOI Library
 - OSCAR, NATHAN, GROUCH
 - Spotfire

Research Lab

- Current data resources
 - One EHR and four claims data sets
 - Snapshot of data from 2008
- Plans
 - Refresh datasets
 - Implement periodic updates in 2011
 - Update to CDM
 - Generate OSIM II simulated datasets
 - Evaluate options to retain distributed network

Research Lab

- Available to OMOP participants
 - To pursue OMOP's research agenda
 - Restricted to methodological research
 - Research activities fall under OMOP governance
 - Work product goes into the public domain

Opportunities to Collaborate

- Seeking collaborators to work on 2011 Research Plan
- Opportunities include
 - FNIH Grants
 - Contract project work
 - Collaborations
- Watch for upcoming RFP

For more information contact:

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