

## Supplementary Material

### **Changes in paediatric Ambulatory Care Sensitive Conditions in Victoria, 2018–20: the COVID-19 effect?**

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Table 1. Supplementary material

This document outlines the ICD-10 coded for Ambulatory Care Sensitive Conditions as defined by the Australian Institute of Health and Welfare (AIHW). Those codes that are relevant to the data for this paper are denoted by grey shading.

## ACSCs - potentially preventable hospitalisations, 2020 (National Healthcare Agreement: PI 18)

<https://meteor.aihw.gov.au/content/index.phtml/itemId/716530>

### ANGINA:

|        |       |  |   |
|--------|-------|--|---|
| Angina | I20   | Angina pectoris  | As principal diagnosis.<br>Exclude cases according to the list of procedures excluded from the Congestive cardiac failure category above. |
|        | I24.0 | Coronary thrombosis not resulting in myocardial infarction | As principal diagnosis.<br>Exclude cases according to the list of procedures excluded from the Congestive cardiac failure category above. |
|        | I24.8 | Other forms of acute ischaemic heart disease               | As principal diagnosis.<br>Exclude cases according to the list of procedures excluded from the Congestive cardiac failure category above. |
|        | I24.9 | Acute ischaemic heart disease, unspecified                 | As principal diagnosis.<br>Exclude cases according to the list of procedures excluded from the Congestive cardiac failure category above. |

### ASTHMA:

|        |     |                    |   |
|--------|-----|--------------------|---|
| Asthma | J45 | Asthma             | As principal diagnosis.<br>Exclude children aged less than 4 years. |
|        | J46 | Status asthmaticus | As principal diagnosis.<br>Exclude children aged less than 4 years. |

### BRONCHIECTASIS:

|                |     |                  |   |
|----------------|-----|------------------|---|
| Bronchiectasis | J47 | Bronchiectasis   | As principal diagnosis.   |
|                | J20 | Acute bronchitis | As principal diagnosis.<br>Only with additional diagnosis of J47. |

### CELLULITIS

|            |     |   |   |
|------------|-----|---|---|
| Cellulitis | L02 | Cutaneous abscess, furuncle and carbuncle | As principal diagnosis.<br>Exclude cases with any procedure except those in blocks [1820] to [2016], or if procedure is 30216-00[1604], 30216-01[1604], |
|------------|-----|---|---|

|  |       |  |  |
|--|-------|--|--|
|  |       |  | 30216-02[1604], 30676-00[1659], 30223-01[1606], 30223-02[1606], 30064-00[1605], 90660-00[1602], 90661-00[1608], and this is the only listed procedure.   |
|  | L03   | Cellulitis   | As principal diagnosis.<br><br>Exclude cases with any procedure except those in blocks [1820] to [2016], or if procedure is 30216-00[1604], 30216-01[1604], 30216-02[1604], 30676-00[1659], 30223-01[1606], 30223-02[1606], 30064-00[1605], 90660-00[1602], 90661-00[1608], and this is the only listed procedure. |
|  | L04   | Acute lymphadenitis                                    | As principal diagnosis.<br><br>Exclude cases with any procedure except those in blocks [1820] to [2016], or if procedure is 30216-00[1604], 30216-01[1604], 30216-02[1604], 30676-00[1659], 30223-01[1606], 30223-02[1606], 30064-00[1605], 90660-00[1602], 90661-00[1608], and this is the only listed procedure. |
|  | L08   | Other local infections of skin and subcutaneous tissue | As principal diagnosis.<br><br>Exclude cases with any procedure except those in blocks [1820] to [2016], or if procedure is 30216-00[1604], 30216-01[1604], 30216-02[1604], 30676-00[1659], 30223-01[1606], 30223-02[1606], 30064-00[1605], 90660-00[1602], 90661-00[1608], and this is the only listed procedure. |
|  | L88   | Pyoderma gangrenosum                                   | As principal diagnosis.<br><br>Exclude cases with any procedure except those in blocks [1820] to [2016], or if procedure is 30216-00[1604], 30216-01[1604], 30216-02[1604], 30676-00[1659], 30223-01[1606], 30223-02[1606], 30064-00[1605], 90660-00[1602], 90661-00[1608], and this is the only listed procedure. |
|  | L98.0 | Pyogenic granuloma                                     | As principal diagnosis.<br><br>Exclude cases with any procedure except those in blocks [1820] to [2016], or if procedure is 30216-00[1604], 30216-01[1604], 30216-02[1604], 30676-00[1659], 30223-01[1606], 30223-02[1606], 30064-00[1605], 90660-00[1602], 90661-00[1608], and this is the only listed procedure. |
|  | L98.3 | Eosinophilic cellulitis [Wells]                        | As principal diagnosis.<br><br>Exclude cases with any procedure except those in blocks [1820] to [2016], or if procedure is 30216-00[1604], 30216-01[1604], 30216-02[1604], 30676-00[1659], 30223-01[1606], 30223-02[1606], 30064-00[1605], 90660-00[1602], 90661-00[1608], and this is the only listed procedure. |

#### CONGESTIVE CARDIAC FAILURE (CCF)

|                            |     |               |   |
|----------------------------|-----|---------------|---|
| Congestive cardiac failure | 150 | Heart failure | As principal diagnosis.<br><br><b>Exclude cases with the following cardiac procedure codes:</b><br><br>Blocks [600]–[606], [608]–[650], [653]–[657], [660]– |
|----------------------------|-----|---------------|---|

|  |       |  |  |
|--|-------|--|--|
|  |       |  | [664], [666], [669]–[682], [684]–[691], [693], [705]–[707], [717] and codes 33172-00[715], 33827-01[733], 34800-00[726], 35412-00[11], 38721-01[733], 90217-02[734], 90215-02[732].  |
|  | I11.0 | Hypertensive heart disease with (congestive) heart failure | As principal diagnosis.<br><br><b>Exclude cases with the following cardiac procedure codes:</b><br><br>Blocks [600]–[606], [608]–[650], [653]–[657], [660]–[664], [666], [669]–[682], [684]–[691], [693], [705]–[707], [717] and codes 33172-00[715], 33827-01[733], 34800-00[726], 35412-00[11], 38721-01[733], 90217-02[734], 90215-02[732]. |
|  | J81   | Pulmonary oedema   | As principal diagnosis.<br><br><b>Exclude cases with the following cardiac procedure codes:</b><br><br>Blocks [600]–[606], [608]–[650], [653]–[657], [660]–[664], [666], [669]–[682], [684]–[691], [693], [705]–[707], [717] and codes 33172-00[715], 33827-01[733], 34800-00[726], 35412-00[11], 38721-01[733], 90217-02[734], 90215-02[732]. |

#### CONVULSIONS/EPILEPSY

|                          |     |                                       |                         |
|--------------------------|-----|---------------------------------------|-------------------------|
| Convulsions and epilepsy | G40 | Epilepsy                              | As principal diagnosis. |
|                          | G41 | Status epilepticus                    | As principal diagnosis. |
|                          | R56 | Convulsions, not elsewhere classified | As principal diagnosis. |

#### COPD - chronic obstructive pulmonary disease

|      |     |   |  |
|------|-----|---|--|
| COPD | J20 | Acute bronchitis                            | As principal diagnosis.<br><br>Only with additional diagnoses of J41, J42, J43, J44. |
|      | J41 | Simple and mucopurulent chronic bronchitis  | As principal diagnosis.  |
|      | J42 | Unspecified chronic bronchitis              | As principal diagnosis.  |
|      | J43 | Emphysema                                   | As principal diagnosis.  |
|      | J44 | Other chronic obstructive pulmonary disease | As principal diagnosis.  |

#### DENTAL

|                   |     |   |                         |
|-------------------|-----|---|-------------------------|
| Dental conditions | K02 | Dental caries                           | As principal diagnosis. |
|                   | K03 | Other diseases of hard tissues of teeth | As principal diagnosis. |
|                   | K04 | Diseases of pulp and periapical tissues | As principal diagnosis. |
|                   | K05 | Gingivitis and periodontal diseases     | As principal diagnosis. |

|  |       |  |                         |
|--|-------|--|-------------------------|
|  | K06   | Other disorders of gingiva and edentulous alveolar ridge | As principal diagnosis. |
|  | K08   | Other disorders of teeth and supporting structures       | As principal diagnosis. |
|  | K09.8 | Other cysts of oral region, not elsewhere classified     | As principal diagnosis. |
|  | K09.9 | Cyst of oral region, unspecified                         | As principal diagnosis. |
|  | K12   | Stomatitis and related lesions                           | As principal diagnosis. |
|  | K13   | Other diseases of lip and oral mucosa                    | As principal diagnosis. |
|  | K14.0 | Glossitis  | As principal diagnosis. |

#### DIABETES COMPLICATIONS

|                        |             |                                   |                         |
|------------------------|-------------|-----------------------------------|-------------------------|
| Diabetes complications | E10.0–E10.9 | Type 1 diabetes mellitus          | As principal diagnosis. |
|                        | E11.0–E11.9 | Type 2 diabetes mellitus          | As principal diagnosis. |
|                        | E13.0–E13.9 | Other specified diabetes mellitus | As principal diagnosis. |
|                        | E14.0–E14.9 | Unspecified diabetes mellitus     | As principal diagnosis. |

#### ECLAMPSIA FLAG

|           |     |           |                         |
|-----------|-----|-----------|-------------------------|
| Eclampsia | O15 | Eclampsia | As principal diagnosis. |
|-----------|-----|-----------|-------------------------|

#### ENT INFECTIONS

|                                 |       |  |                         |
|---------------------------------|-------|--|-------------------------|
| Ear, nose and throat infections | H66   | Suppurative and unspecified otitis media                             | As principal diagnosis. |
|                                 | J02   | Acute pharyngitis  | As principal diagnosis. |
|                                 | J03   | Acute tonsillitis  | As principal diagnosis. |
|                                 | J06   | Acute upper respiratory infections of multiple and unspecified sites | As principal diagnosis. |
|                                 | J31.2 | Chronic pharyngitis  | As principal diagnosis. |

#### GANGRENE

|          |        |   |                         |
|----------|--------|---|-------------------------|
| Gangrene | R02    | Gangrene, not elsewhere classified                                    | In any diagnosis.       |
|          | I70.24 | Atherosclerosis of arteries of extremities with gangrene              | As principal diagnosis. |
|          | E09.52 | Intermediate hyperglycaemia with peripheral angiopathy, with gangrene | As principal diagnosis. |

#### HYPERTENSION

|              |       |   |  |
|--------------|-------|---|--|
| Hypertension | I10   | Essential (primary) hypertension                      | As principal diagnosis.<br><br>Exclude cases with procedure codes according to the list of procedures excluded from the Congestive cardiac failure category above. |
|              | I11.9 | Hypertensive heart disease without (congestive) heart | As principal diagnosis.  |

|  |  |         |   |
|--|--|---------|---|
|  |  | failure | Exclude cases with procedure codes according to the list of procedures excluded from the Congestive cardiac failure category above. |
|--|--|---------|---|

#### IRON DEFICIENCY:

|                         |       |                                      |                         |
|-------------------------|-------|--------------------------------------|-------------------------|
| Iron deficiency anaemia | D50.1 | Sideropenic dysphagia                | As principal diagnosis. |
|                         | D50.8 | Other iron deficiency anaemias       | As principal diagnosis. |
|                         | D50.9 | Iron deficiency anaemia, unspecified | As principal diagnosis. |

#### NUTRITIONAL DEFICIENCY:

|                          |       |  |                         |
|--------------------------|-------|--|-------------------------|
| Nutritional deficiencies | E40   | Kwashiorkor                                    | As principal diagnosis. |
|                          | E41   | Nutritional marasmus                           | As principal diagnosis. |
|                          | E42   | Marasmic kwashiorkor                           | As principal diagnosis. |
|                          | E43   | Unspecified severe protein-energy malnutrition | As principal diagnosis. |
|                          | E55.0 | Rickets, active                                | As principal diagnosis. |

#### VACCINE PREVENTABLE:

|                                      |       |   |                   |
|--------------------------------------|-------|---|-------------------|
| Other vaccine-preventable conditions | A08.0 | Rotaviral enteritis   | In any diagnosis. |
|                                      | A35   | Other tetanus   | In any diagnosis. |
|                                      | A36   | Diphtheria  | In any diagnosis. |
|                                      | A37   | Whooping cough  | In any diagnosis. |
|                                      | A80   | Acute poliomyelitis   | In any diagnosis. |
|                                      | B01   | Varicella [chicken pox]   | In any diagnosis. |
|                                      | B05   | Measles   | In any diagnosis. |
|                                      | B06   | Rubella [German measles]  | In any diagnosis. |
|                                      | B16.1 | Acute hepatitis B with delta-agent (coinfection) without hepatic coma | In any diagnosis. |
|                                      | B16.9 | Acute hepatitis B without delta-agent and without hepatic coma        | In any diagnosis. |
|                                      | B18.0 | Chronic viral hepatitis B with delta-agent                            | In any diagnosis. |
|                                      | B18.1 | Chronic viral hepatitis B without delta-agent                         | In any diagnosis. |
|                                      | B26   | Mumps   | In any diagnosis. |
|                                      | G00.0 | Haemophilus meningitis  | In any diagnosis. |

## PELVIC INFLAMMATORY DISEASE (PID)

|                             |     |   |                         |
|-----------------------------|-----|---|-------------------------|
| Pelvic inflammatory disease | N70 | Salpingitis and oophoritis  | As principal diagnosis. |
|                             | N73 | Other female pelvic inflammatory diseases                             | As principal diagnosis. |
|                             | N74 | Female pelvic inflammatory disorders in diseases classified elsewhere | As principal diagnosis. |

## PNEUMONIA & PREVENTABLE INFLUENZA

| <b>Vaccine-preventable conditions</b>         |     |   |   |
|---|-----|---|---|
| Pneumonia and influenza (vaccine-preventable) | J10 | Influenza due to other identified influenza virus | In any diagnosis.<br>Exclude people under 2 months. |
|   | J11 | Influenza, virus not identified                   | In any diagnosis.<br>Exclude people under 2 months. |
|   | J13 | Pneumonia due to <i>Streptococcus pneumoniae</i>  | In any diagnosis.<br>Exclude people under 2 months. |
|   | J14 | Pneumonia due to <i>Haemophilus influenzae</i>    | In any diagnosis.<br>Exclude people under 2 months. |

## PNEUMONIA – NOT VACCINE PREVENTABLE

|                                     |       |   |   |
|-------------------------------------|-------|---|---|
| Pneumonia (not vaccine-preventable) | J15.3 | Pneumonia due to streptococcus, group B       | In any diagnosis.<br>Exclude people under 2 months. |
|                                     | J15.4 | Pneumonia due to other streptococci           | In any diagnosis.<br>Exclude people under 2 months. |
|                                     | J15.7 | Pneumonia due to <i>Mycoplasma pneumoniae</i> | In any diagnosis.<br>Exclude people under 2 months. |
|                                     | J16.0 | Chlamydial pneumonia                          | In any diagnosis.<br>Exclude people under 2 months. |

## RHEUMATIC HEART DISEASE

|                          |     |  |                         |
|--------------------------|-----|--|-------------------------|
| Rheumatic heart diseases | I00 | Rheumatic fever without mention of heart involvement | As principal diagnosis. |
|                          | I01 | Rheumatic fever with heart involvement               | As principal diagnosis. |
|                          | I02 | Rheumatic chorea                                     | As principal diagnosis. |
|                          | I05 | Rheumatic mitral valve diseases                      | As principal diagnosis. |
|                          | I06 | Rheumatic aortic valve diseases                      | As principal diagnosis. |
|                          | I07 | Rheumatic tricuspid valve diseases                   | As principal diagnosis. |
|                          | I08 | Multiple valve diseases                              | As principal diagnosis. |
|                          | I09 | Other rheumatic heart diseases                       | As principal diagnosis. |

#### ULCER

|                           |       |  |                         |
|---------------------------|-------|--|-------------------------|
| Perforated/bleeding ulcer | K25.0 | Gastric ulcer, acute with haemorrhage  | As principal diagnosis. |
|                           | K25.1 | Gastric ulcer, acute with perforation  | As principal diagnosis. |
|                           | K25.2 | Gastric ulcer, acute with both haemorrhage and perforation                   | As principal diagnosis. |
|                           | K25.4 | Gastric ulcer, chronic or unspecified with haemorrhage                       | As principal diagnosis. |
|                           | K25.5 | Gastric ulcer, chronic or unspecified with perforation                       | As principal diagnosis. |
|                           | K25.6 | Gastric ulcer, chronic or unspecified with both haemorrhage and perforation  | As principal diagnosis. |
|                           | K26.0 | Duodenal ulcer, acute with haemorrhage                                       | As principal diagnosis. |
|                           | K26.1 | Duodenal ulcer, acute with perforation                                       | As principal diagnosis. |
|                           | K26.2 | Duodenal ulcer, acute with both haemorrhage and perforation                  | As principal diagnosis. |
|                           | K26.4 | Duodenal ulcer, chronic or unspecified with haemorrhage                      | As principal diagnosis. |
|                           | K26.5 | Duodenal ulcer, chronic or unspecified with perforation                      | As principal diagnosis. |
|                           | K26.6 | Duodenal ulcer, chronic or unspecified with both haemorrhage and perforation | As principal diagnosis. |
|                           | K27.0 | Peptic ulcer, site unspecified, acute with haemorrhage                       | As principal diagnosis. |
|                           | K27.1 | Peptic ulcer, site unspecified, acute with perforation                       | As principal diagnosis. |
|                           | K27.2 | Peptic ulcer, site unspecified, acute with both haemorrhage and perforation  | As principal diagnosis. |
|                           | K27.4 | Peptic ulcer, site unspecified, chronic or unspecified with haemorrhage      | As principal diagnosis. |
|                           | K27.5 | Peptic ulcer, site unspecified, chronic or unspecified                       | As principal            |



|  |       |  |                         |
|--|-------|--|-------------------------|
|  |       | with perforation   | diagnosis.              |
|  | K27.6 | Peptic ulcer, site unspecified, chronic or unspecified with both haemorrhage and perforation | As principal diagnosis. |
|  | K28.0 | Gastrojejunal ulcer, acute with haemorrhage  | As principal diagnosis. |
|  | K28.1 | Gastrojejunal ulcer, acute with perforation  | As principal diagnosis. |
|  | K28.2 | Gastrojejunal ulcer, acute with both haemorrhage and perforation                             | As principal diagnosis. |
|  | K28.4 | Gastrojejunal ulcer, chronic or unspecified with haemorrhage                                 | As principal diagnosis. |
|  | K28.5 | Gastrojejunal ulcer, chronic or unspecified with perforation                                 | As principal diagnosis. |
|  | K28.6 | Gastrojejunal ulcer, chronic or unspecified with both haemorrhage and perforation            | As principal diagnosis. |

## UTI

|  |       |  |                         |
|--|-------|--|-------------------------|
| Urinary tract infections, including pyelonephritis | N10   | Acute tubulo-interstitial nephritis                              | As principal diagnosis. |
|  | N11   | Chronic tubulo-interstitial nephritis                            | As principal diagnosis. |
|  | N12   | Tubulo-interstitial nephritis, not specified as acute or chronic | As principal diagnosis. |
|  | N13.6 | Pyonephrosis   | As principal diagnosis. |
|  | N15.1 | Renal and perinephric abscess                                    | As principal diagnosis. |
|  | N15.9 | Renal tubulo-interstitial disease, unspecified                   | As principal diagnosis. |
|  | N28.9 | Disorder of kidney and ureter, unspecified                       | As principal diagnosis. |
|  | N39.0 | Urinary tract infection, site not specified                      | As principal diagnosis. |
|  | N39.9 | Disorder of urinary system, unspecified                          | As principal diagnosis. |