

Table S1. Comparison of Multivariable Regression and Instrumental Variable Analysis of the Effect of Home-Based Primary Care (HBPC) and Selected Comorbidities on the Odds of Hospitalization for an Ambulatory Care Sensitive Condition

Factor	Standard Multivariable Regression (One Stage)	Instrumental Variable Analysis (Two Stage)
	Odds Ratio (95% Confidence Interval)	
HBPC	1.50 (1.45–1.55)	0.35 (0.30–0.42)
Age (per year)	1.01 (1.01–1.01)	1.02 (1.02–1.02)
Congestive heart failure	1.88 (1.85–1.91)	1.89 (1.86–1.92)
Cardiac arrhythmia	1.22 (1.20–1.24)	1.21 (1.19–1.23)
Cardiac valve disease	1.04 (1.02–1.06)	1.03 (1.01–1.05)
Pulmonary circulatory disorder	1.29 (1.25–1.33)	1.30 (1.26–1.33)
Hypertension	0.98 (0.96–1.00)	0.96 (0.94–0.98)
Paralysis	1.14 (1.10–1.18)	1.24 (1.19–1.29)
Other neurological disorder	1.05 (1.02–1.07)	1.07 (1.03–1.10)
Chronic pulmonary disorder	1.80 (1.77–1.82)	1.81 (1.79–1.84)
Hypothyroidism	0.96 (0.95–0.98)	0.96 (0.94–0.98)
Renal failure	1.02 (1.00–1.04)	1.00 (0.98–1.02)
Liver disease	1.09 (1.05–1.12)	1.07 (1.04–1.17)
Peptic ulcer disease	1.03 (0.99–1.06)	1.04 (1.01–1.08)
Acquired immunodeficiency syndrome	0.98 (0.86–1.10)	0.93 (0.82–1.06)
Lymphoma	1.09 (1.03–1.16)	1.10 (1.04–1.17)
Cancer: metastatic	1.26 (1.19–1.33)	1.27 (1.20–1.34)
Cancer: solitary tumor	1.00 (0.98–1.02)	0.99 (0.98–1.01)
Rheumatoid arthritis	1.06 (1.02–1.07)	1.06 (1.03–1.10)
Coagulopathy	1.05 (1.02–1.07)	1.07 (1.04–1.10)
Obesity	0.97 (0.93–1.01)	0.97 (0.96–0.99)
Weight loss	1.00 (0.98–1.04)	1.03 (0.99–1.06)
Fluid or electrolyte disorder	1.28 (1.26–1.30)	1.29 (1.27–1.31)
Blood loss anemia	0.97 (0.93–1.00)	0.96 (0.92–1.00)
Iron-deficiency anemia	1.10 (1.08–1.11)	1.10 (1.08–1.11)
Alcohol abuse	1.12 (1.08–1.15)	1.12 (1.08–1.15)
Drug abuse	1.38 (1.33–1.43)	1.33 (1.28–1.38)
Psychosis	1.04 (1.02–1.05)	1.07 (1.05–1.08)
Depression	1.08 (1.07–1.10)	1.12 (1.11–1.15)

Model also included participant demographic characteristics, month, year, and Veterans Affairs Medical Center

Table S2. Selected Second Stage Regression Results and Risk Score Calculations

	Beta	Odds Ratio	Score
Congestive heart failure	0.63829	1.89324	6
Cardiac arrhythmia	0.19391	1.21399	2
Cardiac valve disease	0.03081	1.03129	0
Pulmonary circulatory disorder	0.25889	1.29549	3
Peripheral vascular disease	0.05859	1.06034	1
Hypertension	-0.03937	0.96140	-1
Paralysis	0.21579	1.24085	2
Other neurological disorder	0.06683	1.06911	1
Chronic pulmonary disorder	0.59507	1.81317	6
Hypothyroidism	-0.03576	0.96487	0
Renal failure	-0.00416	0.99585	0
Liver disease	0.06400	1.06609	1
Peptic ulcer disease	0.04542	1.04646	0
Acquired immunodeficiency syndrome	-0.06989	0.93250	-1
Lymphoma	0.09609	1.10086	1
Cancer: metastatic	0.24128	1.27288	2
Cancer: solitary tumor	-0.00705	0.99297	0
Rheumatoid Arthritis	0.05946	1.06126	1
Coagulopathy	0.06995	1.07246	0
Obesity	-0.02915	0.97127	0
Weight loss	0.02534	1.02567	0
Fluid or electrolyte disorder	0.25627	1.29211	3
Blood loss anemia	-0.04399	0.95696	0
Iron-deficiency anemia	0.09082	1.09507	1
Alcohol abuse	0.11209	1.11861	1
Drug abuse	0.28595	1.33102	3
Psychosis	0.06304	1.06507	1
Depression	0.12189	1.12963	1

Models also included participant demographic characteristics, Veterans Affairs facility, service connection, month, and year.

**Commented [AR1]:** Is this different from VAMC? If not, please use one or the other consistently here and in the other tables