

## SUPPLEMENTARY MATERIALS

Supplementary Table 1. The ROSA Dementia Cohort Comprehensive Demographic and Clinical Characteristics

		<i>n</i> (%)
		All ( <i>n</i> =373,695)
Age at cohort entry (mean, SD)		84.1 (6.9)
	65-69	11,181 (3.0)
	70-79	78,409 (21.0)
	80-89	202,519 (54.2)
	>89	81,586 (21.8)
Sex		
	Female	235,703 (63.1)
	Male	137,943 (36.9)
	Missing	49 (0.1)
Country of birth		
	Australia	348,396 (66.5)
	Outside Australia	123,009 (32.9)
	Missing	2290 (0.6)
Language		
	English	329,108 (88.1)
	Other	42,779 (11.5)
	Missing	1808 (0.5)
State		
	New South Wales	127,830 (34.2)
	Victoria	92,911 (24.9)
	Queensland	63,986 (17.1)
	Western Australia	35,689 (9.6)
	South Australia	34,252 (9.2)
	Tasmania	9379 (2.5)
	Northern Territory	780 (0.2)
	Australian Capital Territory	4114 (1.10)
	Missing	4754 (1.3)
ARIA Region <sup>a</sup>		
	Major city	245,083 (65.6)
	Inner regional	78,320 (21.0)
	Outer regional	37,378 (10.0)
	Remote	4074 (1.1)
	Very remote	1307 (0.4)
	Missing	7533 (2.0)
Socio-economic status (derived from postcode using IRSD)		
	Most Disadvantaged -1	61,573 (16.5)
	2	63,830 (17.1)
	3	65,613 (17.6)
	4	70,050 (18.8)
	Least Disadvantaged- 5	105,029 (18.8)
	Missing	7600 (2.0)
Marital status		
	Married	133,647 (35.8)
	Separated or divorced	23,727 (6.3)
	Widowed	176,949 (47.4)
	Never married	17,950 (4.8)
	Missing	21,412 (5.7)
Carer availability <sup>b</sup> ( <i>n</i> =214,780)		
	Has carer	185,118 (86.2)
	No carer	14,781 (6.9)
	Missing	14,836 (6.9)

	<i>n</i> (%)
	All ( <i>n</i> =373,695)
Carer relationship <sup>b</sup> ( <i>n</i> =185,118)	
Spouse	80,094 (43.3)
Parent	164 (0.9)
Child or child-in-law	88,105 (47.6)
Other relative	10,075 (5.4)
Friend/neighbour	5967 (3.2)
Missing	676 (0.4)
Carer co-residency <sup>b</sup> ( <i>n</i> =185,118)	117,617 (63.5)
Dementia identified	
Medicine dispensing only	3694 (1.0)
ACAP or medicine dispensing only	62,417 (16.7)
ACFI or medicine dispensing only	161,135 (43.1)
Both ACAP and ACFI	146,449 (39.2)
Dementia first identified using <sup>c</sup>	
ACAP	207,346 (55.5)
ACFI	166,349 (44.5)
Number Medical Conditions (median, IQR) <sup>f</sup>	4 (4-6)
0	11,862 (3.2)
1-4	170,826 (45.7)
5-9	151,358 (40.5)
10+	13,747 (3.7)
Missing	25,875 (6.9)
Activity limitations <sup>b</sup> ( <i>n</i> =214,780)	
None	405 (0.2)
Communication	66,745 (31.1)
Domestic assistance	190,642 (88.8)
Health care tasks	199,163 (92.7)
Home maintenance	161,220 (75.1)
Meals	186,390 (86.8)
Movement activities	60,528 (28.2)
Moving around places	139,482 (64.9)
Self-care	164,446 (76.6)
Transport	203,395 (94.7)
Social and community participation	198,743 (92.5)
Other	12,478 (5.8)
Most common co-morbidities at cohort entry	
Arthritis (rheumatoid and other)	130,824 (35.0)
Hypertension	130,569 (34.9)
Heart diseases	118,274 (31.7)
Falls	58,136 (15.6)
Cerebrovascular disease	57,772 (15.5)
Osteoporosis	54,555 (14.6)
Diabetes – type 2	54,026 (14.5)
Abnormalities of gait and mobility	48,151 (12.9)
Deafness/hearing loss	41,480 (11.1)
Hypercholesterolemia	14,043 (9.1)
Cornell Scale for Depression <sup>g</sup> ( <i>n</i> =122,253) (mean, SD)	11.7 (6.7)
Dead at June 30 2016	249,682 (66.8)
Age at death ( <i>n</i> =249,682) (mean, SD)	87.5 (6.6)
Years from cohort entry to death ( <i>n</i> =249,682) (mean, SD)	2.1 (1.7)
Primary cause of death ( <i>n</i> =249,682)	
Circulatory disease	87,604 (35.1)
Heart disease	54,412 (21.8)
Cerebrovascular disease	30,246 (21.1)

		<i>n</i> (%)
		All ( <i>n</i> =373,695)
Dementias		66,287 (26.5)
	Unspecified dementia	38,019 (15.2)
	Alzheimer's disease	21,090 (8.4)
	Vascular dementia	7178 (2.9)
Respiratory disease (including pneumonia)		19,675 (7.9)
Other causes		76,116 (30.5)

ACAP=Aged Care Assessment Program; ACFI=Aged Care Funding Instrument;  
ARIA=Accessibility/Remoteness Index of Australia; IQR=Interquartile range; IRSD=Index of  
Relative Socio-Economic Disadvantage; SD=Standard deviation

<sup>a</sup> Remoteness categories are from the Accessibility/Remoteness Index of Australia Plus (ARIA+) 2016. These have also been linked to the cohort based on the postcode at the time of the assessment.

<sup>b</sup> From ACAP recordings – includes ACAP data for *n*=7,434 individuals who entered the ROSA dementia cohort from an earlier ACFI assessment.

<sup>c</sup> Or medicine dispensing closest to one of these

<sup>d</sup> From July 2008

<sup>e</sup> To June 2016

<sup>f</sup> From RxRisk, medicine-based comorbidity measure

<sup>g</sup> From ACFI recordings – includes ACFI data (at entry to permanent residential aged care) for some individuals who entered the ROSA dementia cohort from an earlier ACAT assessment