



Workshops for 37th PCSI conference

Québec City, Canada

WORKSHOP 1: 9:30 – 12:30, Tuesday 9 September 2025

TITLE: Introduction to Casemix

FACILITATORS: Deniza Mazevska – Patient Classification Systems International (PCSI)
Kristiina Kahur – Nordic Casemix Centre
Rachel Zhang – Canadian Institute for Health Information
Koffi Kpelitse – Canadian Institute for Health Information
Joanie Gingras – Canadian Institute for Health Information
Marisela Mainegra Hing – Canadian Institute for Health Information
Angeline Wilcox – Canadian Institute for Health Information

WHO WILL BE INTERESTED?

The workshop is introductory and is aimed at a range of audiences including those using casemix in facilities or at regional/provincial government organizations.

WORKSHOP OBJECTIVES:

To provide

- An introduction to casemix including where it comes from and why it matters.
- Introduce how casemix is used in specific settings and across populations of patients.

WORKSHOP OVERVIEW:

1) Introduction to Casemix.

This will be a brief overview with an expectation that most conference participants will have a general understanding of casemix. It will include an overview of history of casemix and set the stage on why casemix matters. Examples of what might be covered include:

- Why casemix matters: How it is used to improve efficiency, equity, and planning.
- Where it came from: A brief look at how casemix has developed, including in Canada.
- Overview of costing and quick interactive activity on when to use casemix and when to use cost data.

2) Casemix across different care/ service streams

This session will be an opportunity to show the breadth of casemix information available. It will help to discuss potential applications of casemix in specific settings and across populations. It will also generate some conversation on how casemix could support bundled payments.

Examples of what might be covered:

- Application of casemix in various settings (e.g. hospital inpatients, population health, long-term care).
- Opportunity to explore casemix products developed at Canadian Institute of Health Information (CIHI), such as CMG+ and the Pop Grouper.

3) Interactive workshop

This will be an opportunity to learn how others, both within and outside of Canada, use casemix, and might help attendees identify additional opportunities within their organizations to incorporate casemix. Examples of what might be covered include:

- A session for sharing experiences across countries and jurisdictions regarding how casemix is currently being used.
- Q&A or small-group discussion identifying common themes or lessons.

WORKSHOP 2: 9:30 – 12:30, Tuesday 9 September 2025

TITLE: How to Analyze Casemix Data to Inform Risk Adjustment and Payment Policies

FACILITATORS: Conrad Kobel – HealthConsult
Jeff Hatcher – Canadian Institute for Health Information

WHO WILL BE INTERESTED?

This workshop is targeted at casemix office and provider technical staff, researchers, and decision-makers working in payment system design, cost modelling, and risk adjustment.

WORKSHOP OBJECTIVES:

- 1) Use of analytic methods in the analysis of casemix data
- 2) Interpretation of analysis results
- 3) Concepts of risk adjustment of funding payments for provider and patient characteristics.
- 4) Analysis of hospital costs and practice patterns and variations, taking into account casemix

WORKSHOP OVERVIEW:

This half-day workshop will introduce analysts to the analysis of casemix data to inform payment system design and risk adjustment accounting for provider and patient characteristics, and to inform understanding and managing of a hospital's variations in care practice patterns. The session will consist of presentations on running and interpretation of analytic methods, complemented by hands-on exercises in small groups of participants.

Participants will work with pre-generated analytic outputs from a mock acute-care minimum dataset (MDS). The focus will be on interpreting these outputs rather than the code used to generate the outputs. Through guided exercises, participants will explore the relationships between hospital and patient features and their correlation with cost and quality-of-care measures.

The analysis results will then be discussed in the context of informing payment policy and setting payment prices, and evaluating and managing hospital practice variations.

WORKSHOP 3: 9:30 – 12:30, Tuesday 9 September 2025

TITLE: ICD-11 Coding to Grouping – Going beyond Morbidity and Mortality to I11 Payment

FACILITATORS: Thilo Koepfer – Health Information Systems, Solventum
Mandy Reid – Health Information Systems, Solventum
Michelle Badore – Health Information Systems, Solventum

WHO WILL BE INTERESTED?

This workshop will be of interest to clinical coders and data analysts, payers and reimbursement specialists, policy makers, clinical costing staff, academia, and other interested parties.

WORKSHOP OBJECTIVES:

- 1) Understand the structure and conventions of ICD-11, including stem codes, extension codes, and post-coordination.
- 2) Apply ICD-11 coding tools and browsers for accurate morbidity and mortality classification.
- 3) Explore the transition from coding for statistics to grouping for casemix and payment purposes.
- 4) Examine how ICD-11 enables greater clinical detail and supports advanced grouping algorithms for reimbursement.
- 5) Discuss the implications of ICD-11 for health system financing and international data comparability.

WORKSHOP OVERVIEW:

This workshop begins with an overview of ICD history (ICD-10 to ICD-11) and provides a comprehensive exploration of ICD-11, focusing on its application from coding and grouping for morbidity and mortality statistics to its emerging role in payment systems. Participants will gain practical skills in using ICD-11 tools available from the World Health Organization, understand the structural and functional advances over ICD-10, and explore how ICD-11 supports more detailed clinical/administrative data, including future payment models. Review use cases that more accurately capture the complexity and severity under ICD-11 to support bundled payments, population health, or quality-based reimbursement.

Agenda:

- 1) Setting the Stage: Why ICD-11
- 2) Understanding the I11 Concepts
- 3) Use Cases: From Coding to Payment
- 4) Benefits and Opportunities
- 5) Challenges and Transition Considerations
- 6) Future Outlook

WORKSHOP 4: 9:30 – 12:30, Tuesday 9 September 2025

TITLE: Modernizing Data and Methods from A to Z in Canada

FACILITATORS: Debra Chen – Canadian Institute for Health Information
Koffi Kpelitse – Canadian Institute for Health Information
Micheline Turneau – Canadian Institute for Health Information
Sharon Baker – Canadian Institute for Health Information
Cassandra Linton – Canadian Institute for Health Information
Pierre Léveillé – Canadian Institute for Health Information
Britta Nielsen – Canadian Institute for Health Information

WHO WILL BE INTERESTED?

The expected audience will be a cross-section of Canadian and international participants. The audience will have the opportunity to learn about a broad range of topics related to the data behind Canada's range of casemix products.

WORKSHOP OBJECTIVES:

Opportunity to learn about innovations in Canada, there will be audience participation and opportunities to share experiences and make new connections.

WORKSHOP OVERVIEW:

Agenda:

- 1) Introduction
- 2) The Canadian Health System, the role of CIHI, the casemix and costing landscape
- 3) Innovations in hospital data flow
CIHI's multi-year Hospital Data Transformation (HDT) initiative which aims to achieve timelier and richer hospital data on a pan-Canadian basis with an overview of key streams of work:
 - A modernized hospital data content standard, under the pan-Canadian Health Data Content Framework, for point-of-care implementation and interoperability advancement.
 - A single, integrated hospital data system that collects timelier data that is fit-for-purpose with flexible data submission options.
 - Accelerated adoption of AI-assisted coding and other automated tools in hospitals that support timely, high-quality data capture and which frees up scarce resources.
 - Exploring what near-time casemix information would be valuable to facilities that could be incorporated into near-time submission of data to CIHI.
- 4) Innovations in classification systems
 - Modernized classification systems, such as enhancements to ICD-10-CA and CCI.
 - The evolution of ICD-11 and its potential impacts on Canada's healthcare system and its implications for casemix methodologies.
- 5) Innovations in case mix
 - Exploring what near-time casemix information would be valuable to facilities that could be incorporated into a modernized near-time data submission
- 6) Costing
 - Engaging stakeholders to create Canada's patient costing roadmap to lay the foundation for expansion and modernization.

WORKSHOP 5: 13:30 – 16:30, Tuesday 9 September 2025

TITLE: Harnessing the power of CIHI's Population Grouping Methodology

FACILITATORS: Debra Chen – Canadian Institute for Health Information
Koffi Kpelitse – Canadian Institute for Health Information
Lyn Sibley – Ontario Medical Association
Bin Xu – Canadian Institute for Health Information
Mani Sotoodeh – Canadian Institute for Health Information

WHO WILL BE INTERESTED?

This session will be particularly relevant to casemix analysts, researchers, academia as well as decision-makers as it relates to

- The uses of casemix data for health care planning at the system level.
- Understanding broader population health needs and resource use.
- Using population-related health information to fund family medicine physicians.

WORKSHOP OBJECTIVES:

In this workshop, participants will learn from various examples how CIHI Grouper outputs can be used for multiple purposes, ranging from population health profiling to funding models. Some of the areas that will be explored include:

- System-level resource utilization by types of health conditions.
- Changes in population health over time and impact on resource utilization.
- Patient complexity and funding models.
- Sources of health inequities.

WORKSHOP OVERVIEW:

This workshop will focus on the multiple applications of the Population Grouping Methodology developed by the Canadian Institute for Health Information (CIHI). The Grouper looks at the population over an extended period across multiple healthcare settings and assigns each person in the population a clinical profile that includes health conditions, Health Profile Group (HPG), cost weights, and predicted future use of select health services.

The workshop will start with a quick overview of the methodology and its new features, followed by extensive discussions on some key applications of the methodology using Canadian data.

Handouts will be provided for each application/example and participants will be divided into smaller groups for analyses and discussions.

WORKSHOP 6: 13:30 – 16:30, Tuesday 9 September 2025

TITLE: System wide integration of value-based healthcare – the Australian experience

FACILITATORS: Sarah Neville, Independent Health and Aged Care Pricing Authority and the Commonwealth Fund
Samuel Webster, Independent Health and Aged Care Pricing Authority

WHO WILL BE INTERESTED?

This workshop is designed with hospital managers, casemix experts, decision-makers, researchers, and academics in mind, as it focuses on how value-based healthcare has been implemented in Australia using nationally reported patient indicators for adverse events in hospitals.

WORKSHOP OBJECTIVES:

- Introduce participants to the principles of value-based health care
- Understand the challenges and limitations when implementing system wide value-based health care initiatives
- Learn the basics of the pricing models which underpin the Australian safety and quality adjustments
- Understand the role of benchmarking in value-based health care
- Experience Australia's National Benchmarking Portal (NBP) live.

WORKSHOP OVERVIEW:

The presenters will give an approachable theoretical introduction to value-based healthcare and discuss implementation strategies and limitations. They will walk through the development and implementation of the adjustments Australia has introduced for funding safety and quality for hospital care – specifically, sentinel events, hospital-acquired complications, and avoidable hospital readmissions. They will then show how these funding adjustments have influenced the occurrence of adverse events in Australian public hospitals. Finally, they will also guide participants through how we developed Australia's first publicly available National Benchmarking Portal (NBP) and give a live demonstration of how it can be used.

Participants will be able to follow along with our demonstration of the NBP and will be involved in discussions regarding implementation challenges and solutions for value-based health care funding initiatives.

WORKSHOP 7: 13:30 – 16:30, Tuesday 9 September 2025

TITLE: Outpatients – Improving Productivity and Value for Patients

FACILITATORS: Mark O'Connor - National Productivity Unit, HSE Ireland, PCSI Executive Committee
Winston Piddington – Health Classification and Funding – UAE

~~Octavian Weiser - Solventum~~

~~Naveen Sharma - Solventum~~

~~Sandeep Wadhwa - Solventum~~

~~Thilo Koepfer - Solventum~~

~~Mark O'Connor - National Productivity Unit, HSE Ireland, PCSI Executive Committee~~

~~Winston Piddington – Health Classification and Funding – UAE~~

WHO WILL BE INTERESTED?

- Staff involved in management, pricing and funding of Outpatient activity.
- Classification of Outpatient services
- Policy makers interested in maximising the productivity of outpatients & improving patient access times.

WORKSHOP OBJECTIVES:

To create and learn from a discussion about.

- How outpatient capacity can be better managed.
- The experiences learned from the Irish sprint project to assess capacity and train hospitals in using the 'Outpatient Clinic Planning Tool.'
- Considerations to include in classifications and pricing.
- The changes needed to achieve better access times for patients.
- The learnings from Abu Dhabi at putting the patient at the centre of healthcare reform.
- The benefits of implementing a full patient-level Outpatient classification system.

WORKSHOP OVERVIEW:

The purpose of the workshop is to look at delivering and measuring outpatient/ambulatory care productivity in a modern healthcare system. The workshop will consider different aspects of this based on three projects from three separate international healthcare systems. The different methodologies have varying levels of implementation complexity and benefit. The workshop will begin by introducing the topic of outpatient or ambulatory care and the key challenges in the area.

While a national database for outpatients in Ireland is currently under development, the workshops will first discuss an Irish project on time and activity measurement, and the challenges to performance management in the outpatient area.

The workshop will next discuss the creation of a simple outpatient classification in the UAE named "ADOC – The Abu Dhabi Outpatient Classification". The workshop will describe its development and progress as well as discuss the challenges of implementing the new reimbursement system whilst ensuring we are keeping the patient at the centre of our healthcare reform.

Following this, the workshop will consider the full capture and coding of the outpatients in various health systems via a software-based system. The advantages of this level of detail for reporting and understanding the data will be outlined via a series of case studies

Overall, this workshop will consider different perspectives in the area of outpatient care by presenting the different methodologies. Additionally, some challenges to be discussed in the workshop will be looking at the future of the cohort of care, managing healthcare outcomes and social prescribing.

WORKSHOP 8: 13:30 – 16:30, Tuesday 9 September 2025

TITLE: Patient Level Costing and Patient-Related Outcome Measures: A Winning Combination for Quantifying the Clinical Impact of Care Pathways.

FACILITATORS: Marc Hyndman, PowerSanté/Telstra Health

WHO WILL BE INTERESTED?

This workshop will be of relevance to all healthcare related professions from clinicians, administrators, clinical coders and informatics professionals, as it will provide an overview of Patient Level Costing, Data Analysis principles, PROMs and Care Trajectories using worked examples, case studies and attendee participation.

WORKSHOP OBJECTIVES:

Following attendance at this workshop, participants will have an understanding of patient costing, outcome measurement and data analysis principles particularly:

- Understand the concept of the General Ledger (GL) Cost Allocation process, including the concept of Overhead and Patient Care Cost Centres, the use of Cost Allocations statistics such as Floor Area, Number of Meals Served, etc., the need to refine the GL for Patient Costing purposes and the methodologies for reconciling each step
- Understand the patient-level data feeds required and their elements
- Understand the concept of Relative Value Units (RVUs) and their application to Patient Costing
- Understand the concepts of loading, processing and reconciling patient-level and general ledger data.
- Understand the uses of Patient Level Costing data and PROM'S
- Understand the methods for analysing the variability and quality of clinical practices from the Patient Level Costing results
- Understand the methods for analysing Patient Level Costing results to improve financial performance
- Understand the methods for using the Patient Level Data to document best practices and to support value-based management of care and services

WORKSHOP OVERVIEW:

Participants will take an active role in defining the GL and Patient Costing methodologies. Participants, in groups, will be asked to review the case studies and identify sub-optimal performance, the potential reasons for it and initiatives that may be used to overcome the problems. Interactive participation will be encouraged using question-and-answer sessions and workgroups.

Handouts will be provided, and the workshop will assume that participants have an awareness of Patient Costing and Data Analysis principles but little understanding of them.

The preliminary agenda for the three (3) hour sessions is documented below.

13:30 – 14:15	Overview of Patient Level Costing
14:15 – 14:30	Patient Outcomes measurement
14:30 – 14:50	Using the Patient Level Data to effectively manage organisations
14:50 – 15:00	Break
15:00 – 16:15	Data Analysis, Care Pathways, Clinical Variances
16:15 – 16:30	Review and questions