

APPENDIX 5 (as supplied by the authors): Characteristics of cases and controls used for analysis of 90 day mortality

	Cases	Controls	p-value
Number	44,837	184,210	
Males, # (%)	23,919 (53.3)	92,730 (50.3)	<.0001 *
Age, mean (SD)	72.2 (13.1)	70.3 (13.5)	<.001 *
Left Against Medical Advice (AMA), # (%)	620 (1.38)	1,093 (0.59)	<.0001
Any AMA discharges in prior 5 years, #, (%)	223 (0.50)	1,246 (0.68)	<.0001
Hospitalizations in prior 5 years, mean (SD)	1.0 (0.9)	1.4 (2.3)	<.001
Median (interquartile range)	1 (0-1)	1 (0-2)	
<i>Average household income quintile, # (%)</i>			<.0001
Urban 1 (lowest urban stratum)	6,392 (14.26)	25,957 (14.09)	
Urban 2	4,976 (11.10)	22,136 (12.02)	
Urban 3	4,351 (9.70)	20,842 (11.31)	
Urban 4	3,077 (6.86)	15,833 (8.60)	
Urban 5 (highest urban stratum)	2,812 (6.27)	15,000 (8.14)	
Rural 1 (lowest rural stratum)	4,297 (9.58)	15,871 (8.62)	
Rural 2	4,904 (10.94)	18,248 (9.91)	
Rural 3	4,399 (9.81)	17,893 (9.71)	
Rural 4	3,336 (7.44)	14,119 (7.66)	
Rural 5 (highest rural stratum)	2,352 (5.25)	10,550 (5.73)	
Not Calculated	3,941 (8.79)	7,761 (4.21)	
<i>Year of hospitalization</i>			<.0001 *
1990-1993	9,682 (21.59)	42,440 (23.04)	
1994-1998	12,191 (27.19)	49,312 (26.77)	
1999-2003	11,669 (26.03)	46,219 (25.09)	
2004-2009 (reference)	11,295 (25.19)	46,239 (25.10)	
<i>Comorbid conditions, # (%)</i>			
Metastatic cancer	12,005 (26.77)	6,299 (3.42)	<.0001
Congestive heart failure	11,916 (26.58)	19,246 (10.45)	<.0001
Diabetes	9,548 (21.29)	23,880 (12.96)	<.0001
Chronic pulmonary disease	8,642 (19.27)	17,788 (9.66)	<.0001
Hypertension, uncomplicated	8,550 (19.07)	35,276 (19.15)	0.7
Arrhythmia	7,636 (17.03)	20,942 (11.37)	<.0001
Fluid and electrolyte disorders	5,867 (13.09)	7,846 (4.26)	<.0001
Solid tumor without metastasis	5,441 (12.14)	13,095 (7.11)	<.0001
Renal failure	4,500 (10.04)	4,686 (2.54)	<.0001
Other neurologic disorders	3,053 (6.81)	6,753 (3.67)	<.0001
Peripheral vascular disease	2,899 (6.47)	6,439 (3.50)	<.0001
Depression	2,508 (5.59)	6,339 (3.44)	<.0001
Alcohol abuse	1,948 (4.34)	5,030 (2.73)	<.0001
Valvular heart disease	1,939 (4.32)	3,953 (2.15)	<.0001
Hypertension, complicated	1,916 (4.27)	3,050 (1.66)	<.0001
Deficiency anemia	1,802 (4.02)	3,087 (1.68)	<.0001
Hypothyroidism	1,792 (4.00)	4,990 (2.71)	<.0001
Liver disease	1,692 (3.77)	1,758 (0.95)	<.0001
Lymphoma	1,652 (3.68)	1,353 (0.73)	<.0001
Psychoses	1,625 (3.62)	4,303 (2.34)	<.0001
Paralysis	1,127 (2.51)	2,695 (1.46)	<.0001

Rheumatoid arthritis/collagen-vascular disease	1,120 (2.50)	2,929 (1.59)	<.0001
Pulmonary circulation disorders	1,115 (2.49)	1,689 (0.92)	<.0001
Coagulopathy	959 (2.14)	1,286 (0.70)	<.0001
Weight loss	859 (1.92)	1,031 (0.56)	<.0001
Blood loss anemia	715 (1.59)	1,066 (0.58)	<.0001
Obesity	593 (1.32)	2,218 (1.20)	0.04
Peptic ulcer disease w/o bleeding	580 (1.29)	1,367 (0.74)	<.0001
Drug abuse	437 (0.97)	945 (0.51)	<.0001
AIDS/HIV	136 (0.30)	44 (0.02)	<.0001

*These parameters are not identical between cases and controls despite matching due to variable numbers of controls per case

APPENDIX 6

Full results of the conditional logistic regression model for 90-day mortality.

<i>Variable</i>	<i>Odds ratio*</i>	<i>95% C.I.</i>
Left AMA from index hospitalization	2.511	2.183, 2.887
Any AMA discharges in prior 5 years	0.815	0.660, 1.007
Number of hospitalizations in prior 5 years	0.685	0.678, 0.693
<i>Average household income quintile</i>		
Urban 1 (lowest urban stratum) [reference]	--	--
Urban 2	0.948	0.899, 0.999
Urban 3	0.886	0.839, 0.936
Urban 4	0.851	0.801, 0.904
Urban 5 (highest urban stratum)	0.812	0.763, 0.865
Rural 1 (lowest rural stratum)	1.673	1.582, 1.769
Rural 2	1.717	1.627, 1.812
Rural 3	1.618	1.532, 1.710
Rural 4	1.498	1.411, 1.590
Rural 5 (highest rural stratum)	1.226	1.146, 1.312
Not calculated	2.243	2.111, 2.384
<i>Year of hospitalization</i>		
1990-1993	0.312	0.189, 0.515
1994-1998	0.508	0.336, 0.768
1999-2003	0.800	0.599, 1.068
2004-2009 (reference)	--	--
<i>Comorbid conditions</i>		
Metastatic cancer	26.993	25.815, 28.225
AIDS/HIV	17.729	11.773, 26.700
Lymphoma	10.470	9.522, 11.514
Liver disease	4.513	4.109, 4.957
Solid tumor without metastasis	4.144	3.972, 4.324
Renal failure	3.404	3.193, 3.630
Congestive heart failure	3.191	3.073, 3.314
Fluid and electrolyte disorders	2.399	2.287, 2.517
Chronic pulmonary disease	2.259	2.174, 2.348
Coagulopathy	2.189	1.952, 2.454
Weight loss	2.023	1.793, 2.282
Other neurologic disorders	1.967	1.857, 2.083
Drug abuse	1.885	1.617, 2.198
Rheumatoid arthritis/collagen-vascular disease	1.865	1.705, 2.041
Diabetes	1.863	1.796, 1.931
Pulmonary circulation disorders	1.703	1.538, 1.886
Peripheral vascular disease	1.697	1.596, 1.803
Blood loss anemia	1.631	1.430, 1.860
Peptic ulcer disease w/o bleeding	1.589	1.393, 1.813
Depression	1.534	1.440, 1.634
Deficiency anemia	1.479	1.366, 1.601
Valvular heart disease	1.408	1.304, 1.521
Paralysis	1.405	1.281, 1.541
Psychoses	1.346	1.246, 1.453
Alcohol abuse	1.298	1.203, 1.400
Arrhythmia	1.190	1.143, 1.238
Hypothyroidism	1.052	0.977, 1.131
Obesity	0.866	0.769, 0.975

Hypertension, uncomplicated	0.862	0.832, 0.893
Hypertension, complicated	0.846	0.775, 0.924

AMA, left hospital against medical advice.

* Odds ratios adjusted for: AMA discharge status, year of index hospitalization, comorbid conditions, average household income, the number of hospitalizations in the five years prior to the index hospitalization, and the existence of any AMA discharges in the five years prior to the index hospitalization. In addition exact matching occurred on age and sex.