# Regrouped Historical Data Dissemination

The ICD-10-CA/CCI–based grouping methodologies for ambulatory care (Comprehensive Ambulatory Classification System [CACS]) and acute inpatient care (Case Mix Group+ [CMG+]), along with the associated Resource Intensity Weight (RIW) and Expected Length of Stay (ELOS) indicators, continue to evolve from year to year. To ensure that historical time series analyses derived from these methodologies are relevant and useful, the Canadian Institute for Health Information (CIHI) is pleased to offer the grouping of 5 years of historical data from the Discharge Abstract Database (DAD) and the National Ambulatory Care Reporting System (NACRS).

**Please note:**

- **There are no changes to the case-mix methodology or associated CIHI weights for the 2024 methodology year.**
- **The CMG+ and CACS directories will no longer be updated annually. You should continue to use the 2022 version of the directories until the next case-mix methodology update.**
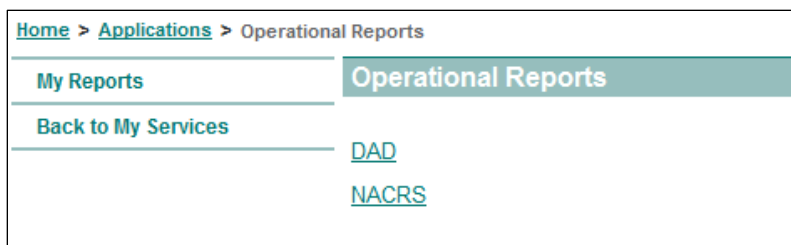
CIHI will disseminate data regrouped to the 2024 methodology for all 5 historical years at no additional charge. 4 closed years of data (2019–2020, 2020–2021, 2021–2022, 2022–2023) will be disseminated by the end of **May 2024**, and the most recently closed year of data (2023–2024) will be disseminated by the end of **July 2024**. The regrouped historical output will be available until March 31, 2025.

**Please note:**

- **It is important that historical regrouped data files be downloaded before March 31, 2025; after that, the data will be available upon request only until mid-May 2025, for a nominal fee of $320 for each institution/facility number and each fiscal year being requested.**

## Data dissemination

Regrouped historical data sets will be provided to hospital clients through Operational Reports via the links **DAD** and/or **NACRS** under My Reports on CIHI's website.

**Bulletin**

By clicking the link **Case Mix Regrouped Historical Data** under DAD and/or NACRS, clients will be able to view the list of files that have been regrouped and download the files to a local computer.



The regrouped historical data files will contain a selected subset of DAD or NACRS data elements. For DAD abstracts, 111 data elements will be provided; for NACRS abstracts, 54 data elements will be provided. Included in the files are the data elements that are key linking variables and grouping methodology output variables (CMG number, major clinical category [MCC] number, RIW, etc.). The files can be linked to abstract data in hospital systems using the key linking variables. The text files are in tab-delimited ASCII format and have been zipped; the layout is outlined below. Please note that the linking variables are marked with an asterisk (*): variables 1 to 5 for DAD and variables 1 to 4 for NACRS.

## DAD CMG+ and CACS file layout

| Field number | Data element |
|---|---|
| 1 | Reporting Institution Number (Province plus Institution Number)* |
| 2 | Fiscal Year* |
| 3 | Fiscal Period* |
| 4 | Batch Number* |
| 5 | Abstract Number* |
| 6 | Institution Type |
| 7 | DAD Transaction ID |
| 8 | Chart Number |

| Field number | Data element |
|---|---|
| 9 | Recorded Sex or Gender |
| 10 | Date of Birth |
| 11 | Register Number |
| 12 | Entry Code |
| 13 | Discharge Date |
| 14 | Discharge Time |
| 15 | Total LOS |
| 16 | Institution To |
| 17 | Institution From |
| 18 | Most Responsible Diagnosis |
| 19 | Principal Intervention |
| 20 | Discharge Disposition |
| 21 | Methodology Year |
| 22 | Methodology Version |
| 23 | MCC |
| 24 | CMG |
| 25 | CMG Return Code |
| 26 | MCC Partition |
| 27 | Comorbidity Level |
| 28 | Comorbidity Total Factor |
| 29 | CMG Age Category |
| 30 | Flagged Intervention Status |
| 31 | Intervention Event Count |
| 32 | Intervention OOH Factor Count |
| 33 | CMG Intervention |
| 34 | CMG Intervention Status |
| 35 | CMG Intervention Location |
| 36 | CMG Intervention Extent |

# Bulletin

| Field number | Data element |
| --- | --- |
| 37 | CMG Intervention Episode |
| 38 | Diagnosis Used for CMG Assignment |
| 39 | RIW |
| 40 | ELOS |
| 41 | RIW Inpatient Atypical Code |
| 42 | Resource Intensity Level |
| 43 | Resource Intensity Total Factor |
| 44 | Trim Days |
| 45 | FI Cardioversion Flag |
| 46 | FI Cell Saver Flag |
| 47 | FI Chemotherapy Flag |
| 48 | FI Dialysis Flag |
| 49 | FI Heart Resuscitation Flag |
| 50 | FI Invasive Ventilation GE 96 Hours Flag |
| 51 | FI Invasive Ventilation LT 96 Hours Flag |
| 52 | FI Feeding Tube Flag |
| 53 | FI Paracentesis Flag |
| 54 | FI Parenteral Nutrition Flag |
| 55 | FI Pleurocentesis Flag |
| 56 | FI Radiotherapy Flag |
| 57 | FI Tracheostomy Flag |
| 58 | FI Vascular Access Device Flag |
| 59 | FI Biopsy Flag |
| 60 | FI Endoscopy Flag |
| 61 | Comorbidity Count |
| 62 | MAC |
| 63 | CACS |
| 64 | CACS RIW |

| Field number | Data element |
| --- | --- |
| 65 | CACS Intervention |
| 66 | CACS Intervention Status |
| 67 | CACS Intervention Location |
| 68 | CACS Intervention Extent |
| 69 | CACS Partition |
| 70 | CACS Age Category |
| 71 | CACS Anaesthetic Code |
| 72 | CACS Investigative Technology Total Count |
| 73 | CACS Investigative Technology Category 1 |
| 74 | CACS Investigative Technology Category 1 Count |
| 75 | CACS Investigative Technology Category 2 |
| 76 | CACS Investigative Technology Category 2 Count |
| 77 | CACS Investigative Technology Category 3 |
| 78 | CACS Investigative Technology Category 3 Count |
| 79 | CACS Investigative Technology Category 4 |
| 80 | CACS Investigative Technology Category 4 Count |
| 81 | CACS Investigative Technology Category 5 |
| 82 | CACS Investigative Technology Category 5 Count |
| 83 | CACS Investigative Technology Category 6 |
| 84 | CACS Investigative Technology Category 6 Count |
| 85 | CACS Investigative Technology Category 7 |
| 86 | CACS Investigative Technology Category 7 Count |
| 87 | CACS Investigative Technology Category 8 |
| 88 | CACS Investigative Technology Category 8 Count |
| 89 | CACS Investigative Technology Category 9 |
| 90 | CACS Investigative Technology Category 9 Count |
| 91 | CACS Investigative Technology Category 10 |
| 92 | CACS Investigative Technology Category 10 Count |

| Field number | Data element |
|---|---|
| 93 | Admission Date |
| 94 | Admission Time |
| 95 | Acute LOS |
| 96 | Main Patient Service |
| 97 | Age Code |
| 98 | Age Units |
| 99 | Medical CMG |
| 100 | FI ECMO Flag |
| 101 | Typical Inpatient RIW |
| 102 | Admit Category |
| 103 | ALC LOS |
| 104 | MR Provider Number |
| 105 | Most Responsible Provider Service |
| 106 | Day Surgery Hours |
| 107 | High-Level CMG |
| 108 | CMG Care Level |
| 109 | CMG Provider Service |
| 110 | CMG Provider Service Group |
| 111 | CMG Transplant Flag |

## NACRS CACS file layout

| Field number | Data element |
|---|---|
| 1 | Reporting Institution Number (Province plus Institution Number)* |
| 2 | Fiscal Year* |
| 3 | Fiscal Period* |
| 4 | Abstract ID Number* |
| 5 | NACRS Transaction ID |

# Bulletin

| Field number | Data element |
|---|---|
| 6 | Chart Number |
| 7 | Recorded Sex or Gender |
| 8 | Date of Registration/Visit |
| 9 | Registration/Visit Time |
| 10 | Main Problem |
| 11 | Main Intervention |
| 12 | Anaesthetic Technique |
| 13 | Visit Disposition |
| 14 | Mode of Visit |
| 15 | Ambulatory Care Type |
| 16 | Program Area |
| 17 | Methodology Year |
| 18 | Methodology Version |
| 19 | MAC |
| 20 | CACS |
| 21 | CACS RIW |
| 22 | CACS Intervention |
| 23 | CACS Intervention Status |
| 24 | CACS Intervention Location |
| 25 | CACS Intervention Extent |
| 26 | CACS Partition |
| 27 | CACS Age Category |
| 28 | CACS Anaesthetic Code |
| 29 | CACS Investigative Technology Total Count |
| 30 | CACS Investigative Technology Category 1 |
| 31 | CACS Investigative Technology Category 1 Count |
| 32 | CACS Investigative Technology Category 2 |
| 33 | CACS Investigative Technology Category 2 Count |
| 34 | CACS Investigative Technology Category 3 |

| Field number | Data element |
|---|---|
| 35 | CACS Investigative Technology Category 3 Count |
| 36 | CACS Investigative Technology Category 4 |
| 37 | CACS Investigative Technology Category 4 Count |
| 38 | CACS Investigative Technology Category 5 |
| 39 | CACS Investigative Technology Category 5 Count |
| 40 | CACS Investigative Technology Category 6 |
| 41 | CACS Investigative Technology Category 6 Count |
| 42 | CACS Investigative Technology Category 7 |
| 43 | CACS Investigative Technology Category 7 Count |
| 44 | CACS Investigative Technology Category 8 |
| 45 | CACS Investigative Technology Category 8 Count |
| 46 | CACS Investigative Technology Category 9 |
| 47 | CACS Investigative Technology Category 9 Count |
| 48 | CACS Investigative Technology Category 10 |
| 49 | CACS Investigative Technology Category 10 Count |
| 50 | LOS Hours |
| 51 | Age Code |
| 52 | Age Num |
| 53 | Submission Level |
| 54 | ED Discharge Diagnosis |

# If you have questions

If you have any questions regarding regrouped data, please contact the Case Mix team through the eQuery tool on our website.

If you require access to these reports, please submit a request for access to the Central Client Services team at help@cihi.ca.