

Supplementary Material

Beyond multimorbidity: primary care and the older person with complex needs

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Table S1. Data collection tools and method of collection for the OPEN ARCH study

Measure	Data source	Description	Collection method
Demographic characteristics	Purpose built data information sheet	Demographic data includes age; Indigenous status; income; living situation; caring situation; and postcode	Participant interview
Functional independence	Functional Independence Measure	Functional performance measured across 18 items that are split into the categories of motor (eating; grooming; bathing; dressing upper body; dressing lower body; toileting; bladder management; bowel management; transfers of bed/chair/wheelchair; transfers of toilet; transfers bath/shower; walk/wheelchair; stairs) and cognition (expression; comprehension; problem solving; social interaction; memory). Participant's usual performance is rated on a scale of 1-7 where 1 = Total assistance with helper, and 7 = Complete independence with no helper. The total FIM score can range from 18 to 126.	Participant interview by accredited FIM assessors
Risk of hospitalisation	Identification of Seniors At Risk - Primary Care (ISAR-PC)	ISAR-PC is a validated screening tool to identify persons at risk of functional decline. It comprises three items (age, dependence in instrumental activities of daily living, and impaired memory). Scores range from 0 to 6 with a score greater or equal to 2 indicating that the participant is at increased risk of functional decline.	Participant interview
Medical conditions	GP referral	All current/active conditions were coded according to the International Classification of Disease (ICD) by the OPEN ARCH geriatrician	Review and coding of GP referral by geriatrician
Quality of life	EQ5D	The EQ-5D is a globally recognised measure of quality of life. The visual analogue scale is used here as a participant self-reported measure of quality of life.	Participant interview
Health and social service utilisation	Purpose build data information sheet	Data was collected on the type of service received and the funder of this service. (The cost of services to the participant was also collected but is not reported or analysed here and will be included in an economic evaluation to be published separately.)	Patient interview

Measure	Data source	Description	Collection method
ED presentations	Casemix	Emergency Department (ED) and hospital admission data was obtained from routinely collected public hospital data. These are count data that include the time and reason (ICD code) for ED presentation and hospital admission on an individual participant and individual episode basis.	Casemix reported provided on request
Hospital discharges	Casemix		

Table S2. Health care and home support utilisation of Older Persons Enablement and Rehabilitation (OPEN ARCH) study participants, by gender and Aboriginal and Torres Strait Islander (Indigenous) status

	Total	Male	Female	Indigenous	Non-Indigenous
Total					
Individuals (n)	80	36	44	12	68
Person days	7101	3166	3935	1046	6055
ED Presentations					
<i>Individuals n(%)</i>	11 (13.8%)	7 (19.4%)	4 (11.7%)	5 (41.7%)	6 (8.8%)
<i>Presentations n</i>	22	13	9	12	10
<i>Rate (per 1,000 person days) (95% CI)</i>	3.10 (1.94- 4.69)	4.11 (2.19-7.02)	2.29 (1.05-4.34)	11.47 (5.93-20.03)	1.65 (0.79-3.04)
Hospitalisations					
<i>Individuals n(%)</i>	12 (15%)	7 (19.4%)	5 (14.7%)	4 (33.3%)	8 (11.7%)
<i>Admissions n</i>	21	7	14	10	11
<i>Rate (per 1,000 person days) (95% CI)</i>	2.96 (1.83-4.52)	2.21 (0.89-4.55)	3.56 (1.95-5.97)	9.56 (4.58-17.57)	1.82 (0.91-3.25)
Allied health services Med. (IQR)					
<i>Any services</i>	35 (43.8%)	15 (41.7%)	20 (45.5%)	6 (50%)	29 (42.7%)
<i>No services</i>	45 (56.3%)	21 (58.3%)	14 (31.8%)	6 (50%)	39 (57.4%)
<i>Physiotherapy</i>	5(6.3%)	3 (8.3%)	2 (4.6%)	0	5 (7.4%)
<i>Occupational therapy</i>	1 (1.3%)	0	1 (2.3%)	0	1 (6.8%)
<i>Speech therapy</i>	0	0	0	0	0
<i>Podiatry</i>	25 (31.3%)	12 (33.3%)	13 (29.6%)	6 (50%)	25 (36.8%)
<i>Nursing</i>	1 (1.3%)	1 (2.8%)	0	0	1 (6.8%)
<i>Exercise group</i>	4 (5%)	1 (2.8%)	3 (6.8%)	0	4(5.9%)
Home services Med. (IQR)					
<i>Any services</i>	49 (61.3%)	20 (55.6%)	29 (65.9%)	7 (58.3%)	42 (61.7%)
<i>No services</i>	31 (38.8%)	16 (44.4%)	15 (34.1)	5 (41.7%)	26 (38.2%)
<i>Domestic</i>	36(45%)	13 (36.1%)	23 (52.3%)	4 (33.3%)	32 (47.1%)
<i>Transport</i>	10 (12.3%)	1 (2.8%)	9 (20.5%)	3 (25%)	7 (10.3%)
<i>Personal Care</i>	3 (3.8%)	2 (5.6%)	1 (2.3%)	0	3 (4.4%)
<i>Gardening</i>	23 (28.8%)	9 (25%)	14 (31.8%)	1 (8.3%)	22 (32.4%)
<i>Meals</i>	4 (5%)	2 (5.6%)	2 (4.6%)	0	4 (5.9%)
<i>Shopping</i>	3 (3.8%)	1 (2.8%)	2 (4.6%)	1 (8.3%)	2 (2.9%)
<i>Respite</i>	3 (3.8%)	1 (2.8%)	2 (4.6%)	0	3 (4.4%)
<i>Other</i>	2(2.5%)	1 (2.8%)	1 (2.3%)	0	2 (2.9%)
Funding source n(%)					
<i>Home Care Package 1</i>	0	0	0	0	0
<i>Home Care Package 2</i>	5 (6.3%)	1 (2.8%)	4 (9.1%)	1 (8.3%)	4(5.9%)
<i>Home Care Package 3</i>	0	0	0	0	0
<i>Home Care Package 4</i>	1(1.25%)	0	0	0	1 (6.8%)
<i>Community Home Support Program</i>	35(43.7%)	15 (41.7%)	20 (45.5%)	4 (33.3%)	29 (42.7%)

<i>Private</i>	11(13.8%)	4 (11.11%)	7 (15.91%)	0	11 (16.18%)
<i>Department of Veteran's Affairs</i>	3(3.8%)	1 (2.8%)	2 (4.6%)	0	3 (4.4%)
<i>Other</i>	5(6.3%)	1 (2.8%)	4 (9.1%)	2 (16.7%)	3 (4.4%)
<i>CDMP</i>	22 (27.5%)	9 (25%)	13 (29.6%)	4 (33.3%)	18 (26.5%)
Conditions					
<i>Number of conditions Med. (IQR)</i>	7 (5-9)	7 (3-9)	7 (6-9)	7(6-8)	7 (5-9)
CDMP=(Chronic Disease Management Plan)					