Supporting New Funding Approaches using CIHI’s Classification Systems.

Health Data Users Day
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Outline

• CIHI Groupers and CIHI Data
• Case Mix, Cost, Case Costing, Patient Costing …
• Activity Based Funding
• Population Risk Adjustment Grouper Methodology
Case Mix Groupers

• Case Mix Groups (CMG+) for acute care inpatient
  – Quebec data has been grouped using CMG+
• HBAM Inpatient Groups (HIG) for acute care inpatient
  – Used in Ontario Health Based Allocation Model funding model
• Comprehensive Ambulatory Classification System (CACS) for ER, day surgery, and hospital clinics
  – Quebec day surgery data has been grouped using CACS
• Resource Utilization Groups (RUG-III) for continuing care
• Rehabilitation Patient Groups (RPG) for adult inpatient rehabilitation
• System for Classification of Inpatient Psychiatry (SCIPP) for adult inpatient psychiatry
Case Mix, Cost, Case Costing, Patient Costing...

- Case mix groupers’ major role are for assisting in the analysis and comparison of factors impacting changes in length of stay or cost.

- Case Costs, or Patient Costs, are patient-level records of actual cost to provide health care services to a single patient.

- Patient Costs are individual cost records. Patient Costing is a methodology to calculate a patient cost.

- Estimating costs using CMG+ or CACS.
HBAM Work in Case Mix

• Health Based Allocation Model (HBAM)
  – Part of Ontario Health System Funding Reform.
  – Developed HBAM Inpatient Groups (HIG)
  – MOHLTC contracted CIHI to do the work because of our experience in building groupers (CMG+, CACS)
ABF Work in Case Mix

• Activity Based Funding

• Support to jurisdictions
  – B.C.’s Purchasing Agency: use of CIHI data and methodologies (CMG+, CACS, RIW) to fund a portion of hospital budgets
  – Alta. starting with ABF in long-term care homes

• Capacity building

• Improvements to methodology
  – Grouping and weighting methodologies being improved and simplified to support all uses including ABF
  – Experimental Grouper – development of a simplified inpatient grouper that could be also be used for ABF
Simplified Experimental Grouper

- Second option for funding in addition to CMG+
- SAS Methodology
  - Similar to CMG+ and CACS
  - Set of national weights
  - Provinces could use grouper as a basis to derive their own weights
- Project to be completed June 2013
What is a Population Risk Adjustment Grouper? (PRAG)

• A clinical profile of the morbidity of each person in the population
  – Each person is classified into one or more clinical groups
  – Emphasis on chronic conditions (e.g. CHF, diabetes, asthma)
  – Individuals with no “material” conditions are assigned to a “healthy” cell
  – CIHI is also placing emphasis on “frailty”

• Indicators of current and future health system use
  – Next year’s healthcare costs
  – Next year’s number of contacts with the healthcare system
Applications of a PRAG

- PRAGS in use in many jurisdictions across Canada (British Columbia, Alberta, Manitoba, Ontario, Quebec)
  - Clinical administrators
  - Health services researchers
- Useful in population risk adjustment, disease monitoring, funding
- Current methodologies in use in Canada
  - Johns Hopkins Adjusted Clinical Groups (ACGs)
  - 3M Clinical Risk Groups (CRGs)
PRAG Data Needs

• Clinical information across health sectors
  – E.g. hospital, physician fee-for-service, continuing care

• Diagnosis data and drug data for chronic conditions, measures of activities of daily living scores, measure of cognitive scores
  – Limited use of intervention data

• Clinical profile compiled over time a time window (e.g. 2 years) and predictive indicators for the following third year
CIHI PRAG Project Overview

• For several years CIHI clients have encouraged CIHI to offer a PRAG product

• CIHI decision in January 2013 to develop a made-in-Canada PRAG methodology, relevant to the Canadian population and heath care system

• Build on CIHI’s strong history of developing grouping methodologies

• Two year project with two key deliverables
  – PRAG methodology
  – Grouper software available for CIHI and client use

• Project officially kicked off in April 2013
Questions? Comments?