# **Supplementary Material for**

# Young people in Australian residential aged care: evaluating trends from 2008 to 2018

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#### File S1

### Congruency

Documentation for the National Aged Care Data Clearinghouse database implies (but does not explicitly claim) that PRAC enrolment, admission, and separations data are congruent, such that, for all age groups combined:

Enrolments YEAR X - Enrolments YEAR X - Admissions YEAR X - Separations YEAR X

Table Suppl.1 presents a check of this assumption. It is seen that, in aggregation, there is a very close match between Enrolment CHANGE and Admissions minus Separations. On average, Admissions minus Separations underestimates Enrolment CHANGE by 0.03%. The discrepancy per year ranged from 0 to 13 people (SD = 4.45). On this basis, it seems reasonable to treat the three data sets as congruent. Therefore, for people aged 0-64 as at 30 June each year:

Enrolments  $_{YEAR\ X}$  - Enrolments  $_{YEAR\ X}$  - Admissions  $_{YEAR\ X}$  - Separations  $_{YEAR\ X}$  - Ageing Out  $_{YEAR\ X}$ 

This means that:

Ageing Out  $_{YEAR\ X}$  = Enrolments  $_{YEAR\ X}$  - Enrolments  $_{YEAR\ X}$  + Admissions  $_{YEAR\ X}$  - Separations  $_{YEAR\ X}$ 

Table Suppl.1. Congruence of annual enrolment change and admissions minus separations (PRAC, All Ages, Australia, 2008-2018)

Year ending 30 June	Enrolments	Enrolment CHANGE	Admissions	Separations	Admissions minus Separations	Error
2008	157215		68815	66178	2637	
2009	158858	1643	69171	67529	1642	-1
2010	162578	3720	69363	65643	3720	0
2011	165046	2468	69341	66874	2467	-1
2012	166960	1914	69205	67294	1911	-3
2013	168989	2029	71148	69123	2025	-4
2014	173930	4941	74415	69482	4933	-8
2015	172802	-1128	66768	67907	-1139	-11
2016	175993	3191	72132	68944	3188	-3
2017	178713	2720	73100	70393	2707	-13
2018	180923	2210	71928	69721	2207	-3

### **Transfers between PRAC services**

The analyses assume that for every separation recorded at one service as an 'exit to other residential aged care', there is a PRAC admission recorded at another service. Moreover, it is assumed that that the corresponding admission typically occurs within the same year and state. Although this assumption cannot be directly tested without person-level data, a minimum expectation is that transfers are no greater than admissions within each cross-classification. This was checked for YEAR (11) X AGE (16 x 5-year groups, 0-64 years of age) X STATE (8) cross-classification. This check passed for all but six of the 1408 cross-classifications; Table Suppl.2 presents the failing cases. It is seen that even in these cases, 'exit to other residential aged care' exceeds admissions by no more than 2. It was more common for there to be one or more transfers and an equal number of admissions; this

occurred in 15 cross-classifications. On this basis, it seems reasonable to conclude that transfers typically have a corresponding admission recorded within the same year and state.

Table Suppl.2. Cross-classifications where 'exit to other residential aged care' exceeds admissions

Year ending 30 June	State	Age	Admissions	Exit to other residential aged care
2011	ACT	35-39	0	1
2018	ACT	45-49	0	1
2008	NSW	20-24	0	1
2009	NT	60-64	0	2
2015	Vic	20-24	0	1
2011	Vic	20-24	0	1