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| **Table S1. Predictors of Location of Medical Care Access during Hurricane Harvey, 2017, Houston and Metropolitan Dallas—Fort Worth, TX by ZCTA** |  |  |  |  |  |
|   |  Short Time Period (August 24 - September 8, 2017)  |  Long Time Period (August 24-September 29, 2017)  |  |
|   | Model 1 | Model 2 | Model 3 | Model 3 STE | Model 1 | Model 2 | Model 3 | Model 3 STE |  |
| Variable | Coeff | *P* | Coeff | *P* | Coeff | *P* | Coeff | *P* | Coeff | *P* | Coeff | *P* | Coeff | *P* | Coeff | *P* |  |
| Spatial Lag (rho) | 0.780 | 0.000 | 0.769 | 0.000 | 0.757 | 0.000 | 0.757 | 0.000 | 0.745 | 0.000 | 0.730 | 0.000 | 0.718 | 0.000 | 0.719 | 0.000 |  |
| Intercept | 0.081 | 0.002 | 0.073 | 0.006 | 0.057 | 0.040 | 0.040 | 0.162 | 0.088 | 0.002 | 0.077 | 0.008 | 0.057 | 0.059 | 0.054 | 0.084 |  |
| Theme 1: Socioeconomic Status | 0.143 | 0.012 | 0.150 | 0.008 | 0.171 | 0.003 | 0.140 | 0.017 | 0.150 | 0.014 | 0.160 | 0.009 | 0.185 | 0.003 | 0.181 | 0.003 |  |
| Theme 2: Household Composition & Disability | -0.101 | 0.020 | -0.084 | 0.061 | -0.085 | 0.057 | -0.084 | 0.059 | -0.121 | 0.009 | -0.095 | 0.046 | -0.097 | 0.043 | -0.097 | 0.042 |  |
| Theme 3: Minority Status & Language | -0.002 | 0.969 | -0.035 | 0.462 | -0.053 | 0.275 | -0.014 | 0.784 | 0.000 | 0.993 | -0.049 | 0.335 | -0.070 | 0.177 | -0.065 | 0.221 |  |
| Theme 4: Housing Type & Transportation | -0.022 | 0.557 | -0.020 | 0.582 | -0.019 | 0.599 | -0.014 | 0.700 | 0.004 | 0.917 | 0.007 | 0.866 | 0.008 | 0.833 | 0.009 | 0.817 |  |
| Population Density per Square Mile |  |  | 0.000 | 0.065 | 0.000 | 0.019 | 0.000 | 0.008 |  |  | 0.000 | 0.012 | 0.000 | 0.002 | 0.000 | 0.002 |  |
| Flooding Inundation |  |  |  |  | 0.156 | 0.016 | 0.151 | 0.019 |  |  |  |  | 0.188 | 0.007 | 0.189 | 0.006 |  |
| Standard Error from EBK |  |  |  |  |  |  | 0.002 | 0.018 |  |  |  |  |  |  | 0.000 | 0.728 |  |
| N Obs | 652.000 |  | 652.000 |  | 652.000 |  | 652.000 |  | 652.000 |  | 652.000 |  | 652.000 |  | 652.000 |  |  |
| Log Likelihood lag model | 13.707 |  | -22.594 |  | 18.181 |  | 21.004 |  | -25.743 |  | -22.594 |  | -18.938 |  | -18.878 |  |  |
| AIC | -13.414 |  | -14.693 |  | -18.362 |  | -22.009 |  | 65.487 |  | 61.188 |  | 55.876 |  | 57.755 |  |  |
| LM test for residual autocorrelation | 81.775 | 0.000 | 116.340 | 0.000 | 80.671 | 0.000 | 72.557 | 0.000 | 121.980 | 0.000 | 116.340 | 0.000 | 69.748 | 0.000 | 113.040 | 0.000 |  |
| Moran's I test for spatial autocorrelation | 25.193 | 0.000 | 24.269 | 0.000 | 22.593 | 0.000 | 22.647 | 0.000 | 23.621 | 0.000 | 22.985 | 0.000 | 21.729 | 0.000 | 21.727 | 0.000 |  |
| LM test for spatial error model | 625.300 | 0.000 | 576.730 | 0.000 | 576.730 | 0.000 | 495.140 | 0.000 | 549.270 | 0.000 | 516.850 | 0.000 | 457.730 | 0.000 | 455.720 | 0.000 |  |
| LM test for spatial lag model | 676.480 | 0.000 | 622.120 | 0.000 | 622.120 | 0.000 | 571.570 | 0.000 | 594.640 | 0.000 | 553.030 | 0.000 | 518.870 | 0.000 | 517.030 | 0.000 |  |
| Robust LM test for spatial error model | 0.121 | 0.728 | 0.000 | 0.984 | 0.000 | 0.984 | 0.709 | 0.400 | 0.025 | 0.873 | 0.130 | 0.719 | 0.511 | 0.475 | 0.626 | 0.429 |  |
| Robust LM test for spatial lag model | 51.300 | 0.000 | 45.396 | 0.000 | 45.396 | 0.000 | 77.139 | 0.000 | 45.389 | 0.000 | 36.308 | 0.000 | 61.647 | 0.411 | 61.932 | 0.000 |  |
| LM = LaGrange Multiplier test statistic; EBK = Empirical Bayesian Kriging |   |   |   |   |   |   |   |   |   |   |   |   |   |  |