Supplementary Online Content

Gotanda H, Nuckols T, Mori K, Tsugawa Y. Comparison of the quality of chronic disease management between adults with and without dementia. *JAMA Netw Open*. 2021;4(5):e219622. doi:10.1001/jamanetworkopen.2021.9622

eTable 1. Comparison of 5-Year Mortality Index Construct Between NHIS and MEPS **eTable 2.** Experts' Opinion on Time Horizon to Benefit and Potential Burden of Care from Assessing Care of Vulnerable Elders-3 (ACOVE-3)

eTable 3. Comparison of Chronic Disease Management Between Adults with Dementia and Those Without Dementia (With Any Estimated 5-Year Mortality Risk)

eTable 4. Comparison of Chronic Disease Management Between Adults With Dementia and Those With Cancer

eFigure. Flowchart of the Study Population **eReference.**

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

eTable 1. Comparison of 5-year mortality index construct between NHIS and MEPS

	NHIS (original)	pts	MEPS	pts
1	Age		Age	
	65-69	0	65-69	0
	70-74	1	70-74	1
	75-79	3	75-79	3
	80-84	5	80-84	5
	85+	7	85+	
2	Sex		Sex	
		2	Female	2
3	BMI		BMI	
	<25	2	<25	2
4	Vould you say your health in general is: In general, compared to other people of your age would you say that your health is:			
	Excellent/Very good	0	Excellent/Very good	0
	Good	1	Good	_
	Fair/Poor	2	Fair/Poor	2
5	Have you ever been told by a doctor or health professional that you had:		Diagnoses based on Clinical Classification Softwar (CCS) codes in MEPS Medical Condition files:	;
	Emphysema/chronic bronchitis	2	Emphysema/chronic bronchitis	2
	A cancer (excluding non-melanoma skin cancer)	2	A cancer (excluding non-melanoma skin cancer)	2
	Diabetes (include borderline diabetes)	2	Diabetes (include borderline diabetes)	2
6	Because of a physical mental, or emotional problems do you need the help of other persons in handling routine needs such as everyday household chores, doing necessary business, shopping, or getting around for other purposes? No		Do you receive help or supervision using the teleph paying bills, taking medications, preparing light me doing laundry, or going shopping (because of an impairment or a physical or mental health problem) No	als,
	Yes	2	Yes	_
	165		168	
7	By yourself, and without using any special equipmen how difficult is it for you to walk a quarter of a mile (about 3 city blocks)?	How much difficulty do you have walking about 3 city blocks or about a quarter of a mile?		
	Not at all difficult	0	No difficulty	0
	A little difficult to very difficult	3	Some difficulty/A lot of difficulty	
	Can't do at all/do not do	3	Completely unable to do it	
8	Which best describes your cigarette use?		Do you currently smoke?	
	Never smoked (<100 cigarettes in your entire life)	0	No	0
	Former smoker	1		
	Current smoker (smoke some days or every day)	3	Yes	3
9	During the past 12 months, how many times were you hospitalized overnight?	Overnight hospitalization based on the MEPS Hospital Inpatient Stays files:		
	None	0	None	0
	Once	1	Once	1

Notes: This table was modified from Gotanda H, Ganz DA, Wenger NS. Association Between Estimated Mortality Risk and Measured Quality of Care in Older Adults. J Am Geriatr Soc. 2018;66(9):1838-44. Abbreviations: BMI, body mass index. MEPS, Medical Expenditure Panel Survey; NHIS, National Health Interview Survey.

eTable 2. Experts' opinion on time horizon to benefit and potential burden of care from Assessing Care of Vulnerable Elders-3 (ACOVE-3)

Quality indicators Care to be provided to fulfill an indicator		Eligibility for an indicator	Time horizon to benefit	Potential burden of care		
Preventive care						
Influenza vaccine	Influenza vaccine within 1y	Age ≥50 y	Short	Low		
Smoking cessation counseling			Intermediate	Low		
Dental care	Dental visit within 1y	All	Short	Low		
Diabetes care						
HbA1c measurement HbA1c measurement at least twice yearly		Diabetes	Long*	Low		
Foot examination	Foot examination Foot examination within 1y		Short	Low		
Eye examination Eye examination within 1y		Diabetes	Long*	Low		
Medication treatment	Medication treatment					
Anticoagulation for atrial fibrillation	Anticoagulation prescription within 1y	Atrial fibrillation	Short	Moderate		
ACE-I/ARB for heart failure	ACE-I/ARB prescription within 1y	Heart failure	Intermediate	Low		
β-blocker for heart failure	β-blocker prescription within 1y	Heart failure	Intermediate	Low		
Antiplatelet for CAD/MI	Antiplatelet prescription within 1y	CAD or MI	Intermediate	Low		
Beta-blocker for CAD/MI	Beta-blocker prescription within 1y	CAD or MI	Intermediate	Low		
Statin for CAD/MI	Statin for CAD/MI Statin prescription within 1y		Intermediate	Low		
Antiplatelet for CVA	Antiplatelet prescription within 1y	CVA	Short	Low		
Controller for poorly controlled COPD ICS+LABA or LAMA+LABA or ICS+LAMA+LABA prescription within 1y		COPD and systemic steroid use within 1y	Short	Low		

Notes: This table was modified from Wenger NS, Solomon DH, Amin A, Besdine RK, Blazer DG, Cohen H, et al. Application of Assessing Care of Vulnerable Elders-3 Quality Indicators to Patients with Advanced Dementia and Poor Prognosis. J Am Geriatr Soc. 2007;55 Suppl 2:S457-63. *We included these measures in diabetes care composite based on a prior study, 1 even though the experts in the ACOVE-3 project determined that these measures have a "long" time horizon. Abbreviations: HbA1c, hemoglobin A1c; ACE-I, angiotensin-converting enzyme inhibitor; ARB, angiotensin receptor blocker; CAD coronary artery disease; COPD, chronic obstructive pulmonary disease; CVA, cerebral vascular accident; ICS, inhaled corticosteroid; LABA, long-acting β agonist; LAMA, long-acting muscarinic antagonist; MI, myocardial infarction.

eTable 3. Comparison of chronic disease management between adults with dementia and those without dementia (with any estimated 5-year mortality risk)

Composite	Adults with dementia (n=1,335)		Adults without dementia (n=27,128)		Adjusted absolute difference	
category	Eligible	Composite	Eligible	Composite	Coefficient,	
	participants, No.	score, adjusted mean %	participants, No.	score, adjusted mean %	percentage point (95% CI)	P value
Preventive care	1280	61.0	26742	66.9	-6.0 (-8.5 to -3.4)	<.001
Diabetes care	314	74.1	5434	75.1	-1.1 (-5.8 to 3.6)	.66
Medication treatment	540	47.8	7020	47.9	-0.0 (-4.4 to 4.3)	.99

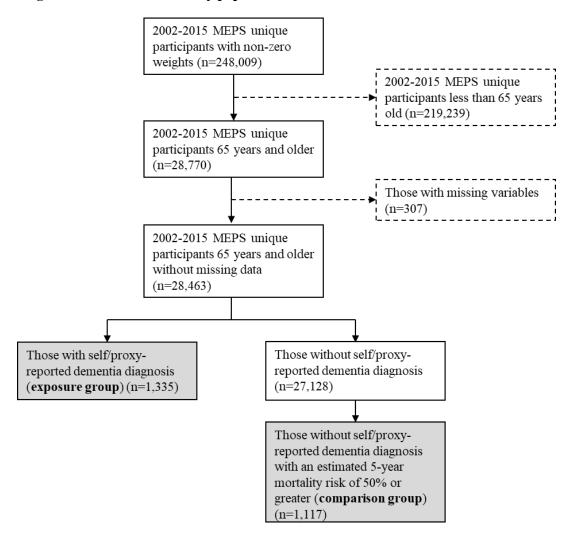
Notes: Adults without dementia are those without dementia diagnosis regardless of estimated 5-year mortality risk (see main text for more details). See the notes for Table 3 in the main text for more details.

eTable 4. Comparison of chronic disease management between adults with dementia and those with cancer

Composite	Adults with dementia (n=1,335)		Adults without dementia (n=27,128)		Adjusted absolute difference	
category	Eligible participants, No.	Composite score, adjusted mean %	Eligible participants, No.	Composite score, adjusted mean %	Coefficient, percentage point (95% CI)	P value
Preventive care	1157	63.8	2676	70.7	-6.9 (-10.4 to -3.4)	<.001
Diabetes care	289	75.3	582	77.8	-2.5 (-8.8 to 3.7)	.43
Medication treatment	477	55.4	907	44.4	11.0 (4.7 to 17.2)	<.001

Notes: Adults with cancer are those without dementia diagnosis who have cancer (see main text for more details). See the notes for Table 3 in the main text for more details.

eFigure. Flowchart of the study population



Supplemental Reference

1.	Thorpe CT, Thorpe JM, Kind AJH, Bartels CM, Everett CM, Smith MA. Receipt of monitorin of diabetes mellitus in older adults with comorbid dementia. J Am Geriatr Soc. 2012;60(4):644-651.			