

Supplementary materials

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Supplementary Table 1: Breakdown distribution of records in Scottish Care Home Census data

Scottish Care Home Census financial year of data	Total records available	Total indexed to CHI population spine	Total not indexed to CHI population spine	% available records successfully indexed
2010/11	36520	19737	16783	54.0
2011/12	35111	17835	17276	50.8
2012/13	39739	32527	7212	81.9
2013/14	36066	32333	3733	89.6
2014/15	34916	32565	2351	93.3
2015/16	35431	33780	1651	95.3
TOTALS	217793	168777	49016	

Footnotes

CHI: Community Health Index

Supplementary Table 2: Distribution of records across the census years

Years included in Scottish Care Home Census Data	Number of participants	% of cohort
1	27174	42.92
2	16563	26.16
3	10681	16.87
4	8890	14.04

Supplementary Table 3: Dementia code groupings from ICD-9 and ICD-10

Diagnosis grouping	ICD version	Codes used
Alcohol associated dementia	9	2912
	10	F10.6; F11.6; F13.6; F14.6; F15.6; F16.6; F17.6; F18.6; F19.6
Alzheimer's disease	9	3310
	10	F00; F00.0; F00.1; F00.2; F00.9; G30; G30.0; G30.1; G30.8; G30.9
Fronto-temporal dementia	9	3311
	10	F02.2; G31.0; G31.09
Lewy body dementia/Parkinson's disease dementia	9	33182
	10	G31.8; F02.3
Unspecified dementia	9	2900
	10	F03; G31.1
Vascular dementia	9	2904
	10	F01; F01.0; F01.1; F01.2; F01.3; F01.8; F01.9; I67.3
Other dementias		
Creutzfeldt-Jakob Disease (CJD)	9	0461
	10	A81.0; F02.1
Huntington's disease dementia	9	3334
	10	F02.2
HIV-associated dementia	10	F02.4
Other dementias	9	2901; 2902; 2903; 2908; 2909; 29011; 2940; 2941; 3312; 3319
	10	F02.8; F04; F05.1; F07.2

Supplementary Table 4: Care home level information (N= 1231 care home services)

Variable	Count (% of total number of homes)
Care home subtype	
Learning Disabilities	180 (14.62%)
Mental Health Problems	63 (5.12%)
Older People	922 (74.9%)
Other*	18 (1.46%)
Physical Disabilities	33 (2.68%)
Missing	15 (1.22%)
Healthboard	
Ayrshire & Arran	80 (6.5%)
Borders	34 (2.76%)
Dumfries & Galloway	42 (3.41%)
Fife	88 (7.15%)
Forth Valley	73 (5.93%)
Grampian	174 (14.13%)
Greater Glasgow & Clyde	242 (19.66%)
Highland	99 (8.04%)
Lanarkshire	100 (8.12%)
Lothian	159 (12.92%)
Orkney & Shetland**	15 (1.22%)
Tayside	114 (9.26%)
Western Isles	11 (0.89%)
Local Authority	
Aberdeen City	77 (6.26%)
Aberdeenshire	79 (6.42%)
Angus	35 (2.84%)
Argyll & Bute	22 (1.79%)
Clackmannanshire	12 (0.97%)
Dumfries & Galloway	42 (3.41%)
Dundee City	31 (2.52%)
East Ayrshire	25 (2.03%)
East Dunbartonshire	16 (1.3%)
East Lothian	19 (1.54%)
East Renfrewshire	15 (1.22%)
Edinburgh City of	87 (7.07%)
Eilean Siar	11 (0.89%)
Falkirk	34 (2.76%)
Fife	88 (7.15%)
Glasgow City	137 (11.13%)
Highland	77 (6.26%)
Inverclyde	28 (2.27%)
Midlothian	19 (1.54%)
Moray	19 (1.54%)
North Ayrshire	27 (2.19%)
North Lanarkshire	38 (3.09%)
Orkney Islands and Shetland**	15 (1.22%)

Perth & Kinross	48 (3.9%)
Renfrewshire	31 (2.52%)
Scottish Borders	34 (2.76%)
South Ayrshire	28 (2.27%)
South Lanarkshire	65 (5.28%)
Stirling	27 (2.19%)
West Dunbartonshire	13 (1.06%)
West Lothian	34 (2.76%)
Area-based deprivation (SIMD quintile)	
1 – most deprived	221 (17.95%)
2	269 (21.85%)
3***	275 (22.34%)
4	302 (24.53%)
5 – least deprived	164 (13.32%)
Urban-Rural classification (8-fold)	
1 - large urban areas	385 (31.28%)
2 - other urban areas	414 (33.63%)
3 - accessible small towns	111 (9.02%)
4 - remote small towns	49 (3.98%)
5 - very remote small towns	30 (2.44%)
6 - accessible rural areas	142 (11.54%)
7 - remote rural areas	47 (3.82%)
8 - very remote rural areas	44 (3.57%)
Missing	9 (0.73%)

Footnotes

* Alcohol and Drug Misuse combined with Other for statistical disclosure control

** Healthboard and Local Authority areas combined for statistical disclosure control

*** Includes <5 cases where SIMD rank was not available in either 2012 or 2016 data

Supplementary Table 5: Comparing Scottish Care Home Census (care home) dementia with other datasets

SCHC dementia record	SMR01 dementia record	SMR04 dementia record	Dementia medicine prescription	Death with dementia (underlying)	Death with dementia (other)
Medically diagnosed	9938	2006	11199	15476	7679
Not medically diagnosed	978	121	947	1558	924
Combined dementia status	10916	2127	12146	17034	8603
Not diagnosed	3004	623	2123	3660	2528

Footnotes

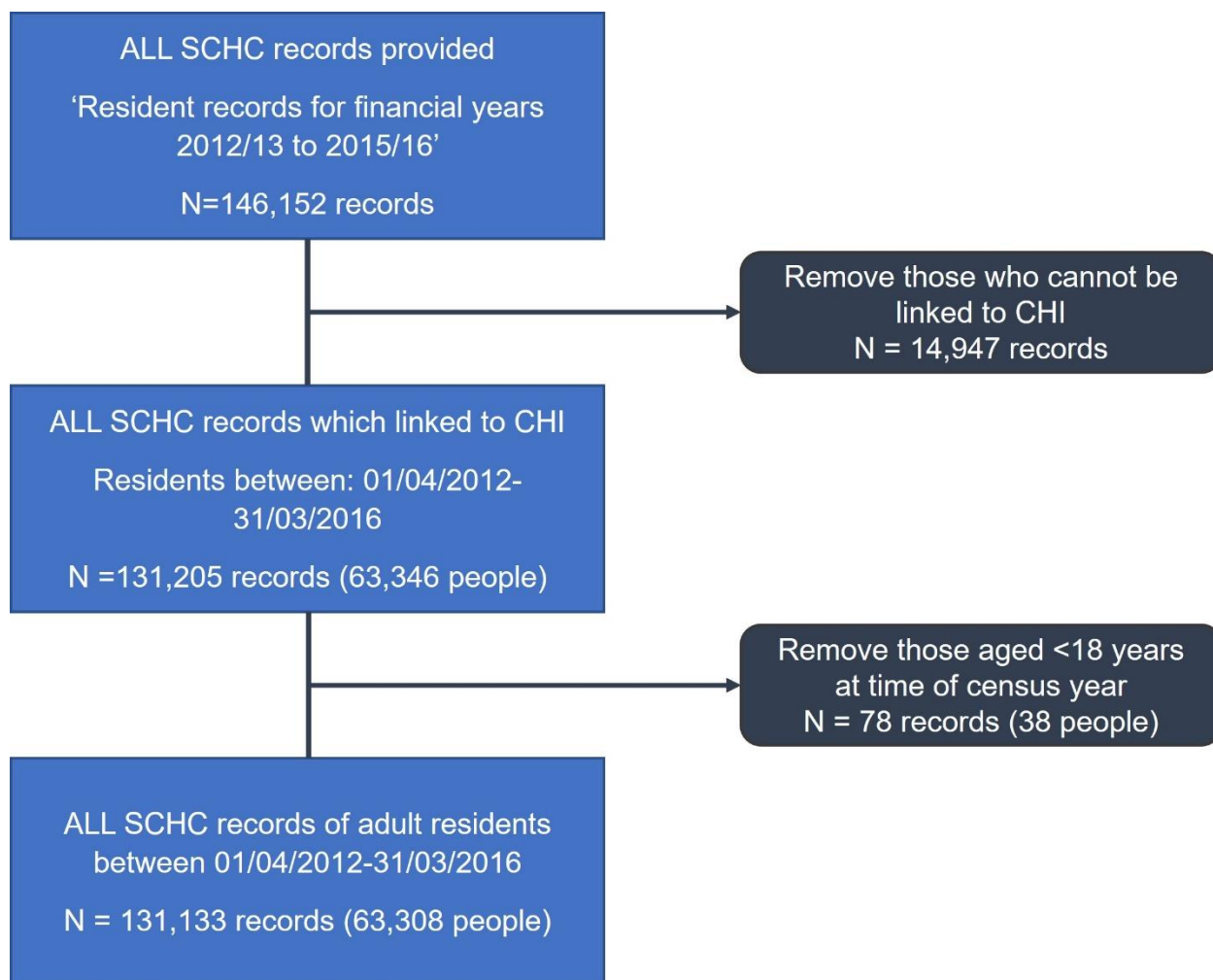
SCHC – Scottish Care Home Census

SMR – Scottish Morbidity Record

Supplementary Table 6: Comparing the overlap between care home, healthcare and administrative data in dementia information

Overlap between national data sources	Number of people	% of the study cohort
No dementia data in care home, healthcare or death data	19112	30.2
Dementia in care home data only	6900	10.9
Dementia in care home data and healthcare data	3738	5.9
Dementia in care home data and death data	9633	15.2
Dementia in care home data, healthcare data and death data	16004	25.3
Dementia in healthcare data only	1733	2.7
Dementia in healthcare data and death data	2986	4.7
Dementia in death data only	3202	5.1

Supplementary Figure 1: Flow diagram of cohort creation



Footnotes

SCHC – Scottish Care Home Census