

## Indicator: Medication-related Hospitalisation

| Data sources                                                      | Definition                                                                                                                       | Numerator                                                                                                                                                                                                                                                                              | Denominator                     | Comments | Covariates                             |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------|----------------------------------------|
| SA APC, SA NAEC, NSW APDC, NSW EDDC, VAED, VEMD, QLD EDC, QHAPDC. | Proportion of home care recipients who had an emergency department presentation or hospitalisation for medication-related event. | Number home care recipients who had an emergency department presentation or hospitalisation where a medication-related event was included in any of the diagnoses and not identified as onset during hospitalisation (Table 1) or the external cause type for the encounter (Table 2). | Number of home care recipients. | N/A      | Age, sex, number of health conditions. |

**SA APC:** South Australian Admitted Patient Care. **SA NAEC:** South Australian Non-Admitted Emergency Care. **NSW APDC:** New South Wales Admitted Patient Data Collection. **NSW EDDC:** New South Wales Emergency Department Data Collection. **VAED:** Victorian Admitted Episodes Dataset. **VEMD:** Victorian Emergency Minimum Dataset. **QLD EDC:** Queensland Emergency Department Collection. **QHAPDC:** Queensland Hospital Admitted Patient Data Collection.

**Table 1. Medication-related adverse events, diagnosis descriptions and ICD-10-AM codes.**

| Enterocolitis due to <i>Clostridium difficile</i>                | A04.7* |
|------------------------------------------------------------------|--------|
| Acute paralytic poliomyelitis, vaccine-associated                | A80.0  |
| Drug-induced folate deficiency anaemia                           | D52.1  |
| Drug-induced autoimmune haemolytic anaemia                       | D59.0  |
| Drug-induced non-autoimmune haemolytic anaemia                   | D59.2  |
| Drug-induced aplastic anaemia                                    | D61.1  |
| Secondary sideroblastic anaemia due to drugs and toxins          | D64.2  |
| Haemorrhagic disorder due to circulating anticoagulants          | D68.3  |
| Purpura and other haemorrhagic conditions                        | D69.0  |
| Secondary thrombocytopenia                                       | D69.5  |
| Hypothyroidism due to medicaments and other exogenous substances | E03.2  |
| Drug-induced thyroiditis                                         | E06.4  |
| Nondiabetic hypoglycaemic coma                                   | E15    |
| Drug-induced hypoglycaemia without coma                          | E16.0  |
| Drug-induced hypopituitarism                                     | E23.1  |
| Drug-induced Cushing syndrome                                    | E24.2  |

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| Drug-induced adrenocortical insufficiency                                                          | E27.3  |
| Drug-induced obesity                                                                               | E66.10 |
| Mental and behavioural disorders due to use of opioids                                             | F11*   |
| Mental and behavioural disorders due to use of sedatives or hypnotics                              | F13*   |
| Mental and behavioural disorders due to use of other stimulants, including caffeine                | F15*   |
| Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances | F19*   |
| Abuse of non-dependence-producing substances                                                       | F55*   |
| Malignant neuroleptic syndrome                                                                     | G21.0  |
| Other drug-induced secondary parkinsonism                                                          | G21.1  |
| Secondary parkinsonism due to other external agents                                                | G21.2  |
| Drug-induced dystonia                                                                              | G24.0  |
| Drug-induced tremor                                                                                | G25.1  |
| Drug-induced chorea                                                                                | G25.4  |
| Drug-induced tics and other tics of organic origin                                                 | G25.6  |
| Drug-induced headache, not elsewhere classified                                                    | G44.4  |
| Drug-induced polyneuropathy                                                                        | G62.0  |
| Drug-induced myopathy                                                                              | G72.0  |
| Drug-induced cataract                                                                              | H26.3  |
| Glaucoma secondary to drugs                                                                        | H40.6  |
| Ototoxic hearing loss                                                                              | H91.0  |
| Cardiomyopathy due to drugs and other external agents                                              | I42.7  |
| Hypotension due to drugs                                                                           | I95.2  |
| Acute drug-induced interstitial lung disorders                                                     | J70.2  |
| Chronic drug-induced interstitial lung disorders                                                   | J70.3  |
| Drug-induced interstitial lung disorders                                                           | J70.4  |
| Toxic gastroenteritis and colitis                                                                  | K52.1  |
| Toxic liver disease with cholestasis                                                               | K71.0  |
| Toxic liver disease with hepatic necrosis                                                          | K71.1  |
| Toxic liver disease with acute hepatitis                                                           | K71.2  |
| Toxic liver disease with hepatitis, not elsewhere classified                                       | K71.6  |
| Toxic liver disease, unspecified                                                                   | K71.9  |
| Drug-induced acute pancreatitis                                                                    | K85.3  |
| Drug-induced pemphigus                                                                             | L10.5  |
| Allergic contact dermatitis due to drugs in contact with skin                                      | L23.3  |
| Irritant contact dermatitis due to drugs in contact with skin                                      | L24.4  |
| Unspecified contact dermatitis due to drugs in contact with skin                                   | L25.1  |
| Generalized skin eruption due to drugs and medicaments                                             | L27.0  |
| Localized skin eruption due to drugs and medicaments                                               | L27.1  |
| Dermatitis due to other substances taken internally                                                | L27.8  |
| Dermatitis due to unspecified substance taken internally                                           | L27.9  |
| Lichenoid drug reaction                                                                            | L43.2  |

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| Toxic epidermal necrolysis                                                                                                                | L51.2  |
| Drug phototoxic response                                                                                                                  | L56.0  |
| Drug photoallergic response                                                                                                               | L56.1  |
| Drug-induced androgenic alopecia                                                                                                          | L64.0  |
| Drug-induced gout                                                                                                                         | M10.2* |
| Drug-induced systemic lupus erythematosus                                                                                                 | M32.0  |
| Systemic sclerosis induced by drugs and chemicals                                                                                         | M34.2  |
| Drug-induced osteoporosis with pathological fracture                                                                                      | M80.4* |
| Drug-induced osteoporosis                                                                                                                 | M81.4* |
| Other drug-induced osteomalacia in adults                                                                                                 | M83.5  |
| Osteonecrosis due to drugs                                                                                                                | M87.1  |
| Analgesic nephropathy                                                                                                                     | N14.0  |
| Nephropathy induced by other drugs, medicaments and biological substances                                                                 | N14.1  |
| Nephropathy induced by unspecified drug, medicament or biological substance                                                               | N14.2  |
| Nephropathy induced by heavy metals                                                                                                       | N14.3  |
| Toxic nephropathy, not elsewhere classifieds                                                                                              | N14.4  |
| Drug-induced fever                                                                                                                        | R50.2  |
| Poisoning by systemic antibiotics                                                                                                         | T36*   |
| Poisoning by other systemic anti-infectives and antiparasitics                                                                            | T37*   |
| Poisoning by, adverse effect of and underdosing of glucocorticoids and synthetic analogues                                                | T38*   |
| Poisoning by, adverse effect of and underdosing of nonopioid analgesics, antipyretics and antirheumatics                                  | T39*   |
| Poisoning by, adverse effect of and underdosing of narcotics and psychodysleptics [hallucinogens]                                         | T40*   |
| Poisoning by, adverse effect of and underdosing of anaesthetics and therapeutic gases                                                     | T41*   |
| Poisoning by antiepileptic, sedative-hypnotic and antiparkinsonism drugs                                                                  | T42*   |
| Poisoning by psychotropic drugs, not elsewhere classified                                                                                 | T43*   |
| Poisoning by drugs primarily affecting the autonomic nervous system                                                                       | T44*   |
| Poisoning by, adverse effect of and underdosing of primarily systemic and Haematological agents, not elsewhere classified                 | T45*   |
| Poisoning by, adverse effect of and underdosing of agents primarily affecting the cardiovascular system                                   | T46*   |
| Poisoning by, adverse effect of and underdosing of agents primarily affecting the gastrointestinal system                                 | T47*   |
| Poisoning by, adverse effect of and underdosing of agents primarily acting on smooth and skeletal muscles and the respiratory system      | T48*   |
| Poisoning by topical agents primarily affecting skin and mucous membrane and by ophthalmological, otorhinolaryngological and dental drugs | T49*   |
| Poisoning by diuretics and other and unspecified drugs, medicaments and biological substances                                             | T50*   |
| Anaphylactic shock, unspecified                                                                                                           | T78.2  |
| Angioneurotic oedema                                                                                                                      | T78.3  |
| Allergy, unspecified                                                                                                                      | T78.4  |

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| Other adverse effects, not elsewhere classified                                                | T78.8 |
| Adverse effect, unspecified                                                                    | T78.9 |
| Vascular complications following infusion, transfusion and therapeutic injection               | T80.1 |
| Infections following infusion, transfusion and therapeutic injection                           | T80.2 |
| ABO incompatibility reaction                                                                   | T80.3 |
| Rh incompatibility reaction                                                                    | T80.4 |
| Anaphylactic shock due to serum                                                                | T80.5 |
| Complications following infusion, transfusion and therapeutic injection: other serum reactions | T80.6 |
| Other complications following infusion, transfusion and therapeutic injection                  | T80.8 |
| Unspecified complication following infusion, transfusion and therapeutic injection             | T80.9 |
| Malignant hyperthermia due to anaesthesia                                                      | T88.3 |
| Anaphylactic shock due to adverse effect of correct drug or medicament properly administered   | T88.6 |
| Unspecified adverse effect of drug or medicament                                               | T88.7 |
| Sequelae of poisoning by drugs, medicaments and biological substances                          | T96   |

**ICD-10-AM:** International Classification of Diseases, Tenth Revision, Australian Modification.

**Table 2. Medication-related Adverse Events, External Cause Descriptions and ICD-10-AM Codes.**

| Description                                                                                                                                           | Code    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Accidental poisoning by and exposure to nonopioid analgesics antipyretics and antirheumatics                                                          | X40*    |
| Accidental poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified           | X41*    |
| Accidental poisoning by and exposure to narcotics and psychodysleptics [hallucinogens] not elsewhere classified                                       | X42*    |
| Accidental poisoning by and exposure to other drugs acting on the autonomic nervous system                                                            | X43*    |
| Accidental poisoning by and exposure to other and unspecified drugs, medicaments and biological substances                                            | X44*    |
| Poisoning by and exposure to nonopioid analgesics antipyretics and antirheumatics, undetermined intent                                                | Y10     |
| Poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified, undetermined intent | Y11*    |
| Poisoning by and exposure to narcotics and psychodysleptics [hallucinogens] not elsewhere classified                                                  | Y12*    |
| Poisoning by and exposure to other drugs acting on the autonomic nervous system, undetermined intent                                                  | Y13*    |
| Poisoning by and exposure to other and unspecified drugs, medicaments and biological substances, undetermined intent                                  | Y14*    |
| Drugs, medicaments and biological substances causing adverse effects in therapeutic use                                                               | Y40-Y59 |
| Non-administration of necessary drug, medicament or biological substance                                                                              | Y63.6   |
| Sequelae of adverse effects caused by drugs, medicaments and biological substances in therapeutic use                                                 | Y88.0   |

**ICD-10-AM:** International Classification of Diseases, Tenth Revision, Australian Modification.

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