

### Refinement in Study Design and Analysis for Health Reform to Address MCCs

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#### Description

The sources of data on MCC affect the accuracy, completeness, uncertainty, and temporality in predictions of outcomes. The study uses two large data sources to assess the effect of data on study designs using advanced processing to improve patient selection and MCC summarization in future trials. The study is developing and validating a gold standard that can be used to compare against different data sources to identify the sources (or mix of sources) of data that are most predictive for health reform evaluation.

#### Specific Aims

1. Assess the effect of selecting those at risk for poor outcomes and adjusting models to predict outcomes in the absence of health reform.
2. Develop new metrics, algorithms, and heuristics to characterize MCC patients so that health reform studies can be better conducted.

#### Main Objective

Develop a gold standard for database measures of MCC, using and linking a variety of different data systems to conduct research studies on health reform.

#### Chronic Conditions Considered

102 conditions, not specified

#### Study Design, Data Sources & Sample Size

Two large data sources, the Integrated Care Coordination Information Systems and All-payer Claims, with 490,000 and 2 million patient records respectively.

#### Strategies Addressed from the HHS Strategic Framework on Multiple Chronic Conditions

- 4.B. Understand the epidemiology of multiple chronic conditions
- 4.C. Increase clinical health research