

Tables testing

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Table 1: County-level allcause mortality rate (2000, 2010, 2015)

	1	2	3	4	5	6	7
Intercept	0	0	0	0	0	0	0
Male	-	-	-	-	-	-	-
Female	0.59	0.59	0.59	0.65	0.59	0.63	0.61
2000	-	-	-	-	-	-	-
2010	0.9	0.97	0.95	0.94	0.91	1.02	0.94
2015	0.93	1.06	0.97	0.97	0.95	1.14	1.04
Age group							
Age 25-29	-	-	-	-	-	-	-
Age 30-34	1.19	1.19	1.19	1.19	1.19	1.19	1.19
Age 35-39	1.55	1.56	1.55	1.55	1.56	1.56	1.56
Age 40-44	2.2	2.21	2.21	2.2	2.21	2.22	2.22
Age 45-49	3.35	3.35	3.35	3.34	3.36	3.36	3.37
Age 50-54	5.07	5.08	5.08	5.06	5.09	5.08	5.09
Age 55-59	7.59	7.58	7.6	7.55	7.62	7.59	7.59
Age 60-64	11.07	11.02	11.09	11	11.13	11.04	11.04
Metro							
Lg central metro	-	-	-	-	-	-	-
Lg fringe metro	0.85	0.97	0.86	0.86	0.89	0.96	0.83
Md/Sm metro	1.03	0.94	1.05	0.92	1.03	0.95	0.85
Nonmetro	1.12	0.88	1.08	0.9	1.14	0.91	0.82
Region							
Pacific	-	-	-	-	-	-	-
Appalachia	1.38	1.17	1.42	0.99	1.23	1	1.07
East South Central	1.53	1.3	1.56	1.06	1.16	1.01	1.1
Mountain	1.12	1.08	1.1	1.02	1.08	0.99	1.08
West South Central	1.31	1.17	1.29	1.01	1.12	1.01	1.08
New England	1	1.06	1.15	0.94	1	1.01	1.09
South Atlantic	1.33	1.18	1.4	1.04	1.08	1.01	1.11
East North Central	1.21	1.13	1.28	0.92	1.07	0.97	1.06
West North Central	1.05	1.03	1.14	0.86	0.98	0.93	1.04
Middle Atlantic	1.11	1.05	1.15	0.95	1.08	0.97	1.06
Contextual							
HH income	-	0.87	-	-	-	0.92	0.96
College	-	0.91	-	-	-	0.97	0.96
Transfers	-	1.05	-	-	-	1.05	1.08
Manufacturing	-	0.99	-	-	-	0.98	0.99
Percent Black	-	-	-	-	1.14	1.06	1.04
Percent Hispanic	-	-	-	-	1.01	0.98	0.97
Percent Foreign-born	-	-	-	-	0.87	0.91	0.77
Obesity	-	-	-	1.11	-	1.01	1.01
Heavy drinking	-	-	-	0.97	-	0.98	0.99
Smoking	-	-	-	1.2	-	1.11	1.05
MDs/pc	-	-	0.95	-	-	1.04	0.99
Mammography	-	-	0.86	-	-	0.93	0.96
Diabetes monitoring	-	-	0.79	-	-	0.9	0.94
Moran's I	0.45	0.34	0.36	0.29	0.44	0.24	-0.01
DIC	1013124	878661	975484	870628	946986	822363	783569
RMSE	0.00131	0.00107	0.00125	0.00105	0.00119	0.00095	0.00083

Table 2: County-level cardio mortality rate (2000, 2010, 2015)

	1	2	3	4	5	6	7
Intercept	0	0	0	0	0	0	0
Male	-	-	-	-	-	-	-
Female	0.46	0.46	0.46	0.47	0.45	0.46	0.44
2000	-	-	-	-	-	-	-
2010	0.79	0.84	0.84	0.79	0.79	0.87	0.75
2015	0.79	0.9	0.84	0.79	0.8	0.94	0.78
Age group							
Age 25-29	-	-	-	-	-	-	-
Age 30-34	1.87	1.87	1.87	1.87	1.87	1.88	1.88
Age 35-39	3.44	3.45	3.44	3.44	3.46	3.46	3.46
Age 40-44	6.47	6.49	6.48	6.47	6.51	6.51	6.52
Age 45-49	11.44	11.45	11.47	11.43	11.51	11.5	11.52
Age 50-54	19.03	19.02	19.07	18.98	19.15	19.09	19.12
Age 55-59	30.07	29.97	30.13	29.94	30.27	30.1	30.13
Age 60-64	45.87	45.57	45.96	45.6	46.25	45.84	45.87
Metro							
Lg central metro	-	-	-	-	-	-	-
Lg fringe metro	0.77	0.88	0.78	0.77	0.86	0.9	0.83
Md/Sm metro	0.96	0.86	0.98	0.85	1.02	0.92	0.86
Nonmetro	1.09	0.8	1.02	0.84	1.17	0.89	0.84
Region							
Pacific	-	-	-	-	-	-	-
Appalachia	1.54	1.27	1.61	1.04	1.37	1.08	1.24
East South Central	1.85	1.54	1.89	1.19	1.3	1.11	1.27
Mountain	1.04	1.02	1.02	0.94	1.01	0.96	1.21
West South Central	1.52	1.35	1.48	1.1	1.25	1.12	1.33
New England	0.94	1.01	1.13	0.89	0.93	0.96	1.12
South Atlantic	1.46	1.29	1.57	1.1	1.09	1.03	1.3
East North Central	1.35	1.24	1.46	1	1.18	1.05	1.23
West North Central	1.08	1.08	1.2	0.88	1.02	0.97	1.22
Middle Atlantic	1.19	1.1	1.24	0.98	1.11	0.97	1.16
Contextual							
HH income	-	0.87	-	-	-	0.94	0.97
College	-	0.89	-	-	-	0.93	0.94
Transfers	-	1.09	-	-	-	1.05	1.1
Manufacturing	-	1.01	-	-	-	1	1.01
Percent Black	-	-	-	-	1.21	1.11	1.07
Percent Hispanic	-	-	-	-	1.02	0.99	0.97
Percent Foreign-born	-	-	-	-	0.89	0.95	0.85
Obesity	-	-	-	1.18	-	1.04	1.07
Heavy drinking	-	-	-	0.91	-	0.95	0.96
Smoking	-	-	-	1.21	-	1.09	1.03
MDs/pc	-	-	0.93	-	-	1.03	1.01
Mammography	-	-	0.82	-	-	0.92	0.98
Diabetes monitoring	-	-	0.75	-	-	0.89	0.99
Moran's I	0.49	0.36	0.38	0.32	0.41	0.22	-0.04
DIC	575562	527176	559869	526401	545772	507178	487777
RMSE	0.00053	0.00046	0.00051	0.00046	0.00049	0.00043	0.00038

Table 3: County-level lung mortality rate (2000, 2010, 2015)

	1	2	3	4	5	6	7
Intercept	0	0	0	0	0	0	0
Male	-	-	-	-	-	-	-
Female	0.74	0.74	0.75	0.91	0.74	0.83	0.83
2000	-	-	-	-	-	-	-
2010	0.8	0.91	0.82	0.91	0.82	0.98	0.87
2015	0.75	0.9	0.76	0.89	0.8	1.04	0.9
Age group							
Age 25-29	-	-	-	-	-	-	-
Age 30-34	1.55	1.55	1.54	1.55	1.55	1.55	1.55
Age 35-39	2.97	2.98	2.97	2.97	2.97	2.97	2.98
Age 40-44	7.06	7.06	7.06	7.06	7.06	7.06	7.08
Age 45-49	16.63	16.61	16.63	16.59	16.59	16.58	16.64
Age 50-54	37.28	37.17	37.27	37.09	37.15	37.02	37.17
Age 55-59	73.44	73.04	73.41	72.85	73.13	72.64	72.96
Age 60-64	126.73	125.62	126.65	125.32	126.25	124.86	125.45
Metro							
Lg central metro	-	-	-	-	-	-	-
Lg fringe metro	0.96	1.05	0.93	0.97	0.88	0.96	0.87
Md/Sm metro	1.18	1.04	1.16	1.03	1.03	0.94	0.87
Nonmetro	1.35	0.99	1.22	1.02	1.15	0.89	0.81
Region							
Pacific	-	-	-	-	-	-	-
Appalachia	1.71	1.41	1.73	1.09	1.37	1.02	0.98
East South Central	1.85	1.53	1.86	1.14	1.36	1.09	0.99
Mountain	1.02	1	1.01	0.87	0.93	0.85	1
West South Central	1.41	1.23	1.37	1.01	1.21	1.03	0.96
New England	1.18	1.31	1.34	1.07	1.1	1.1	0.95
South Atlantic	1.49	1.31	1.55	1.08	1.23	1.07	1.01
East North Central	1.45	1.32	1.52	1.01	1.18	1.01	0.96
West North Central	1.28	1.24	1.33	0.97	1.05	0.97	0.95
Middle Atlantic	1.2	1.16	1.25	0.98	1.17	1.01	0.99
Contextual							
HH income	-	0.88	-	-	-	0.92	0.96
College	-	0.81	-	-	-	0.93	0.91
Transfers	-	1.01	-	-	-	1.04	1.1
Manufacturing	-	1	-	-	-	0.98	0.97
Percent Black	-	-	-	-	1.06	0.99	0.97
Percent Hispanic	-	-	-	-	0.94	0.93	0.94
Percent Foreign-born	-	-	-	-	0.79	0.87	0.72
Obesity	-	-	-	1.09	-	1	0.99
Heavy drinking	-	-	-	0.98	-	0.96	1.01
Smoking	-	-	-	1.33	-	1.18	1.12
MDs/pc	-	-	0.89	-	-	1.03	1.02
Mammography	-	-	0.88	-	-	0.92	0.97
Diabetes monitoring	-	-	0.9	-	-	0.98	0.97
Moran's I	0.48	0.42	0.43	0.26	0.47	0.23	-0.03
DIC	395940	374747	391454	365343	385050	359958	352011
RMSE	0.00034	0.00031	0.00033	3e-04	0.00032	0.00029	0.00027

Table 4: County-level drugs mortality rate (2000, 2010, 2015)

	1	2	3	4	5	6	7
Intercept	0	0	0	0	0	0	0
Male	-	-	-	-	-	-	-
Female	0.58	0.58	0.58	0.8	0.58	0.7	0.6
2000	-	-	-	-	-	-	-
2010	2	2.17	2.09	2.42	2.07	2.27	2.43
2015	2.75	3.18	2.88	3.51	2.95	3.55	4
Age group							
Age 25-29	-	-	-	-	-	-	-
Age 30-34	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Age 35-39	1.25	1.26	1.25	1.25	1.25	1.26	1.26
Age 40-44	1.31	1.32	1.32	1.31	1.31	1.32	1.32
Age 45-49	1.4	1.41	1.4	1.4	1.39	1.4	1.4
Age 50-54	1.28	1.28	1.28	1.27	1.27	1.27	1.27
Age 55-59	1.03	1.03	1.03	1.02	1.02	1.02	1.01
Age 60-64	0.62	0.62	0.62	0.61	0.62	0.61	0.61
Metro							
Lg central metro	-	-	-	-	-	-	-
Lg fringe metro	0.92	1.07	0.94	0.94	0.81	0.95	0.76
Md/Sm metro	1.01	0.96	1.04	0.89	0.86	0.81	0.73
Nonmetro	0.91	0.77	0.91	0.69	0.74	0.62	0.61
Region							
Pacific	-	-	-	-	-	-	-
Appalachia	1.73	1.5	1.79	1.14	1.43	1.03	0.68
East South Central	1.36	1.15	1.39	0.85	1.09	0.86	0.68
Mountain	1.59	1.43	1.58	1.3	1.44	1.18	1.16
West South Central	0.99	0.85	0.98	0.73	0.9	0.75	0.71
New England	1.57	1.66	1.74	1.35	1.48	1.34	1.14
South Atlantic	1.29	1.09	1.36	0.96	1.16	1	0.62
East North Central	1.37	1.33	1.44	0.93	1.14	1	0.63
West North Central	0.87	0.85	0.93	0.64	0.72	0.64	0.65
Middle Atlantic	1.17	1.09	1.2	0.99	1.19	0.98	0.64
Contextual							
HH income	-	0.85	-	-	-	0.9	0.78
College	-	0.91	-	-	-	1.06	1.23
Transfers	-	1.01	-	-	-	1.08	0.99
Manufacturing	-	0.89	-	-	-	0.88	0.89
Percent Black	-	-	-	-	1	0.88	0.84
Percent Hispanic	-	-	-	-	0.93	0.92	0.84
Percent Foreign-born	-	-	-	-	0.82	0.87	0.74
Obesity	-	-	-	1.01	-	1.03	1.06
Heavy drinking	-	-	-	1.08	-	1	0.96
Smoking	-	-	-	1.35	-	1.26	1.1
MDs/pc	-	-	1	-	-	1.14	0.94
Mammography	-	-	0.89	-	-	0.89	0.87
Diabetes monitoring	-	-	0.8	-	-	0.96	0.85
Moran's I	0.47	0.45	0.46	0.42	0.48	0.35	0.02
DIC	355318	347469	354387	341697	350819	335291	309208
RMSE	0.00019	0.00019	0.00019	0.00019	0.00019	0.00018	0.00016

Table 5: County-level suicide mortality rate (2000, 2010, 2015)

	1	2	3	4	5	6	7
Intercept	0	0	0	0	0	0	0
Male	-	-	-	-	-	-	-
Female	0.3	0.3	0.3	0.37	0.3	0.33	0.32
2000	-	-	-	-	-	-	-
2010	1.21	1.53	1.2	1.36	1.26	1.61	1.35
2015	1.31	1.69	1.3	1.48	1.41	1.91	1.51
Age group							
Age 25-29	-	-	-	-	-	-	-
Age 30-34	1.03	1.03	1.03	1.03	1.02	1.03	1.03
Age 35-39	1.11	1.12	1.11	1.11	1.11	1.11	1.11
Age 40-44	1.2	1.2	1.19	1.19	1.19	1.19	1.19
Age 45-49	1.29	1.29	1.29	1.29	1.28	1.28	1.28
Age 50-54	1.34	1.33	1.33	1.33	1.32	1.32	1.32
Age 55-59	1.28	1.28	1.28	1.27	1.26	1.26	1.25
Age 60-64	1.08	1.07	1.08	1.07	1.06	1.06	1.05
Metro							
Lg central metro	-	-	-	-	-	-	-
Lg fringe metro	1.14	1.19	1.11	1.17	0.96	1.06	0.97
Md/Sm metro	1.3	1.22	1.27	1.24	1.07	1.02	0.98
Nonmetro	1.4	1.24	1.33	1.25	1.09	0.97	0.95
Region							
Pacific	-	-	-	-	-	-	-
Appalachia	1.17	1.04	1.15	1	0.99	0.86	1
East South Central	1.14	1	1.13	0.94	1.03	0.91	0.98
Mountain	1.57	1.47	1.57	1.45	1.43	1.32	1.32
West South Central	1.09	0.96	1.09	0.97	1.07	0.98	0.96
New England	0.88	0.93	0.88	0.82	0.82	0.81	1.04
South Atlantic	1.08	0.97	1.07	0.96	1.08	0.99	0.98
East North Central	0.99	0.92	0.99	0.84	0.86	0.8	0.93
West North Central	1.08	1	1.05	0.95	0.9	0.85	0.95
Middle Atlantic	0.76	0.78	0.77	0.73	0.79	0.76	0.94
Contextual							
HH income	-	0.87	-	-	-	0.87	0.93
College	-	0.88	-	-	-	0.92	0.94
Transfers	-	0.87	-	-	-	0.94	1.01
Manufacturing	-	0.99	-	-	-	0.97	0.99
Percent Black	-	-	-	-	0.91	0.87	0.89
Percent Hispanic	-	-	-	-	0.92	0.9	0.9
Percent Foreign-born	-	-	-	-	0.84	0.88	0.85
Obesity	-	-	-	0.98	-	0.95	0.98
Heavy drinking	-	-	-	1.1	-	1.03	1.07
Smoking	-	-	-	1.17	-	1.07	1.03
MDs/pc	-	-	0.95	-	-	1.05	1.03
Mammography	-	-	1.01	-	-	0.95	0.95
Diabetes monitoring	-	-	1.06	-	-	1.02	1.01
Moran's I	0.2	0.22	0.21	0.2	0.17	0.16	0
DIC	298148	296266	297990	295109	294060	291015	287901
RMSE	0.00015	0.00015	0.00015	0.00015	0.00015	0.00015	0.00015