



**Research Brief,
Short Paper**

ISSN 2687-8844

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The Illinois Institute for Rural Affairs (IIRA) works to improve the quality of life for rural residents by partnering with public and private agencies on local development and enhancement efforts.



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Geographic Variation in Trauma Deaths in Rural Illinois: A Hypothesis about Trauma Deserts

Adee Athiyaman¹

Abstract

This paper explores the association between trauma deserts and trauma mortality using counties in rural Illinois as the geographical unit of analysis. Results of data analysis suggest the typical distance to a trauma center in rural Illinois is 14.5 miles. Further statistical analysis indicates that trauma deserts cannot be defined using the commonly prescribed “five-mile radial distance to the trauma center” criterion. A salient outcome of the research is the listing of distances to nearest trauma center from rural zipcodes.

Introduction

Traumatic injury, physical injuries of sudden onset and severity which require immediate medical attention, is a leading cause of death in Illinois (Table 1)². Increases in out-of-hospital time is associated with worse outcomes in trauma; recent research indicates that a one-minute increase in ‘pre-hospital time’³ increases mortality by 2%⁴. Population outside of a five-mile radial distance of a trauma center⁵ is considered to be living in a trauma desert. This paper explores the relationship between trauma deserts and trauma deaths using nonmetro Illinois counties as the unit of analysis⁶.

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² <https://www.cdc.gov/injury/wisqars/LeadingCauses.html>.

³ Pre-hospital time is the time from ambulance dispatch to arrival at the hospital; research indicates that pre-hospital time should be less than 40 minutes; see: Gauss T, Ageron F, Devaud M, et al. Association of Prehospital Time to In-Hospital Trauma Mortality in a Physician-Staffed Emergency Medicine System. *JAMA Surg.* 2019;154(12):1117–1124.

⁴ Ahmed A.H. Nasser, Charlie Nederpelt, Majed El Hechi, April Mendoza, Noelle Saillant, Peter Fagenholz, George Velmahos, Haytham M.A. Kaafarani, (2020). Every minute counts: The impact of pre-hospital response time and scene time on mortality of penetrating trauma patients. *The American Journal of Surgery*, 220(1), 240-244.

⁵ Crandall, M., Sharp, D., Unger, E., Straus, D., Brasel, K., Hsia, R., & Esposito, T. (2013). Trauma deserts: distance from a trauma center, transport times, and mortality from gunshot wounds in Chicago. *American Journal of Public Health*, 103(6), 1103-1109.

⁶ The rural-urban continuum codes were used to identify rural counties; see, <https://www.ers.usda.gov/data-products/rural-urban-continuum-codes/>.

Table 1: Growth in Mortality, Metro versus Nonmetro

Cause of Death	Metro			Nonmetro		
	2008	2020	ACGR	2008	2020	ACGR
Accidents (unintentional injuries)	11062	21025	5.35%	1679	2451	3.15%
Alzheimer's disease	7862	11868	3.43%	1520	2092	2.66%
Cerebrovascular diseases (stroke)	15166	19273	2.00%	3101	2281	-2.56%
Chronic lower respiratory diseases	14231	13743	-0.29%	3615	3786	0.39%
Covid-19	0	47086	NA	0	7675	NA
Diabetes mellitus (diabetes)	7601	9679	2.01%	669	705	0.44%
Diseases of heart (heart disease)	74362	79827	0.59%	15597	15029	-0.31%
Influenza and pneumonia	6880	6461	-0.52%	839	453	-5.14%
Malignant neoplasms (cancer)	69299	68190	-0.13%	13834	13336	-0.31%
Nephritis, nephrotic syndrome and nephrosis (kidney disease)	6727	7113	0.46%	639	521	-1.70%
Others	79770	99307	1.83%	22574	27431	1.62%
All	292960	383572	2.25%	64067	75760	1.40%

Note: ACGR = Annual Compound Growth Rate; NA = Not Available; Source: <https://data.illinois.gov/dataset/mortality-data-2008-to-2020/resource/5345f599-fff0-43a5-a0a4-97a147b834c7>.

Conceptual Framework, Argument and Inductions

The lexical definition of desert is a sparsely populated area⁷. A 'real definition' of the concept 'trauma desert' would be a village or town in a rural county that lacks emergency medical services (EMS); for example, the village of Bardolph in McDonough County has no EMS facility⁸.

A normative prescription in trauma research is that shorter pre-hospital time

⁷ <https://www.merriam-webster.com/dictionary/desert?src=search-dict-box>.

⁸ Real definition refers to actual things or objects; see, Copi, M. (1982). *Introduction to Logic*. New York: Macmillan.

intervals increase survival, the concept of 'golden hour'⁹. Pre-hospital time is often classified into three categories: response time - the time taken from receiving the alarm to arriving on-scene; on-scene time - time taken from arriving on-scene to leaving; and transport time - the time between leaving the scene and arriving at a specialized management center¹⁰.

⁹ Abhilash, K. P. P., & Sivanandan, A. (2020). Early management of trauma: The golden hour. *Current Medical Issues*, 18(1), 36-39.

¹⁰ Cabral, E. L. D. S., Castro, W. R. S., Florentino, D. R. D. M., Viana, D. D. A., Costa Junior, J. F. D., Souza, R. P. D., ... & Medeiros, A. C. (2018). Response time in the emergency services. Systematic review. *Acta cirurgica brasileira*, 33, 1110-1121.

Table 2 shows differences in pre-hospital time between the metro and the nonmetro geographies, data were abstracted from a systematic literature review.

In this research, the interest is on distance between population centers, zipcode areas, to the nearest emergency management facility.

Table 2: Pre-Hospital Times for Metro and Nonmetro Geographies

Study	Pre-Hospital Time in Minutes, Average Values		Conclusion
	Metro	Nonmetro	
Gonzalez et al 2009 ¹¹	24.8 (arithmetic average)	42 (arithmetic average)	Statistical tests favor metro
Alanazy et al 2020 ¹²	43.0 (arithmetic average)	62 (arithmetic average)	Statistical tests favor metro
Al-Thani et al 2021 ¹³	64, median; IQR: 49-80	87, median; IQR: 67-112	Statistical tests favor metro

Data from Table 2 make it extremely probable the generalization:

All sample observations in Table 2 have data that favor metro over nonmetro for lower pre-hospital times.
 ∴ Pre-hospital times are higher in the nonmetro.

This induction combined with the “golden hour” principle imply that trauma mortality will be higher in trauma deserts.

Methodology

The list of nonmetro counties and their population centers were obtained from the USA Zipcode database¹⁴. The list of trauma centers in the nonmetro were sourced from the Illinois Department of Public health¹⁵. To compute distances from the population centers such as towns and villages to the nearest trauma center, the “openroute” web application was used¹⁶.

To assess the degree of clustering of locations, or population centers, with EMS, the following statistics were computed:

1) Average distance: $\bar{d} = \sum di \div N$

where, di is the distance of observation i to its nearest neighbor, EMS; N = Number of observations or population centers in the county.

¹¹ Gonzalez, R. P., Cummings, G. R., Phelan, H. A., Mulekar, M. S., & Rodning, C. B. (2009). Does increased emergency medical services prehospital time affect patient mortality in rural motor vehicle crashes? A statewide analysis. *The American journal of surgery*, 197(1), 30-34.

¹² Alanazy, A. R. M., Wark, S., Fraser, J., & Nagle, A. (2020). A comparison of pre-hospital emergency medical services’ response and duration times in urban versus rural areas of Saudi Arabia. *Australasian Journal of Paramedicine*, 17, 1-7.

¹³ Al-Thani, H., Mekkodathil, A., Hertelendy, A. J., Howland, I., Frazier, T., & El-Menyar, A. (2021). Emergency medical services (EMS) transportation of trauma patients by geographic locations and in-hospital outcomes: experience from Qatar. *International journal of environmental research and public health*, 18(8), 4016.

¹⁴<https://pypi.org/project/uszipcode/>.

¹⁵<https://dph.illinois.gov/topics-services/emergency-preparedness-response/ems/trauma-program/trauma-centers-by-region.html>.

¹⁶See, <https://openrouteservice.org/>; client API was used to build a time-distance matrix.

2) Expected distance:

$$\bar{d}e = \frac{1}{2\sqrt{\lambda}}$$

where, λ = number of points, population centers, in the county; d (bar) e is the expected pattern.

3) Variability of distance:

$$v(d) = \frac{4 - \pi}{4 \lambda \pi}$$

where, $v(d)$ = variance of d , $\pi = 22/7$; λ and N were defined in equations 2 and 1 respectively.

The argument in the “conceptual ...” section, specifically the conclusion of the argument that trauma mortality will be

higher in trauma deserts, warrants the testing of the hypothesis that higher d (bar) and $v(d)$ will be associated with higher trauma deaths.

Findings

Sixteen of the 62 nonmetro counties had population centers that had their nearest EMS in adjacent counties (Table 3); for example, the population in zipcode 62353, Brown County, has their nearest EMS at Culbertson Memorial Hospital, Rushville, Schuyler County (Figure 1). Appendix 1 lists distances to EMS from all rural zipcodes.

Figure 1: Nearest EMS for Zipcode 62353, Brown County: Culbertson Memorial Hospital, Rushville, Schuyler County.

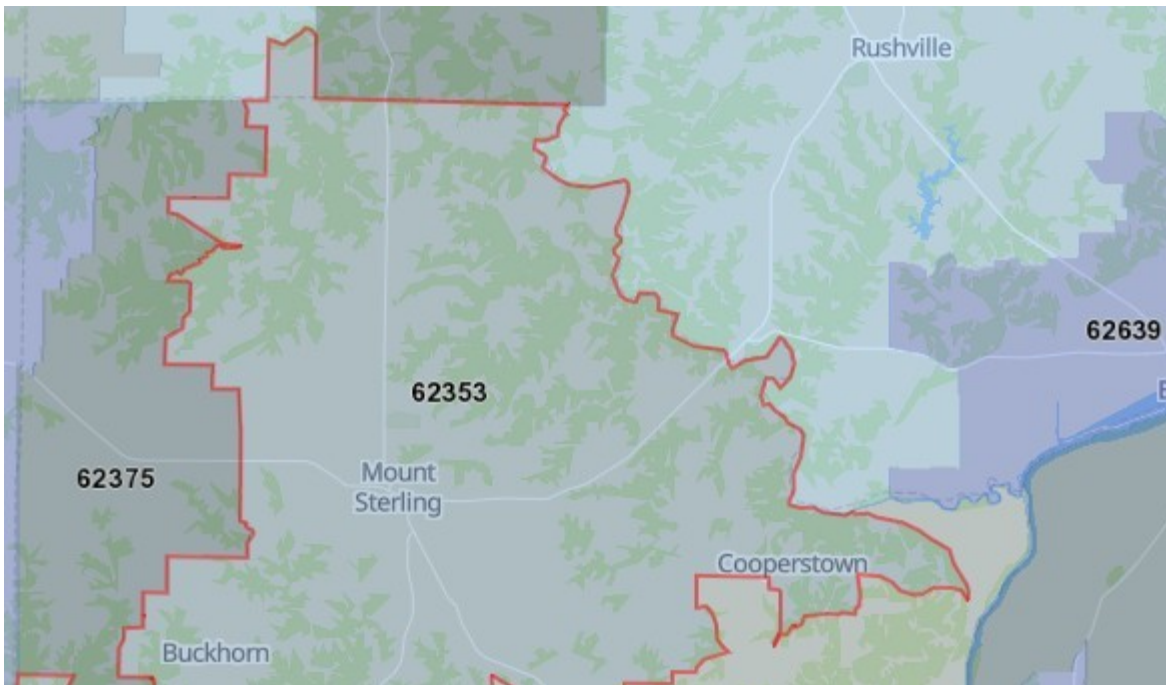


Table 3: Population Centers and their Nearest EMS

Population Centers, Zipcodes	Zipcode, County Location	EMS	EMS, County Location
62353, 62375,62378	Brown County	Culbertson Memorial Hospital Rushville	Schuyler County
61046, 61078	Carroll County	FHN Memorial Hospital	Stephenson County
61014, 61051, 61053, 61074, 61285	Carroll County	Morrison Community Hospital	Whiteside County
62618, 62622	Cass County	Culbertson Memorial Hospital Rushville	Schuyler County
62611, 62612, 62691	Cass County	Jacksonville Memorial Hospital	Morgan County
62627	Cass County	Mason District Hospital	Mason County
62477	Clark County	Crawford Memorial Hospital	Crawford County
62420, 62423, 62441, 62442	Clark County	Paris Community Hospital	Edgar County
62474	Clark County	Sarah Bush Lincoln Health Center Mattoon	Coles County
62428, 62445, 62447, 62468, 62469	Cumberland County	Sarah Bush Lincoln Health Center Mattoon	Coles County
61956	Douglas County	Carle Foundation Hospital	Champaign County
61942	Douglas County	Paris Community Hospital	Edgar County
61910, 61913, 61919, 61930, 61941, 61910, 61953	Douglas County	Sarah Bush Lincoln Health Center Mattoon	Coles County
62476, 62806, 62815, 62818, 62833, 62844	Edwards County	Wabash General Hospital Mt Carmel	Wabash County
62867, 62871, 62934, 62954, 62979, 62984	Gallatin County	Harrisburg Medical Center	Saline County
61454	Henderson County	Memorial Hospital Carthage	Hancock County
61418, 61425, 61437, 61460, 61469, 61471, 61476, 61480	Henderson County	OSF Holy Family Medical Center Monmouth	Warren County
62448, 62459, 62475	Jasper County	Carle Richland Memorial Hospital	Richland County
62480, 62481	Jasper County	Crawford Memorial Hospital	Crawford County
62432, 62436, 62479	Jasper County	HSHS St. Anthony's Memorial Hospital	Effingham County
62939, 62967	Johnson County	Herrin Hospital	Williamson County
62943, 62972, 62985, 62995	Johnson County	Massac Memorial Hospital	Massac County
62909, 62912, 62923	Johnson County	Union County Hospital Anna	Union County
61928, 61951	Moultrie County	HSHS Good Shepherd Hospital	Shelby County

Population Centers, Zipcodes	Zipcode, County Location	EMS	EMS, County Location
61911, 61914, 61937	Moultrie County	HSHS St. Mary's Hospital	Macon County
62938, 62947	Pope County	Hardin County General Hospital & Clinic	Hardin County
62928, 62987	Pope County	Harrisburg Medical Center	Saline County
62941	Pulaski County	Massac Memorial Hospital	Massac County
62963, 62964, 62970, 62976, 62992, 62996	Pulaski County	Union County Hospital Anna	Union County
61326, 61327, 61335, 61336, 61340, 61363, 61560	Putnam County	OSF Saint Clare Medical Center Princeton	Bureau County
62621, 62694	Scott County	Jacksonville Memorial Hospital	Morgan County
62610, 62663	Scott County	Thomas H Boyd Memorial Hospital	Greene County
62820, 62821, 62827, 62835, 62862	White County	Hamilton Memorial Hospital District	Hamilton County
62861, 62869	White County	Harrisburg Medical Center	Saline County

Typically, one has to travel at least 14.5 miles to get to the nearest EMS. Saline County has the lowest distance and Douglas County has the largest, almost 28 miles from the population centers in the county to the EMS.

To test the hypothesis relating variability in the distance measure to trauma mortality numbers, descriptive analyses were performed; four variables were

examined for associations: mean distance from the population center to EMS, variability in the distance measure, ratio of observed mean distance to expected distance, and trauma mortality. Figure 3 shows the univariate and bivariate plots of the variables. The univariate plots do not show marked deviations from normality; this suggests that we can proceed with hypothesis testing.

Figure 3: Plots of Variables

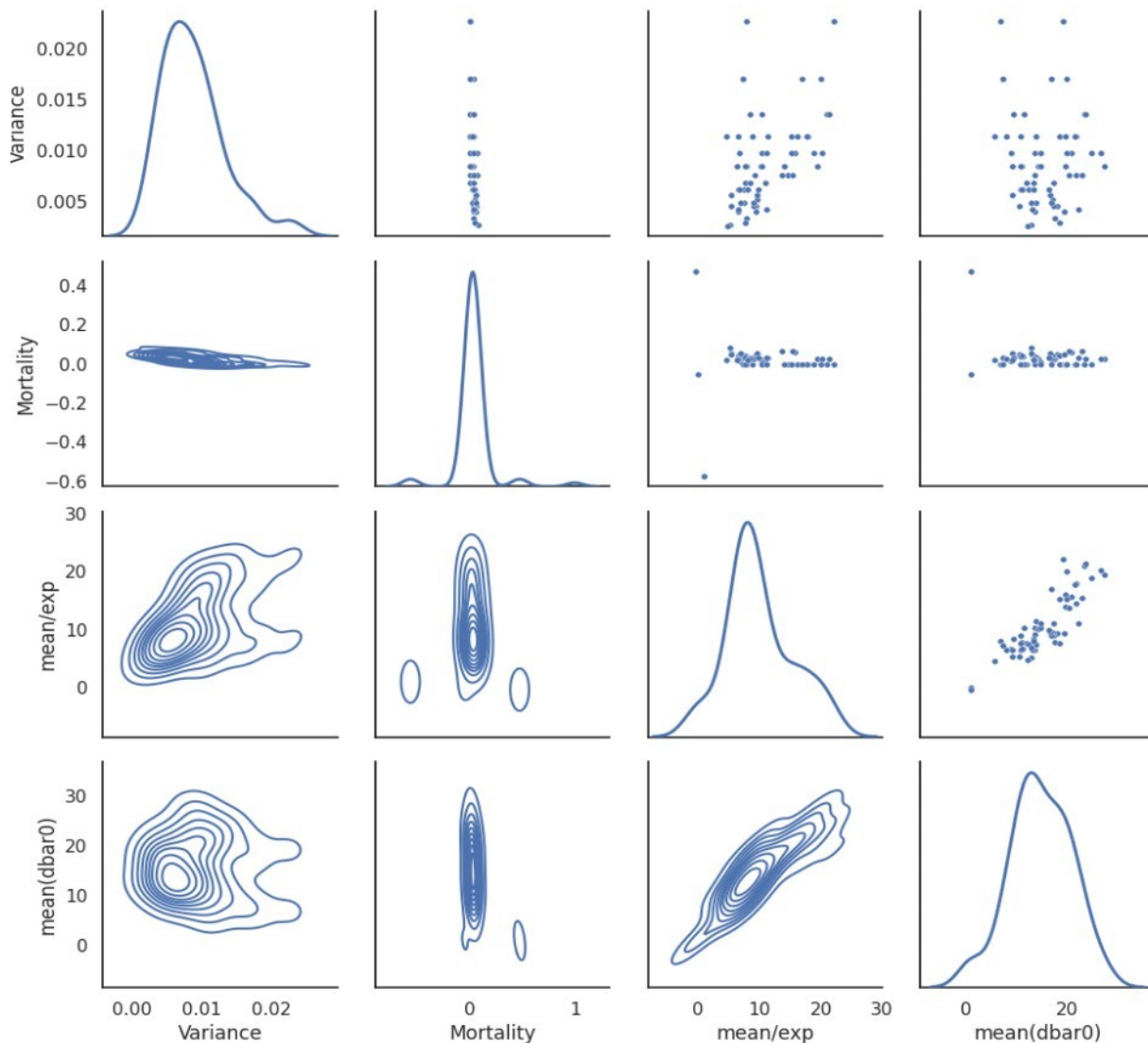
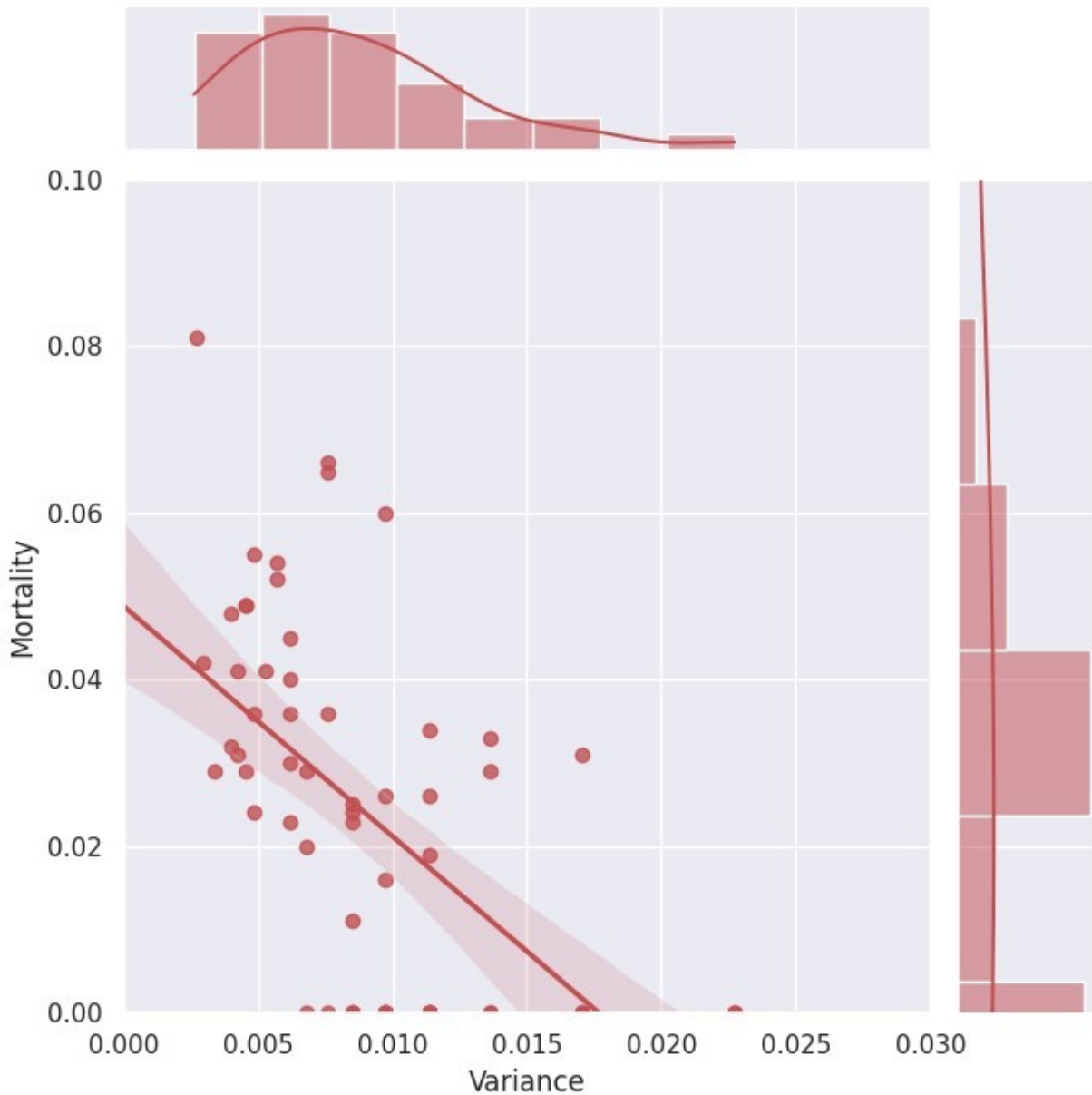


Figure 4 is an expanded view of the scatter-plot between the variables 'variability in distance' and trauma mortality; the zero-order correlation is -0.56. It suggests that larger variability in travel distances from population centers to EMS does not result in higher trauma

deaths. One reason for the negative correlation could be that emergency vehicles with sirens travel faster and cover distances more rapidly, so travel distance to the EMS is not a salient determinant of trauma death.

Figure 4: Scatter-Plot, Variability in Travel Distance to EMS and Trauma Mortality



The outliers in Figure 4 include Bureau County with trauma mortality around 8%; Jo Daviess with 6.6% trauma deaths, and Carroll County with 6% trauma mortality. Further analysis of deaths by sex and race of the diseased failed to explain the high mortality rates.

Summary and Conclusion

This paper explores the association between trauma deserts and trauma mortality using counties in rural Illinois as the geographical unit of analysis; population outside of a five-mile radial distance of a trauma center or EMS is considered to be living in a trauma desert. Distances between population centers in the counties, indicated by zip codes, and nearest EMS were analyzed.

Data analysis indicates that:

- 1) twenty six percent of the nonmetro counties had population centers with the nearest EMS in adjacent counties;
- 2) the typical distance to the EMS is 14.5miles; Saline County has the lowest distance and Douglas County registered the highest average distance from the county's population centers to the EMS, 28 miles, and

3) the hypothesis relating trauma desert to trauma deaths failed to gain empirical support.

The findings above lead to the conclusion that trauma deserts cannot be defined using the "five-mile radial distance" to the EMS. Manipulable measures such as pre-hospital travel time needs to be used to explore the determinants of trauma deaths.

Appendix 1: Travel Distances to EMS by Zipcodes

County	Zipcode	Trauma Center/EMS	Driving distance, miles
Adams County	62301	Blessing Hospital at 11th Street	1.47
Adams County	62305	Blessing Hospital at 11th Street	3.60
Adams County	62320	Blessing Hospital at 11th Street	24.29
Adams County	62324	Blessing Hospital at 11th Street	29.97
Adams County	62325	Blessing Hospital at 11th Street	18.71
Adams County	62338	Blessing Hospital at 11th Street	12.98
Adams County	62339	Blessing Hospital at 11th Street	31.63
Adams County	62346	Blessing Hospital at 11th Street	33.21
Adams County	62347	Blessing Hospital at 11th Street	18.06
Adams County	62349	Blessing Hospital at 11th Street	21.50
Adams County	62351	Blessing Hospital at 11th Street	16.21
Adams County	62359	Blessing Hospital at 11th Street	16.46
Adams County	62360	Blessing Hospital at 11th Street	14.41
Adams County	62365	Blessing Hospital at 11th Street	18.21
Adams County	62376	Blessing Hospital at 11th Street	11.26
Brown County	62353	Culbertson Memorial Hospital Rushville	16.31
Brown County	62375	Culbertson Memorial Hospital Rushville	22.07
Brown County	62378	Culbertson Memorial Hospital Rushville	19.22
Bureau County	61283	OSF Saint Clare Medical Center Princeton	36.70
Bureau County	61312	St. Margaret's Health - Spring Valley	11.94
Bureau County	61314	OSF Saint Clare Medical Center Princeton	15.92
Bureau County	61315	OSF Saint Clare Medical Center Princeton	9.19
Bureau County	61317	St. Margaret's Health - Spring Valley	8.67
Bureau County	61320	St. Margaret's Health - Spring Valley	3.53
Bureau County	61322	St. Margaret's Health - Spring Valley	7.47
Bureau County	61323	OSF Saint Clare Medical Center Princeton	6.47
Bureau County	61328	OSF Saint Clare Medical Center Princeton	10.37
Bureau County	61329	St. Margaret's Health - Spring Valley	5.22
Bureau County	61330	OSF Saint Clare Medical Center Princeton	16.45
Bureau County	61337	OSF Saint Clare Medical Center Princeton	10.61
Bureau County	61338	OSF Saint Clare Medical Center Princeton	19.72
Bureau County	61344	OSF Saint Clare Medical Center Princeton	20.46
Bureau County	61345	OSF Saint Clare Medical Center Princeton	22.33
Bureau County	61346	OSF Saint Clare Medical Center Princeton	23.78
Bureau County	61349	OSF Saint Clare Medical Center Princeton	14.18
Bureau County	61356	OSF Saint Clare Medical Center Princeton	0.45
Bureau County	61359	St. Margaret's Health - Spring Valley	6.60
Bureau County	61361	OSF Saint Clare Medical Center Princeton	16.05
Bureau County	61362	St. Margaret's Health - Spring Valley	2.18
Bureau County	61368	OSF Saint Clare Medical Center Princeton	7.94
Bureau County	61374	OSF Saint Clare Medical Center Princeton	19.32
Bureau County	61376	OSF Saint Clare Medical Center Princeton	21.08
Bureau County	61379	OSF Saint Clare Medical Center Princeton	7.28

Carroll County	61014 Morrison Community Hospital	17.65
Carroll County	61046 FHN Memorial Hospital	24.01
Carroll County	61051 Morrison Community Hospital	20.51
Carroll County	61053 Morrison Community Hospital	21.41
Carroll County	61074 Morrison Community Hospital	28.11
Carroll County	61078 FHN Memorial Hospital	16.07
Carroll County	61285 Morrison Community Hospital	17.83
Cass County	62611 Jacksonville Memorial Hospital	14.24
Cass County	62612 Jacksonville Memorial Hospital	29.70
Cass County	62618 Culbertson Memorial Hospital Rushville	13.45
Cass County	62622 Culbertson Memorial Hospital Rushville	17.36
Cass County	62627 Mason District Hospital	20.72
Cass County	62691 Jacksonville Memorial Hospital	16.11
Christian County	62510 Pana Community Hospital	11.20
Christian County	62517 Taylorville Memorial Hospital	8.71
Christian County	62531 Taylorville Memorial Hospital	8.53
Christian County	62540 Taylorville Memorial Hospital	8.50
Christian County	62546 Taylorville Memorial Hospital	13.60
Christian County	62547 Taylorville Memorial Hospital	16.94
Christian County	62555 Taylorville Memorial Hospital	7.90
Christian County	62556 Taylorville Memorial Hospital	10.60
Christian County	62557 Pana Community Hospital	0.95
Christian County	62567 Taylorville Memorial Hospital	8.64
Christian County	62568 Taylorville Memorial Hospital	4.55
Christian County	62570 Taylorville Memorial Hospital	9.78
Clark County	62420 Paris Community Hospital	33.98
Clark County	62423 Paris Community Hospital	16.77
Clark County	62441 Paris Community Hospital	16.44
Clark County	62442 Paris Community Hospital	27.39
Clark County	62474 Sarah Bush Lincoln Health Center Mattoon	17.71
Clark County	62477 Crawford Memorial Hospital	18.96
Clay County	62426 Clay County Hospital	34.32
Clay County	62434 Clay County Hospital	19.79
Clay County	62824 Clay County Hospital	6.82
Clay County	62839 Clay County Hospital	0.83
Clay County	62858 Clay County Hospital	9.89
Clay County	62879 Clay County Hospital	12.44
Clay County	62899 Clay County Hospital	11.89
Coles County	61912 Sarah Bush Lincoln Health Center Mattoon	15.10
Coles County	61920 Sarah Bush Lincoln Health Center Mattoon	6.32
Coles County	61931 Sarah Bush Lincoln Health Center Mattoon	15.19
Coles County	61938 Sarah Bush Lincoln Health Center Mattoon	5.72
Coles County	61943 Sarah Bush Lincoln Health Center Mattoon	32.47
Coles County	62440 Sarah Bush Lincoln Health Center Mattoon	8.70
Crawford County	62413 Crawford Memorial Hospital	20.66
Crawford County	62427 Crawford Memorial Hospital	12.47

Crawford County	62433 Crawford Memorial Hospital	13.01
Crawford County	62449 Crawford Memorial Hospital	8.95
Crawford County	62451 Crawford Memorial Hospital	8.69
Crawford County	62454 Crawford Memorial Hospital	1.78
Crawford County	62464 Crawford Memorial Hospital	6.33
Crawford County	62478 Crawford Memorial Hospital	16.29
Cumberland County	62428 Sarah Bush Lincoln Health Center Mattoon	24.95
Cumberland County	62445 Sarah Bush Lincoln Health Center Mattoon	36.29
Cumberland County	62447 Sarah Bush Lincoln Health Center Mattoon	16.99
Cumberland County	62468 Sarah Bush Lincoln Health Center Mattoon	26.26
Cumberland County	62469 Sarah Bush Lincoln Health Center Mattoon	12.73
Douglas County	61910 Sarah Bush Lincoln Health Center Mattoon	17.43
Douglas County	61913 Sarah Bush Lincoln Health Center Mattoon	35.51
Douglas County	61919 Sarah Bush Lincoln Health Center Mattoon	30.93
Douglas County	61930 Sarah Bush Lincoln Health Center Mattoon	25.88
Douglas County	61941 Sarah Bush Lincoln Health Center Mattoon	35.72
Douglas County	61942 Paris Community Hospital	28.02
Douglas County	61953 Sarah Bush Lincoln Health Center Mattoon	26.01
Douglas County	61956 Carle Foundation Hospital	21.00
Edgar County	61917 Paris Community Hospital	20.59
Edgar County	61924 Paris Community Hospital	15.35
Edgar County	61932 Paris Community Hospital	24.49
Edgar County	61933 Paris Community Hospital	15.05
Edgar County	61940 Paris Community Hospital	21.86
Edgar County	61944 Paris Community Hospital	0.75
Edgar County	61949 Paris Community Hospital	10.69
Edgar County	61955 Paris Community Hospital	5.54
Edwards County	62476 Wabash General Hospital Mt Carmel	29.55
Edwards County	62806 Wabash General Hospital Mt Carmel	16.94
Edwards County	62815 Wabash General Hospital Mt Carmel	16.82
Edwards County	62818 Wabash General Hospital Mt Carmel	13.96
Edwards County	62833 Wabash General Hospital Mt Carmel	22.09
Edwards County	62844 Wabash General Hospital Mt Carmel	18.97
Effingham County	62401 HSHS St. Anthony's Memorial Hospital	1.20
Effingham County	62411 HSHS St. Anthony's Memorial Hospital	14.04
Effingham County	62424 HSHS St. Anthony's Memorial Hospital	11.86
Effingham County	62443 HSHS St. Anthony's Memorial Hospital	14.28
Effingham County	62461 HSHS St. Anthony's Memorial Hospital	6.95
Effingham County	62467 HSHS St. Anthony's Memorial Hospital	4.93
Effingham County	62473 HSHS St. Anthony's Memorial Hospital	8.32
Fayette County	62011 Fayette County Hospital	19.60

Fayette County	62080 Fayette County Hospital	12.34
Fayette County	62414 Fayette County Hospital	29.34
Fayette County	62418 Fayette County Hospital	9.40
Fayette County	62422 Fayette County Hospital	33.27
Fayette County	62458 Fayette County Hospital	15.93
Fayette County	62471 Fayette County Hospital	1.26
Fayette County	62838 Fayette County Hospital	25.35
Fayette County	62880 Fayette County Hospital	19.31
Fayette County	62885 Fayette County Hospital	8.35
Franklin County	62812 Franklin Hospital	1.17
Franklin County	62819 Franklin Hospital	6.54
Franklin County	62822 Franklin Hospital	9.40
Franklin County	62825 Franklin Hospital	11.08
Franklin County	62836 Franklin Hospital	9.25
Franklin County	62856 Franklin Hospital	6.60
Franklin County	62865 Franklin Hospital	13.79
Franklin County	62874 Franklin Hospital	11.97
Franklin County	62884 Franklin Hospital	13.09
Franklin County	62890 Franklin Hospital	12.06
Franklin County	62891 Franklin Hospital	11.43
Franklin County	62896 Franklin Hospital	10.33
Franklin County	62897 Franklin Hospital	6.26
Franklin County	62983 Franklin Hospital	19.83
Franklin County	62999 Franklin Hospital	14.59
Fulton County	61415 Graham Health System Canton	30.88
Fulton County	61427 Graham Health System Canton	14.38
Fulton County	61431 Graham Health System Canton	19.64
Fulton County	61432 Graham Health System Canton	14.48
Fulton County	61433 Graham Health System Canton	8.05
Fulton County	61441 Graham Health System Canton	26.93
Fulton County	61459 Graham Health System Canton	26.22
Fulton County	61477 Graham Health System Canton	21.07
Fulton County	61482 Graham Health System Canton	32.20
Fulton County	61484 Graham Health System Canton	37.34
Fulton County	61501 Graham Health System Canton	32.86
Fulton County	61519 Graham Health System Canton	8.94
Fulton County	61520 Graham Health System Canton	0.76
Fulton County	61524 Graham Health System Canton	4.97
Fulton County	61531 Graham Health System Canton	11.07
Fulton County	61542 Graham Health System Canton	15.59
Fulton County	61543 Graham Health System Canton	12.94
Fulton County	61544 Graham Health System Canton	23.45
Fulton County	61553 Graham Health System Canton	5.64
Fulton County	61563 Graham Health System Canton	5.53
Gallatin County	62867 Harrisburg Medical Center	30.92
Gallatin County	62871 Harrisburg Medical Center	22.96

Gallatin County	62934 Harrisburg Medical Center	13.26
Gallatin County	62954 Harrisburg Medical Center	18.72
Gallatin County	62979 Harrisburg Medical Center	20.63
Gallatin County	62984 Harrisburg Medical Center	23.24
Greene County	62016 Thomas H Boyd Memorial Hospital	0.67
Greene County	62027 Thomas H Boyd Memorial Hospital	8.62
Greene County	62044 Thomas H Boyd Memorial Hospital	14.98
Greene County	62050 Thomas H Boyd Memorial Hospital	18.04
Greene County	62054 Thomas H Boyd Memorial Hospital	9.36
Greene County	62078 Thomas H Boyd Memorial Hospital	17.05
Greene County	62081 Thomas H Boyd Memorial Hospital	13.93
Greene County	62082 Thomas H Boyd Memorial Hospital	13.86
Greene County	62092 Thomas H Boyd Memorial Hospital	9.99
Greene County	62098 Thomas H Boyd Memorial Hospital	13.75
Hamilton County	62817 Hamilton Memorial Hospital District	12.74
Hamilton County	62828 Hamilton Memorial Hospital District	12.30
Hamilton County	62829 Hamilton Memorial Hospital District	9.99
Hamilton County	62859 Hamilton Memorial Hospital District	0.91
Hamilton County	62860 Hamilton Memorial Hospital District	11.28
Hamilton County	62887 Hamilton Memorial Hospital District	17.94
Hancock County	61450 Memorial Hospital Carthage	23.32
Hancock County	62311 Memorial Hospital Carthage	22.34
Hancock County	62313 Memorial Hospital Carthage	10.58
Hancock County	62316 Memorial Hospital Carthage	16.08
Hancock County	62321 Memorial Hospital Carthage	1.97
Hancock County	62330 Memorial Hospital Carthage	17.63
Hancock County	62334 Memorial Hospital Carthage	8.81
Hancock County	62336 Memorial Hospital Carthage	7.18
Hancock County	62341 Memorial Hospital Carthage	14.97
Hancock County	62348 Memorial Hospital Carthage	28.51
Hancock County	62354 Memorial Hospital Carthage	25.01
Hancock County	62358 Memorial Hospital Carthage	25.02
Hancock County	62373 Memorial Hospital Carthage	23.65
Hancock County	62379 Memorial Hospital Carthage	19.84
Hancock County	62380 Memorial Hospital Carthage	15.08
Hardin County	62919 Hardin County General Hospital & Clinic	14.74
Hardin County	62931 Hardin County General Hospital & Clinic	5.69
Hardin County	62982 Hardin County General Hospital & Clinic	0.20
	OSF Holy Family Medical Center	
Henderson County	61418 Monmouth	14.91
	OSF Holy Family Medical Center	
Henderson County	61425 Monmouth	32.41
	OSF Holy Family Medical Center	
Henderson County	61437 Monmouth	20.10
Henderson County	61454 Memorial Hospital Carthage	24.75

	OSF Holy Family Medical Center	
Henderson County	61460 Monmouth	18.57
	OSF Holy Family Medical Center	
Henderson County	61469 Monmouth	15.64
	OSF Holy Family Medical Center	
Henderson County	61471 Monmouth	23.46
	OSF Holy Family Medical Center	
Henderson County	61476 Monmouth	22.10
	OSF Holy Family Medical Center	
Henderson County	61480 Monmouth	24.28
Iroquois County	60911 Iroquois Memorial Hospital	21.64
Iroquois County	60912 Iroquois Memorial Hospital	17.70
Iroquois County	60918 Iroquois Memorial Hospital	29.70
Iroquois County	60924 Iroquois Memorial Hospital	24.29
Iroquois County	60926 Iroquois Memorial Hospital	25.18
Iroquois County	60927 Iroquois Memorial Hospital	24.73
Iroquois County	60928 Iroquois Memorial Hospital	7.21
Iroquois County	60930 Iroquois Memorial Hospital	17.89
Iroquois County	60931 Iroquois Memorial Hospital	16.38
Iroquois County	60938 Iroquois Memorial Hospital	15.01
Iroquois County	60939 Iroquois Memorial Hospital	24.77
Iroquois County	60945 Iroquois Memorial Hospital	13.23
Iroquois County	60948 Iroquois Memorial Hospital	34.92
Iroquois County	60951 Iroquois Memorial Hospital	12.01
Iroquois County	60953 Iroquois Memorial Hospital	14.05
Iroquois County	60955 Iroquois Memorial Hospital	19.25
Iroquois County	60956 Iroquois Memorial Hospital	15.22
Iroquois County	60966 Iroquois Memorial Hospital	10.46
Iroquois County	60967 Iroquois Memorial Hospital	29.84
Iroquois County	60968 Iroquois Memorial Hospital	25.16
Iroquois County	60970 Iroquois Memorial Hospital	0.36
Iroquois County	60973 Iroquois Memorial Hospital	20.21
Iroquois County	60974 Iroquois Memorial Hospital	5.41
Jasper County	62432 HSHS St. Anthony's Memorial Hospital	32.00
Jasper County	62436 HSHS St. Anthony's Memorial Hospital	19.37
Jasper County	62448 Carle Richland Memorial Hospital	19.22
Jasper County	62459 Carle Richland Memorial Hospital	20.50
Jasper County	62475 Carle Richland Memorial Hospital	10.74
Jasper County	62479 HSHS St. Anthony's Memorial Hospital	15.38
Jasper County	62480 Crawford Memorial Hospital	17.11
Jasper County	62481 Crawford Memorial Hospital	23.42
	SSM Health Good Samaritan Hospital - Mt.	
Jefferson County	62810 Vernon	13.53
Jefferson County	62814 Crossroads Community Hospital	14.29
Jefferson County	62816 SSM Health Good Samaritan Hospital - Mt. Vernon	9.72

	SSM Health Good Samaritan Hospital - Mt.	
Jefferson County	62830 Vernon	11.25
	SSM Health Good Samaritan Hospital - Mt.	
Jefferson County	62846 Vernon	12.29
Jefferson County	62864 Crossroads Community Hospital	2.17
	SSM Health Good Samaritan Hospital - Mt.	
Jefferson County	62872 Vernon	10.89
	SSM Health Good Samaritan Hospital - Mt.	
Jefferson County	62883 Vernon	17.43
Jefferson County	62889 Crossroads Community Hospital	13.10
	SSM Health Good Samaritan Hospital - Mt.	
Jefferson County	62894 Vernon	10.49
Jefferson County	62898 Crossroads Community Hospital	7.48
Jo Daviess County	61001 Midwest Medical Center	23.43
Jo Daviess County	61025 Midwest Medical Center	11.08
Jo Daviess County	61028 Midwest Medical Center	18.41
Jo Daviess County	61036 Midwest Medical Center	3.86
Jo Daviess County	61041 Midwest Medical Center	20.94
Jo Daviess County	61059 Midwest Medical Center	32.93
Jo Daviess County	61075 Midwest Medical Center	13.47
Jo Daviess County	61085 Midwest Medical Center	31.24
Jo Daviess County	61087 Midwest Medical Center	29.08
Johnson County	62909 Union County Hospital Anna	19.01
Johnson County	62912 Union County Hospital Anna	19.59
Johnson County	62923 Union County Hospital Anna	18.84
Johnson County	62939 Herrin Hospital	18.60
Johnson County	62943 Massac Memorial Hospital	19.50
Johnson County	62967 Herrin Hospital	28.46
Johnson County	62972 Massac Memorial Hospital	33.88
Johnson County	62985 Massac Memorial Hospital	29.77
Johnson County	62995 Massac Memorial Hospital	20.21
Knox County	61401 OSF St. Mary Medical Center Galesburg	3.15
Knox County	61402 OSF St. Mary Medical Center Galesburg	3.15
Knox County	61410 OSF St. Mary Medical Center Galesburg	15.15
Knox County	61414 OSF St. Mary Medical Center Galesburg	15.23
Knox County	61428 OSF St. Mary Medical Center Galesburg	21.41
Knox County	61430 OSF St. Mary Medical Center Galesburg	5.57
Knox County	61436 OSF St. Mary Medical Center Galesburg	15.48
Knox County	61439 OSF St. Mary Medical Center Galesburg	3.44
Knox County	61448 OSF St. Mary Medical Center Galesburg	9.74
Knox County	61458 OSF St. Mary Medical Center Galesburg	20.44
Knox County	61467 OSF St. Mary Medical Center Galesburg	11.24
Knox County	61472 OSF St. Mary Medical Center Galesburg	10.43
Knox County	61474 OSF St. Mary Medical Center Galesburg	20.32
Knox County	61485 OSF St. Mary Medical Center Galesburg	16.60
Knox County	61488 OSF St. Mary Medical Center Galesburg	5.04

Knox County	61489 OSF St. Mary Medical Center Galesburg	24.57
Knox County	61572 OSF St. Mary Medical Center Galesburg	29.26
LaSalle County	60470 St Mary's Hospital Streator	12.80
LaSalle County	60518 OSF Saint Paul Medical Center Mendota	10.46
LaSalle County	60531 OSF Saint Paul Medical Center Mendota	18.71
LaSalle County	60549 OSF Saint Elizabeth Medical Center Ottawa	14.14
LaSalle County	60551 OSF Saint Elizabeth Medical Center Ottawa	15.80
LaSalle County	60557 OSF Saint Elizabeth Medical Center Ottawa	10.86
LaSalle County	61301 St. Margaret's Health - Peru	2.70
LaSalle County	61316 St. Margaret's Health - Peru	8.04
LaSalle County	61321 St Mary's Hospital Streator	17.28
LaSalle County	61325 St Mary's Hospital Streator	8.49
LaSalle County	61332 St Mary's Hospital Streator	12.93
LaSalle County	61334 St. Margaret's Health - Peru	14.64
LaSalle County	61341 OSF Saint Elizabeth Medical Center Ottawa	9.04
LaSalle County	61342 OSF Saint Paul Medical Center Mendota	1.99
LaSalle County	61348 St. Margaret's Health - Peru	6.05
LaSalle County	61350 OSF Saint Elizabeth Medical Center Ottawa	1.43
LaSalle County	61354 St. Margaret's Health - Peru	2.36
LaSalle County	61358 St Mary's Hospital Streator	21.53
LaSalle County	61360 OSF Saint Elizabeth Medical Center Ottawa	13.30
LaSalle County	61364 St Mary's Hospital Streator	0.83
LaSalle County	61364 OSF Saint Paul Medical Center Mendota	45.01
LaSalle County	61370 St. Margaret's Health - Peru	10.09
LaSalle County	61370 OSF Saint Paul Medical Center Mendota	27.03
LaSalle County	61371 OSF Saint Paul Medical Center Mendota	11.00
LaSalle County	61372 OSF Saint Paul Medical Center Mendota	10.06
LaSalle County	61373 St. Margaret's Health - Peru	9.47
Lawrence County	62417 Lawrence County Memorial Hospital	3.68
Lawrence County	62439 Lawrence County Memorial Hospital	1.72
Lawrence County	62460 Lawrence County Memorial Hospital	12.46
Lawrence County	62466 Lawrence County Memorial Hospital	11.16
Lee County	60553 Katherine Shaw Bethea Hospital	32.60
Lee County	61006 Katherine Shaw Bethea Hospital	15.62
Lee County	61021 Katherine Shaw Bethea Hospital	0.87
Lee County	61031 Katherine Shaw Bethea Hospital	10.18
Lee County	61042 Katherine Shaw Bethea Hospital	14.75
Lee County	61057 Katherine Shaw Bethea Hospital	5.72
Lee County	61310 Katherine Shaw Bethea Hospital	13.93
Lee County	61318 Katherine Shaw Bethea Hospital	28.51
Lee County	61324 Katherine Shaw Bethea Hospital	7.94
Lee County	61331 Katherine Shaw Bethea Hospital	13.41
Lee County	61353 Katherine Shaw Bethea Hospital	34.97
Lee County	61367 Katherine Shaw Bethea Hospital	20.97
Lee County	61378 Katherine Shaw Bethea Hospital	23.25

	OSF Saint James - John W. Albrecht	
Livingston County	60420 Medical Center	22.93
Livingston County	60460 OSF Saint James - John W. Albrecht Medical Center	14.14
Livingston County	60920 OSF Saint James - John W. Albrecht Medical Center	33.01
Livingston County	60921 OSF Saint James - John W. Albrecht Medical Center	29.89
Livingston County	60929 OSF Saint James - John W. Albrecht Medical Center	24.40
Livingston County	60934 OSF Saint James - John W. Albrecht Medical Center	23.60
Livingston County	61311 OSF Saint James - John W. Albrecht Medical Center	23.16
Livingston County	61313 OSF Saint James - John W. Albrecht Medical Center	14.13
Livingston County	61319 OSF Saint James - John W. Albrecht Medical Center	13.06
Livingston County	61333 OSF Saint James - John W. Albrecht Medical Center	22.95
Livingston County	61739 OSF Saint James - John W. Albrecht Medical Center	18.33
Livingston County	61740 OSF Saint James - John W. Albrecht Medical Center	9.68
Livingston County	61741 OSF Saint James - John W. Albrecht Medical Center	23.89
Livingston County	61743 OSF Saint James - John W. Albrecht Medical Center	5.99
Livingston County	61764 OSF Saint James - John W. Albrecht Medical Center	2.50
Livingston County	61769 OSF Saint James - John W. Albrecht Medical Center	15.72
Livingston County	61775 OSF Saint James - John W. Albrecht Medical Center	32.80
Logan County	61723 Abraham Lincoln Memorial Hospital	13.35
Logan County	61751 Abraham Lincoln Memorial Hospital	7.31
Logan County	62512 Abraham Lincoln Memorial Hospital	10.82
Logan County	62518 Abraham Lincoln Memorial Hospital	15.71
Logan County	62519 Abraham Lincoln Memorial Hospital	23.78
Logan County	62541 Abraham Lincoln Memorial Hospital	20.14
Logan County	62543 Abraham Lincoln Memorial Hospital	21.39
Logan County	62548 Abraham Lincoln Memorial Hospital	13.68
Logan County	62634 Abraham Lincoln Memorial Hospital	13.39
Logan County	62635 Abraham Lincoln Memorial Hospital	16.00
Logan County	62643 Abraham Lincoln Memorial Hospital	7.92
Logan County	62656 Abraham Lincoln Memorial Hospital	2.27

Logan County	62666 Abraham Lincoln Memorial Hospital	17.26
Logan County	62671 Abraham Lincoln Memorial Hospital	11.39
Marion County	62801 SSM Health St. Mary's Hospital - Centralia	0.94
Marion County	62807 Salem Township Hospital	7.07
Marion County	62849 Salem Township Hospital	11.48
Marion County	62853 Salem Township Hospital	15.77
Marion County	62854 Salem Township Hospital	12.81
Marion County	62870 Salem Township Hospital	7.82
Marion County	62875 Salem Township Hospital	19.76
Marion County	62881 Salem Township Hospital	1.99
Marion County	62882 SSM Health St. Mary's Hospital - Centralia	7.38
Marion County	62892 Salem Township Hospital	23.68
Marion County	62893 SSM Health St. Mary's Hospital - Centralia	8.95
Mason County	61532 Mason District Hospital	17.67
Mason County	61567 Mason District Hospital	8.92
Mason County	62617 Mason District Hospital	10.00
Mason County	62633 Mason District Hospital	16.58
Mason County	62644 Mason District Hospital	1.52
Mason County	62655 Mason District Hospital	12.25
Mason County	62664 Mason District Hospital	24.91
Mason County	62682 Mason District Hospital	25.51
Massac County	62908 Massac Memorial Hospital	19.68
Massac County	62910 Massac Memorial Hospital	9.64
Massac County	62953 Massac Memorial Hospital	7.97
Massac County	62956 Massac Memorial Hospital	17.66
Massac County	62960 Massac Memorial Hospital	2.66
McDonough County	61411 McDonough District Hospital	12.20
McDonough County	61416 McDonough District Hospital	9.42
McDonough County	61420 McDonough District Hospital	18.77
McDonough County	61422 McDonough District Hospital	16.15
McDonough County	61438 McDonough District Hospital	8.69
McDonough County	61440 McDonough District Hospital	13.21
McDonough County	61455 McDonough District Hospital	3.81
McDonough County	61470 McDonough District Hospital	22.17
McDonough County	61475 McDonough District Hospital	12.14
McDonough County	62326 McDonough District Hospital	8.33

McDonough County	62374 McDonough District Hospital	10.81
Montgomery County	62015 Hillsboro Area Hospital	6.87
Montgomery County	62017 Hillsboro Area Hospital	8.94
Montgomery County	62032 Hillsboro Area Hospital	14.18
Montgomery County	62049 Hillsboro Area Hospital	1.57
Montgomery County	62051 Hillsboro Area Hospital	6.55
Montgomery County	62056 HSHS St. Francis Hospital	1.43
Montgomery County	62075 Hillsboro Area Hospital	15.93
Montgomery County	62076 Hillsboro Area Hospital	20.08
Montgomery County	62083 Hillsboro Area Hospital	21.32
Montgomery County	62089 Hillsboro Area Hospital	2.87
Montgomery County	62091 Hillsboro Area Hospital	12.88
Montgomery County	62094 Hillsboro Area Hospital	10.88
Montgomery County	62533 Hillsboro Area Hospital	32.09
Montgomery County	62538 Hillsboro Area Hospital	17.77
Montgomery County	62560 Hillsboro Area Hospital	14.13
Montgomery County	62572 Hillsboro Area Hospital	22.73
Morgan County	62601 Jacksonville Memorial Hospital	16.31
Morgan County	62628 Jacksonville Memorial Hospital	9.49
Morgan County	62631 Jacksonville Memorial Hospital	12.48
Morgan County	62638 Jacksonville Memorial Hospital	16.65
Morgan County	62650 Jacksonville Memorial Hospital	3.58
Morgan County	62665 Jacksonville Memorial Hospital	18.53
Morgan County	62668 Jacksonville Memorial Hospital	13.69
Morgan County	62692 Jacksonville Memorial Hospital	22.31
Morgan County	62695 Jacksonville Memorial Hospital	10.35
Moultrie County	61911 HSHS St. Mary's Hospital	33.08
Moultrie County	61914 HSHS St. Mary's Hospital	20.26
Moultrie County	61928 HSHS Good Shepherd Hospital	19.57

Moultrie County	61937 HSHS St. Mary's Hospital	22.29
Moultrie County	61951 HSHS Good Shepherd Hospital	23.93
Ogle County	60113 Rochelle Community Hospital	5.84
Ogle County	61007 Rochelle Community Hospital	43.17
Ogle County	61010 Rochelle Community Hospital	21.77
Ogle County	61015 Rochelle Community Hospital	14.26
Ogle County	61020 Rochelle Community Hospital	13.57
Ogle County	61030 Rochelle Community Hospital	39.53
Ogle County	61043 Rochelle Community Hospital	12.15
Ogle County	61047 Rochelle Community Hospital	30.52
Ogle County	61049 Rochelle Community Hospital	19.75
Ogle County	61052 Rochelle Community Hospital	16.40
Ogle County	61054 Rochelle Community Hospital	25.82
Ogle County	61061 Rochelle Community Hospital	19.88
Ogle County	61064 Rochelle Community Hospital	39.40
Ogle County	61068 Rochelle Community Hospital	2.10
Ogle County	61084 Rochelle Community Hospital	18.04
Ogle County	61091 Rochelle Community Hospital	32.79
Perry County	62237 Pinckneyville Community Hospital	16.79
Perry County	62238 Pinckneyville Community Hospital	16.15
Perry County	62274 Pinckneyville Community Hospital	2.71
Perry County	62832 Marshall Browning Hospital	2.17
Perry County	62888 Marshall Browning Hospital	8.94
Pike County	62312 Illini Community Hospital Pittsfield	14.41
Pike County	62314 Illini Community Hospital Pittsfield	16.11
Pike County	62323 Illini Community Hospital Pittsfield	22.21
Pike County	62340 Illini Community Hospital Pittsfield	9.27
Pike County	62343 Illini Community Hospital Pittsfield	32.11
Pike County	62345 Illini Community Hospital Pittsfield	21.48
Pike County	62352 Illini Community Hospital Pittsfield	13.03
Pike County	62356 Illini Community Hospital Pittsfield	22.64
Pike County	62357 Illini Community Hospital Pittsfield	12.54
Pike County	62361 Illini Community Hospital Pittsfield	21.58
Pike County	62362 Illini Community Hospital Pittsfield	14.75
Pike County	62363 Illini Community Hospital Pittsfield	1.03
Pike County	62366 Illini Community Hospital Pittsfield	19.86
Pike County	62370 Illini Community Hospital Pittsfield	14.17
Pope County	62928 Harrisburg Medical Center	18.27
Pope County	62938 Hardin County General Hospital & Clinic	20.05
Pope County	62947 Hardin County General Hospital & Clinic	15.43
Pope County	62987 Harrisburg Medical Center	13.89
Pulaski County	62941 Massac Memorial Hospital	24.70
Pulaski County	62963 Union County Hospital Anna	30.60
Pulaski County	62964 Union County Hospital Anna	28.72
Pulaski County	62970 Union County Hospital Anna	24.91
Pulaski County	62976 Union County Hospital Anna	22.52

Pulaski County	62992 Union County Hospital Anna	18.42
Pulaski County	62996 Union County Hospital Anna	24.65
Putnam County	61326 OSF Saint Clare Medical Center Princeton	18.40
Putnam County	61327 OSF Saint Clare Medical Center Princeton	14.23
Putnam County	61335 OSF Saint Clare Medical Center Princeton	25.21
Putnam County	61336 OSF Saint Clare Medical Center Princeton	29.92
Putnam County	61340 OSF Saint Clare Medical Center Princeton	16.75
Putnam County	61363 OSF Saint Clare Medical Center Princeton	20.65
Putnam County	61560 OSF Saint Clare Medical Center Princeton	15.26
Randolph County	62217 Sparta Community Hospital	9.97
Randolph County	62233 Memorial Hospital Chester	1.00
Randolph County	62241 Memorial Hospital Chester	8.67
Randolph County	62242 Memorial Hospital Chester	16.18
Randolph County	62261 Memorial Hospital Chester	17.46
Randolph County	62272 Sparta Community Hospital	13.91
Randolph County	62277 Memorial Hospital Chester	21.46
Randolph County	62286 Sparta Community Hospital	2.53
Randolph County	62288 Sparta Community Hospital	11.19
Randolph County	62292 Sparta Community Hospital	8.09
Randolph County	62297 Sparta Community Hospital	10.88
Richland County	62419 Carle Richland Memorial Hospital	8.87
Richland County	62421 Carle Richland Memorial Hospital	7.96
Richland County	62425 Carle Richland Memorial Hospital	8.88
Richland County	62450 Carle Richland Memorial Hospital	0.61
Richland County	62452 Carle Richland Memorial Hospital	11.89
Richland County	62868 Carle Richland Memorial Hospital	9.56
Saline County	62917 Harrisburg Medical Center	12.11
Saline County	62930 Ferrell Hospital	0.53
Saline County	62935 Ferrell Hospital	9.97
Saline County	62946 Harrisburg Medical Center	0.96
Saline County	62965 Harrisburg Medical Center	3.99
Saline County	62977 Ferrell Hospital	5.67
Schuyler County	61452 Culbertson Memorial Hospital Rushville	10.74
Schuyler County	62319 Culbertson Memorial Hospital Rushville	13.20
Schuyler County	62344 Culbertson Memorial Hospital Rushville	19.92
Schuyler County	62367 Culbertson Memorial Hospital Rushville	33.61
Schuyler County	62624 Culbertson Memorial Hospital Rushville	15.81
Schuyler County	62639 Culbertson Memorial Hospital Rushville	8.49
Schuyler County	62681 Culbertson Memorial Hospital Rushville	0.90
Scott County	62610 Thomas H Boyd Memorial Hospital	19.07
Scott County	62621 Jacksonville Memorial Hospital	20.54
Scott County	62663 Thomas H Boyd Memorial Hospital	18.50
Scott County	62694 Jacksonville Memorial Hospital	21.80
Shelby County	61957 HSHS Good Shepherd Hospital	13.58
Shelby County	62431 HSHS Good Shepherd Hospital	23.09
Shelby County	62438 HSHS Good Shepherd Hospital	10.89

Shelby County	62444 HSHS Good Shepherd Hospital	11.82
Shelby County	62462 HSHS Good Shepherd Hospital	29.40
Shelby County	62463 HSHS Good Shepherd Hospital	20.05
Shelby County	62465 HSHS Good Shepherd Hospital	13.85
Shelby County	62534 HSHS Good Shepherd Hospital	11.34
Shelby County	62550 HSHS Good Shepherd Hospital	30.44
Shelby County	62553 HSHS Good Shepherd Hospital	23.44
Shelby County	62565 HSHS Good Shepherd Hospital	0.84
Shelby County	62571 HSHS Good Shepherd Hospital	10.12
Stephenson County	61013 FHN Memorial Hospital	6.48
Stephenson County	61018 FHN Memorial Hospital	10.89
Stephenson County	61019 FHN Memorial Hospital	17.40
Stephenson County	61027 FHN Memorial Hospital	9.01
Stephenson County	61032 FHN Memorial Hospital	0.83
Stephenson County	61039 FHN Memorial Hospital	14.27
Stephenson County	61044 FHN Memorial Hospital	20.40
Stephenson County	61048 FHN Memorial Hospital	15.06
Stephenson County	61050 FHN Memorial Hospital	14.73
Stephenson County	61060 FHN Memorial Hospital	12.15
Stephenson County	61062 FHN Memorial Hospital	12.22
Stephenson County	61067 FHN Memorial Hospital	10.43
Stephenson County	61070 FHN Memorial Hospital	14.02
Stephenson County	61089 FHN Memorial Hospital	21.70
Union County	62905 Union County Hospital Anna	14.98
Union County	62906 Union County Hospital Anna	0.85
Union County	62920 Union County Hospital Anna	5.74
Union County	62926 Union County Hospital Anna	10.11
Union County	62952 Union County Hospital Anna	1.56
Union County	62958 Union County Hospital Anna	12.65
Union County	62961 Union County Hospital Anna	10.24
Union County	62998 Union County Hospital Anna	16.29
Wabash County	62410 Wabash General Hospital Mt Carmel	9.32
Wabash County	62811 Wabash General Hospital Mt Carmel	10.18
Wabash County	62852 Wabash General Hospital Mt Carmel	8.40
Wabash County	62863 Wabash General Hospital Mt Carmel	0.94
Warren County	61417 OSF Holy Family Medical Center Monmouth	17.82
Warren County	61423 OSF Holy Family Medical Center Monmouth	11.17
Warren County	61435 OSF Holy Family Medical Center Monmouth	6.74
Warren County	61447 OSF Holy Family Medical Center Monmouth	8.02
Warren County	61453 OSF Holy Family Medical Center Monmouth	12.29

	OSF Holy Family Medical Center	
Warren County	61462 Monmouth	1.81
Warren County	61473 OSF Holy Family Medical Center Monmouth	13.84
Warren County	61478 OSF Holy Family Medical Center Monmouth	15.07
Washington County	62214 Washington County Hospital Nashville	8.27
Washington County	62263 Washington County Hospital Nashville	1.60
Washington County	62268 Washington County Hospital Nashville	12.95
Washington County	62271 Washington County Hospital Nashville	15.11
Washington County	62803 Washington County Hospital Nashville	13.27
Washington County	62808 Washington County Hospital Nashville	12.38
Washington County	62831 Washington County Hospital Nashville	18.37
Washington County	62848 Washington County Hospital Nashville	18.42
Washington County	62876 Washington County Hospital Nashville	15.46
Washington County	62877 Washington County Hospital Nashville	17.16
Wayne County	62446 Fairfield Memorial Hospital	19.97
Wayne County	62809 Fairfield Memorial Hospital	10.16
Wayne County	62823 Fairfield Memorial Hospital	13.18
Wayne County	62837 Fairfield Memorial Hospital	0.96
Wayne County	62842 Fairfield Memorial Hospital	7.26
Wayne County	62843 Fairfield Memorial Hospital	9.80
Wayne County	62850 Fairfield Memorial Hospital	23.84
Wayne County	62851 Fairfield Memorial Hospital	17.32
Wayne County	62878 Fairfield Memorial Hospital	19.62
Wayne County	62886 Fairfield Memorial Hospital	9.79
Wayne County	62895 Fairfield Memorial Hospital	14.49
White County	62820 Hamilton Memorial Hospital District	32.18
White County	62821 Hamilton Memorial Hospital District	20.95
White County	62827 Hamilton Memorial Hospital District	28.89
White County	62835 Hamilton Memorial Hospital District	13.23
White County	62861 Harrisburg Medical Center	43.48
White County	62862 Hamilton Memorial Hospital District	26.13
White County	62869 Harrisburg Medical Center	22.00
Whiteside County	61037 CGH Medical Center	4.85
Whiteside County	61071 CGH Medical Center	2.65



