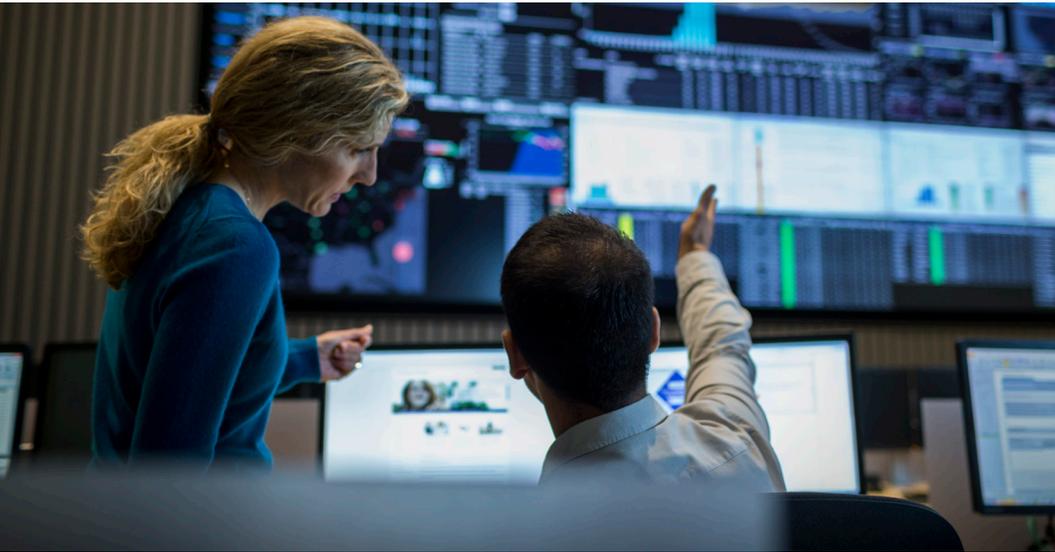


Optum Patient Profiles



Optum[®] Patient Profiles are a curated set of profiles that take advantage of Optum data resources to create a customized picture of patients and their health. Utilizing data from medical claims and electronic health records, Optum creates de-identified individual patient profiles customized by client-specified criteria. Optum Patient Profiles reflects the real promise of big data to make connections among innumerable points of data and utilizes Optum research and clinical knowledge for valid case sampling and curation.

Optum Patient Profiles include broad and deep chronological details of each patient's health data. Each profile includes a chronological listing of the services the patient received, including office visits with diagnoses and laboratory results, medications prescribed or dispensed at a pharmacy, diagnostic and therapeutic procedures, and hospitalizations. These profiles can mimic the traditional clinical vignettes for medical insights, yet allow for the compilation and review of questions of interest on a scale that is almost impossible outside the realm of big data repositories. In addition to individual patient details, averages and distributions can be seen across the curated set of profiles.

Clients drive the selective curation of these patient profiles by setting custom parameters for queries about disease, exposure, symptoms or outcome. Optum researchers use a central data repository that allows for rapid, targeted queries to compile the patient profiles. Clients then access the curated profiles through a web-based viewing tool.

Value for public health and health care operations

Refine research questions	<ul style="list-style-type: none">• Evaluate study feasibility• Assess availability of data• Inform clinical trial planning through assessment of population eligibility and eligibility pre-screening• Develop and refine hypotheses
Conduct health surveillance	<ul style="list-style-type: none">• Conduct population surveillance for public health• Conduct pharmaceutical and medical product surveillance
Verify data and complex variable definitions	<ul style="list-style-type: none">• Verify adverse events of interest• Create and/or validate complex variable definitions
Publish case reports	<ul style="list-style-type: none">• Identify and characterize new and rare disease cases• Understand provision of routine care• Develop case series/meta-analysis of case reports

Power of Optum

- **Centralized** repository of big data
- **Customizable, client-specified** selection criteria
- **Curated data** by research experts
- **Speed and efficiency** for computerized data query
- **Scalability** of case review

Capabilities

- Review curated profiles in isolation and run analyses across these profiles
- Observe patients over time to characterize disease trajectories
- Access and utilize non-categorical data captured in provider notes and processed through highly specific data algorithms (for example, natural language processing)

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Optum Epidemiology is at the forefront of epidemiologic methodology and practice, designing and conducting research to generate evidence about medical products and population health. Driven by research objectives, Optum scientists use unparalleled data assets to develop real-world understanding of the safety and efficacy of drugs, devices, biologics and health care delivery.



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