November 30, 2013

Ngozi Ndulue
Ohio Justice & Policy Center
215 E. 9th Street, Suite 601
Cincinnati, Ohio 45202

Dear Ms. Ndulue,

I provide the attached report titled “Analysis of the Proximity of Jails to Hospitals in Ohio” in response for your request for such a study.

The report constitutes:

(i) a complete statement of all opinions and the basis and reasons for them;
(ii) the facts or data considered in forming them; and
(iii) exhibits that are used to summarize or support them.

In addition I have provided my curriculum vita, including publications, and a list of testimony, depositions, and affidavits for other court cases.

As you know, I have volunteered my time, free of charge, for this work. My normal fee for this work is $100 per hour.

Sincerely,

Mark J. Salling

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Analysis of the Proximity of Jails to Hospitals in Ohio

Mark Salling, PhD, GISP
Senior Research Associate
Maxine Goodman Levin College of Urban Affairs
Cleveland State University

October 30, 2013

This study maps the geographic distributions of hospitals and jails in the State of Ohio and calculates the average distance between jails and their nearest hospital. The purpose is to assess how close the jails are to hospitals.

Data and Methods

Geographic Information Systems (GIS) software is used to geocode and map two Excel files, one containing the address of hospitals and the other the addresses of jails in the state. The U.S. Census Bureau’s 2010 TIGER data were used as the street reference file for geocoding addresses (i.e., locating them on the reference or base map). In GIS terms, once the addresses have been geocoded the software, if requested, provides the distance between each jail and its nearest hospital when the jail layer is spatially joined by hospital layer. An average distance between the jails and their nearest hospitals is then calculated.

Since temporary holding facilities (THFs) hold persons for less than six hours, we exclude them in a second part of the analysis.

Results

Map 1 shows the geographic distributions of both the hospitals and the jails. It also reports the average distance between jails and their nearest hospital, which is 3.77 miles.

Among the 320 jails, more than three quarters (77%) are within five miles of a hospital and almost half (48%) are within 2 miles.

Map 2 shows the type of jail, with THF facilities excluded. The average distance to the closest hospital for these jails is 3.67 miles.

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1 The analysis was requested by the Ohio Justice & Policy Center and data used in the analysis were supplied by that organization.
Map 1: Geographic Distribution of Jails and Hospitals

Locations of Jails and Hospitals in Ohio

![Map of Ohio showing locations of Jails and Hospitals]

Average distance between a jail and its nearest hospital = 3.77 miles

Prepared by:
The Northern Ohio Data & Information Service
Maxine Goodman Levin College of Urban Affairs
Cleveland State University
November 2013

Analysis of the Proximity of Jails to Hospitals in Ohio
Ma0 2: Geographic Distribution of Non-THF Jails and Hospitals

Locations of Jails and Hospitals in Ohio
(Excluding THF Jails)

Jail Facility Type

Hospitals

Average distance between a jail and the nearest non-THF hospital = 3.87 miles

Prepared by
The Northeast Ohio Data & Information Service
NOODIS
Marina Goodwin, Levin College of Urban Affairs
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November 2013 r/n

Analysis of the Proximity of Jails to Hospitals in Ohio