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Indicator: Delirium or Dementia-related Hospitalisation

Indicator Definition

Proportion of residents who had an emergency department presentation or hospitalisation for delirium or dementia

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 dementia or delirium were the principal discharge diagnoses for the encounter (Table 1). (1)

Table 1. Delirium and dementia, descriptions and ICD-10-AM codes

Description	Code
Other symptoms and signs involving cognitive functions and awareness	R41
Disorientation, unspecified	R41.0
Other and unspecified symptoms and signs involving cognitive functions and awareness	R41.8
Alzheimer's disease	G30*
Lewy body disease	G31.3
Dementia in Alzheimer's disease	F00*
Vascular dementia	F01*
Dementia in other diseases classified elsewhere	F02*
Unspecified dementia	F03*
Delirium, not induced by alcohol and other psychoactive substances	F05*

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.

Denominator

Number of permanent residents with dementia (Table 2)

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

	Description[1]	Coding
Data Source	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

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	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
Data Source	**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.

Exclusions
None

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

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. Only Classes 2-13 are included in risk adjustment for indicators where the exclusion criteria involve 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.

Comments
None

Suggested citation: Registry of Senior Australians. Outcome Monitoring System Technical Specification – Delirium or Dementia-related Hospitalisation. Version 3.0. South Australian Health and Medical Research Institute. Adelaide, Australia; December 2025, 4 pages.

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

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References

1. Wilkinson T, Ly A, Schnier C, et al. Identifying dementia cases with routinely collected health data: A systematic review. *Alzheimers Dement.* 2018;14(8):1038-1051.