Supplemental Online Content

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This supplemental material has been provided by the authors to give readers additional information about their work.
Table 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]       | P        |
|----------------------------------------------------|---------|----------------|----------|
| 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                                              | 40.691  | [32.081, 51.611] | <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]       | P       |
|----------------------------------------------------|--------|----------------|---------|
| 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  |
Table 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]             | P       |
|-------------------------------------------------------|--------|----------------------|---------|
| 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                                                |        |                      |         |
| 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                                                 |        |                      |         |
| Census division                                       |        |                      |         |
| New England                                           |        |                      |         |
| Middle Atlantic                                       | 0.644  | [0.481, 0.862]       | 0.003   |
| East North Central                                    | 1.373  | [1.026, 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%                                           |        |                      |         |
| 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)

|                          | OR   | [95% CI]      | P        |
|--------------------------|------|---------------|----------|
| **Individual level**     |      |               |          |
| Facility stay            |      |               |          |
| Short stayer             | Ref. |               |          |
| Long stayer              | 0.013| [0.011, 0.015]| <0.001  |
| Age                      |      |               |          |
| ≤ 64                     | Ref. |               |          |
| 65-79                    | 2.284| [2.179, 2.393]| <0.001  |
| ≥ 80                     | 4.540| [4.327, 4.763]| <0.001  |
| Sex                      |      |               |          |
| Female                   | 0.657| [0.645, 0.670]| <0.001  |
| Male                     | Ref. |               |          |
| Race                     |      |               |          |
| White, non-Hispanic      | Ref. |               |          |
| 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            | 1.111| [1.076, 1.152]| <0.001  |
| 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  |
| Depression               |      |               |          |
| No                       | Ref. |               |          |
| Yes                      | 1.758| [1.724, 1.792]| <0.001  |
| RxHCC                    | 2.308| [2.256, 2.362]| <0.001  |
| **Facility level**       |      |               |          |
| % age 65 and older       | 0.982| [0.979, 0.984]| <0.001  |
| Age median               | 1.089| [1.083, 1.096]| <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  |
| % 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  |
| Chain Ownership          |      |               |          |
| No                       | Ref. |               |          |
| Yes                      | 1.000| [1.000, 1.001]| 0.003   |
| Profit                   |      |               |          |
| No                       | Ref. |               |          |
| Yes                      | 1.001| [1.000, 1.001]| <0.001  |
| **ZCTA level**           |      |               |          |
| % 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  |
| % owner housing          | 1.004| [1.003, 1.006]| <0.001  |
| % 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   |
| % Black or African American alone | 1.000 | [0.997, 1.002] | 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-occupancy household (%) |       |                |        |
| Q1: <30.77%                 | Ref.  |                |        |
| 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]    | P     |
|----------------------------------------|------------|--------|-------------|-------|
| 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% CI]            | P      |
|--------------------------|-------|---------------------|--------|
| **Individual level**     |       |                     |        |
| Facility stay            |       |                     |        |
| Short stayer             | Ref.  |                     |        |
| Long stayer              | 0.004 | [0.003, 0.005]      | <0.001 |
| Age                      |       |                     |        |
| ≤ 64                     | Ref.  |                     |        |
| 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.  |                     |        |
| 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.  |                     |        |
| Yes                      | 1.704 | [1.666, 1.742]      | <0.001 |
| Depression               |       |                     |        |
| No                       | Ref.  |                     |        |
| Yes                      | 1.767 | [1.731, 1.804]      | <0.001 |
| RxHCC                    |       |                     |        |
|                         | 2.349 | [2.288, 2.410]      | <0.001 |
| **Facility level**       |       |                     |        |
| % 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 American, non-Hispanic | 0.998 | [0.993, 1.003] | 0.406 |
| % Hispanic               | 0.998 | [0.993, 1.004]      | 0.565  |
| % 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, 1.009]      | 0.006  |
| Number of residents      | 1.000 | [0.999, 1.000]      | <0.001 |
| % residents on Medicaid  | 1.011 | [1.011, 1.012]      | <0.001 |
| Chain Ownership          |       |                     |        |
| No                       | Ref.  |                     |        |
| Yes                      | 1.00  | [1.000, 1.001]      | 0.001  |
| Profit                   |       |                     |        |
| No                       | Ref.  |                     |        |
| Yes                      | 1.001 | [1.000, 1.001]      | 0.001  |
| **ZCTA level**           |       |                     |        |
| % 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 | [1.003, 1.007]      | <0.001 |
| % married                | 1.006 | [1.003, 1.009]      | <0.001 |
| % high school or higher  | 0.994 | [0.990, 0.997]      | <0.001 |
| Median household income   | 1.000 | [1.000, 1.000]      | <0.001 |
| % White alone            | 1.001 | [0.998, 1.004]      | 0.494  |
| % Black or African American alone | 1.000 | [0.997, 1.003] | 0.844 |
| % Hispanic               | 0.992 | [0.990, 0.994]      | <0.001 |
| Total population (n)     |       |                     |        |
| <1,000                   | Ref.  |                     |        |
| 1,000-9,999              | 0.924 | [0.758, 1.125]      | 0.432  |
| Area            | B   | 95% CI      | p     |
|-----------------|-----|-------------|-------|
| Urban           | 0.854 | [0.824, 0.886] | <0.001 |
| Rural           | Ref. |             |       |

| Census division | B   | 95% CI      | p     |
|-----------------|-----|-------------|-------|
| 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-occupancy household (%) | B   | 95% CI      | p     |
|---------------------------------------|-----|-------------|-------|
| Q1: <30.77%                           | Ref. |             |       |
| 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

| Individual level       | OR     | [95% CI]       | P       |
|------------------------|--------|----------------|---------|
| 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.   |                |         |
| Yes                    | 1.601  | [1.496, 1.713] | <0.001 |
| RxHCC                  |        |                |         |
|                         | 2.079  | [1.957, 2.209] | <0.001 |
| Facility level         |        |                |         |
| % 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-Hispanic  | 0.999  | [0.987, 1.011] | 0.878  |
| % Black or African American, non-Hispanic | 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 Medicaid| 1.020  | [1.018, 1.022] | <0.001 |
| Chain Ownership        |        |                |         |
| No                     | Ref.   |                |         |
| Yes                    | 1.000  | [0.999, 1.001] | 0.906  |
| Profit                 |        |                |         |
| No                     | Ref.   |                |         |
| Yes                    | 1.002  | [1.001, 1.002] | 0.001  |
| ZCTA level             |        |                |         |
| % 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 income| 1.000  | [1.000, 1.000] | 0.011  |
| % White alone          | 0.996  | [0.991, 1.002] | 0.229  |
| % Black or African American alone | 0.997 | [0.991, 1.004] | 0.400 |
| % Hispanic             | 0.990  | [0.984, 0.995] | <0.001 |
| Total population (n)   |        |                |         |
| <1,000                 | Ref.   |                |         |
| 1,000-9,999            | 0.832  | [0.443, 1.561] | 0.566  |
| Area               | B  |    |     |      |
|--------------------|----|----|-----|------|
| ≥10,000            | 0.731 | [0.391, 1.367] | 0.327 |
| Urban              | 0.910 | [0.823, 1.005] | 0.064 |
| Rural              | Ref. |

| Census division                          | B  |    |     |      |
|------------------------------------------|----|----|-----|------|
| 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-occupancy household (%) | B  |    |     |      |
|---------------------------------------|----|----|-----|------|
| Q1: ≤30.77%                            | 1.314 | [1.135, 1.521] | <0.001 |
| Q2: 30.77%-36.69%                      | 1.363 | [1.174, 1.582] | <0.001 |
| Q3: 36.70%-42.39%                      | 1.406 | [1.192, 1.660] | <0.001 |
| Q4: >42.39%                            | 1.431 | [1.104, 1.855] | <0.001 |

| Constant | B  |    |     |      |
|----------|----|----|-----|------|
|          | 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% CI]      | P     |
|--------------------------------|-------|---------------|-------|
| **Individual level**           |       |               |       |
| Facility stay                  |       |               |       |
| Short stayer                   | Ref.  |               |       |
| Long stayer                    | 1.00  |               |       |
| 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.  |               |       |
| Yes                            | 1.171 | [1.053, 1.303] | 0.004 |
| Depression                     |       |               |       |
| No                             | Ref.  |               |       |
| Yes                            | 1.969 | [1.778, 2.181] | <0.001|
| RxHCC                          | 2.426 | [2.189, 2.688] | <0.001|
| **Facility level**             |       |               |       |
| % 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 American, non-Hispanic | 1.003 | [0.991, 1.015] | 0.612 |
| % Hispanic                     | 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] | 0.94  |
| % widowed                      | 0.993 | [0.983, 1.003] | 0.172 |
| % separated/divorced           | 0.997 | [0.985, 1.008] | 0.590 |
| Number of residents            | 1.000 | [0.999, 1.001] | 0.969 |
| % residents on Medicaid        | 1.016 | [1.013, 1.020] | <0.001|
| Chain Ownership                |       |               |       |
| No                             | Ref.  |               |       |
| Yes                            | 1.000 | [0.999, 1.001] | 0.578 |
| Profit                         |       |               |       |
| No                             | Ref.  |               |       |
| Yes                            | 1.000 | [0.998, 1.001] | 0.863 |
| **ZCTA level**                 |       |               |       |
| % age 65 and older             | 0.963 | [0.938, 0.987] | 0.003 |
| Age median                     | 1.026 | [1.000, 1.052] | 0.051 |
| Sex ratio                      | 0.996 | [0.990, 1.002] | 0.172 |
| % owner housing                | 1.002 | [0.996, 1.007] | 0.549 |
| % married                      | 1.008 | [0.995, 1.020] | 0.230 |
| % high school or higher        | 0.997 | [0.988, 1.007] | 0.603 |
| Median household income        | 1.000 | [1.000, 1.000] | 0.002 |
| % White alone                  | 0.996 | [0.990, 1.003] | 0.258 |
| % Black or African American, alone | 0.991 | [0.982, 0.999] | 0.034 |
| % Hispanic                     | 0.994 | [0.988, 1.000] | 0.053 |
| Total population (n)           |       |               |       |
| <1,000                         | Ref.  |               |       |
| 1,000-9,999                    | 1.073 | [0.130, 8.832] | 0.947 |
|                                               | Estimate | [Lower, Upper] | p-Value |
|-----------------------------------------------|----------|---------------|---------|
| ≥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-occupancy household (%)        |          |               |         |
| Q1: <30.77%                                   | Ref.     |               |         |
| 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  |