

**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

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