

Supplementary Methods

Statistical Analyses

Cluster Analysis

Cluster analysis is frequently used to generate typologies for the express purpose of improving the design and delivery of services and interventions (Adlaf & Zdanowicz, 1999) and is particularly applicable if a population has multiple needs or complicated characteristics (Larsson et al., 2017). This technique has been successfully used to examine patterns of participation in an Australian general community sample (Berry, Rodgers & Dear, 2007; Berry, 2008a, 2008b).

To assist in determining an appropriate cut-point in the agglomeration schedule for the number of clusters, the ratio of change in the agglomeration schedule from step to step in the clustering process was calculated, with the number of clusters selected at the point of a large gap in the distance coefficient. The average silhouette measure of cohesion and separation (range from -1 to $+1$) was used to indicate overall goodness of fit. Positive values indicate that the average distance between cases in a cluster is smaller than the average distance to cases in other clusters and are, thus, desirable (Rousseeuw, 1987). A generally accepted criterion is that if the silhouette measure is <0.2 , then the quality of the average silhouette measure across the whole sample is considered poor, between 0.2 and 0.5 indicates a fair solution and >0.5 is a good solution (Mooi & Sarstedt, 2011).

Supplementary References

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- Berry, H. L. (2008b). Social capital elite, excluded participators, busy working parents and aging, participating less: types of community participators and their mental health. *Social Psychiatry and Psychiatric Epidemiology*, 43(7), 527-537. doi:10.1007/s00127-008-0331-3.
- Berry, H. L., Rodgers, B., & Dear, K. B. (2007). Preliminary development and validation of an Australian community participation questionnaire: Types of participation and associations with distress in a coastal community. *Social science & medicine*, 64(8), 1719-1737. doi:10.1016/j.socscimed.2006.12.009.
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- Rousseeuw, P. J. (1987). Silhouettes: A graphical aid to the interpretation and validation of cluster analysis. *Journal of Computational and Applied Mathematics*, 20, 53-65. doi:https://doi.org/10.1016/0377-0427(87)90125-7
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Supplementary Table 1. Factor loadings for three service groupings in community aged care

	Personal Assistive Care	Domestic Assistive Care	Medication and Transport	Social Support	Activity Centre
Activity Centre		-.41	.25	-.31	.56
Domestic Assistance		.55			
Meal Services Preparation	.47				
Medication Assistance			.45		
Nursing Services	.35			.33	.26
Outings					
Personal Care	.80				
Respite Home			.54		
Shopping		.60			
Social Support				.46	
Transport		.38	.57		
Eigenvalues	2.17	1.49	1.31	1.03	1.01
% of variance	18.1	12.4	10.9	8.6	8.4

Note. Factor loadings <.2 are suppressed.

Supplementary Table 2. Agglomeration schedules and ratios of change for a cluster analysis of clients using Schwarz's Bayesian Criterion and Akaike's Information Criterion

Number of clusters	Schwarz's Bayesian Criterion		Akaike's Information Criterion	
	Criterion statistic	Ratio of change	Criterion statistic	Ratio of change
1	8895.680		8861.917	
2	7525.792	1.000	7458.266	1.000
3	7014.297	0.373	6913.008	0.388
4	6564.422	0.328	6429.370	0.345
5	6181.122	0.280	6012.307	0.297
6	5898.705	0.206	5696.127	0.225
7	5621.193	0.203	5384.852	0.222
8	5385.535	0.172	5115.431	0.192
9	5182.589	0.148	4878.722	0.169
10	4996.222	0.136	4658.592	0.157

Note: Line in table indicates cut-off point

Supplementary Figure 1. Australian Community Participation Questionnaire (ACPQ-SF15)

The Australian Community Participation Questionnaire (ACPQ)							
These questions ask how often you see other people or get involved in different activities in your neighbourhood or community. Please tick the number below each statement that is closest to your client's opinion and supply the code on the right column.							
Never, or almost never	Rarely	Occasionally	Sometimes	Quite often	Very often	Always, or almost always	
1	2	3	4	5	6	7	
Contact with immediate household							CODE
I see people in my immediate household at the start of my day							Q1
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
I eat my main meal with people in my immediate household							Q2
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
Contact with extended family							
I see members of my extended family in person							Q3
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
I spend time doing things with people in my extended family							Q4
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
Contact with friends							
I make time to keep in touch with my friends							Q5
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
My friends come over to my place or I go to theirs							Q6
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
Contact with neighbours							
My neighbours tell me their news or I tell them mine							Q7
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
I chat with my neighbours							Q8
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
Religious observance							
I make time to attend services at a place of worship							Q9
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
I go to prayer meetings with others who share my beliefs							Q10
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
Organised community activities							
I take an active part in organised group activities in my community							Q11
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
I am an active member of at least one sporting, hobby or community-based club or association							Q12
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
I attend events that bring people together such as fetes, shows, festivals, or other community events							Q13
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
Active interest in current affairs							
I talk about current affairs with others							Q14
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	
I read articles in the paper about national and international affairs							Q15
<input type="radio"/> Never, or almost never	<input type="radio"/> Rarely	<input type="radio"/> Occasionally	<input type="radio"/> Sometimes	<input type="radio"/> Often	<input type="radio"/> Very often	<input type="radio"/> Always, or almost always	