Population Grouping Methodology

The Canadian Institute for Health Information (CIHI) has developed a population grouping methodology using Canadian data, designed specifically to meet the needs of Canada's health care systems.

Overview of the methodology

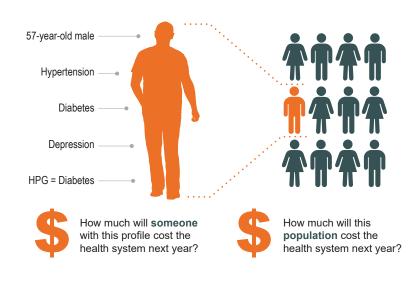
The population grouping methodology builds clinical and demographic profiles for each person in a population, including health system non-users.

- **Clinical profile:** Summarizes all health conditions including longitudinal chronic diseases identified from inpatient, day surgery, emergency department, hospital clinic, continuing care, home care, physician claims and primary care administrative data.
 - Health profile group (HPG): Using the full clinical profile, an individual's most complex and clinically relevant health condition is identified.
- **Demographic profile:** Comprises age and recorded sex/gender information captured in the insured person's data. This data includes information maintained by the provinces/territories on all persons eligible to receive publicly funded health services.

These profiles predict person-level health care needs. "Health care need" is measured using a set of indicators, such as the following:

- **Predicted health care costs:** Includes both current and expected future costs to the health system.
- Predicted use of selected health system resources: Includes number of primary care visits, number of emergency department visits, the probability of entering long-term care and the probability of inpatient hospitalization for pneumonia or acute infectious/parasitic respiratory disease.

Clinical classification and predictive indicators





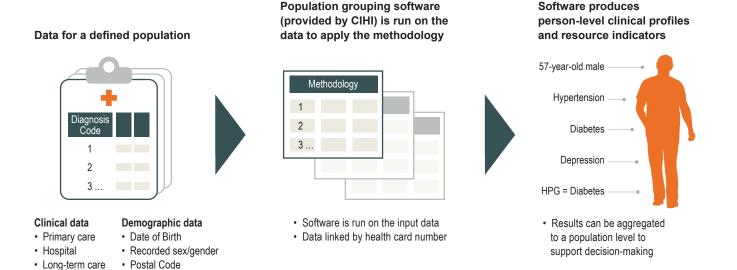


Software and data requirements

Clients who have access to the following data can apply the methodology using CIHI-developed software:

- Clinical data person-level linkable diagnosis and functional status data over a consecutive 2-year period; data from patient-level physician billings and on primary care visits, inpatient stays, day surgeries, emergency department visits, hospital clinic visits, home care and continuing care services
- Demographic data person-level linkable; data about insured persons (i.e., individuals who have a valid health card number)

Software inputs and outputs



Relevance for health care in Canada

CIHI's population grouping methodology will

- Enable health system planners and policy-makers to receive real-time evidence to support decision-making;
- Help CIHI and its clients monitor population health and diseases;
- Predict health care utilization patterns and explain variations in health care resource use;
- · Provide a foundation for funding models; and
- Facilitate standardization of populations for interjurisdictional analysis.

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Home care Physician billing

