

## Indicator: Medication-related Hospitalisation

### Indicator Definition

Proportion of residents who had an emergency department presentation or hospitalisation for or with medication-related events

### Indicator Specification

#### Numerator data source

SA APC, SA NAEC, NSW APDC, NSW EDDC, VAED, VAMD, QLD EDC, QHAPDC

#### Numerator

Number of permanent residents who had an emergency department presentation or hospitalisation where a medication-related event is included in any of the diagnoses and that diagnosis was not identified as onset during hospitalisation (Table 1) or where a medication-related event is recorded as the external cause type for the encounter (Table 2)

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

Description	Code
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 hemolytic Anemia	D59.0
Drug-induced non-autoimmune hemolytic Anemia	D59.2
Drug-induced aplastic Anemia	D61.1
Secondary sideroblastic anaemia due to drugs and toxins	D64.2
Hemorrhagic 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 hypoglycemic coma	E15
Drug-induced hypoglycaemia without coma	E16.0
Drug-induced hypopituitarism	E23.1
Drug-induced Cushing syndrome	E24.2
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
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 edema	T78.3
Allergy, unspecified	T78.4
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
<p><b>ICD-10-AM:</b> International Classification of Diseases, Tenth Revision, Australian Modification. <b>SA APC:</b> South Australian Admitted Patient Care; <b>SA NAEC:</b> South Australian Non-Admitted Emergency Care; <b>NSW APDC:</b> New South Wales Admitted Patient Data Collection; <b>NSW EDDC:</b> New South Wales Emergency Department Data Collection; <b>VAED:</b> Victorian Admitted Episodes Dataset; <b>VEMD:</b> Victorian Emergency Minimum Dataset; <b>QLD EDC:</b> Queensland Emergency Department Collection; <b>QHAPDC:</b> Queensland Hospital Admitted Patient Data Collection.</p>	
<b>Table 2. Medication-related adverse events, external cause descriptions and ICD-10-AM codes</b>	
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
<p><b>ICD-10-AM:</b> International Classification of Diseases, Tenth Revision, Australian Modification. <b>SA APC:</b> South Australian Admitted Patient Care; <b>SA NAEC:</b> South Australian Non-Admitted Emergency Care; <b>NSW APDC:</b> New South Wales Admitted Patient Data Collection; <b>NSW EDDC:</b> New South Wales Emergency Department Data Collection; <b>VAED:</b> Victorian Admitted Episodes Dataset; <b>VEMD:</b> Victorian Emergency Minimum Dataset; <b>QLD EDC:</b> Queensland Emergency Department Collection; <b>QHAPDC:</b> Queensland Hospital Admitted Patient Data Collection.</p>	
<b>Denominator</b>	
Number of permanent residents	

### Exclusions

None

### Covariates

Age, sex, number of health conditions, AN-ACC classification (Table 3)

**Table 3. AN-ACC classification**

Data source	Description	Codes
NACDC-AN-ACC	<p>Classification of residents that reflects their characteristics, care needs and determines the associated variable residential care subsidy, which is determined through residential aged care funding assessment using the AN-ACC assessment tool.</p> <p>There are 13 AN-ACC classes for permanent residents, including a class for planned admissions for palliative care.</p>	<p>1 – Class 1 (admit for palliative care)</p> <p>2 – Class 2 (independent without compounding factors)</p> <p>3 – Class 3 (independent with compounding factors)</p> <p>4 – Class 4 (assisted mobility, high cognition without compounding factors)</p> <p>5 – Class 5 (assisted mobility, high cognition with compounding factors)</p> <p>6 – Class 6 (assisted mobility, medium cognition without compounding factors)</p> <p>7 – Class 7 (assisted mobility, high cognition with compounding factors)</p> <p>8 – Class 8 (assisted mobility, low cognition)</p> <p>9 – Class 9 (not mobile, higher function without compounding factors)</p> <p>10 – Class 10 (not mobile, higher function with compounding factors)</p> <p>11 – Class 11 (not mobile, lower function, lower pressure sore risk)</p> <p>12 – Class 12 (not mobile, lower function, higher pressure sore risk without compounding factors)</p> <p>13 – Class 13 (not mobile, lower function, higher pressure sore risk with compounding factors)</p>

**NACDC:** National Aged Care Data Clearinghouse. **AN-ACC:** Australian National Aged Classification.

### Stratifications

None

### Comments

None

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**Any enquires about, or comments on, this Technical Specification document should be directed to:**

Registry of Senior Australians (ROSA) Research Centre  
South Australian Health and Medical Research Institute  
PO Box 11060, Adelaide SA 5001  
Ph: +61 (08) 8128 4662 Email: [ROSA.OMS@sahmri.com](mailto:ROSA.OMS@sahmri.com)  
Website: <https://rosaresearch.org/>