

Supplementary Online Content

Park S, White L, Fishman P, Larson EB, Coe NB. Health care utilization, care satisfaction, and health status for Medicare Advantage and traditional Medicare beneficiaries with and without Alzheimer disease and related dementias. *JAMA Netw Open*. 2020;3(3):e201809 doi:10.1001/jamanetworkopen.2020.1809

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

eTable 1. Results From First-Stage Regression of County-Level Medicare Advantage Penetration on Medicare Advantage Enrollment

	MA enrollment								
	Health care utilization except for prescription drug purchase	Prescription drug purchase	Quality of medical care	OOP costs for medical care	Available care by specialists	Follow-up after initial treatments	Physician's concern for overall health	General health status compared to same-age people	Overall health status compared to a year ago
County-level MA penetration	0.009 (0.009-0.010)	0.010 (0.010-0.011)	0.010 (0.009-0.010)	0.010 (0.009-0.010)	0.010 (0.009-0.010)	0.010 (0.009-0.010)	0.010 (0.009-0.010)	0.010 (0.009-0.010)	0.010 (0.009-0.010)
Observations	47100	33671	25533	34274	32777	33389	31423	46859	46970
R-Squared	0.191	0.219	0.204	0.193	0.200	0.199	0.200	0.191	0.191
F-statistics	245.49	183.91	185.48	190.34	244.32	210.03	211.44	244.10	245.60

Abbreviations: MA, Medicare Advantage; OOP, out-of-pocket.

eTable 2. Differences in Health Care Utilization Between Traditional Medicare and Medicare Advantage Beneficiaries With and Without Alzheimer Disease and Related Dementias

Outcomes	Adjusted predictions, mean (95% CI) ^a					
	With ADRD			Without ADRD		
	TM beneficiaries	MA beneficiaries	Differences among MA beneficiaries relative to TM beneficiaries	TM beneficiaries	MA beneficiaries	Differences among MA beneficiaries relative to TM beneficiaries
Number of health care utilization						
Inpatient hospital admission (n = 47100)	0.5 (0.4 to 0.5)	0.3 (0.2 to 0.3)	-0.2 (-0.3 to -0.1)	0.2 (0.2 to 0.3)	0.2 (0.1 to 0.2)	-0.1 (-0.1 to 0.0)
Outpatient hospital visit (n = 47100)	5.9 (5.2 to 6.7)	3.7 (2.3 to 5.2)	-2.2 (-3.8 to -0.6)	4.9 (4.6 to 5.3)	3.7 (3.0 to 4.4)	-1.2 (-2.2 to -0.1)
Medical provider visit ^b (n = 47100)	40.3 (37.8 to 42.8)	16.5 (14.5 to 18.5)	-23.8 (-27 to -20.7)	29.9 (28.8 to 31)	16.7 (14.6 to 18.8)	-13.2 (-16.2 to -10.1)
Home health visit (n = 47100)	75.4 (65.1 to 85.6)	87 (69.7 to 104.3)	11.7 (-8.5 to 31.8)	14.8 (11.9 to 17.7)	18.5 (12 to 24.9)	3.6 (-5.3 to 12.6)
Hospice stay (n = 47100)	0.0 (0.0 to 0.1)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)
Long-term facility stay (n = 47100)	0.2 (0.2 to 0.3)	0.1 (0.1 to 0.1)	-0.1 (-0.2 to 0.0)	0.1 (0.0 to 0.1)	0.0 (0.0 to 0.1)	0.0 (-0.1 to 0.0)
Short-term facility stay (n = 47100)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)
Prescription drug purchase ^c (n = 33671)	59.8 (56.5 to 63.2)	67.0 (61.2 to 72.7)	7.2 (0.5 to 13.8)	34.9 (33.2 to 36.5)	60.1 (56.5 to 63.6)	25.2 (20.2 to 30.2)
Dental visit (n = 47100)	1.0 (0.9 to 1.1)	0.8 (0.7 to 1.0)	-0.2 (-0.4 to 0.0)	1.4 (1.3 to 1.5)	1.4 (1.3 to 1.6)	0.1 (-0.2 to 0.3)

Abbreviations: ADRD, Alzheimer disease and related dementias; TM, traditional Medicare; MA, Medicare Advantage.

^a A two-stage least square regression model was used and county-level MA penetration was used as an instrument. Both stages adjusted the standard errors for clustering within individual and county.

^b The unit of measurement is a separate visit, procedure, service, or a supplied item.

^c The unit of measurement is a single purchase of a single drug in a single container.

eTable 3. Differences in Care Satisfaction and Health Status Between Traditional Medicare and Medicare Advantage Beneficiaries With and Without Alzheimer Disease and Related Dementias

Outcomes	Adjusted predictions, mean (95% CI) ^a					
	With ADRD			Without ADRD		
	TM beneficiaries	MA beneficiaries	Differences among MA beneficiaries relative to TM beneficiaries	TM beneficiaries	MA beneficiaries	Differences among MA beneficiaries relative to TM beneficiaries
Care satisfaction ^b						
Quality of medical care (n = 25533)	3.8 (3.8 to 3.8)	3.8 (3.7 to 3.9)	3.8 (3.8 to 3.9)	3.9 (3.8 to 3.9)	0.0 (-0.1 to 0.1)	0.0 (0.0 to 0.1)
OOP costs for medical care (n = 34274)	3.7 (3.6 to 3.7)	3.6 (3.5 to 3.7)	3.7 (3.6 to 3.7)	3.7 (3.6 to 3.7)	-0.1 (-0.2 to 0.0)	0.0 (-0.1 to 0.1)
Available care by specialists (n = 32777)	3.5 (3.5 to 3.5)	3.6 (3.5 to 3.7)	3.6 (3.5 to 3.6)	3.6 (3.5 to 3.7)	0.1 (0.0 to 0.3)	0.1 (-0.1 to 0.2)
Follow-up after initial treatments (n = 33389)	3.5 (3.4 to 3.5)	3.2 (3.1 to 3.3)	3.5 (3.4 to 3.6)	3.5 (3.3 to 3.6)	-0.2 (-0.4 to -0.1)	0.0 (-0.2 to 0.1)
Physician's concern for overall health (n = 31423)	3.8 (3.8 to 3.8)	3.8 (3.8 to 3.9)	3.8 (3.8 to 3.9)	3.9 (3.8 to 3.9)	0.0 (-0.1 to 0.1)	0.1 (0.0 to 0.1)
Health status ^b						
General health status compared to same-age people (n = 46859)	3.3 (3.2 to 3.3)	3.0 (3.0 to 3.1)	2.7 (2.6 to 2.8)	2.7 (2.6 to 2.8)	-0.2 (-0.3 to -0.1)	0.0 (-0.1 to 0.1)
Overall health status compared to a year ago (n = 46970)	0.8 (0.8 to 0.8)	0.8 (0.7 to 0.8)	0.6 (0.6 to 0.6)	0.6 (0.6 to 0.6)	0.0 (-0.1 to 0.0)	0.0 (0.0 to 0.1)

Abbreviations: ADRD, Alzheimer disease and related dementias; TM, traditional Medicare; MA, Medicare Advantage; OOP, out-of-pocket.

^a A two-stage least square regression model was used and county-level MA penetration was used as an instrument. Both stages adjusted the standard errors for clustering within individual and county.

^b A higher value indicates better care satisfaction or health status.