

Visits to the Emergency
Department for Conditions
That Could Be Managed
in Primary Care: In Person
and Virtual

**Methodology Notes** 



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For permission or information, please contact CIHI:

Canadian Institute for Health Information 495 Richmond Road, Suite 600 Ottawa, Ontario K2A 4H6 Phone: 613-241-7860

Fax: 613-241-8120

cihi.ca

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### Introduction

These notes provide methodological details for CIHI's new indicators — Visits to the Emergency Department for Conditions That Could Be Managed in Primary Care and Visits to the Emergency Department for Conditions That Could Be Managed Virtually in Primary Care — to support a better understanding and interpretation of the indicator results. These indicators estimate the percentage of visits to the emergency department (ED) for conditions that potentially could have been managed in the community through an in-person appointment or virtually with a primary health care provider.

Primary care has been defined as "routine care, care for urgent but minor or common health problems, mental health care, maternity and childcare, psychosocial services, liaison with home care, health promotion and disease prevention, nutrition counselling and end-of-life care. It is also an important source of chronic disease prevention and management." In the context of these indicators, primary care providers may include family physicians, nurses or nurse practitioners, and other health care professionals found in the community such as dentists, optometrists, psychologists, other allied health professionals and specialists outside the hospital setting.

Virtual care has been defined as "any interaction between patients and/or members of their circle of care, occurring remotely, using any forms of communication or information technologies, with the aim of facilitating or maximizing the quality and effectiveness of patient care." Virtual care is a relatively new addition to Canada's health care systems, precipitated in part by the COVID-19 pandemic; its role will evolve as technologies improve and as both patients and practitioners determine the right balance of virtual and in-person care. Variation exists across the country in available technologies, as well as in use of and comfort with virtual care. For the virtual care indicator, conditions were included that can be managed with a minimum level of expertise and comfort with virtual care, and with technology that

should be available to most patients and practitioners today. Future iterations of this indicator could focus on a more ideal state that adapts to emerging technologies, best practices, policies and infrastructure to support these advances.

Development of the methodology for these indicators followed CIHI's indicator development cycle. It was informed by a literature review, analyses of available databases and consultations with external stakeholders (e.g., family practice and ED clinicians, policy-makers, academics, various regional and provincial/territorial health system representatives). Details on the data sources, selection criteria and other methodological considerations are described in the following sections. For further information, feedback or questions about the indicator results or definitions, please email <a href="https://example.com/hispace-nature/h

#### Data sources

CIHI's National Ambulatory Care Reporting System (NACRS) is the source of ED data for these indicators. CIHI receives data directly from participating facilities or from regional health authorities or ministries of health. Data collection methods and data standards vary by jurisdiction. There are 3 levels of data submission to NACRS that determine whether data elements are mandatory or optional. Level 3 data is the most comprehensive and contains diagnosis coding based on ICD-10-CA<sup>i</sup> in the Main Problem data element. Diagnosis coding for levels 1 and 2 is based on the Canadian Emergency Department Diagnosis Shortlist (CED-DxS) and is submitted in the ED Discharge Diagnosis data element.

Table 1 shows data coverage by jurisdiction for 2023–2024. Coverage and level of data submission vary across Canada.

i. International Statistical Classification of Diseases and Related Health Problems, 10th Revision, Canada.

Table 1 NACRS data coverage, 2023–2024

Province/territory	2023–2024 coverage	Submission level	Indicators calculated?
P.E.I.	Partial coverage	Level 3	Yes
N.S.	Partial coverage	Level 3*	Yes
Ont.	Complete coverage (>95%)	Level 3	Yes
Sask.	Complete coverage (>95%)	Level 3	Yes
Alta.	Complete coverage (>95%)	Level 3	Yes
Y.T.	Complete coverage (>95%)	Level 3	Yes
Que.	Complete coverage (>95%)	Level 1	Yes
B.C.	Partial coverage	Level 2	Yes
N.L.	No data	n/a	No
N.B.	No data	n/a	No
Man.	Partial coverage	Level 1 <sup>†</sup>	No
N.W.T.	No data	n/a	No
Nun.	No data	n/a	No

#### Notes

<sup>\*</sup> Level 1 data submitted by Nova Scotia does not include diagnosis information and is therefore excluded from the calculation; indicator results are based on Level 3 data submission for Nova Scotia.

<sup>†</sup> Level 1 data submitted by Manitoba does not include diagnosis information and is therefore excluded from the calculation. n/a: Not applicable.

## Selection of condition lists

The development of the primary care sensitive condition (PCSC) list built on previous work by the Health Quality Council of Alberta (HQCA)³ and CIHI⁴ on the development of a list of family practice sensitive conditions (FPSCs) that used ICD-10-CA codes. FPSCs were originally identified by HQCA as conditions that resulted in a rate of hospital admission that was less than 1%, the premise being that conditions with a very low risk of admission are more likely to be manageable in a primary care setting. CIHI adapted this list for 2014⁴ and 2015⁵ publications, excluding 2 mortality-related conditions.

For the development of these indicators, the list was renamed to PCSCs to reflect a more inclusive list of practitioners. 9 mental health conditions were added and 1 was removed; no other changes were made, resulting in 173 conditions in the newly validated PCSC list. A subset of the PCSC list containing 97 selected conditions was also developed as the new virtual PCSC (V-PCSC) list. These lists were validated and developed through the following iterative process:

- A thorough literature review was conducted to better understand the role of virtual care
  in the health care continuum and to identify potential risks and advantages of its use in
  primary care. Additionally, the literature to date on avoidable conditions or PCSCs was
  reviewed to provide insight on factors relevant for case selection.
- 2. Investigative analyses of NACRS ED data including Canadian Triage and Acuity Scale (CTAS) scores and admission rates for PCSCs and V-PCSCs, typical lengths of stay and other measures of resource intensity further informed the inclusion and exclusion criteria for the indicators.
- 3. A cohort of Patient-Level Physician Billing (PLPB) data provided a snapshot of the conditions currently being managed through in-person and/or virtual primary care.
- 4. The draft list of conditions was distributed in survey format to clinicians who work in EDs and primary care across Canada. The survey asked clinicians to comment on whether, in most cases, each condition could be treated in a primary care setting and whether it was potentially amenable to virtual primary care. Further iterative discussions with clinical experts took place to finalize the lists.

To incorporate jurisdictions that submit levels 1 and 2 NACRS ED data, an adapted methodology was developed, which includes mapping ICD-10-CA codes to CED-DxS codes where possible. This involved consultation with CIHI's Classifications experts, who provided recommendations on mapping and how to best manage the nuances of the lists when there was no direct mapping available.

Detailed mapping is available in Appendix A of this document.

## Risk adjustment

To facilitate comparability across jurisdictions, results are adjusted for age and sex. Further details on the risk adjustment methodology can be found in Section 11 of CIHI's <u>General Methodology Notes — Clinical Indicators</u>. The current indicators use the same year of data to calculate the Canadian average. The Canadian average and the risk adjustment coefficients are based on the 6 jurisdictions submitting Level 3 data only. <u>Appendix B</u> in this document provides coefficients for the risk adjustment models.

## Caveats and limitations

#### Data

- CIHI lacks robust pan-Canadian primary care data and therefore has used NACRS ED data as a proxy to help us understand what is happening in the community, as well as in EDs.
- Submission to NACRS is not mandated in all provinces/territories. In jurisdictions where submission is not mandated, there may be partial data coverage.
- Data from Quebec and British Columbia is based on NACRS Level 1 or 2 submission and has the following limitations:
  - The PCSC and V-PCSC lists were developed using the ICD-10-CA diagnosis classification system as the gold standard, but these provinces submit Discharge Diagnosis coded with CED-DxS. An adapted methodology was used that maps from ICD-10-CA to CED-DxS. As such, some PCSC and V-PCSC codes based on CED-DxS may be missing or different from the codes included in the original lists based on ICD-10-CA codes. An analysis on a subset of Ontario data that have both coded shows a sensitivity of 81% and a specificity of 99% for PCSCs.
  - Diagnosis codes are not mandatory; records without a valid diagnosis code are excluded from the indicators, and as such these indicator results may be based on partial data.
  - Results exclude most patients who left the ED without being seen or against medical advice (since they do not have a true diagnosis code). Results from Level 3 provinces/ territories suggest that results for the indicator are higher for patients who leave the ED without being seen.
- Since results from Quebec and British Columbia exclude patients who left without being seen or against medical advice, they are underestimated. Results for these provinces should not be compared with results for other provinces/territories or with the national average, and they are excluded from public reporting.
- Consequently, the Canada average and regression coefficients are calculated excluding data from Quebec and British Columbia.

- Results based on partial data coverage should be interpreted with caution. Note that
  provincial/territorial and regional results are based on place of residence; the partial
  coverage assessment assumes that coverage by place of residence is similar to
  coverage by place of service.
- Risk adjustment for age and sex facilitates comparability across the country but does not
  account for all differences between jurisdictions. Therefore, jurisdictions that submit Level 1
  and Level 2 data may not be comparable with those that submit Level 3 data.

#### Reporting

- The indicators are calculated for 8 provinces/territories across Canada (see <u>Table 1</u>).
   These results are disseminated through CIHI's secure access private reporting tools.
- For public reporting, results are reported at national, provincial/territorial and regional levels.
  - Results for Quebec and British Columbia are not included (see the section above on data limitations).
- Results are suppressed when large numbers of cases are missing. Suppression is applied
  if either
  - Submission coverage to NACRS is <65% for a jurisdiction or</li>
  - >25% of diagnosis data for a jurisdiction is missing.

#### Interpretation

- The intent of these indicators is to provide a system-level view of the magnitude of ED visits that potentially could have been managed through primary care, including virtual care, and to shed light on access to primary care in communities. Health system decision-makers and planners can use these indicators to inform health system improvements to better meet patient needs.
- These indicators are not intended to speak to individual scenarios or the appropriateness
  of a patient's ED visit, influence patient choice, assign blame, penalize patients or deter
  individuals from visiting the ED.
- Indicator results cannot be interpreted to imply that diverting low-acuity patients will solve
  the health system challenges that manifest in EDs, nor is it intended to imply that virtual
  primary care is a replacement for in-person primary care or a stand-alone solution.
- The newly developed V-PCSC list represents the minimum of what could be addressed virtually with the technology and skill sets that most health care providers should have available today to serve most patients most of the time. We expect this list to evolve over time; the indicator methodology will be reviewed and updated regularly.

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- Jurisdictional context may influence indicator interpretability and actionability. Examples
  include differences in the health system infrastructure available to deliver primary care in
  rural versus urban areas, technical infrastructure such as internet access to fully support
  virtual care, and other factors such as socio-economic status of patients and associated
  barriers to access.
- Results shed light on differences across the country and provide an opportunity to learn from others and dig deeper to understand levers for change to improve access to care for Canadians.

## **Appendices**

# Appendix A: Mapping of ICD-10-CA codes to CED-DxS codes for PCSCs and V-PCSCs

The following table contains the list of PCSCs (based on ICD-10-CA codes) and the mapped CED-DxS codes, where available. The final column indicates the subset of PCSCs that may be amenable to virtual primary care (V-PCSCs). Note for CED-DxS codes that map onto more than one ICD-10-CA PCSC code: if the ICD-10-CA code beginning with the same 3 characters is a V-PCSC, then the CED-DxS code is a V-PCSC; otherwise, it is not.

Table A1 ICD-10-CA to CED-DxS mapping

	ICD-10-CA code and description	(рор	CED-DxS code and description (populated where there is valid mapping)		
Code	Description	Code	Description	V-PCSCs	
Certain	Certain infectious and parasitic diseases				
A07	Other protozoal intestinal diseases	-	_	Yes	
A56	Other sexually transmitted chlamydial diseases	A64	Sexually transmitted infection	Yes (for males only)	
A59	Trichomoniasis	A64	Sexually transmitted infection	Yes (for males only)	
A63	Other predominantly sexually transmitted diseases, not elsewhere classified	A630	Genital Warts	Yes (for males only)	
A63	Other predominantly sexually transmitted diseases, not elsewhere classified	A64	Sexually transmitted infection	Yes (for males only)	
A64	Unspecified sexually transmitted disease	A64	Sexually transmitted infection	Yes (for males only)	
A74	Other diseases caused by chlamydiae	A64	Sexually transmitted infection	Yes (for males only)	
B06	Rubella [German measles]	B069	Rubella / German measles	_	
B07	Viral warts	-	_	Yes	
B08	Other viral infections characterized by skin and mucous membrane lesions, not elsewhere classified	B083	5th Disease	Yes	

	ICD-10-CA code and description	(pop	CED-DxS code and description ulated where there is valid mapping)	
Code	Description	Code	Description	V-PCSCs
Certain	infectious and parasitic diseases (conti	nued)	'	'
B08	Other viral infections characterized by skin and mucous membrane lesions, not elsewhere classified	B084	Hand, foot and mouth disease	Yes
B09	Unspecified viral infection characterized by skin and mucous membrane lesions	B09	Exanthema, viral	Yes
B30	Viral conjunctivitis	H109	Conjunctivitis	Yes
B35	Dermatophytosis	_	_	Yes
B36	Other superficial mycoses	_	_	Yes
B37	Candidiasis	B379	Candidiasis	Yes
B65	Schistosomiasis [bilharziasis]	B839	Pinworms / Helminthiasis	_
B80	Enterobiasis	B839	Pinworms / Helminthiasis	Only for ICD-10-CA
B82	Unspecified intestinal parasitism	B839	Pinworms / Helminthiasis	_
B83	Other helminthiases	B839	Pinworms / Helminthiasis	_
B85	Pediculosis and phthiriasis	B852	Lice / Pediculosis	Yes
B86	Scabies	B86	Scabies	Yes
Neopla	sms	1	,	'
C44	Other malignant neoplasms of skin	C449	Neoplasm of skin	_
D04	Carcinoma in situ of skin	C449	Neoplasm of skin	_
D16	Benign neoplasm of bone and articular cartilage	D369	Benign tumor unspecified site	_
D17	Benign lipomatous neoplasm	D369	Benign tumor unspecified site	T _
D22	Melanocytic naevi	D369	Benign tumor unspecified site	_
D23	Other benign neoplasms of skin	D369	Benign tumor unspecified site	_
D24	Benign neoplasm of breast	D369	Benign tumor unspecified site	_
D29	Benign neoplasm of male genital organs	D369	Benign tumor unspecified site	_
D36	Benign neoplasm of other and unspecified sites	D369	Benign tumor unspecified site	_
Endocri	ne, nutritional and metabolic diseases		•	
E07	Other disorders of thyroid	-	_	Yes
E29	Testicular dysfunction	_	_	Yes
E53	Deficiency of other B group vitamins	_	_	Yes
E61	Deficiency of other nutrient elements	1_	1_	Yes
E78	Disorders of lipoprotein metabolism and other lipidaemia	_	_	Yes

I	CD-10-CA code and description	(рорі	CED-DxS code and description ulated where there is valid mapping)	
Code	Description	Code	Description	V-PCSCs
Mental	and behavioural disorders			
F17.3	Mental and behavioural disorders due to use of tobacco, withdrawal state	_	_	Yes
F41.0	Panic disorder	<u> </u>	_	Yes
F41.9	Anxiety disorder, unspecified	F419	Anxiety disorder	Yes
F45.8	Other somatoform disorders	_	_	Yes
F51.4	Sleep terrors	_	_	Yes
F51.9	Nonorganic sleep disorder, unspecified	_	_	Yes
F52.2	Failure of genital response	_	_	Yes
F80.9	Developmental disorder of speech and language, unspecified	_	_	Yes
F95	Tic disorders	_	_	Yes
Diseases	s of the nervous system			
G43	Migraine	G439	Migraine	Yes
G56	Mononeuropathies of upper limb	G560	Carpal tunnel syndrome	_
Diseases	s of the eye and adnexa	•		
H00	Hordeolum and chalazion	_	_	Yes
H01	Other inflammation of eyelid	_	_	Yes
H04	Disorders of lacrimal system	H579	Eye and adnexa disorder	_
H10	Conjunctivitis	H109	Conjunctivitis	Yes
H11	Other disorders of conjunctiva	H113	Conjunctival hemorrhage	_
H11	Other disorders of conjunctiva	H579	Eye and adnexa disorder	_
H15	Disorders of sclera	H579	Eye and adnexa disorder	_
H18	Other disorders of cornea	H189	Corneal disease	_
H43	Disorders of vitreous body	H431	Vitreous hemorrhage	_
H43	Disorders of vitreous body	H439	Vitreous body disorder	_
H57	Other disorders of eye and adnexa	H571	Ocular pain	
H57	Other disorders of eye and adnexa	H579	Eye and adnexa disorder	_
Diseases	s of the ear and mastoid process			
H60	Otitis externa	H609	OE - Otitis externa	Yes
H61	Other disorders of external ear	H612	Wax in ear	Yes
H61	Other disorders of external ear	H939	Ear disorder, other	Only for ICD-10-CA
H65	Nonsuppurative otitis media	H669	OM - Otitis media	_
H66	Suppurative and unspecified otitis media	H669	OM - Otitis media	_
H68	Eustachian salpingitis and obstruction	H939	Ear disorder, other	_

ICD-10-CA code and description         Code         Description         Code         Description         V-PCSCS           Diseases of the ear and mastoid process (contitud)           H69         Other disorders of Eustachian tube         H939         Ear disorder, other         —           H72         Perforation of tympanic membrane         H729         Perforation tympanic membrane         —           H73         Other disorders of middle ear and mastoid         H939         Ear disorder, other         —           H74         Other disorders of middle ear and mastoid         H919         Hearing loss         —           H91         Other disorders of ear, not elsewhere classified         H920         Otalgia         —           H93         Other disorders of ear, not elsewhere classified         H931         Tinnitus         —           Diseases of the circulatory system         Ear disorder, other         —         —           178         Diseases of capillaries         —         —         —           Diseases of the circulatory system         —         —         —           178         Diseases of capillaries         —         —         Yes           J01         Acute nasopharyngitis [common cold]         —         —         Yes <tr< th=""><th></th><th></th><th></th><th>CED-DxS code and description</th><th></th></tr<>				CED-DxS code and description	
Diseases of the ear and mastoid process (continued)  H69  Other disorders of Eustachian tube  H939  Ear disorder, other  —  H72  Perforation of tympanic membrane  H939  Ear disorder, other  —  H73  Other disorders of tympanic membrane  H939  Ear disorder, other  —  H74  Other disorders of middle ear	1	CD-10-CA code and description	·		
H69	Code	Description	Code	Description	V-PCSCs
H72 Perforation of lympanic membrane H729 Perforation tympanic membrane H730 Other disorders of tympanic membrane H839 Ear disorder, other ————————————————————————————————————	Diseases	s of the ear and mastoid process (contin	nued)		
H73 Other disorders of tympanic membrane   H939   Ear disorder, other   —	H69	Other disorders of Eustachian tube	H939	Ear disorder, other	_
H74 Other disorders of middle ear and mastoid H91 Other hearing loss H92 Otalgia and effusion of ear H93 Other disorders of ear, not elsewhere classified Diseases of the circulatory system  Diseases of the respiratory system  J00 Acute nasopharyngitis [common cold] — — — Yes J01 Acute sinusitis J019 Sinusitis, acute Yes J02 Acute pharyngitis J03 Acute upper respiratory infections of multiple and unspecified sites J30 Vasomotor and allergic rhinitis — — Yes J31 Chronic rhinitis, nasopharyngitis J32 Other disorders of nose and nasal sinuses  Diseases of the digestive system  K00 Disorders of tooth development and eruption  K01 Embedded and impacted teeth K02 Dental caries K04 Diseases of pulp and periapical tissues K08 Other disorders of teeth and support structures  H930 Ear disorder, other and incorder and incorder and support structures  H931 Ear disorder, other and incorder and support structures  H932 Ear disorder, other and incorder and support structures  H933 Ear disorder, other and incorder and support structures  H931 Ear disorder, other and incorder and support structures  H932 Ear disorder, other and incorder and support structures  H933 Ear disorder, other and incorder and support structures  H931 Ear disorder, other and incorder and support structures  H932 Ear disorder, other and incorder and support structures  H933 Ear disorder, other and incorder and support structures  H933 Ear disorder, other and incorder and support structures  H933 Ear disorder, other and incorder and incorder and support structures  H934 Ear disorder, other and incorder and incorder and support structures  H935 Ear disorder, other and incorder and incorder and	H72	Perforation of tympanic membrane	H729	Perforation tympanic membrane	_
And mastoid H91 Other hearing loss H919 Hearing loss — H92 Otalgia and effusion of ear H920 Otalgia — H93 Other disorders of ear, not elsewhere classified H93 Other disorders of ear, not elsewhere classified H93 Other disorders of ear, not elsewhere classified H93 Diseases of the circulatory system  I78 Diseases of the respiratory system  I78 Diseases of the respiratory system  J00 Acute nasopharyngitis [common cold] — — Yes J01 Acute sinusitis J019 Sinusitis, acute Yes J02 Acute pharyngitis J029 Pharyngitis, acute Yes J06 Acute upper respiratory infections of multiple and unspecified sites J30 Vasomotor and allergic rhinitis — — Yes J31 Chronic rhinitis, nasopharyngitis — — Yes J32 Chronic sinusitis J329 Sinusitis, chronic Yes J34 Other disorders of nose and nasal sinuses  Diseases of the digestive system  K00 Disorders of tooth development and eruption K01 Embedded and impacted teeth K089 Teeth / Gums disorder — CICD-10-CA K01 Embedded and periodontal diseases K029 Dental caries — — K02 Dental caries K029 Dental caries — — K03 Gingivitis and periodontal diseases K089 Teeth / Gums disorder — — K08 Other disorders of teeth and support structures	H73	Other disorders of tympanic membrane	H939	Ear disorder, other	_
H92 Otalgia and effusion of ear H920 Otalgia ————————————————————————————————————	H74		H939	Ear disorder, other	_
H93 Other disorders of ear, not elsewhere classified H93 Other disorders of ear, not elsewhere classified Diseases of the circulatory system  J06 Acute nasopharyngitis [common cold] — — Yes J07 Acute sinusitis J08 Pharyngitis, acute Yes J08 Acute upper respiratory infections of multiple and unspecified sites J30 Vasomotor and allergic rhinitis — — — Yes J31 Chronic rhinitis, nasopharyngitis J32 Chronic sinusitis J329 Sinusitis, chronic Yes J34 Other disorders of nose and nasal sinuses Diseases of the digestive system  K00 Disorders of tooth development and eruption K01 Embedded and impacted teeth K089 Teeth / Gums disorder — K02 Dental caries K04 Diseases of pulp and periapical tissues K05 Gingivitis and periodontal diseases K089 Teeth / Gums disorder — K089 Chter disorders of teeth and support structures K08 Other disorders of teeth and support structures	H91	Other hearing loss	H919	Hearing loss	_
not elsewhere classified H93 Other disorders of ear, not elsewhere classified Diseases of the circulatory system  178 Diseases of terespiratory system  J00 Acute nasopharyngitis [common cold] — — — Yes J01 Acute sinusitis J019 Sinusitis, acute Yes J02 Acute pharyngitis J029 Pharyngitis, acute Yes J03 Acute usper respiratory infections of multiple and unspecified sites J30 Vasomotor and allergic rhinitis — — — Yes J31 Chronic rhinitis, nasopharyngitis — — Yes J32 Chronic sinusitis J329 Sinusitis, chronic Yes J34 Other disorders of nose and nasal sinuses  Diseases of the digestive system  K00 Disorders of tooth development and eruption  K01 Embedded and impacted teeth K089 Teeth / Gums disorder — Conly for ICD-10-CA K01 Embedded and periapical tissues K047 Dental / Periapical abscess — Constructives  K08 Other disorders of teeth and support structures  K08 Other disorders of teeth and support structures  K08 Other disorders of teeth and support structures  K089 Teeth / Gums disorder — — — — — — — — — — — — — — — — — — —	H92	Otalgia and effusion of ear	H920	Otalgia	_
Diseases of the circulatory system	H93	· · · · · · · · · · · · · · · · · · ·	H931	Tinnitus	_
I78         Diseases of the respiratory system         —         —         —           J00         Acute nasopharyngitis [common cold]         —         —         Yes           J01         Acute sinusitis         J019         Sinusitis, acute         Yes           J02         Acute pharyngitis         J029         Pharyngitis, acute         Yes           J06         Acute upper respiratory infections of multiple and unspecified sites         J069         URTI         Yes           J30         Vasomotor and allergic rhinitis         —         —         Yes           J31         Chronic rhinitis, nasopharyngitis and pharyngitis         —         —         Yes           J32         Chronic sinusitis         J329         Sinusitis, chronic         Yes           J34         Other disorders of nose and nasal sinuses         —         —         Yes           Diseases of the digestive system         K089         Teeth / Gums disorder         Only for ICD-10-CA           K01         Embedded and impacted teeth         K089         Teeth / Gums disorder         —           K02         Dental caries         K029         Dental / Periapical abscess         —           K04         Diseases of pulp and periapical tissues         K047         Dental / Peri	H93	,	H939	Ear disorder, other	_
Diseases of the respiratory system  J00 Acute nasopharyngitis [common cold] — — — — Yes  J01 Acute sinusitis J019 Sinusitis, acute Yes  J02 Acute pharyngitis J029 Pharyngitis, acute Yes  J06 Acute upper respiratory infections of multiple and unspecified sites  J30 Vasomotor and allergic rhinitis — — — Yes  J31 Chronic rhinitis, nasopharyngitis — — — Yes  J32 Chronic sinusitis J329 Sinusitis, chronic Yes  J34 Other disorders of nose and nasal sinuses  Diseases of the digestive system  K00 Disorders of tooth development and eruption K089 Teeth / Gums disorder Only for ICD-10-CA  K01 Embedded and impacted teeth K089 Teeth / Gums disorder — — — — — — — — — — — — — — — — — — —	Diseases	s of the circulatory system			
J00       Acute nasopharyngitis [common cold]       —       —       Yes         J01       Acute sinusitis       J019       Sinusitis, acute       Yes         J02       Acute pharyngitis       J029       Pharyngitis, acute       Yes         J06       Acute upper respiratory infections of multiple and unspecified sites       J069       URTI       Yes         J30       Vasomotor and allergic rhinitis       —       —       Yes         J31       Chronic rhinitis, nasopharyngitis       —       —       Yes         J32       Chronic sinusitis       J329       Sinusitis, chronic       Yes         J34       Other disorders of nose and nasal sinuses       —       —       —       Yes         Diseases of the digestive system       K00       Disorders of tooth development and eruption       K089       Teeth / Gums disorder       Only for ICD-10-CA         K01       Embedded and impacted teeth       K089       Teeth / Gums disorder       —         K02       Dental caries       K047       Dental caries       —         K04       Diseases of pulp and periapical tissues       K047       Dental / Periapical abscess       —         K05       Gingivitis and periodontal diseases       K089       Teeth / Gums disorder       <	178	Diseases of capillaries	_	_	_
Jo1 Acute sinusitis Jo19 Sinusitis, acute Yes  Jo2 Acute pharyngitis Jo29 Pharyngitis, acute Yes  Jo30 Acute upper respiratory infections of multiple and unspecified sites  Jo69 URTI Yes  Jo70 Acute upper respiratory infections of multiple and unspecified sites  Jo70 Vasomotor and allergic rhinitis — — Yes  Jo71 Chronic rhinitis, nasopharyngitis and pharyngitis  Jo72 Chronic sinusitis Jo73 Sinusitis, chronic Yes  Jo73 Other disorders of nose and nasal sinuses  Jo74 Other disorders of nose and nasal sinuses  Diseases of the digestive system  KO0 Disorders of tooth development and eruption KO89 Teeth / Gums disorder Only for ICD-10-CA  KO1 Embedded and impacted teeth KO89 Teeth / Gums disorder —  KO2 Dental caries KO29 Dental caries —  KO4 Diseases of pulp and periapical tissues KO47 Dental / Periapical abscess —  KO5 Gingivitis and periodontal diseases KO89 Teeth / Gums disorder —  KO7 Dentofacial anomalies [malocclusion] KO769 TMJ - Temporomandibular joints —  KO8 Other disorders of teeth and support structures  KO80 Other disorders of teeth and support structures  KO80 Other disorders of teeth and support structures  KO89 Teeth / Gums disorder —  Toothache —  Toothache —  Teeth / Gums disorder —  Toothache —  Toothache —  Teeth / Gums disorder —  Toothache —  T	Diseases	s of the respiratory system			
J02 Acute pharyngitis J029 Pharyngitis, acute Yes J06 Acute upper respiratory infections of multiple and unspecified sites J30 Vasomotor and allergic rhinitis — — Yes J31 Chronic rhinitis, nasopharyngitis and pharyngitis J32 Chronic sinusitis J329 Sinusitis, chronic Yes J34 Other disorders of nose and nasal sinuses  Diseases of the digestive system  K00 Disorders of tooth development and eruption K089 Teeth / Gums disorder Only for ICD-10-CA K01 Embedded and impacted teeth K089 Teeth / Gums disorder — K02 Dental caries K029 Dental caries — K04 Diseases of pulp and periapical tissues K047 Dental / Periapical abscess — K05 Gingivitis and periodontal diseases K089 Teeth / Gums disorder — K07 Dentofacial anomalies [malocclusion] K0769 TMJ - Temporomandibular joints — K08 Other disorders of teeth and support structures K08 Other disorders of teeth and support structures K080 Teeth / Gums disorder — K080 Other disorders of teeth and support structures K080 Teeth / Gums disorder — K080 Other disorders of teeth and support structures K080 Teeth / Gums disorder — K080 Other disorders of teeth and support structures K080 Teeth / Gums disorder — K080 Other disorders of teeth and support structures K080 Teeth / Gums disorder — K080 Other disorders of teeth and support structures	J00	Acute nasopharyngitis [common cold]	_	_	Yes
Job   Acute upper respiratory infections of multiple and unspecified sites   Job   URTI   Yes	J01	Acute sinusitis	J019	Sinusitis, acute	Yes
of multiple and unspecified sites  J30 Vasomotor and allergic rhinitis  ——————————————————————————————————	J02	Acute pharyngitis	J029	Pharyngitis, acute	Yes
J31   Chronic rhinitis, nasopharyngitis and pharyngitis   J32   Chronic sinusitis   J32   Sinusitis, chronic   Yes     J34	J06		J069	URTI	Yes
and pharyngitis  J32 Chronic sinusitis  J329 Sinusitis, chronic  Yes  J34 Other disorders of nose and nasal sinuses  Diseases of the digestive system  K00 Disorders of tooth development and eruption  K01 Embedded and impacted teeth  K02 Dental caries  K02 Dental caries  K04 Diseases of pulp and periapical tissues  K05 Gingivitis and periodontal diseases  K089 Teeth / Gums disorder  —  K05 Gingivitis and periodontal diseases  K089 Teeth / Gums disorder  —  K07 Dentofacial anomalies [malocclusion]  K0769 TMJ - Temporomandibular joints  —  K08 Other disorders of teeth and support structures  K089 Teeth / Gums disorder  —  K080 Other disorders of teeth and support structures  K080 Teeth / Gums disorder  —  K080 Other disorders of teeth and support structures	J30	Vasomotor and allergic rhinitis	_	_	Yes
Diseases of the digestive system  K00 Disorders of tooth development and eruption  K01 Embedded and impacted teeth  K02 Dental caries  K04 Diseases of pulp and periapical tissues  K05 Gingivitis and periodontal diseases  K089 Teeth / Gums disorder  —  K060 Dental caries  —  K07 Dentofacial anomalies [malocclusion]  K080 Teeth / Gums disorder  —  K080 Teeth / Gums disorder  —  K090 Dental caries  —  K091 Dental / Periapical abscess  —  K092 Dental / Periapical abscess  —  K093 Teeth / Gums disorder  —  K094 Diseases of pulp and periapical tissues  K089 Teeth / Gums disorder  —  K095 Cother disorders of teeth and support structures  K0887 Toothache  —  K080 Other disorders of teeth and support structures  K089 Teeth / Gums disorder  —  K080 Teeth / Gums disorder	J31		_	_	Yes
And nasal sinuses  Diseases of the digestive system  K00 Disorders of tooth development and eruption  K01 Embedded and impacted teeth  K02 Dental caries  K02 Dental caries  K04 Diseases of pulp and periapical tissues  K047 Dental / Periapical abscess  K05 Gingivitis and periodontal diseases  K089 Teeth / Gums disorder  —  K07 Dentofacial anomalies [malocclusion]  K080 Other disorders of teeth and support structures  K080 Teeth / Gums disorder  —  K080 Other disorders of teeth and support structures  K089 Teeth / Gums disorder  —  K080 Teeth / Gums disorder  —  Toothache  —  Toothache  —  Teeth / Gums disorder  —  Toothache  —  Toothache  —  Teeth / Gums disorder  —  Toothache  —  Toothache  —  Teeth / Gums disorder  —  Toothache  —  Teeth / Gums disorder  —  Toothache  —  Teeth / Gums disorder	J32	Chronic sinusitis	J329	Sinusitis, chronic	Yes
K00       Disorders of tooth development and eruption       K089       Teeth / Gums disorder       Only for ICD-10-CA         K01       Embedded and impacted teeth       K089       Teeth / Gums disorder       —         K02       Dental caries       K029       Dental caries       —         K04       Diseases of pulp and periapical tissues       K047       Dental / Periapical abscess       —         K05       Gingivitis and periodontal diseases       K089       Teeth / Gums disorder       —         K07       Dentofacial anomalies [malocclusion]       K0769       TMJ - Temporomandibular joints       —         K08       Other disorders of teeth and support structures       K089       Teeth / Gums disorder       —         K08       Other disorders of teeth and support structures       K089       Teeth / Gums disorder       —	J34		_	_	Yes
K01     Embedded and impacted teeth     K089     Teeth / Gums disorder     —       K02     Dental caries     K029     Dental caries     —       K04     Diseases of pulp and periapical tissues     K047     Dental / Periapical abscess     —       K05     Gingivitis and periodontal diseases     K089     Teeth / Gums disorder     —       K07     Dentofacial anomalies [malocclusion]     K0769     TMJ - Temporomandibular joints     —       K08     Other disorders of teeth and support structures     K0887     Toothache     —       K08     Other disorders of teeth and support structures     K089     Teeth / Gums disorder     —	Diseases	s of the digestive system			
K02       Dental caries       K029       Dental caries       —         K04       Diseases of pulp and periapical tissues       K047       Dental / Periapical abscess       —         K05       Gingivitis and periodontal diseases       K089       Teeth / Gums disorder       —         K07       Dentofacial anomalies [malocclusion]       K0769       TMJ - Temporomandibular joints       —         K08       Other disorders of teeth and support structures       K0887       Toothache       —         K08       Other disorders of teeth and support structures       K089       Teeth / Gums disorder       —	K00	-	K089	Teeth / Gums disorder	Only for ICD-10-CA
K04 Diseases of pulp and periapical tissues K047 Dental / Periapical abscess —  K05 Gingivitis and periodontal diseases K089 Teeth / Gums disorder —  K07 Dentofacial anomalies [malocclusion] K0769 TMJ - Temporomandibular joints —  K08 Other disorders of teeth and support structures  K08 Other disorders of teeth and support structures  K089 Teeth / Gums disorder —	K01	Embedded and impacted teeth	K089	Teeth / Gums disorder	_
K05 Gingivitis and periodontal diseases K089 Teeth / Gums disorder —  K07 Dentofacial anomalies [malocclusion] K0769 TMJ - Temporomandibular joints —  K08 Other disorders of teeth and support structures K089 Teeth / Gums disorder —  K08 Other disorders of teeth and support structures	K02	Dental caries	K029	Dental caries	T -
K07 Dentofacial anomalies [malocclusion] K0769 TMJ - Temporomandibular joints —  K08 Other disorders of teeth and support structures  K08 Other disorders of teeth and support structures  K08 Other disorders of teeth and support structures  K089 Teeth / Gums disorder —	K04	Diseases of pulp and periapical tissues	K047	Dental / Periapical abscess	_
K08 Other disorders of teeth and support structures  K08 Other disorders of teeth and support structures  K08 Toothache —  K089 Teeth / Gums disorder —	K05	Gingivitis and periodontal diseases	K089	Teeth / Gums disorder	_
and support structures  K08 Other disorders of teeth and support structures  K089 Teeth / Gums disorder —	K07	Dentofacial anomalies [malocclusion]	K0769	TMJ - Temporomandibular joints	_
and support structures	K08		K0887	Toothache	_
K13 Other diseases of lip and oral mucosa K137 Oral mucosa disorder —	K08		K089	Teeth / Gums disorder	_
	K13	Other diseases of lip and oral mucosa	K137	Oral mucosa disorder	_

1	ICD-10-CA code and description	(pop	CED-DxS code and description ulated where there is valid mapping)	
Code	Description	Code	Description	V-PCSCs
	s of the skin and subcutaneous tissue		•	
L01	Impetigo	L010	Impetigo	Yes
L20	Atopic dermatitis	L309	Dermatitis / Eczema	Yes
L21	Seborrheic dermatitis	L211	Seborrheic infantile dermatitis	Yes
L22	Diaper [napkin] dermatitis	L22	Diaper rash	Yes
L23	Allergic contact dermatitis	L259	Dermatitis, contact	Yes
L24	Irritant contact dermatitis	L259	Dermatitis, contact	Yes
L25	Unspecified contact dermatitis	L259	Dermatitis, contact	Yes
L28	Lichen simplex chronicus and prurigo	_	<u> </u>	Yes
L29	Pruritus	L299	Pruritus	Yes
L30	Other dermatitis	L309	Dermatitis / Eczema	Yes
L42	Pityriasis rosea	L42	Pityriasis rosea	Yes
L43	Lichen planus	_	<u> </u>	Yes
L50	Urticaria	L509	Urticaria	Yes
L55	Sunburn	_	<u> </u>	Yes
L57	Skin changes due to chronic exposure to nonionizing radiation	_	_	Yes
L60	Nail disorders	L600	Ingrown nail	Yes
L60	Nail disorders	L609	Nail disorder	Yes
L63	Alopecia areata	_	_	Yes
L65	Other nonscarring hair loss	_	_	Yes
L70	Acne	_	_	Yes
L71	Rosacea	_	_	Yes
L72	Follicular cysts of skin and subcutaneous tissue	L739	Follicular disorder	Yes
L73	Other follicular disorders	L739	Follicular disorder	Yes
L74	Eccrine sweat disorders	_	1-	Yes
L81	Other disorders of pigmentation	_	_	Yes
L82	Seborrheic keratosis	_	_	Yes
L84	Corns and callosities	L84	Corns and callosities	Yes
L85	Other epidermal thickening	_	_	Yes
L90	Atrophic disorders of skin	_	_	Yes
L91	Hypertrophic disorders of skin	_	<u> </u>	Yes
L92	Granulomatous disorders of skin and subcutaneous tissue	_	_	Yes

	ICD-10-CA code and description		CED-DxS code and description lated where there is valid mapping)	
Code	Description	Code	Description	V-PCSCs
Disease	s of the musculoskeletal system and cor	nnective t	issue	•
M18	Arthrosis of first carpometacarpal joint	_	_	Yes
M20	Acquired deformities of fingers and toes	_	_	_
M22	Disorders of patella	M229	Patellar disorder	_
M53	Other dorsopathies	_	_	_
M67	Other disorders of synovium and tendon	_	_	_
M70	Soft tissue disorders related to use, overuse and pressure	M702	Olecranon bursitis	_
M70	Soft tissue disorders related to use, overuse and pressure	M704	Prepatellar bursitis	_
M70	Soft tissue disorders related to use, overuse and pressure	M706	Trochanteric bursitis	_
M75	Shoulder lesions	M751	Rotator cuff syndrome	-
M75	Shoulder lesions	M752	Bicipital tendinitis	_
M75	Shoulder lesions	M754	Impingement synd shoulder	_
M75	Shoulder lesions	M755	Bursitis of shoulder	_
M75	Shoulder lesions	M759	Shoulder lesion	_
M76	Enthesopathies low limb excluding foot	M765	Patellar tendonitis	_
M76	Enthesopathies low limb excluding foot	M766	Achilles tendonitis	_
M76	Enthesopathies low limb excluding foot	M779	Tendonitis, unspecified	_
M77	Other enthesopathies	M779	Tendonitis, unspecified	_
M85	Other disorders of bone density and structure	_	_	_
M92	Other juvenile osteochondrosis	M9499	Cartilage disease	_
M94	Other disorders of cartilage	M940	Costochondritis	_
M94	Other disorders of cartilage	M9499	Cartilage disease	_
Disease	s of the genitourinary system			
N34	Urethritis and urethral syndrome	N341	Nonspecific urethritis	Yes
N60	Benign mammary dysplasia	N649	Breast disorder	_
N62	Hypertrophy of breast	N649	Breast disorder	_
N63	Unspecified lump in breast	N63	Breast lump	_
N64	Other disorders of breast	N649	Breast disorder	_
N72	Inflammatory disease of cervix uteri	_		
N89	Other noninflammatory disorders of vagina	N899	Noninflammatory vaginal disorder	_
N91	Absent, scanty and rare menstruation	_	_	Yes
N94	Pain and other conditions associated with female genital organs and menstrual cycle	N946	Dysmenorrhea	_
N97	Female infertility	_	_	Yes

	ICD-10-CA code and description	(pop)	CED-DxS code and description ulated where there is valid mapping)	
Code	Description	Code	Description Description	V-PCSCs
	•	Couc	Description	V-1 C5C5
	ncy, childbirth and the puerperium  Other disorders of breast and disorders			
O92	of lactation associated with pregnancy	-	_	_
	and the puerperium			
Cortain	conditions originating in the perinatal p	oriod		
		Jerioa		
P37	Other congenital infectious and parasitic diseases	_	_	_
P78	· ·	P789	Perinatal GI disorder	Yes
P/0	Other perinatal digestive system disorders	P709	Permatai Gi disorder	res
C		<u> </u>	unal alemanna liki an	
	ital malformations, deformations and c	nromoso 	mai abnormalities	
Q10	Congenital malformations of eyelid,	_	-	_
	lacrimal apparatus and orbit			
Q66	Congenital deformities of feet	-	<u>                                     </u>	_
	oms, signs and abnormal clinical and lab	1		1
R05	Cough	R05	Cough	Yes
R21	Rash and other nonspecific	R21	Rash	Yes
	skin eruption			
R30	Pain associated with micturition	R300	Dysuria	Yes
R36	Urethral discharge	R36	Urethral discharge	Yes
R71	Abnormality of red blood cells	_	<u> -</u>	Yes
Factors	influencing health status and contact w	ith healt	h services	
Z00	General examination and investigation	_	_	Yes
	of persons without complaint and			
	reported diagnosis			
Z02	Examination and encounter	Z027	Issue of medical certificate	_
	for administrative purposes			
Z09	Follow-up examination after	Z094	Cast check / Fracture follow up	Yes
	treatment for conditions other			
	than malignant neoplasms			
Z09	Follow-up examination after	Z099	Follow-up exam unspecified Tx	Yes
	treatment for conditions other			
	than malignant neoplasms			
Z11	Special screening examination for	_	_	Yes
	infectious and parasitic diseases			
Z12	Special screening examination	-	_	_
740	for neoplasms			
Z13	Special screening examination	-	_	-
700	for other diseases and disorders	7000		
Z20	Contact with and exposure	Z209	Contact communicable disease	Yes
700	to communicable diseases	7000	<u>                                     </u>	
Z23	Need for immunization against single	Z299	Prophylactic measure	-
	bacterial diseases			

	ICD-10-CA code and description	1	CED-DxS code and description lated where there is valid mapping)	
Code	Description	Code	Description	V-PCSCs
Factors	influencing health status and contact w	ith health	services (continued)	
Z24	Need for immunization against certain viral diseases	Z299	Prophylactic measure	_
Z25	Need for immunization against other viral diseases	Z299	Prophylactic measure	_
Z26	Need for immunization against other infectious diseases	Z299	Prophylactic measure	_
Z27	Need for immunization against combinations of infectious diseases	Z299	Prophylactic measure	_
Z29	Need for other prophylactic measures	Z299	Prophylactic measure	Yes
Z30	Contraceptive management	Z309	Contraceptive management	Yes
Z31	Procreative management	_	_	Yes
Z32	Pregnancy examination and test	_	_	_
Z41	Procedures for purposes other than remedying health state	_	_	_
Z45	Adjustment and management of implanted device	Z459	Adjustment implanted device	_
Z46	Fitting and adjustment of other devices	Z459	Adjustment implanted device	_
Z47	Other orthopaedic follow-up care	_	_	_
Z48	Other surgical follow-up care	Z488	Surgical aftercare evaluation	_
Z51	Other medical care	Z5188	Medical care, other	_
Z53	Persons encountering health services for specific procedures, not carried out	_	_	_
Z56	Problems related to employment and unemployment	_	_	Yes
Z64	Problems related to certain psychosocial circumstances	_	_	Yes
Z70	Counseling related to sexual attitude, behavior and orientation	_	_	Yes
Z76	Persons encountering health services in other circumstances	Z760	Issue of repeat prescription	Yes
Z92	Personal history of medical treatment	<u>                                     </u>		Yes

#### Notes

— Not applicable.

## Appendix B: Regression coefficients

 Table B1
 Regression coefficients for PCSC indicator by year

Risk factor	2022–2023	2023–2024
Intercept	-1.6678	-1.6613
Male (vs. female)	-0.0357	-0.0312
Age 2-9 (vs. 25-44)	0.7190	0.6065
Age 10-17 (vs. 25-44)	0.0792	-0.0086
Age 18–24 (vs. 25–44)	0.0934	0.0439
Age 45-64 (vs. 25-44)	-0.1582	-0.1538
Age 65+ (vs. 25-44)	-0.6000	-0.6109

Table B2 Regression coefficients for V-PCSC indicator by year

Risk factor	2022–2023	2023–2024
Intercept	-2.1554	-2.1542
Male (vs. female)	-0.1283	-0.1252
Age 2-9 (vs. 25-44)	0.7772	0.6406
Age 10-17 (vs. 25-44)	0.2274	0.1373
Age 18-24 (vs. 25-44)	0.2043	0.1287
Age 45-64 (vs. 25-44)	-0.3441	-0.3419
Age 65+ (vs. 25-44)	-0.8943	-0.8803

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**CIHI Ottawa** 

495 Richmond Road Suite 600 Ottawa, Ont. K2A 4H6

613-241-7860

**CIHI Toronto** 

4110 Yonge Street Suite 300 Toronto, Ont. M2P 2B7 416-481-2002

**CIHI Victoria** 

880 Douglas Street Suite 600 Victoria, B.C. V8W 2B7 250-220-4100

**CIHI Montréal** 

1010 Sherbrooke Street West Suite 511 Montréal, Que. H3A 2R7 514-842-2226

cihi.ca









