

Supplemental Online Content

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eTable 1. Characteristics of Patients with Delirium upon Admission to SNF:
A Comparative Analysis of 2014 and 2019 Data with and without Second CAM Measure
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Between 2014 and 2019 by Including Patients without Follow-up CAM using Multiple
Imputation

This supplemental material has been provided by the authors to give readers additional information about their work.

**eTable 1. Characteristics of Patients with Delirium upon Admission to SNF:
A Comparative Analysis of 2014 and 2019 Data with and without Second CAM Measure**

Characteristics, n (%)	2014		2019	
	CAM measured at baseline and follow-up within 30 days (n=6,096)	CAM measured only at baseline (n=808)	CAM measured at baseline and follow-up within 30 days (n=2,778)	CAM measured only at baseline (n=815)
Age, mean (SD)	80.6 (11.0)	76.7 (12.5)	80.2 (10.7)	78.8 (11.3)
Female	3,578 (58.4)	459 (58.7)	1,555 (55.8)	487 (60.5)
Race				
White	5,002 (81.7)	609 (77.9)	2,276 (81.6)	663 (82.4)
Black	610 (10.0)	96 (12.3)	293 (10.5)	73 (9.1)
Hispanic	211 (3.5)	32 (4.1)	79 (2.8)	26 (3.2)
Other	299 (4.9)	45 (5.8)	140 (5.0)	43 (5.3)
CFS Scale				
Cognitively Intact	462 (7.6)	68 (8.7)	211 (7.6)	62 (7.7)
Mild Impairment	1,076 (17.6)	138 (17.7)	515 (18.5)	146 (18.1)
Moderate Impairment	3,243 (53.0)	389 (49.7)	1,532 (55.0)	439 (54.5)
Severe Impairment	875 (14.3)	101 (12.9)	331 (11.9)	92 (11.4)
CFS missing	466 (7.6)	86 (11.0)	199 (7.1)	66 (8.2)
Hearing impairment	1,997 (32.6)	204 (26.1)	855 (30.7)	209 (26.0)
Hearing missing	62 (1.0)	11 (1.4)	23 (0.8)	NA
Speech impairment	1,521 (24.8)	171 (21.9)	583 (20.9)	168 (20.9)
Speech missing	35 (0.6)	NA	18 (0.7)	NA
ADL dependency				
Bed mobility	5,812 (94.9)	678 (86.7)	2,628 (94.3)	706 (87.7)
Personal hygiene	5,861 (95.7)	692 (88.5)	2,635 (94.5)	742 (92.2)
Dressing	5,984 (97.8)	723 (92.5)	2,708 (97.1)	752 (93.4)

Bathing	6,037 (98.6)	741 (94.8)	2,727 (97.8)	782 (97.1)
Toileting	5,961 (97.4)	709 (90.7)	2,693 (96.6)	744 (92.4)
Eating	3,395 (55.5)	336 (43.0)	1,320 (47.4)	328 (40.8)
Total ADL dependence score, mean (SD)	7.3 (1.2)	6.7 (2.0)	7.1 (1.3)	6.8 (1.8)
Comorbidity				
Diabetes	2,847 (46.5)	318 (40.7)	1,292 (46.3)	343 (42.6)
Atrial fibrillation	1,751 (28.6)	142 (18.2)	713 (25.6)	158 (19.6)
Heart failure	3,191 (52.1)	327 (41.8)	1,284 (46.1)	298 (37.0)
Ischemic heart disease	4,004 (65.4)	430 (55.0)	1,743 (62.5)	427 (53.0)
COPD	2,538 (41.5)	299 (38.2)	1,061 (38.1)	266 (33.0)
Stroke	2,267 (37.0)	232 (29.7)	977 (35.0)	229 (28.5)
Osteoporosis	1,887 (30.8)	188 (24.0)	785 (28.2)	204 (25.3)
CKD	3,142 (51.3)	319 (40.8)	1,619 (58.1)	414 (51.4)
Hip fracture history	1,089 (17.8)	95 (12.2)	461 (16.5)	109 (13.5)
Cancer	1,195 (19.5)	113 (14.5)	532 (19.1)	117 (14.5)
Dementia	4,007 (65.5)	423 (54.1)	1,793 (64.3)	488 (60.6)
Behaviors				
No behaviors	4,030 (65.8)	474 (60.6)	1,900 (68.2)	491 (61.0)
Mild to moderate behaviors	1,229 (20.1)	177 (22.6)	594 (21.3)	204 (25.3)
Severe to very severe behaviors	729 (11.9)	114 (14.6)	266 (9.5)	98 (12.2)
Missing	134 (2.2)	17 (2.2)	28 (1.0)	12 (1.5)
PHQ-9				
Minimal depression	3,236 (52.9)	408 (52.2)	1,588 (57.0)	445 (55.3)
Mild depression	1,310 (21.4)	166 (21.2)	498 (17.9)	148 (18.4)
Moderate to severe depression	1,400 (22.9)	162 (20.7)	630 (22.6)	187 (23.2)
Missing	176 (2.9)	46 (5.9)	72 (2.6)	25 (3.1)

Antipsychotic Use in the past week				
Not used	4,360 (71.2)	543 (69.4)	2,035 (73.0)	535 (66.5)
1-5 days	450 (7.4)	79 (10.1)	193 (6.9)	101 (12.6)
≥6 days	1,035 (21.3)	155 (19.8)	559 (20.1)	169 (21.0)
Use of restraints in the past week	189 (3.1)	23 (2.9)	29 (1.0)	NA
Occupational therapy minutes, mean (SD)	207.6 (108.7)	145.7 (114.1)	204.4 (109.1)	142.2 (102.9)
Physical therapy minutes, mean (SD)	217.6 (114.1)	155.9 (118.4)	210.7 (119.9)	147.5 (107.6)
Length of stay, mean (SD)	19.0 (9.0)	6.7 (4.6)	17.8 (8.8)	6.7 (4.2)

eTable 2. Sensitivity Analysis: Comparison of Rates of Persistent Delirium and Mortality Between 2014 and 2019 by Including Patients without Follow-up CAM using Multiple Imputation

Models (N=10,497)	Outcome: Persistent Delirium		Outcome: Death within 30 days	
	2019 vs 2014 RRR (95% CI)	p-value	2019 vs 2014 RRR (95% CI)	p-value
Model 1: Unadjusted	0.71 (0.62-0.79)	<0.01	0.67 (0.58-0.77)	<0.01
Model 2: Model 1 + demographic factors	0.70 (0.62-0.79)	<0.01	0.67 (0.58-0.77)	<0.01
Model 3: Model 2 + health- related conditions ^a	0.70 (0.63-0.79)	<0.01	0.69 (0.59-0.79)	<0.01
Model 4: Model 3 + SNF care-related factors ^b	0.70 (0.62-0.78)	<0.01	0.58 (0.50-0.68)	<0.01

Abbreviations: CI, confidence interval; RRR, relative risk ratio; SNF, skilled nursing facility

^aHealth-related conditions include 11 chronic conditions, cognitive function scale, patient depression scale, behavioral symptoms

^bSNF care-related conditions include antipsychotic use days, restraint use, total occupational or physical therapy minutes