## **Supplemental Online Content**

Park C, Kim D, Briesacher BA. Association of social isolation of long-term care facilities in the United States with 30-day mortality. *JAMA Netw Open.* 2021;4(6):e2113361. doi:10.1001/jamanetworkopen.2021.13361

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

**eTable 1.** Odds ratio (OR) of having long-term care facilities in ZIP Code Tabulation Area (ZCTA) - Subgroup analyses of ZCTAs where the proportion of Whites is above the median

Variable	OR	[95%	CI]	Р
Age 65+ years (%)	1.057	[1.049,	1.065]	< 0.001
Female (%)	1.057	[1.041,	1.073]	< 0.001
Education: less than high school (%)	1.002	[0.993,	1.011]	0.718
Education: high school (%)	0.990	[0.983,	0.997]	0.006
Married (%)	0.982	[0.974,	0.990]	< 0.001
House owner (%)	0.969	[0.962,	0.976]	< 0.001
Medicaid enrollment (%)	1.000	[0.992,	1.008]	0.986
Median household income (\$1,000)	1.013	[1.008,	1.019]	< 0.001
Total population (n)				
<1,000	Ref.			
1,000-9,999	40.691	[32.081,	51.611]	< 0.001
≥10,000	388.235	[293.768,	513.081]	< 0.001
Area				
Urban	2.127	[1.706,	2.652]	< 0.001
Rural	Ref.			
Census division				
New England	Ref.			
Middle Atlantic	0.709	[0.547,	0.920]	0.010
East North Central	1.979	[1.561,	2.509]	< 0.001
West North Central	3.859	[3.027,	4.921]	< 0.001
South Atlantic	0.545	[0.401,	0.740]	< 0.001
East South Central	1.084	[0.788,	1.491]	0.621
West South Central	1.674	[1.198,	2.339]	0.003
Mountain	1.020	[0.730,	1.423]	0.909
Pacific	0.530	[0.334,	0.841]	0.007
Elderly single-occupancy household (%)				
Q1: <30.77%	Ref.			
Q2: 30.77%-36.69%	2.838	[2.265,	3.556]	< 0.001
Q3: 36.70%-42.39%	7.302	[5.835,	9.138]	< 0.001
Q4: >42.39%	14.358	[11.308,	18.231]	< 0.001
Constant	0.000	[0.000,	0.001]	<0.001

**eTable 2.** Odds ratio (OR) of having long-term care facilities in ZIP Code Tabulation Area (ZCTA) - Subgroup analyses of ZCTAs where the proportion of African Americans is above the median

Variable	OR	[95%	CI]	Р
Age 65+ years (%)	1.079	[1.070,	1.088]	<0.001
Female (%)	1.027	[1.016,	1.038]	< 0.001
Education: less than high school (%)	1.019	[1.013,	1.026]	< 0.001
Education: high school (%)	1.004	[0.997,	1.010]	0.253
Married (%)	0.997	[0.991,	1.003]	0.354
House owner (%)	0.986	[0.982,	0.990]	< 0.001
Medicaid enrollment (%)	0.990	[0.985,	0.996]	< 0.001
Median household income (\$1,000)	1.010	[1.006,	1.014]	< 0.001
Total population (n)		_		
<1,000	Ref.			
1,000-9,999	23.962	[17.121,	33.537]	< 0.001
≥10,000	185.243	[130.867,	262.213]	< 0.001
Area		_	_	
Urban	1.510	[1.350,	1.688]	< 0.001
Rural	Ref.	_		
Census division				
New England	Ref.			
Middle Atlantic	0.591	[0.454,	0.770]	< 0.001
East North Central	1.260	[0.966,	1.642]	0.088
West North Central	2.051	[1.544,	2.725]	< 0.001
South Atlantic	0.608	[0.473,	0.782]	< 0.001
East South Central	0.952	[0.723,	1.253]	0.724
West South Central	1.588	[1.221,	2.066]	0.001
Mountain	0.600	[0.431,	0.837]	0.003
Pacific	0.598	[0.451,	0.794]	< 0.001
Elderly single-occupancy household (%)				
Q1: <30.77%	Ref.			
Q2: 30.77%-36.69%	2.002	[1.760,	2.276]	< 0.001
Q3: 36.70%-42.39%	3.762	[3.293,	4.299]	< 0.001
Q4: >42.39%	5.402	[4.634,	6.296]	<0.001
Constant	0.000	[0.000,	0.001]	<0.001

**eTable 3.** Odds ratio (OR) of having long-term care facilities in ZIP Code Tabulation Area (ZCTA) - Subgroup analyses of ZCTAs where the proportion of Hispanics is above the median

Variable	OR	[95%	CI]	Р
Age 65+ years (%)	1.067	[1.058,	1.076]	<0.001
Female (%)	1.038	[1.025,	1.051]	< 0.001
Education: less than high school (%)	1.019	[1.013,	1.026]	< 0.001
Education: high school (%)	1.013	[1.007,	1.020]	< 0.001
Married (%)	0.997	[0.990,	1.003]	0.285
House owner (%)	0.986	[0.981,	0.990]	< 0.001
Medicaid enrollment (%)	0.993	[0.988,	0.999]	0.027
Median household income (\$1,000)	1.013	[1.009,	1.017]	<0.001
Total population (n)				
<1,000	Ref.			
1,000-9,999	35.547	[25.241,	50.061]	<0.001
≥10,000	279.303	[195.698,	398.624]	<0.001
Area				
Urban	1.486	[1.323,	1.669]	<0.001
Rural	Ref.			
Census division				
New England	Ref.			
Middle Atlantic	0.644	[0.481,	0.862]	0.003
East North Central	1.373	[1.028,	1.833]	0.032
West North Central	2.864	[2.120,	3.869]	< 0.001
South Atlantic	0.769	[0.582,	1.016]	0.064
East South Central	1.112	[0.799,	1.548]	0.528
West South Central	2.131	[1.602,	2.834]	< 0.001
Mountain	0.914	[0.670,	1.246]	0.569
Pacific	0.739	[0.551,	0.990]	0.043
Elderly single-occupancy household (%)				
Q1: <30.77%	Ref.			
Q2: 30.77%-36.69%	2.290	[2.015,	2.601]	<0.001
Q3: 36.70%-42.39%	4.198	[3.667,	4.806]	< 0.001
Q4: >42.39%	6.195	[5.295,	7.248]	< 0.001
Constant	0.000	[0.000,	0.000]	<0.001

**eTable 4.** Odds ratio (OR) of 30-day mortality by individual, facility, and ZIP Code Tabulation Area (ZCTA)-level factors (N=730,524)

Facility stay   Short stayer   Ref.   Long stayer   0.013   [0.011, 0.015]   <0.001   Age   ≤ 64   Ref.			OR	[95%	CI]	Р
Long stayer	Individual level				_	
Long stayer	Facility stay	Short staver	Ref.			
Age         ≤ 64         Ref.           65-79         2.284         [2.179, 2.393] <0.001	,			[0.011,	0.015]	< 0.001
Se79	Age			, , , , , , , , , , , , , , , , , , ,	,	
Sex   Male   Ref.   R		65-79		[2.179.	2.3931	<0.001
Sex         Male         Ref.         Ref.         C.657         (0.645, 0.670)         -0.001           Race         White, non-Hispanic         Ref.         0.798         [0.769, 0.828]         <0.001		≥ 80				
Race   White, non-Hispanic   Ref.	Sex	1				
Race   White, non-Hispanic   Black, non-Hispanic   0.798   (0.769, 0.828   -0.001   Hispanic   0.751   (0.711, 0.793)   -0.001   (0.761   0.771, 0.783)   -0.001   (0.761   0.771, 0.783)   -0.001   (0.761   0.771, 0.883)   -0.001   (0.761   0.761, 0.883)   -0.001   (0.761   0.761, 0.883)   -0.001   (0.761   0.761, 0.883)   -0.001   (0.761   0.761, 0.883)   -0.001   (0.761   0.761, 0.883)   -0.001   (0.761   0.761, 0.883)   -0.001   (0.761   0.761, 0.883)   -0.001   (0.761   0.761, 0.761, 0.883)   -0.001   (0.761   0.761, 0.761, 0.883)   -0.001   (0.761   0.761,				[0.645.	0.6701	<0.001
Black, non-Hispanic   0.798   0.769,   0.828   <0.001     Hispanic   0.751   0.711,   0.793   <0.001     Others   0.823   0.767,   0.883   <0.001     Marital status   Married   Ref.         Never married   1.011   0.977,   1.047   0.526     Widowed   1.113   1.076,   1.152   <0.001     Separated   1.052   0.960,   1.153   0.281     Divorced   0.903   0.866,   0.942   <0.001     Medicaid Dual   No   Ref.         Yes   1.639   [1.606,   1.673   <0.001     RxHCC   2.308   [2.256,   2.362   <0.001     Ragidate   1.089   1.083   (1.986)   <0.001     Ragidate   1.089   1.083   (1.996)   <0.001     Ragidate   1.089   1.083   (1.996)   <0.001     Sex ratio   0.988   0.985,   0.992   <0.001     Withite, non-Hispanic   0.998   0.995,   1.001   0.270     Hispanic   0.999   0.996,   1.001   0.270     Hispanic   0.999   0.996,   1.003   0.697     Married   0.998   0.996,   1.001   0.270     Windowed   0.998   0.996,   1.001   0.310     Wandred   0.998   0.996,   1.001   0.310     Wandred   0.998   0.996,   1.001   0.310     Wandred   0.998   0.996,   1.001   0.310     Separated / divorced   1.004   1.000,   1.000   0.001     Wesseparated / divorced   1.004   1.000,   1.000   0.007     Number of residents   1.000   1.000   1.000   0.007     Profit   No   Ref.	Race			<u> </u>		
Hispanic   0.751   0.711,   0.793   <0.001				[0.769.	0.8281	<0.001
Others						
Marrial status						
Never married   1.011   [0.977,   1.047]   0.526   Wildowed   1.113   1.076,   1.152  <0.001   Separated   1.052   [0.960,   1.153]   0.281   Divorced   0.903   [0.866,   0.942] <0.001   Medicaid Dual   No   Ref.	Marital status			į en en ,		
Widowed   1.113   1.076,   1.152   <0.001				[0.977.	1.0471	0.526
Separated   1.052   [0.960,   1.153]   0.281						
Divorced   Divorced   Divorced   Divorced   Defension   No   Ref.						
Medicaid Dual   No   Ref.						
Yes	Medicaid Dual			[0.000,	0.0 12]	10.001
Depression   No   Ref.	Wicaldara Buar			[1 606	1 6731	<0.001
Yes	Depression			[1.000,	1.070]	<b>VO.001</b>
RxHCC   2.308   [2.256,   2.362]   <0.001	Bepression			[1 724	1 7921	<0.001
Facility level         0.982         [0.979, 0.984]         <0.001           Age median         1.089         [1.083, 1.096]         <0.001	RyHCC	103				
% age 65 and older       0.982       [0.979, 0.984]       <0.001		<u> </u>	2.000	[2.200,	2.002]	<b>VO.001</b>
Age median         1.089         [1.083, 1.096]         <0.001           Sex ratio         0.988         [0.985, 0.992]         <0.001			0.982	[n 979	0 9841	<0.001
Sex ratio         0.988         [0.985, 0.992]         <0.001           % White, non-Hispanic         0.997         [0.994, 1.000]         0.027           % Black or African American, non-Hispanic         0.998         [0.995, 1.001]         0.270           % Hispanic         0.999         [0.996, 1.003]         0.697           % married         0.990         [0.987, 0.994]         <0.001						
% White, non-Hispanic       0.997       [0.994, 1.000]       0.027         % Black or African American, non-Hispanic       0.998       [0.995, 1.001]       0.270         % Hispanic       0.999       [0.996, 1.003]       0.697         % married       0.990       [0.987, 0.994]       <0.001	U					
% Black or African American, non-Hispanic       0.998       [0.995, 1.001]       0.270         % Hispanic       0.999       [0.996, 1.003]       0.697         % married       0.990       [0.987, 0.994]       <0.001						
% Hispanic       0.999       [0.996, 1.003]       0.697         % married       0.990       [0.987, 0.994]       <0.001		rican non-Hispanic				
% married       0.990       [0.987, 0.994]       <0.001		nean, non mapanie				
% never married       1.006       [1.003, 1.009]       <0.001						
% widowed       0.998       [0.996, 1.001]       0.310         % separated/ divorced       1.004       [1.001, 1.008]       0.007         Number of residents       1.000       [1.000, 1.000]       0.017         % residents on Medicaid       1.012       [1.012, 1.013]       <0.001						
% separated/ divorced       1.004       [1.001, 1.008]       0.007         Number of residents       1.000       [1.000, 1.000]       0.017         % residents on Medicaid       1.012       [1.012, 1.013]       <0.001						
Number of residents         1.000         [1.000,         1.000]         0.017           % residents on Medicaid         1.012         [1.012,         1.013]         <0.001						
% residents on Medicaid         1.012         [1.012,         1.013]         <0.001           Chain Ownership         No         Ref.						
Chain Ownership         No         Ref.         1.000         [1.000,         1.001]         0.003           Profit         No         Ref.		٦				
Yes         1.000         [1.000,         1.001]         0.003           Profit         No         Ref.				[1.012,	1.010]	<b>40.001</b>
Profit         No         Ref.           Yes         1.001         [1.000,         1.001]         <0.001	Chain Cwherenp			[1 000	1 0011	0.003
Yes         1.001         [1.000,         1.001]         <0.001           ZCTA level         0.997         [0.992,         1.002]         0.208           Age median         0.991         [0.985,         0.996]         0.001           Sex ratio         1.002         [1.001,         1.004]         <0.001	Profit			[1.000,	1.001]	0.005
ZCTA level       0.997       [0.992, 1.002]       0.208         Age median       0.991       [0.985, 0.996]       0.001         Sex ratio       1.002       [1.001, 1.004]       <0.001	Tiont			[1 000	1 0011	<0.001
% age 65 and older       0.997       [0.992, 1.002]       0.208         Age median       0.991       [0.985, 0.996]       0.001         Sex ratio       1.002       [1.001, 1.004]       <0.001	ZCTA level	103	1.001	[1.000,	1.001]	<b>\0.001</b>
Age median       0.991       [0.985, 0.996]       0.001         Sex ratio       1.002       [1.001, 1.004]       <0.001			0 997	[0 992	1 0021	0.208
Sex ratio         1.002         [1.001,         1.004]         <0.001						
% owner housing       1.004       [1.003, 1.006]       <0.001	0					
% married       1.006       [1.003, 1.009]       <0.001						
% high school or higher       0.994       [0.991, 0.997]       <0.001						
Median household income         1.000         [1.000,         1.000]         <0.001           % White alone         1.001         [0.998,         1.003]         0.580						
% White alone 1.001 [0.998, 1.003] 0.580						
		110				
		rican alone	1.000	[0.997,	1.003]	0.960

% Hispanic		0.992	[0.990,	0.994]	<0.001
Total population (n)					
<1,000		Ref.			
1,000-9,999		0.906	[0.750,	1.095]	0.306
≥10,000		0.792	[0.656,	0.957]	0.016
Area					
Urban		0.851	[0.823,	0.881]	<0.001
Rural		Ref.			
Census division					
New England		Ref.			
Middle Atlantic		1.165	[1.099,	1.235]	<0.001
East North Central		1.322	[1.248,	1.400]	<0.001
West North Central		1.441	[1.342,	1.548]	<0.001
South Atlantic		1.143	[1.075,	1.216]	<0.001
East South Central		1.257	[1.154,	1.369]	<0.001
West South Central		1.679	[1.567,	1.800]	<0.001
Mountain		1.496	[1.379,	1.623]	<0.001
Pacific		1.366	[1.272,	1.468]	<0.001
Elderly single-	Q1: <30.77%	Ref.			
occupancy household	Q2: 30.77%-36.69%	1.087	[1.027,	1.150]	0.004
(%)	Q3: 36.70%-42.39%	1.161	[1.097,	1.229]	<0.001
	Q4: >42.39%	1.174	[1.103,	1.250]	<0.001
Constant		0.000	[0.000,	0.000]	<0.001

eTable 5. Odds ratio (OR) of 30-day mortality: test of interactions with race (N=730,524)

Elderly single-occupancy household (%)	Race	OR	[95% CI]		Р
Q1: <30.77%	White	Ref.			•
Q2: 30.77%-36.69%	Black	1.216	[1.060,	1.394]	0.005
Q2: 30.77%-36.69%	Hispanic	0.913	[0.788,	1.059]	0.229
Q2: 30.77%-36.69%	Others	0.910	[0.729,	1.135]	0.402
Q3: 36.70%-42.39%	Black	1.147	[1.009,	1.303]	0.036
Q3: 36.70%-42.39%	Hispanic	0.851	[0.738,	0.981]	0.026
Q3: 36.70%-42.39%	Others	0.949	[0.771,	1.169]	0.624
Q4: >42.39%	Black	1.112	[0.982,	1.259]	0.095
Q4: >42.39%	Hispanic	0.905	[0.794,	1.032]	0.136
Q4: >42.39%	Others	0.984	[0.808.	1.199]	0.875

**eTable 6.** Odds ratio (OR) of 30-day mortality by individual, facility, and ZIP Code Tabulation Area (ZCTA)-level factors - Subgroup analyses of White

		OR	[95%	CII	Р
Individual level			100 //		
Facility stay	Short stayer	Ref.			
<i>,</i> ,	Long stayer	0.004	[0.003,	0.005]	<0.001
Age	≤ 64	Ref.	[0:000,	0.000]	10.00
7.90	65-79	2.312	[2.187,	2.443]	<0.001
	≥ 80	4.599	[4.349,	4.864]	<0.001
Sex	Male	Ref.			
	Female	0.653	[0.640,	0.667]	<0.001
Marital status	Married	Ref.	[0:0:0]		
	Never married	1.020	[0.980,	1.060]	0.330
	Widowed	1.117	[1.075,	1.162]	<0.001
	Separated	0.981	[0.872,	1.104]	0.754
	Divorced	0.900	[0.858,	0.943]	<0.001
Medicaid Dual	No	Ref.	[0.000,	0.0 10]	10.001
Wedledid Eddi	Yes	1.704	[1.666,	1.742]	<0.001
Depression	No	Ref.	[1.000,	1.772]	<b>\0.001</b>
Depression	Yes	1.767	[1.731,	1.804]	<0.001
RxHCC	103	2.349	[2.288,	2.410]	<0.001
Facility level		2.040	[2.200,	2.410]	<b>VO.001</b>
% age 65 and older		0.979	[0.977,	0.982]	<0.001
Age median		1.096	[1.089,	1.103]	<0.001
Sex ratio		0.988	[0.984,	0.991]	<0.001
% White, non-Hispanic		0.995	[0.991,	0.999]	0.028
% Black or African Ame	rican non-Hispanic	0.998	[0.993,	1.003]	0.406
% Hispanic	ricari, rion-i lispariic	0.998	[0.993,	1.003]	0.400
% married		0.992	[0.988,	0.995]	<0.001
% never married		1.007	[1.004,	1.011]	<0.001
% widowed		0.999	[0.996,	1.002]	0.650
% separated/ divorced		1.005	[1.001,	1.002]	0.006
Number of residents		1.000	[0.999,	1.009]	<0.001
% residents on Medicaio	4	1.011	[1.011,	1.012]	<0.001
Chain Ownership	No	Ref.	[1.011,	1.012]	<0.001
Chain Ownership	Yes	1.000	[1.000,	1.001]	0.001
Profit	No	Ref.	[1.000,	1.001]	0.001
FTOIL	Yes	1.001	[1.000,	1.001]	0.001
ZCTA level	163	1.001	[1.000,	1.001]	0.001
% age 65 and older		0.998	[0.993,	1.003]	0.446
Age median		0.990	[0.984,	0.995]	<0.001
Sex ratio		1.003	[1.001,	1.004]	<0.001
% owner housing		1.005			<0.001
% married		1.005	[1.003, [1.003,	1.007]	
		0.994	_	1.009] 0.997]	<0.001
% high school or higher  Median household income		1.000	[0.990,		<0.001 <0.001
% White alone	HE	1.000	[1.000,	1.000] 1.004]	0.494
% Black or African Ame	rican along		_		
	IIICAII AIUIIE	1.000	[0.997,	1.003]	0.844
% Hispanic		0.992	[0.990,	0.994]	<0.001
Total population (n)		Dof			
<1,000 1,000-9,999		Ref.	[0.750	1 1051	0.422
1,000-9,999		0.924	[0.758,	1.125]	0.432

≥10,000		0.815	[0.670,	0.993]	0.042
Area					
Urban		0.854	[0.824,	0.886]	<0.001
Rural		Ref.			
Census division					
New England		Ref.			
Middle Atlantic		1.181	[1.112,	1.255]	<0.001
East North Central		1.325	[1.249,	1.406]	<0.001
West North Central		1.433	[1.331,	1.543]	<0.001
South Atlantic		1.106	[1.036,	1.181]	0.002
East South Central		1.205	[1.100,	1.320]	<0.001
West South Central		1.659	[1.541,	1.787]	<0.001
Mountain		1.519	[1.395,	1.655]	<0.001
Pacific		1.367	[1.268,	1.475]	<0.001
Elderly single-	Q1: <30.77%	Ref.			
occupancy household	Q2: 30.77%-36.69%	1.076	[1.011,	1.146]	0.021
(%)	Q3: 36.70%-42.39%	1.144	[1.075,	1.218]	<0.001
	Q4: >42.39%	1.149	[1.073,	1.230]	<0.001
Constant		0.000	[0.000,	0.000]	<0.001

**eTable 7.** Odds ratio (OR) of 30-day mortality by individual, facility, and ZIP Code Tabulation Area (ZCTA)-level factors - Subgroup analyses of African Americans

		OR	[95%	6 CI]	Р
Individual level					
Facility stay	Short stayer	0.000	[0.000,	0.005]	<0.001
	Long stayer				
Age	≤ 64	Ref.			
	65-79	2.395	[2.147,	2.672]	< 0.001
	≥ 80	4.588	[4.089,	5.148]	< 0.001
Sex	Male	Ref.			
	Female	0.688	[0.645,	0.733]	< 0.001
Marital status	Married	Ref.			
	Never married	1.015	[0.923,	1.116]	0.763
	Widowed	1.115	[1.019,	1.221]	0.018
	Separated	1.220	[1.019,	1.462]	0.031
	Divorced	0.916	[0.820,	1.022]	0.115
Medicaid Dual	No	Ref.	•		
	Yes	1.367	[1.282,	1.458]	< 0.001
Depression	No	Ref.		1	
•	Yes	1.601	[1.496,	1.713]	< 0.001
RxHCC		2.079	[1.957,	2.209]	< 0.001
Facility level			<u> </u>	1	
% age 65 and older		0.993	[0.986,	1.000]	0.052
Age median		1.047	[1.029,	1.065]	<0.001
Sex ratio		0.998	[0.988,	1.007]	0.661
% White, non-Hispanio		0.999	[0.987,	1.011]	0.878
% Black or African Am		0.999	[0.987,	1.011]	0.840
% Hispanic		0.999	[0.986,	1.013]	0.902
% married		0.994	[0.985,	1.003]	0.206
% never married		1.005	[0.997,	1.014]	0.203
% widowed		1.003	[0.994,	1.011]	0.535
% separated/ divorced		1.007	[0.998,	1.016]	0.105
Number of residents		1.001	[1.000,	1.001]	0.009
% residents on Medica	aid	1.020	[1.018,	1.022]	<0.001
Chain Ownership	No	Ref.	<u> </u>	,	
	Yes	1.000	[0.999,	1.001]	0.906
Profit	No	Ref.	<u></u>		
	Yes	1.002	[1.001,	1.002]	0.001
ZCTA level	•			1	
% age 65 and older		0.998	[0.982,	1.014]	0.794
Age median		0.985	[0.969,	1.001]	0.061
Sex ratio		1.003	[1.000,	1.006]	0.094
% owner housing		1.005	[1.001,	1.009]	0.015
% married		1.013	[1.005,	1.021]	0.001
% high school or higher		0.993	[0.986,	1.000]	0.067
Median household inco		1.000	[1.000,	1.000]	0.011
% White alone		0.996	[0.991,	1.002]	0.229
% Black or African Am	erican alone	0.997	[0.991,	1.004]	0.400
% Hispanic		0.990	[0.984,	0.995]	<0.001
Total population (n)		0.000	[2:30:,		
<1,000		Ref.			
1,000-9,999		0.832	[0.443,	1.561]	0.566

≥10,000		0.731	[0.391,	1.367]	0.327
Area	Area				
Urban		0.910	[0.823,	1.005]	0.064
Rural		Ref.			
Census division					
New England		Ref.			
Middle Atlantic		1.035	[0.829,	1.292]	0.763
East North Central		1.198	[0.961,	1.495]	0.109
West North Central		1.394	[1.064,	1.825]	0.016
South Atlantic		1.199	[0.964,	1.490]	0.103
East South Central		1.431	[1.104,	1.855]	0.007
West South Central		1.650	[1.303,	2.090]	<0.001
Mountain		1.039	[0.714,	1.513]	0.840
Pacific		1.530	[1.171,	1.999]	0.002
Elderly single-	Q1: <30.77%	Ref.			
occupancy household	Q2: 30.77%-36.69%	1.314	[1.135,	1.521]	<0.001
(%)	Q3: 36.70%-42.39%	1.363	[1.174,	1.582]	<0.001
	Q4: >42.39%	1.406	[1.192,	1.660]	<0.001
Constant		0.000	[0.000,	0.001]	<0.001

**eTable 8.** Odds ratio (OR) of 30-day mortality by individual, facility, and ZIP Code Tabulation Area (ZCTA)-level factors - Subgroup analyses of Hispanics

		OR	[95%	G CI]	Р
Individual level					
Facility stay	Short stayer	Ref.			
	Long stayer	1.000			
Age	≤ 64	Ref.			
	65-79	1.766	[1.460,	2.135]	< 0.001
	≥ 80	3.588	[2.959,	4.351]	< 0.001
Sex	Male	Ref.	-		
	Female	0.685	[0.621,	0.755]	< 0.001
Marital status	Married	Ref.			
	Never married	0.910	[0.780,	1.061]	0.229
	Widowed	1.075	[0.920,	1.255]	0.365
	Separated	1.131	[0.844,	1.516]	0.411
	Divorced	0.905	[0.752,	1.090]	0.294
Medicaid Dual	No	Ref.	į en en,		0.20
	Yes	1.171	[1.053,	1.303]	0.004
Depression	No	Ref.	[11000,		0.00
2 op. 000.0	Yes	1.969	[1.778,	2.181]	<0.001
RxHCC		2.426	[2.189,	2.688]	<0.001
Facility level		2.120	[2.100,	2.000]	10.001
% age 65 and older		0.999	[0.987,	1.011]	0.891
Age median		1.071	[1.041,	1.102]	<0.001
Sex ratio		0.846	[0.762,	0.940]	0.002
% White, non-Hispanic		1.004	[0.993,	1.015]	0.519
% Black or African Ame	rican non-Hispanic	1.003	[0.991,	1.015]	0.612
% Hispanic	mean, non mapanie	1.003	[0.991,	1.015]	0.654
% married		0.982	[0.970,	0.993]	0.001
% never married		1.000	[0.990,	1.011]	0.001
% widowed		0.993	[0.983,	1.003]	0.172
% separated/ divorced		0.997	[0.985,	1.003]	0.172
Number of residents		1.000	[0.999,	1.000]	0.969
% residents on Medicai	d	1.016	[1.013,	1.020]	<0.001
Chain Ownership	No	Ref.	[1.013,	1.020]	<0.001
Chain Ownership	Yes	1.000	[0.999,	1.001]	0.578
Profit	No	Ref.	[0.999,	1.001]	0.576
FIOIIL	Yes	1.000	[0.998,	1.001]	0.863
ZCTA level	1 65	1.000	[0.996,	1.001]	0.003
% age 65 and older		0.963	[0.938,	0.987]	0.003
Age median		1.026	[1.000,	1.052]	0.003
Sex ratio		0.996	[0.990,	1.002]	0.031
		1.002		•	
% owner housing		1.002	[0.996,	1.007] 1.020]	0.549
% married		0.997	[0.995,	•	0.230
% high school or higher		1.000		1.007]	0.603 0.002
Median household inco	IIIC		[1.000,	•	
% White alone	rican alana	0.996	[0.990,	1.003]	0.258
% Black or African Ame	encan alone	0.991	[0.982,	0.999]	0.034
% Hispanic		0.994	[0.988,	1.000]	0.053
Total population (n)		Def	1		
<1,000		Ref.	[0.400	0.0001	0.047
1,000-9,999		1.073	[0.130,	8.832]	0.947

≥10,000		0.985	[0.121,	8.025]	0.989
Area					
Urban		0.847	[0.733,	0.979]	0.025
Rural		Ref.			
Census division					
New England		Ref.			
Middle Atlantic		1.101	[0.824,	1.472]	0.515
East North Central		1.510	[1.121,	2.033]	0.007
West North Central		1.719	[1.044,	2.833]	0.033
South Atlantic		1.249	[0.924,	1.688]	0.148
East South Central		1.666	[0.667,	4.163]	0.275
West South Central		1.899	[1.400,	2.575]	<0.001
Mountain		1.365	[0.992,	1.878]	0.056
Pacific		1.381	[1.030,	1.854]	0.031
Elderly single-	Q1: <30.77%	Ref.			
occupancy household	Q2: 30.77%-36.69%	1.036	[0.873,	1.231]	0.684
(%)	Q3: 36.70%-42.39%	1.120	[0.925,	1.356]	0.247
	Q4: >42.39%	1.112	[0.885,	1.396]	0.362
Constant		0.000	[0.000,	0.001]	<0.001