Indicator: Fall-related hospitalisation

Indicator Definition

Proportion of residents who have experienced one or more falls resulting in hospitalisation or emergency department presentation

Indicator Specification

Numerator data source

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

Numerator

Number of permanent residents who had a fall that resulted in emergency department presentation, hospitalisation (where onset is not during the hospitalisation), or death for fall (Table 1)

Table 1. Falls, descriptions and ICD-10-AM codes[1]

Description	Code
Fall on same level from slipping, tripping and stumbling	W01*
Other fall on same level due to collision with another person	W03*
Fall while being carried or supported by other persons	W04*
Fall from non-moving wheelchair, nonmotorized scooter and motorized mobility scooter	W05 *
Fall from bed	W06*
Fall from chair	W07*
Fall from other furniture	W08*
Fall on and from playground equipment	W09*
Fall on and from stairs and steps	W10*
Fall on and from ladder	W11*
Fall on and from scaffolding	W12*
Fall from, out of or through building or structure	W13*
Fall from tree	W14*
Fall from cliff	W15*
Fall, jump or diving into water	W16*
Other fall from one level to another	W17*
Other slipping, tripping and stumbling and falls	W18*
Unspecified fall	W19*
Tendency to fall, not elsewhere classified[2]	R29.6

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; **NDI:** National Death Index. **AN-ACC:** Australian National Aged Care Classification

[1]State specific admitted hospitalisation variables: SA, VIC and QLD (injury event- external cause code), NSW (first listed external cause [i.e. ICD-10-AM codes V01-Y98] within diagnosis array 1). Excluded where onset in hospital. State specific emergency encounters variables: SA, NSW and QLD (diagnosis), VIC (injury cause).

[2]NSW uses a mix of SNOMED, ICD-9-AM and ICD-10-AM coding over the years in emergency department encounters. All codes in emergency department encounters were mapped to ICD-10-AM codes. All codes mapped to the ICD-10-AM codes in this table were considered falls, except for SNOMED code was 129839007 ('at risk of falls') or 430576002 ('at risk of injury due to falls'), which were excluded and therefore not considered a fall.

SNOMED: Systematized Nomenclature of Medicine. **ICD-9-AM:** International Classification of Diseases, Ninth Revision, Australian Modification. **ICD-10-AM:** International Classification of Diseases, Tenth Revision, Australian Modification.

Denominator
Number of permanent residents

Exclusions
None

Covariates
Age, sex, number of health conditions, dementia (Table 2), AN-ACC classification (Table 3)

Table 2. Dementia diagnoses, including ACAP MDSV2.0, NSAF codes[2], ACFI, ATC codes and used ICD-10 AM codes for ascertainment

Data source	Description[1]	Code
	Condition	**ACAP MDSV2.0 and NSAF code**
ACAP, NSAF[1], ACFI[2]	**Dementia in Alzheimer's disease**	**0500**
	Dementia in Alzheimer's disease with early onset (<65 yrs)	0501
	Dementia in Alzheimer's disease with late onset (>65 yrs)	0502
	Dementia in Alzheimer's disease, atypical or mixed type	0503
	Dementia in Alzheimer's disease, unspecified	0504
	Vascular dementia	**0510**
	Vascular dementia of acute onset	0511
	Multi-infarct dementia	0512
	Subcortical vascular dementia	0513
	Mixed cortical & subcortical vascular dementia	0514
	Other vascular dementia	0515
	Vascular dementia – unspecified	0516
	Dementia in other diseases classified elsewhere	**0520**
	Dementia in Pick's disease	0521
	Dementia in Creutzfeldt-Jakob disease	0522
	Dementia in Huntington's disease	0523
	Dementia in Parkinson's disease	0524
	Dementia in human immunodeficiency virus (HIV) disease	0525
	Dementia in other specified diseases classified elsewhere	0526
	Lewy body dementia	0584
	Other dementia	**0530**
	Alcoholic dementia	0531
	Unspecified dementia (includes presenile & senile dementia)	0532
	Delirium superimposed on dementia	0542
Data Source	**Drug name**	**ATC codes**
PBS	Donepezil	N06DA02
	Rivastigmine	N06DA03
	Galantamine	N06DA04
	Memantine	N06DX01
	Risperidone for dementia	N05AX08 AND PBS item codes 08787L, 08788M, 08789N, 08790P, 08791Q, 09293D, 01842Y, 11869Q,

		11872W, 11874Y, 11877D, 11873X, 11879F, 11881H, 11882J
Sources	**Description**	**ICD-10 AM codes**
SA APC, SA NAEC, NSW APDC, NSW EDDC, VAED, VAMD, QLD EDC, QHAPDC	Dementia in Alzheimer's disease	F00*
	Vascular dementia	F01*
	Dementia in other diseases classified elsewhere	F02*
	Unspecified dementia	F03*
	Delirium superimposed on dementia	F05.1
	Alzheimer's disease	G30*
	Lewy body disease	G31.3
	Dementia (including in Alzheimer's disease)	U79.1

[1]All codes are used in the assessment conducted prior to entering residential aged care. [2]In the ACFI assessment prior to 1 October 2022, dementia is only identified using the codes in bold.

ACAP: Aged Care Assessment Program; **NSAF:** National Screening and Assessment Form; **ACFI:** Aged Care Funding Instrument; **PBS:** Pharmaceutical Benefits Scheme. **ICD-10-AM:** International Classification of Diseases, Tenth Revision, Australian Modification. **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 3. AN-ACC classification

Data source	Description	Codes
NACDC-AN-ACC	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. There are 13 AN-ACC classes for permanent residents, including a class for planned admissions for palliative care.	1 – Class 1 (admit for palliative care) 2 – Class 2 (independent without compounding factors) 3 – Class 3 (independent with compounding factors) 4 – Class 4 (assisted mobility, high cognition without compounding factors) 5 – Class 5 (assisted mobility, high cognition with compounding factors) 6 – Class 6 (assisted mobility, medium cognition without compounding factors) 7 – Class 7 (assisted mobility, high cognition with compounding factors) 8 – Class 8 (assisted mobility, low cognition) 9 – Class 9 (not mobile, higher function without compounding factors) 10 – Class 10 (not mobile, higher function with compounding factors) 11 – Class 11 (not mobile, lower function, lower pressure sore risk) 12 – Class 12 (not mobile, lower function, higher pressure sore risk without compounding factors) 13 – Class 13 (not mobile, lower function, higher pressure sore risk with compounding factors)

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

Stratifications
None

Comments
We have attempted to include only falls that individuals had prior to presenting at the hospital- this means including only 'external causes of injury' (without 'condition onset' flag =1) for inpatient admissions, and diagnosis for emergency department presentations (or 'injury cause' for Vic only). See above notes for specific variables from states where this information was extracted from.

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

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