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Dartmouth
Atlas
of
Health Care**

The Great Lakes States

The Center for the
Evaluative Clinical Sciences

Dartmouth Medical School



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The Dartmouth Atlas of Health Care in the Great Lakes States

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Introduction

Geographic Variations In Health Care

The national volume of the Dartmouth Atlas of Health Care, published in the Spring of 1996, brought to light the often startling patterns of variation in health care throughout the nation. Research conducted to produce the Atlas revealed large differences in the rates of allocation of hospital resources, in the physician supply, and in the use of procedures such as coronary artery bypass grafting. The analysis of these differences was at the level of 306 hospital referral regions — the natural markets, defined by patient origin studies, for the use of tertiary, or referral, care among populations in the United States.

But health care is highly local, and the analysis of patterns of resource distribution and utilization among referral regions often masks important differences between the communities which, when aggregated, make up the larger region. Moreover, the task of actually addressing the problems of variation is often a local undertaking, one for which more specific — and more local — information is needed.

The 306 hospital referral regions comprise 3,436 geographically distinct hospital service areas, which are the natural markets for care that can be delivered locally — outpatient services and most acute hospital care. The regional volumes of the Dartmouth Atlas of Health Care (this book is one of nine such volumes) focus on these hospital service areas as the unit of analysis. The regional volumes make clear that there is often as much, and frequently more, variation among the hospital service areas within states and regions than among the larger units of analysis, the hospital referral regions.

The existence of variation raises a number of important issues. Foremost is the question “Which rate is right?” Which pattern of resource allocation, and which pattern of utilization, is “correct?” The study of practice variations reveals how complex this question really is. In the case of variations in rates of individual procedures, such as coronary artery bypass grafting and back surgery, the explanation is not that patients in areas with low procedure rates are going without treatment; they are, instead,

being treated differently, often with more conservative medical management (Table 1). Learning which rate is right requires learning what informed patients want. The right rate must be the one that reflects the choices of patients who have been adequately informed and empowered to choose among the available options.

Table 1. Common Conditions for Which a Number of Treatment Alternatives Are Used

Condition	Major Treatment Alternatives
Noncancerous conditions of the uterus	Surgery (by type;); hormone treatment; drugs; watchful waiting
Angina pectoris	Bypass surgery; angioplasty; drugs
Gallstones	Surgery; stone crushing; medical management; watchful waiting
Peripheral vascular disease	Bypass surgery; angioplasty; medical management
Cataracts	Lens extraction (by type); watchful waiting
Arthritis of hip and knee	Surgery (by type); medical management
Prostatism (BPH — benign prostatic hyperplasia)	Surgery (by type); balloon dilation; drugs; microwave diathermy; watchful waiting
Herniated disc	Surgery (by type); various medical management strategies
Atherosclerosis of carotid artery with threat of stroke	Carotid endarterectomy; aspirin

In the case of variations in the supply of health care resources, such as the numbers of hospital beds and physicians, the question “Which rate is right?” needs to be framed in another way: What is the impact on population health of variations in resource allocation? Is more better? And if not, how much could be reallocated to other, more effective uses by reducing resources and their utilization to the level of more conservative communities?

Another important issue raised by geographic variation concerns fairness. Variation studies provide good evidence that populations in regions where health care spending is low are not necessarily sicker, or in greater medical need, than those in regions where health care spending is high — more spending, in other words, is not buying more health. Spending is higher, not because better health is being achieved, but because the local health care systems have greater capacity, or because the price of medical care in those communities is higher. A system that rewards high spending areas by continuing to pay their higher costs is by definition economically punishing areas that have fewer resources, use them more efficiently, and are reimbursed less. Is it fair for citizens living in regions with low per capita health care costs to subsidize the greater (and more costly) use of care by people living in high resource and high utilization regions?

The nine regional Atlases provide the data and analysis for specific hospital service areas with which these and other questions can be addressed. Strategies to address the question of the appropriate levels of supply must be developed in the absence of detailed understanding of the nature of health care needs, medical care outcomes, and what patients want. One such strategy begins by examining individual communities and comparing them to others. Such comparisons lead naturally to a search for “efficiently” operated health plans or communities — those with an adequate but not excessive supply of resources.

About Benchmarking in the Atlas

Even in the absence of a detailed understanding of the nature of health care needs, medical care outcomes, and what patients want, we must establish appropriate levels of supply. One method of doing this is to examine the way resources are actually used, and to use as “benchmarks” efficiently operated health care plans or communities that appear to have an adequate but not excessive level of supply.

Benchmarking provides answers to two related questions: How much more (or less) health care capacity would the nation need, if all areas had the level of capacity of the benchmark area? And how much more (or less) health care capacity would be required in a specific area if its per capita capacity were equal to the level of the benchmark area?

Figure 1.1 illustrates the benchmarking approach to the second question by comparing the supply of acute care hospital beds per thousand residents of Boston, Massachusetts, Hartford, Connecticut, and New Haven, Connecticut, to three benchmarks. The benchmarks in this example are the highest ranked of the three areas, Boston (which had 3.7 beds per thousand residents in 1993); New Haven, the lowest ranked (2.4 beds per thousand) and the United States average of 3.3 beds per thousand. The figure shows the result of applying the New Haven benchmark to Boston: Boston’s adjusted bed supply was 54% higher than New Haven’s ($3.712/2.404 = 1.54$). If the New Haven rate had prevailed in Boston, Boston would have had 1,006 fewer beds (the number in parentheses). This number is obtained by multiplying the population of the Boston hospital service area by its bed rate: $3.712 \times 768,694 = 2,853.4$. Had New Haven rates applied, the number allocated would have been 1,847.9 ($2.404 \times 768,694$). The “excess” beds in Boston are calculated by subtraction: $2,853.4 - 1,847.9 = 1,005.5$.

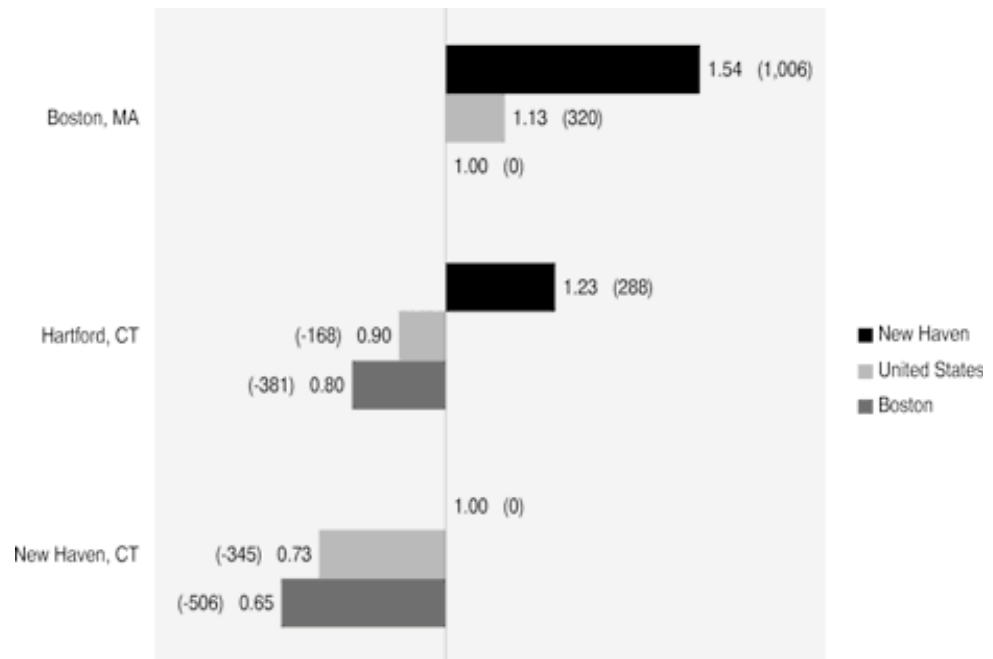


Figure 1.1. Allocated Acute Care Hospital Beds in Selected Hospital Service Areas in the New England States Compared to the Boston, Massachusetts and New Haven, Connecticut Hospital Service Areas and to the U.S. Average (1993)

Benchmarks are used in this volume of the Atlas to compare levels of supply of health care resources, reimbursements, and utilization among hospital service areas in the Great Lakes States. These comparisons are starting points; using the Dartmouth Atlas of Health Care databases, which are available on CD-ROM, and software available without charge through the Atlas internet site (<http://www.dartmouth.edu/~atlas/>), it is possible to compare any given hospital service area to any other area, and, in the case of the physician workforce, to a large health maintenance organization.

In Figure 1.1, Hartford, Connecticut's, adjusted rates are demonstrated to have been 23% higher than the New Haven benchmark; the surplus is calculated as 288 acute care beds in the Hartford hospital service area. The figure also benchmarks Boston's level of bed supply to Hartford's and New Haven's. Hospital bed rates in Hartford were 20% lower than in Boston; when the Boston benchmark is applied to Hartford, 381 more beds are needed. If Boston's rate were applied to New Haven, 506 more hospital beds would be needed. Figure 1.1 also illustrates the use of the United States average as a benchmark.

Tables

Detailed information about each hospital service area in the Great Lakes States — including most of the variables presented in the Atlas — is presented at the end of Parts Two through Five. Part Six presents details concerning the contribution of specific hospitals to the total allocation of hospital beds and Medicare reimbursements for inpatient care in each hospital service area. It also includes information on the number of physicians who serve each hospital service area and the locations of their practices. A more extensive database is available on CD-ROM.

Strategies and Methods

Part Nine of the national volume of the Dartmouth Atlas of Health Care provides details about the methods used in the Atlas and an explanation of the distribution graphs and the measure of association, the R^2 statistic, used in both the national and regional Atlases. Since some hospital service areas have small populations, areas were excluded from maps and figures in the regional volumes if the standard error of their rates exceeded 10% of the national average rate; for surgical procedures, the maximum standard error was 20%. The minimum population size for inclusion thus differs among the variables, and is reported in the notes to Tables Two through Five.

The impact of sample size is greatest for the estimates of Medicare reimbursements, which are based on a 5% sample of Medicare claims. In the national volume, these estimates were based on a one-year sample (1993). To increase the precision of these estimates, the data for reimbursements presented in the regional Atlases are based on a two-year sample (1992-93); the denominators are the enrollee person-years for the same time period. The rates thus reflect the average annual rate for the two-year period, 1992-93.

About Rates in the Atlas

In order to make comparisons easier, all rates in the Atlas are expressed on a scale that results in at least one digit to the left of the decimal point (e.g., 98.4 primary care physicians per hundred thousand residents, rather than .984 per thousand). To achieve this, different denominators were used in calculating rates.

The levels of supply of hospital beds, hospital full time equivalent employees and registered nurses are expressed as beds, employees, and registered nurses per thousand residents of the hospital service area, based on American Hospital Association data and census calculations.

Expenditures and reimbursements are expressed as dollars per capita or per Medicare enrollee, based on American Hospital Association data, Medicare claims data, and census calculations.

The numbers of physicians providing services to residents of hospital service areas are expressed as physicians per hundred thousand residents, based on American Medical Association and American Osteopathic Association data and census calculations.

The numbers of surgical and diagnostic procedures performed are expressed as procedures per thousand Medicare enrollees in the hospital service area, (or as procedures per thousand male Medicare enrollees in the area, in the case of prostate procedures) based on Medicare claims data.

Patient day rates are expressed as total inpatient days per thousand Medicare enrollees, based on Medicare claims data.

Making Fair Comparisons Between Hospital Service Areas

Some communities have greater needs for health care services and resources than others; for example, in some communities in Florida, as many as 60% of residents are over age 65. Other parts of the country — including some with large college populations, or ski resorts — have much larger proportions of younger people. To ensure fair comparisons between areas, all rates in the Atlas have been adjusted to remove the differences that might be due to the different age and sex composition of local populations. This adjustment avoids identifying some areas as having high rates of utilization simply because of their larger proportions of elderly residents. When data were available, rates have also been adjusted for differences in race. The methods used to adjust these rates are explained in Part Nine of the national volume of the Dartmouth Atlas of Health Care.

Some areas, such as major urban centers, have higher costs of living than others. Such areas are likely to have high health care expenditures because the costs of personnel, real estate, and supplies are higher, and not necessarily because they are providing more services. Adjusting for such variation provides a more comparable measure of differences in real health care spending that is not simply due to differences in costs of living among areas. To ensure fair comparisons of health care expenditures, hospital expenditure rates and Medicare reimbursement rates were adjusted to take into account the differences between hospital service areas in costs of living.

The methods used to adjust for age, sex, race, and price of medical care are detailed in Part Nine of the national volume of the Dartmouth Atlas of Health Care.

Communicating With Us About the Atlas

Our Atlas Home Page on the World Wide Web contains Atlas information, including a summary of Dartmouth related research and electronic copies of some hard-to-find references. Please send us your comments on the Atlas, particularly suggestions on how to improve it in the future.

We are at <http://www.dartmouth.edu/~atlas>.

PART ONE

The Geography of Health Care in the Great Lakes States

The Geography of Health Care in the Great Lakes States

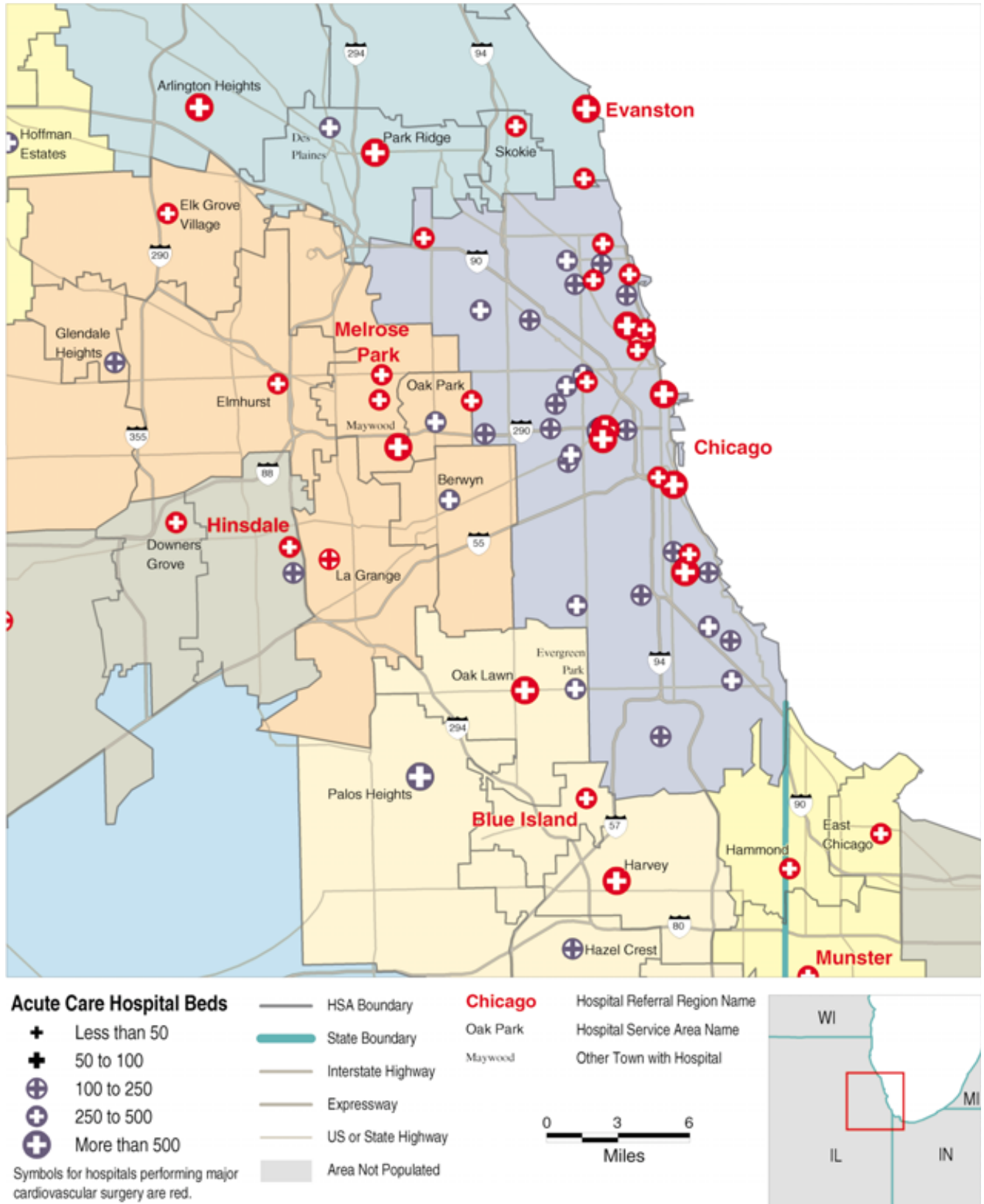
The use of health care resources in the Great Lakes States, like their use in the United States as a whole, is highly localized. Most Americans use the services of physicians whose practices are nearby. Physicians, in turn, are usually affiliated with hospitals that are near their practices. As a result, when patients are admitted to hospitals, the admission generally takes place within a relatively short distance of where the patient lives. Although the distances from homes to hospitals vary with geography — people who live in rural areas travel farther than those who live in cities — in general most patients are admitted to a hospital which provides an appropriate level of care close to where they live.

The Medicare program maintains exhaustive records of hospitalizations, which makes it possible to define the patterns of use of hospital care. When Medicare enrollees are admitted to hospitals, the program's records identify both the patients' places of residence (by ZIP Code) and the hospitals where the admissions took place (by a unique numerical identifier). These files provide a reliable basis for determining the geographic pattern of health care use, because research shows that the migration patterns of patients in the Medicare program are similar to those for younger patients.

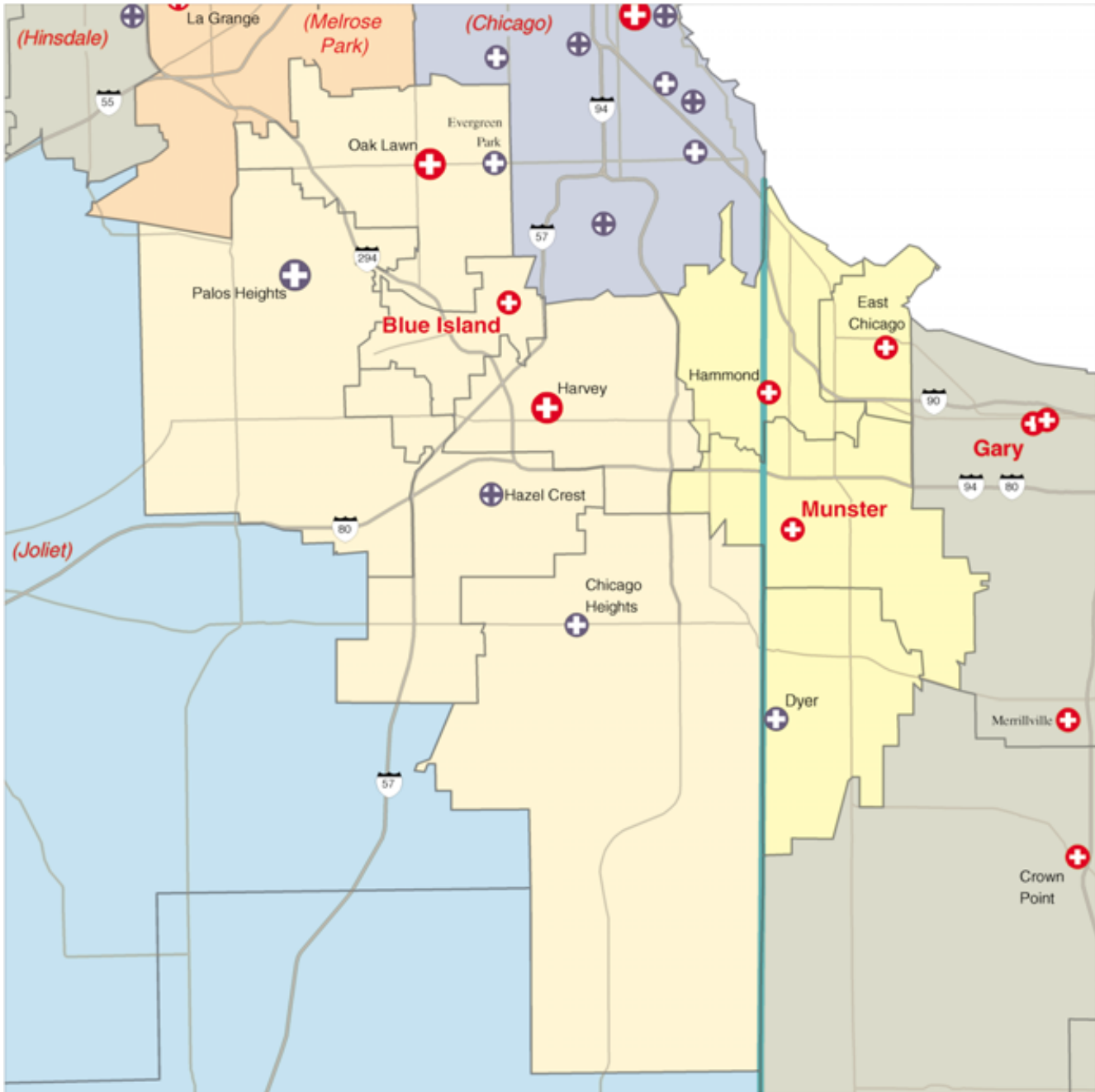
Medicare records of hospitalizations were used to define 3,436 geographically distinct hospital service areas in the United States. In each hospital service area, most of the care received by Medicare patients is provided by hospitals within the area. There are 544 of these hospital service areas in the Great Lakes States. The maps in this section show the location of each of these areas. Hospital service areas have been further aggregated into hospital referral regions, based on the pattern of use of cardiac surgery and neurosurgery. The maps also show the hospital referral regions to which the hospital service areas belong.

A detailed description of how hospital service areas and hospital referral regions were defined, and of the methodologies used to create the Atlas of Health Care in the Great Lakes States, is included in Part Nine of the national volume of the Dartmouth Atlas of Health Care. Population size in the hospital service areas in the Great Lakes States is given in Tables 2 and 4. The numbers of Medicare enrollees in each hospital service area are given in Tables 3 and 5.

Hospital Service Areas Assigned to the Chicago, IL Hospital Referral Region



Hospital Service Areas Assigned to the Blue Island, IL and Munster, IN Hospital Referral Regions



Acute Care Hospital Beds

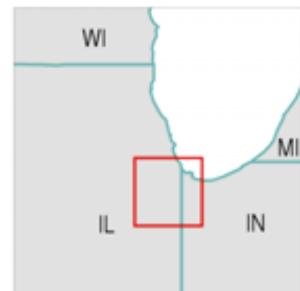
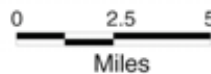
- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

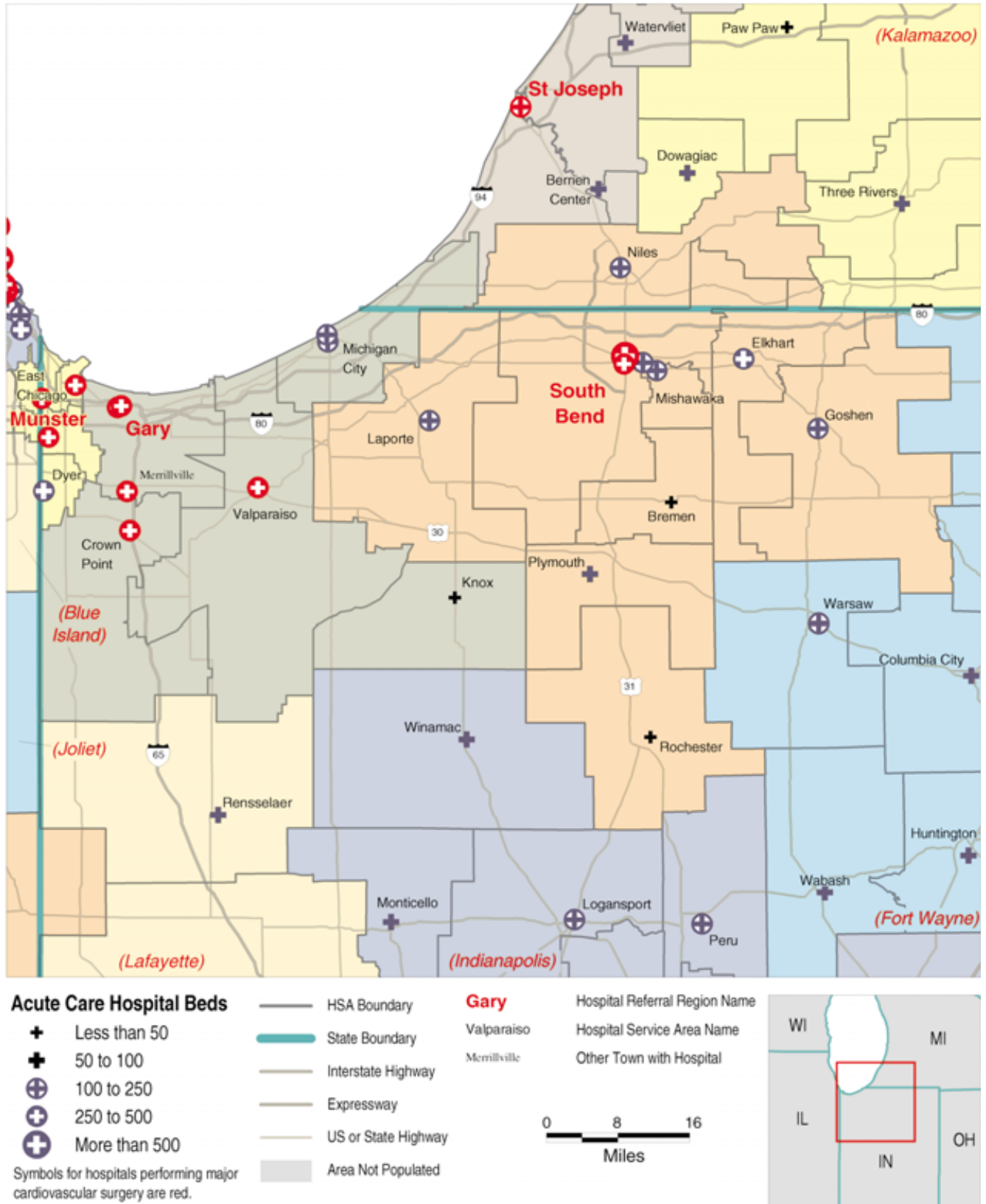
- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

Munster
Dyer
Merrillville

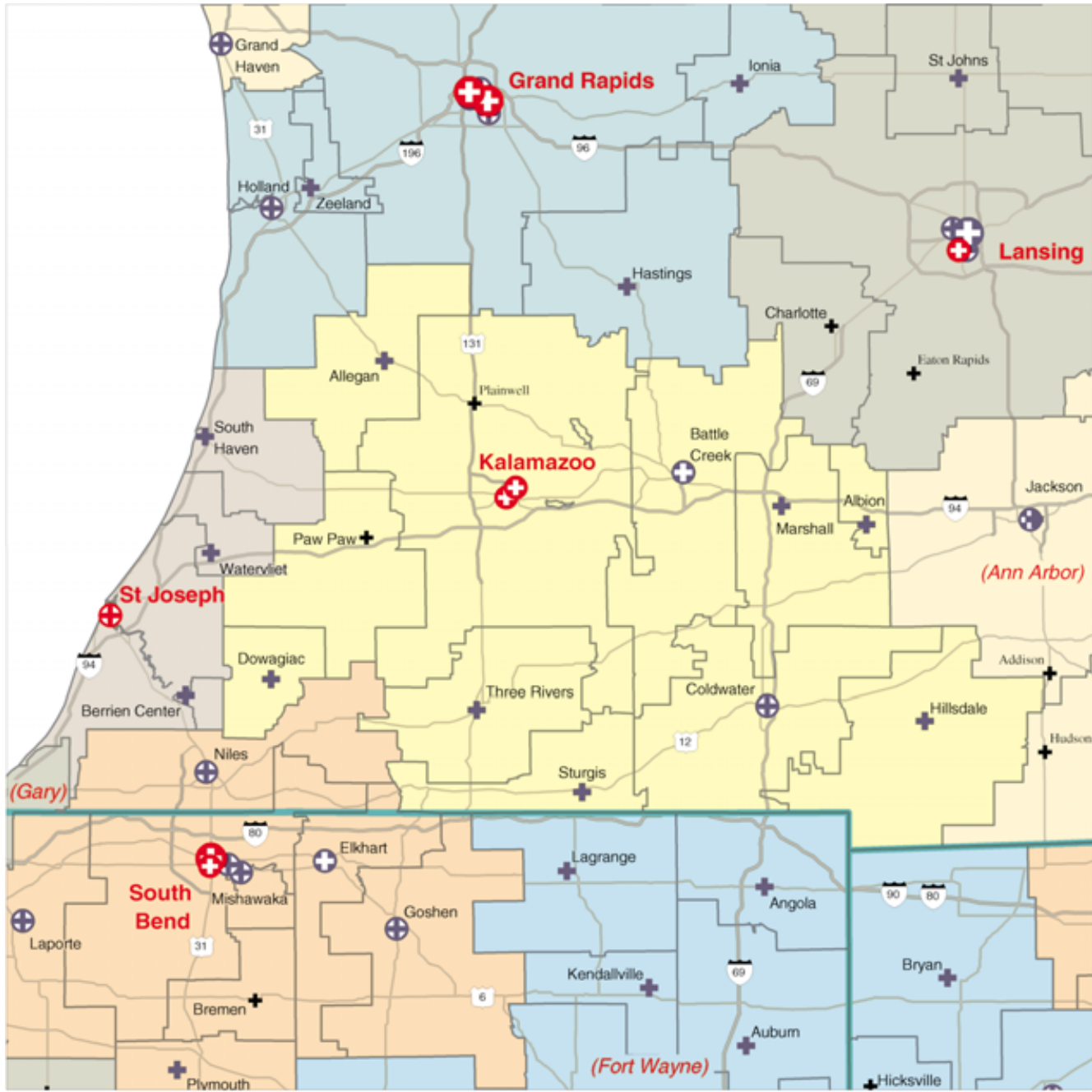
Hospital Referral Region Name
Hospital Service Area Name
Other Town with Hospital



Hospital Service Areas Assigned to the Gary and South Bend, IN Hospital Referral Regions



Hospital Service Areas Assigned to the Kalamazoo and St. Joseph, MI Hospital Referral Regions



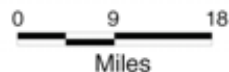
Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

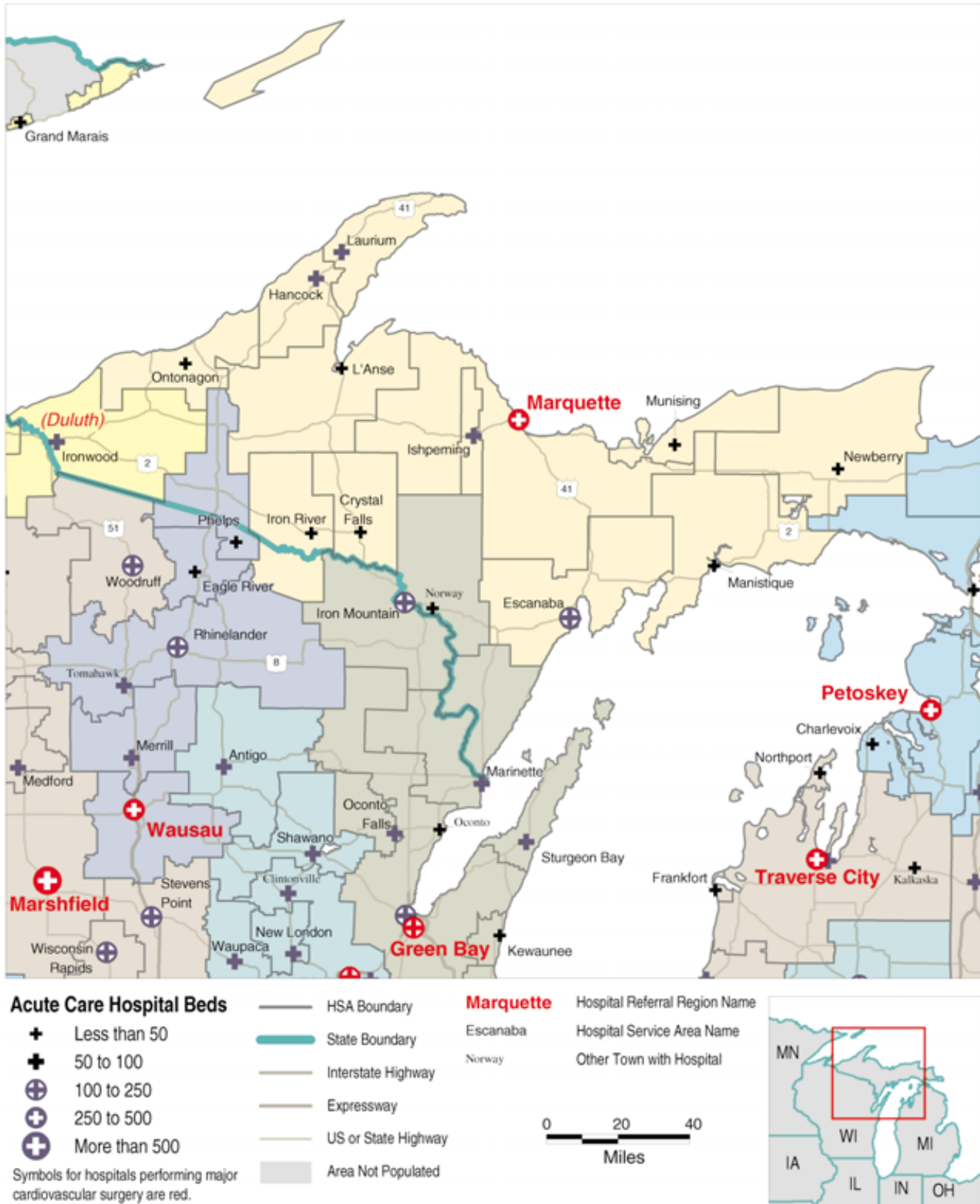
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

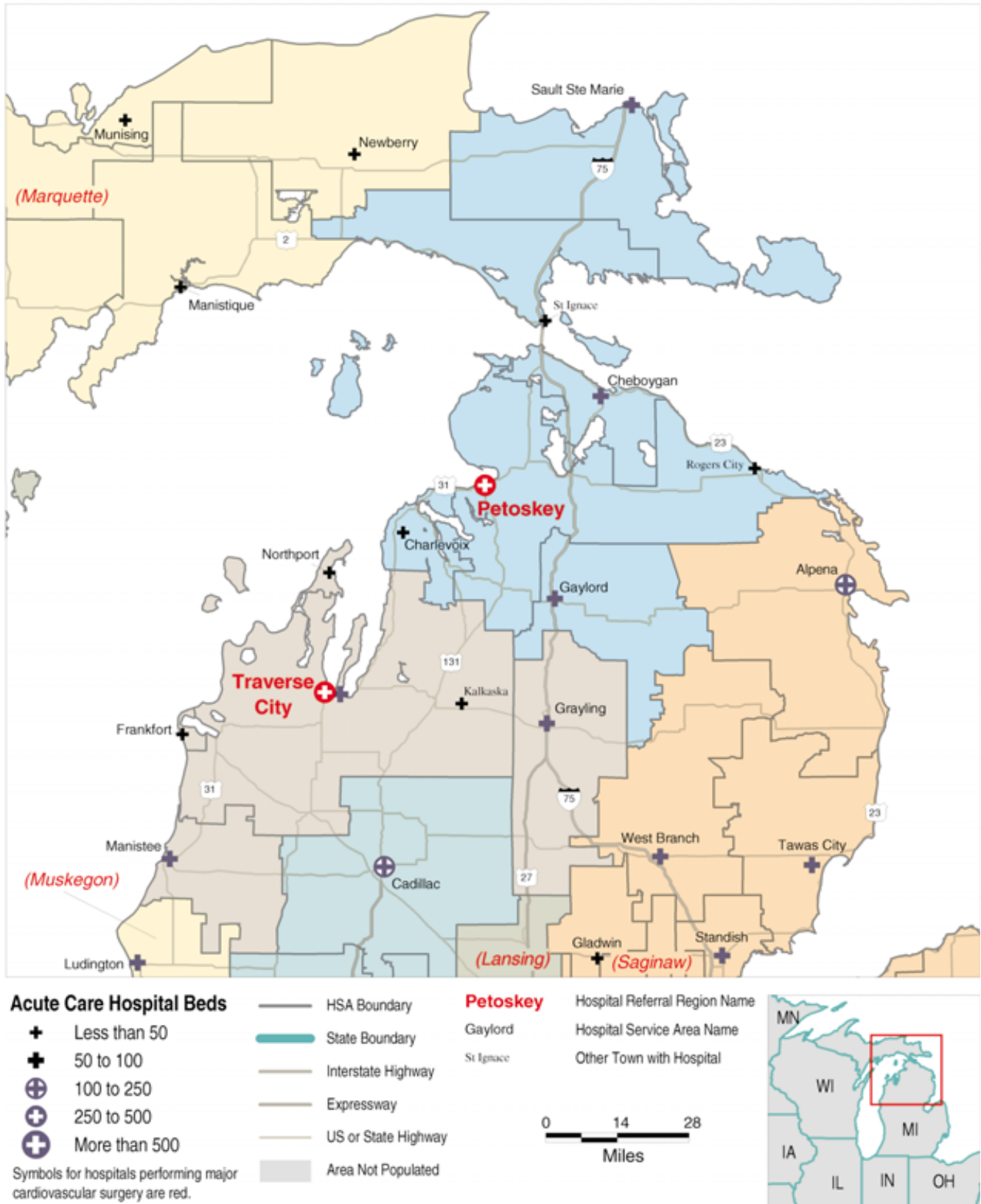
- Kalamazoo** Hospital Referral Region Name
- Coldwater Hospital Service Area Name
- Plainwell Other Town with Hospital



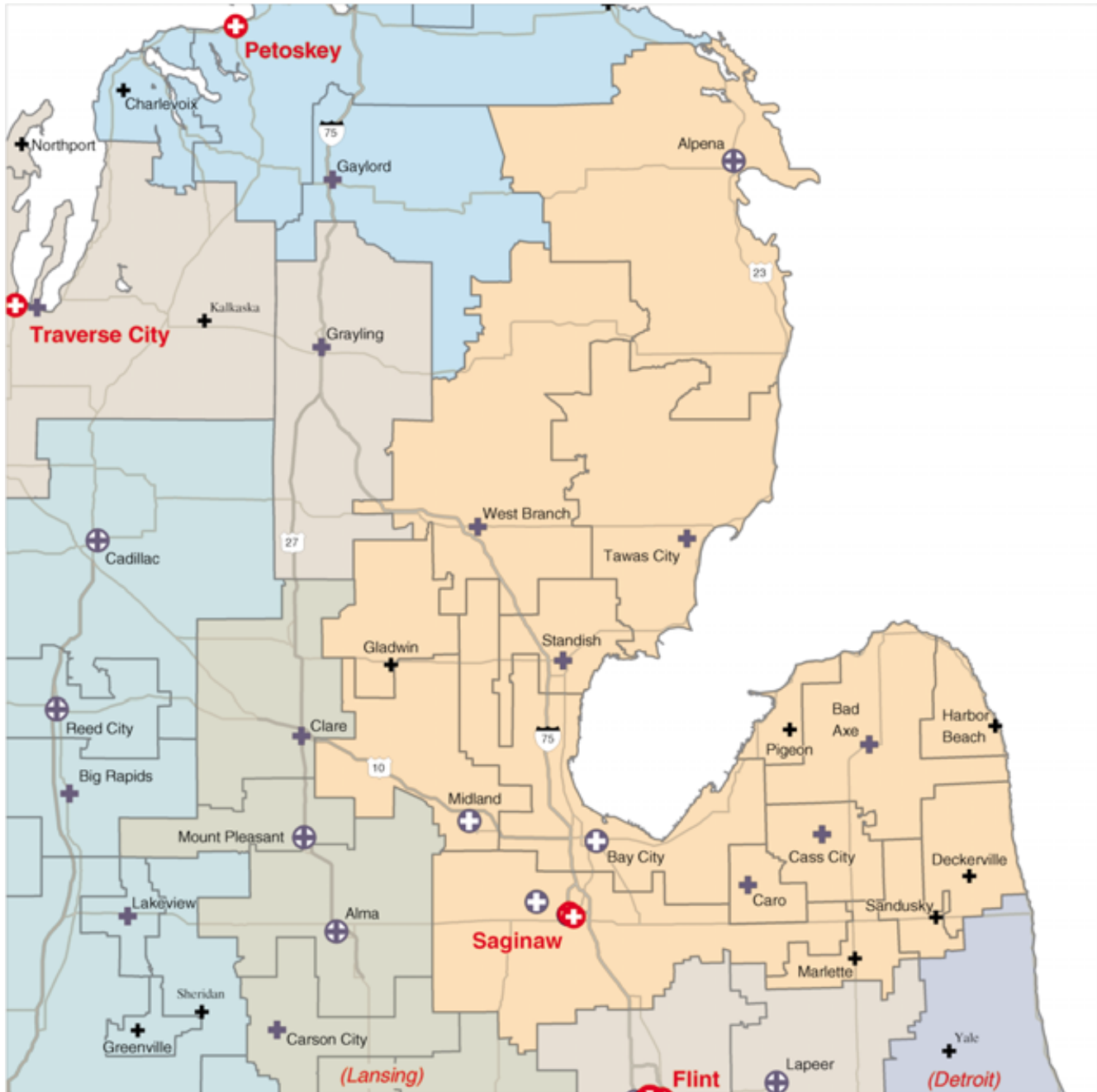
Hospital Service Areas Assigned to the Marquette, MI Hospital Referral Region



Hospital Service Areas Assigned to the Traverse City and Petoskey, MI Hospital Referral Regions



Hospital Service Areas Assigned to the Saginaw, MI Hospital Referral Region



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

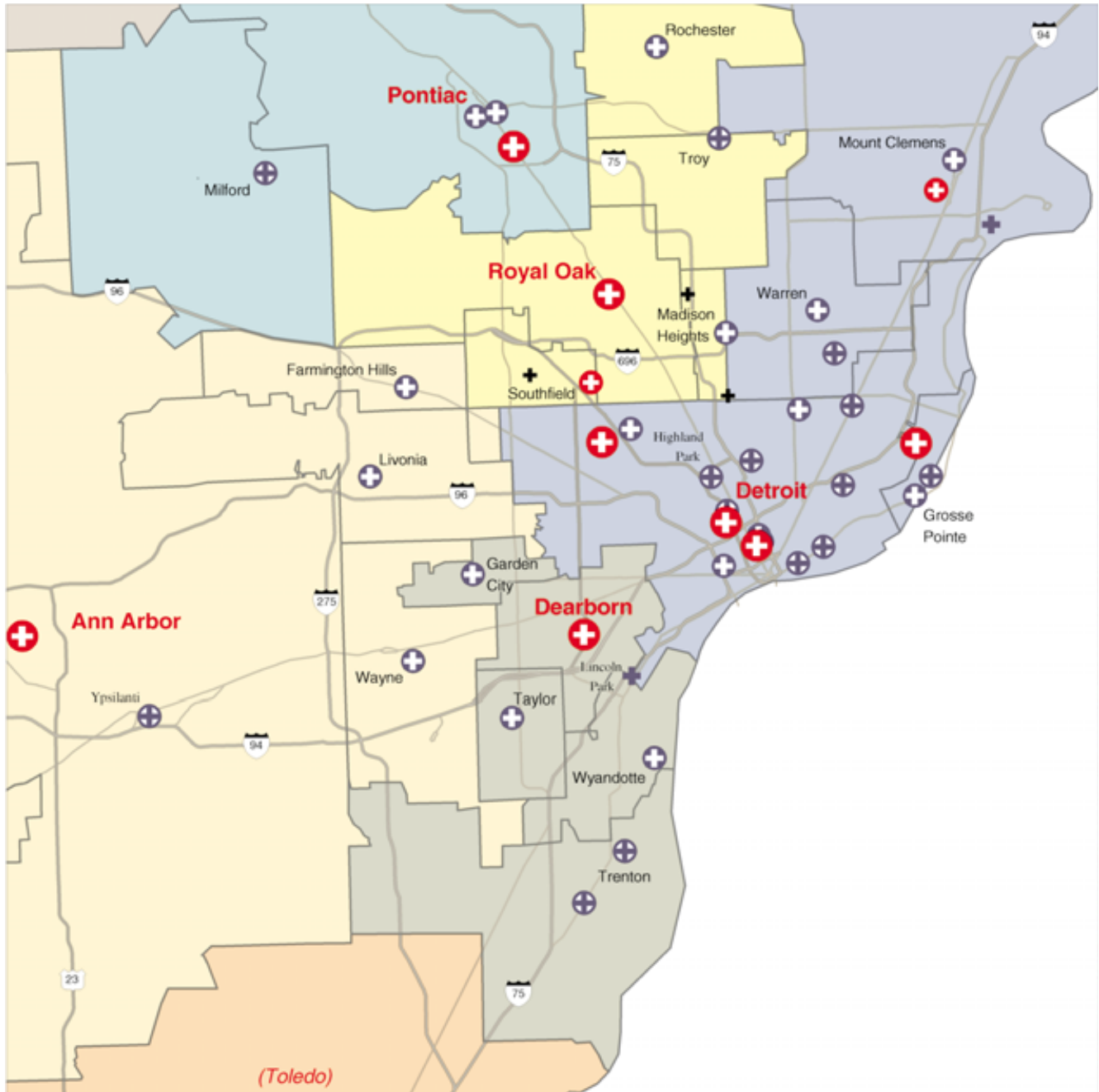
Saginaw

- Alma
- Sheridan

- Hospital Referral Region Name
- Hospital Service Area Name
- Other Town with Hospital



Hospital Service Areas Assigned to the Dearborn, MI Hospital Referral Region



Acute Care Hospital Beds

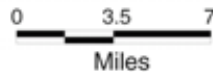
- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

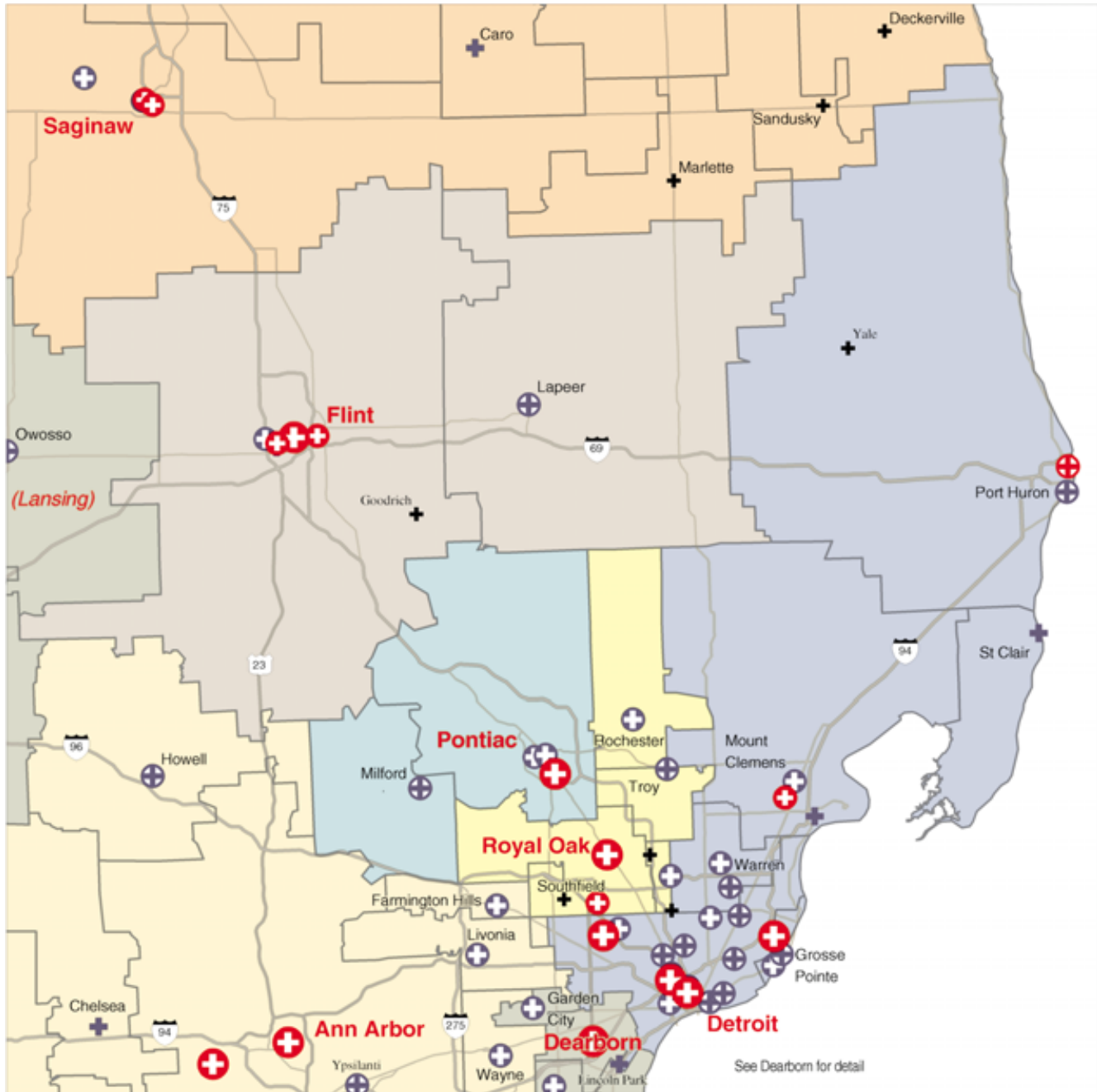
- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Dearborn**
- Taylor
- Lincoln Park

- Hospital Referral Region Name
- Hospital Service Area Name
- Other Town with Hospital



Hospital Service Areas Assigned to the Detroit, Flint, Pontiac and Royal Oak, MI Hospital Referral Regions



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

Detroit

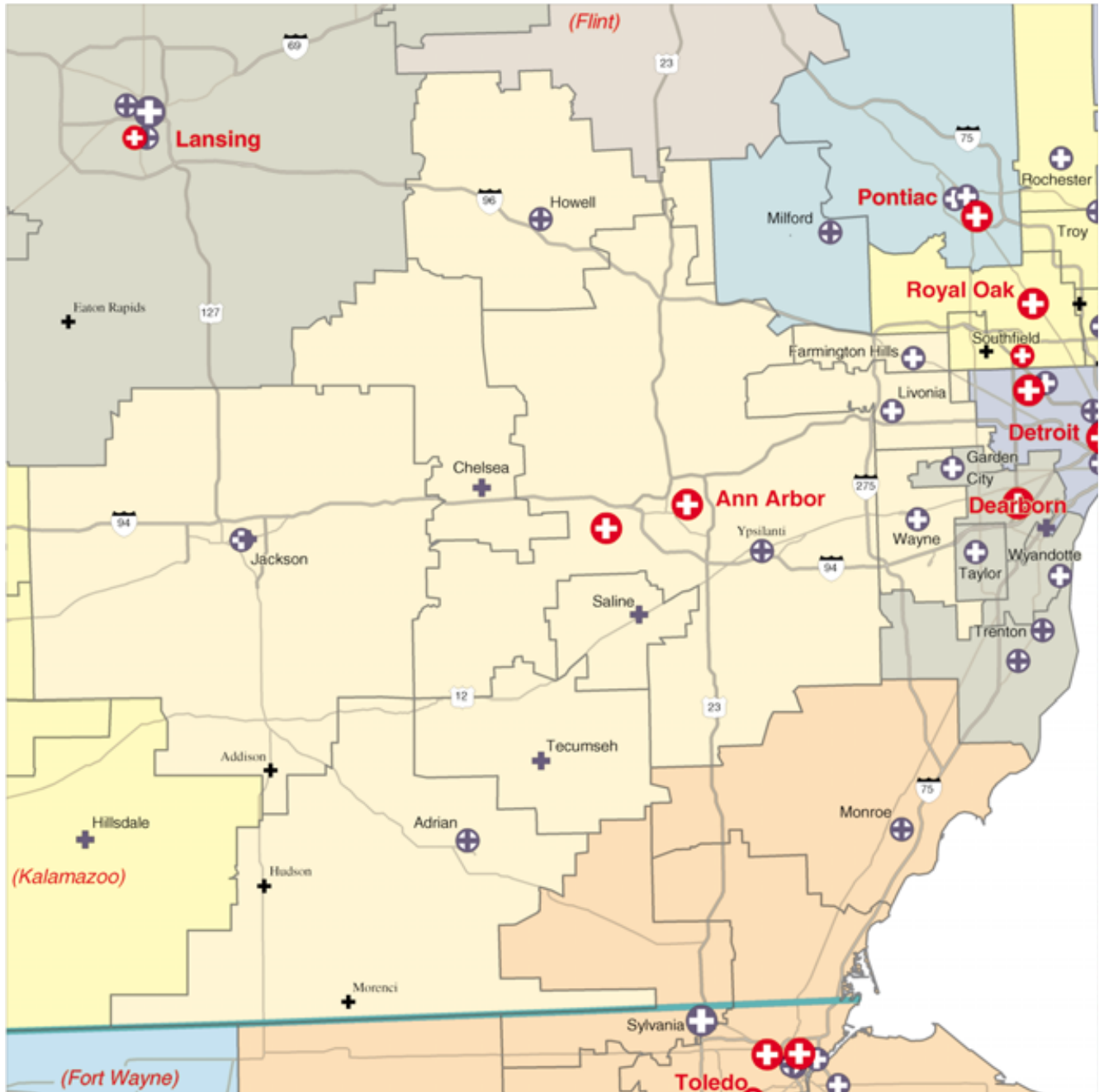
- Warren
- Lincoln Park

Hospital Referral Region Name

- Hospital Service Area Name
- Other Town with Hospital



Hospital Service Areas Assigned to the Ann Arbor, MI Hospital Referral Region



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

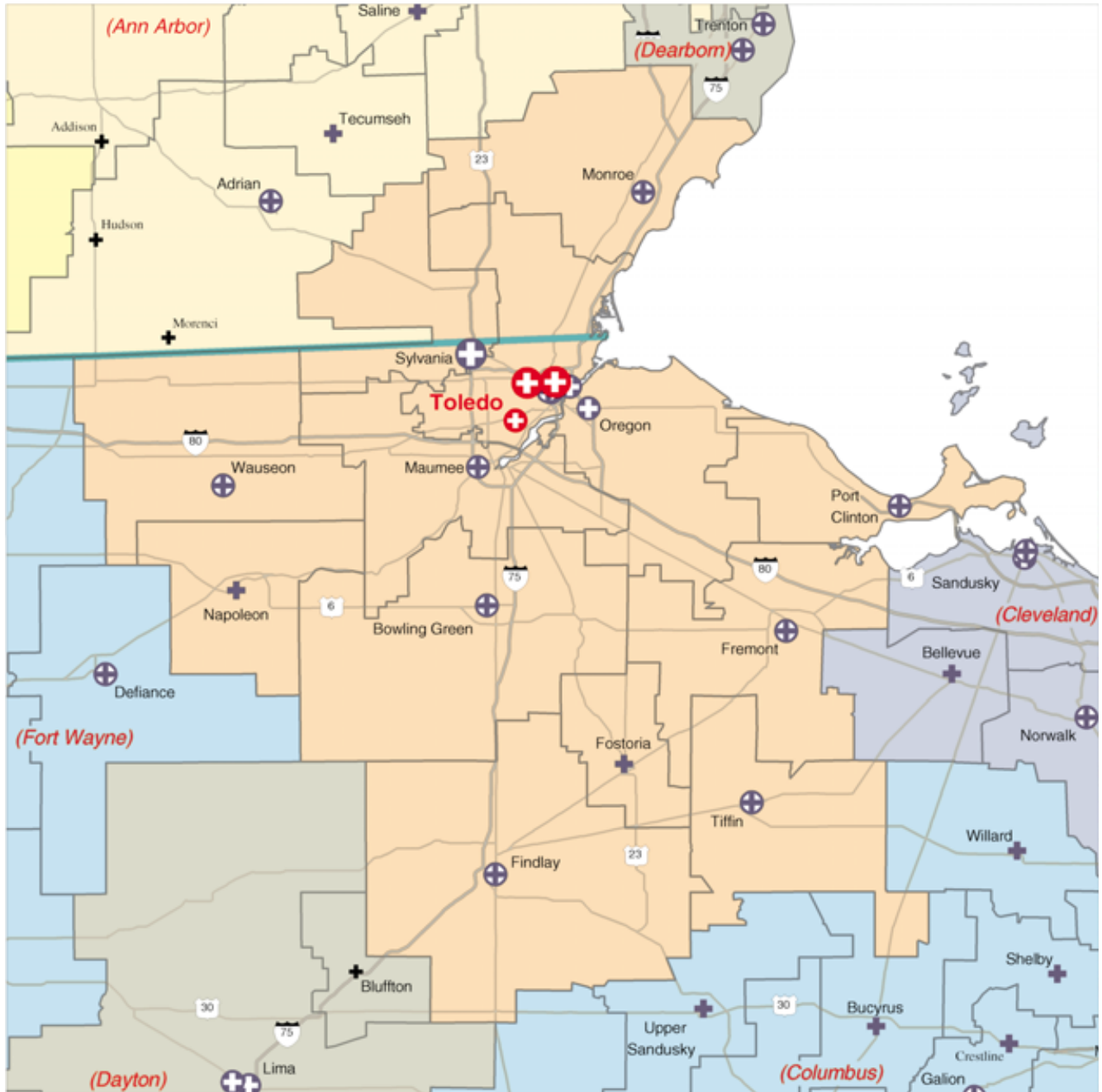
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Ann Arbor** Hospital Referral Region Name
- Wayne Hospital Service Area Name
- Ypsilanti Other Town with Hospital



Hospital Service Areas Assigned to the Toledo, OH Hospital Referral Region



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

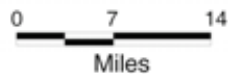
- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

Toledo

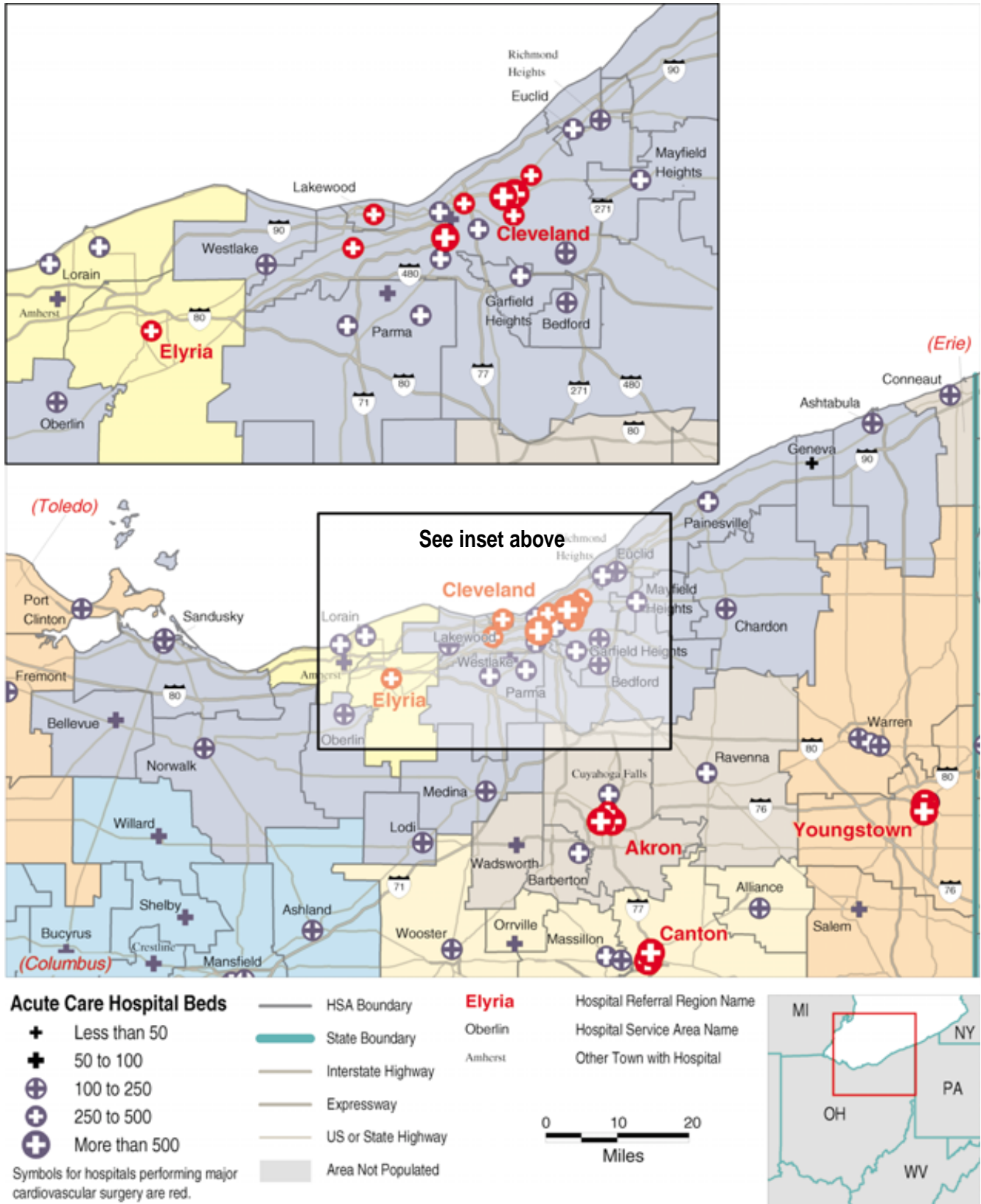
- Sylvania
- Hudson

Hospital Referral Region Name

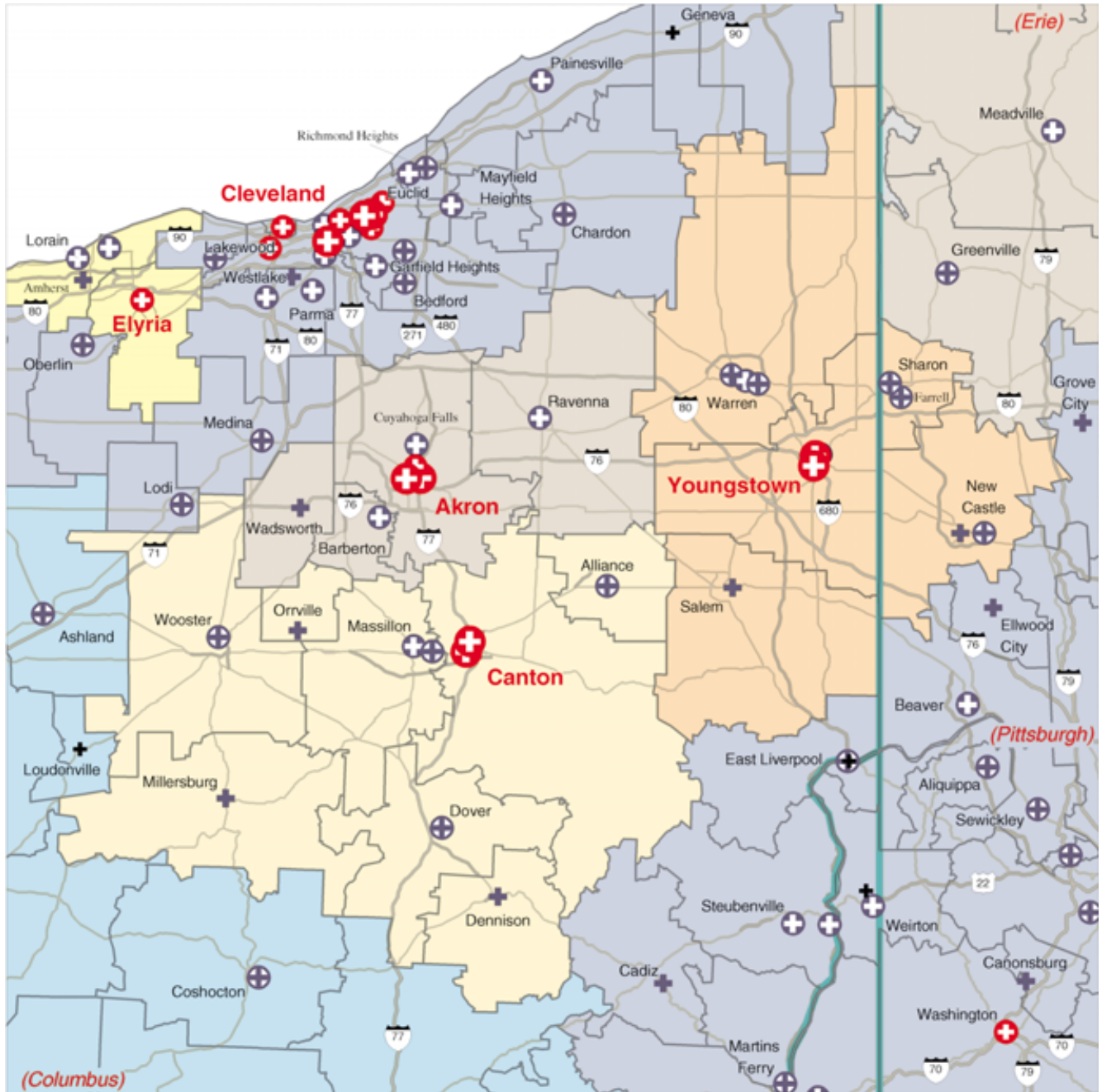
- Hospital Service Area Name
- Other Town with Hospital



Hospital Service Areas Assigned to the Cleveland and Elyria, OH Hospital Referral Regions



Hospital Service Areas Assigned to the Akron, Canton and Youngstown, OH Hospital Referral Regions



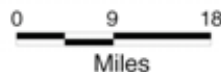
Acute Care Hospital Beds

- + Less than 50
- ⊕ 50 to 100
- ⊕⊕ 100 to 250
- ⊕⊕⊕ 250 to 500
- ⊕⊕⊕⊕ More than 500

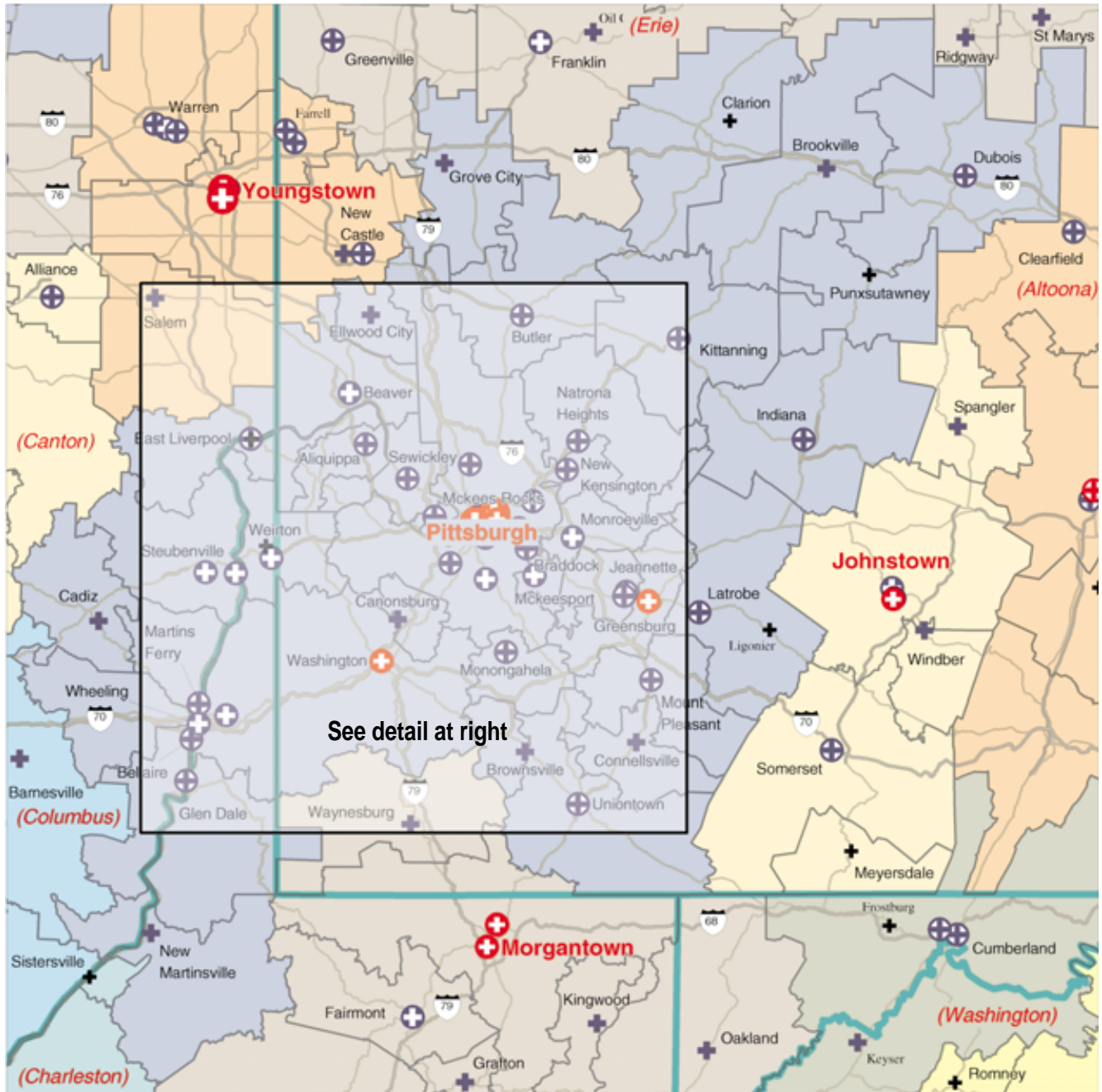
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Akron** Hospital Referral Region Name
- Ravenna Hospital Service Area Name
- Cuyahoga Falls Other Town with Hospital



Hospital Service Areas Assigned to the Pittsburgh, PA Hospital Referral Region



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

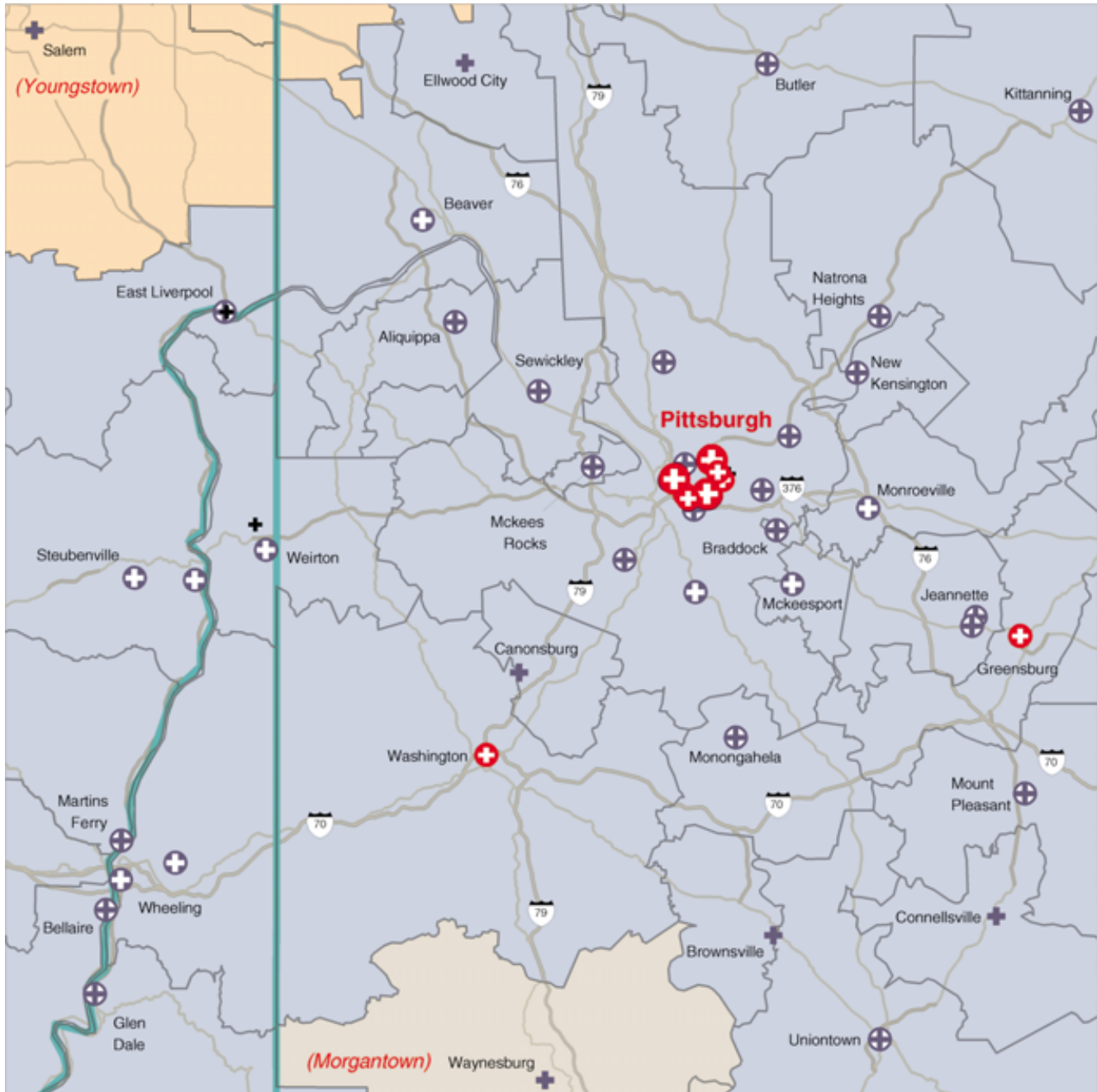
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Pittsburgh** Hospital Referral Region Name
- Latrobe Hospital Service Area Name
- Farmington Other Town with Hospital



Detail of Hospital Service Areas Assigned to the Pittsburgh, PA Hospital Referral Region



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

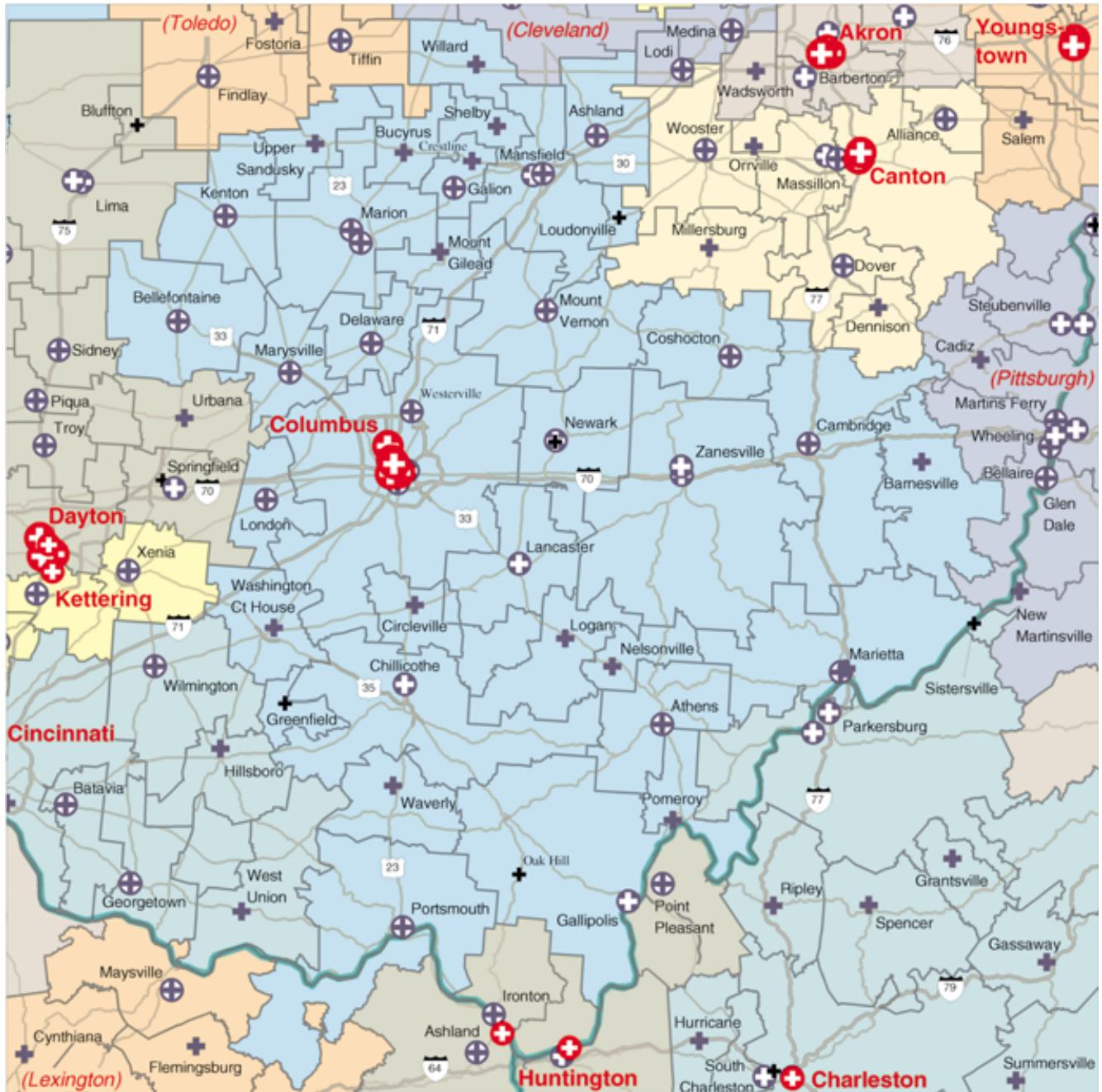
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Pittsburgh** Hospital Referral Region Name
- McKeesport Hospital Service Area Name
- Ligonier Other Town with Hospital



Hospital Service Areas Assigned to the Columbus, OH Hospital Referral Region



Acute Care Hospital Beds

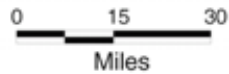
- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

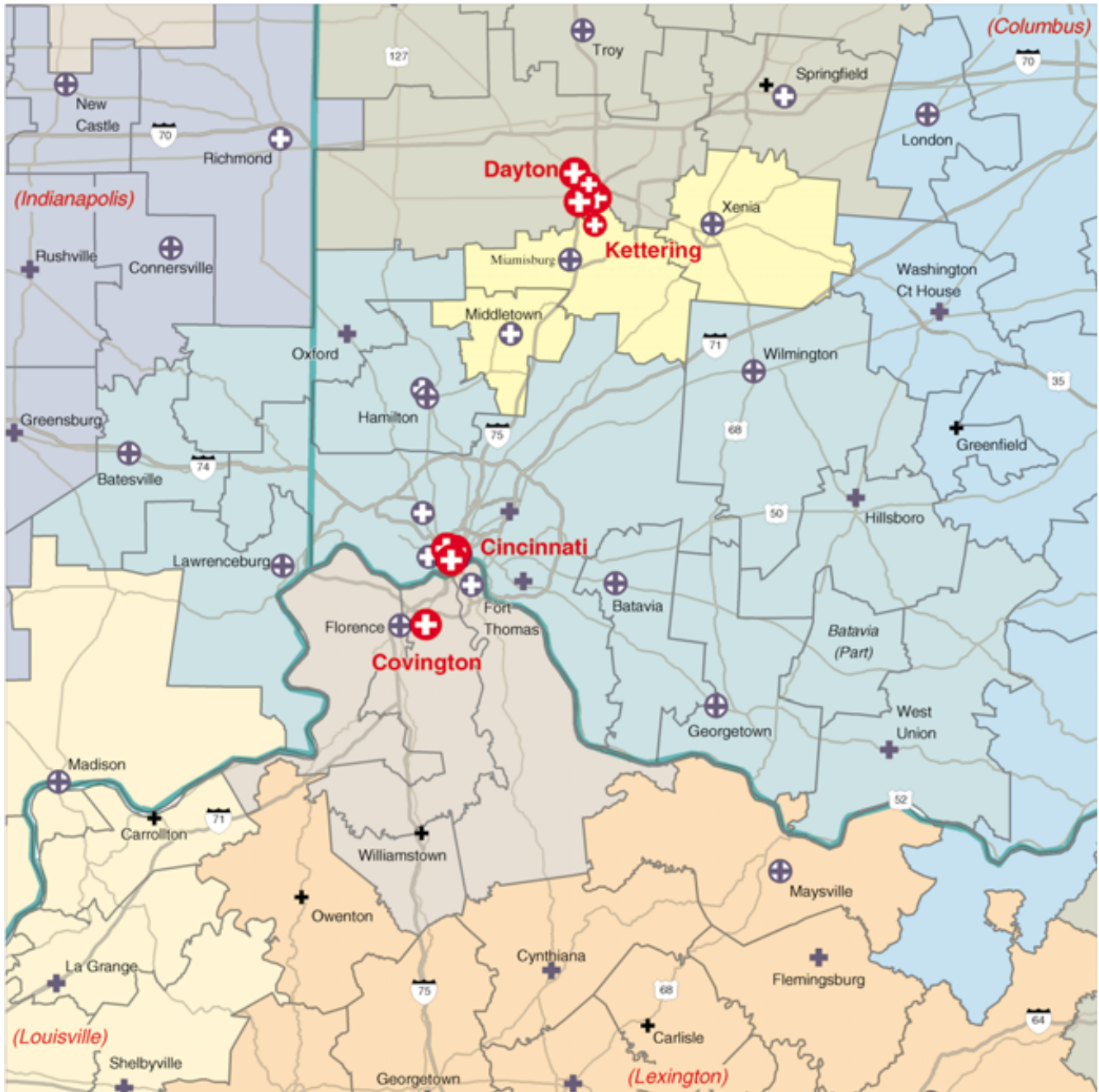
- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Miami**
- Hialeah
- Avventura

- Hospital Referral Region Name
- Hospital Service Area Name
- Other Town with Hospital



Hospital Service Areas Assigned to the Cincinnati, OH, and Covington, KY Hospital Referral Regions



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

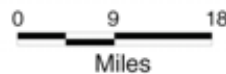
- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

Cincinnati

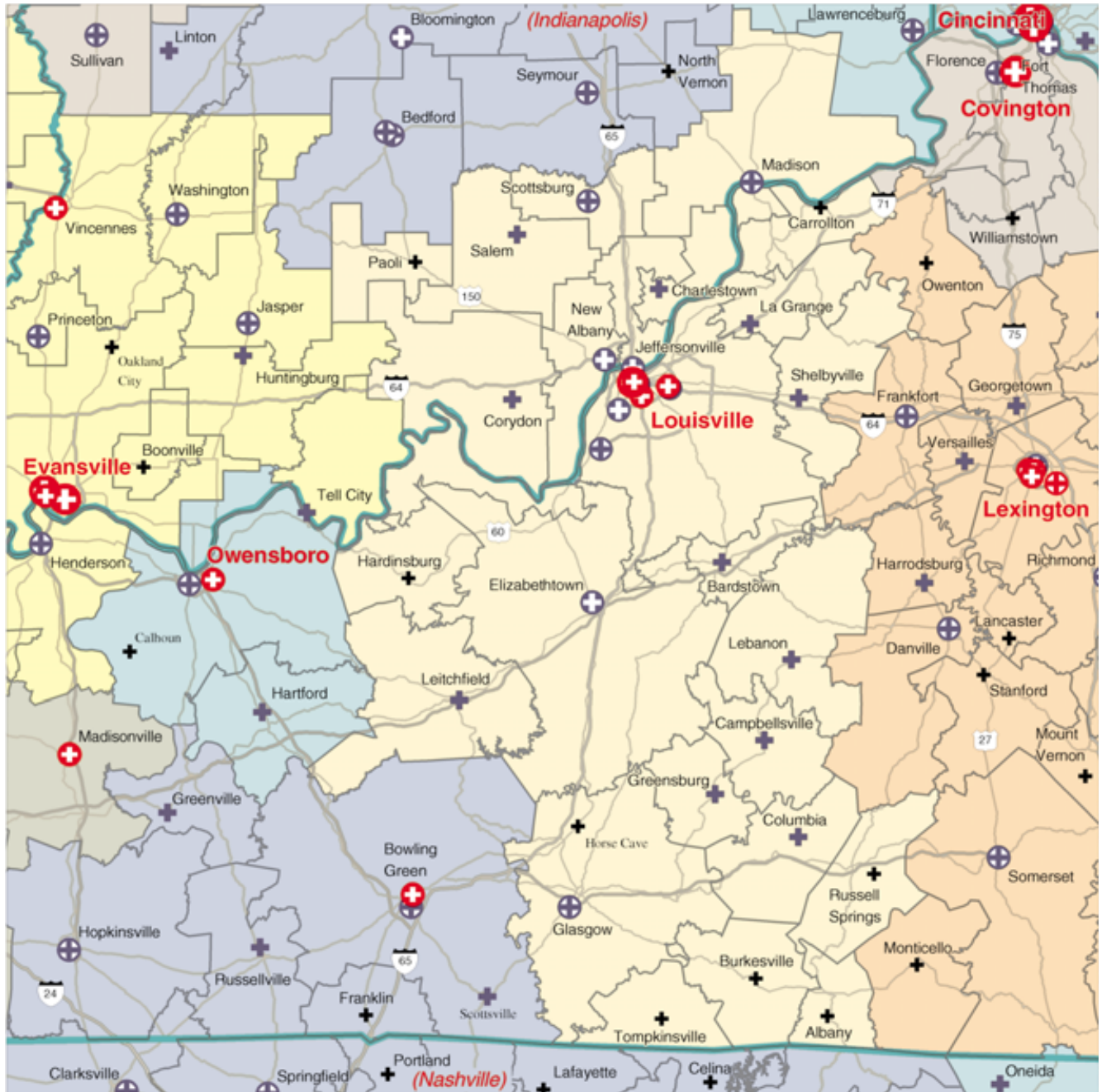
- Hamilton
- Miamisburg

Hospital Referral Region Name

- Hospital Service Area Name
- Other Town with Hospital



Hospital Service Areas Assigned to the Louisville, KY Hospital Referral Region



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

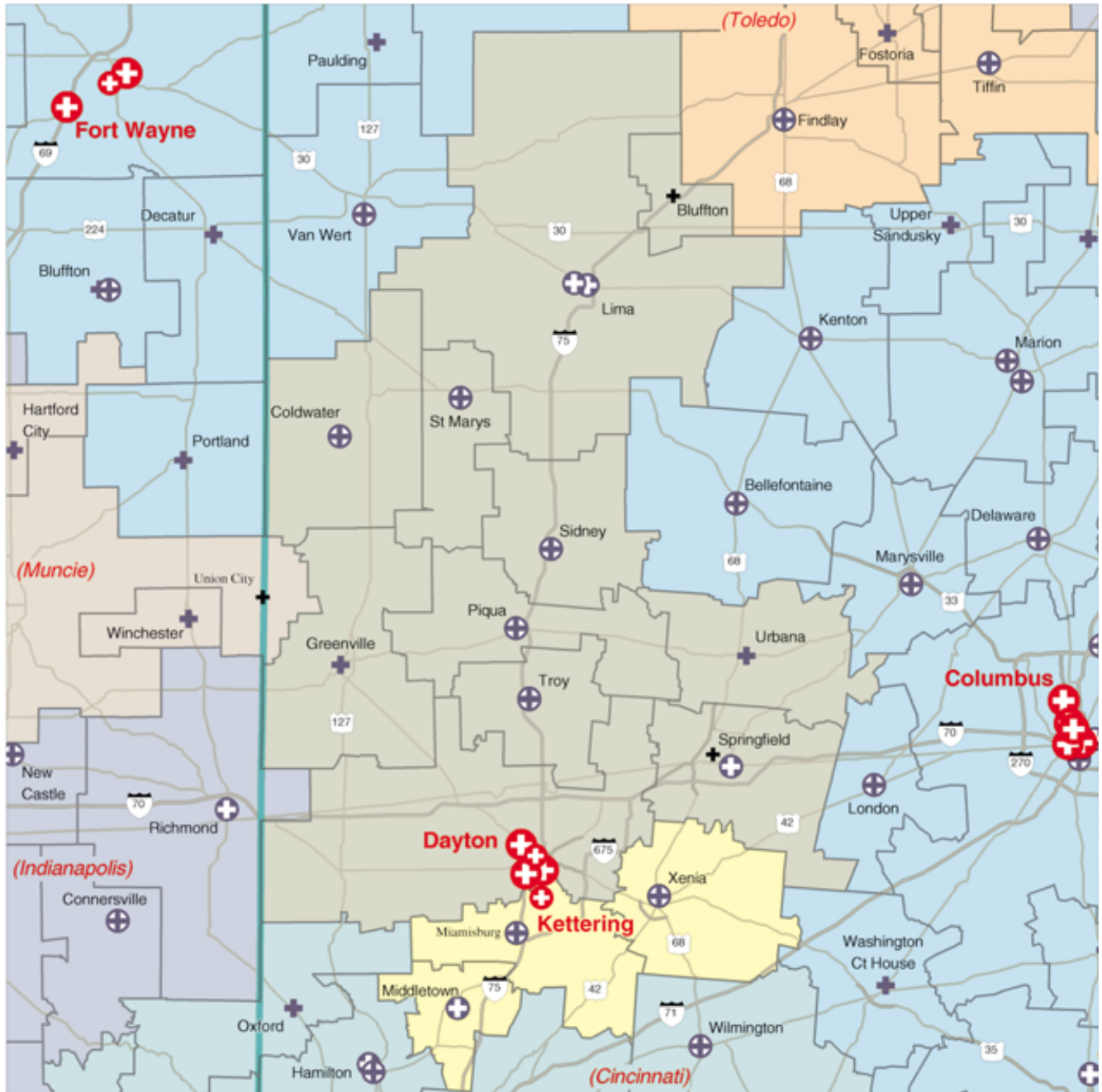
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Louisville** Hospital Referral Region Name
- Glasgow Hospital Service Area Name
- Horse Cave Other Town with Hospital



Hospital Service Areas Assigned to the Dayton and Kettering, OH Hospital Referral Regions



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

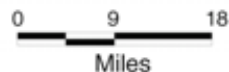
- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

Dayton

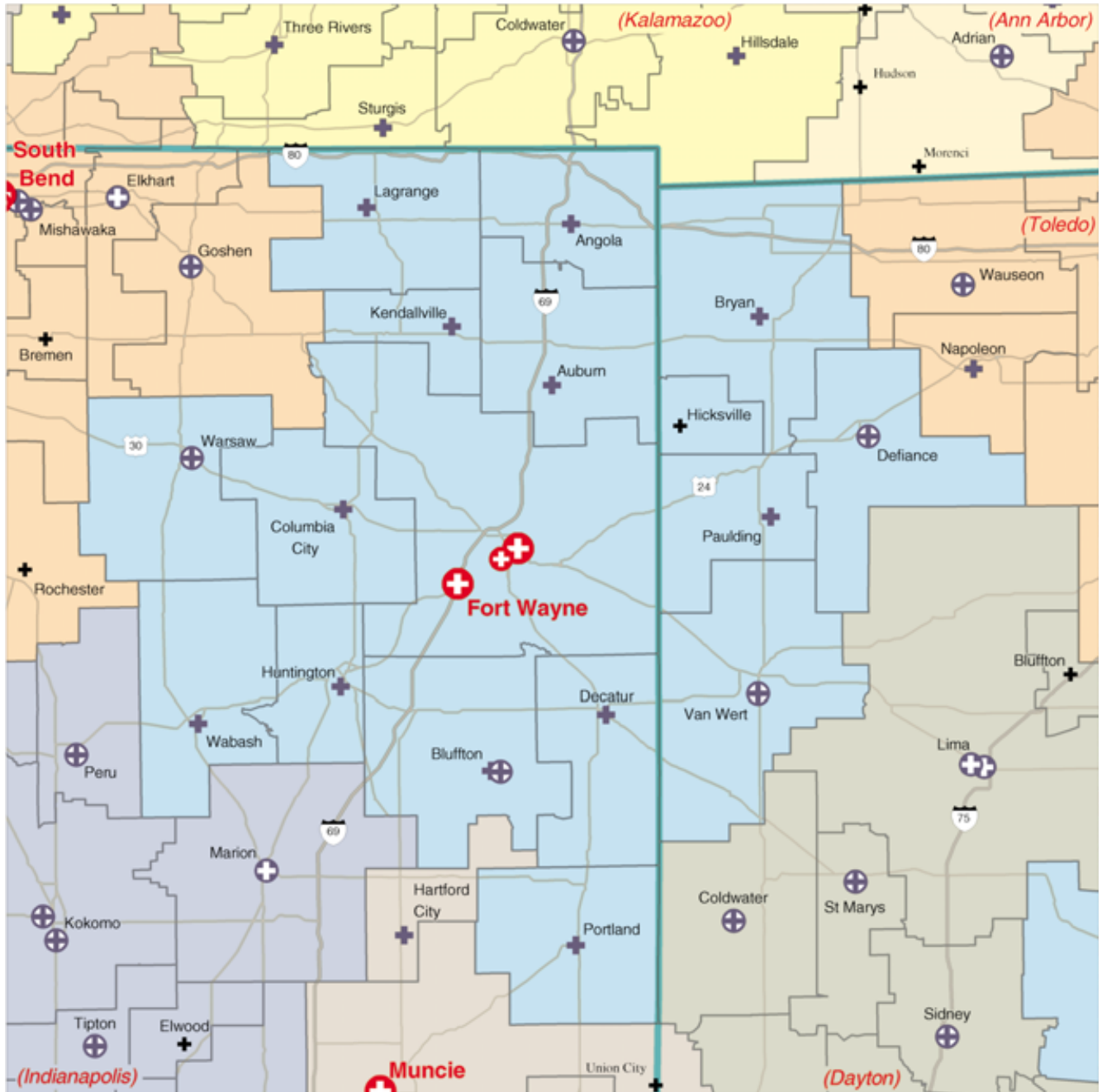
- Troy
- Miamisburg

Hospital Referral Region Name

- Hospital Service Area Name
- Other Town with Hospital



Hospital Service Areas Assigned to the Fort Wayne, IN Hospital Referral Region



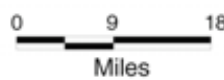
Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

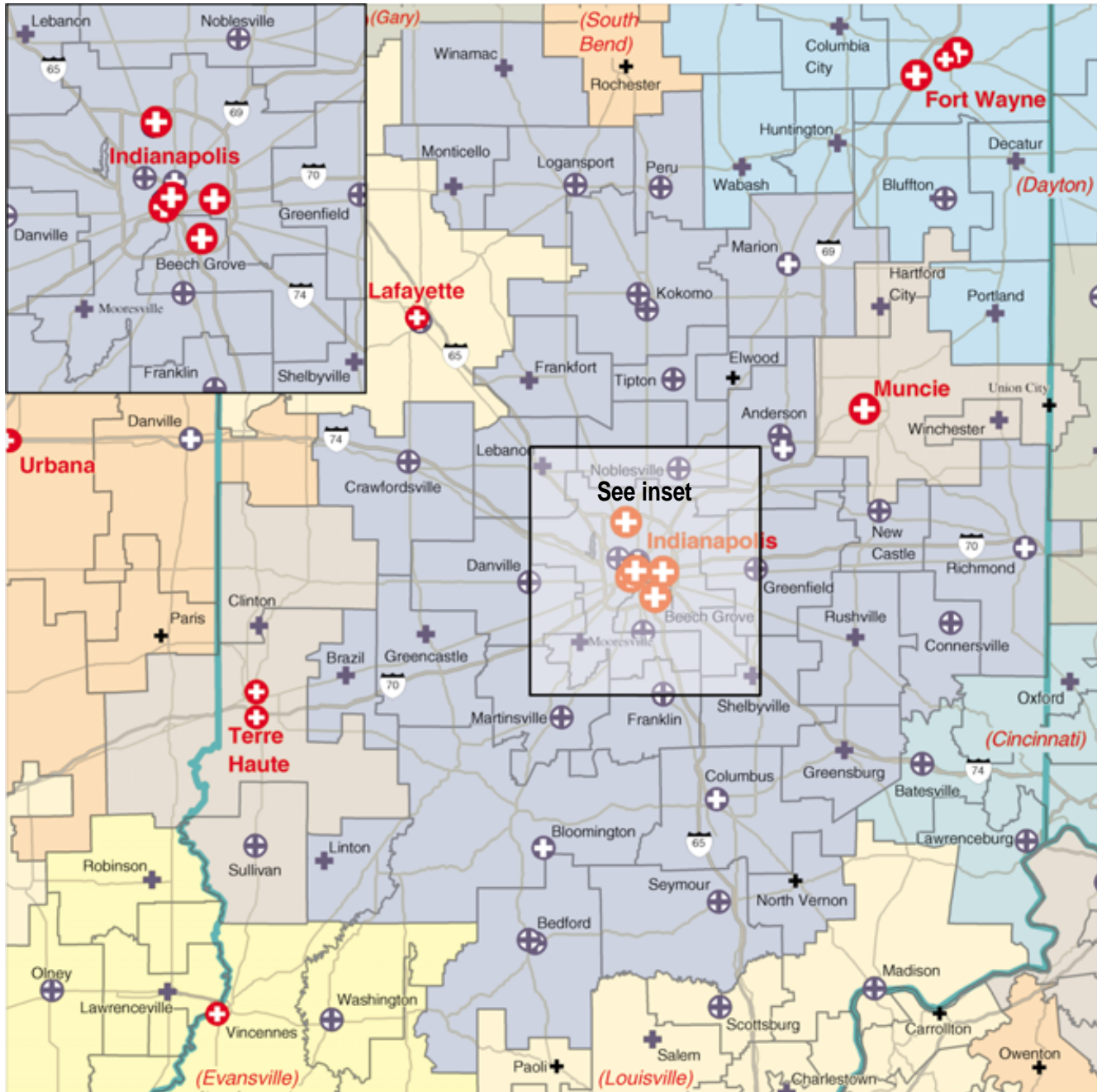
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Fort Wayne** Hospital Referral Region Name
- Warsaw Hospital Service Area Name
- Morenci Other Town with Hospital



Hospital Service Areas Assigned to the Indianapolis, Muncie, and Terre Haute, IN Hospital Referral Regions



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

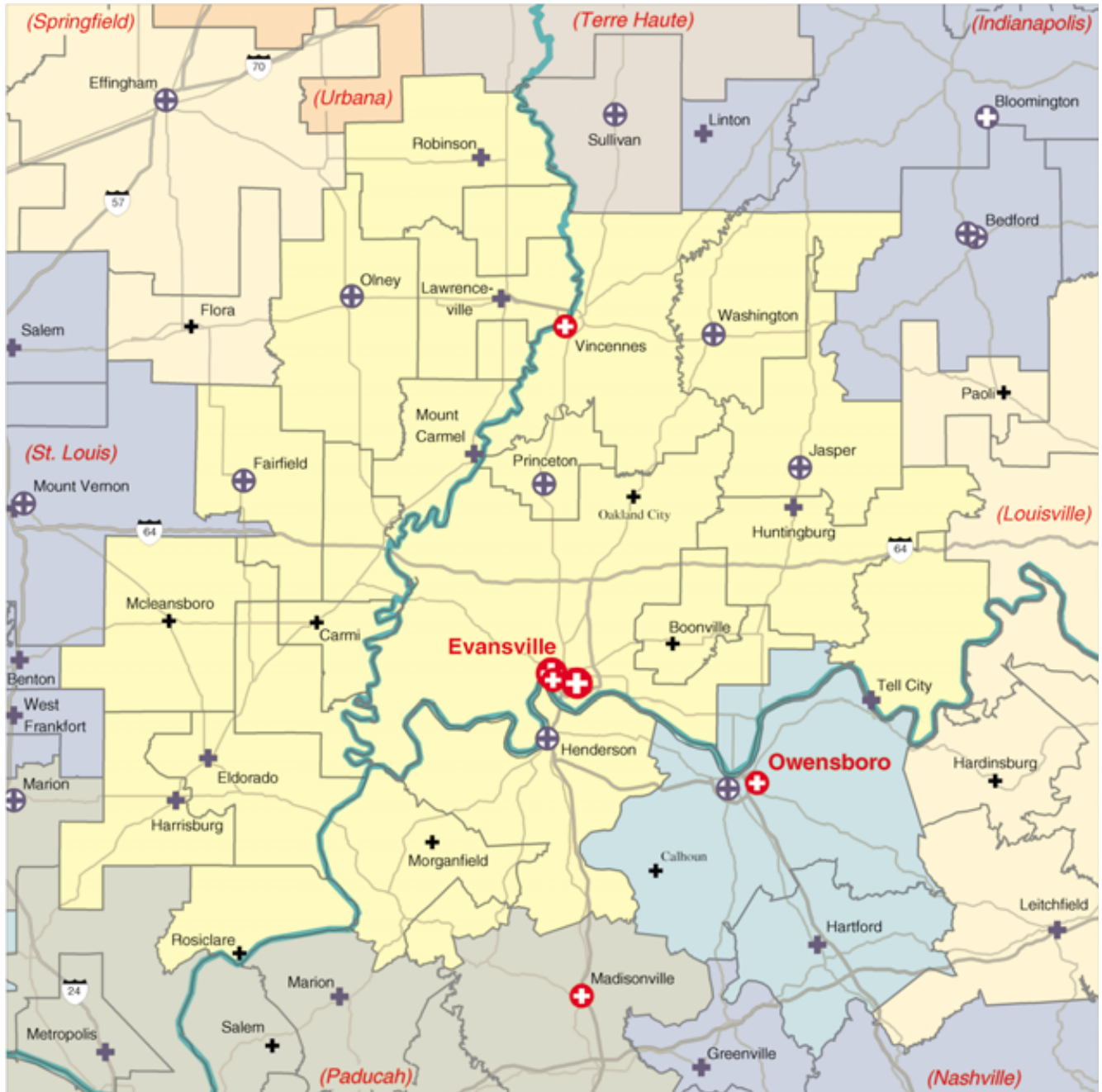
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Indianapolis** Hospital Referral Region Name
- Franklin Hospital Service Area Name
- Mooresville Other Town with Hospital



Hospital Service Areas Assigned to the Evansville, IN and Owensboro, KY Hospital Referral Regions



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

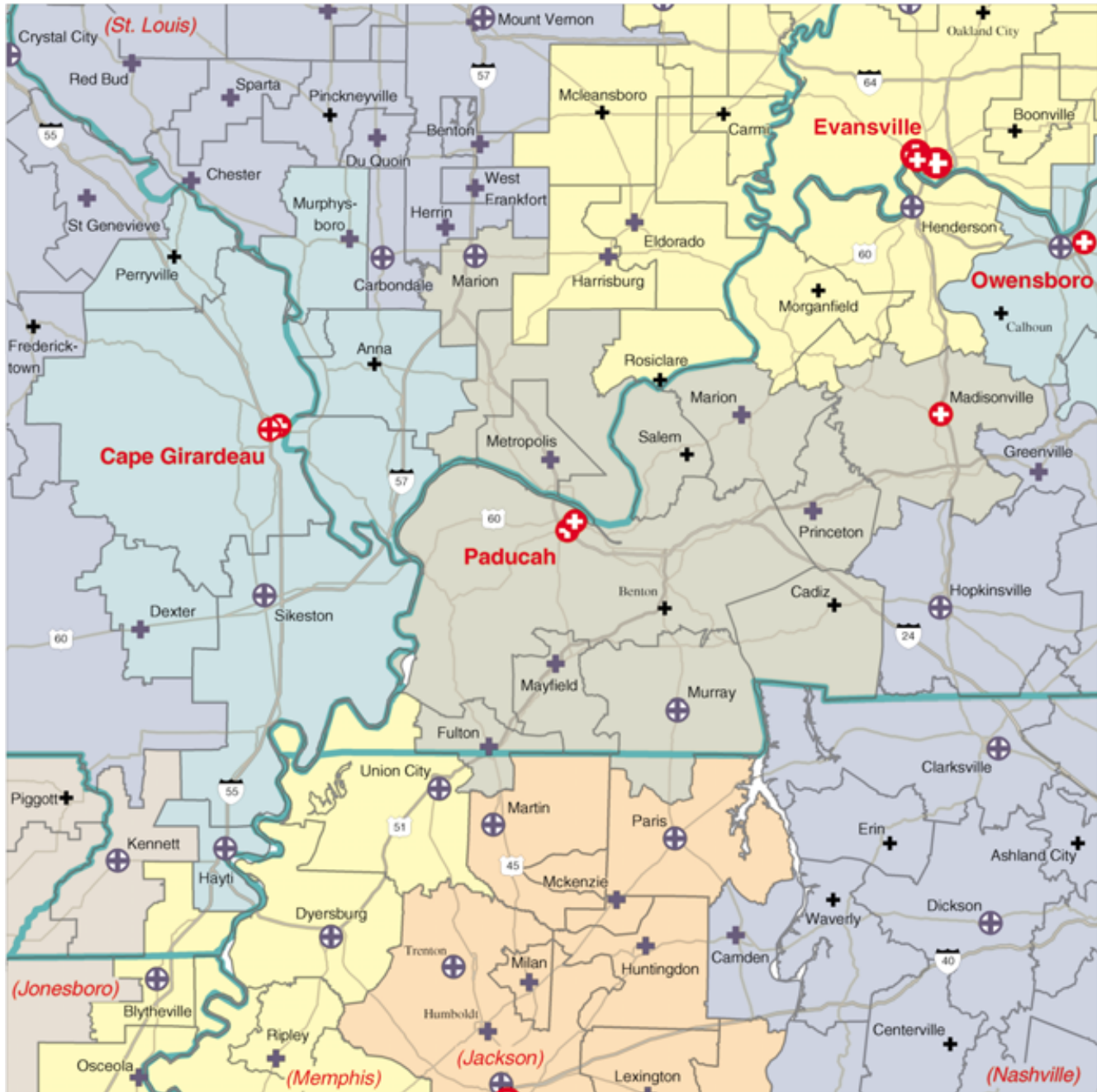
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Evansville** Hospital Referral Region Name
- Princeton Hospital Service Area Name
- Oakland City Other Town with Hospital



Hospital Service Areas Assigned to the Paducah, KY and Cape Girardeau, MO Hospital Referral Regions



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

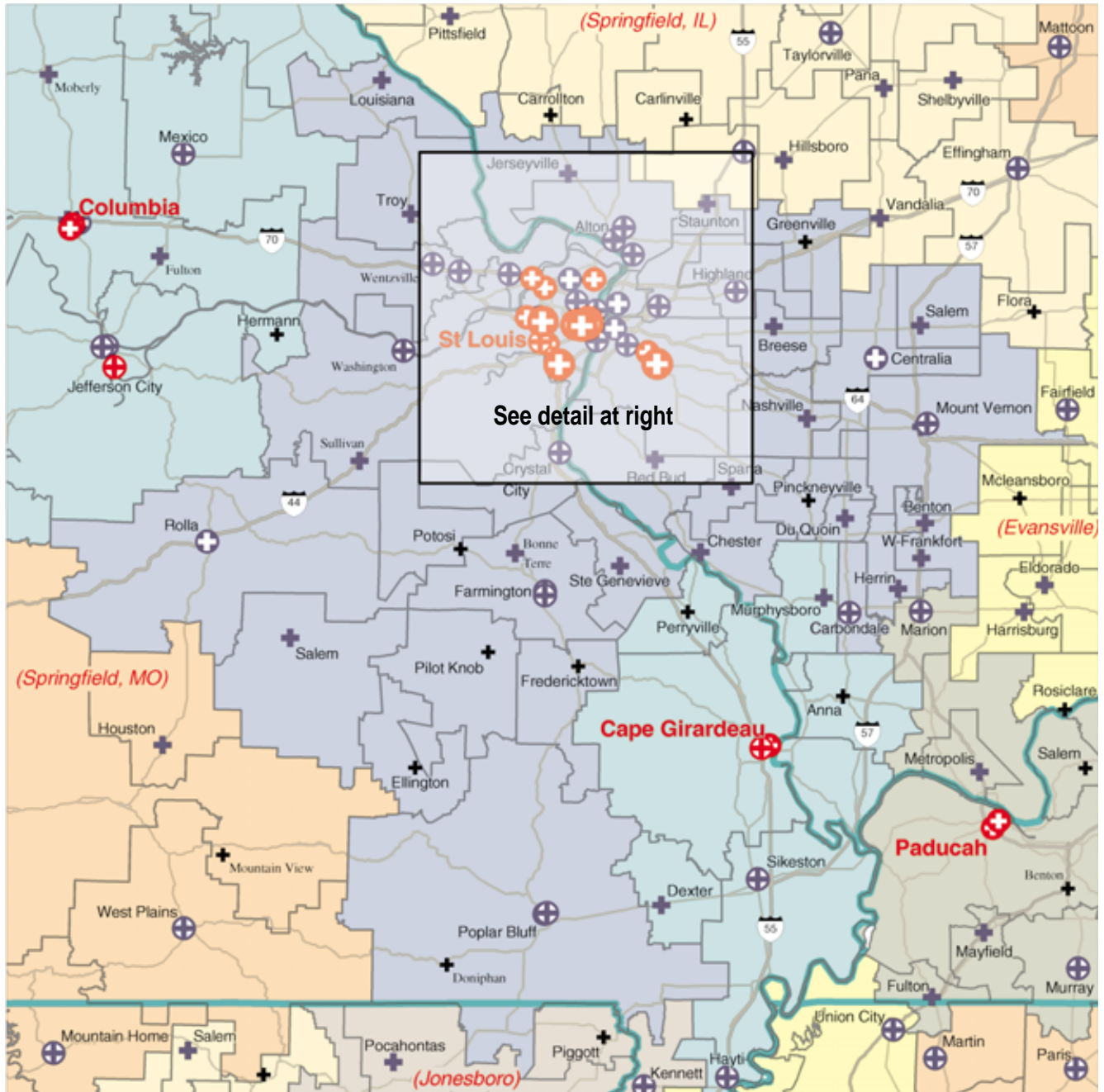
Paducah

- Murray
- Benton

- Hospital Referral Region Name
- Hospital Service Area Name
- Other Town with Hospital



Hospital Service Areas Assigned to the St. Louis, MO Hospital Referral Region



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

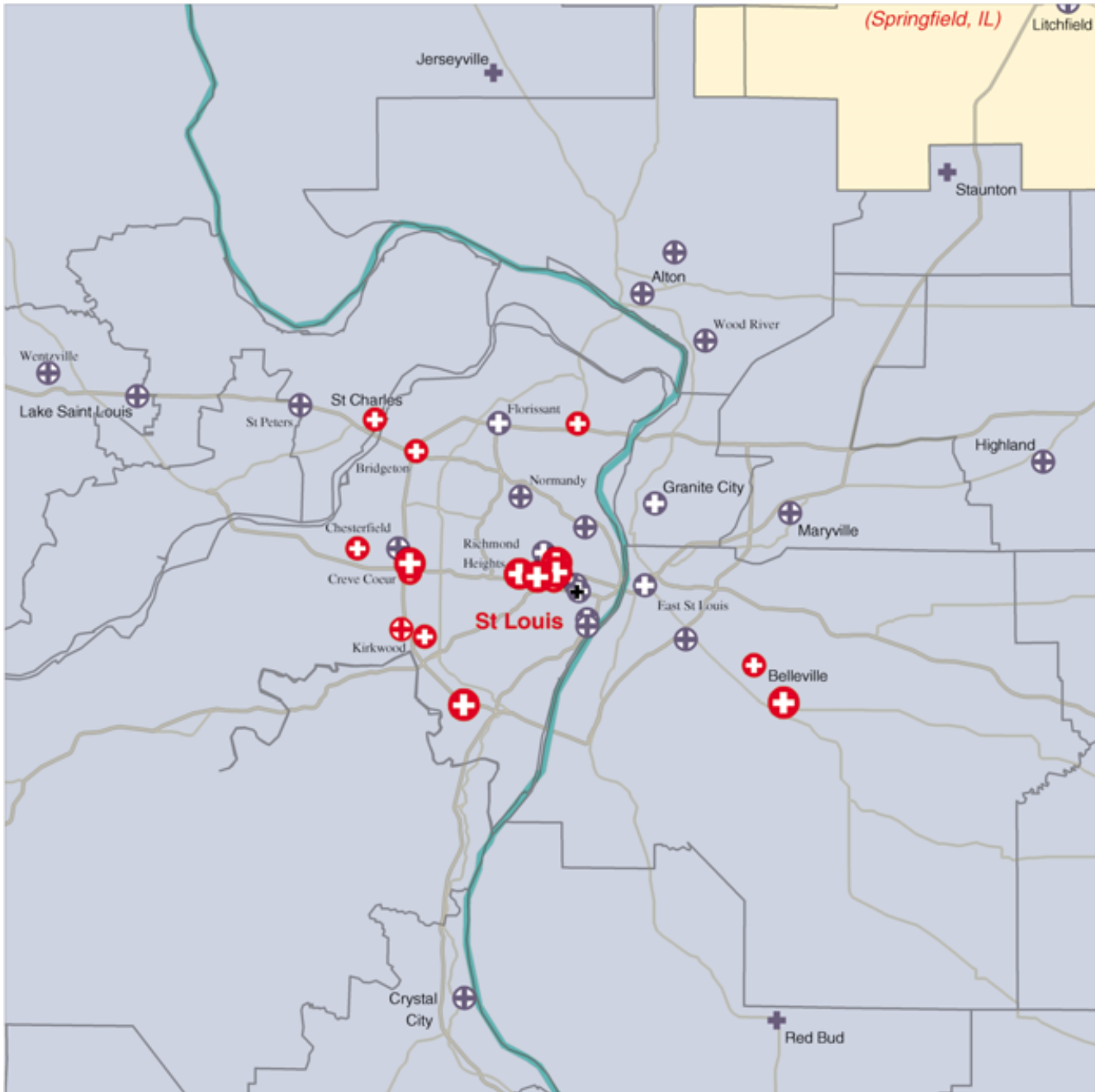
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Paducah** Hospital Referral Region Name
- Sikeston Hospital Service Area Name
- Doniphan Other Town with Hospital



Detail of Hospital Service Areas Assigned to the St. Louis, MO Hospital Referral Region



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

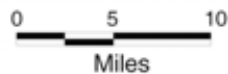
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

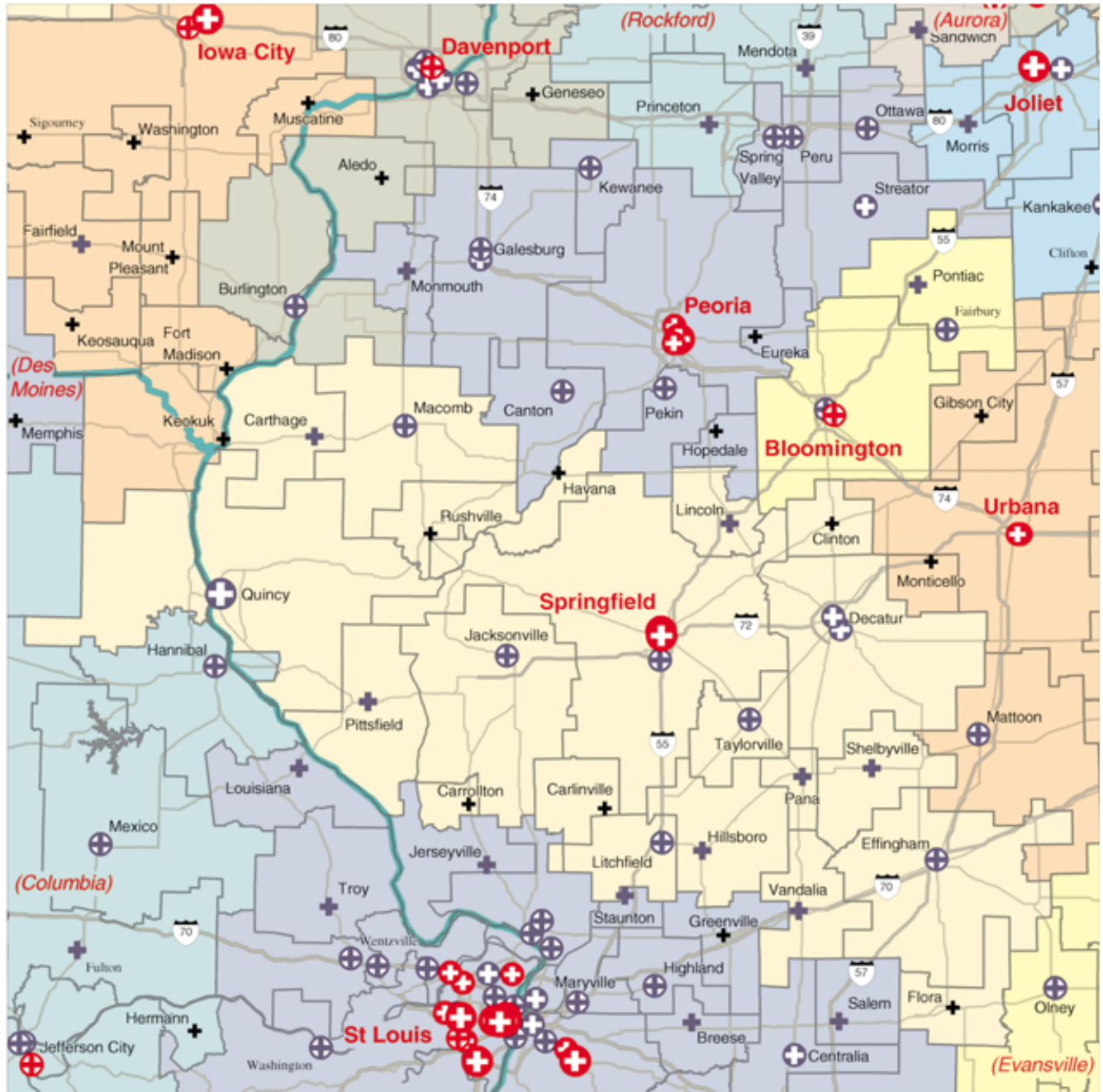
St Louis

- Maryville
- Kirkwood

- Hospital Referral Region Name
- Hospital Service Area Name
- Other Town with Hospital



Hospital Service Areas Assigned to the Springfield and Peoria, IL Hospital Referral Regions



Acute Care Hospital Beds

- + Less than 50
- ⊕ 50 to 100
- ⊕⊕ 100 to 250
- ⊕⊕⊕ 250 to 500
- ⊕⊕⊕⊕ More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

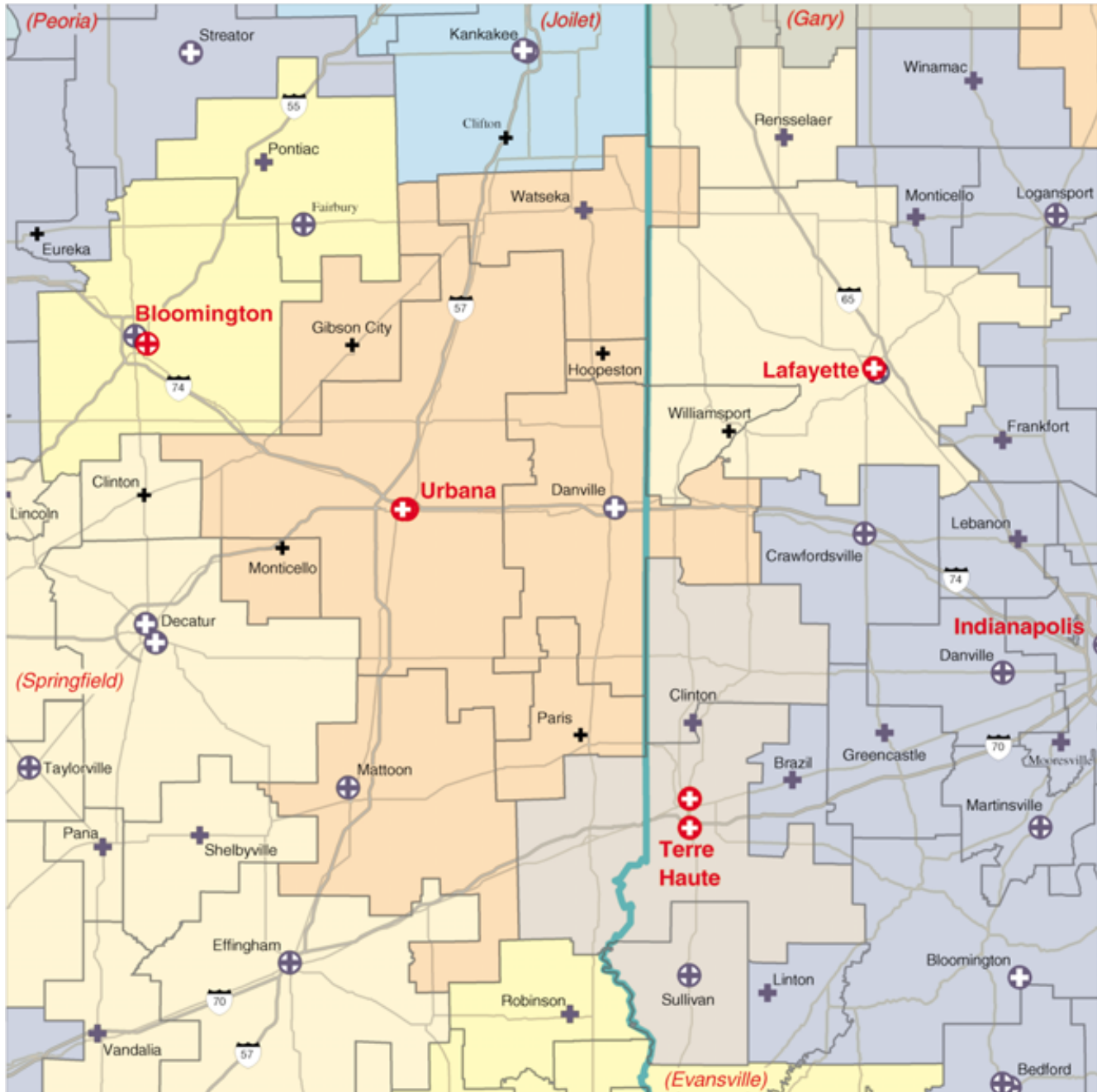
- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

Peoria
Streator
Fairbury

Hospital Referral Region Name
Hospital Service Area Name
Other Town with Hospital



Hospital Service Areas Assigned to the Bloomington and Urbana, IL Hospital Referral Regions



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

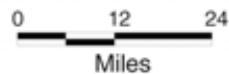
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

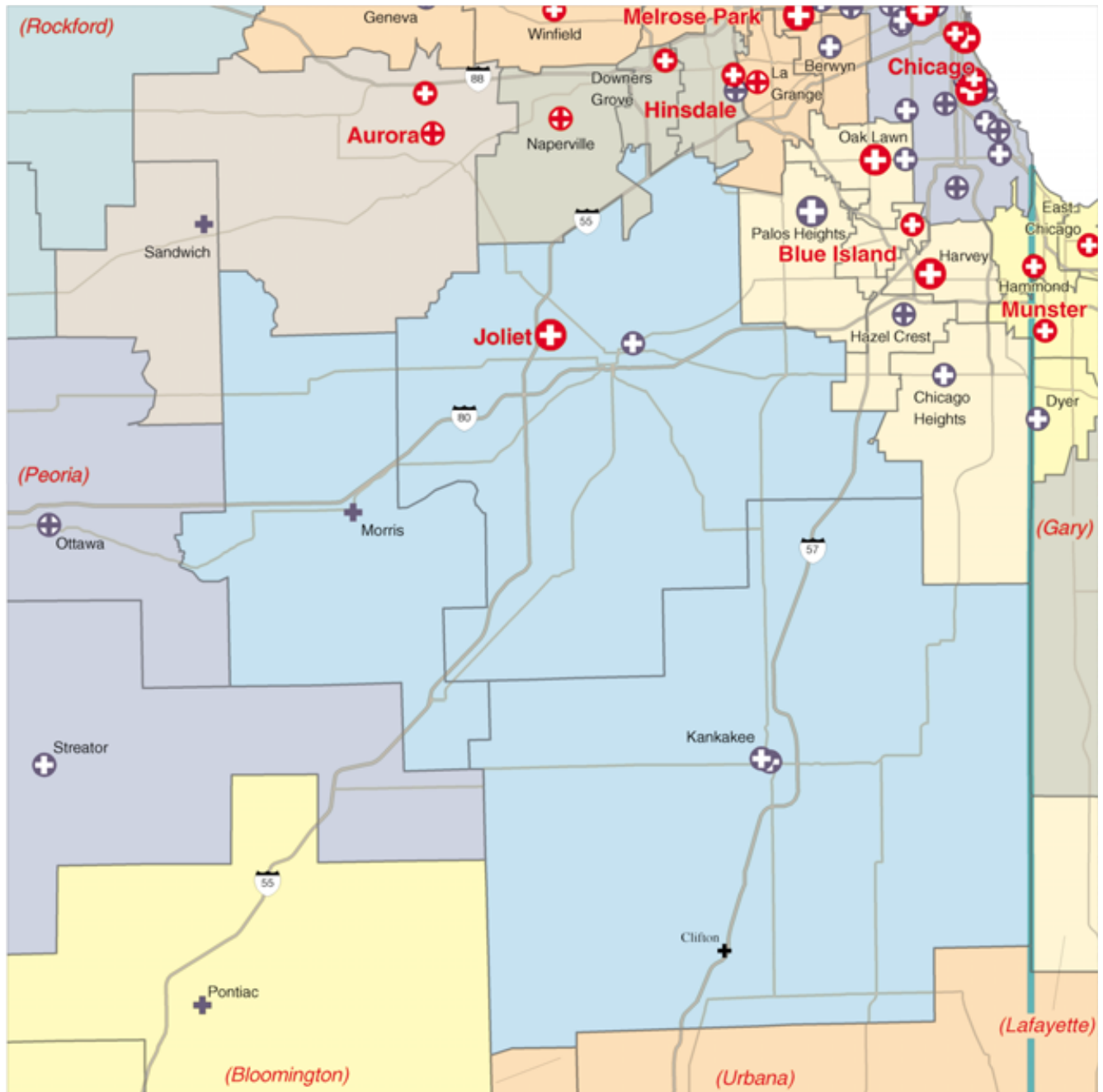
Urbana

- Decatur
- Fairbury

- Hospital Referral Region Name
- Hospital Service Area Name
- Other Town with Hospital



Hospital Service Areas Assigned to the Aurora and Joliet, IL Hospital Referral Regions



Acute Care Hospital Beds

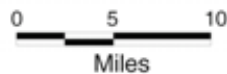
- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

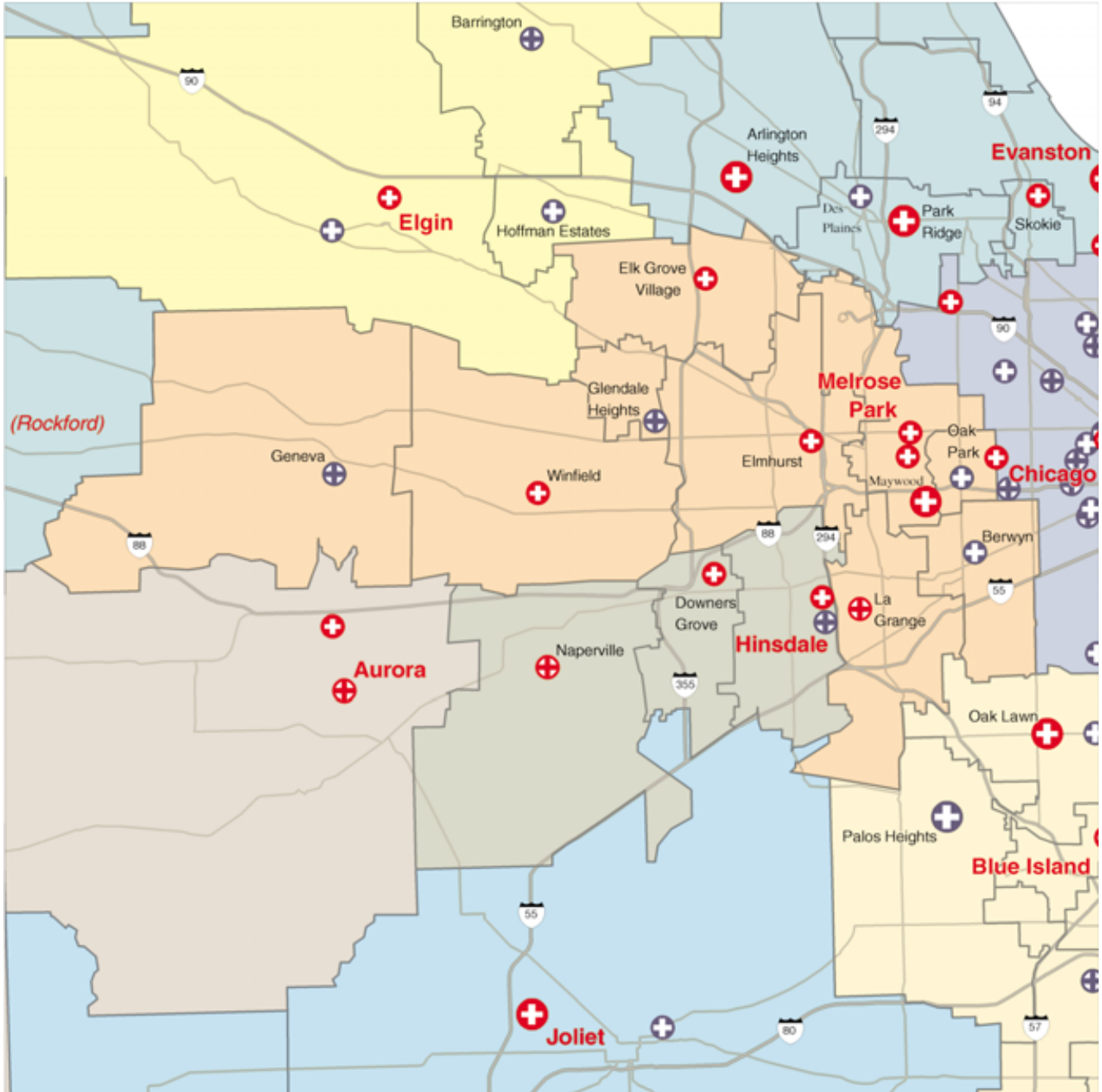
- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

Joliet
Kankakee
Clifton

Hospital Referral Region Name
Hospital Service Area Name
Other Town with Hospital



Hospital Service Areas Assigned to the Hinsdale and Melrose Park, IL Hospital Referral Regions



Acute Care Hospital Beds

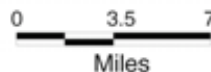
- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

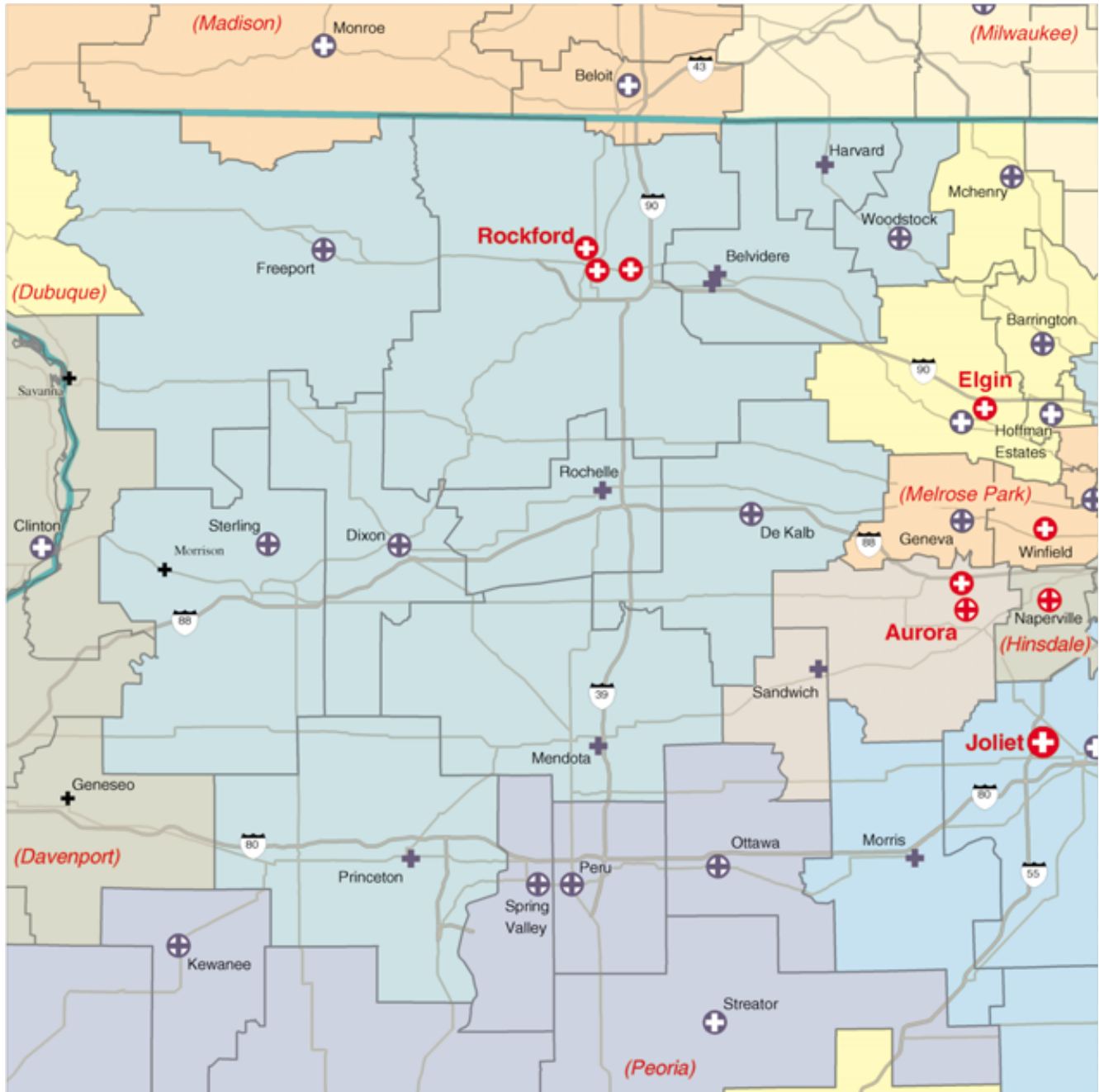
- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Hinsdale**
- Elmhurst
- Maywood

- Hospital Referral Region Name
- Hospital Service Area Name
- Other Town with Hospital



Hospital Service Areas Assigned to the Rockford, IL Hospital Referral Region



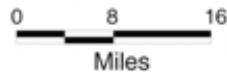
Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

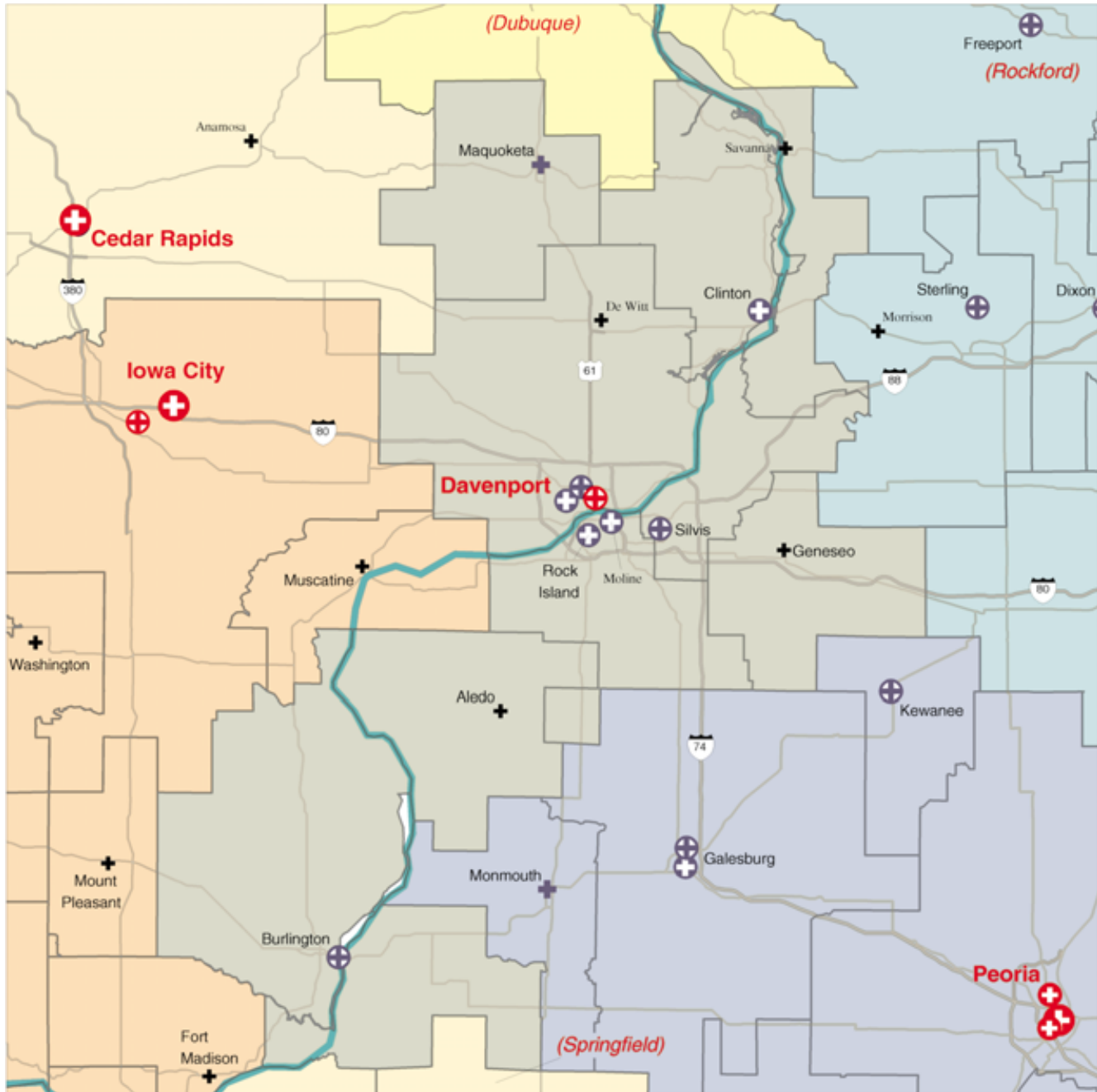
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Rockford** Hospital Referral Region Name
- Sterling Hospital Service Area Name
- Morrison Other Town with Hospital



Hospital Service Areas Assigned to the Davenport, IA Hospital Referral Region



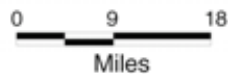
Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

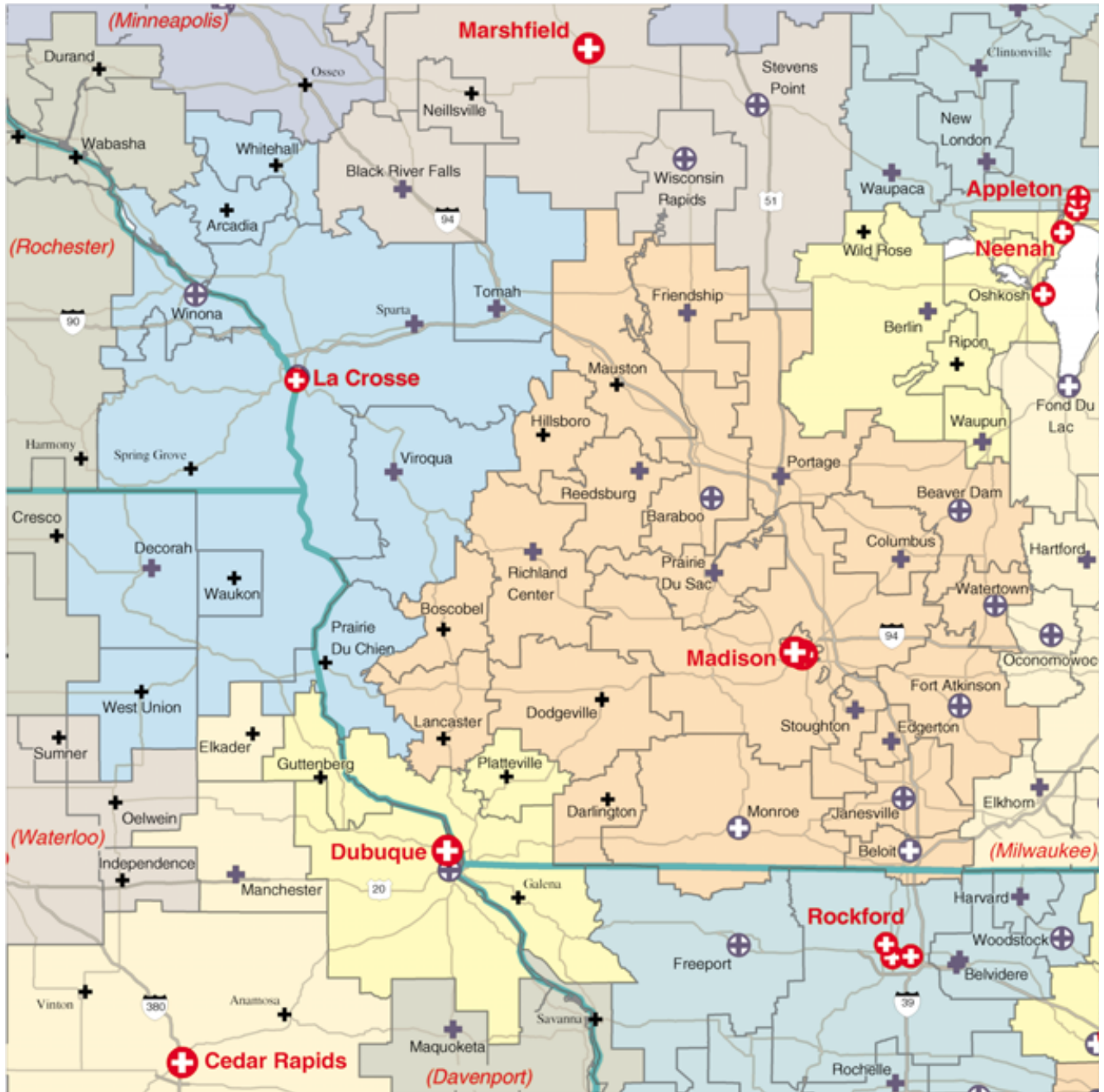
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Davenport** Hospital Referral Region Name
- Clinton Hospital Service Area Name
- De Witt Other Town with Hospital



Hospital Service Areas Assigned to the Madison and La Crosse, WI and Dubuque, IA Hospital Referral Regions



Acute Care Hospital Beds

- + Less than 50
- ⊕ 50 to 100
- ⊕ 100 to 250
- ⊕ 250 to 500
- ⊕ More than 500

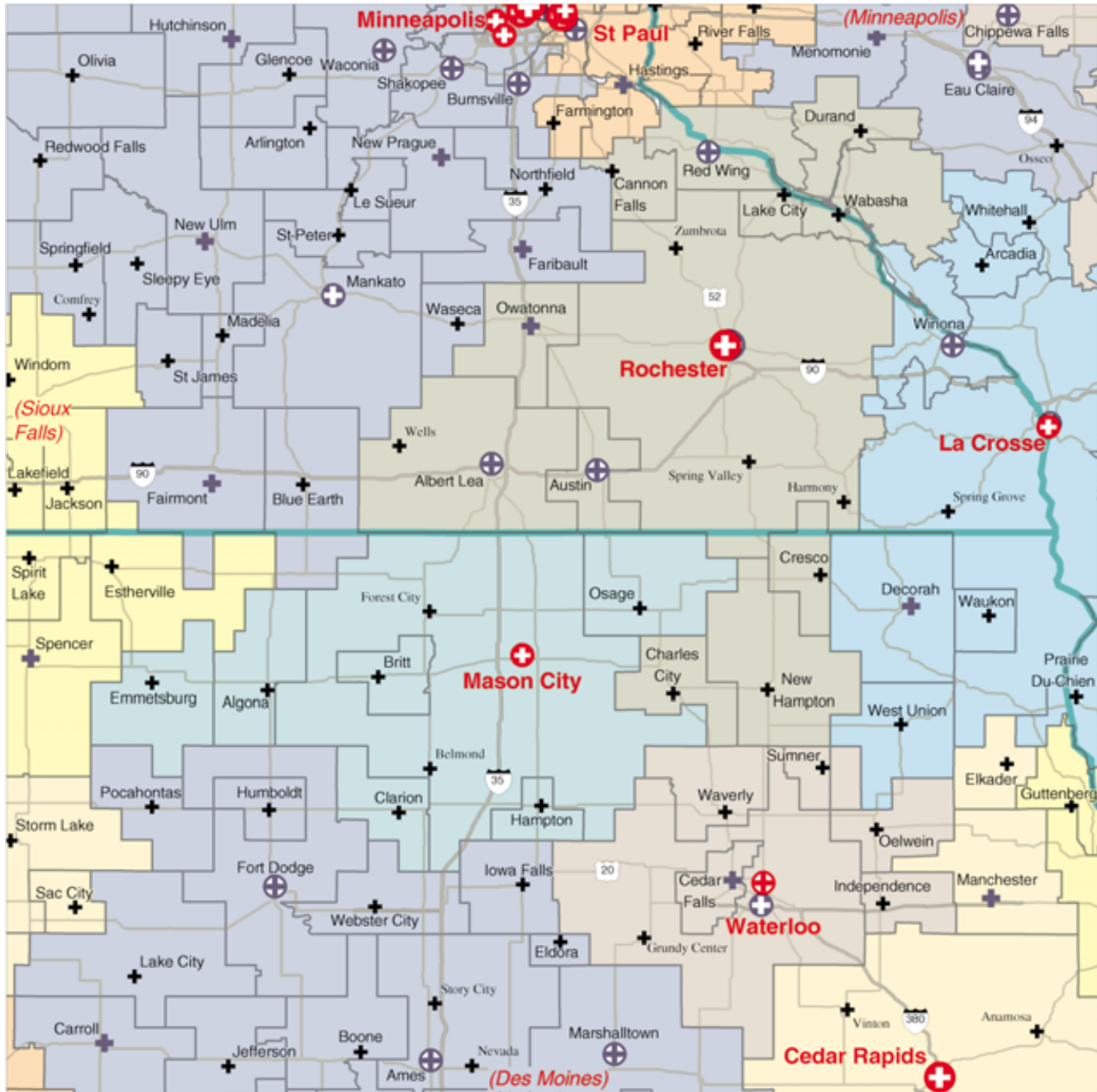
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- La Crosse** Hospital Referral Region Name
- Winona Hospital Service Area Name
- Sparta Other Town with Hospital



Hospital Service Areas Assigned to the Mason City and Waterloo, IA and Rochester, MN Hospital Referral Regions



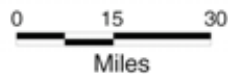
Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

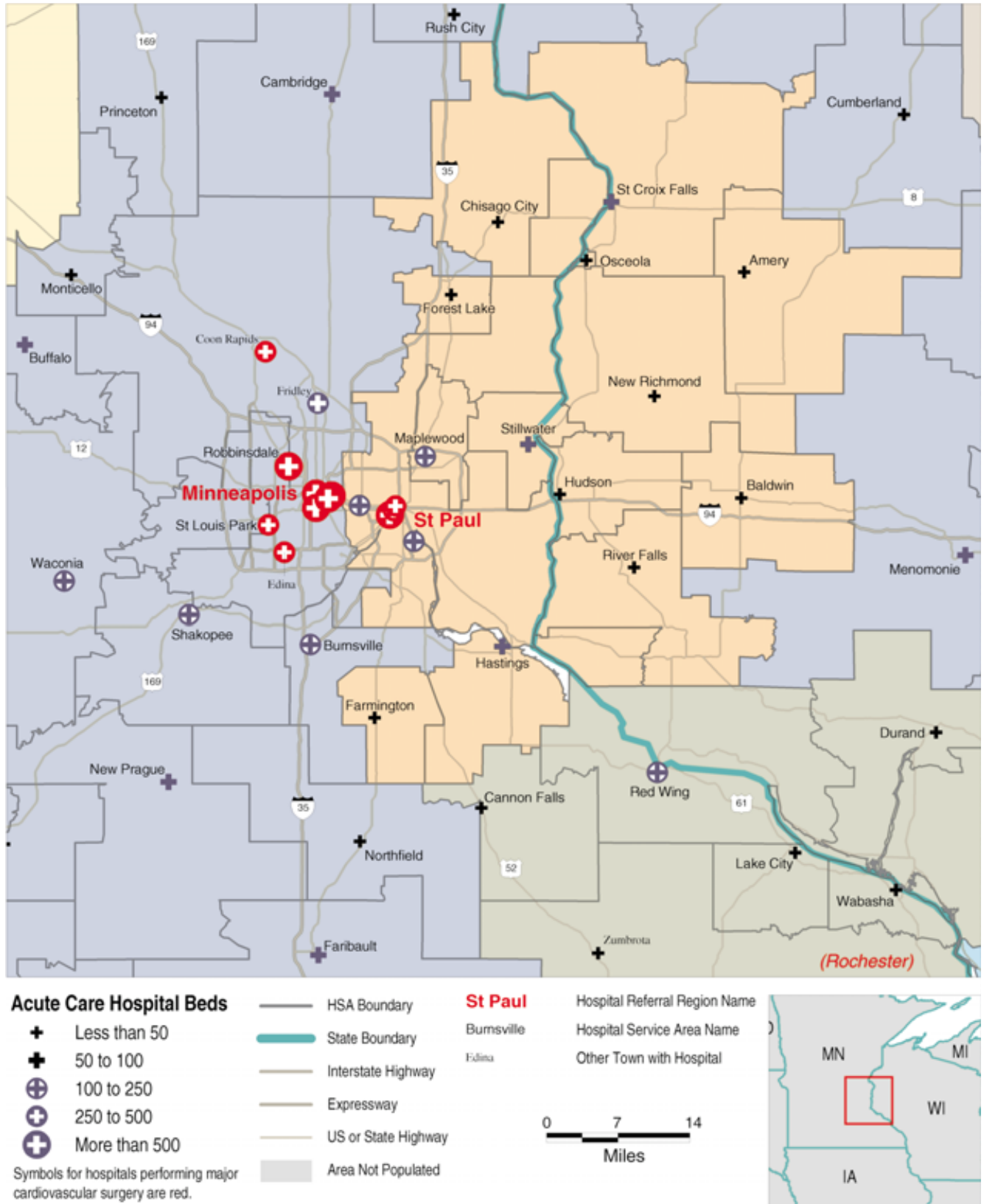
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

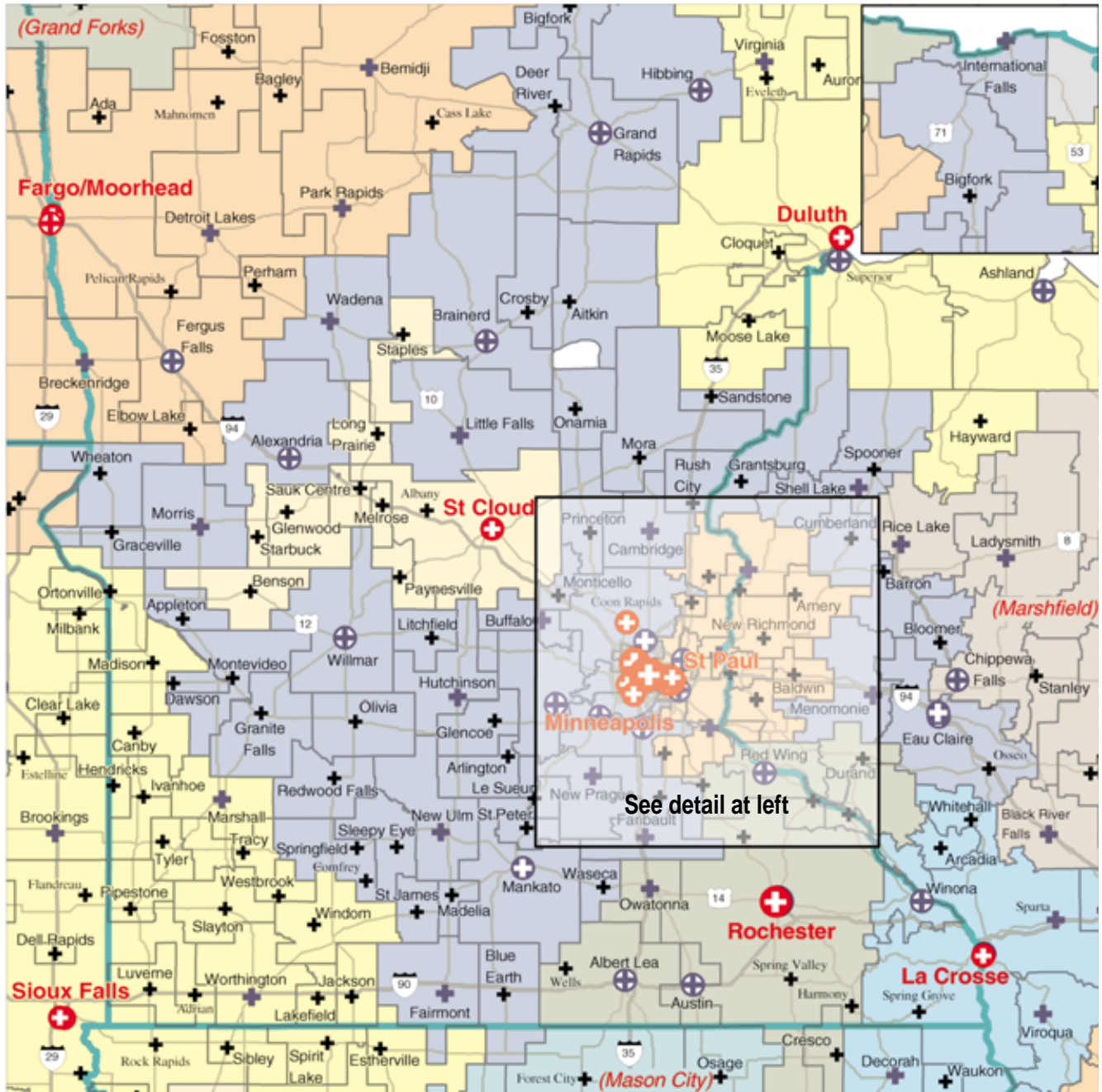
- Rochester** Hospital Referral Region Name
- Austin Hospital Service Area Name
- Harmony Other Town with Hospital



Detail of Hospital Service Areas Assigned to the Minneapolis and St. Paul, MN Hospital Referral Regions



Hospital Service Areas Assigned to the Minneapolis, St. Paul, and St. Cloud, MN Hospital Referral Regions



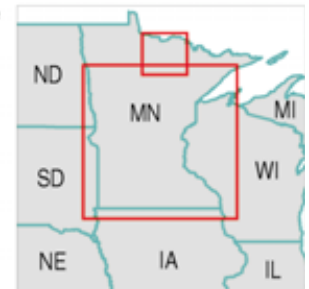
Acute Care Hospital Beds

- + Less than 50
- ++ 50 to 100
- +++ 100 to 250
- ++++ 250 to 500
- +++++ More than 500

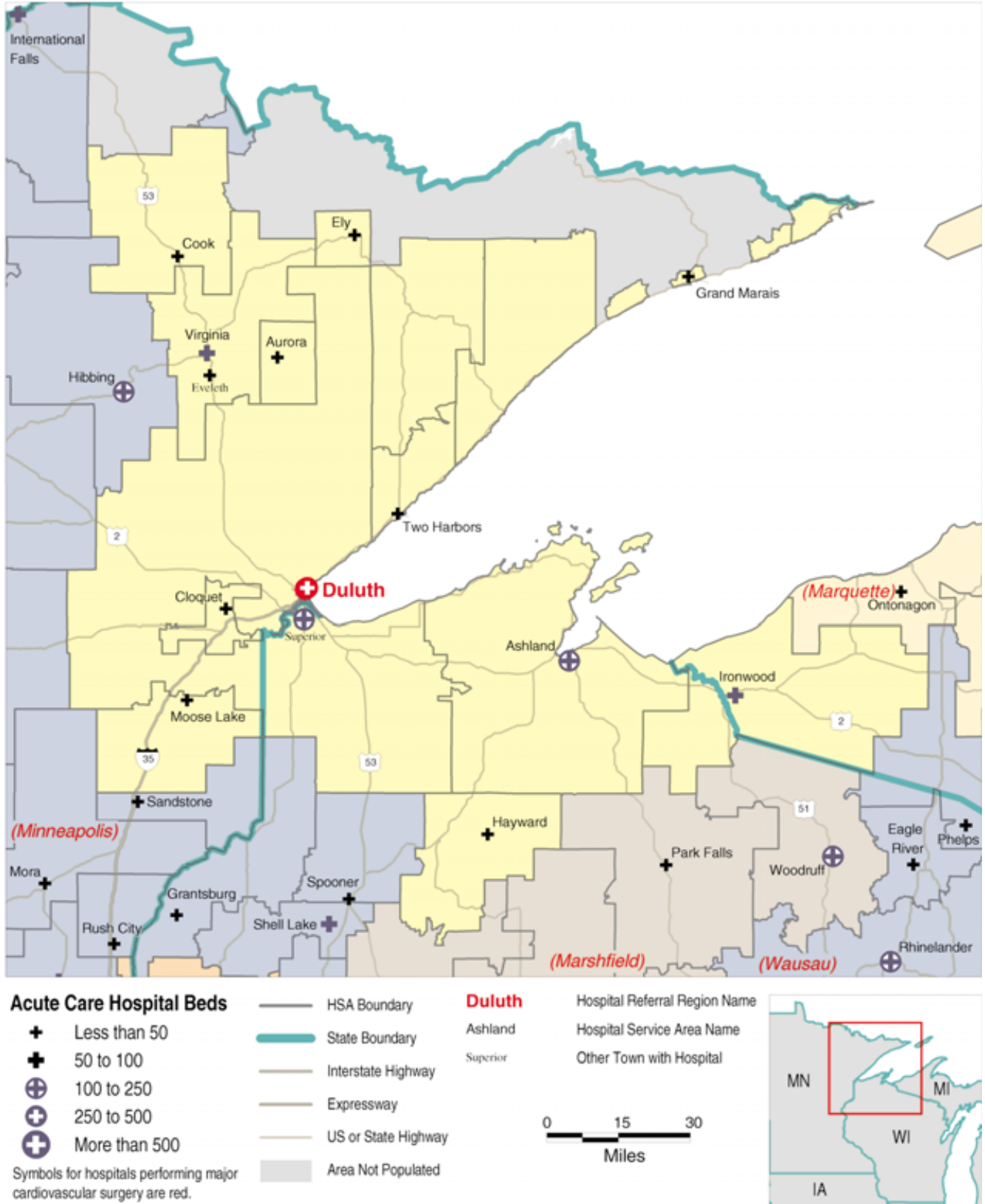
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

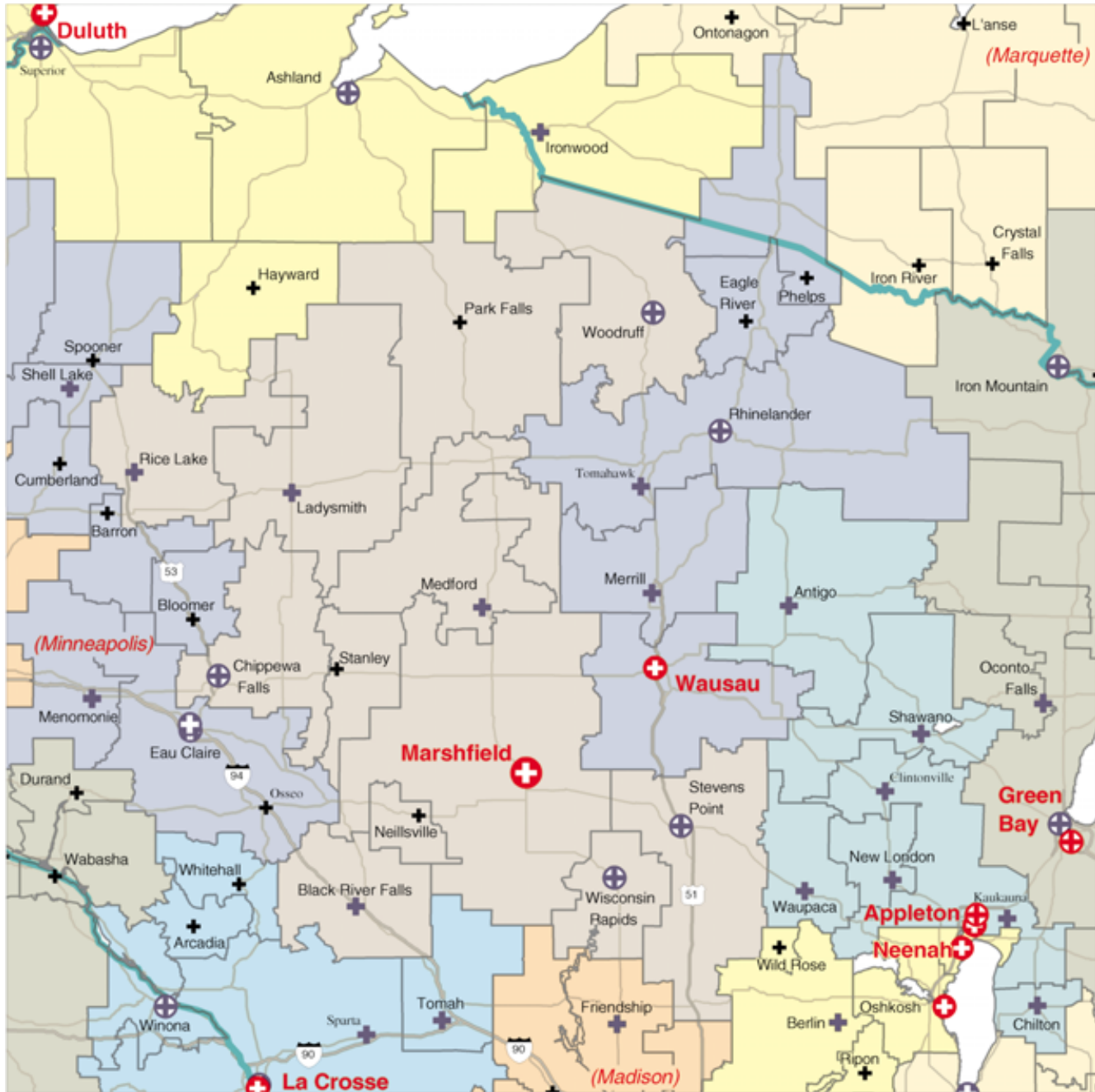
- Rochester** Hospital Referral Region Name
- Austin Hospital Service Area Name
- Harmony Other Town with Hospital



Hospital Service Areas Assigned to the Duluth, MN Hospital Referral Region



Hospital Service Areas Assigned to the Marshfield and Wausau, WI Hospital Referral Regions



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

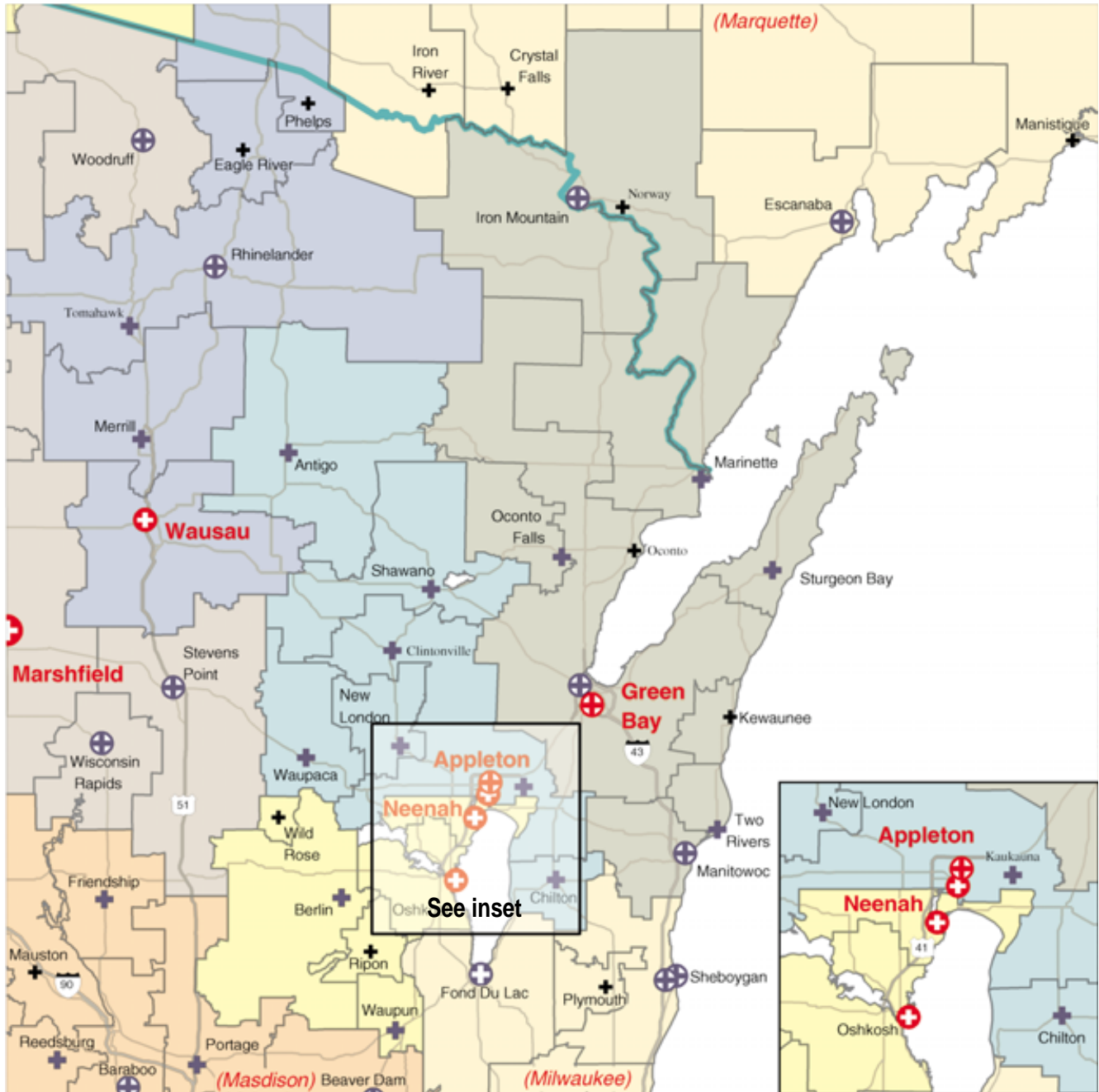
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Wausau** Hospital Referral Region Name
- Rhinelanders Hospital Service Area Name
- Tomahawk Other Town with Hospital



Hospital Service Areas Assigned to the Appleton, Green Bay and Neenah, WI Hospital Referral Regions



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

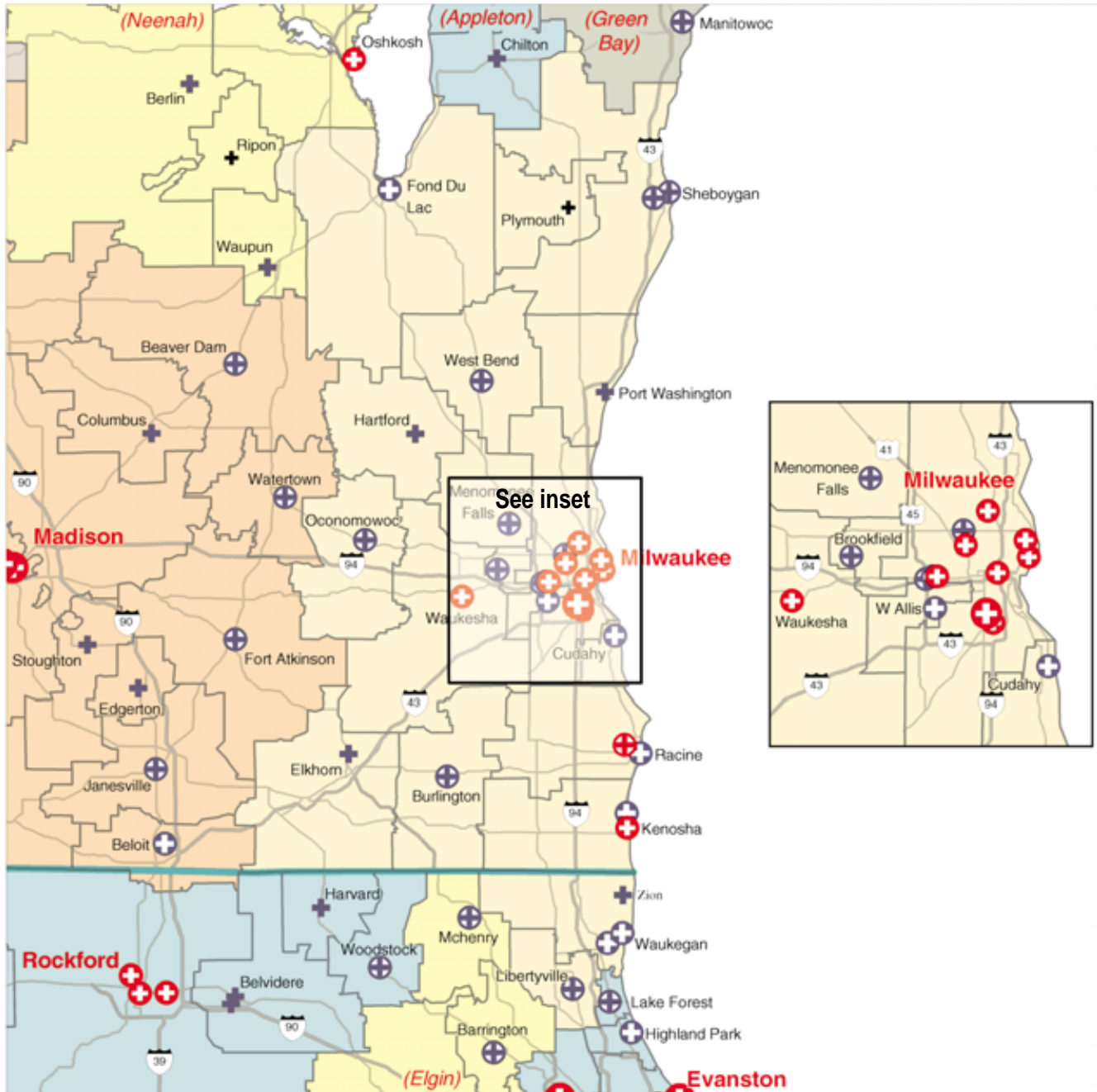
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Appleton** Hospital Referral Region Name
- Waupaca Hospital Service Area Name
- Clintonville Other Town with Hospital



Hospital Service Areas Assigned to the Milwaukee, WI Hospital Referral Region



Acute Care Hospital Beds

- + Less than 50
- + 50 to 100
- + 100 to 250
- + 250 to 500
- + More than 500

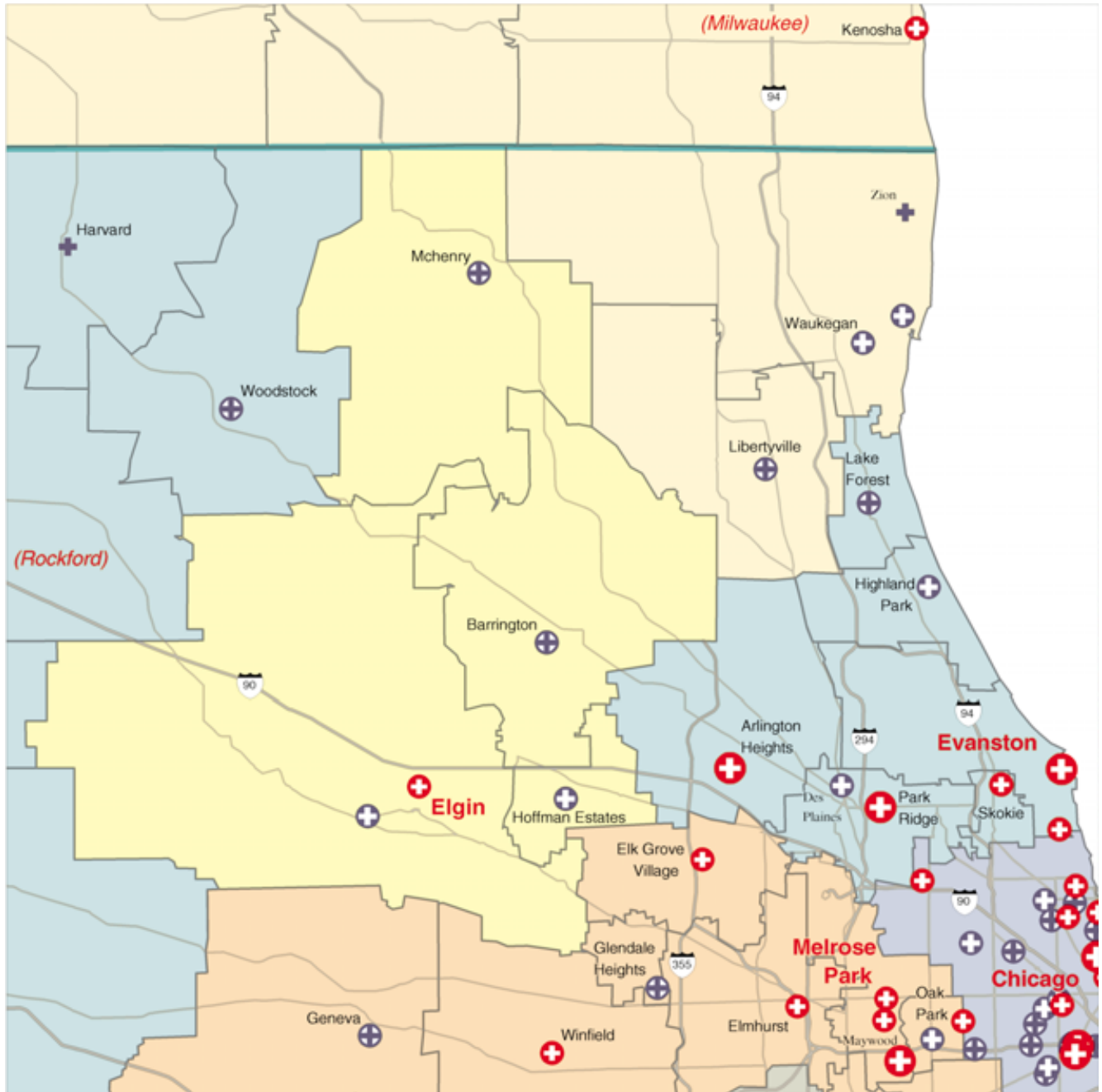
Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Milwaukee** Hospital Referral Region Name
- Kenosha Hospital Service Area Name
- Zion Other Town with Hospital



Hospital Service Areas Assigned to the Elgin and Evanston, IL Hospital Referral Regions



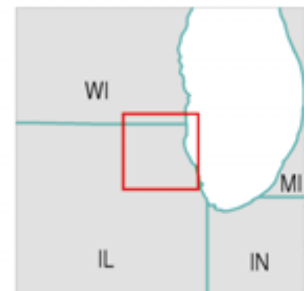
Acute Care Hospital Beds

- + Less than 50
- ⊕ 50 to 100
- ⊕⊕ 100 to 250
- ⊕⊕⊕ 250 to 500
- ⊕⊕⊕⊕ More than 500

Symbols for hospitals performing major cardiovascular surgery are red.

- HSA Boundary
- State Boundary
- Interstate Highway
- Expressway
- US or State Highway
- Area Not Populated

- Evanston** Hospital Referral Region Name
- Park Ridge Hospital Service Area Name
- Des Plaines Other Town with Hospital



PART TWO

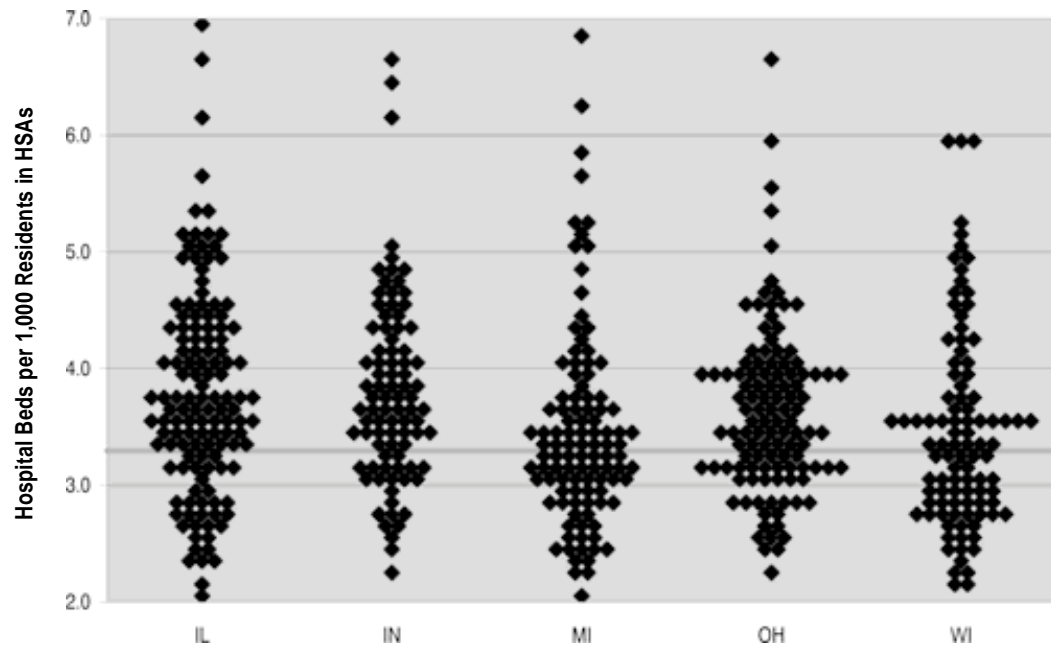
Acute Care Hospital Resources and Expenditures in the Great Lakes States

This section provides measures of the allocation of hospital resources to the populations living in hospital service areas in the Great Lakes States. Data from the American Hospital Association and the Medicare program were used to estimate the numbers of staffed hospital beds, full time equivalent hospital employees, registered nurses employed in acute care hospitals, and hospital expenditures allocated to care for the population of each region. The population count is from the 1990 United States census.

The estimates for resource allocations presented in the Atlas have been adjusted for differences in age and sex, and in the case of expenditures, for regional differences in prices. The allocation method adjusts for patient migration to hospitals located outside of the hospital service area where the patient resides. Part Nine of the national volume of the Dartmouth Atlas of Health Care explains how these adjustments were made.

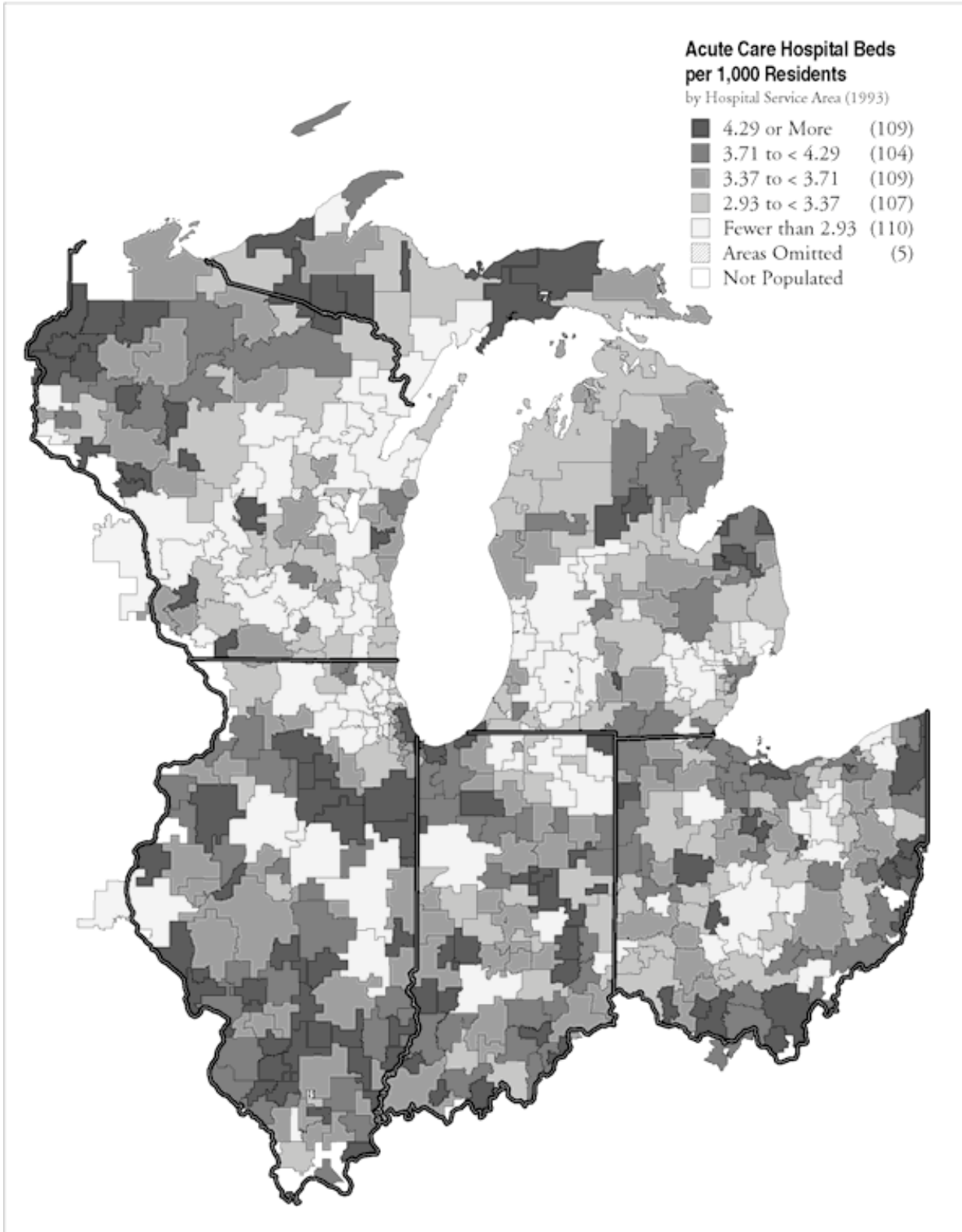
Acute Care Hospital Beds

The number of acute care hospital beds per thousand residents of the Great Lakes States ranged from about 2.0 to more than 6.9. Among the region's larger hospital service areas, the numbers of hospital beds allocated were higher than the national average of 3.3 per thousand residents in Chicago (4.6); Toledo, Ohio (4.1); and Detroit (4.1). Milwaukee (3.0); Columbus, Ohio (2.9); Fort Wayne, Indiana (2.7); and Ann Arbor, Michigan (2.3) were below the national average.



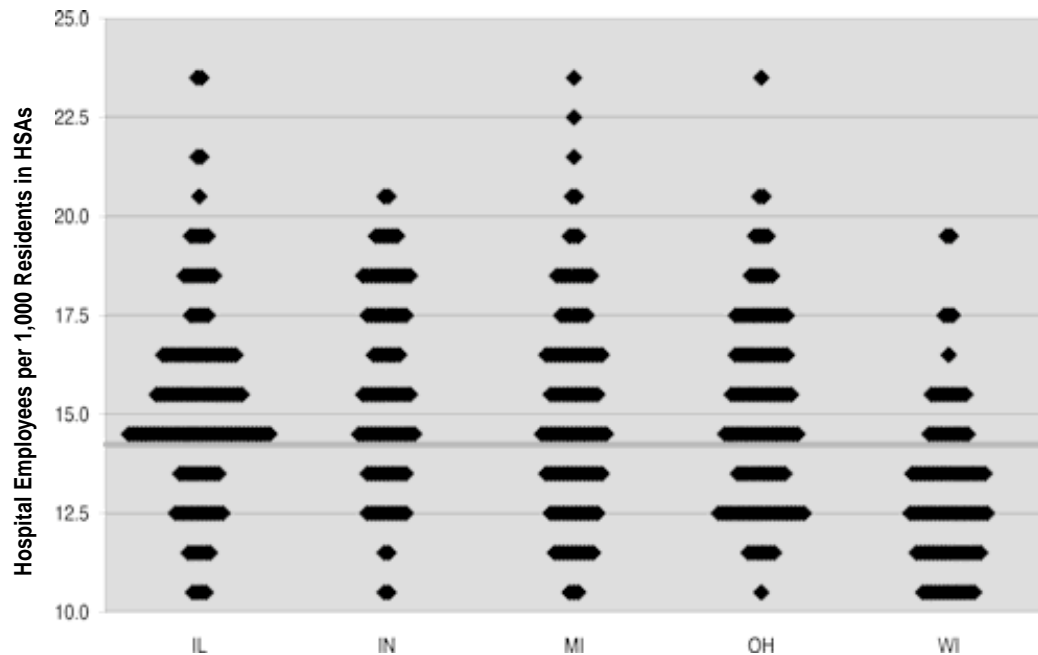
The Great Lakes States. The gray horizontal line represents the United States average.

Figure 2.1. Acute Care Hospital Beds Allocated to Hospital Service Areas in the Great Lakes States (1993)
The number of acute care hospital beds per thousand residents, after adjusting for differences in the age and sex of the local population, varied by a factor of more than 3.5. Each point represents one hospital service area.



Acute Care Hospital Employees

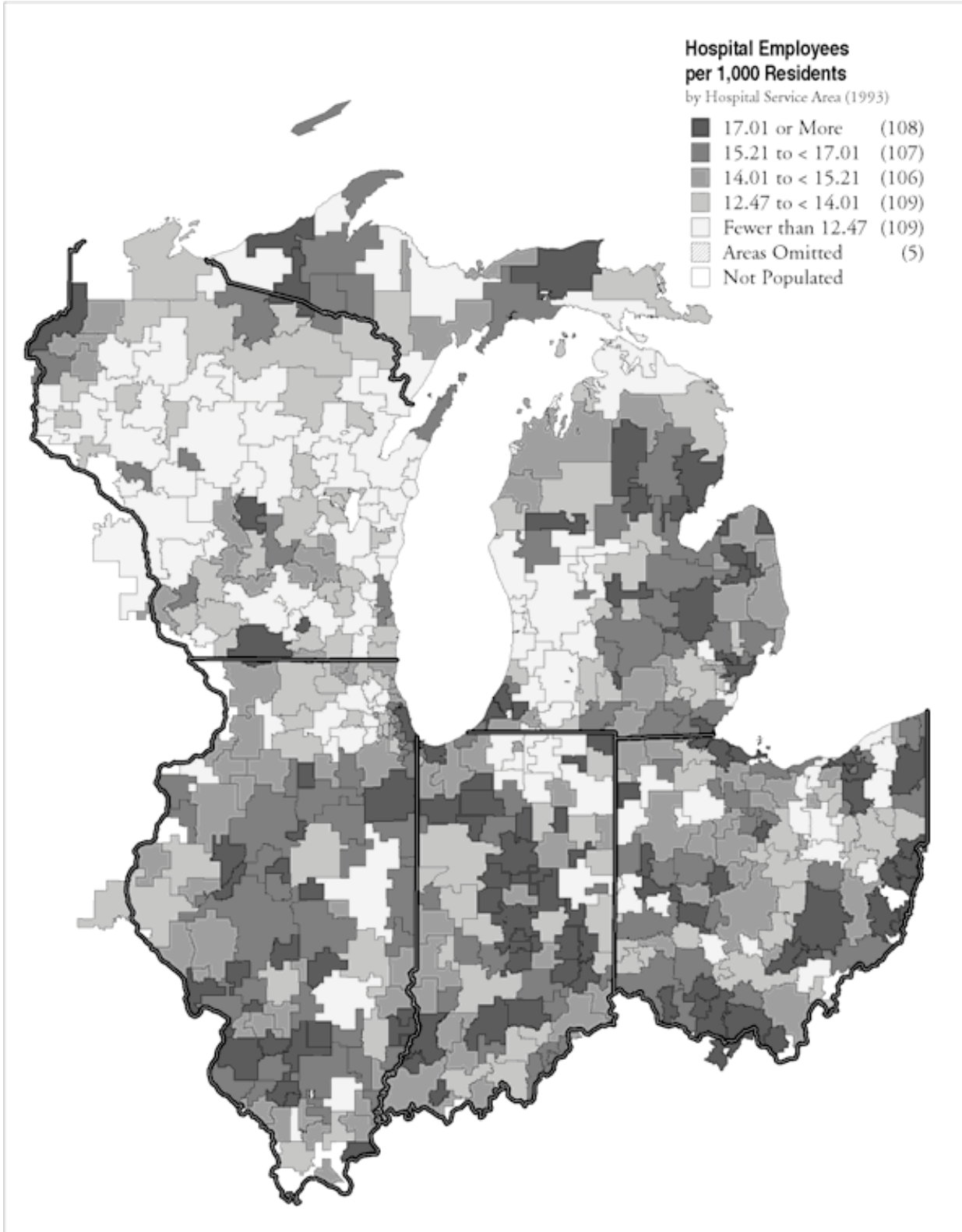
The number of full time equivalent hospital employees per thousand residents of the Great Lakes States ranged from fewer than 11.0 to more than 21.0. Among the region's larger hospital service areas, the numbers of hospital employees were substantially higher than the national average of 14.2 in Chicago (21.0); Detroit (21.0); Toledo, Ohio (20.8); Indianapolis (18.3); and Cleveland (18.1). Ann Arbor, Michigan (13.0); and Fort Wayne, Indiana (12.0) were below the national average.



The Great Lakes States. The gray horizontal line represents the United States average.

Figure 2.2. Hospital Employees Allocated to Hospital Service Areas in the Great Lakes States (1993)

The number of full time equivalent hospital employees per thousand residents, after adjusting for differences in the age and sex of the local population, varied by a factor of more than 2.4. Each point represents one hospital service area.



Registered Nurses Employed in Acute Care Hospitals

The acute care hospital-employed registered nurse workforce per thousand residents of the Great Lakes States ranged from fewer than 2.2 to more than 5.0. Among the region's larger hospital service areas, the numbers of registered nurses per thousand residents were substantially higher than the national average of 3.5 in Toledo, Ohio (5.6); Chicago (5.0); Akron, Ohio (4.8); Detroit (4.8); and Cleveland (4.5). Indianapolis (4.4); Dayton, Ohio (4.3); Milwaukee (4.2); and Cincinnati (4.1) were also above the national average; Fort Wayne, Indiana (2.9); and Ann Arbor, Michigan (2.9) were below it.

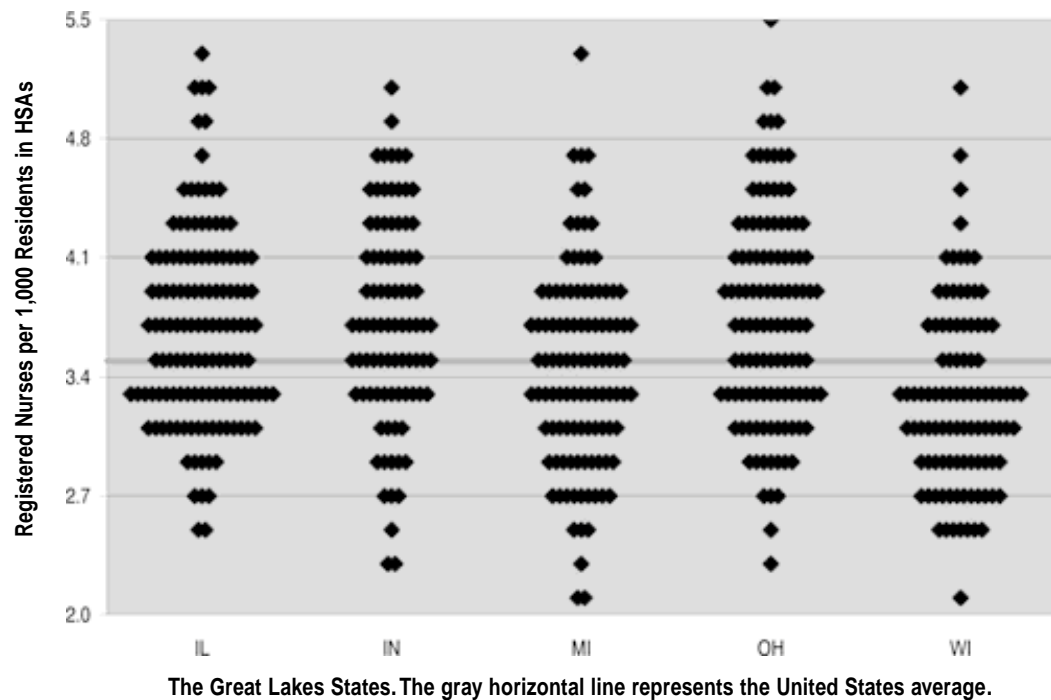
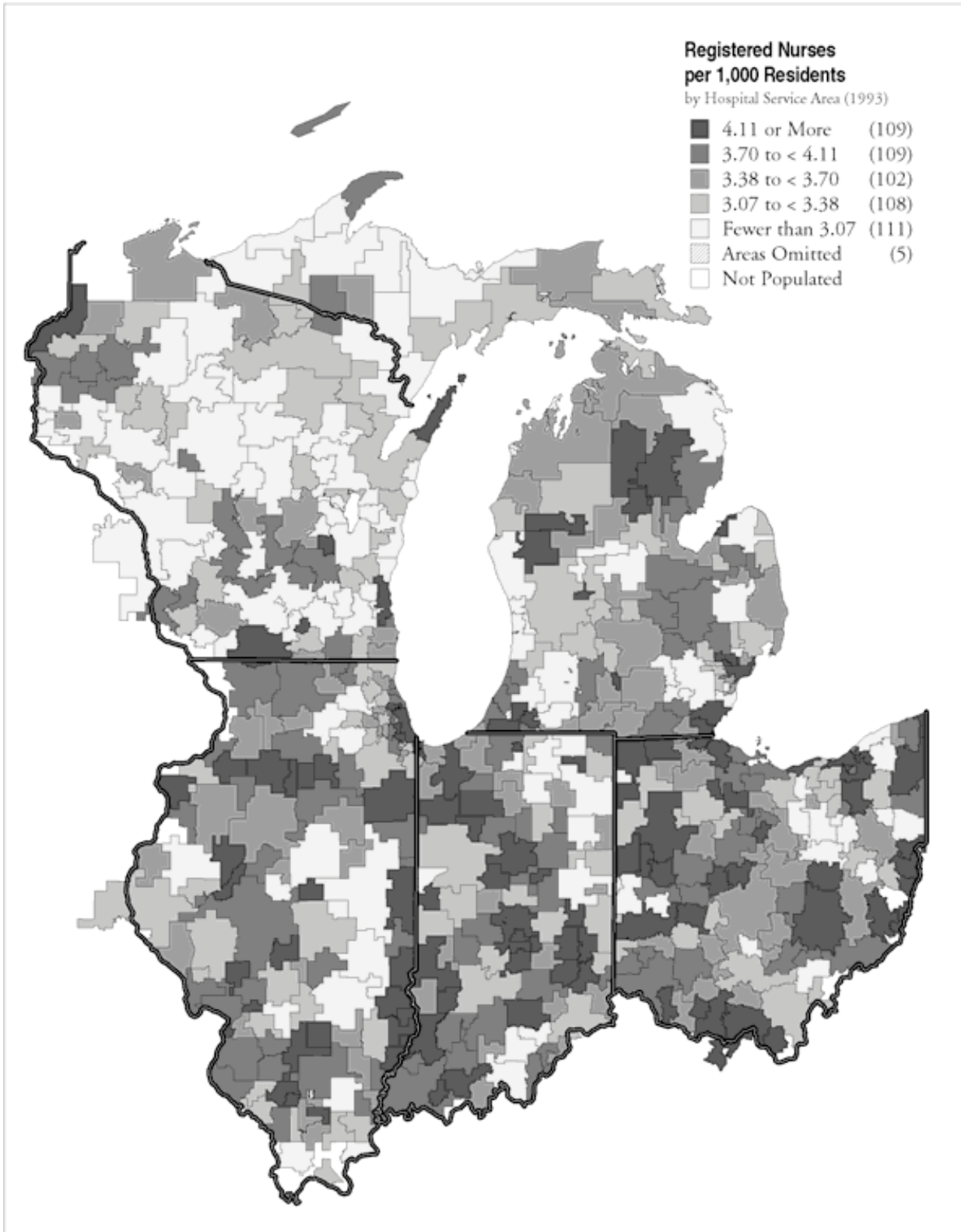


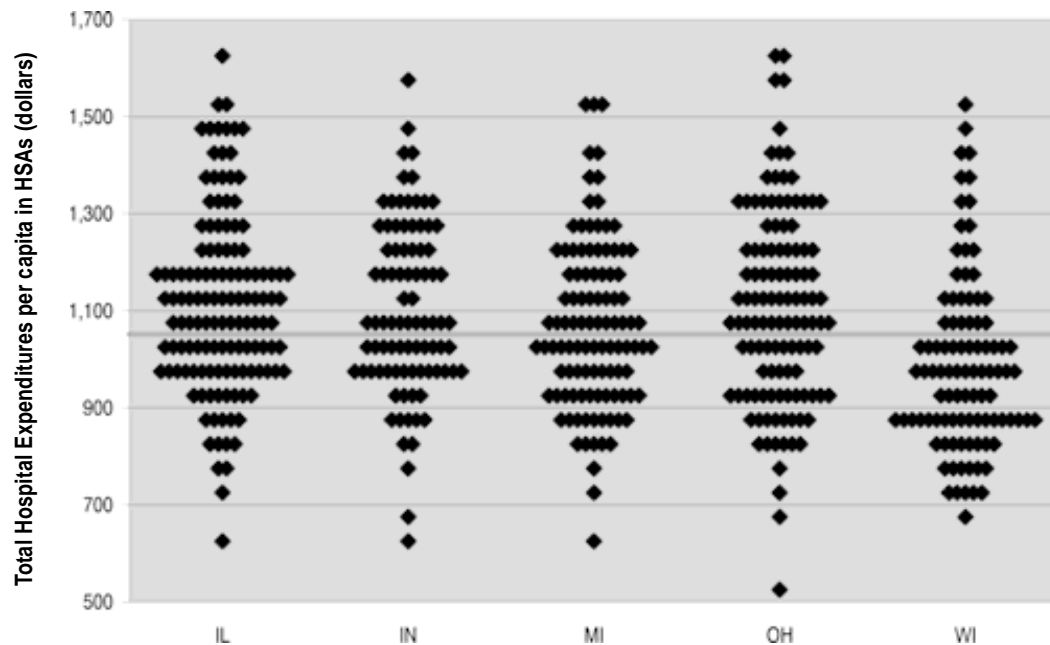
Figure 2.3. Hospital-Based Registered Nurses Allocated to Hospital Service Areas in the Great Lakes States (1993)

The acute care hospital-employed registered nurse workforce per thousand residents, after adjusting for differences in the age and sex of the local population, varied by a factor of more than 2.6. Each point represents one hospital service area.



Total Acute Care Hospital Expenditures

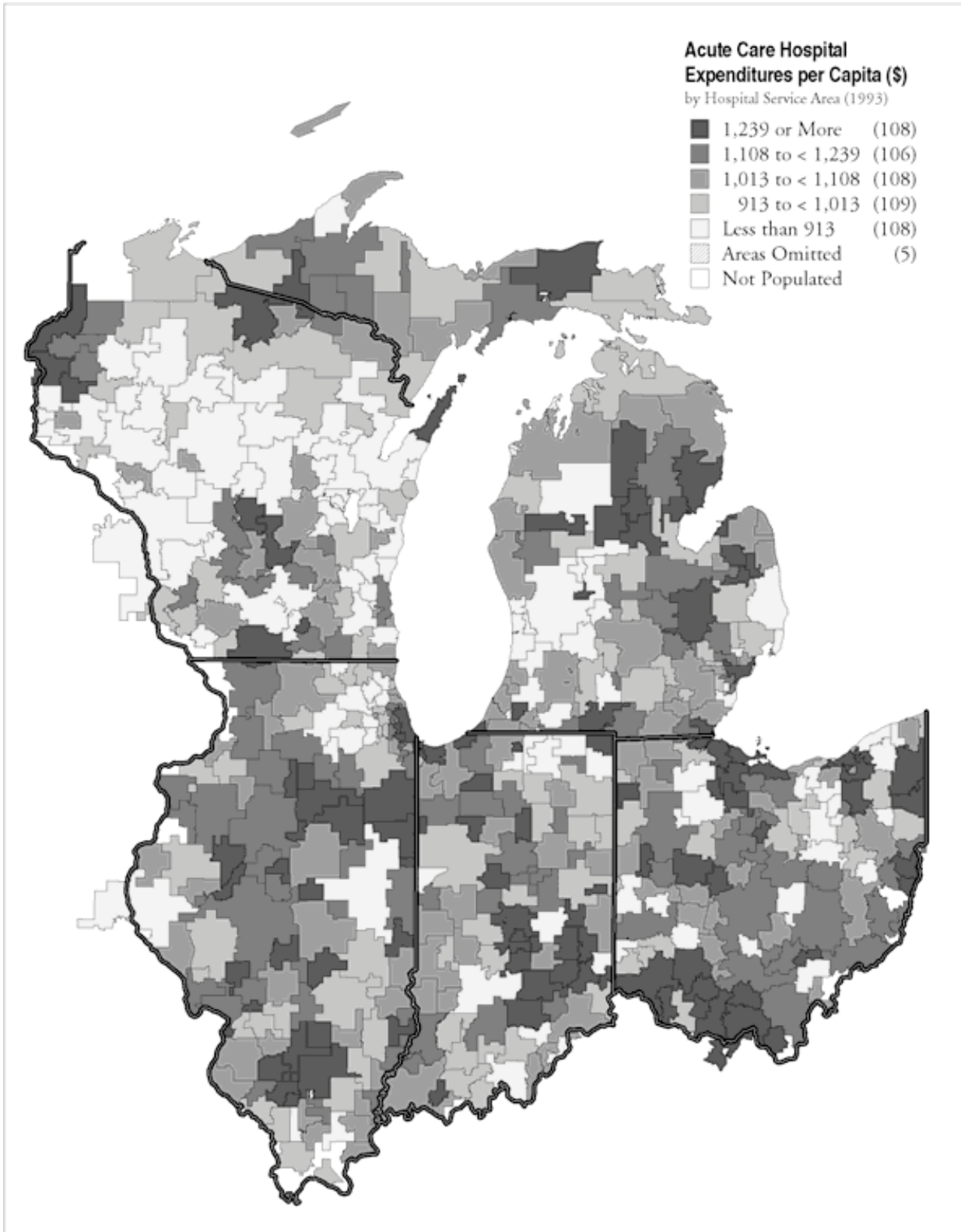
Price adjusted per capita expenditures for inpatient and outpatient care delivered by acute care hospitals in the Great Lakes States ranged from less than \$650 to more than \$1,600. Among the region's larger hospital service areas, total per capita expenditures were substantially higher than the national average of \$1,052 in Toledo, Ohio (\$1,621); Chicago (\$1,475); Detroit (\$1,446); Akron, Ohio (\$1,417); Indianapolis (\$1,367); Cleveland (\$1,307); and Cincinnati, (\$1,304). Ann Arbor, Michigan (\$1,028); and Fort Wayne, Indiana (\$919) were below the national average.



The Great Lakes States. The gray horizontal line represents the United States average.

Figure 2.4. Price Adjusted Acute Care Hospital Expenditures Allocated to Hospital Service Areas in the Great Lakes States (1993)

Price adjusted per capita expenditures for inpatient and outpatient care delivered by acute care hospitals varied by a factor of more than 2.5. Each point represents one hospital service area.



Benchmarking: Acute Care Hospital Beds

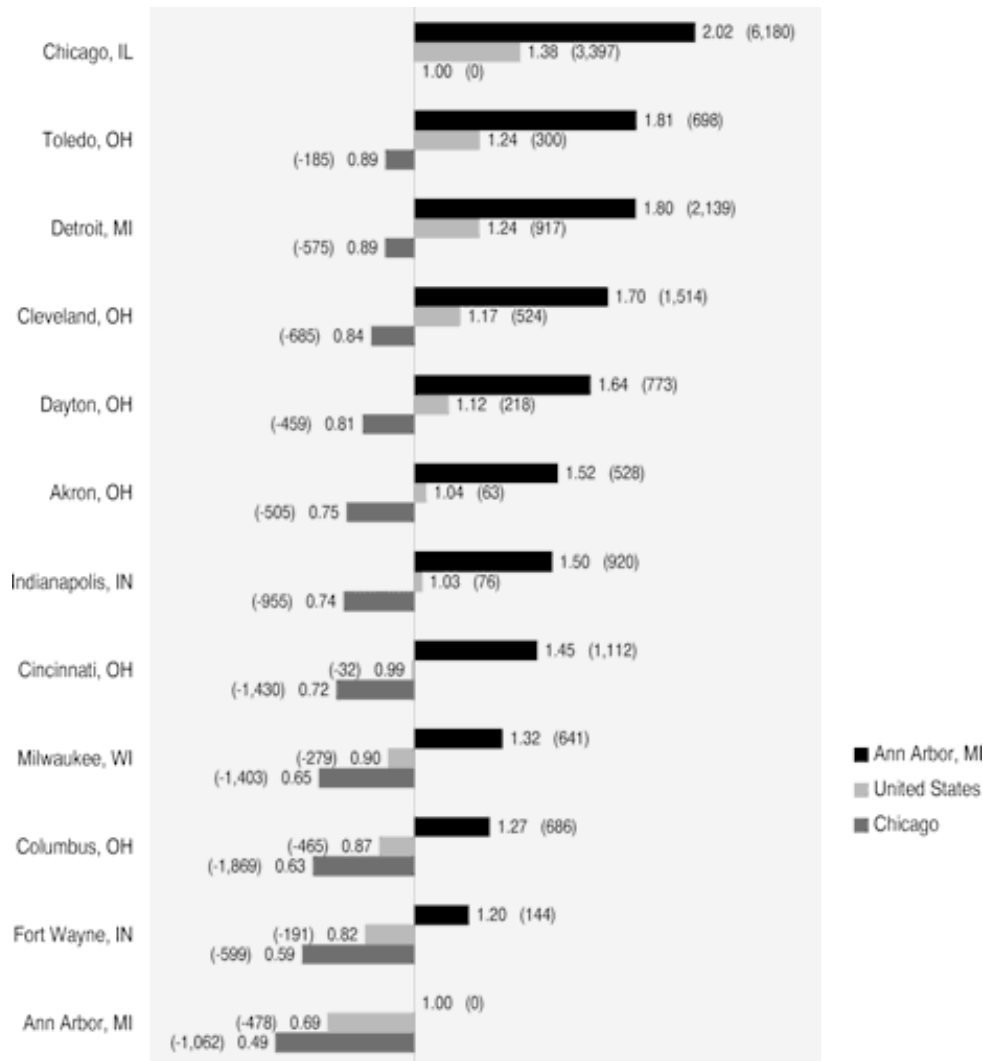


Figure 2.5. Acute Care Hospital Beds Allocated to Selected Hospital Service Areas in the Great Lakes States Compared to the Highest and Lowest Ranked Selected Areas (1993)

The figure gives the ratio of acute care hospital beds in selected hospital service areas to the lowest and the highest ranked areas. It also compares each selected area to the U.S. average. The number of acute care hospital beds above (+) or below (-) the number predicted by the experience in the benchmark area for 1993 is in parentheses. For example, the number of beds per thousand residents of Chicago was 2.02 times higher than the number per thousand residents of Ann Arbor, Michigan. If the level of bed supply of the Ann Arbor benchmark in 1993 had prevailed, 6,180 fewer beds would have been needed for residents of Chicago.

Benchmarking: Acute Care Hospital Beds

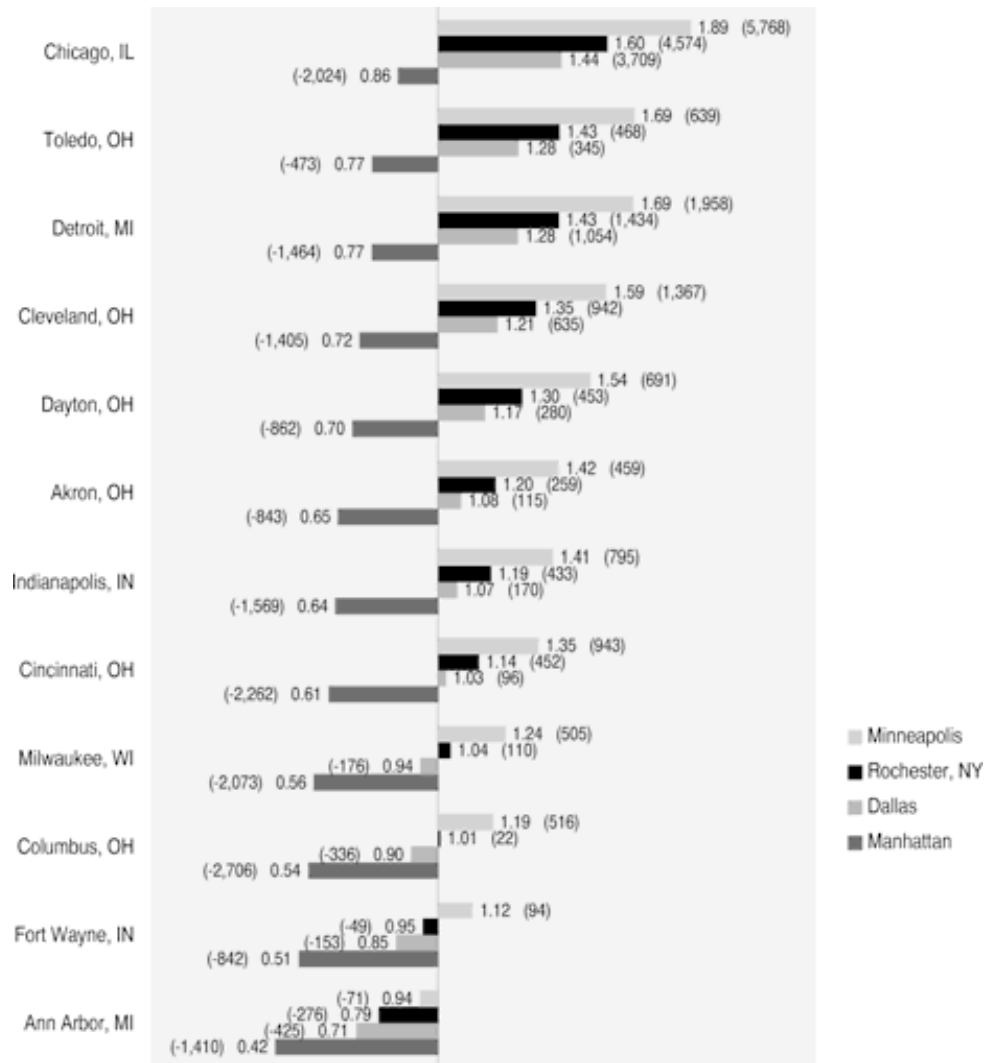


Figure 2.6. Acute Care Hospital Beds Allocated to Selected Hospital Service Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. (1993)

The figure gives the ratio of acute care hospital beds in selected hospital service areas in the Great Lakes States to other areas. The number of beds above (+) or below (-) the number of beds predicted by the experience in the benchmark area is in parentheses. For example, the number of beds per thousand residents of Chicago was 1.89 times higher than the number per thousand residents of Minneapolis. If the level of bed supply of the Minneapolis benchmark in 1993 had prevailed, 5,768 fewer beds would have been needed for residents of Chicago. If the Manhattan benchmark had prevailed, 2,024 additional beds would have been needed for residents of Chicago.

Benchmarking: Hospital Employees

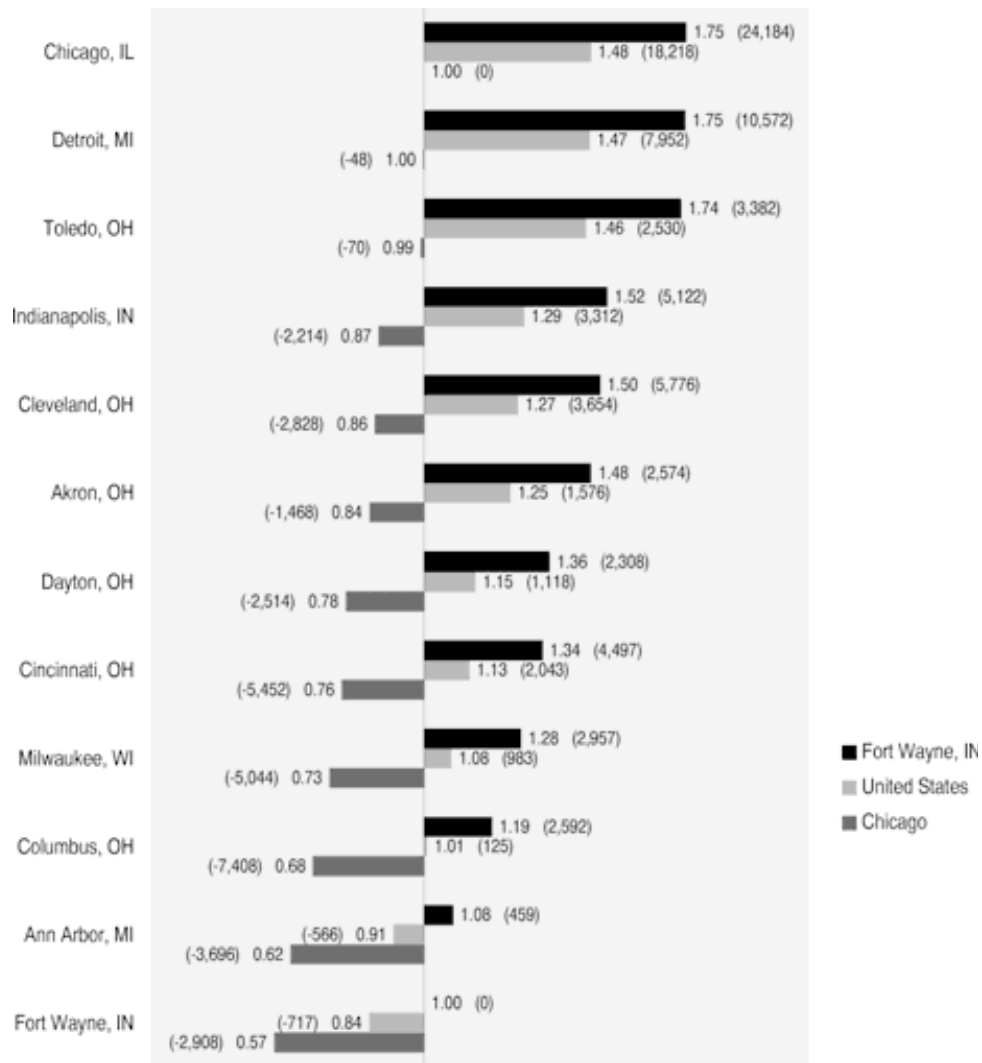


Figure 2.7. Hospital Employees Allocated to Selected Hospital Service Areas in the Great Lakes States Compared to the Highest and Lowest Ranked Selected Areas (1993)

The figure gives the ratio of full time equivalent hospital employees in selected hospital service areas to the lowest and the highest ranked areas. It also compares each selected area to the U.S. average. The number of employees above (+) or below (-) the number predicted by the experience in the benchmark area for 1993 is in parentheses. For example, the number of employees per thousand allocated to the residents of Chicago was 1.75 times higher than the number allocated to the residents of Fort Wayne, Indiana. If the level of employment of the Fort Wayne benchmark in 1993 had prevailed, 24,184 fewer employees would have been needed by residents of Chicago.

Benchmarking: Hospital Employees

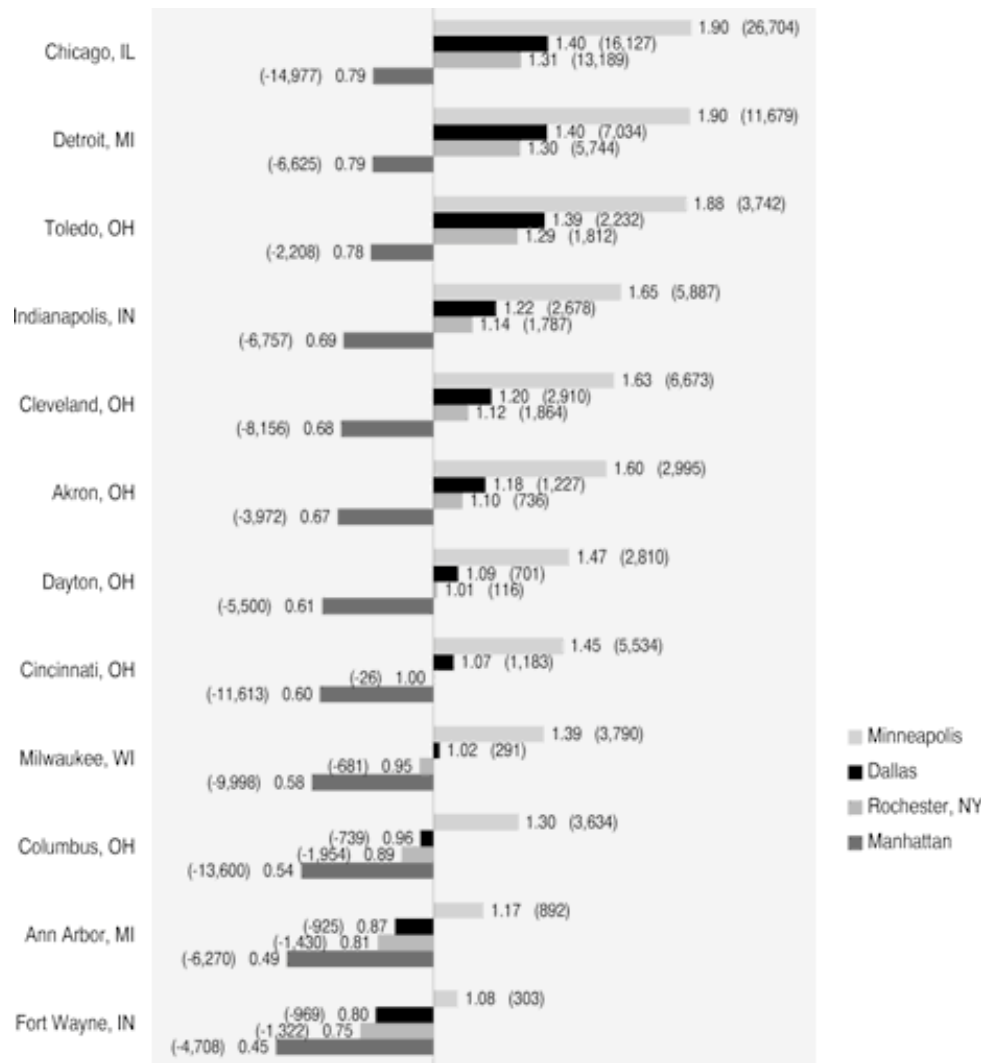


Figure 2.8. Employees Allocated to Selected Hospital Service Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. (1993)

The figure gives the ratio of full time equivalent hospital employees in selected hospital service areas in the Great Lakes States to other areas. The number of employees above (+) or below (-) the number of employees predicted by the experience in the benchmark area is in parentheses. For example, the number of employees per thousand residents of Chicago was 1.90 times higher than the number of employees allocated to the residents of Minneapolis. If the level of employment of the Minneapolis benchmark in 1993 had prevailed, 26,704 fewer employees would have been needed by residents of Chicago. If the Manhattan benchmark had prevailed, 14,977 more employees would have been needed by residents of Chicago.

Benchmarking: Hospital-Based Registered Nurses

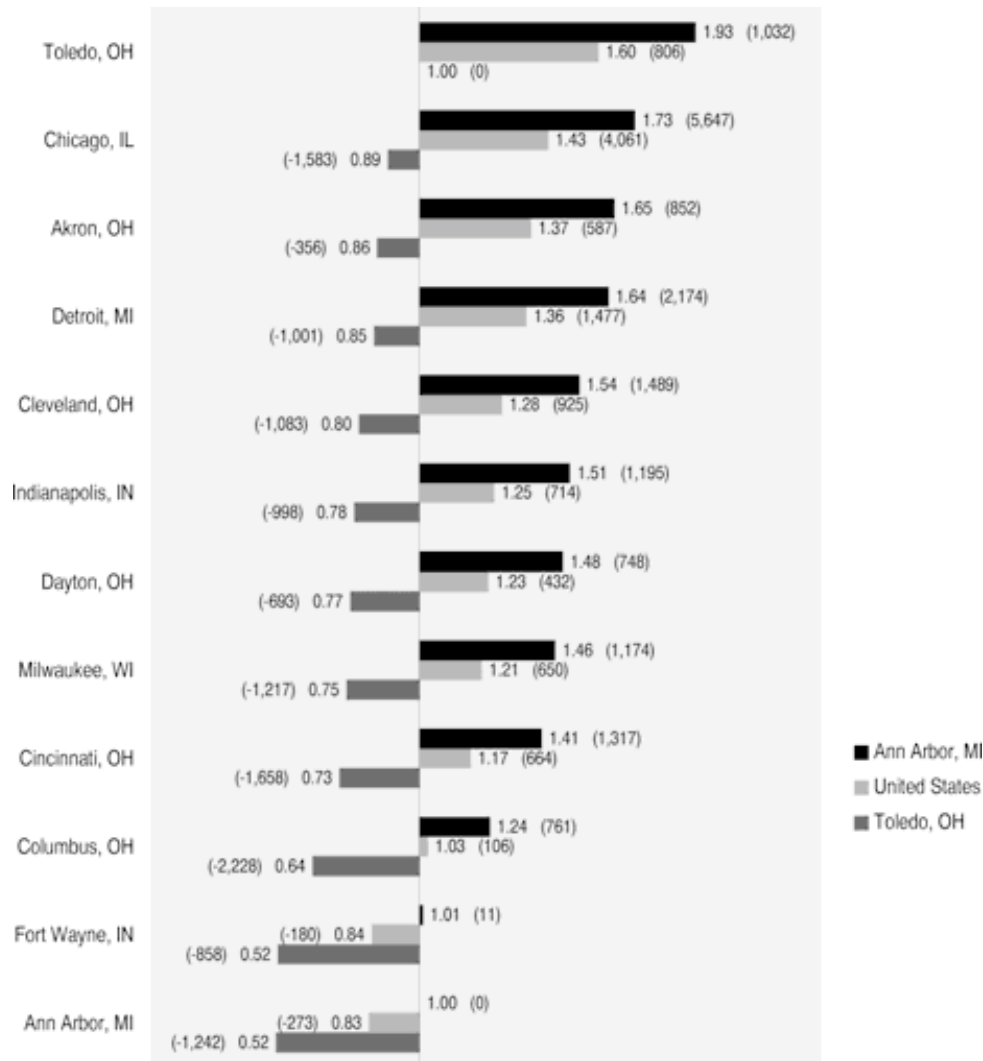


Figure 2.9. Hospital-Based Registered Nurses Allocated to Selected Hospital Service Areas in the Great Lakes States Compared to Highest and Lowest Ranked Selected Areas (1993)

The figure gives the ratio of hospital-employed registered nurses in selected hospital service areas to the lowest and the highest ranked areas. It also compares each selected area to the U.S. average. The number of registered nurses above (+) or below (-) the number predicted by the experience in the benchmark area for 1993 is in parentheses. For example, the number of registered nurses per thousand allocated to the residents of Toledo, Ohio was 1.93 times higher than the number allocated to residents of Ann Arbor, Michigan. If the level of nursing employment of the Ann Arbor benchmark in 1993 had prevailed, 1,032 fewer registered nurses would have been needed by residents of Toledo.

Benchmarking: Hospital-Based Registered Nurses

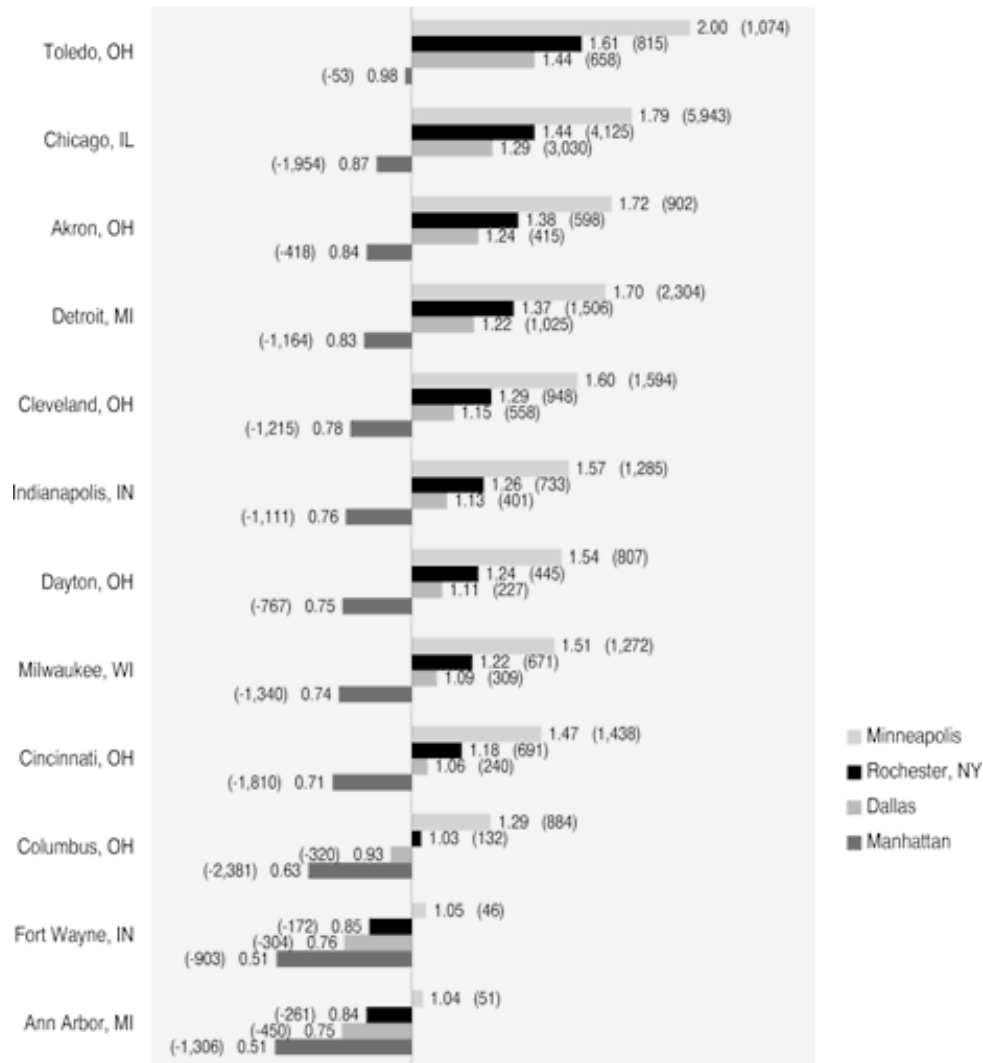


Figure 2.10. Hospital-Based Registered Nurses Allocated to Selected Hospital Service Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. (1993)

The figure gives the ratio of hospital-employed registered nurses in selected hospital service areas in the Great Lakes States to other areas. The number of registered nurses above (+) or below (-) the number of registered nurses predicted by the experience in the benchmark area is in parentheses. For example, the number of registered nurses per thousand allocated to the residents of Toledo, Ohio was 2.0 times higher than the number allocated to residents of Minneapolis. If the level of nursing employment of the Minneapolis benchmark in 1993 had prevailed, 1,074 fewer registered nurses would have been needed for residents of Toledo. If the Manhattan benchmark had prevailed, 53 more registered nurses would have been needed for residents of Toledo.

Benchmarking: Total Hospital Expenditures

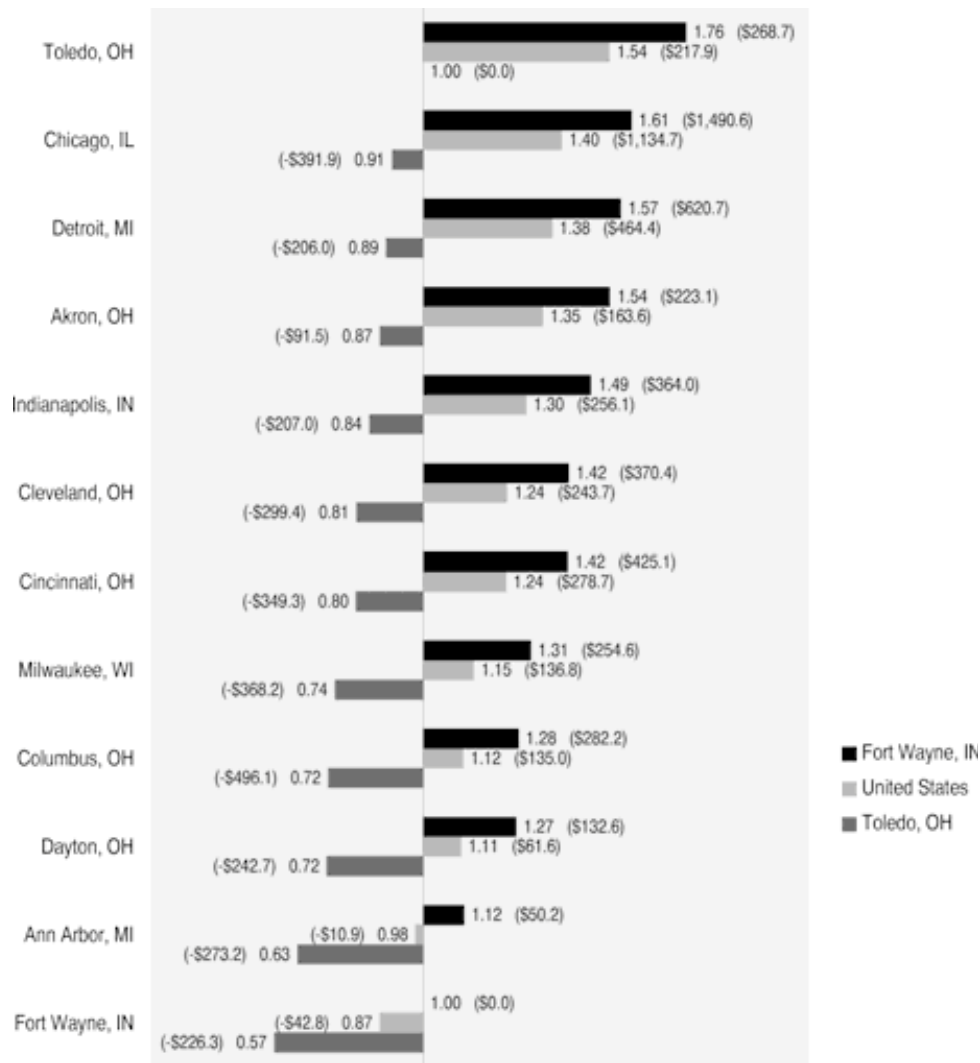


Figure 2.11. Price Adjusted Total Hospital Expenditures per capita in Selected Hospital Service Areas in the Great Lakes States Compared to Highest and Lowest Ranked Selected Areas (1993)

The figure gives the ratio of price adjusted per capita expenditures for inpatient and outpatient care in selected hospital service areas to the lowest and the highest ranked areas. It also compares each selected area to the U.S. average. Per capita expenditures above (+) or below (-) the amount predicted by the experience in the benchmark area for 1993 are in parentheses. For example, expenditures in Toledo, Ohio were 1.76 times higher than expenditures in Fort Wayne, Indiana. If the level of expenditure of the Fort Wayne benchmark in 1993 had prevailed, \$268.7 million less would have been spent for residents of Toledo.

Benchmarking: Total Hospital Expenditures

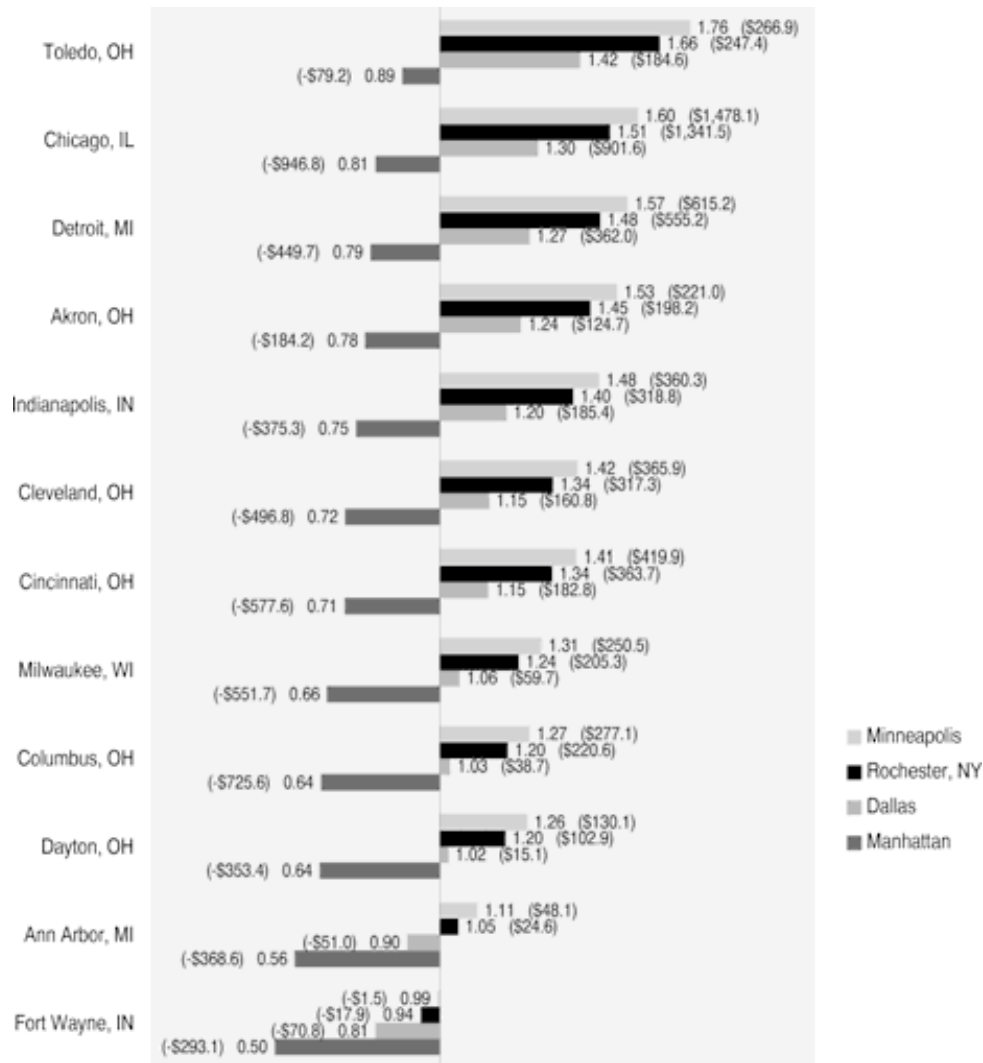


Figure 2.12. Price Adjusted Total Hospital Expenditures per capita in Selected Hospital Services Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. (1993)

The figure gives the ratio of price adjusted per capita expenditures for inpatient and outpatient care in selected hospital service areas in the Great Lakes States to other areas. Per capita expenditures above (+) or below (-) the amount predicted by the experience in the benchmark area is in parentheses. For example, expenditures in Toledo, Ohio were 1.76 times higher than expenditures in Minneapolis. If the level of expenditure of the Minneapolis benchmark in 1993 had prevailed, \$266.9 million less would have been spent for residents of Toledo. If the Manhattan benchmark had prevailed, \$79.2 million more would have been spent for residents of Toledo.

TABLE 2 Health care services utilization is expressed in rates per thousand residents. Rates are adjusted for differences in age, sex, and race composition of areas' populations. The rates represent the health care utilization of persons living in the specified area, regardless of where services were obtained. Reimbursements are expressed in rates per person, and are adjusted for regional differentials in prices. Estimates of allocated hospital employees and registered nurses are expressed as full-time equivalents (FTE).

Numbers appearing in parentheses are based on fewer than 3,500 person-years of experience.

See Part Nine of the national volume of the Dartmouth Atlas of Health Care for details.

TABLE 2

Acute Care Hospital Resources Allocated to Hospital Service Areas

Hospital Service Area	Resident Population	Acute Care Beds per 1,000	Hospital Employees per 1,000	Hospital-based Registered Nurses per 1,000	Price-Adjusted Expenditures per capita
Illinois					
Aledo	11,174	3.7	16.0	4.5	1,160
Alton	117,143	3.8	15.9	3.8	1,129
Anna	18,825	3.1	13.3	3.0	918
Arlington Heights	318,558	2.3	11.3	3.3	804
Aurora	165,056	2.6	9.6	2.5	707
Barrington	97,777	2.4	10.9	3.1	820
Belleville	272,839	4.0	17.1	3.9	1,095
Belvidere	35,662	3.2	12.8	3.4	976
Benton	11,419	3.3	15.5	3.5	1,122
Berwyn	197,083	3.7	17.0	4.3	1,253
Bloomington	134,005	2.1	13.2	2.8	1,089
Blue Island	56,815	3.4	14.5	3.2	1,113
Breese	21,669	5.3	17.2	4.1	1,103
Canton	27,043	3.7	19.7	4.6	1,445
Carbondale	39,799	2.7	11.1	3.2	912
Carlinville	10,878	4.1	19.2	4.3	1,357
Carmi	8,234	4.4	16.4	3.7	1,207
Carrollton	3,986	4.6	14.4	3.1	961
Carthage	15,055	4.6	14.7	3.4	1,020
Centralia	37,455	6.6	23.2	5.7	1,630
Chester	17,285	4.2	14.9	3.2	1,009
Chicago	2,680,712	4.6	21.0	5.0	1,475
Chicago Heights	133,405	3.6	15.6	3.4	1,150
Clinton	11,863	3.7	18.1	4.3	1,259
Danville	94,296	3.6	15.9	4.6	1,217
De Kalb	62,303	2.6	10.3	2.7	628
Decatur	145,026	4.0	16.5	3.2	1,100
Dixon	27,610	3.4	12.5	3.4	1,078
Downers Grove	84,711	2.7	12.7	3.6	983
Du Quoin	10,061	4.2	18.6	4.2	1,477
Effingham	53,837	3.4	12.2	2.9	1,007
Eldorado	13,693	4.0	14.9	3.1	1,021
Elgin	246,641	2.9	11.4	3.0	889
Elk Grove Village	122,151	2.8	12.4	3.4	917
Elmhurst	212,505	2.6	13.2	3.3	974
Eureka	7,478	2.6	18.5	3.9	1,466
Evanston	212,335	2.8	15.0	3.9	1,023
Fairfield	12,406	4.5	16.1	3.5	1,012
Flora	11,448	4.3	15.2	3.5	1,023
Freeport	61,763	3.2	14.7	4.0	1,142
Galesburg	68,895	4.3	14.2	3.4	1,164
Geneseo	17,128	3.7	14.8	4.5	933
Geneva	78,478	2.4	12.8	3.4	958
Gibson City	8,955	4.1	15.9	3.6	1,205
Glendale Heights	43,884	3.3	14.2	3.6	1,068
Granite City	57,812	5.4	23.3	5.3	1,390
Greenville	13,706	3.5	14.7	3.1	944
Harrisburg	20,509	3.4	13.2	3.4	904
Harvard	10,790	4.1	14.2	3.8	814
Harvey	127,326	3.5	15.4	3.2	1,095
Havana	7,680	4.8	20.9	4.8	1,512
Hazel Crest	110,480	3.6	15.2	3.4	1,182
Herrin	39,421	3.5	14.4	3.5	1,105
Highland	19,091	3.6	14.2	3.1	973
Highland Park	70,163	3.3	14.3	3.7	1,074
Hillsboro	21,015	4.1	14.0	3.3	1,020
Hinsdale	105,246	2.9	13.0	3.6	972
Hoffman Estates	97,044	1.9	10.0	2.8	779
Hoopeston	6,600	5.1	15.9	3.9	1,336
Hopedale	6,286	3.7	19.5	3.5	1,393
Jacksonville	51,703	3.5	14.3	3.3	1,002
Jerseyville	17,263	5.2	17.6	4.0	1,139
Joliet	297,781	3.2	14.6	3.1	969
Kankakee	109,091	5.1	18.4	4.5	1,526
Kewanee	18,512	3.3	15.2	3.9	1,066
La Grange	120,869	3.0	14.8	4.0	1,193
Lake Forest	34,810	2.8	14.2	4.0	940
Lawrenceville	13,426	5.2	18.2	4.3	1,268
Libertyville	108,060	2.7	12.7	3.5	880
Lincoln	22,539	2.9	15.9	3.1	1,151
Litchfield	23,405	4.5	15.5	4.1	1,136
Macomb	41,682	3.4	12.6	2.9	974
Marion	27,662	3.4	14.1	3.4	1,092
Maryville	74,867	3.7	14.9	3.7	1,012
Mattoon	69,630	2.7	12.8	3.0	984
Mchenry	80,690	2.9	12.5	3.2	987
Mcleansboro	9,552	4.3	11.9	2.8	916

Hospital Service Area	Resident Population	Acute Care Beds per 1000	Hospital Employees per 1000	Hospital-based Registered Nurses per 1000	Price-Adjusted Expenditures per capita
Melrose Park	160,285	3.2	14.6	3.7	1,151
Mendota	21,209	4.5	13.6	3.9	1,108
Metropolis	14,736	4.1	14.8	3.3	985
Monmouth	17,759	4.1	15.5	3.9	1,178
Monticello	8,147	3.5	14.5	2.9	1,123
Morris	31,960	3.7	16.5	4.0	1,126
Mount Carmel	13,551	5.1	16.3	4.2	1,169
Mount Vernon	46,308	3.5	16.2	4.0	1,397
Murphysboro	20,733	3.5	14.5	3.7	998
Naperville	151,644	2.0	10.8	3.2	860
Nashville	10,358	4.7	16.7	4.0	1,268
Oak Lawn	235,770	3.8	16.5	4.3	1,251
Oak Park	80,199	3.4	14.6	3.6	1,122
Olney	20,098	3.9	13.8	3.3	955
Ottawa	31,917	4.6	14.5	4.4	1,111
Palos Heights	141,604	3.1	14.0	3.7	1,072
Pana	8,320	4.9	15.0	3.6	1,165
Paris	14,177	4.3	16.9	3.8	1,345
Park Ridge	170,999	3.2	15.8	4.2	1,128
Pekin	55,126	3.5	16.0	3.7	1,161
Peoria	286,834	2.8	16.0	3.6	1,179
Peru	28,896	4.5	18.8	5.1	1,470
Pinckneyville	9,588	5.0	18.3	4.5	1,465
Pittsfield	13,642	4.6	15.1	3.5	1,073
Pontiac	29,416	4.5	16.1	3.5	1,366
Princeton	24,176	4.1	14.9	4.1	1,216
Quincy	89,858	2.9	13.5	3.1	854
Red Bud	21,433	3.8	16.2	3.8	1,081
Robinson	18,603	4.1	14.5	4.3	1,074
Rochelle	17,909	3.5	13.8	3.7	979
Rock Island	115,630	3.6	12.5	3.2	969
Rockford	285,530	2.9	13.9	3.8	1,018
Rosiclare	5,888	6.9	17.3	3.0	1,040
Rushville	8,309	3.7	14.5	3.2	1,092
Salem	15,949	5.0	19.1	5.0	1,409
Sandwich	16,546	3.7	11.4	3.1	831
Shelbyville	15,737	4.9	18.5	4.1	1,325
Silvis	50,832	3.9	14.1	4.0	1,031
Skokie	54,269	3.6	17.8	4.5	1,184
Sparta	11,195	5.1	16.2	3.3	1,152
Spring Valley	14,001	4.1	16.1	4.2	1,334
Springfield	229,063	3.6	16.6	3.7	1,173
Staunton	9,764	6.1	19.8	5.1	1,474
Sterling	53,374	3.8	15.1	3.6	1,208
Streator	38,382	4.3	16.3	4.0	1,299
Taylorville	21,109	5.6	21.2	4.2	1,437
Urbana	205,867	2.3	10.0	2.5	794

Hospital Service Area	Resident Population	Acute Care Beds per 1000	Hospital Employees per 1000	Hospital-based Registered Nurses per 1000	Price-Adjusted Expenditures per capita
Vandalia	14,713	5.0	15.8	3.3	1,193
Watseka	21,442	4.4	16.2	4.1	1,248
Waukegan	208,959	3.4	14.2	3.2	1,039
West Frankfort	14,991	4.3	15.8	4.2	1,197
Winfield	173,873	2.5	11.9	3.4	896
Woodstock	23,376	4.0	14.5	3.9	1,003
Indiana					
Anderson	126,156	4.6	17.7	3.8	1,231
Angola	24,677	4.4	17.7	4.0	1,304
Auburn	35,564	2.5	12.7	3.2	880
Batesville	18,950	4.2	17.9	4.4	1,358
Bedford	52,039	3.7	18.2	4.1	1,125
Beech Grove	163,183	3.3	17.9	4.7	1,319
Bloomington	144,870	2.2	12.9	3.2	896
Bluffton	30,547	3.5	14.0	2.9	937
Boonville	13,342	4.7	20.0	4.7	1,318
Brazil	20,484	4.8	13.6	3.6	957
Bremen	13,324	2.5	8.3	2.2	609
Charlestown	12,901	6.7	16.7	3.5	889
Clinton	26,538	3.4	14.4	3.4	1,037
Columbia City	25,697	2.9	14.1	3.5	1,013
Columbus	73,199	3.2	15.9	4.0	1,278
Connersville	28,544	4.0	18.8	4.2	1,272
Corydon	33,456	3.2	12.7	2.7	847
Crawfordsville	36,620	3.3	12.9	3.1	1,025
Crown Point	74,348	3.7	14.8	3.4	1,088
Danville	54,074	3.1	13.7	3.8	986
Decatur	30,195	3.9	14.7	3.6	970
Dyer	32,364	3.2	12.7	3.2	982
East Chicago	33,775	7.1	31.2	7.2	2,456
Elkhart	103,903	2.9	11.7	3.3	868
Elwood	13,598	4.7	18.4	4.2	1,184
Evansville	261,319	3.5	14.3	3.7	1,051
Fort Wayne	322,307	2.7	12.0	2.9	919
Frankfort	24,958	3.8	17.3	4.7	1,266
Franklin	42,222	3.6	19.2	4.4	1,332
Gary	238,779	4.9	18.8	3.4	1,475
Goshen	78,345	2.0	10.9	3.0	698
Greencastle	27,351	4.3	15.4	3.9	1,076
Greenfield	50,949	2.8	13.9	3.1	910
Greensburg	19,250	4.5	19.8	4.9	1,300
Hammond	90,609	5.0	19.8	4.7	1,555
Hartford City	13,515	4.5	17.5	3.4	1,204
Huntingburg	25,304	3.9	13.6	4.5	957
Huntington	25,854	4.0	17.1	3.9	1,168
Indianapolis	813,184	3.4	18.3	4.4	1,367
Jasper	29,569	3.1	14.8	3.7	936

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Jeffersonville	73,614	3.9	15.7	3.9	1,064
Kendallville	18,523	3.1	20.5	5.6	1,199
Knox	18,439	3.7	18.6	4.1	1,304
Kokomo	101,437	3.7	18.4	4.4	1,156
Lafayette	176,293	2.7	13.3	3.3	960
Lagrange	26,120	2.6	10.5	2.4	789
Laporte	54,617	3.6	14.9	3.6	1,236
Lawrenceburg	41,081	3.5	14.6	3.5	994
Lebanon	23,836	3.5	17.6	3.6	1,200
Linton	14,651	4.7	16.4	4.3	1,075
Logansport	33,171	3.7	16.9	3.8	1,094
Madison	48,242	3.6	14.2	3.2	1,084
Marion	80,147	3.6	15.0	3.8	1,069
Martinsville	34,988	3.4	15.3	3.4	968
Michigan City	64,754	4.6	16.0	3.6	1,339
Mishawaka	29,911	3.4	14.4	4.7	1,272
Monticello	17,391	4.1	18.3	4.4	1,325
Muncie	149,162	3.1	11.8	2.5	1,000
Munster	139,544	4.0	16.9	4.5	1,288
New Albany	71,408	3.8	15.6	3.8	1,048
New Castle	33,184	4.3	19.5	5.0	1,418
Noblesville	48,760	3.1	15.1	3.3	995
North Vernon	16,639	4.2	15.2	3.5	1,186
Paoli	12,467	3.7	16.0	3.6	1,010
Peru	29,252	3.9	18.0	3.7	1,245
Plymouth	23,540	3.2	12.4	3.5	997
Portland	16,513	4.1	13.9	3.2	1,063
Princeton	14,227	4.9	17.8	4.1	1,194
Rensselaer	14,832	3.8	18.2	4.5	1,214
Richmond	86,249	3.2	13.6	3.2	1,019
Rochester	21,139	3.5	16.9	3.6	1,138
Rushville	15,749	4.7	18.1	4.4	1,277
Salem	23,542	3.8	13.1	2.9	987
Scottsburg	19,827	6.4	13.9	2.7	884
Seymour	38,702	4.1	19.3	4.2	1,401
Shelbyville	31,150	3.5	14.4	3.6	1,020
South Bend	231,073	2.8	12.2	3.7	1,037
Sullivan	18,338	4.3	14.8	3.6	1,013
Tell City	19,133	4.5	15.2	3.6	996
Terre Haute	131,930	3.5	15.1	4.2	1,095
Tipton	13,546	6.2	20.2	4.0	1,170
Valparaiso	89,415	4.0	14.9	4.3	1,080
Vincennes	51,319	3.8	17.7	4.4	1,168
Wabash	32,515	3.6	13.9	3.4	1,004
Warsaw	48,340	3.0	12.1	2.9	979
Washington	27,272	4.3	15.1	3.8	1,011
Williamsport	6,548	3.1	12.7	2.8	839

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Winamac	14,609	4.8	18.4	4.5	1,215
Winchester	8,830	4.5	16.6	3.5	1,275
Michigan					
Adrian	60,613	3.9	16.3	3.8	1,047
Albion	13,514	5.2	18.3	4.3	1,203
Allegan	22,512	2.9	11.7	3.1	882
Alma	55,067	3.2	12.9	2.8	983
Alpena	45,125	3.6	13.4	3.0	1,081
Ann Arbor	460,644	2.3	13.0	2.9	1,028
Bad Axe	19,988	3.7	14.8	2.8	1,056
Battle Creek	110,090	2.5	13.2	3.8	969
Bay City	121,196	3.4	15.7	3.4	1,002
Berrien Center	2,324	(2.3)	(13.4)	(2.9)	(721)
Big Rapids	29,441	3.2	12.3	3.5	932
Cadillac	46,733	3.0	13.3	3.2	912
Caro	11,389	4.4	15.0	3.1	1,067
Carson City	17,396	3.7	18.0	3.6	1,235
Cass City	9,209	5.7	19.2	4.0	1,272
Charlevoix	15,126	3.5	12.8	3.6	925
Charlotte	24,486	3.5	15.3	3.3	1,000
Cheboygan	14,962	3.3	11.9	3.3	916
Chelsea	18,874	2.6	14.1	3.0	958
Clare	28,093	4.3	17.0	3.5	1,431
Coldwater	40,413	3.2	15.8	3.7	1,242
Crystal Falls	4,804	5.9	15.6	3.5	1,156
Dearborn	156,394	3.4	16.9	3.7	1,160
Deckerville	6,871	3.4	14.7	3.3	1,039
Detroit	1,177,213	4.1	21.0	4.8	1,446
Dowagiac	14,921	4.2	17.3	4.7	1,304
Escanaba	38,871	2.9	14.0	3.2	1,108
Farmington Hills	90,061	2.5	13.8	3.2	957
Flint	475,811	4.1	17.4	3.9	1,275
Frankfort	3,168	(5.1)	(19.5)	(4.5)	(1,562)
Fremont	23,544	3.5	15.5	4.2	1,164
Garden City	67,969	3.4	17.3	3.8	1,198
Gaylord	21,877	3.4	15.2	3.6	1,043
Gladwin	11,790	5.1	20.8	4.3	1,820
Grand Haven	42,500	2.6	11.3	2.7	840
Grand Rapids	652,385	2.3	11.6	3.4	849
Grayling	28,928	3.8	18.8	4.5	1,368
Greenville	13,153	3.5	16.3	4.1	1,297
Grosse Pointe	51,378	3.1	15.1	3.7	1,002
Hancock	23,539	2.8	12.1	2.1	908
Harbor Beach	5,536	5.2	18.0	3.1	1,057
Hastings	39,520	2.9	12.3	3.1	864
Hillsdale	34,346	3.7	15.0	3.5	1,203
Holland	88,225	2.6	10.6	2.8	736

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Howell	41,178	2.9	16.8	4.0	1,220
Ionia	22,975	4.0	12.9	3.3	885
Iron Mountain	39,647	3.0	13.9	3.0	1,033
Iron River	8,921	4.9	16.2	3.7	1,236
Ironwood	22,405	3.2	11.7	2.3	941
Ishpeming	11,725	4.7	14.9	2.7	1,223
Jackson	155,656	3.5	14.6	3.6	983
Kalamazoo	274,951	2.5	12.3	3.1	1,017
Lakeview	6,000	2.8	11.1	2.7	784
L'Anse	9,894	3.4	16.3	2.8	1,179
Lansing	403,887	3.0	15.7	3.6	1,080
Lapeer	74,527	3.3	14.7	2.8	923
Laurium	12,722	4.1	16.0	3.9	1,062
Livonia	170,245	2.8	14.9	3.4	1,033
Ludington	25,989	3.3	13.1	3.2	1,029
Madison Heights	52,414	3.1	18.6	4.2	1,106
Manistee	20,195	3.2	14.1	3.5	1,001
Manistique	9,668	5.1	16.1	3.3	1,222
Marlette	7,277	3.7	19.7	3.6	1,271
Marquette	64,716	3.2	11.8	2.0	982
Marshall	22,525	3.6	13.1	3.5	873
Midland	73,291	3.1	14.0	3.1	1,286
Milford	84,255	2.4	12.5	3.2	955
Monroe	83,568	3.2	16.3	4.4	1,066
Mount Clemens	316,640	2.9	15.2	3.4	937
Mount Pleasant	41,455	2.9	11.3	2.5	899
Munising	5,066	6.2	14.3	2.6	1,071
Muskegon	172,932	3.4	12.3	2.8	1,036
Newberry	7,521	6.8	19.8	3.6	1,549
Niles	55,328	3.3	14.4	4.1	1,043
Northport	1,663	(5.8)	(21.1)	(3.8)	(1,240)
Ontonagon	5,090	7.4	19.0	2.9	1,163
Owosso	61,109	3.6	16.3	3.9	1,236
Paw Paw	28,738	2.4	10.9	3.0	826
Petoskey	62,514	3.2	12.0	3.5	913
Pigeon	6,523	5.3	22.3	4.4	1,537
Pontiac	306,985	3.3	16.3	3.7	1,114
Port Huron	125,397	3.1	14.1	3.4	889
Reed City	16,909	4.2	18.8	4.7	1,352
Rochester	100,554	2.4	13.9	3.3	915
Royal Oak	335,803	2.8	18.8	4.2	1,152
Saginaw	229,761	3.4	17.0	3.9	1,142
Saline	13,356	2.3	13.6	2.6	920
Sandusky	6,499	4.3	18.8	3.9	1,336
Sault Ste Marie	34,126	3.4	12.6	3.4	945
South Haven	23,447	3.6	14.0	3.8	1,036
Southfield	51,405	3.7	23.0	5.3	1,542
St Clair	27,663	3.2	14.5	3.6	872
St Johns	16,472	2.6	13.9	3.2	961
St Joseph	106,962	3.0	17.1	3.7	1,107
Standish	11,090	3.4	21.4	3.7	1,241
Sturgis	25,950	3.1	13.3	3.5	1,144
Tawas City	33,553	3.7	17.8	3.9	1,264
Taylor	70,811	2.9	12.4	2.8	846
Tecumseh	22,916	3.0	15.3	3.7	1,099
Three Rivers	32,083	2.5	10.1	2.7	898
Traverse City	123,554	3.2	14.9	3.5	1,097
Trenton	82,444	3.3	11.9	2.6	863
Troy	110,595	2.1	13.0	2.9	802
Warren	238,759	3.3	16.2	3.6	1,071
Watervliet	13,163	3.6	16.1	3.7	1,093
Wayne	159,077	3.1	13.8	3.1	966
West Branch	29,742	4.0	16.4	4.2	1,148
Wyandotte	146,521	4.1	17.0	3.6	1,139
Zeeland	15,649	2.4	9.7	2.6	642
Ohio					
Akron	448,050	3.4	17.8	4.8	1,417
Alliance	49,003	2.9	13.0	2.8	884
Ashland	39,737	2.5	12.2	2.5	915
Ashtabula	51,352	4.0	15.2	4.0	1,023
Athens	44,152	2.8	11.6	2.9	885
Barberton	58,441	3.1	15.8	3.8	1,134
Barnesville	22,508	4.3	17.4	4.3	1,170
Batavia	42,809	4.5	23.1	4.7	1,348
Bedford	33,014	3.8	15.6	3.9	1,100
Bellaire	22,777	4.7	17.5	4.2	1,234
Bellefontaine	44,148	4.3	16.5	4.0	1,387
Bellevue	24,011	3.7	14.5	3.8	1,212
Bluffton	8,081	3.7	10.6	3.1	830
Bowling Green	58,997	3.4	12.5	3.6	840
Bryan	41,316	4.0	14.2	4.2	1,053
Bucyrus	21,211	4.3	16.1	3.9	1,134
Cadiz	10,563	5.4	17.1	3.3	1,177
Cambridge	53,895	3.2	14.3	3.6	1,058
Canton	268,826	3.7	13.5	3.7	1,096
Chardon	50,047	2.2	9.4	2.3	693
Chillicothe	74,261	3.1	13.1	3.1	1,212
Cincinnati	1,102,793	3.3	16.1	4.1	1,304
Circleville	21,875	2.8	11.7	2.8	902
Cleveland	953,736	3.8	18.1	4.5	1,307
Coldwater	37,723	3.9	15.6	4.7	1,107
Columbus	1,108,432	2.9	14.3	3.6	1,174
Conneaut	18,072	4.4	15.3	4.6	933
Coshocton	32,878	4.2	15.3	4.3	1,228

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Dayton	534,433	3.7	16.3	4.3	1,167
Defiance	37,492	3.7	12.2	3.2	1,059
Delaware	36,873	2.9	14.2	4.1	1,106
Dennison	18,574	4.0	12.2	3.0	833
Dover	53,598	3.6	12.7	3.2	950
East Liverpool	48,817	4.8	18.1	4.3	1,197
Elyria	105,467	3.3	12.2	3.2	877
Euclid	61,147	4.1	14.7	3.7	1,040
Findlay	69,747	2.4	11.2	3.3	811
Fostoria	22,243	3.9	16.7	4.9	1,253
Fremont	43,779	4.0	15.1	3.9	1,297
Galion	25,792	4.5	18.5	4.2	1,267
Gallipolis	68,718	4.6	14.4	3.2	1,115
Garfield Heights	57,965	4.6	19.7	4.3	1,370
Geneva	17,673	3.5	14.3	3.5	908
Georgetown	24,440	3.5	16.6	3.7	1,009
Greenfield	9,107	3.2	13.4	3.5	1,098
Greenville	43,145	3.3	11.9	3.0	888
Hamilton	149,045	3.1	13.4	3.7	1,009
Hicksville	6,504	3.6	12.9	2.7	918
Hillsboro	19,825	3.6	17.4	3.6	1,340
Ironton	29,285	7.7	19.8	4.6	1,488
Kenton	22,059	3.1	14.2	3.5	980
Kettering	199,811	3.1	14.1	3.5	1,002
Lakewood	59,702	3.1	13.3	3.9	923
Lancaster	74,606	3.2	13.7	3.4	1,095
Lima	176,674	3.4	15.2	4.4	1,130
Lodi	8,567	3.1	14.6	3.4	976
Logan	20,448	4.0	17.4	4.0	1,235
London	19,971	4.7	16.4	3.1	1,056
Lorain	135,692	4.0	16.0	4.1	1,051
Loudonville	4,767	6.0	14.8	3.6	1,095
Mansfield	115,010	3.5	12.9	3.7	995
Marietta	60,139	4.0	16.0	3.8	1,138
Marion	72,421	3.4	14.2	3.8	1,137
Martins Ferry	25,724	4.1	17.7	5.5	1,324
Marysville	23,385	3.2	20.6	4.6	1,640
Massillon	100,327	3.2	13.0	3.0	930
Maumee	79,703	3.1	13.4	3.6	1,011
Mayfield Heights	61,824	3.4	16.6	4.6	1,242
Medina	50,462	2.8	12.7	3.4	909
Middletown	107,263	3.1	12.5	4.0	955
Millersburg	30,452	2.0	7.2	1.2	548
Mount Gilead	14,644	3.9	12.8	3.4	1,113
Mount Vernon	55,113	3.4	13.1	3.6	1,232
Napoleon	19,250	4.0	15.5	3.6	1,209
Nelsonville	15,150	4.1	18.0	3.9	1,256

Hospital Service Area	Resident Population	Acute Care Beds per 1000	Hospital Employees per 1000	Hospital-based Registered Nurses per 1000	Price-Adjusted Expenditures per capita
Newark	97,767	2.4	13.9	4.1	872
Norwalk	41,332	3.8	14.3	3.3	1,190
Oberlin	21,501	4.0	11.2	2.8	723
Oregon	88,211	3.9	18.6	5.1	1,344
Orrville	13,821	3.0	12.3	2.9	858
Oxford	44,301	2.7	12.5	3.4	879
Painesville	195,446	2.8	12.2	2.8	774
Parma/Middleburg Hts	280,489	3.2	14.6	3.3	1,023
Paulding	13,897	5.5	17.5	4.5	1,317
Piqua	45,920	3.8	18.4	4.0	1,106
Pomeroy	13,676	3.9	13.6	3.1	1,021
Port Clinton	26,825	3.8	17.3	3.9	1,411
Portsmouth	97,331	4.0	19.4	4.5	1,430
Ravenna	123,332	3.4	12.3	3.2	927
Salem	70,225	3.2	13.2	2.9	917
Sandusky	67,299	5.1	15.9	3.9	1,570
Shelby	16,207	3.5	15.3	4.1	1,181
Sidney	36,536	3.7	16.5	4.3	1,239
Springfield	124,437	3.3	17.0	4.3	1,073
St Marys	26,598	4.1	17.9	4.7	1,321
Steubenville	68,262	6.7	19.5	4.5	1,572
Sylvania	39,492	2.8	15.2	3.6	1,177
Tiffin	36,226	3.9	16.6	4.5	1,301
Toledo	382,633	4.1	20.8	5.6	1,621
Troy	50,113	2.8	12.2	3.1	907
Upper Sandusky	12,766	3.5	14.4	3.3	1,092
Urbana	28,018	3.2	14.5	3.8	1,095
Van Wert	31,165	3.7	12.0	3.4	918
Wadsworth	38,426	2.6	12.5	3.3	859
Warren	181,045	4.5	17.9	5.0	1,362
Washington Ct House	25,359	2.6	12.2	3.4	1,050
Wauseon	31,811	3.7	15.1	4.3	1,037
Waverly	21,717	3.8	16.1	3.6	1,301
West Union	22,044	9.7	38.9	9.2	3,049
Westlake	51,431	3.2	12.4	3.3	928
Willard	18,070	3.1	14.4	3.7	1,097
Wilmington	44,156	3.4	16.7	3.9	1,317
Wooster	67,900	2.6	11.5	2.7	836
Xenia	53,694	3.4	12.7	3.2	812
Youngstown	302,953	3.7	15.9	4.0	1,372
Zanesville	121,637	3.5	17.6	4.9	1,195
Wisconsin					
Amery	11,473	4.1	13.9	3.7	1,364
Antigo	24,255	2.9	13.5	3.1	999
Appleton	165,528	2.8	10.6	2.5	808
Arcadia	4,707	4.8	12.1	2.8	768
Ashland	27,562	3.5	12.8	3.5	951

Hospital Service Area	Resident Population	Acute Care Beds per 1000	Hospital Employees per 1000	Hospital-based Registered Nurses per 1000	Price-Adjusted Expenditures per capita	Hospital Service Area	Resident Population	Acute Care Beds per 1000	Hospital Employees per 1000	Hospital-based Registered Nurses per 1000	Price-Adjusted Expenditures per capita
Baldwin	8,876	3.9	13.8	3.7	1,031	Monroe	37,602	3.4	17.8	5.0	1,464
Baraboo	25,198	3.4	12.7	2.9	1,027	Neenah	58,629	3.2	13.4	3.2	878
Barron	13,460	4.3	12.3	3.8	993	Neillsville	4,904	5.3	16.2	3.9	1,073
Beaver Dam	42,292	3.3	14.4	4.1	1,068	New London	17,274	3.4	11.5	2.6	852
Beloit	56,951	3.1	14.1	3.4	998	New Richmond	17,797	2.1	9.7	2.8	675
Berlin	35,674	3.4	13.9	3.4	1,092	Oconomowoc	40,173	2.9	12.7	3.0	963
Black River Falls	13,272	3.5	11.0	2.8	823	Oconto Falls	10,389	2.9	13.2	3.4	975
Bloomer	8,511	4.7	12.8	3.3	855	Osceola	2,062	(10.3)	(32.4)	(7.6)	(3,024)
Boscobel	6,750	5.0	15.7	3.9	1,126	Oshkosh	79,878	2.9	12.6	3.0	894
Brookfield	35,205	2.8	10.6	2.7	853	Park Falls	14,710	3.8	12.5	3.0	943
Burlington	45,794	2.7	12.3	3.3	977	Phelps	4,062	5.0	19.1	3.4	1,366
Chilton	13,320	3.4	11.8	2.6	829	Platteville	14,544	2.1	11.3	2.8	910
Chippewa Falls	38,098	4.2	11.9	3.3	872	Plymouth	14,408	4.6	13.5	3.3	1,074
Columbus	11,609	3.9	14.2	3.8	1,115	Port Washington	35,090	3.5	11.1	2.8	872
Cudahy	59,130	3.1	14.4	3.9	1,047	Portage	24,536	3.3	15.9	4.1	1,299
Cumberland	10,734	4.4	14.4	3.9	1,145	Prairie Du Chien	15,348	3.6	14.1	4.0	960
Darlington	6,348	4.4	12.8	3.0	1,010	Prairie Du Sac	20,845	2.5	14.7	3.7	1,112
Dodgeville	17,088	3.2	13.6	3.6	1,069	Racine	145,112	3.3	12.7	3.6	886
Durand	8,320	4.7	13.3	3.2	1,007	Reedsburg	14,075	2.8	15.0	3.9	1,190
Eagle River	7,765	3.1	13.9	3.2	1,028	Rhinelander	39,410	3.9	13.8	3.2	1,009
Eau Claire	105,310	3.6	10.0	2.8	776	Rice Lake	22,779	3.6	11.2	3.8	910
Edgerton	9,749	4.3	19.6	4.7	1,340	Richland Center	17,519	3.0	13.9	3.4	975
Elkhorn	46,493	2.9	13.3	3.7	1,148	Ripon	10,694	2.7	10.9	3.0	853
Fond Du Lac	84,518	2.6	12.2	3.0	959	River Falls	21,772	2.9	9.7	2.5	855
Fort Atkinson	57,842	2.7	11.9	2.8	1,014	Shawano	27,822	2.6	10.1	2.8	798
Friendship	10,690	4.3	17.3	3.6	1,323	Sheboygan	96,670	3.5	10.5	2.9	812
Grantsburg	8,875	6.0	17.6	4.2	1,436	Shell Lake	9,919	5.9	15.2	3.3	1,225
Green Bay	248,264	2.3	11.2	3.1	797	Spooner	8,842	6.0	14.2	3.7	1,158
Hartford	26,138	2.9	12.8	3.2	891	St Croix Falls	18,606	4.6	15.9	3.8	1,429
Hayward	11,378	4.5	12.5	3.2	980	Stanley	8,524	5.1	12.8	3.4	967
Hillsboro	8,759	2.9	11.6	2.7	874	Stevens Point	65,262	2.8	9.8	2.2	856
Hudson	18,199	3.5	12.2	3.0	772	Stoughton	21,455	2.5	10.8	2.5	731
Janesville	72,515	3.2	14.0	3.4	1,228	Sturgeon Bay	22,057	3.0	16.0	4.2	1,283
Kenosha	119,657	3.4	13.9	3.5	1,026	Tomah	15,440	3.4	10.8	3.4	744
Kewaunee	6,262	2.8	10.2	2.5	723	Two Rivers	20,013	3.6	11.6	2.8	932
La Crosse	175,351	2.8	11.2	2.9	839	Viroqua	20,473	2.0	11.2	2.7	780
Ladysmith	16,156	3.7	10.9	3.0	872	Watertown	25,240	3.5	12.7	3.0	1,040
Lancaster	11,411	3.5	13.1	3.4	944	Waukesha	172,054	2.6	10.1	2.9	850
Madison	360,310	2.3	10.5	2.9	827	Waupaca	21,458	3.1	13.2	3.3	1,034
Manitowoc	49,792	3.8	12.4	3.2	981	Waupun	14,175	3.7	14.4	4.6	1,114
Marinette	49,674	2.7	11.1	2.8	924	Wausau	95,490	2.3	10.0	2.7	804
Marshfield	82,320	3.1	9.8	2.5	866	West Allis	87,372	2.7	13.3	3.0	1,024
Mauston	17,009	2.9	14.9	4.0	1,195	West Bend	50,585	3.1	11.5	3.2	804
Medford	14,849	4.1	11.8	3.1	912	Whitehall	8,503	5.0	16.0	3.6	1,067
Menomonee Falls	64,518	2.4	10.4	2.4	744	Wild Rose	2,127	(6.3)	(22.4)	(4.6)	(1,433)
Menomonie	33,129	3.0	9.2	2.6	723	Wisconsin Rapids	44,084	2.8	10.0	2.6	885
Merrill	21,244	3.7	12.5	3.1	895	Woodruff	17,526	3.6	15.2	3.6	1,513
Milwaukee	886,823	3.0	15.3	4.2	1,206						

PART THREE

The Medicare Program in the Great Lakes States

The Medicare Program in the Great Lakes States

Most Americans over the age of 65 receive their medical care from “traditional” Medicare. That is, their care is obtained from providers who charge on a fee-for-service basis, either as independent practitioners or as members of health maintenance organizations that are not capitated. In 1992-93, over 95% of Medicare outlays for people over 65 was reimbursed on a fee-for-service basis. There were large differences in these reimbursements between hospital service areas in the Great Lakes States: total program outlays varied by a factor of more than 1.8; reimbursements for professional and laboratory services by a factor of more than 3.6; and reimbursements for outpatient services by a factor of more than 2.7.

Many policy experts have recommended greater enrollment in capitated managed care among the Medicare population as a means of both cost containment and improvement in the quality of care. The inequalities between areas in capitation payments, however, raise a serious challenge to implementing this strategy.

The basis for the federal capitation payment for managed care coverage of Medicare enrollees is the Average Adjusted Per Capita Cost, or AAPCC. The amount is determined by the fee-for-service payments in the enrollee’s county of residence. Since there are large differences in reimbursements among hospital service areas, the amount reimbursed varies strikingly from one region to another. These disparities have stimulated a growing debate about geographic equity.

Most of the attention has focused on the differences between states or large sections of the country. For example, the AAPCC for 1996 for residents of the Minneapolis hospital service area was \$4,599. Residents of the Miami hospital service area received \$8,245, which is almost 80% more. Because the federal contribution is based on historical reimbursements within the county where the enrollee lives, there are also striking variations within states. In 1996, the AAPCC in Grand Rapids was \$4,309; in Dearborn, it was \$7,531.

The differences in the AAPCC payment may reflect differences in prices that exist between regions. To remove price as a factor in explaining the differences, the AAPCC has been price adjusted, according to the method described in Part Nine of the national volume. These adjustments, in some cases, make a substantial difference. The benchmarks for the AAPCC in Part Three include adjusted as well as unadjusted rates. Table 3 also contains both.

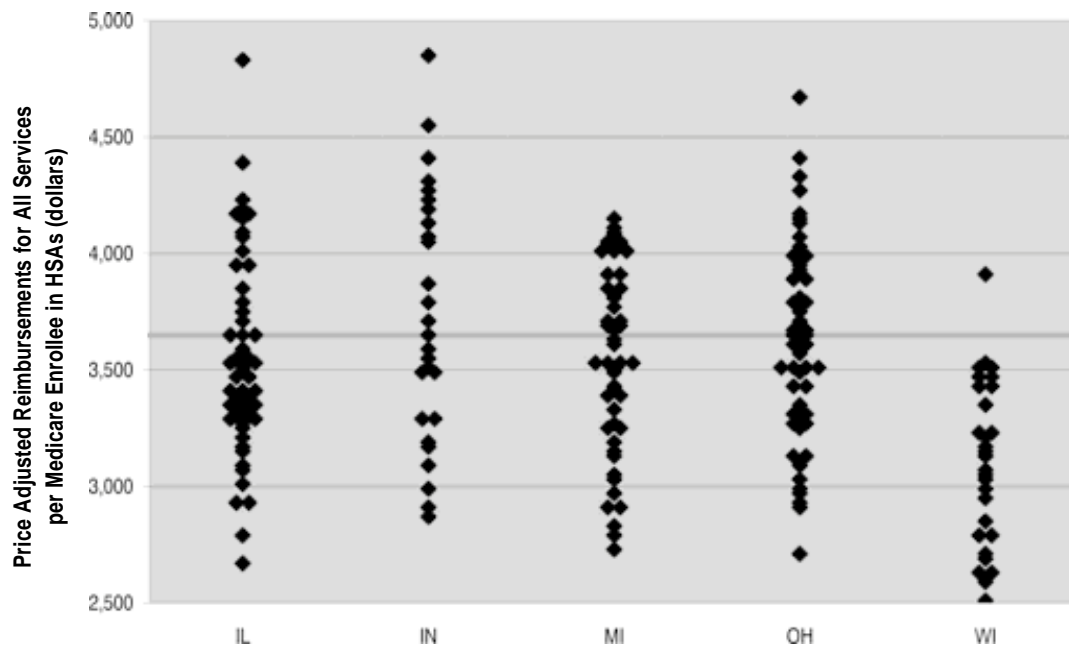
Note on Methods

Estimates for reimbursements are based on a 5% sample of the Medicare population as recorded in the Continuous Medicare History File. The data are for 1992-93, and the rates are an annualized average for the two year period. Fee-for-service reimbursements have been price adjusted to take into account differences in the cost of living among hospital service areas. A description of the methods used to make these price adjustments is in Part Nine of the national volume of the Dartmouth Atlas of Health Care.

The estimates for the AAPCC in each hospital service area have been made as follows. When a hospital service area was located entirely within the boundaries of a county, the AAPCC is for that county. When a hospital service area overlaps two or more counties, the estimate is a weighted average, based on the proportion of the hospital service area's Medicare enrollees who resided in each county in 1993. Price adjustments to the AAPCC were made according to the method described in Part Nine of the national volume of the Atlas. The population used to estimate the dollars above or below the amount predicted by the benchmark (figures 3.10-3.13) is the 1993 enrollee population. The estimates therefore do not include population gains or losses that might have occurred since 1993.

Medicare Reimbursements for Traditional (Noncapitated) Medicare

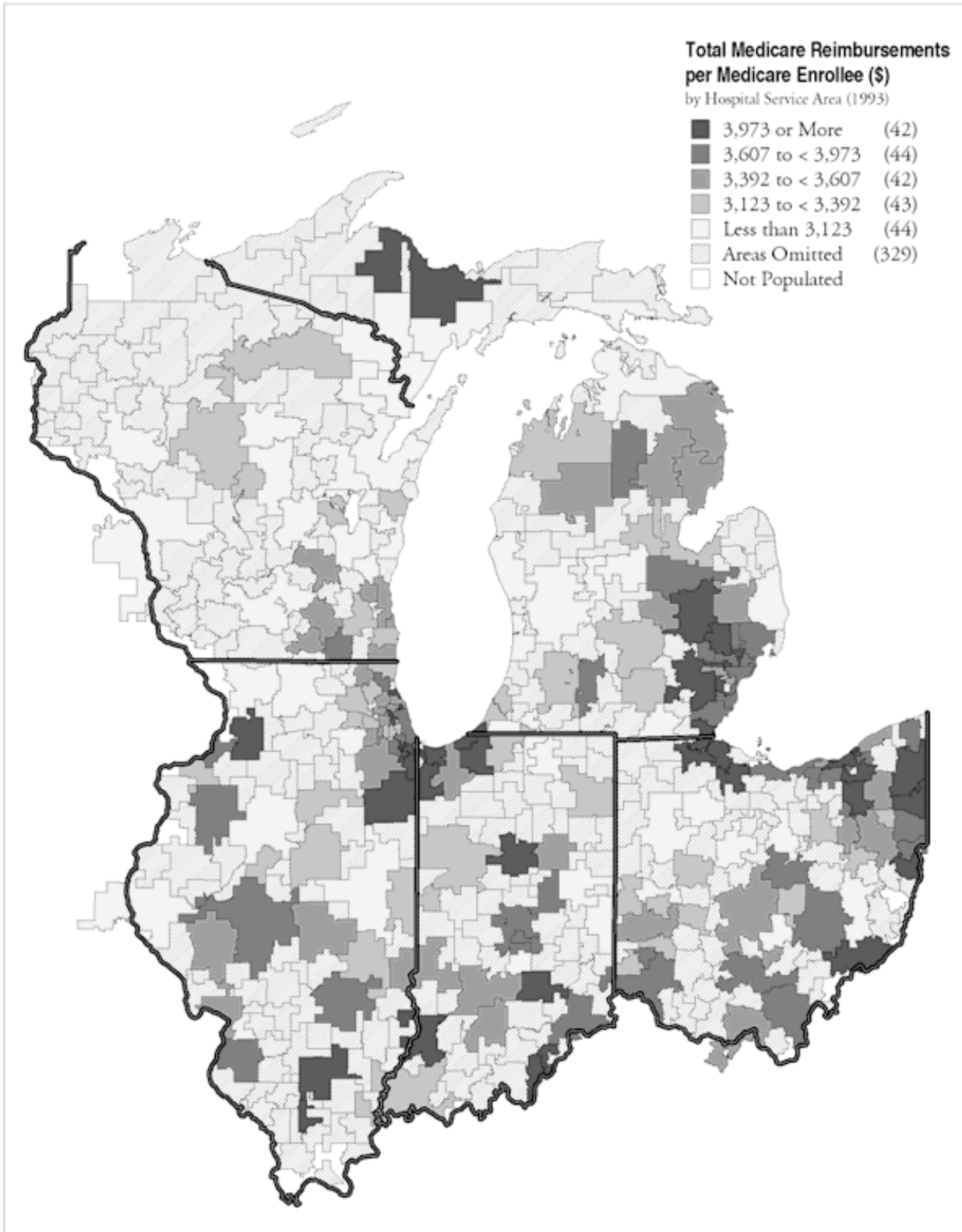
Per enrollee reimbursements by the Medicare program for all services in the Great Lakes States ranged from less than \$2,500 to more than \$4,500. Among the region's larger hospital service areas, per enrollee reimbursements were above the national average of \$3,650 per enrollee in Toledo, Ohio (\$4,175); Cleveland (\$4,136); Ann Arbor, Michigan (\$4,111); Akron, Ohio (\$4,021); Chicago (\$3,949); and Detroit (\$3,914). Reimbursements were near the national average in Indianapolis (\$3,717) and Cincinnati (\$3,614). Milwaukee (\$3,533); Columbus, Ohio (\$3,514); Dayton, Ohio (\$3,513); and Fort Wayne, Indiana (\$3,300) were below the national average.



The Great Lakes States. The gray horizontal line represents the United States average.

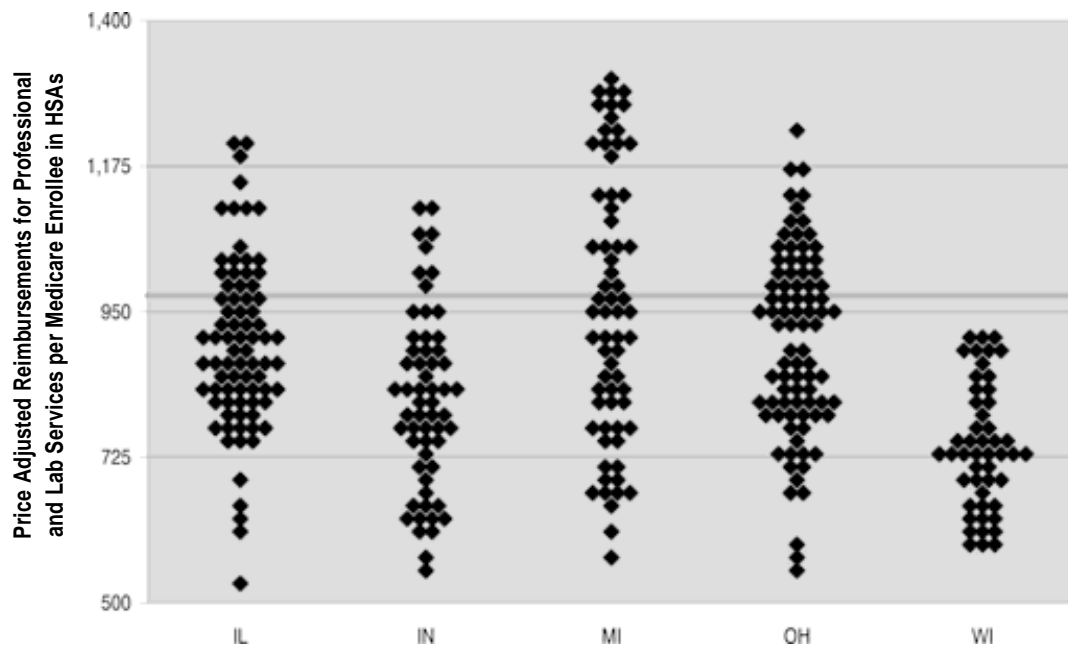
Figure 3.1. Price Adjusted Reimbursements for Traditional (Noncapitated) Medicare in Hospital Service Areas in the Great Lakes States (1992-93)

Per enrollee reimbursements by the Medicare program for all services varied by a factor of more than 1.8. Each point represents one hospital service area.



Medicare Reimbursements for Professional and Laboratory Services

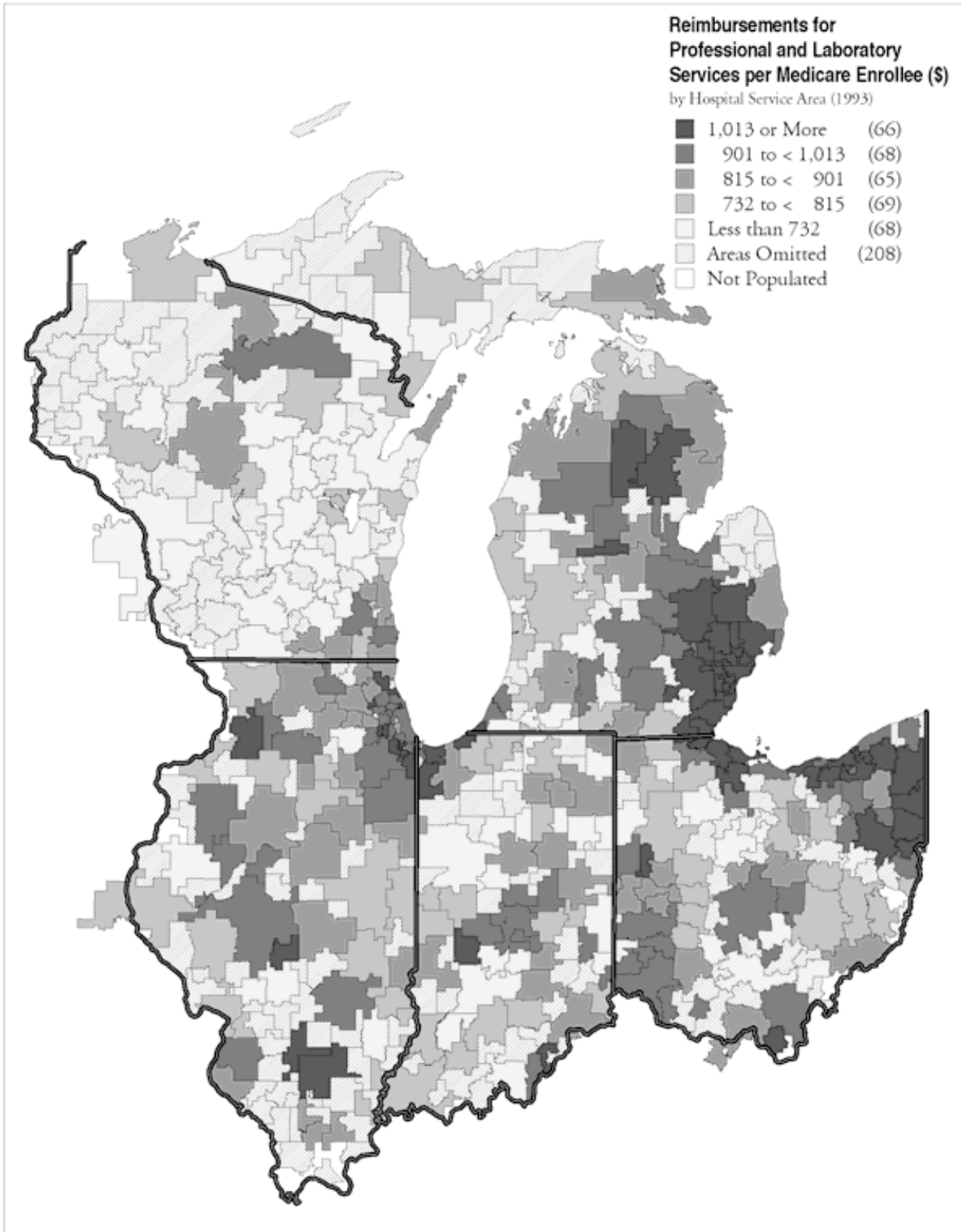
Reimbursements for professional and laboratory services in the Great Lakes States ranged from less than \$600 to more than \$1,250. Among the region's larger hospital service areas, per enrollee reimbursements were substantially higher than the national average of \$975 in Detroit (\$1,209); other areas higher than the national average included Cleveland (\$1,048); Ann Arbor, Michigan (\$1,042); Toledo, Ohio (\$1,014); and Akron, Ohio (\$997). Chicago (\$974) was virtually at the national average; Columbus, Ohio (\$943); Cincinnati (\$941); Dayton, Ohio (\$934); Indianapolis (\$914); Milwaukee, (\$899); and Fort Wayne, Indiana (\$831) were all below it.



The Great Lakes States. The gray horizontal line represents the United States average.

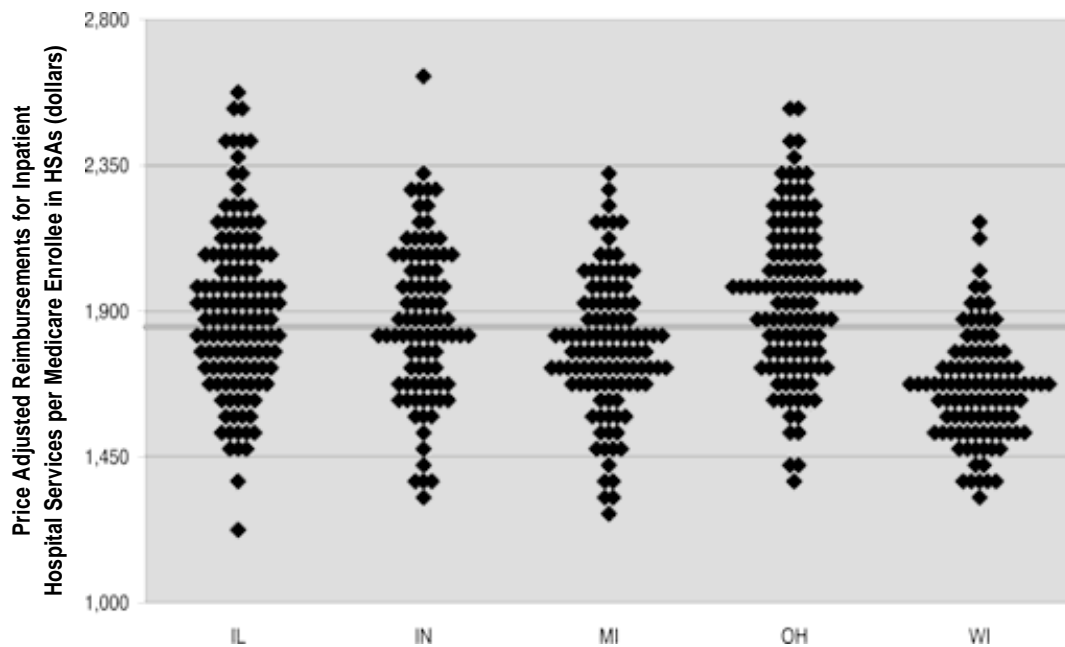
Figure 3.2. Price Adjusted Part B Medicare Reimbursements for Professional and Laboratory Services In Hospital Service Areas in the Great Lakes States (1992-93)

Reimbursements for professional and laboratory services varied by a factor of more than 3.6 per Medicare enrollee. Each point represents one hospital service area.



Medicare Reimbursements for Inpatient Hospital Services

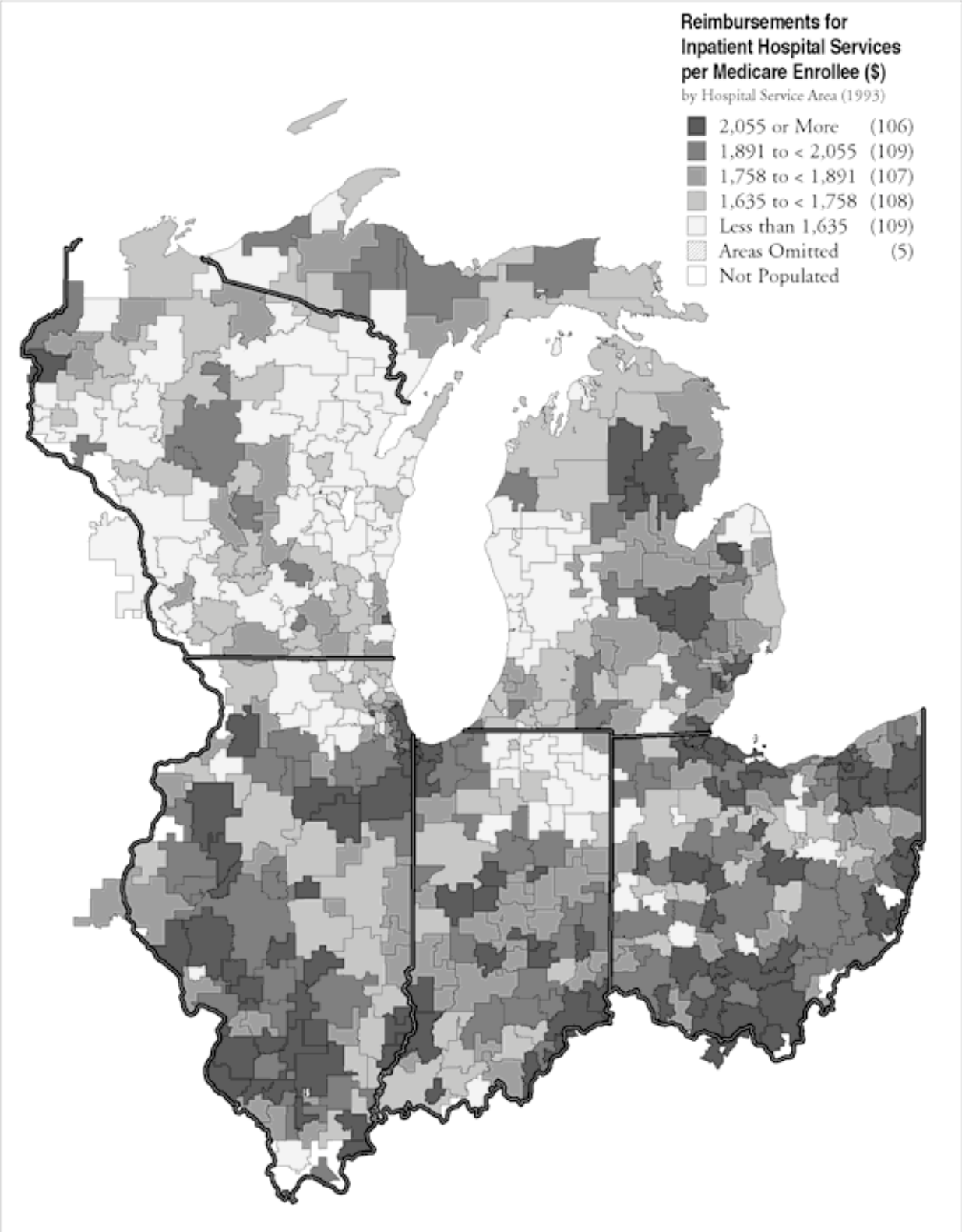
Per enrollee Medicare reimbursements for inpatient acute care hospital services in the Great Lakes States ranged from less than \$1,300 to more than \$2,500. Among the region's larger hospital service areas, per enrollee reimbursements were higher than the national average of \$1,852 in Toledo, Ohio (\$2,439); Akron, Ohio (\$2,228); Chicago (\$2,228); Cleveland (\$2,180); and Detroit (\$2,082). Cincinnati (\$1,899) and Indianapolis (\$1,867) were near the national average; Milwaukee (\$1,819); and Fort Wayne, Indiana (\$1,612) were below it.



The Great Lakes States. The gray horizontal line represents the United States average.

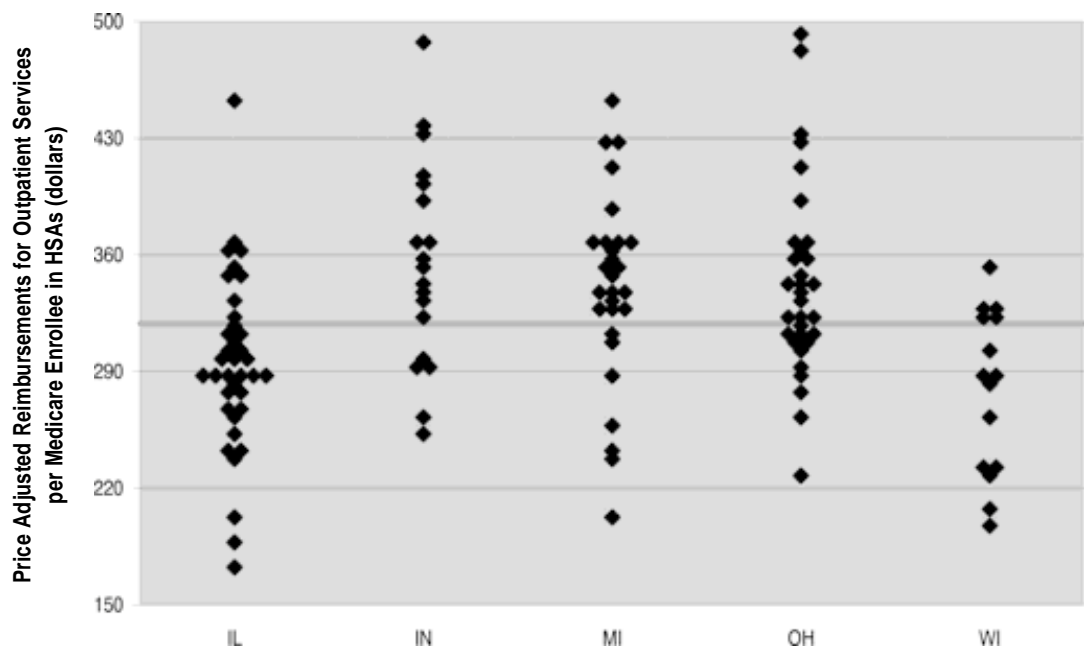
Figure 3.3. Price Adjusted Medicare Reimbursements for Inpatient Hospital Services per Medicare Enrollee in Hospital Service Areas in the Great Lakes States (1992-93)

Per enrollee Medicare reimbursements for inpatient acute care hospital services varied by a factor of more than 2. Each point represents one hospital service area.



Medicare Reimbursements for Outpatient Services

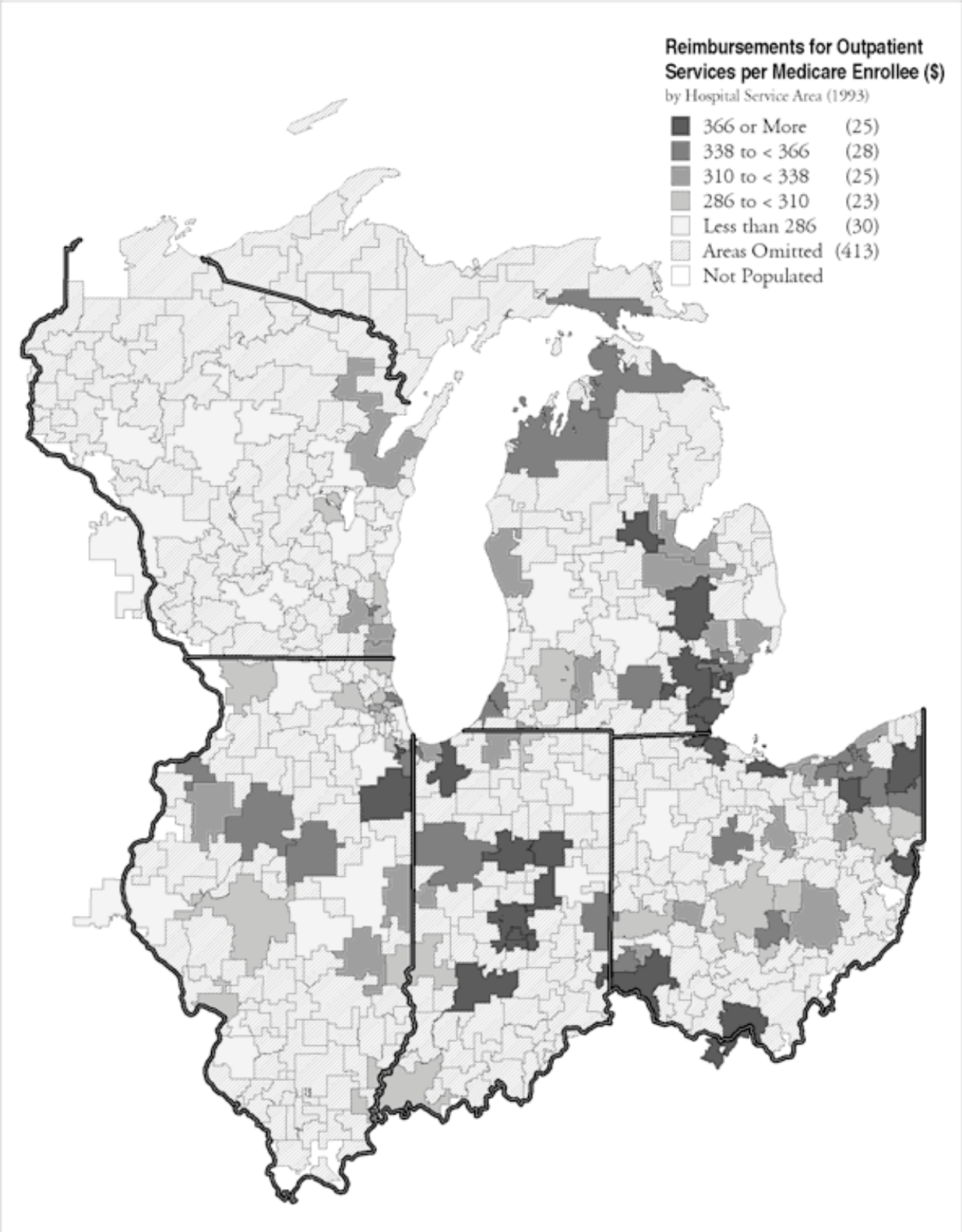
Price adjusted Medicare reimbursements for outpatient services in the Great Lakes States ranged from less than \$200 to more than \$450. Among the region's larger hospital service areas, reimbursements for outpatient services were higher than the national average of \$319 in Toledo, Ohio (\$431); Ann Arbor, Michigan (\$428); Cincinnati (\$411); Akron, Ohio (\$369); Indianapolis (\$367); Cleveland (\$366); and Detroit (\$354). Reimbursements for outpatient services were below the national average in Dayton, Ohio (\$301); Columbus, Ohio (\$290); Milwaukee (\$289); Chicago (\$286); and Fort Wayne, Indiana (\$261).



The Great Lakes States. The gray horizontal line represents the United States average.

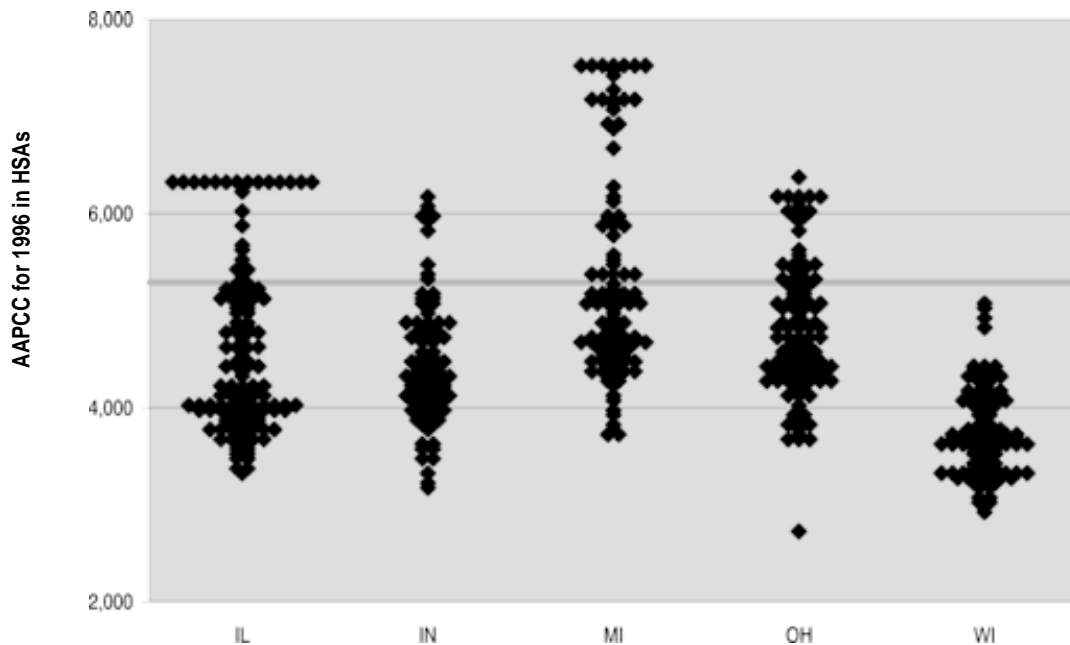
Figure 3.4. Price Adjusted Medicare Reimbursements for Outpatient Services In Hospital Service Areas in the Great Lakes States (1992-93)

Price adjusted Medicare reimbursements for outpatient services varied by a factor of more than 2.7. Each point represents one hospital service area.



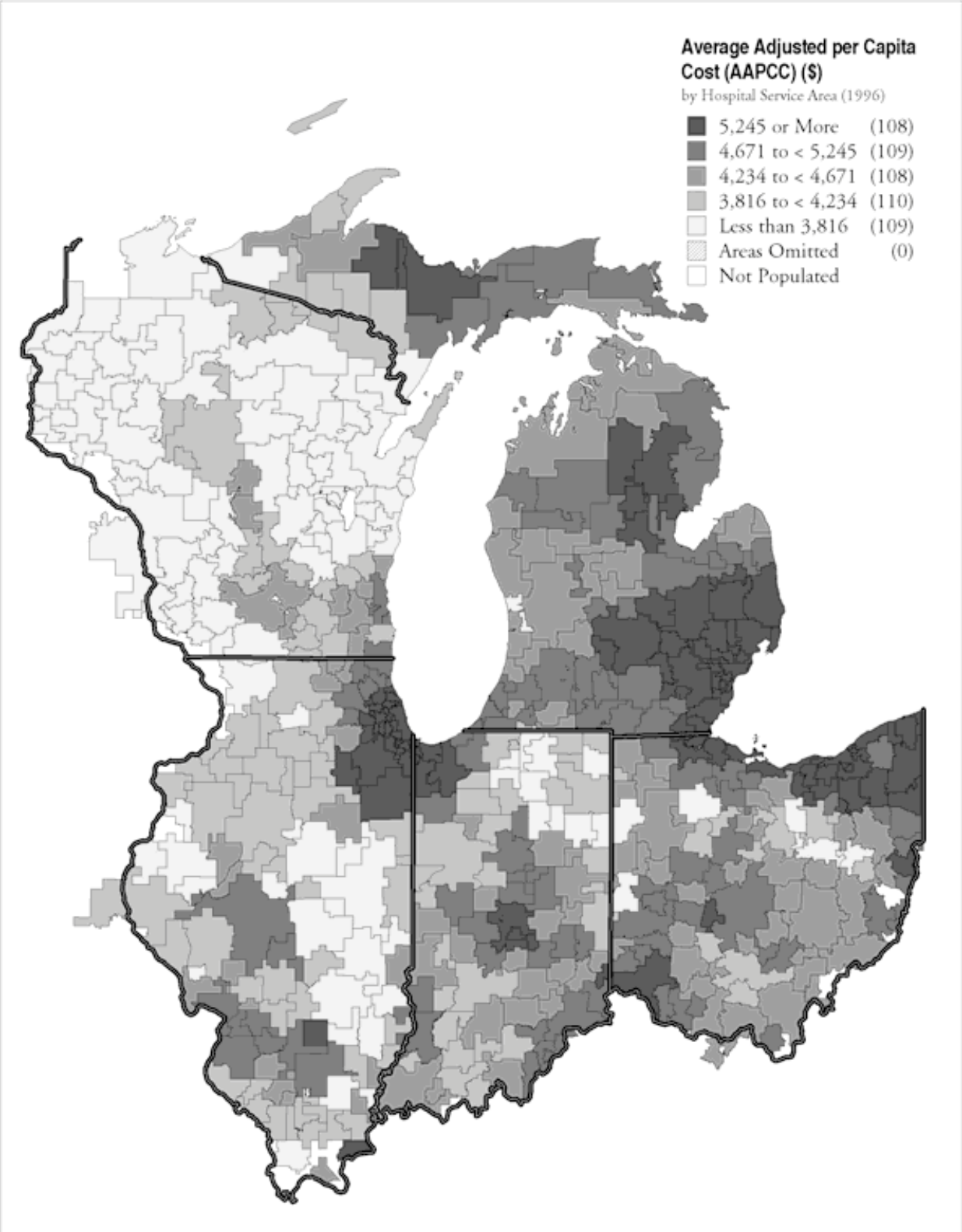
Average Adjusted Per Capita Costs

Adjusted Average per Capita Costs in the Great Lakes States ranged from less than \$3,000 to more than \$7,500. All of the large hospital service areas in Wisconsin and the majority in Indiana were below the national average of \$5,291. Among the region's larger hospital service areas, the AAPCC was well above the national average in Detroit (\$7,442); Ann Arbor, Michigan (\$6,652); Toledo, Ohio (\$6,379); Chicago (\$6,342); Cleveland (\$6,154); and Akron, Ohio (\$6,000). Columbus, Ohio (\$5,153); Dayton, Ohio (\$5,064); Milwaukee (\$5,044); and Fort Wayne, Indiana (\$3,891) were below the national average.



The Great Lakes States. The gray horizontal line represents the United States average.

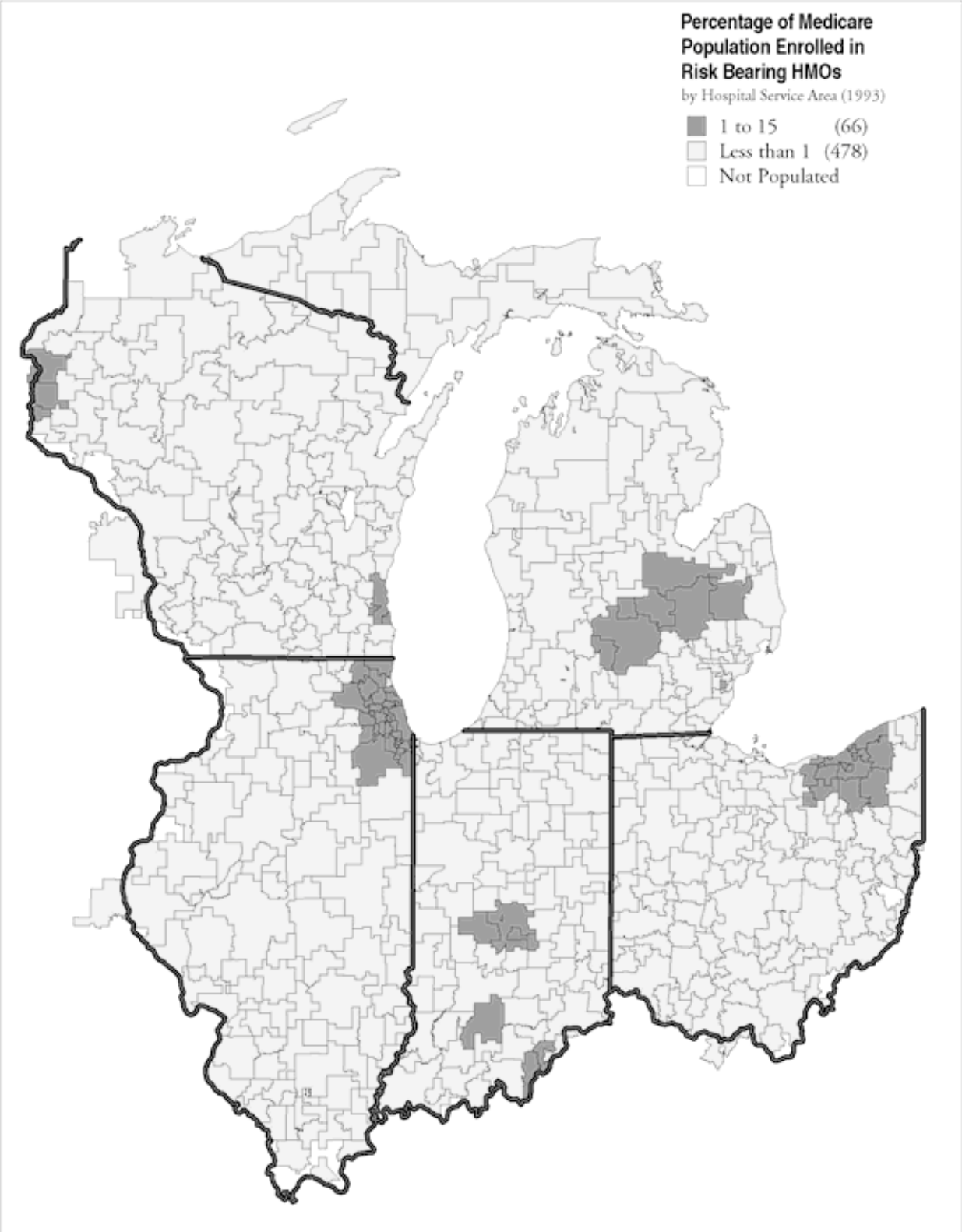
Figure 3.5. The Adjusted Average per Capita Cost in Hospital Service Areas in the Great Lakes States (1996)
The AAPCC in the Great Lakes States varied by a factor of more than 2.7. Each point represents one hospital service area.



Medicare Enrollment in Capitated Managed Care Plans

Since the early 1970s, Medicare beneficiaries have been offered the option of joining risk bearing, or capitated, health maintenance organizations. Under the capitation plan, the federal government pays health maintenance organizations a fixed annual amount per enrollee. In exchange, the health maintenance organization must provide all required services. If the total costs of care exceed the amount the government pays, then the health maintenance organization must absorb the loss; if they are less, then the health maintenance organization may retain the difference.

In 1993, about 1.6 million, or 5.2%, of all Medicare enrollees were covered by risk bearing health maintenance organizations, but enrollment was geographically very uneven across the United States. Enrollment of Medicare beneficiaries in the Great Lakes States was also highly variable. Medicare enrollees in the Chicago area were more likely to be members of health maintenance organizations than Medicare residents of other parts of the Illinois; in Skokie (13.0%); Elk Grove Village (11.5%); Oak Lawn (10.9%) and Hoffman Estates (10.4%) the percentage was far above the national average. In most other parts of the region, enrollment in health maintenance organizations was substantially lower than the national average.

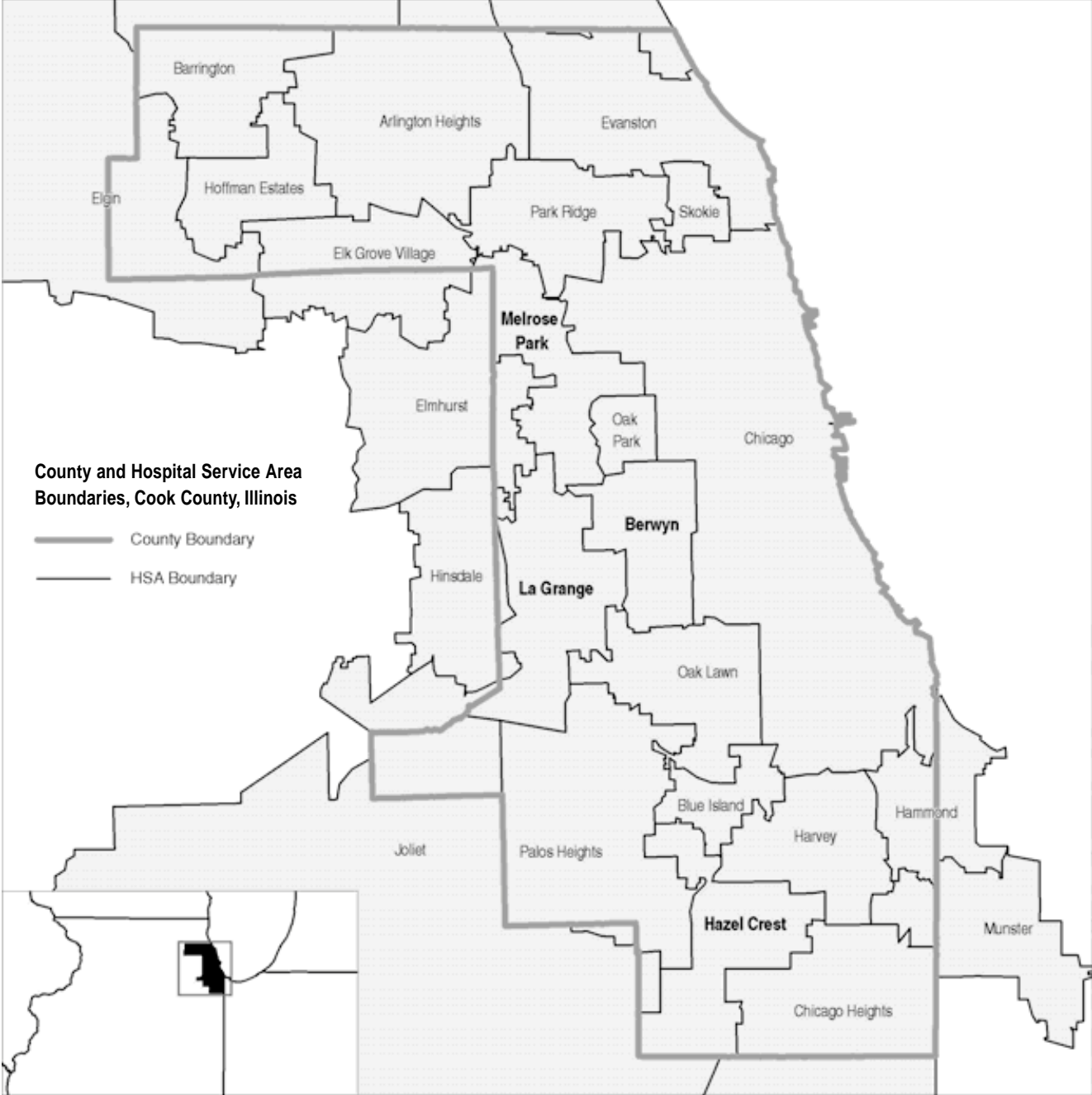


The Boundaries of Counties, Hospital Service Areas, and the AAPCC

As natural markets, hospital service areas commonly cross city limits and county boundaries, and sometimes even state lines. Some hospital service areas have component ZIP Codes in several different counties, and others are contained wholly within one county. Since the AAPCC is calculated on the basis of county-level utilization experience, its value represents the weighted average of costs of variable numbers of health care markets. For counties containing several hospital service areas, the AAPCC's value may not be closely related to the actual costs of providing care in a given area.

For example, in Illinois, the hospital service areas of Berwyn, La Grange, Melrose Park and Hazel Crest are all in Cook County, and therefore they have the same AAPCC. Yet Medicare reimbursements in these markets are quite different. In 1992-93, per capita reimbursements were \$3,505 for Medicare enrollees in Berwyn, \$3,560 for Medicare enrollees in La Grange, \$4,330 for enrollees in Melrose Park, and \$5,215 for those in Hazel Crest. Since the actual cost of care for residents in La Grange and Berwyn is below the value of the AAPCC, managed care organizations might have a strong incentive to target these communities, thus increasing Medicare reimbursements there toward the county average. If health maintenance organizations avoided communities like Hazel Crest (where costs exceed the AAPCC), the net effect would be an accelerated increase in overall Medicare costs.

Map 3.7 shows the boundaries of Cook County, Illinois, and its constituent hospital service areas. Note that some hospital service areas cross county lines, so the AAPCC for these hospital service areas is a weighted average of the AAPCC for the constituent counties.



Benchmarking: Total Medicare Reimbursements

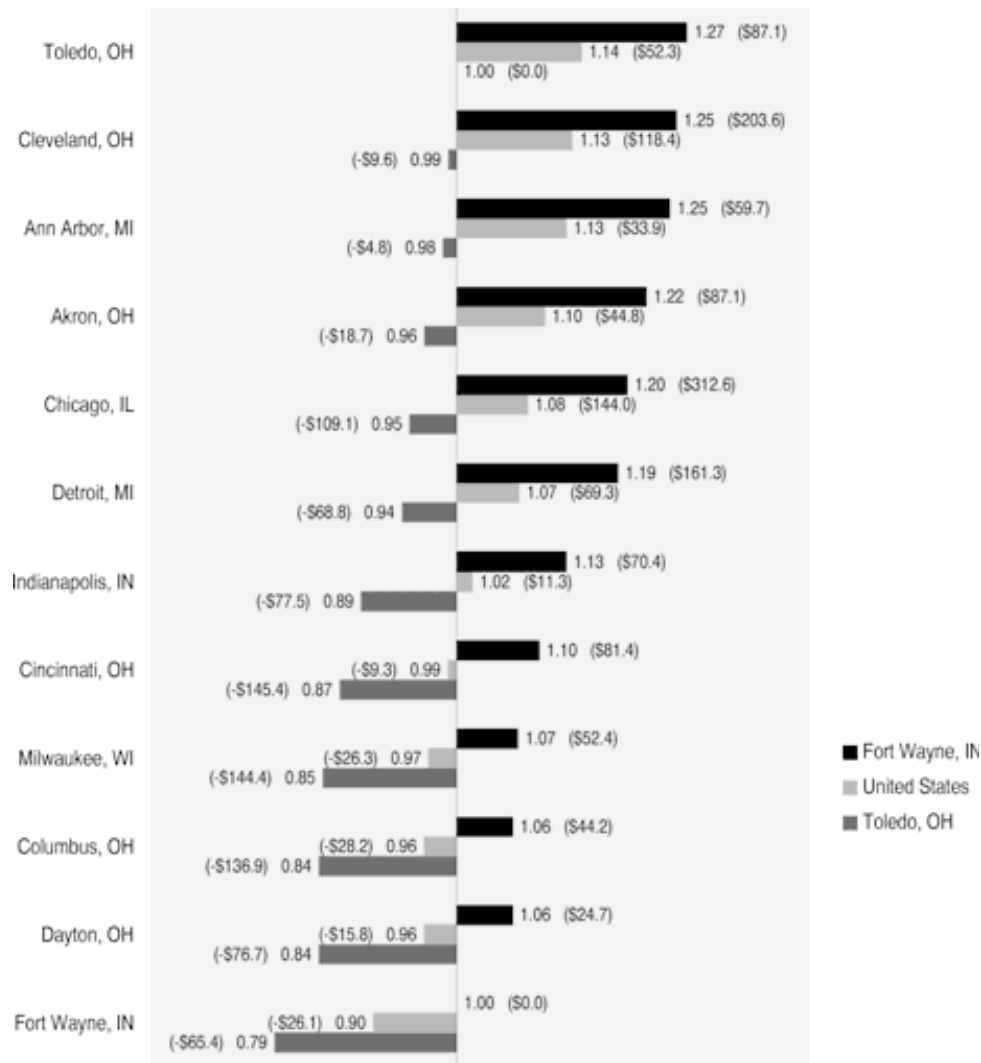


Figure 3.6. Price Adjusted Total Reimbursements per Medicare Enrollee in Selected Hospital Service Areas in the Great Lakes States Compared to Highest and Lowest Selected Areas (1992-93)

The figure gives the ratios of total Medicare reimbursements per enrollee in selected areas to the highest and lowest ranked areas. It also compares each area to the U.S. average. The number of dollars above (+) or below (-) the level of expenditures predicted by the experience in the benchmark areas for 1992-93 are in parentheses. For example, price adjusted total Medicare expenditures per enrollee in Toledo, Ohio were 1.27 times greater than for residents of Fort Wayne, Indiana. If the expenditure pattern for Fort Wayne in 1992-93 had prevailed, \$87.1 million less would have been spent for residents of Toledo.

Benchmarking: Total Medicare Reimbursements

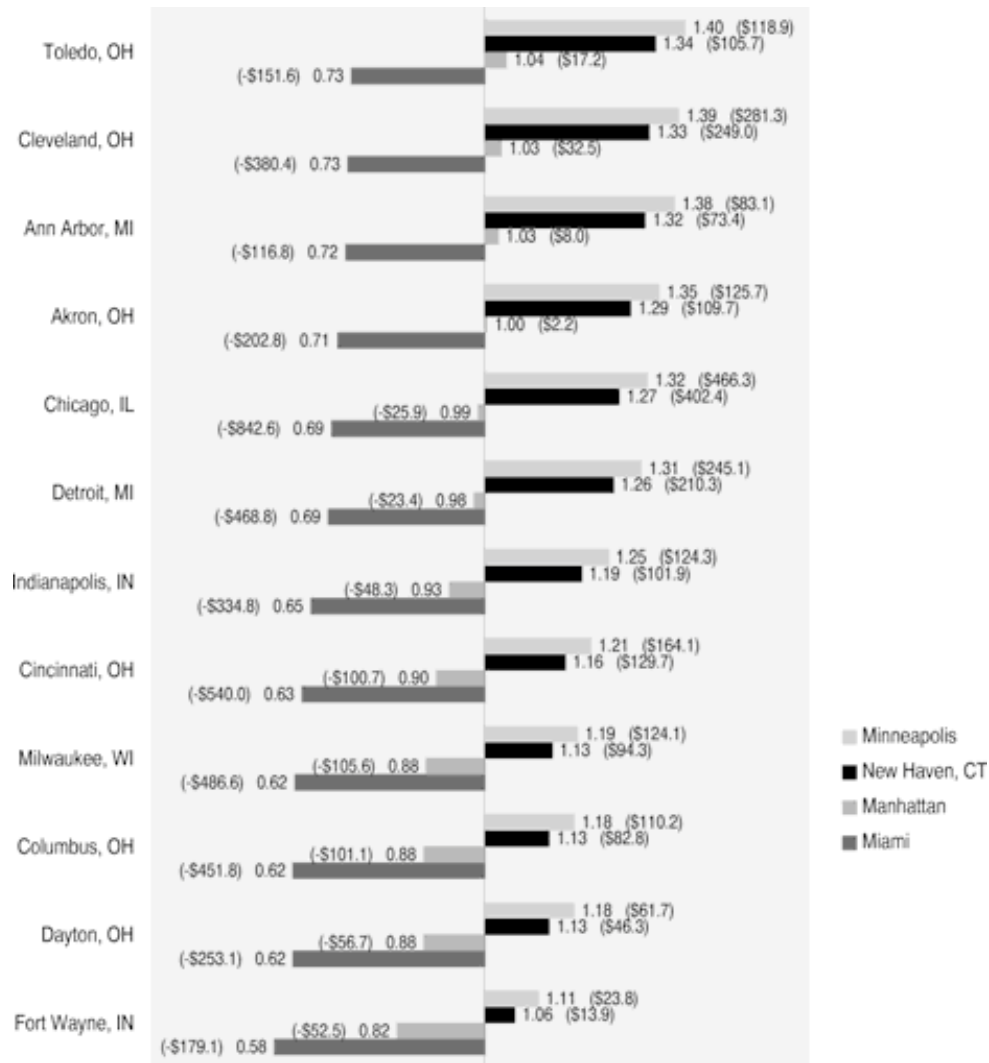


Figure 3.7. Price Adjusted Total Reimbursements per Medicare Enrollee in Selected Hospital Services Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. (1992-93)

The figure gives the ratios of total reimbursements in selected hospital service areas in the Great Lakes States to other areas. The numbers of dollars above (+) or below (-) the level of reimbursements predicted by the experience in the benchmark areas are in parentheses. For example, price adjusted total reimbursements per Medicare enrollee in Toledo, Ohio were 1.40 times greater than in Minneapolis. If the level of expenditures in Minneapolis in 1992-93 had prevailed in Toledo, \$118.9 million less would have been spent on Toledo residents. If the level of reimbursements in Miami had prevailed, \$151.6 million more would have been spent on residents of Toledo.

Benchmarking: Reimbursements for Professional and Laboratory Services

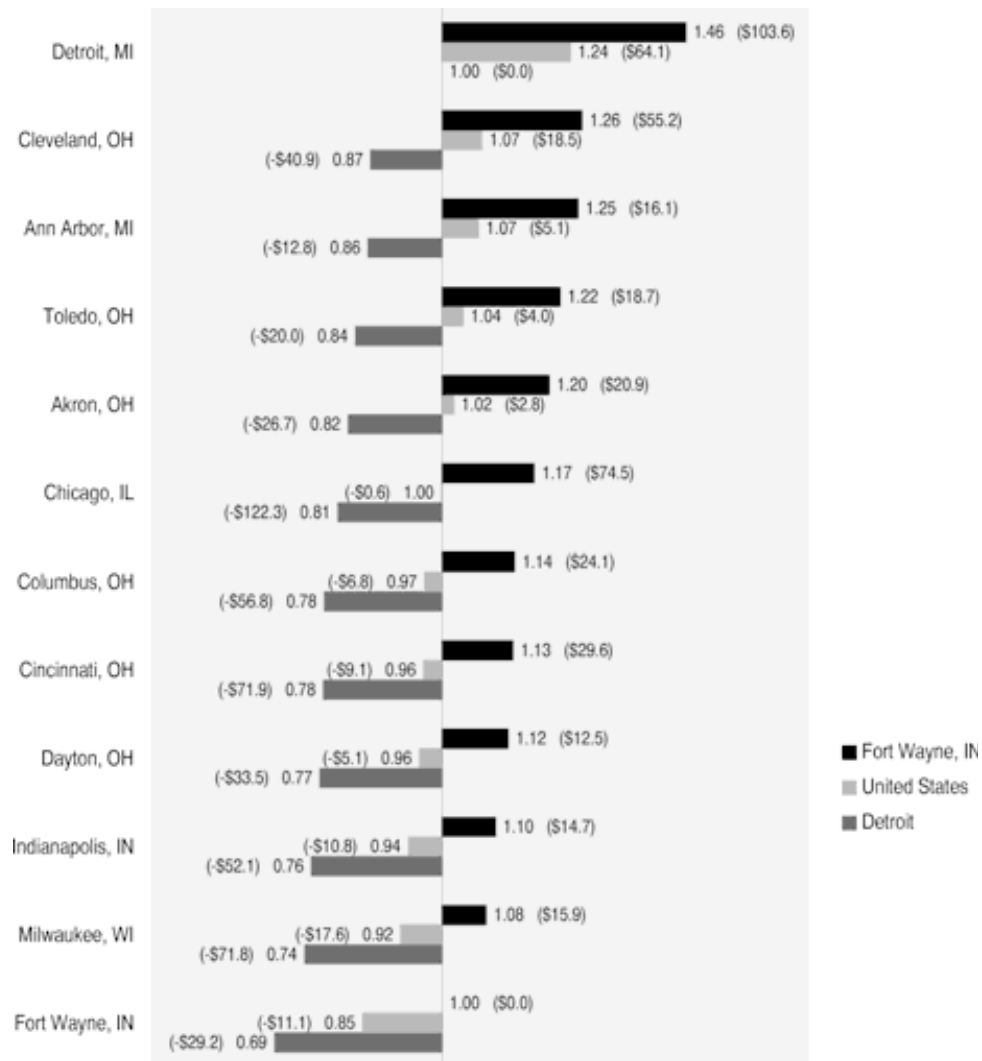


Figure 3.8. Price Adjusted Total Reimbursements for Professional and Laboratory Services per Medicare Enrollee in Selected Hospital Services Areas in the Great Lakes States Compared to Highest and Lowest Ranked Areas (1992-93)

The figure gives the ratios of reimbursements for professional and laboratory services in selected areas to the highest and lowest ranked areas. It also compares each area to the U.S. average. The numbers of dollars above (+) or below (-) the amount of reimbursements for professional and laboratory services predicted by the experience in the benchmark areas for 1992-93 are in parentheses. For example, price adjusted expenditures per enrollee in Detroit were 1.46 times greater than expenditures in Fort Wayne, Indiana. If the level of expenditures in Fort Wayne in 1992-93 had prevailed, \$103.6 million less would have been spent for Detroit residents.

Benchmarking: Reimbursements for Professional and Laboratory Services

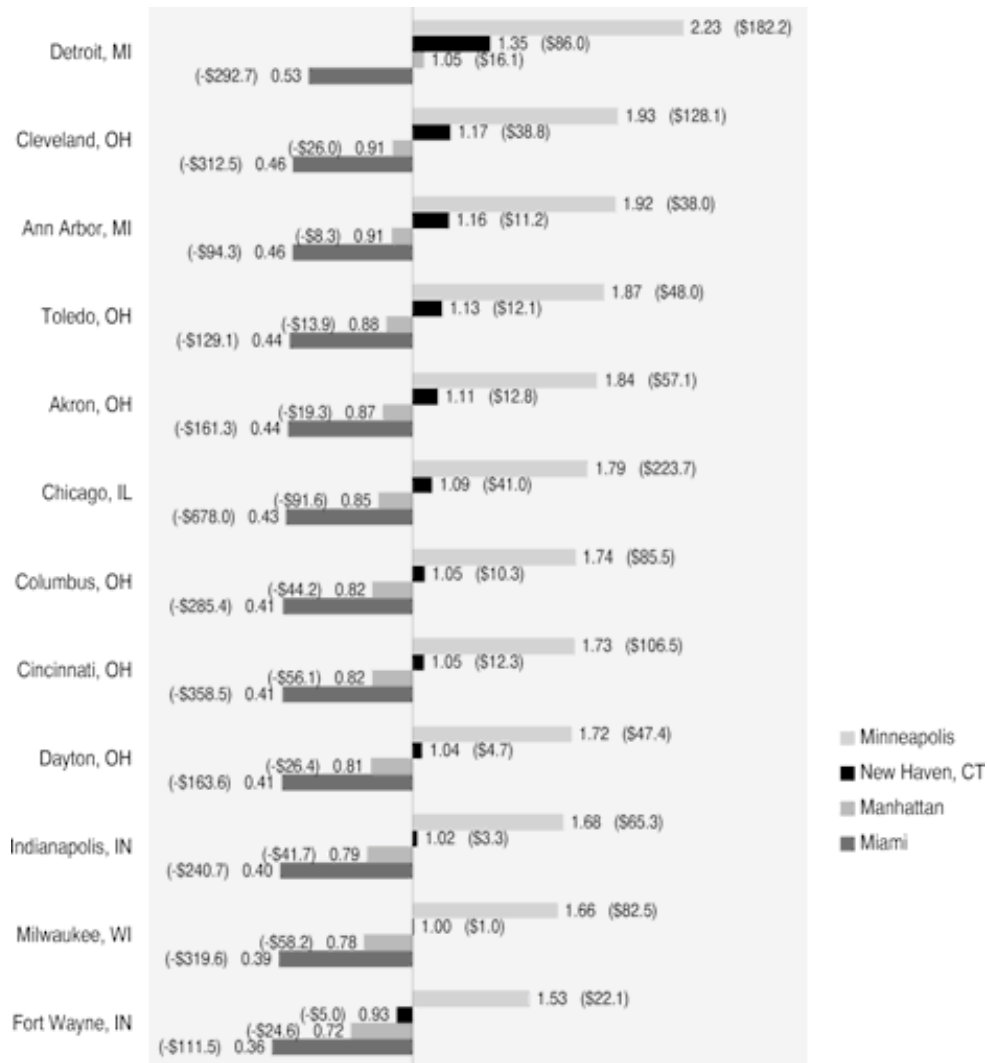


Figure 3.9. Price Adjusted Total Reimbursements for Professional and Laboratory Services per Medicare Enrollee in Selected Hospital Service Areas in the Great Lakes States Compared to the Selected Hospital Service Areas Elsewhere in the U.S. (1992-93)

The figure gives the ratio of total reimbursements for professional and laboratory services per Medicare enrollee in selected areas to other areas. The dollars above (+) or below (-) the amount predicted by the experience in the benchmark area for 1992-93 are in parentheses. For example, price adjusted professional and laboratory expenditures per Medicare enrollee in Detroit were 2.23 times higher than in expenditures in Minneapolis. If the level of expenditures in Minneapolis in 1992-93 had prevailed, \$182.2 million less would have been spent for Medicare residents of Detroit. If the level of reimbursements in Miami had prevailed, \$292.7 million more would have been spent on residents of Detroit.

Benchmarking: AAPCC

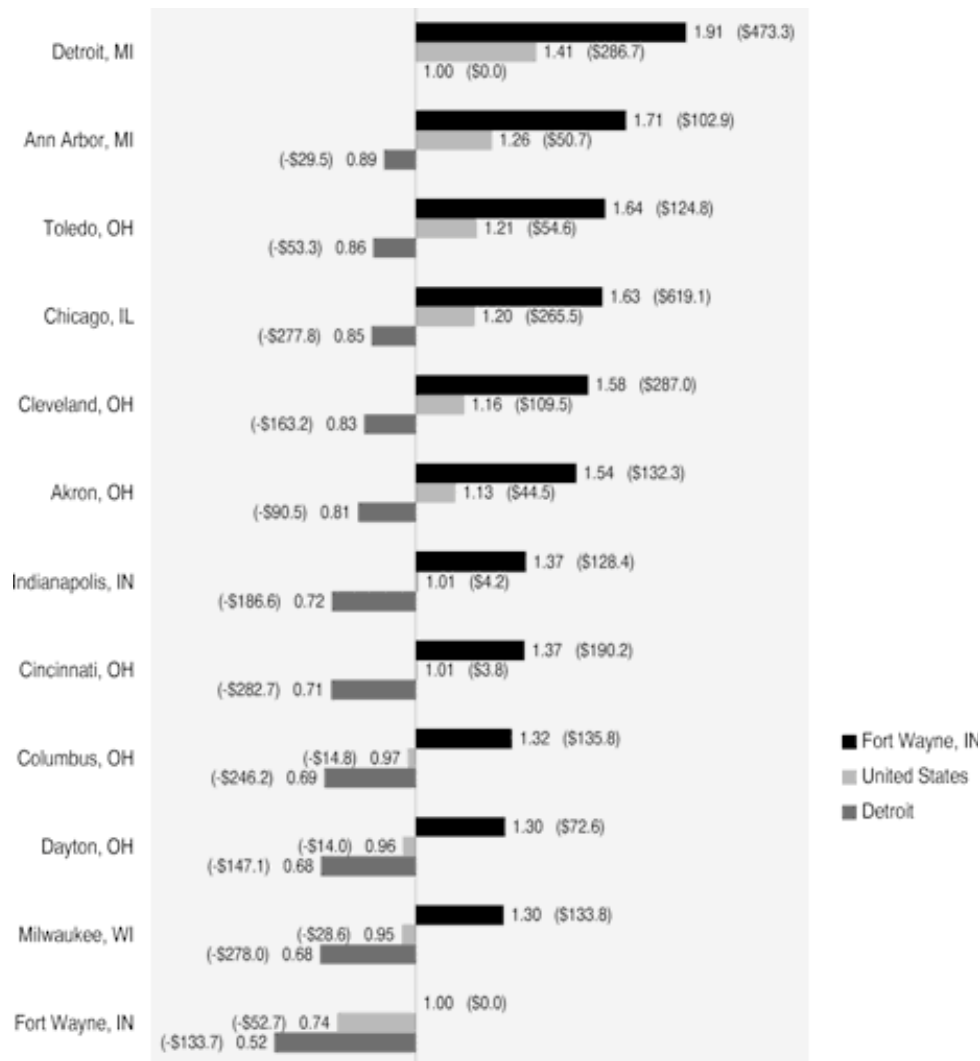


Figure 3.10. AAPCC in Selected Hospital Service Areas in the Great Lakes States Compared to the Highest and Lowest Ranked Selected Areas (1996). The AAPCC is Not Adjusted for Price Differences.

The figure gives the ratio of the AAPCC in selected areas to the highest and lowest ranked areas. It also compares each area to the U.S. average. The numbers of dollars above (+) or below (-) the amount predicted by the experience in the benchmark areas for 1996 are in parentheses. For example, the AAPCC in Detroit was 1.91 times greater than the AAPCC in Fort Wayne, Indiana. If the AAPCC in Fort Wayne in 1996 had prevailed, \$473.3 million less would have been spent for Detroit residents.

Benchmarking: AAPCC

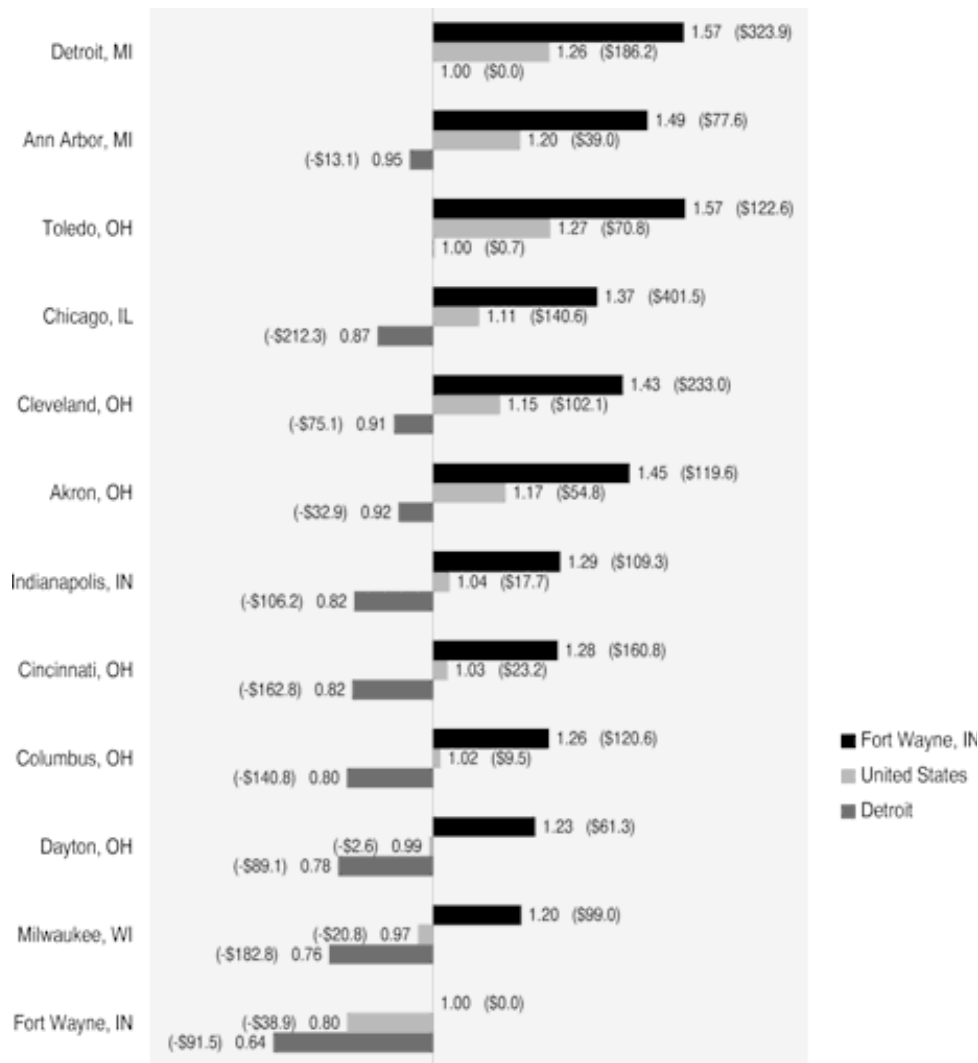


Figure 3.11. Price Adjusted AAPCC in Selected Hospital Service Areas in the Great Lakes States Compared to Highest and Lowest Ranked Areas (1996)

The figure gives the ratio of the price adjusted AAPCC in selected areas to the highest and lowest ranked areas. It also compares each area to the U.S. average. The numbers of dollars above (+) or below (-) the amount predicted by the experience in the benchmark areas for 1996 are in parentheses. For example, the price adjusted AAPCC in Toledo, Ohio was 1.57 times greater than the AAPCC in Fort Wayne, Indiana. If the price adjusted AAPCC in Fort Wayne in 1996 had prevailed, \$122.6 million less would have been spent for Toledo residents.

Benchmarking: AAPCC

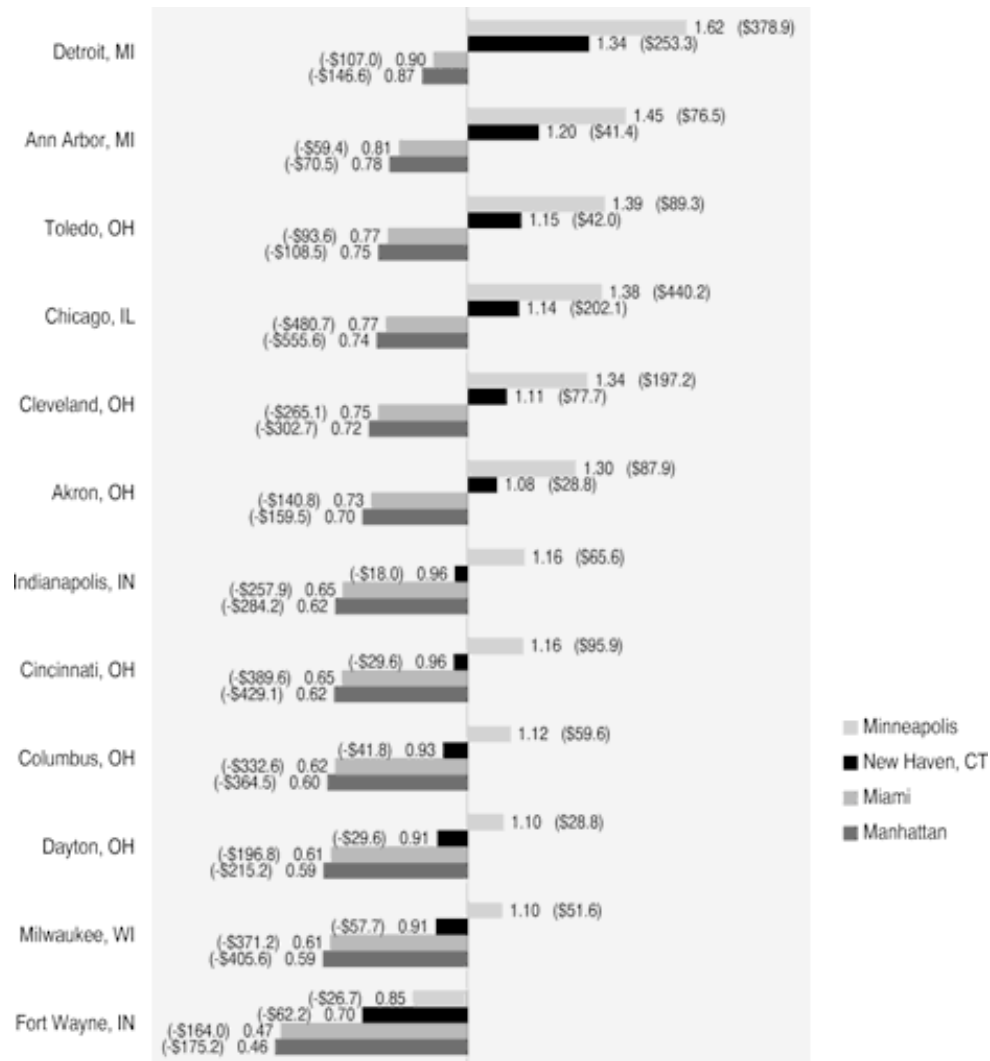


Figure 3.12. AAPCC in Selected Hospital Service Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. (1996). The AAPCC is Not Adjusted for Price Differences. The figure gives the ratio of the AAPCC in selected areas to other areas. The dollars above (+) or below (-) the amount predicted by the experience in the benchmark area for 1996 are in parentheses. For example, the AAPCC in Detroit was 1.62 times higher than the AAPCC in Minneapolis. If the AAPCC in Minneapolis in 1996 had prevailed, \$378.9 million less would have been spent for Medicare residents of Detroit. If the AAPCC in Manhattan had prevailed, \$146.6 million more would have been spent for residents of Detroit.

Benchmarking: AAPCC

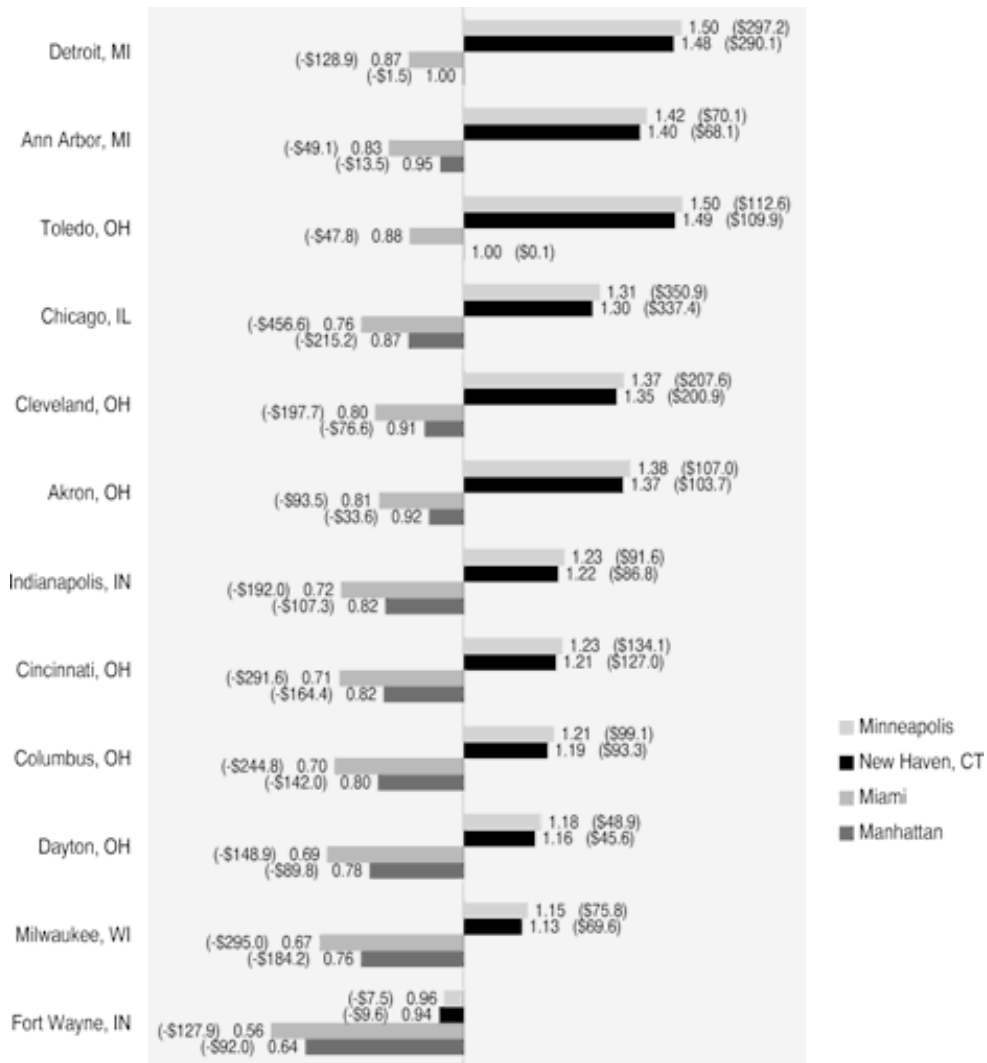


Figure 3.13. Price Adjusted AAPCC in Selected Hospital Service Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. (1996)

The figure gives the ratio of the price adjusted AAPCC in selected areas to other areas. The dollars above (+) or below (-) the amount predicted by the experience in the benchmark area for 1996 are in parentheses. For example, the price adjusted AAPCC in Toledo, Ohio was 1.50 times higher than the price adjusted AAPCC in Minneapolis. If the price adjusted AAPCC in Minneapolis in 1996 had prevailed, \$112.6 million less would have been spent for Medicare residents of Toledo. If the price adjusted AAPCC in Miami had prevailed, \$47.8 million more would have been spent in Toledo.

TABLE 3 The data are age, sex and race adjusted for Medicare enrollees who were not members of risk bearing health maintenance organizations on June 30, 1993. See Part Nine, section 4, of the national volume of the Dartmouth Atlas of Health Care for details on constructing rates and making price adjustments.

Data for three categories of expenditure — total expenditures, physician and laboratory services, and outpatient services — are based on a 5% sample of Medicare enrollees. To report average reimbursement rates in the figures and maps in Part Three with adequate statistical precision, we required that the sample size for a hospital service area (HSA) be large enough to ensure that the rate have a standard error of less than 10% of the national average. The minimum sample size varies according to category of expenditures, since a varying proportion of enrollees experience a claim, according to category. For total Medicare expenditures, the minimum sample size is 600 enrollees; since the estimate is based on a 5% sample, only HSAs with 12,000 enrollee person-years of experience are included in the figures and maps. For professional and laboratory services, the minimum is 6,720 person-years; for outpatient services it is 18,300. Rates for HSAs with less than the minimum population size are given in parentheses in Table 3. Rates for areas with fewer than 400 person-years (i.e., a sample of 10 or fewer) are omitted from the table.

Inpatient reimbursements are based on a complete enumeration (100% sample) for the years 1992-93. We omitted all areas with total census population of 3,500 or fewer from the figures and maps. The data for areas that fall below this minimum appear in parentheses in Table 3.

Data for HSAs with 10 or fewer counts are omitted from the table (the cell is blank).

The AAPCC is the Average Adjusted per Capita Cost. The data for the AAPCC are based on published federal rates. For hospital service areas that cross county boundaries, the rates are weighted averages. Price adjustments to the AAPCC were made according to the method described in Part Nine of the national volume of the Dartmouth Atlas of Health Care.

TABLE 3
**Medicare Reimbursements per Enrollee by Program Components (1992-93)
 and Adjusted Average Per Capita Cost (1996) for Hospital Service Areas**

Hospital Service Area	Resident Population	Medicare Enrollees (1992 plus 1993)	Price Adjusted Reim- bursements for All Services	Price Adjusted Reim- bursements for and Lab Services	Price Adjusted Reim- bursements for Professional Services	Price Adjusted Reim- bursements for Inpatient Hospital Services	Price Adjusted Reim- bursements for Outpatient Facilities	MAPCC (1996)	Price-Adjusted MAPCC (1996)
Illinois									
Aledo	11,174	3,582	(2,580)	(640)	1,867	(404)	4,211	5,253	
Alton	117,143	33,279	3,584	769	1,922	308	4,894	5,074	
Anna	18,825	6,529	(2,490)	(755)	1,557	(294)	3,301	4,118	
Arlington Heights	318,558	60,961	3,400	938	1,694	299	6,247	5,760	
Aurora	165,056	28,711	2,674	656	1,520	243	4,661	4,298	
Barrington	97,777	15,106	3,286	850	1,560	(339)	5,022	4,631	
Belleville	272,839	67,222	3,658	924	2,122	188	5,107	5,295	
Belvidere	35,662	8,846	(3,610)	989	1,729	(339)	4,307	4,728	
Benton	11,419	4,415	(3,298)	(773)	1,785	(253)	4,108	5,124	
Berwyn	197,083	59,890	3,253	896	1,984	174	6,342	5,848	
Bloomington	134,005	28,695	3,280	824	1,669	353	3,689	4,080	
Blue Island	56,815	12,288	4,754	1,209	1,983	(482)	6,342	5,848	
Breese	21,669	6,601	(4,241)	(1,012)	2,154	(322)	5,095	5,283	
Canton	27,043	10,088	(3,891)	974	2,383	(435)	4,582	5,715	
Carbondale	39,799	6,358	(3,984)	(920)	2,019	(228)	3,869	4,826	
Carlinville	10,878	4,382	(3,944)	(770)	2,442	(566)	4,436	5,534	
Carmi	8,234	3,678	(3,947)	(808)	1,975	(318)	3,620	4,516	
Carrollton	3,986	1,715	(3,020)	(612)	1,602	(303)	3,600	4,490	
Carthage	15,055	5,136	(2,620)	(646)	1,660	(352)	3,466	4,324	
Centralia	37,455	11,914	(6,307)	1,183	3,315	(506)	5,126	6,394	
Chester	17,285	4,897	(2,799)	(802)	1,820	(350)	4,005	4,995	
Chicago	2,680,712	512,650	3,949	974	2,228	286	6,342	5,848	
Chicago Heights	133,405	28,668	4,096	1,032	2,185	345	6,029	5,559	
Clinton	11,863	3,727	(3,320)	(663)	2,219	(422)	4,003	4,994	
Danville	94,296	29,226	3,168	812	1,810	320	3,938	4,912	
De Kalb	62,303	11,673	(2,692)	849	1,243	(201)	3,925	3,619	
Decatur	145,026	43,200	3,403	893	1,724	280	3,786	4,280	
Dixon	27,610	8,097	(3,513)	952	1,764	(271)	3,999	4,989	
Downers Grove	84,711	16,078	3,515	1,038	1,741	(279)	5,245	4,836	
Du Quoin	10,061	3,499	(3,362)	(703)	1,997	(322)	4,442	5,542	
Effingham	53,837	16,855	3,783	981	1,946	(294)	3,777	4,711	
Eldorado	13,693	5,049	(6,767)	(1,315)	2,056	(534)	4,011	5,003	
Elgin	246,641	38,069	3,204	843	1,669	303	5,046	4,653	
Elk Grove Village	122,151	19,421	3,398	979	1,776	312	5,864	5,407	
Elmhurst	212,505	48,315	3,467	907	1,711	288	5,440	5,016	
Eureka	7,478	2,447	(2,773)	(763)	1,706	(438)	3,794	4,148	
Evanston	212,335	55,060	3,473	917	1,800	363	6,342	5,848	
Fairfield	12,406	4,976	(3,133)	(813)	1,670	(348)	3,843	4,794	

Hospital Service Area	Resident Population	Medical Enrollees (1992 plus 1993)	Price Adjusted Reim- bursements for All Services	Price Adjusted Reim- bursements for Professional and Lab Services	Price Adjusted Reim- bursements for Inpatient Hospital Services	Price Adjusted Reim- bursements for Outpatient Facilities	MAPCC (1998)	Price Adjusted MAPCC (1998)
Flora	11,448	4,435	(2,923)	(845)	1,845	(334)	3,529	4,402
Freeport	61,763	21,246	2,935	769	1,748	303	3,598	4,488
Galesburg	68,895	23,433	3,702	945	2,056	316	3,984	4,970
Geneseo	17,128	5,643	(2,996)	(644)	1,531	(282)	3,944	4,315
Geneva	78,478	14,766	3,318	829	1,491	(231)	4,769	4,397
Gibson City	8,955	3,469	(2,646)	(675)	1,841	(263)	3,503	4,370
Glendale Heights	43,884	4,784	(4,431)	(1,141)	2,145	(195)	5,245	4,836
Granite City	57,812	15,374	3,551	782	2,257	(258)	4,952	5,135
Greenville	13,706	4,525	(2,447)	(516)	1,898	(274)	3,985	4,971
Harrisburg	20,509	7,285	(3,110)	864	1,696	(298)	3,957	4,936
Harvard	10,790	2,653	(2,459)	(806)	1,398	(140)	4,633	4,272
Harvey	127,326	26,143	4,068	1,009	2,052	299	6,342	5,848
Havana	7,680	2,693	(3,972)	(858)	2,854	(532)	4,608	5,748
Hazel Crest	110,480	22,010	4,836	1,201	2,153	452	6,342	5,848
Herrin	39,421	13,335	4,185	861	2,081	(255)	4,024	5,020
Highland	19,091	5,610	(4,142)	(704)	1,890	(321)	4,781	4,957
Highland Park	70,163	17,193	4,174	1,114	1,574	(435)	5,291	4,879
Hillsboro	21,015	7,362	(2,999)	626	1,920	(293)	3,891	4,854
Hinsdale	105,246	25,264	3,353	1,059	1,620	278	5,245	4,836
Hoffman Estates	97,044	9,686	(4,243)	1,107	1,826	(289)	6,342	5,848
Hoopeston	6,600	2,268	(1,540)	(492)	1,772	(221)	3,961	4,941
Hopedale	6,286	1,932	(4,104)	(911)	2,026	(337)	4,151	4,537
Jacksonville	51,703	16,245	3,417	809	2,133	(363)	3,842	4,792
Jerseyville	17,263	6,279	(3,151)	(712)	1,759	(343)	4,454	4,618
Joliet	297,781	56,507	3,527	996	1,929	235	5,648	5,208
Kankakee	109,091	29,421	4,387	1,013	2,438	369	5,406	6,179
Kewanee	18,512	7,455	(3,204)	695	1,750	(301)	3,995	4,370
La Grange	120,869	37,663	3,303	904	1,799	262	6,342	5,848
Lake Forest	34,810	6,608	(3,114)	(1,018)	1,468	(386)	5,129	4,729
Lawrenceville	13,426	5,795	(3,729)	(750)	2,138	(720)	3,826	4,772
Libertyville	108,060	16,505	3,751	1,023	1,756	(308)	5,129	4,729
Lincoln	22,539	6,547	(2,866)	(726)	2,022	(336)	3,676	4,585
Litchfield	23,405	8,189	(2,647)	534	2,059	(251)	4,213	5,256
Macomb	41,682	11,749	(2,888)	606	1,976	(301)	3,767	4,699
Marion	27,662	9,662	(3,626)	868	1,807	(339)	3,965	4,946
Maryville	74,867	19,327	3,089	803	1,844	203	4,952	5,135
Mattoon	69,630	19,725	3,283	799	1,642	335	3,666	4,573
Mchenry	80,690	16,748	3,525	863	1,741	(229)	4,757	4,386
Mcleansboro	9,552	3,706	(2,384)	(507)	1,933	(209)	3,658	4,563
Melrose Park	160,285	38,506	4,016	1,008	1,993	290	6,342	5,848
Mendota	21,209	7,082	(4,560)	970	1,918	(494)	4,041	5,041
Metropolis	14,736	4,619	(4,223)	(1,045)	1,980	(432)	4,242	5,292
Monmouth	17,759	6,234	(3,355)	(922)	1,902	(415)	3,761	4,692
Monticello	8,147	2,864	(3,546)	(876)	1,779	(738)	3,791	4,729
Morris	31,960	9,076	(3,354)	821	2,026	(339)	5,257	4,847
Mount Carmel	13,551	4,354	(3,416)	(711)	2,313	(343)	4,012	5,005
Mount Vernon	46,308	14,815	4,155	1,101	2,431	(367)	4,885	6,093

Hospital Service Area	Resident Population	Medicare Enrollees (1992 plus 1993)	Price Adjusted Reim- bursements for All Services	Price Adjusted Reim- bursements for Professional and Lab Services	Price Adjusted Reim- bursements for Inpatient Hospital Services	Price Adjusted Reim- bursements for Outpatient Facilities	MAPCC (1999)	Price-Adjusted MAPCC (1998)
Murphysboro	20,733	6,071	(3,650)	(806)	1,862	(438)	3,869	4,826
Naperville	151,644	18,112	3,540	919	1,821	(305)	5,308	4,894
Nashville	10,358	3,817	(4,958)	(1,024)	2,035	(348)	4,490	5,601
Oak Lawn	235,770	70,288	3,648	913	1,996	252	6,342	5,848
Oak Park	80,199	17,216	3,489	806	1,992	(251)	6,342	5,848
Olney	20,098	6,871	(2,389)	634	1,728	(314)	3,397	4,238
Ottawa	31,917	10,137	(3,219)	763	1,884	(372)	4,024	5,019
Palos Heights	141,604	32,472	3,940	1,035	1,863	288	6,342	5,848
Pana	8,320	3,222	(4,461)	(909)	1,949	(395)	4,781	5,964
Paris	14,177	5,630	(2,653)	(717)	1,837	(375)	3,396	4,236
Park Ridge	170,999	55,093	3,540	951	1,855	289	6,342	5,848
Pekin	55,126	15,618	3,341	904	1,867	(311)	4,233	4,627
Peoria	286,834	80,654	3,004	861	1,656	360	4,114	4,497
Peru	28,896	11,752	(3,952)	831	1,938	(259)	4,024	5,019
Pinckneyville	9,588	3,164	(3,544)	(604)	2,148	(283)	4,442	5,542
Pittsfield	13,642	5,419	(2,648)	(648)	2,194	(286)	3,816	4,760
Pontiac	29,416	9,001	(4,421)	860	2,201	(461)	4,429	5,525
Princeton	24,176	8,843	(3,592)	811	1,892	(371)	3,944	4,920
Quincy	89,858	31,049	2,940	762	1,775	270	4,092	5,105
Red Bud	21,433	6,821	(3,019)	821	2,195	(243)	4,191	5,228
Robinson	18,603	7,007	(2,872)	740	1,743	(325)	3,482	4,343
Rochelle	17,909	4,493	(2,946)	(779)	1,573	(315)	3,705	4,067
Rock Island	115,630	34,626	3,151	791	1,642	347	4,120	4,507
Rockford	285,530	74,329	2,795	831	1,506	267	3,854	4,231
Rosiclare	5,888	1,781	(4,082)	(879)	2,414	(410)	5,656	7,055
Rushville	8,309	3,319	(3,465)	(815)	1,904	(323)	3,759	4,689
Salem	15,949	5,083	(4,337)	(967)	2,542	(462)	5,515	6,880
Sandwich	16,546	4,209	(3,024)	(750)	1,535	(276)	3,991	3,680
Shelbyville	15,737	5,716	(4,661)	(979)	2,513	(306)	4,222	5,267
Silvis	50,832	13,379	3,647	753	1,803	(406)	4,101	4,486
Skokie	54,269	19,758	4,231	1,144	2,097	312	6,342	5,848
Sparta	11,195	3,361	(3,425)	(745)	2,150	(235)	4,099	5,114
Spring Valley	14,001	5,073	(4,698)	(948)	1,927	(585)	4,162	5,191
Springfield	229,063	65,483	3,848	915	1,996	298	4,815	5,127
Staunton	9,764	3,794	(3,883)	(789)	2,302	(418)	4,620	5,763
Sterling	53,374	16,402	4,179	1,103	2,083	(352)	3,993	4,981
Streator	38,382	13,773	3,342	774	2,080	(338)	4,048	5,049
Taylorville	21,109	7,459	(4,643)	1,440	2,583	(297)	4,812	6,003
Urbana	205,867	40,827	3,062	747	1,640	280	3,700	4,322
Vandalia	14,713	5,004	(4,121)	(883)	2,221	(349)	4,012	5,004
Watseka	21,442	8,089	(2,888)	828	1,976	(407)	4,007	4,999
Waukegan	208,959	33,478	3,385	873	1,679	288	5,129	4,729
West Frankfort	14,991	5,752	(4,263)	(889)	2,055	(539)	4,108	5,124
Winfield	173,873	28,142	3,274	871	1,507	240	5,245	4,836
Woodstock	23,376	5,705	(3,156)	(985)	1,493	(304)	4,633	4,272
Indiana								
Anderson	126,156	35,340	3,645	906	1,852	434	5,061	5,205

Hospital Service Area	Resident Population	Medical Enrollees (1992 plus 1993)	Price Adjusted Reim- bursements for All Services	Price Adjusted Reim- bursements for Professional and Lab Services	Price Adjusted Reim- bursements for Inpatient Hospital Services	Price Adjusted Reim- bursements for Outpatient Facilities	MAPCC (1998)	Price-Adjusted MAPCC (1998)
Angola	24,677	7,223	(3,525)	826	1,841	(361)	4,034	4,698
Auburn	35,564	9,055	(3,068)	606	1,455	(328)	3,582	3,920
Batesville	18,950	5,743	(3,399)	(777)	1,866	(403)	4,372	5,091
Bedford	52,039	14,247	3,485	747	1,935	(348)	4,483	5,219
Beech Grove	163,183	38,024	3,861	955	2,058	366	5,462	5,618
Bloomington	144,870	27,592	3,480	717	1,806	437	4,089	4,687
Bluffton	30,547	8,802	(2,598)	659	1,508	(361)	3,333	3,648
Boonville	13,342	3,928	(3,482)	(590)	2,246	(365)	4,381	4,822
Brazil	20,484	6,550	(2,724)	(646)	1,791	(333)	3,950	4,556
Bremen	13,324	2,419	(3,113)	(716)	1,390	(334)	3,454	4,021
Charlestown	12,901	2,751	(3,550)	(876)	2,092	(321)	5,107	5,440
Clinton	26,538	8,811	(2,819)	768	1,753	(255)	4,244	4,895
Columbia City	25,697	7,523	(3,306)	834	1,570	(473)	3,837	4,199
Columbus	73,199	16,656	4,122	883	1,926	(436)	4,511	5,252
Connersville	28,544	8,046	(4,587)	1,000	2,157	(719)	4,679	5,449
Corydon	33,456	8,149	(3,132)	714	1,778	(316)	4,396	4,683
Crawfordsville	36,620	10,424	(3,776)	759	2,196	(390)	4,744	5,524
Crown Point	74,348	16,867	4,557	1,067	2,064	(443)	5,816	6,029
Danville	54,074	11,465	(3,632)	940	1,884	(412)	5,005	5,148
Decatur	30,195	8,215	(2,476)	603	1,642	(300)	3,787	4,145
Dyer	32,364	6,019	(5,576)	(1,141)	2,228	(462)	5,998	6,216
East Chicago	33,775	8,676	(3,849)	877	2,607	(407)	5,998	6,216
Elkhart	103,903	24,521	2,869	624	1,623	294	3,575	3,871
Elwood	13,598	4,009	(3,306)	(794)	2,275	(468)	5,087	5,232
Evansville	261,319	76,883	3,290	777	1,748	298	4,310	4,744
Fort Wayne	322,307	74,784	3,300	831	1,612	261	3,891	4,258
Frankfort	24,958	7,750	(4,285)	576	2,107	(370)	4,018	4,725
Franklin	42,222	12,670	2,342	658	1,833	(240)	4,316	4,439
Gary	238,779	54,033	4,316	1,115	2,325	331	5,915	6,131
Goshen	78,345	17,325	2,901	732	1,404	(291)	3,615	3,914
Greencastle	27,351	7,137	(4,047)	1,062	1,989	(381)	4,469	5,204
Greenfield	50,949	11,494	(3,452)	780	1,848	(498)	4,655	4,787
Greensburg	19,250	5,155	(4,119)	(947)	1,703	(488)	4,513	5,255
Hammond	90,609	27,368	3,787	943	2,281	353	6,190	6,416
Hartford City	13,515	4,409	(3,233)	(729)	1,813	(257)	4,279	4,983
Huntingburg	25,304	6,079	(3,712)	(705)	1,648	(465)	4,051	4,717
Huntington	25,854	7,972	(2,788)	626	1,390	(424)	3,162	3,461
Indianapolis	813,184	173,420	3,717	914	1,867	367	5,338	5,490
Jasper	29,569	7,514	(3,805)	768	1,668	(552)	3,929	4,575
Jeffersonville	73,614	17,743	4,403	1,103	2,000	(391)	5,131	5,466
Kendallville	18,523	5,027	(2,736)	(539)	1,606	(355)	3,864	4,499
Knox	18,439	5,049	(4,245)	(799)	1,916	(570)	4,225	4,920
Kokomo	101,437	24,284	4,068	892	2,003	486	5,171	5,345
Lafayette	176,293	39,572	3,161	649	1,685	343	3,823	4,496
Lagrange	26,120	4,573	(2,307)	(500)	1,610	(257)	3,983	4,637
Laporte	54,617	14,038	4,050	809	1,986	(490)	4,891	5,695
Lawrenceburg	41,081	10,696	(3,535)	787	2,114	(269)	4,798	4,930

Hospital Service Area	Resident Population	Medicare Enrollees (1992 plus 1993)	Price Adjusted Reimbursements for All Services	Price Adjusted Reimbursements for Professional and Lab Services	Price Adjusted Reimbursements for Inpatient Hospital Services	Price Adjusted Reimbursements for Outpatient Facilities	MAPCC (1999)	Price Adjusted MAPCC (1999)
Lebanon	23,836	6,578	(4,574)	(895)	2,085	(506)	4,590	4,721
Linton	14,651	4,898	(3,678)	(823)	1,840	(405)	4,147	4,829
Logansport	33,171	10,642	(3,334)	666	1,626	(513)	4,220	4,914
Madison	48,242	12,499	3,804	862	2,132	(467)	4,792	5,579
Marion	80,147	21,731	3,587	865	1,961	409	4,323	5,034
Martinsville	34,988	7,475	(3,222)	700	2,137	(396)	4,700	4,835
Michigan City	64,754	16,476	4,220	1,057	1,997	(310)	4,874	5,675
Mishawaka	29,911	10,390	(3,388)	744	1,724	(370)	4,108	4,455
Monticello	17,391	5,888	(3,965)	(851)	2,053	(317)	4,315	5,024
Muncie	149,162	38,173	3,092	860	1,805	253	4,455	5,248
Munster	139,544	39,737	4,274	1,009	2,114	359	6,073	6,295
New Albany	71,408	17,843	4,183	1,001	2,079	(339)	4,879	5,198
New Castle	33,184	11,071	(3,362)	768	2,007	(336)	4,469	5,203
Noblesville	48,760	10,248	(4,065)	911	1,810	(519)	4,897	5,037
North Vernon	16,639	4,328	(3,074)	(643)	1,894	(433)	4,585	5,339
Paoli	12,467	3,851	(2,722)	(646)	1,763	(512)	4,135	4,815
Peru	29,252	6,899	(2,972)	622	2,051	(335)	4,710	5,484
Plymouth	23,540	7,870	(2,194)	545	1,395	(330)	3,454	4,021
Portland	16,513	4,937	(3,463)	(998)	1,822	(357)	3,996	4,653
Princeton	14,227	4,769	(3,686)	(751)	1,841	(496)	4,168	4,853
Rensselaer	14,832	4,308	(3,085)	(610)	1,885	(349)	4,847	5,644
Richmond	86,249	26,153	2,995	682	1,918	339	3,999	4,656
Rochester	21,139	6,520	(2,621)	(833)	1,666	(252)	4,001	4,658
Rushville	15,749	4,694	(4,818)	(975)	2,041	(314)	4,729	5,507
Salem	23,542	5,755	(3,172)	(685)	1,726	(272)	4,086	4,758
Scottsburg	19,827	4,603	(2,599)	(759)	1,692	(261)	4,798	5,111
Seymour	38,702	10,653	(4,064)	798	1,991	(467)	4,287	4,991
Shelbyville	31,150	8,196	(3,761)	834	2,076	(322)	4,836	4,974
South Bend	231,073	65,613	3,186	794	1,577	323	4,101	4,448
Sullivan	18,338	5,786	(4,966)	(892)	2,292	(460)	4,855	5,653
Tell City	19,133	5,772	(3,499)	(754)	1,591	(384)	4,149	4,831
Terre Haute	131,930	40,526	3,547	832	1,811	294	4,345	5,012
Tipton	13,546	4,273	(3,078)	(683)	1,839	(404)	5,158	5,332
Valparaiso	89,415	19,883	3,510	883	1,945	404	5,395	5,591
Vincennes	51,319	15,360	4,859	812	2,270	(510)	4,968	5,785
Wabash	32,515	9,696	(3,070)	765	1,325	(324)	3,224	3,754
Warsaw	48,340	11,640	(3,595)	844	1,693	(347)	3,624	4,220
Washington	27,272	8,041	(3,761)	637	1,697	(502)	4,206	4,897
Williamsport	6,548	1,496	(3,655)	(710)	1,898	(623)	3,907	4,549
Winamac	14,609	4,709	(2,784)	(722)	1,699	(336)	3,896	4,537
Winchester	8,830	3,008	(3,578)	(1,019)	2,005	(356)	4,082	4,753
Michigan								
Adrian	60,613	15,959	2,920	780	1,553	(404)	5,173	4,929
Albion	13,514	3,963	(3,362)	(922)	1,885	(317)	5,120	5,224
Allegan	22,512	5,534	(3,361)	(791)	1,582	(407)	4,462	4,553
Alma	55,067	12,334	3,051	829	1,829	(359)	4,483	5,044
Alpena	45,125	16,481	3,536	822	1,810	(416)	5,081	5,717

Hospital Service Area	Resident Population	Medical Enrollees (1992 plus 1993)	Price Adjusted Reim- bursements for All Services	Price Adjusted Reim- bursements for Professional and Lab Services	Price Adjusted Reim- bursements for Inpatient Hospital Services	Price Adjusted Reim- bursements for Outpatient Facilities	MAPCC (1998)	Price Adjusted MAPCC (1998)
Ann Arbor	460,644	73,448	4,111	1,042	1,941	428	6,652	6,338
Bad Axe	19,988	6,509	(3,202)	(833)	1,577	(431)	4,500	5,064
Battle Creek	110,090	28,816	3,690	911	2,044	328	5,114	5,217
Bay City	121,196	33,137	3,267	947	1,850	330	4,998	4,971
Berrien Center	2,324	433	(2,487)	(272)	(1,657)	(240)	4,691	5,075
Big Rapids	29,441	7,235	(3,352)	872	1,455	(513)	4,368	4,915
Cadillac	46,733	13,184	3,519	969	1,716	(413)	4,774	5,372
Caro	11,389	3,341	(2,942)	(724)	1,851	(337)	5,064	5,698
Carson City	17,396	3,418	(3,031)	(843)	1,971	(366)	4,657	5,240
Cass City	9,209	2,716	(4,031)	(991)	2,089	(412)	5,073	5,708
Charlevoix	15,126	5,030	(2,807)	(686)	1,588	(342)	4,263	4,797
Charlotte	24,486	4,816	(2,958)	(778)	1,848	(333)	5,299	5,270
Cheboygan	14,962	5,339	(3,745)	(886)	1,662	(377)	4,647	5,229
Chelsea	18,874	4,322	(2,907)	(852)	1,544	(553)	6,155	5,864
Clare	28,093	10,207	(3,781)	998	2,043	(682)	5,240	5,897
Coldwater	40,413	11,092	(2,686)	745	1,902	(383)	4,735	5,328
Crystal Falls	4,804	2,587	(2,106)	(505)	1,891	(202)	4,110	4,625
Dearborn	156,394	52,572	3,531	1,119	1,798	368	7,531	6,768
Deckerville	6,871	1,788	(4,390)	(1,100)	1,775	(415)	5,162	5,809
Detroit	1,177,213	268,634	3,914	1,209	2,082	354	7,442	6,688
Dowagiac	14,921	4,321	(2,856)	(694)	2,005	(216)	4,602	5,178
Escanaba	38,871	12,387	2,919	695	1,824	(369)	4,671	5,257
Farmington Hills	90,061	21,841	4,014	1,276	1,736	410	7,258	6,523
Flint	475,811	95,207	4,149	1,276	2,190	390	6,925	6,611
Frankfort	3,168	1,663	(2,927)	(544)	(1,930)	(335)	4,600	5,176
Fremont	23,544	6,963	(3,081)	679	1,633	(416)	4,549	5,119
Garden City	67,969	23,165	3,200	1,031	1,988	360	7,531	6,768
Gaylord	21,877	8,942	(3,204)	969	1,705	(308)	4,555	5,125
Gladwin	11,790	5,305	(4,059)	(1,011)	2,264	(338)	5,992	6,742
Grand Haven	42,500	10,734	(2,805)	573	1,290	(363)	3,743	3,819
Grand Rapids	652,385	142,104	2,793	764	1,469	257	4,309	4,397
Grayling	28,928	12,826	3,853	1,055	2,186	(447)	5,872	6,607
Greenville	13,153	4,053	(3,576)	(972)	1,837	(463)	4,876	5,486
Grosse Pointe	51,378	17,311	3,625	1,099	1,666	(348)	7,531	6,768
Hancock	23,539	6,542	(2,438)	(610)	1,455	(314)	3,816	4,294
Harbor Beach	5,536	2,480	(4,369)	(1,050)	1,520	(492)	4,500	5,064
Hastings	39,520	9,512	(3,005)	717	1,727	(421)	4,608	5,185
Hillsdale	34,346	9,221	(3,866)	890	1,827	(509)	4,735	5,328
Holland	88,225	20,711	2,363	761	1,312	203	4,248	4,335
Howell	41,178	8,245	(4,291)	995	1,853	(236)	5,983	5,701
Ionia	22,975	4,192	(3,394)	(805)	1,629	(416)	4,864	5,473
Iron Mountain	39,647	14,244	2,977	687	1,528	(257)	3,971	4,469
Iron River	8,921	4,686	(2,766)	(600)	1,716	(314)	4,068	4,577
Ironwood	22,405	10,449	(3,166)	615	1,383	(335)	3,784	4,258
Ishpeming	11,725	4,059	(3,552)	(755)	2,000	(365)	5,894	6,633
Jackson	155,656	39,348	3,392	965	1,745	348	5,049	5,076
Kalamazoo	274,951	61,468	3,322	851	1,742	288	4,700	4,795

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Lakeview	6,000	1,196	(5,540)	(1,097)	1,773	(341)	4,876	5,486
L'Anse	9,894	4,062	(2,939)	(645)	1,813	(263)	4,353	4,898
Lansing	403,887	66,431	3,382	916	1,819	235	5,509	5,479
Lapeer	74,527	13,664	3,434	1,017	1,786	(353)	5,877	5,282
Laurium	12,722	6,186	(3,295)	(724)	1,734	(220)	3,906	4,396
Livonia	170,245	49,348	3,522	1,137	1,790	339	7,531	6,768
Ludington	25,989	10,160	(2,978)	774	1,481	(394)	4,637	5,218
Madison Heights	52,414	12,569	4,019	1,222	2,162	(273)	7,166	6,441
Manistee	20,195	7,608	(3,109)	706	1,917	(367)	4,934	5,552
Manistique	9,668	3,871	(4,166)	(703)	1,750	(380)	5,083	5,720
Marlette	7,277	1,971	(3,900)	(924)	1,908	(728)	5,392	6,067
Marquette	64,716	13,892	4,003	807	1,936	(439)	5,798	6,524
Marshall	22,525	5,523	(3,212)	(848)	1,665	(499)	5,120	5,224
Midland	73,291	18,912	3,252	821	1,767	446	5,354	5,324
Milford	84,255	13,001	3,708	1,131	1,954	(391)	7,166	6,441
Monroe	83,568	19,246	3,614	1,050	1,823	367	6,110	5,492
Mount Clemens	316,640	66,251	3,768	1,265	1,846	331	6,895	6,197
Mount Pleasant	41,455	7,689	(3,955)	1,053	1,695	(409)	4,380	4,928
Munising	5,066	2,052	(3,508)	(574)	1,725	(312)	5,176	5,824
Muskegon	172,932	46,861	2,727	749	1,428	337	4,398	4,488
Newberry	7,521	3,270	(3,421)	(762)	1,907	(623)	4,795	5,396
Niles	55,328	16,231	3,023	669	1,744	(310)	4,677	5,060
Northport	1,663	810	(2,792)	(591)	(1,577)	(414)	4,433	4,988
Ontonagon	5,090	1,745	(2,182)	(662)	2,004	(246)	4,357	4,903
Owosso	61,109	14,592	3,490	951	2,101	(380)	5,394	6,070
Paw Paw	28,738	6,868	(3,439)	812	1,828	(211)	4,742	4,838
Petoskey	62,514	20,585	3,123	803	1,671	350	4,529	5,096
Pigeon	6,523	3,467	(3,467)	(896)	1,782	(558)	4,500	5,064
Pontiac	306,985	53,978	4,086	1,245	2,033	330	7,166	6,441
Port Huron	125,397	34,650	2,825	894	1,662	245	5,483	4,928
Reed City	16,909	7,033	(2,329)	679	1,635	(302)	4,679	5,265
Rochester	100,554	17,737	3,805	1,201	1,780	(382)	7,131	6,408
Royal Oak	335,803	92,724	3,680	1,209	1,795	360	7,166	6,441
Saginaw	229,761	55,377	3,662	955	1,848	312	5,055	5,027
Saline	13,356	2,248	(2,150)	(667)	1,595	(313)	6,268	5,972
Sandusky	6,499	2,279	(3,786)	(970)	1,741	(405)	5,162	5,809
Sault Ste Marie	34,126	8,583	(3,936)	851	1,714	(364)	4,692	5,280
South Haven	23,447	6,422	(2,679)	(769)	1,763	(321)	4,541	4,633
Southfield	51,405	17,411	4,047	1,313	1,903	(362)	7,166	6,441
St Clair	27,663	7,851	(2,747)	945	1,652	(250)	5,556	4,993
St Johns	16,472	3,447	(2,400)	(834)	1,399	(311)	5,094	5,066
St Joseph	106,962	28,285	3,251	914	1,652	339	4,691	5,075
Standish	11,090	3,267	(3,528)	(941)	2,247	(352)	5,369	6,042
Sturgis	25,950	7,068	(2,801)	672	1,745	(333)	4,294	4,831
Tawas City	33,553	14,011	3,529	901	2,008	(324)	5,141	5,785
Taylor	70,811	11,224	(3,947)	1,201	2,335	(468)	7,531	6,768
Tecumseh	22,916	5,141	(4,145)	(994)	1,657	(503)	5,184	4,940

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Three Rivers	32,083	7,790	(2,999)	659	1,673	(234)	4,306	4,846
Traverse City	123,554	37,566	3,157	817	1,740	366	4,556	5,127
Trenton	82,444	16,001	3,716	1,185	1,817	(529)	7,488	6,729
Troy	110,595	18,153	4,051	1,295	1,873	(427)	7,053	6,339
Warren	238,759	72,008	3,910	1,288	1,980	308	6,937	6,235
Watervliet	13,163	3,563	(3,277)	(871)	1,879	(366)	4,719	5,105
Wayne	159,077	34,091	4,071	1,294	2,091	453	7,531	6,768
West Branch	29,742	12,278	3,524	1,137	2,169	(350)	5,364	6,036
Wyandotte	146,521	40,653	3,859	1,234	1,966	369	7,531	6,768
Zeeland	15,649	3,547	(1,939)	(633)	1,324	(268)	3,743	3,819
Ohio								
Akron	448,050	124,914	4,021	997	2,228	369	6,000	6,164
Alliance	49,003	16,303	3,273	1,002	1,696	(276)	4,678	5,186
Ashland	39,737	10,581	(3,227)	870	1,614	(429)	3,691	4,311
Ashtabula	51,352	15,363	3,607	964	1,905	(398)	5,284	5,233
Athens	44,152	7,297	(3,692)	715	1,896	(340)	4,433	5,177
Barberton	58,441	17,633	3,794	897	2,328	(307)	5,819	5,979
Barnesville	22,508	7,304	(3,349)	735	2,145	(336)	4,719	5,660
Batavia	42,809	10,681	(4,022)	988	2,094	(356)	5,197	5,340
Bedford	33,014	10,255	(3,585)	952	2,136	(248)	6,194	6,135
Bellaire	22,777	8,821	(3,258)	547	2,309	(297)	5,005	6,003
Bellefontaine	44,148	12,490	3,289	782	2,104	(329)	4,825	5,634
Bellevue	24,011	6,002	(3,872)	(900)	2,108	(468)	4,718	5,510
Bluffton	8,081	2,646	(2,936)	(662)	1,518	(318)	4,239	4,944
Bowling Green	58,997	11,188	(3,168)	814	1,774	(284)	5,099	5,357
Bryan	41,316	11,178	(3,642)	842	1,969	(315)	4,345	5,074
Bucyrus	21,211	6,373	(3,100)	(712)	1,705	(354)	4,422	5,037
Cadiz	10,563	3,907	(4,189)	(1,111)	1,972	(623)	4,310	5,034
Cambridge	53,895	15,927	2,989	781	2,021	(231)	4,472	5,223
Canton	268,826	81,317	3,515	1,020	1,789	289	4,449	4,933
Chardon	50,047	9,828	(3,837)	1,049	1,848	(334)	5,081	5,033
Chillicothe	74,261	17,993	3,657	708	2,143	(258)	4,166	4,865
Cincinnati	1,102,793	265,087	3,614	941	1,899	411	5,319	5,465
Circleville	21,875	5,631	(3,497)	(837)	1,631	(382)	4,628	4,831
Cleveland	953,736	254,305	4,136	1,048	2,180	366	6,154	6,096
Coldwater	37,723	10,437	(3,833)	933	1,827	(367)	4,314	5,038
Columbus	1,108,432	212,938	3,514	943	1,972	290	5,153	5,379
Conneaut	18,072	5,669	(3,161)	(820)	1,648	(383)	5,284	5,233
Coshocton	32,878	9,625	(3,130)	758	1,990	(277)	4,265	4,980
Dayton	534,433	122,965	3,513	934	1,975	301	5,064	5,248
Defiance	37,492	8,862	(2,940)	800	1,926	(336)	4,277	4,995
Delaware	36,873	7,894	(3,858)	845	1,746	(338)	4,475	4,671
Dennison	18,574	5,140	(2,596)	(585)	1,797	(319)	3,822	4,463
Dover	53,598	16,969	3,130	722	1,692	(274)	3,809	4,448
East Liverpool	48,817	15,174	3,941	1,015	2,325	(355)	5,071	5,632
Elyria	105,467	22,955	3,747	1,068	1,819	312	5,459	5,407
Euclid	61,147	24,757	4,062	1,110	1,979	364	6,194	6,135

Hospital Service Area	Resident Population	Medicare Enrollees (1992 plus 1993)	Price Adjusted Reimbursements for All Services	Price Adjusted Reimbursements for Professional and Lab Services	Price Adjusted Reimbursements for Inpatient Hospital Services	Price Adjusted Reimbursements for Outpatient Facilities	MAPCC (1999)	Price Adjusted MAPCC (1999)
Findlay	69,747	17,625	2,705	729	1,704	(230)	3,693	4,312
Fostoria	22,243	6,278	(3,573)	(857)	2,064	(530)	4,748	5,544
Fremont	43,779	12,058	4,453	1,099	1,984	(588)	4,719	5,511
Galion	25,792	7,583	(2,654)	592	2,082	(364)	4,422	5,037
Gallipolis	68,718	17,919	3,786	943	2,173	(281)	4,386	5,122
Garfield Heights	57,965	21,694	3,800	1,044	2,348	341	6,194	6,135
Geneva	17,673	4,520	(3,798)	(1,285)	2,021	(538)	5,284	5,233
Georgetown	24,440	6,519	(4,261)	(1,028)	1,832	(544)	4,862	4,996
Greenfield	9,107	2,625	(3,818)	(818)	2,055	(484)	4,285	5,005
Greenville	43,145	12,897	3,133	827	1,634	(371)	3,798	4,435
Hamilton	149,045	33,738	3,350	946	1,807	359	4,896	5,185
Hicksville	6,504	1,680	(3,912)	(891)	1,608	(1,010)	4,234	4,944
Hillsboro	19,825	6,304	(3,744)	(892)	1,956	(365)	4,295	5,015
Ironton	29,285	8,558	(4,305)	1,221	2,526	(366)	4,876	5,524
Kenton	22,059	6,031	(2,795)	(556)	1,986	(335)	4,112	4,802
Kettering	199,811	53,169	3,304	945	1,723	264	5,106	5,292
Lakewood	59,702	14,596	3,980	1,023	2,250	(403)	6,194	6,135
Lancaster	74,606	19,507	2,937	690	1,877	342	4,615	4,818
Lima	176,674	46,045	3,026	798	1,758	279	4,275	4,986
Lodi	8,567	1,924	(3,993)	(870)	1,967	(233)	5,350	5,299
Logan	20,448	5,407	(3,884)	(724)	2,241	(405)	5,059	5,908
London	19,971	3,693	(3,014)	(696)	2,122	(216)	5,423	5,661
Lorain	135,692	34,940	3,882	1,022	2,025	310	5,459	5,407
Loudonville	4,767	1,668	(2,915)	(884)	1,636	(252)	3,691	4,311
Mansfield	115,010	29,589	2,901	814	1,719	316	4,117	4,690
Marietta	60,139	16,036	4,276	869	2,049	(566)	4,657	5,365
Marion	72,421	19,377	2,978	578	2,003	338	4,830	5,641
Martins Ferry	25,724	10,173	(4,540)	805	2,297	(396)	5,237	6,280
Marysville	23,385	5,018	(3,839)	(841)	2,223	(385)	5,009	5,849
Massillon	100,327	25,525	3,427	989	1,782	333	4,446	4,929
Maumee	79,703	17,290	3,984	998	2,219	(412)	5,997	6,300
Mayfield Heights	61,824	26,345	3,885	1,125	1,895	356	6,007	5,950
Medina	50,462	10,478	(4,407)	969	1,990	(429)	5,350	5,299
Middletown	107,263	25,598	3,695	949	1,963	321	4,878	5,167
Millersburg	30,452	4,761	(3,713)	(776)	1,357	(456)	2,709	3,163
Mount Gilead	14,644	3,691	(3,213)	(641)	1,759	(307)	4,026	4,702
Mount Vernon	55,113	15,504	3,707	844	2,074	(448)	4,413	5,153
Napoleon	19,250	4,965	(3,434)	(764)	1,984	(506)	4,476	5,227
Nelsonville	15,150	4,117	(3,692)	(699)	1,926	(232)	4,454	5,202
Newark	97,767	24,730	3,275	927	1,659	309	4,265	4,452
Norwalk	41,332	10,040	(3,240)	778	2,025	(342)	4,548	5,311
Oberlin	21,501	5,215	(3,478)	(840)	1,428	(309)	5,459	5,407
Oregon	88,211	21,831	4,669	1,133	2,435	428	5,956	6,257
Orrville	13,821	3,386	(2,546)	(692)	1,523	(309)	3,924	4,582
Oxford	44,301	7,449	(2,857)	666	1,798	(443)	4,604	4,876
Painesville	195,446	46,667	3,561	931	1,887	314	5,377	5,326
Parma/Middleburg Hts	280,489	78,234	3,973	1,072	1,964	342	6,138	6,080

Hospital Service Area	Resident Population	Medical Enrollees (1992 plus 1993)	Price Adjusted Reim- bursements for All Services	Price Adjusted Reim- bursements for Professional and Lab Services	Price Adjusted Reim- bursements for Inpatient Hospital Services	Price Adjusted Reim- bursements for Outpatient Facilities	MAPCC (1998)	Price-Adjusted MAPCC (1998)
Paulding	13,897	3,540	(3,142)	(663)	1,893	(312)	4,304	5,027
Piqua	45,920	12,025	2,963	847	1,704	(317)	4,830	5,005
Pomeroy	13,676	3,771	(3,258)	(778)	1,838	(439)	4,297	5,018
Port Clinton	26,825	8,970	(4,498)	1,085	2,276	(480)	5,346	6,243
Portsmouth	97,331	27,675	3,433	840	2,161	391	4,585	5,355
Ravenna	123,332	23,104	3,501	844	2,173	346	5,593	5,746
Salem	70,225	21,043	3,670	1,033	1,883	310	4,811	5,343
Sandusky	67,299	19,238	3,936	986	2,253	516	5,446	6,360
Shelby	16,207	4,589	(3,086)	(763)	1,651	(407)	4,147	4,725
Sidney	36,536	8,700	(3,468)	878	1,919	(288)	4,462	5,211
Springfield	124,437	35,849	3,258	814	1,904	324	5,020	5,203
St Marys	26,598	7,653	(5,610)	1,062	2,237	(458)	4,556	5,315
Steubenville	68,262	22,759	4,322	972	2,357	493	5,612	6,555
Sylvania	39,492	9,798	(3,810)	1,055	2,020	(416)	6,044	6,349
Tiffin	36,226	10,771	(4,264)	966	2,166	(407)	4,710	5,500
Toledo	382,633	100,285	4,175	1,014	2,439	431	6,379	6,702
Troy	50,113	12,227	3,148	815	1,597	(285)	4,904	5,083
Upper Sandusky	12,766	4,166	(2,941)	(663)	1,685	(309)	3,817	4,458
Urbana	28,018	6,989	(3,390)	809	1,745	(366)	4,432	5,175
Van Wert	31,165	8,927	(2,450)	599	1,449	(264)	3,718	4,342
Wadsworth	38,426	10,243	(3,064)	734	1,854	(280)	5,022	4,974
Warren	181,045	51,556	4,411	1,162	2,504	483	5,902	6,555
Washington Ct House	25,359	7,222	(3,169)	665	1,816	(531)	3,962	4,627
Wauseon	31,811	8,011	(2,989)	810	1,723	(414)	4,807	5,050
Waverly	21,717	6,110	(3,507)	(906)	1,978	(447)	4,184	4,887
West Union	22,044	5,373	(4,807)	(840)	2,074	(661)	4,382	5,117
Westlake	51,431	14,677	3,496	975	1,865	(328)	6,099	6,041
Willard	18,070	3,908	(4,714)	(842)	1,873	(380)	4,582	5,351
Wilmington	44,156	11,671	(3,639)	830	2,285	(393)	4,580	5,349
Wooster	67,900	15,771	3,303	799	1,713	(248)	3,919	4,577
Xenia	53,694	11,771	(3,081)	790	1,559	(337)	4,303	4,460
Youngstown	302,953	105,322	4,140	1,166	2,174	344	5,475	6,080
Zanesville	121,637	33,590	3,678	775	1,964	325	4,301	5,023
Wisconsin								
Amery	11,473	3,972	(2,048)	(535)	1,750	(217)	3,581	4,238
Antigo	24,255	9,092	(3,529)	762	1,602	(377)	3,687	4,363
Appleton	165,528	38,960	2,687	654	1,474	261	3,629	3,962
Arcadia	4,707	1,308	(2,016)	(541)	1,384	(314)	3,047	3,606
Ashland	27,562	9,575	(3,825)	754	1,725	(370)	3,480	4,118
Baldwin	8,876	2,295	(2,774)	(680)	1,753	(219)	3,701	3,588
Baraboo	25,198	8,290	(3,848)	603	1,728	(224)	3,837	4,541
Barron	13,460	5,509	(2,791)	(610)	1,655	(223)	3,336	3,948
Beaver Dam	42,292	13,111	3,463	634	1,716	(331)	3,772	4,464
Beloit	56,951	15,211	2,584	744	1,662	(301)	4,073	4,499
Berlin	35,674	14,582	2,481	605	1,627	(285)	3,693	4,370
Black River Falls	13,272	4,688	(3,444)	(742)	1,663	(164)	3,187	3,772
Bloomer	8,511	2,847	(2,677)	(640)	1,573	(162)	3,631	4,084

Hospital Service Area	Resident Population	Medical Enrollees (1992 plus 1993)	Price Adjusted Reim- bursements for All Services	Price Adjusted Reim- bursements for Professional and Lab Services	Price Adjusted Reim- bursements for Inpatient Hospital Services	Price Adjusted Reim- bursements for Outpatient Facilities	AMPCC (1999)	Price Adjusted AMPCC (1999)
Boscobel	6,750	2,159	(2,353)	(429)	1,871	(445)	3,223	3,814
Brookfield	35,205	10,494	(2,580)	739	1,362	(325)	4,429	4,488
Burlington	45,794	11,169	(2,971)	739	1,666	(185)	4,251	4,416
Chilton	13,320	4,053	(3,598)	(728)	1,402	(456)	3,662	3,999
Chippewa Falls	38,098	10,877	(2,796)	680	1,597	(225)	3,631	4,084
Columbus	11,609	3,618	(3,502)	(566)	1,892	(226)	4,008	4,743
Cudahy	59,130	15,023	3,516	896	2,123	(310)	5,090	5,158
Cumberland	10,734	3,546	(2,982)	(540)	1,775	(546)	3,410	4,036
Darlington	6,348	2,188	(2,634)	(604)	1,657	(308)	3,641	4,308
Dodgeville	17,088	5,134	(2,800)	(499)	1,652	(267)	3,395	4,017
Durand	8,320	3,057	(2,790)	(611)	1,901	(179)	3,336	3,948
Eagle River	7,765	3,701	(3,395)	(837)	1,512	(378)	4,169	4,933
Eau Claire	105,310	27,961	2,852	745	1,618	228	3,726	4,191
Edgerton	9,749	2,891	(3,639)	(591)	1,996	(338)	4,098	4,526
Elkhorn	46,493	14,858	3,905	853	1,874	(327)	3,972	4,700
Fond Du Lac	84,518	23,883	3,038	661	1,550	233	3,569	4,223
Fort Atkinson	57,842	15,286	3,461	685	1,836	(404)	4,180	4,947
Friendship	10,690	4,010	(3,629)	(720)	1,985	(491)	4,244	5,023
Grantsburg	8,875	3,835	(2,260)	(366)	1,937	(368)	3,678	4,352
Green Bay	248,264	58,637	2,708	652	1,373	324	3,437	3,757
Hartford	26,138	5,908	(4,163)	(814)	1,755	(271)	4,061	4,115
Hayward	11,378	4,368	(3,237)	(719)	1,774	(229)	3,341	3,954
Hillsboro	8,759	3,044	(2,638)	(556)	1,486	(160)	3,294	3,898
Hudson	18,199	2,676	(1,706)	(414)	1,483	(190)	3,701	3,588
Janesville	72,515	17,738	3,427	826	1,684	(279)	4,098	4,526
Kenosha	119,657	29,315	3,514	896	1,769	321	4,812	4,983
Kewaunee	6,262	1,919	(1,956)	(518)	1,303	(278)	3,214	3,803
La Crosse	175,351	50,000	2,791	645	1,548	195	3,289	3,764
Ladysmith	16,156	5,858	(3,465)	(848)	1,562	(225)	3,264	3,862
Lancaster	11,411	3,599	(2,003)	(368)	1,548	(266)	3,272	3,872
Madison	360,310	68,833	3,072	689	1,607	235	4,310	4,410
Manitowoc	49,792	17,820	3,225	739	1,663	(405)	3,612	4,274
Marinette	49,674	17,873	2,634	762	1,481	(281)	3,377	3,997
Marshfield	82,320	23,924	3,155	895	1,919	139	4,051	4,793
Mauston	17,009	6,154	(3,173)	(577)	1,865	(236)	3,626	4,291
Medford	14,849	4,589	(2,512)	(646)	1,697	(169)	3,525	4,172
Menomonee Falls	64,518	14,235	3,433	847	1,560	(328)	4,347	4,405
Menomonie	33,129	8,493	(2,466)	593	1,549	(172)	3,163	3,743
Merrill	21,244	6,468	(2,965)	(712)	1,718	(347)	3,690	4,367
Milwaukee	886,823	229,485	3,533	899	1,819	289	5,044	5,112
Monroe	37,602	11,512	(3,041)	731	1,886	(216)	3,754	4,442
Neenah	58,629	13,915	2,993	807	1,625	(303)	3,739	4,083
Neillsville	4,904	2,249	(2,612)	(689)	2,010	(529)	3,912	4,629
New London	17,274	4,549	(2,561)	(541)	1,696	(343)	3,335	3,947
New Richmond	17,797	3,175	(2,393)	(511)	1,554	(146)	3,701	3,588
Oconomowoc	40,173	9,866	(2,736)	703	1,656	(263)	4,407	4,466
Oconto Falls	10,389	4,124	(2,582)	(699)	1,572	(363)	3,388	4,009

Hospital Service Area	Resident Population	Medical Enrollees (1992 plus 1993)	Price Adjusted Reim- bursements for All Services	Price Adjusted Reim- bursements for Professional and Lab Services	Price Adjusted Reim- bursements for Inpatient Hospital Services	Price Adjusted Reim- bursements for Outpatient Facilities	MAPCC (1998)	Price Adjusted MAPCC (1998)
Osceola	2,062	1,099	(3,507)	(526)	(2,063)	(272)	3,605	4,266
Oshkosh	79,878	21,957	3,134	786	1,564	304	3,790	4,138
Park Falls	14,710	6,072	(3,053)	(748)	1,669	(166)	3,403	4,027
Phelps	4,062	2,028	(2,974)	(653)	1,707	(485)	4,153	4,914
Platteville	14,544	3,406	(3,031)	(700)	1,669	(847)	3,324	3,934
Plymouth	14,408	4,281	(2,647)	(651)	1,534	(294)	3,294	3,639
Port Washington	35,090	7,414	(2,847)	743	1,532	(261)	4,306	4,363
Portage	24,536	8,647	(2,756)	590	1,786	(207)	3,942	4,665
Prairie Du Chien	15,348	5,301	(2,585)	(518)	1,604	(239)	3,218	3,808
Prairie Du Sac	20,845	5,892	(2,540)	(522)	1,715	(246)	3,839	4,543
Racine	145,112	37,801	3,180	911	1,402	330	4,187	4,349
Reedsburg	14,075	4,952	(2,917)	(576)	1,734	(199)	3,621	4,285
Rhineland	39,410	14,432	3,212	902	1,563	(314)	3,755	4,444
Rice Lake	22,779	7,775	(2,442)	566	1,690	(194)	3,349	3,963
Richland Center	17,519	5,935	(1,948)	(538)	1,585	(212)	3,066	3,628
Ripon	10,694	3,293	(3,211)	(714)	1,472	(587)	3,541	4,191
River Falls	21,772	4,351	(2,910)	(796)	1,390	(225)	3,259	3,159
Shawano	27,822	10,136	(2,387)	720	1,512	(175)	3,081	3,646
Sheboygan	96,670	28,522	2,632	687	1,372	286	3,319	3,667
Shell Lake	9,919	3,783	(5,325)	(699)	1,798	(543)	3,550	4,201
Spooner	8,842	3,709	(1,470)	(336)	1,632	(137)	3,348	3,961
St Croix Falls	18,606	5,511	(2,548)	(551)	2,177	(225)	3,691	4,368
Stanley	8,524	3,291	(2,556)	(780)	1,660	(294)	3,883	4,366
Stevens Point	65,262	14,811	3,052	720	1,841	(215)	3,724	4,407
Stoughton	21,455	5,619	(2,445)	(553)	1,489	(254)	4,278	4,378
Sturgeon Bay	22,057	8,845	(3,643)	823	1,730	(439)	4,139	4,898
Tomah	15,440	4,227	(3,314)	(656)	1,544	(402)	2,976	3,522
Two Rivers	20,013	5,768	(1,951)	(565)	1,633	(254)	3,612	4,274
Viroqua	20,473	7,509	(2,838)	626	1,514	(228)	2,915	3,449
Watertown	25,240	7,549	(3,359)	594	1,628	(365)	4,023	4,760
Waukesha	172,054	30,873	3,356	909	1,681	326	4,406	4,465
Waupaca	21,458	8,756	(2,764)	608	1,535	(566)	3,311	3,918
Waupun	14,175	3,939	(2,590)	(580)	1,608	(311)	3,541	4,191
Wausau	95,490	25,864	2,603	728	1,522	207	3,708	4,211
West Allis	87,372	25,269	2,959	726	1,671	351	4,940	5,006
West Bend	50,585	12,917	2,506	631	1,602	(240)	4,140	4,195
Whitehall	8,503	3,259	(3,128)	(677)	1,717	(275)	3,047	3,606
Wild Rose	2,127	1,262	(1,906)	(549)	(1,872)	(266)	3,698	4,377
Wisconsin Rapids	44,084	13,046	3,224	815	1,699	(286)	4,345	5,142
Woodruff	17,526	9,116	(4,137)	866	1,813	(242)	4,024	4,762

PART FOUR

The Physician Workforce in the Great Lakes States

This section provides measures of the allocation of physicians in active practice to the populations living in the Great Lakes States' hospital service areas. A physician in active practice is defined as one who reported that he or she spent at least 20 hours a week in patient care.

The estimates for the physician workforce per 100,000 take into account patient migration across the boundaries of hospital service areas and have been adjusted for differences in age and sex of the local populations. Part Nine of the national volume of the Dartmouth Atlas of Health Care explains how these adjustments were made.

The data, which come from the American Medical Association, the American Osteopathic Association, and the Medicare program, are for 1993. The population count is based on the 1990 United States census. The data used for the health maintenance organization benchmark is from a large staff model health maintenance organization. It has been adjusted to account for differences in age and sex according to methods described in Part Nine of the national Atlas. Additional adjustments were made to account for out-of-plan use, as described in the note to Table 4.

The number of physicians in the workforce allocated to the hospital service area appears in parentheses if the total population of the hospital service area was less than 5,000.

The Physician Workforce Active in Patient Care

The number of physicians in active practice per hundred thousand residents of the Great Lakes States ranged from fewer than 80 to more than 225. Among the region's larger hospital service areas, the numbers of physicians allocated to residents were above the national average of 189 in Cleveland (240.8); Chicago (227.5); and Milwaukee (214.2). Cincinnati (206.2); Toledo, Ohio (203.6); Akron, Ohio (200.7); Ann Arbor, Michigan (198.8); Indianapolis (185.6); and Detroit (178.0) were close to the national average. Dayton, Ohio (160.0); Columbus, Ohio (158.3); and Fort Wayne, Indiana (121.7) were below it.

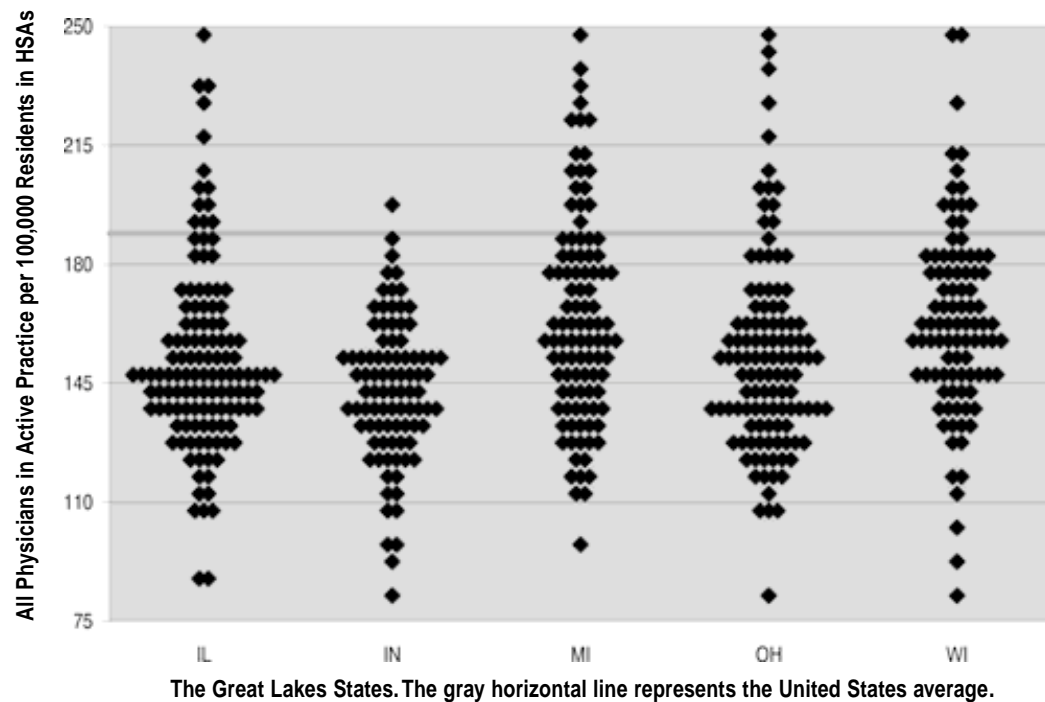
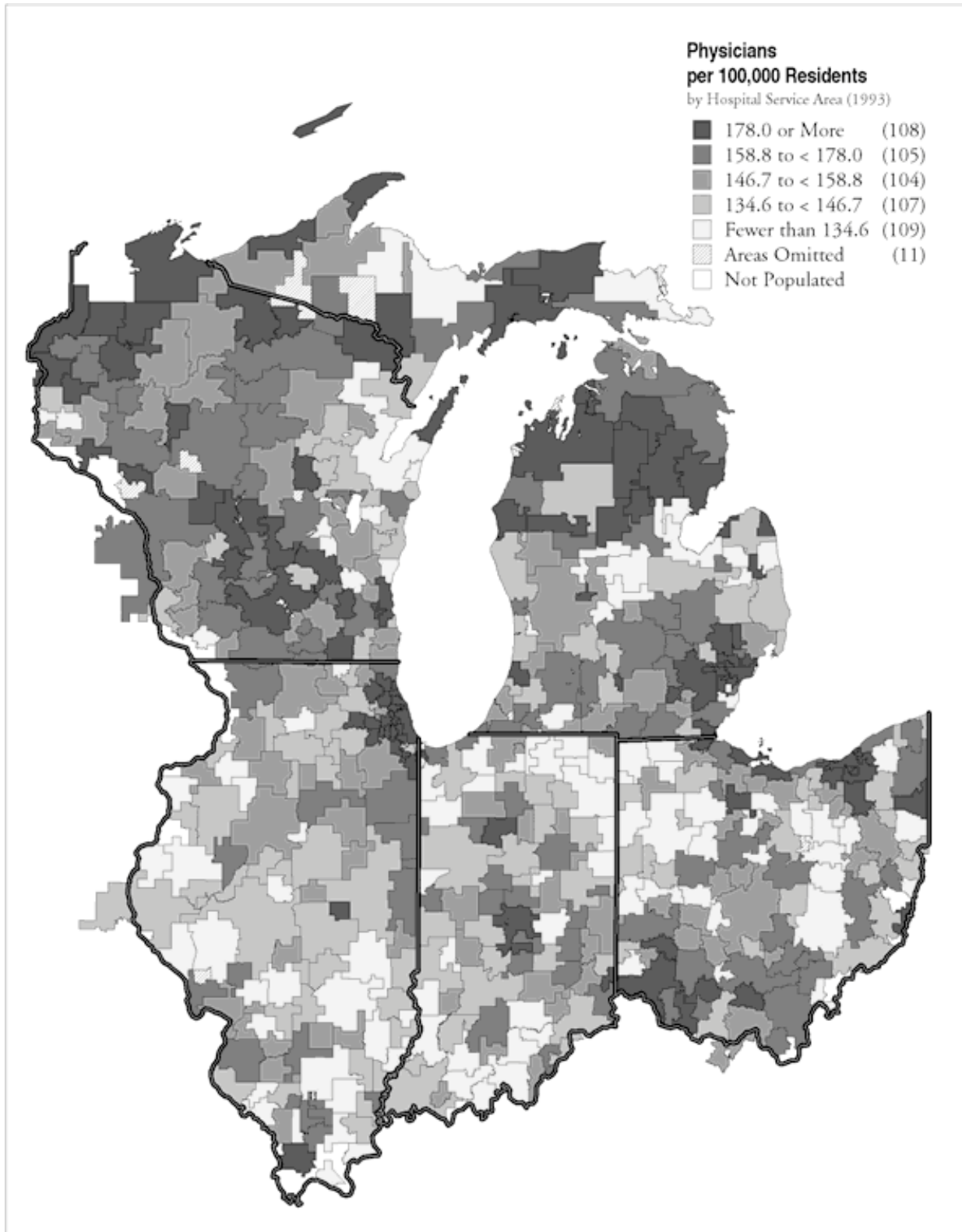


Figure 4.1. Physicians Allocated to Hospital Service Areas in the Great Lakes States (1993)

The number of physicians in active practice per hundred thousand residents, after adjusting for differences in age and sex of the local population, varied by a factor of more than 3. Each point represents one hospital service area.



Specialist Physicians

The number of specialist physicians in active practice per hundred thousand residents of the Great Lakes States varied from fewer than 80 to more than 190. Among the region's larger hospital service areas, the numbers of specialist physicians were above the national average of 122 per hundred thousand residents in Cleveland (159.2); Milwaukee (143.8); and Chicago (139.3). Cincinnati (135.3); Toledo, Ohio (134.9); Ann Arbor, Michigan (131.6); Akron, Ohio (126.5); and Indianapolis (121.3) were slightly higher than the national average. Detroit (115.6); Columbus, Ohio (99.5); Dayton, Ohio (96.4); and Fort Wayne, Indiana (81.8) were below it.

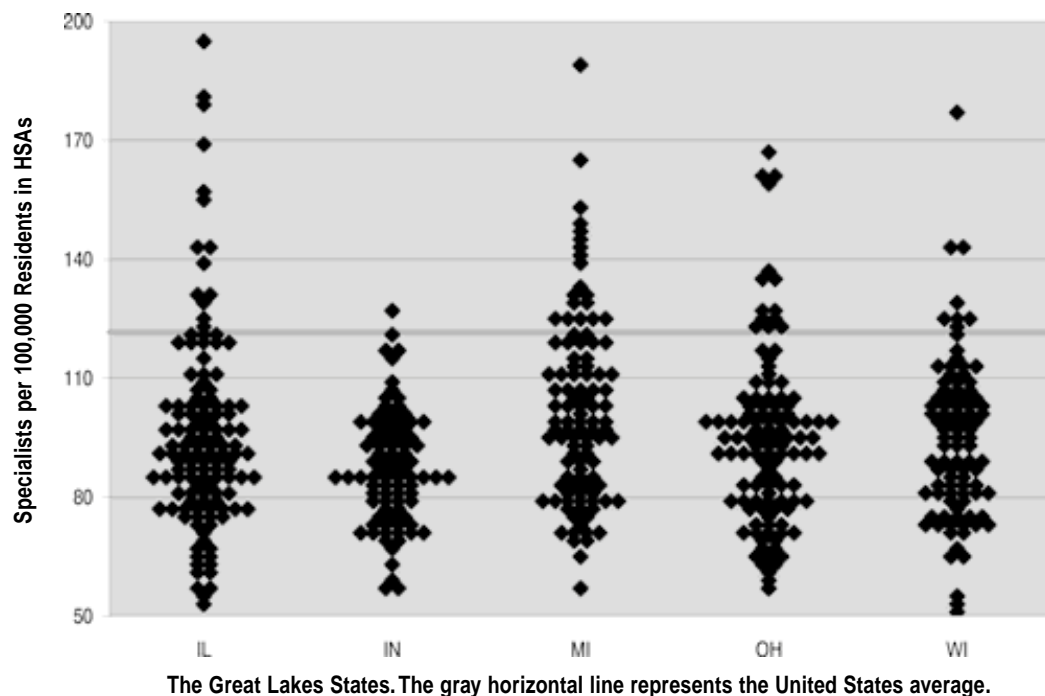
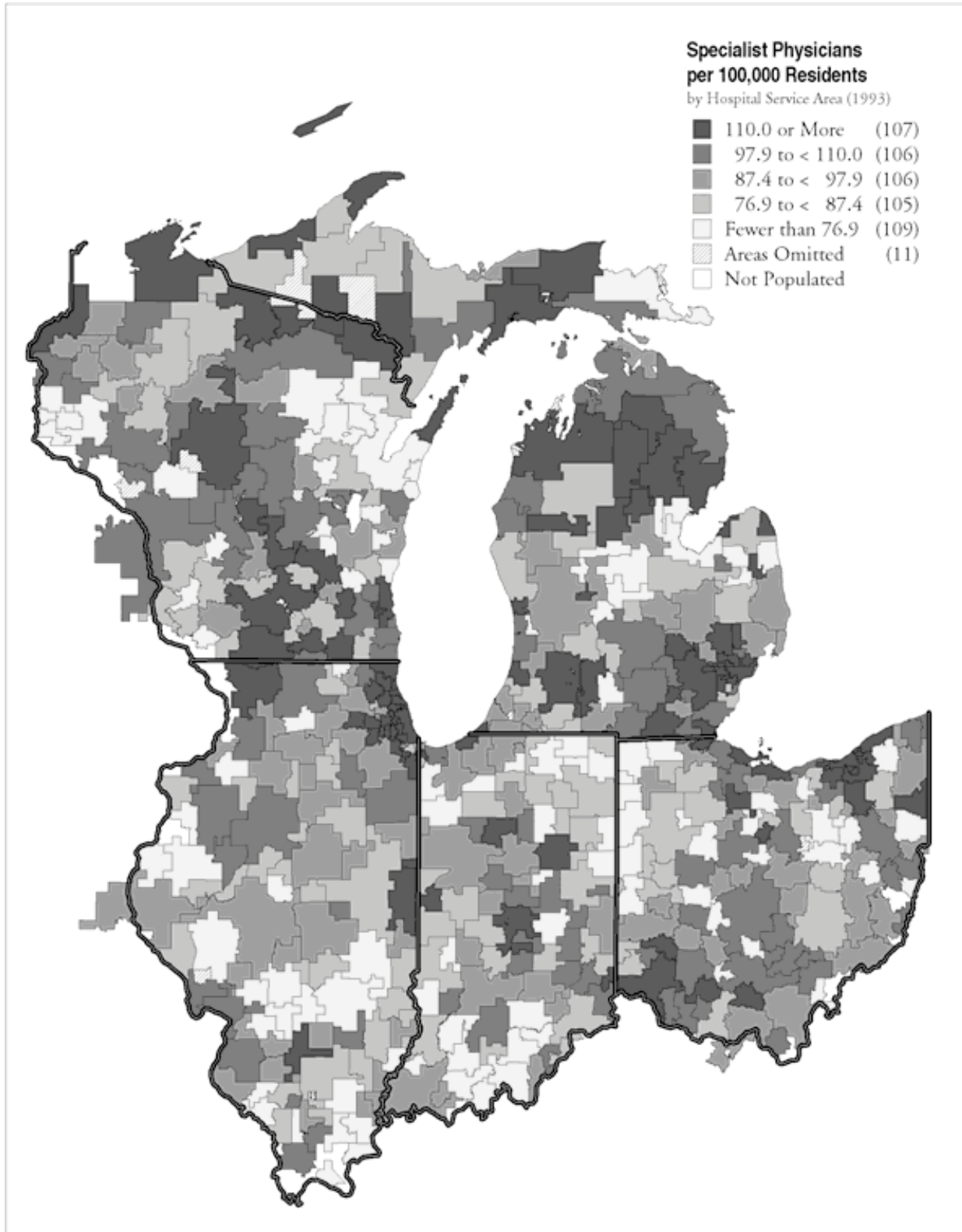


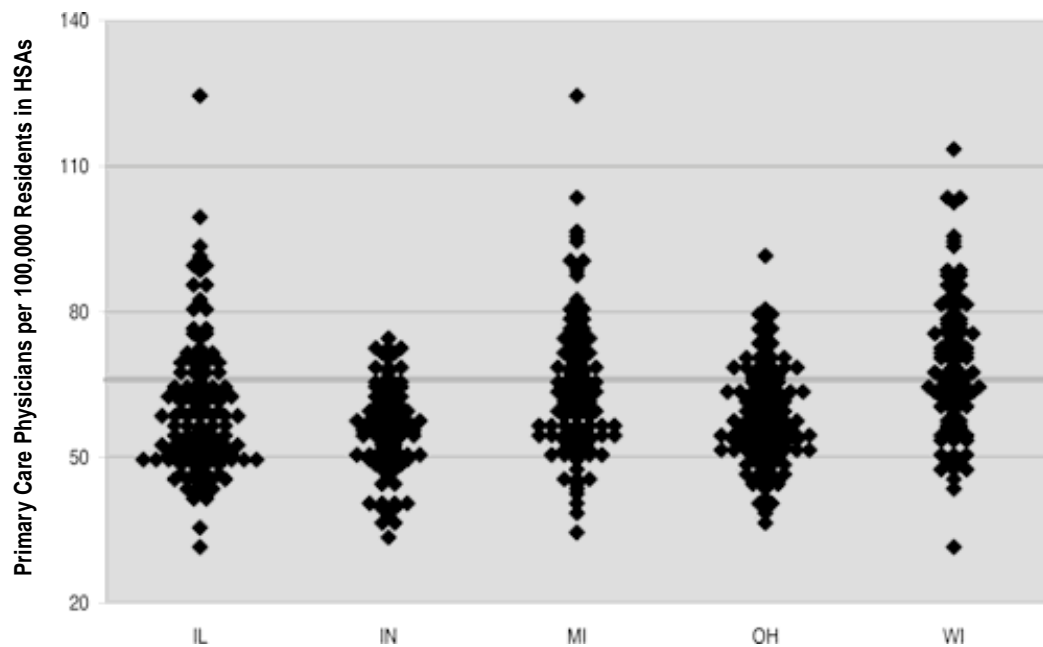
Figure 4.2. Specialists Allocated to Hospital Service Areas in the Great Lakes States (1993)

The number of specialist physicians in active practice per hundred thousand residents, after adjusting for differences in age and sex of the local population, varied by a factor of more than 3.7. Each point represents one hospital service area.



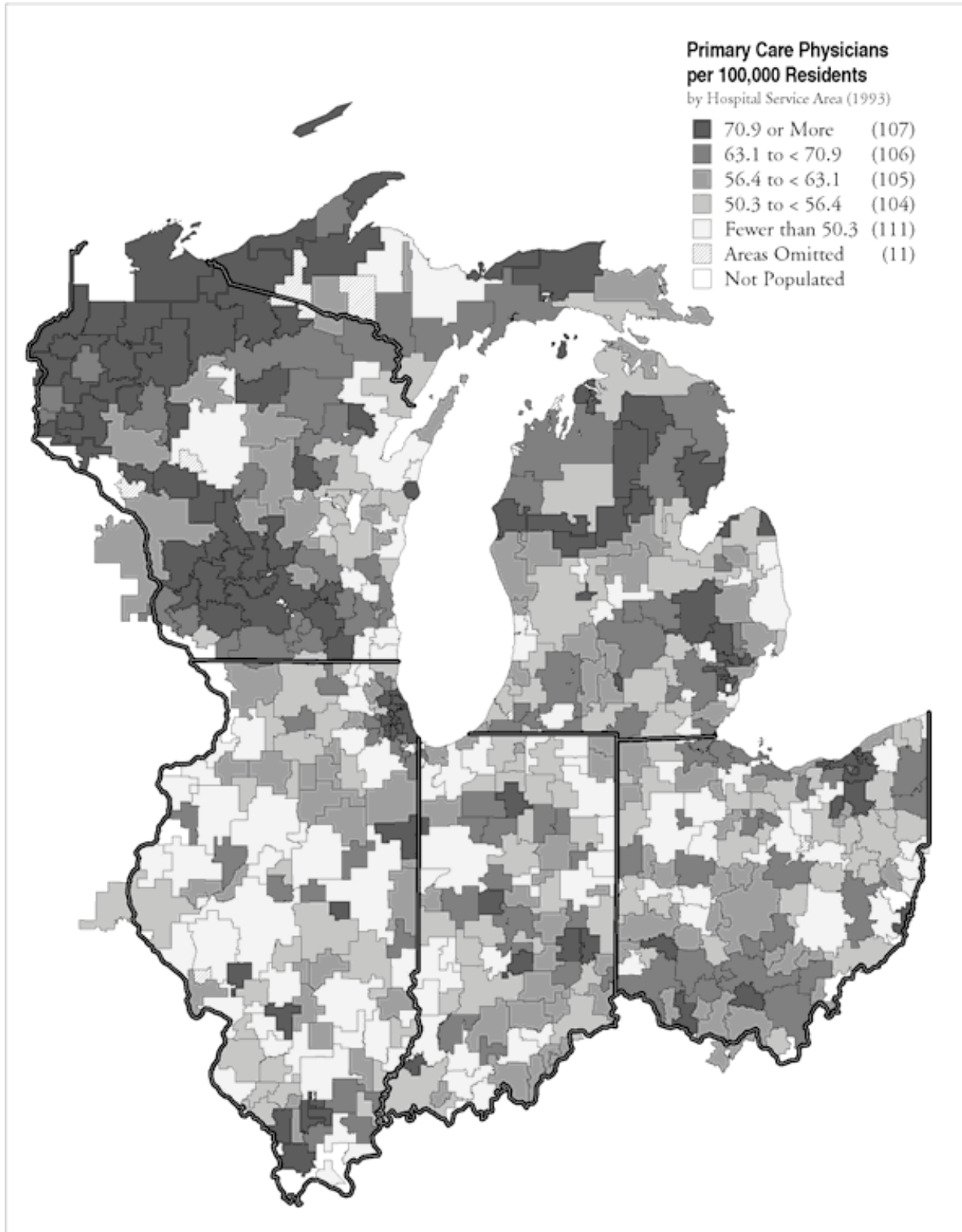
Physicians in Primary Care

The number of primary care physicians in active practice per hundred thousand residents of the Great Lakes States ranged from fewer than 35 to more than 120. Among the region's larger hospital service areas, the numbers of primary care physicians per hundred thousand residents were above the national average of 66 in Chicago (85.9); Cleveland (80.1); and Akron, Ohio (71.9). Ann Arbor, Michigan (65.6); Indianapolis (63.3); Dayton, Ohio (62.7); Detroit (61.2); Columbus, Ohio (57.5); and Fort Wayne, Indiana (39.4) were below the national average.



The Great Lakes States. The gray horizontal line represents the United States average.

Figure 4.3. Primary Care Physicians Allocated to Hospital Service Areas in the Great Lakes States (1993)
The number of primary care physicians in active practice per hundred thousand residents, after adjusting for differences in age and sex of the local population, varied by a factor of more than 2.5. Each point represents one hospital service area.



Benchmarking: The Physician Workforce Active in Patient Care

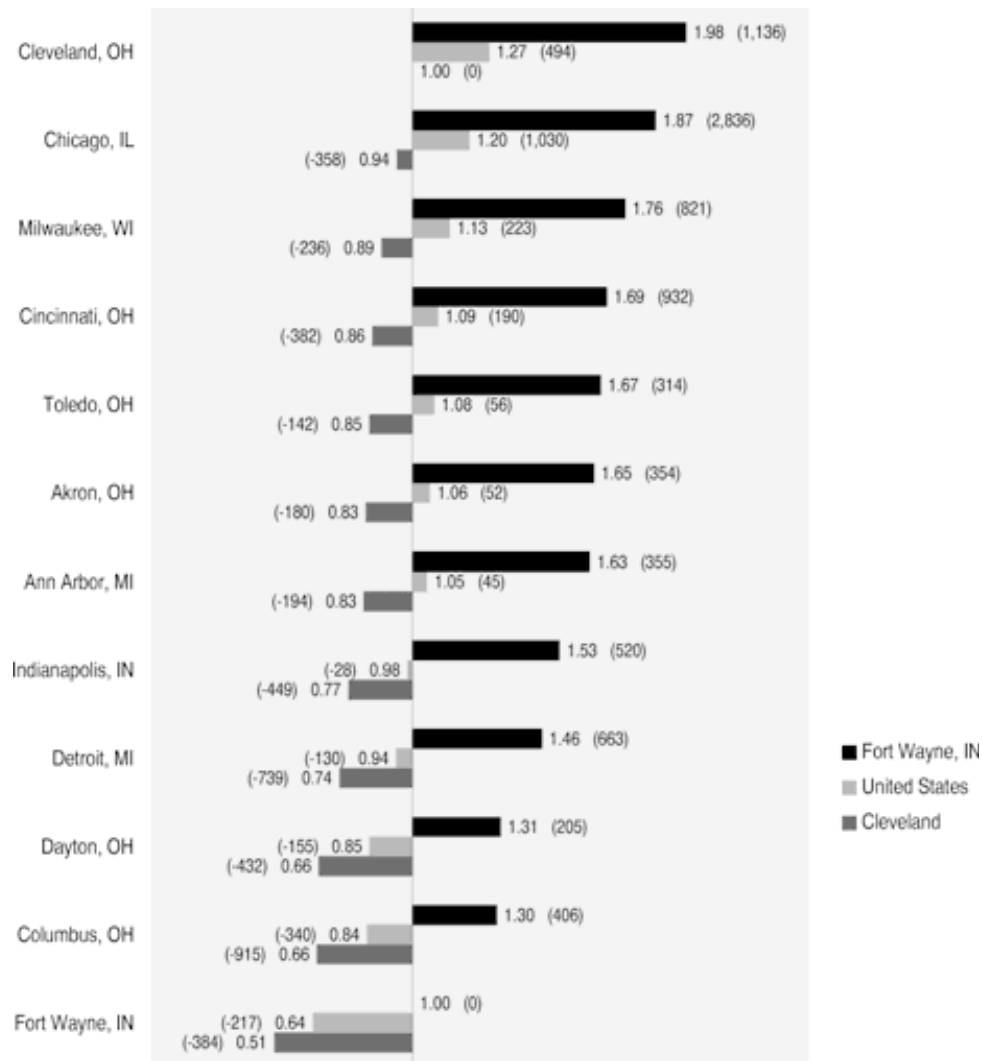


Figure 4.4. The Total Physician Workforce Allocated to Selected Hospital Service Areas in the Great Lakes States Compared to the Highest and Lowest Ranked Selected Areas (1993)

The figure gives the ratio of total physicians in selected hospital service areas to the lowest and the highest ranked areas. It also compares each selected area to the U.S. average. The number of physicians above (+) or below (-) the number predicted by the experience in the benchmark area for 1993 is in parentheses. For example, the number of physicians per hundred thousand allocated to the residents of Cleveland was 1.98 times higher than the number allocated to residents of Fort Wayne, Indiana. If the level of physician employment of the Fort Wayne benchmark in 1993 had prevailed, 1,136 fewer physicians would have been needed by the residents of Cleveland.

Benchmarking: The Physician Workforce Active in Patient Care

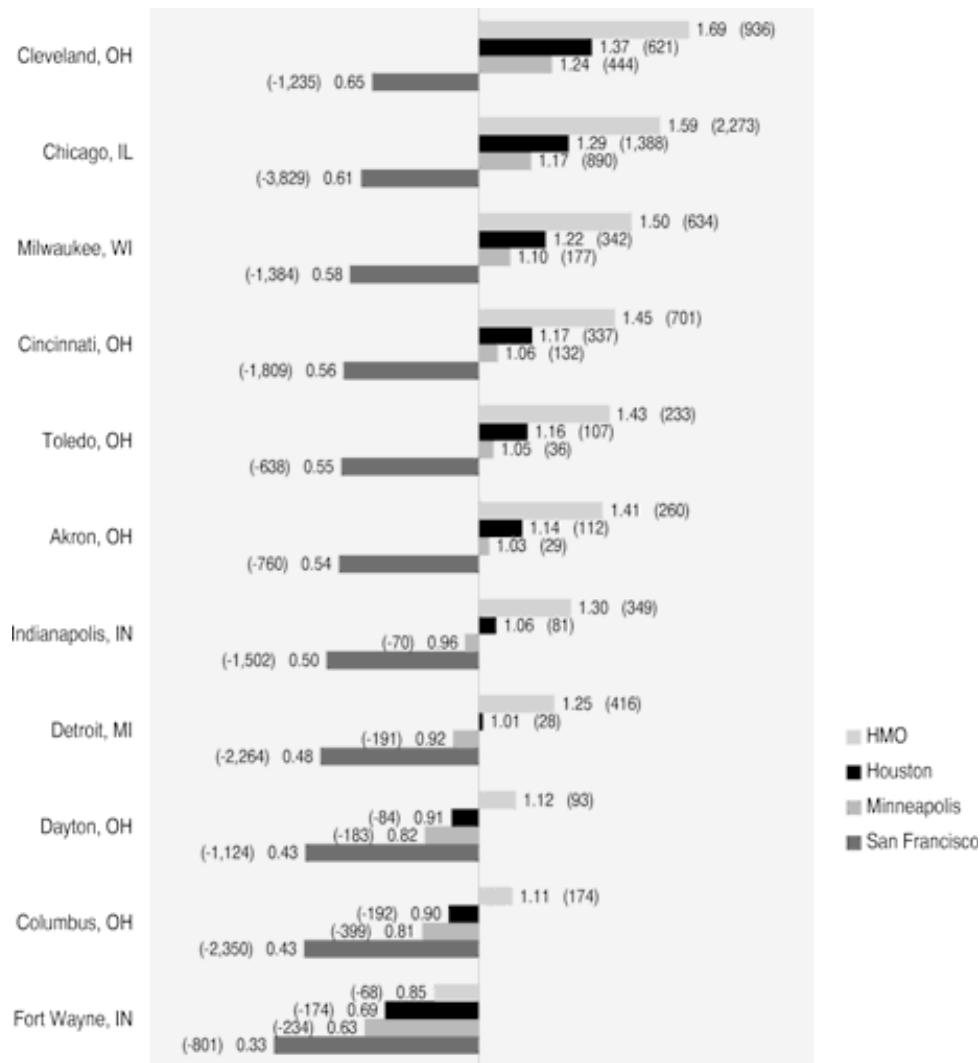


Figure 4.5. The Total Physician Workforce Allocated to Selected Hospital Service Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. and to a Large HMO (1993)

The figure gives the ratio of total physicians in selected hospital service areas in the Great Lakes States to other areas. The number of physicians above (+) or below (-) the number of physicians predicted by the experience in the benchmark area is in parentheses. For example, the number of physicians per hundred thousand allocated to the residents of Cleveland was 1.69 times higher than the number allocated to members of the health maintenance organization. If the level of physician employment of the health maintenance organization benchmark in 1993 had prevailed, 936 fewer physicians would have been needed by the residents of Cleveland. If the San Francisco benchmark had prevailed, 1,235 additional physicians would have been needed by the residents of Cleveland.

Benchmarking: Specialists

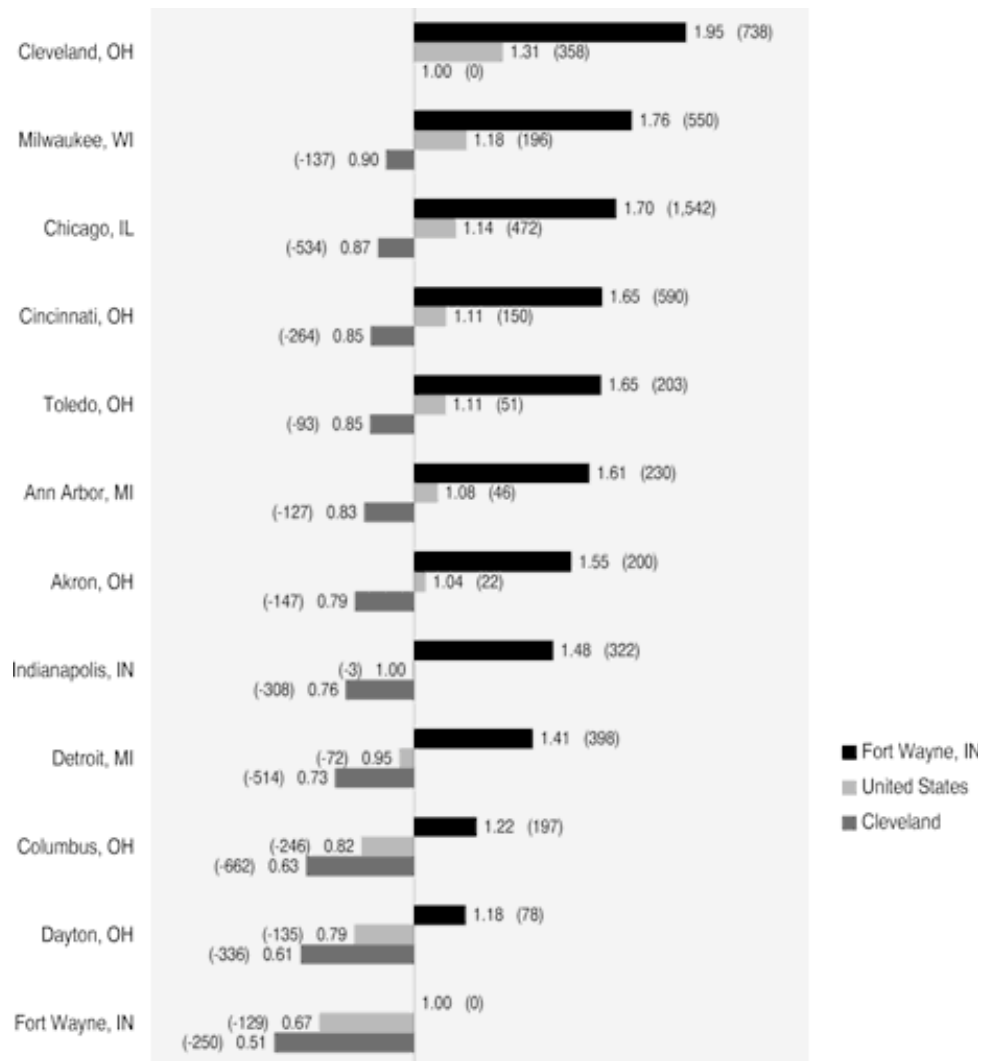


Figure 4.6. Specialist Physicians Allocated to Selected Hospital Service Areas in the Great Lakes States Compared to the Highest and Lowest Ranked Selected Areas (1993)

The figure gives the ratio of specialist physicians in selected hospital service areas to the lowest and the highest ranked areas. It also compares each selected area to the U.S. average. The number of specialist physicians above (+) or below (-) the number predicted by the experience in the benchmark area for 1993 is in parentheses. For example, the number of specialist physicians per hundred thousand allocated to the residents of Cleveland was 1.95 times higher than the number allocated to residents of Fort Wayne, Indiana. If the level of specialist physician employment of the Fort Wayne benchmark in 1993 had prevailed, 738 fewer specialists would have been needed by the residents of Cleveland.

Benchmarking: Specialists

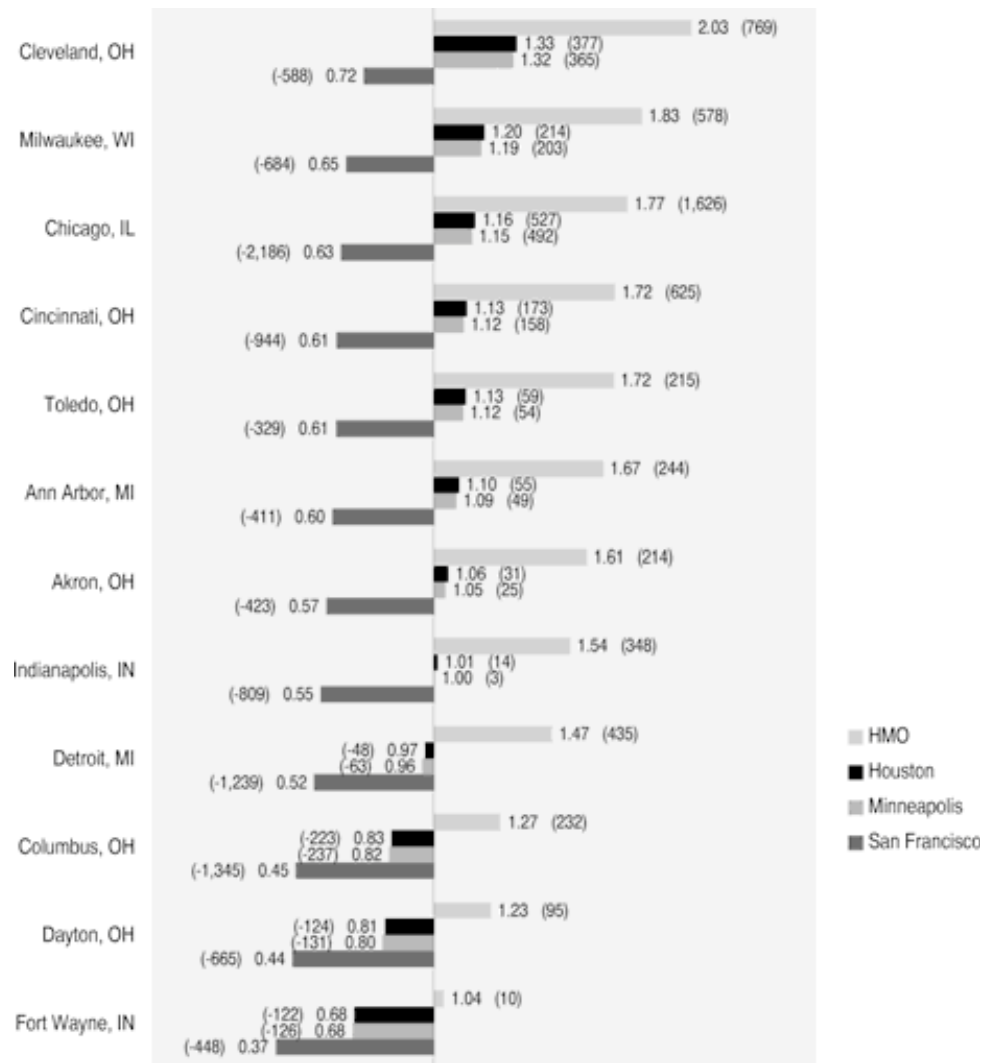


Figure 4.7. Specialist Physicians Allocated to Selected Hospital Service Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. and to a Large HMO (1993)

The figure gives the ratio of specialist physicians in selected hospital service areas in the Great Lakes States to other areas. The number of specialist physicians above (+) or below (-) the number of physicians predicted by the experience in the benchmark area is in parentheses. For example, the number of specialists per hundred thousand allocated to the residents of Cleveland was 2.03 times higher than the number allocated to the members of the health maintenance organization. If the level of specialist physician employment of the health maintenance organization benchmark in 1993 had prevailed, 769 fewer specialists would have been needed by the residents of Cleveland. If the San Francisco benchmark had prevailed, 588 additional specialists would have been needed by the residents of Cleveland.

Benchmarking: Primary Care Physicians

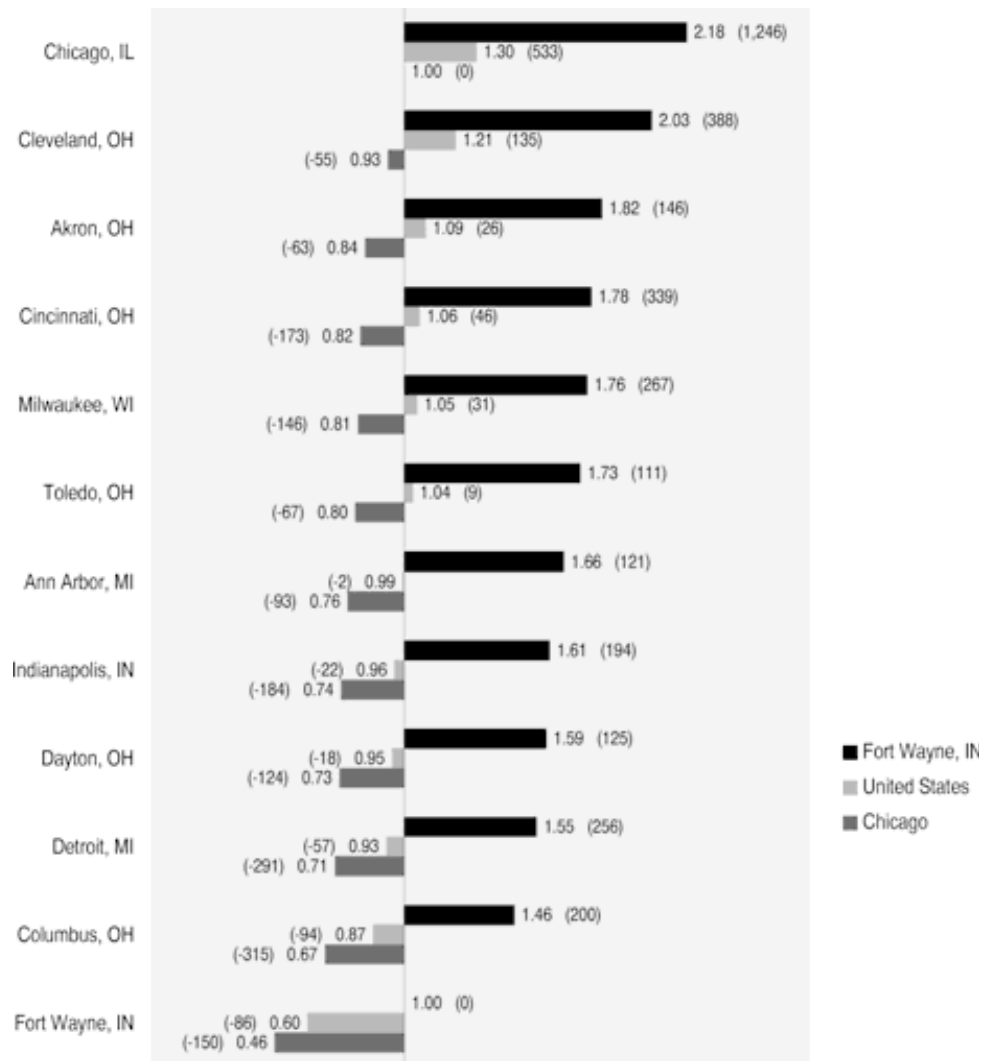


Figure 4.8. Primary Care Physicians Allocated to Selected Hospital Service Areas in the Great Lakes States Compared to the Highest and Lowest Ranked Selected Areas (1993)

The figure gives the ratio of primary care physicians in selected hospital service areas to the lowest and the highest ranked areas. It also compares each selected area to the U.S. average. The number of primary care physicians above (+) or below (-) the number predicted by the experience in the benchmark area for 1993 is in parentheses. For example, the number of primary care physicians per hundred thousand allocated to the residents of Chicago was 2.18 times higher than the number allocated to residents of Fort Wayne, Indiana. If the level of primary care physician employment of the Fort Wayne benchmark in 1993 had prevailed, 1,246 fewer primary care physicians would have been needed by Chicago residents.

Benchmarking: Primary Care Physicians

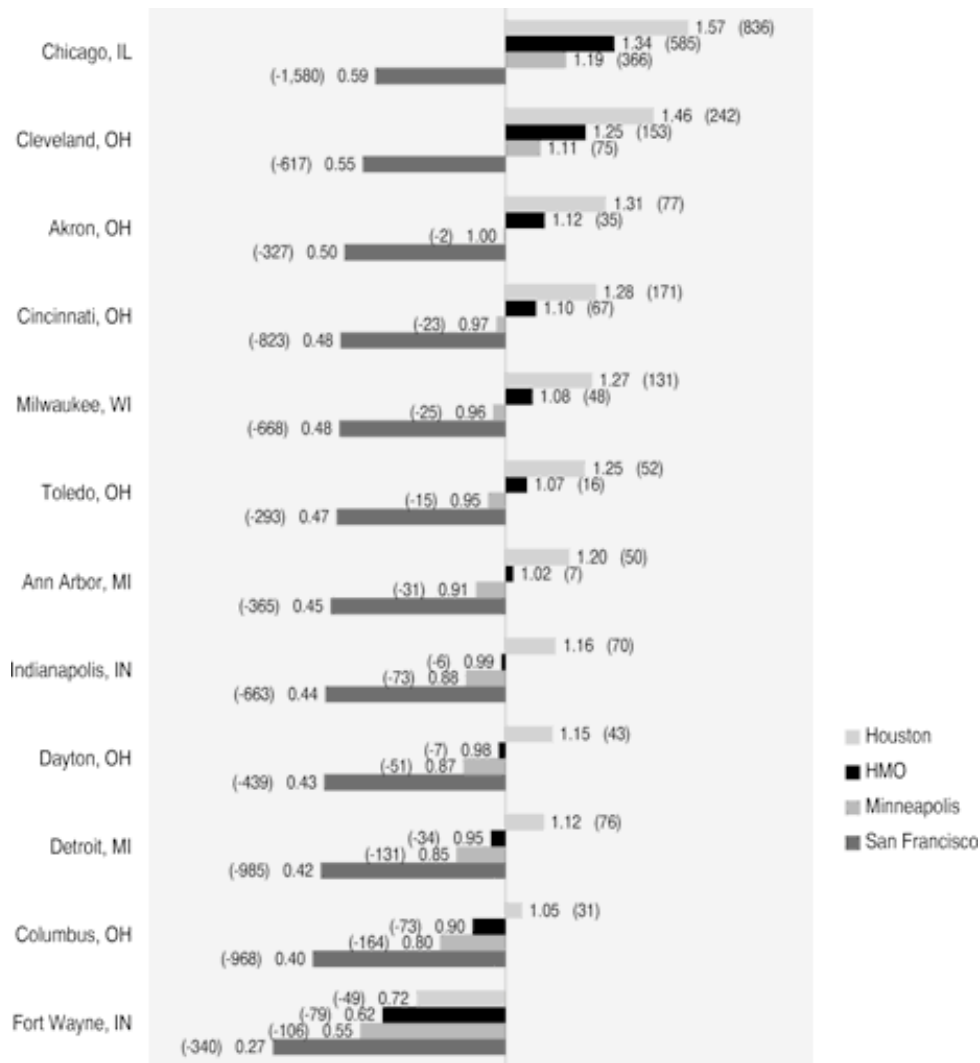


Figure 4.9. Primary Care Physicians Allocated to Selected Hospital Service Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. and to a Large HMO (1993)

The figure gives the ratio of primary care physicians in selected hospital service areas in the Great Lakes States to other areas. The number of primary care physicians above (+) or below (-) the number predicted by the experience in the benchmark area is in parentheses. For example, the number of primary care physicians per hundred thousand allocated to the residents of Chicago was 1.57 times higher than the number allocated to residents of Houston. If the level of primary care physician employment of the Houston benchmark in 1993 had prevailed, 836 fewer primary care physicians would have been needed by the residents of Chicago. If the San Francisco benchmark had prevailed, 1,580 additional primary care physicians would have been needed by Chicago residents.

TABLE 4 All rates are age and sex adjusted and corrected for out of area use. See Part Nine of the national volume of the Dartmouth Atlas of Health Care for details.

The count of primary physicians added to the count of specialists does not equal the count for all physicians; the difference (about 1% nationally) is attributable to those in the “All Physician” category whose specialty areas were “unspecified.”

Hospital service areas with populations of 5,000 or fewer residents are omitted from the figures and maps. In the table, the data for these areas are in parentheses.

The estimates for the staffing patterns of the large health maintenance organization have been adjusted using a .10 adjustment for out-of-plan use and .04 for low Medicaid numbers; i.e., multiplied by a factor of 1.14.

(Weiner JP. Forecasting the Effects of Health Reform on U.S. Physician Workforce Requirement. JAMA. 1994;272:222-239)

TABLE 4

**Physicians in Active Practice Serving Residents of Hospital Service Areas
(Physicians per 100,000 population, 1993)**

Hospital Service Area	Resident Population	All Physicians	Primary Care Physicians	Specialists
Illinois				
Aledo	11,174	116.0	35.1	80.5
Alton	117,143	154.7	49.8	103.0
Anna	18,825	180.0	76.0	99.7
Arlington Heights	318,558	196.2	74.2	120.2
Aurora	165,056	137.2	48.8	88.2
Barrington	97,777	183.4	61.3	120.8
Belleville	272,839	159.5	55.0	102.5
Belvidere	35,662	147.6	69.0	77.9
Benton	11,419	159.6	71.7	87.2
Berwyn	197,083	253.1	93.4	156.5
Bloomington	134,005	137.4	45.8	91.6
Blue Island	56,815	145.1	51.3	91.9
Breese	21,669	148.0	49.4	97.8
Canton	27,043	171.5	67.2	103.9
Carbondale	39,799	132.6	58.0	74.3
Carlinville	10,878	166.2	71.5	93.7
Carmi	8,234	163.4	67.1	95.7
Carrollton	3,986	(137.0)	(56.1)	(80.1)
Carthage	15,055	116.8	48.2	68.3
Centralia	37,455	164.1	43.7	119.7
Chester	17,285	112.0	53.3	57.2
Chicago	2,680,712	227.5	85.9	139.3
Chicago Heights	133,405	202.5	69.4	131.9
Clinton	11,863	156.8	69.3	87.0
Danville	94,296	174.3	62.7	111.4
De Kalb	62,303	146.5	52.0	94.2
Decatur	145,026	143.1	52.2	90.0
Dixon	27,610	145.9	52.4	93.2
Downers Grove	84,711	200.1	65.8	131.9
Du Quoin	10,061	169.2	62.4	105.2
Effingham	53,837	124.7	49.8	73.0
Eldorado	13,693	134.8	67.2	67.1
Elgin	246,641	141.7	50.3	89.7
Elk Grove Village	122,151	148.5	53.8	93.2
Elmhurst	212,505	207.0	80.7	124.3
Eureka	7,478	127.2	46.0	80.9
Evanston	212,335	272.7	89.7	180.9
Fairfield	12,406	140.0	58.1	81.5
Flora	11,448	146.9	45.2	101.0
Freeport	61,763	170.4	58.4	111.5
Galesburg	68,895	143.8	41.6	100.7
Geneseo	17,128	133.8	56.9	76.4
Geneva	78,478	187.5	62.7	123.4
Gibson City	8,955	155.5	64.6	90.6
Glendale Heights	43,884	158.2	66.8	90.5
Granite City	57,812	149.9	42.0	107.0
Greenville	13,706	138.1	76.3	61.0
Harrisburg	20,509	106.2	43.2	62.5
Harvard	10,790	108.1	50.8	56.8
Harvey	127,326	136.7	50.2	84.5
Havana	7,680	142.7	56.8	85.4
Hazel Crest	110,480	185.1	64.9	118.2
Herrin	39,421	164.9	76.1	87.7
Highland	19,091	125.1	47.3	76.8
Highland Park	70,163	307.6	80.5	223.3
Hillsboro	21,015	108.4	45.7	62.1
Hinsdale	105,246	283.6	85.2	195.5
Hoffman Estates	97,044	139.9	54.2	84.2
Hoopeston	6,600	169.5	58.2	111.0
Hopedale	6,286	141.7	56.2	85.2
Jacksonville	51,703	126.0	49.6	76.1
Jerseyville	17,263	171.2	60.5	109.5
Joliet	297,781	147.8	49.9	97.3
Kankakee	109,091	163.6	59.4	102.1
Kewanee	18,512	132.8	54.4	78.0
La Grange	120,869	281.7	99.1	179.8
Lake Forest	34,810	231.3	61.0	168.6
Lawrenceville	13,426	145.7	56.3	89.2
Libertyville	108,060	183.0	63.5	118.2
Lincoln	22,539	131.1	64.9	65.7
Litchfield	23,405	124.7	50.8	73.2
Macomb	41,682	125.2	49.8	75.2
Marion	27,662	170.7	63.9	101.6
Maryville	74,867	153.4	54.0	96.4
Mattoon	69,630	129.1	53.4	75.4
Mchenry	80,690	153.1	49.7	101.9
Mcleansboro	9,552	120.0	64.5	55.1

Hospital Service Area	Resident Population	All Physicians	Primary Care Physicians	Specialists	Hospital Service Area	Resident Population	All Physicians	Primary Care Physicians	Specialists
Melrose Park	160,285	217.0	71.9	143.5	Vandalia	14,713	135.5	58.3	70.4
Mendota	21,209	146.7	55.1	91.1	Watseka	21,442	165.7	72.5	92.2
Metropolis	14,736	85.7	31.7	53.5	Waukegan	208,959	174.7	53.0	119.7
Monmouth	17,759	144.7	70.0	74.1	West Frankfort	14,991	169.2	82.1	85.6
Monticello	8,147	193.3	91.0	101.7	Winfield	173,873	190.7	69.7	119.7
Morris	31,960	155.3	52.6	102.5	Woodstock	23,376	141.1	46.8	93.6
Mount Carmel	13,551	114.7	48.8	65.6	Indiana				
Mount Vernon	46,308	124.1	46.1	77.4	Anderson	126,156	154.4	52.1	101.9
Murphysboro	20,733	153.3	75.8	77.1	Angola	24,677	152.0	62.5	85.7
Naperville	151,644	186.3	70.5	114.7	Auburn	35,564	115.2	56.4	58.5
Nashville	10,358	151.1	51.5	97.8	Batesville	18,950	154.2	52.7	101.2
Oak Lawn	235,770	192.2	70.1	120.5	Bedford	52,039	166.8	59.9	106.5
Oak Park	80,199	232.8	88.2	142.7	Beech Grove	163,183	161.7	55.5	105.7
Olney	20,098	129.6	46.9	82.5	Bloomington	144,870	140.3	50.9	89.2
Ottawa	31,917	142.1	59.9	81.9	Bluffton	30,547	139.6	54.2	85.1
Palos Heights	141,604	199.5	67.6	129.3	Boonville	13,342	152.2	58.3	93.4
Pana	8,320	139.7	61.6	77.3	Brazil	20,484	120.9	48.2	72.4
Paris	14,177	154.6	64.2	90.1	Bremen	13,324	98.2	50.8	47.1
Park Ridge	170,999	247.5	89.9	155.1	Charlestown	12,901	146.1	62.4	83.4
Pekin	55,126	135.0	49.4	85.3	Clinton	26,538	137.0	56.0	80.8
Peoria	286,834	149.8	45.8	103.4	Columbia City	25,697	138.8	56.2	79.7
Peru	28,896	155.6	59.1	96.1	Columbus	73,199	151.9	57.2	94.4
Pinckneyville	9,588	143.2	51.0	84.4	Connersville	28,544	157.8	72.4	85.0
Pittsfield	13,642	134.6	49.5	84.6	Corydon	33,456	133.3	58.3	74.5
Pontiac	29,416	149.3	62.5	86.3	Crawfordsville	36,620	154.5	68.2	85.7
Princeton	24,176	156.4	58.8	97.2	Crown Point	74,348	113.7	40.3	73.0
Quincy	89,858	143.1	51.9	91.0	Danville	54,074	138.0	50.6	85.9
Red Bud	21,433	138.6	48.0	89.3	Decatur	30,195	121.4	46.7	71.7
Robinson	18,603	142.2	62.6	79.3	Dyer	32,364	123.5	36.9	85.5
Rochelle	17,909	129.6	68.8	60.3	East Chicago	33,775	130.7	39.1	88.0
Rock Island	115,630	154.5	46.7	106.8	Elkhart	103,903	127.5	47.7	79.7
Rockford	285,530	157.2	52.4	103.6	Elwood	13,598	131.5	57.5	73.5
Rosiclare	5,888	86.1	43.1	42.7	Evansville	261,319	146.4	54.8	90.9
Rushville	8,309	138.1	58.1	79.5	Fort Wayne	322,307	121.7	39.4	81.8
Salem	15,949	148.0	59.1	88.1	Frankfort	24,958	166.1	63.3	98.0
Sandwich	16,546	139.0	56.5	82.2	Franklin	42,222	173.5	74.8	98.3
Shelbyville	15,737	146.5	62.7	77.4	Gary	238,779	159.0	58.0	99.8
Silvis	50,832	138.7	49.5	87.5	Goshen	78,345	126.5	55.3	71.0
Skokie	54,269	356.8	124.3	230.5	Greencastle	27,351	149.6	55.3	93.7
Sparta	11,195	128.3	54.5	66.9	Greenfield	50,949	131.9	59.7	71.8
Spring Valley	14,001	135.0	52.8	81.9	Greensburg	19,250	168.3	64.3	103.6
Springfield	229,063	140.2	44.1	95.0	Hammond	90,609	138.0	51.7	85.0
Staunton	9,764	150.1	42.8	105.9	Hartford City	13,515	151.4	70.6	80.0
Sterling	53,374	149.2	50.1	98.5	Huntingburg	25,304	92.6	40.3	46.5
Streator	38,382	161.0	61.2	97.2	Huntington	25,854	151.2	65.6	85.2
Taylorville	21,109	148.8	54.8	93.3	Indianapolis	813,184	185.6	63.3	121.3
Urbana	205,867	135.1	50.1	84.6	Jasper	29,569	96.7	38.7	57.2

Hospital Service Area	Resident Population	All Physicians	Primary Care Physicians	Specialists
Jeffersonville	73,614	159.7	60.9	98.5
Kendallville	18,523	125.4	49.7	75.4
Knox	18,439	127.1	54.5	71.9
Kokomo	101,437	144.4	51.1	93.0
Lafayette	176,293	140.5	49.5	89.5
Lagrange	26,120	80.3	40.4	39.8
Laporte	54,617	132.2	40.9	91.0
Lawrenceburg	41,081	165.0	61.8	102.8
Lebanon	23,836	169.7	72.6	93.1
Linton	14,651	153.7	54.8	98.6
Logansport	33,171	181.7	65.2	116.1
Madison	48,242	138.7	53.2	85.2
Marion	80,147	174.6	57.0	117.3
Martinsville	34,988	136.6	50.0	86.3
Michigan City	64,754	175.4	59.4	114.5
Mishawaka	29,911	149.9	60.9	88.8
Monticello	17,391	164.5	64.1	98.9
Muncie	149,162	136.4	47.9	87.3
Munster	139,544	196.0	68.7	126.1
New Albany	71,408	155.0	59.0	95.6
New Castle	33,184	177.9	68.5	108.8
Noblesville	48,760	164.7	58.1	104.8
North Vernon	16,639	152.5	61.8	90.5
Paoli	12,467	150.0	65.4	83.9
Peru	29,252	152.7	53.7	98.6
Plymouth	23,540	141.1	54.8	83.2
Portland	16,513	113.3	49.5	63.1
Princeton	14,227	140.5	71.2	68.9
Rensselaer	14,832	132.8	60.3	67.4
Richmond	86,249	146.8	50.6	95.8
Rochester	21,139	168.9	72.4	95.9
Rushville	15,749	172.4	71.2	100.7
Salem	23,542	106.1	33.7	68.5
Scottsburg	19,827	120.4	48.5	71.5
Seymour	38,702	133.5	57.3	76.0
Shelbyville	31,150	135.6	57.4	77.8
South Bend	231,073	148.0	55.1	92.7
Sullivan	18,338	118.2	45.8	72.2
Tell City	19,133	108.8	50.2	57.7
Terre Haute	131,930	135.7	49.7	85.8
Tipton	13,546	146.0	48.2	97.2
Valparaiso	89,415	134.8	44.8	89.1
Vincennes	51,319	125.7	44.5	80.9
Wabash	32,515	141.1	64.7	76.0
Warsaw	48,340	135.6	55.2	80.0
Washington	27,272	142.6	67.7	71.7
Williamsport	6,548	121.3	36.9	83.8

Hospital Service Area	Resident Population	All Physicians	Primary Care Physicians	Specialists
Winamac	14,609	147.0	66.4	79.5
Winchester	8,830	161.0	62.2	98.0
Michigan				
Adrian	60,613	176.1	55.6	119.5
Albion	13,514	187.4	78.9	107.8
Allegan	22,512	150.1	54.7	94.8
Alma	55,067	129.6	59.0	70.3
Alpena	45,125	163.0	64.2	98.3
Ann Arbor	460,644	198.8	65.6	131.6
Bad Axe	19,988	135.7	51.7	83.6
Battle Creek	110,090	171.0	58.0	110.9
Bay City	121,196	129.6	51.6	76.4
Berrien Center	2,324	(124.4)	(66.5)	(57.4)
Big Rapids	29,441	158.9	71.1	85.4
Cadillac	46,733	135.4	53.2	81.9
Caro	11,389	164.3	63.8	100.0
Carson City	17,396	120.6	45.0	75.2
Cass City	9,209	131.1	56.6	74.1
Charlevoix	15,126	181.3	75.9	104.6
Charlotte	24,486	135.9	56.6	78.4
Cheboygan	14,962	149.9	59.9	89.3
Chelsea	18,874	160.6	54.6	103.8
Clare	28,093	222.0	96.9	124.5
Coldwater	40,413	149.7	52.1	97.0
Crystal Falls	4,804	(187.5)	(68.8)	(117.9)
Dearborn	156,394	201.7	72.4	128.3
Deckerville	6,871	113.6	45.1	68.3
Detroit	1,177,213	178.0	61.2	115.6
Dowagiac	14,921	162.9	67.1	94.7
Escanaba	38,871	168.7	63.2	104.9
Farmington Hills	90,061	205.0	69.7	133.4
Flint	475,811	161.8	71.5	88.6
Frankfort	3,168	(279.2)	(89.7)	(188.6)
Fremont	23,544	151.4	56.6	92.1
Garden City	67,969	222.0	80.7	139.7
Gaylord	21,877	235.0	90.7	140.0
Gladwin	11,790	249.8	95.8	153.4
Grand Haven	42,500	177.4	56.9	120.4
Grand Rapids	652,385	148.7	54.5	93.8
Grayling	28,928	214.5	88.4	125.0
Greenville	13,153	202.7	82.4	119.8
Grosse Pointe	51,378	130.4	34.1	95.2
Hancock	23,539	147.2	68.9	78.1
Harbor Beach	5,536	187.4	74.6	112.4
Hastings	39,520	146.0	62.6	83.0
Hillsdale	34,346	167.1	63.8	102.8
Holland	88,225	142.8	44.6	98.1

Hospital Service Area	Resident Population	All Physicians	Primary Care Physicians	Specialists
Howell	41,178	168.5	56.3	111.2
Ionia	22,975	117.1	43.5	70.6
Iron Mountain	39,647	181.5	65.4	115.6
Iron River	8,921	175.1	62.0	111.8
Ironwood	22,405	157.6	71.2	85.7
Ishpeming	11,725	158.8	59.1	98.8
Jackson	155,656	154.6	51.3	102.8
Kalamazoo	274,951	176.7	64.3	111.1
Lakeview	6,000	113.5	47.5	65.8
L'Anse	9,894	154.5	76.4	77.0
Lansing	403,887	175.1	66.6	107.2
Lapeer	74,527	141.1	60.6	79.2
Laurium	12,722	188.1	77.5	110.0
Livonia	170,245	230.6	79.5	149.0
Ludington	25,989	182.0	72.3	106.6
Madison Heights	52,414	256.1	90.8	164.3
Manistee	20,195	168.2	64.0	103.5
Manistique	9,668	199.7	70.5	128.4
Marlette	7,277	115.8	38.4	76.7
Marquette	64,716	121.3	42.5	78.1
Marshall	22,525	135.5	61.7	73.2
Midland	73,291	159.5	62.1	97.2
Milford	84,255	142.7	50.1	91.5
Monroe	83,568	159.8	57.0	102.6
Mount Clemens	316,640	155.3	58.6	96.3
Mount Pleasant	41,455	129.0	58.5	70.1
Munising	5,066	172.0	75.3	95.8
Muskegon	172,932	145.4	59.5	85.7
Newberry	7,521	252.3	103.6	147.6
Niles	55,328	163.3	65.7	95.6
Northport	1,663	(191.1)	(75.1)	(115.2)
Ontonagon	5,090	195.6	76.5	118.3
Owosso	61,109	160.6	66.1	91.4
Paw Paw	28,738	139.2	54.6	83.7
Petoskey	62,514	159.1	56.3	101.7
Pigeon	6,523	213.8	87.4	125.4
Pontiac	306,985	221.0	74.4	145.8
Port Huron	125,397	144.4	49.8	94.4
Reed City	16,909	207.2	74.8	130.8
Rochester	100,554	187.2	68.6	118.2
Royal Oak	335,803	283.9	94.2	188.3
Saginaw	229,761	137.9	55.5	81.9
Saline	13,356	151.1	50.3	99.9
Sandusky	6,499	180.7	54.7	125.6
Sault Ste Marie	34,126	133.8	61.5	71.9
South Haven	23,447	182.7	60.0	121.8
Southfield	51,405	354.4	124.8	227.3

Hospital Service Area	Resident Population	All Physicians	Primary Care Physicians	Specialists
St Clair	27,663	142.0	53.4	88.3
St Johns	16,472	151.0	67.5	82.8
St Joseph	106,962	152.9	54.0	96.3
Standish	11,090	120.0	50.5	68.8
Sturgis	25,950	155.3	68.4	86.4
Tawas City	33,553	192.4	79.0	112.7
Taylor	70,811	128.9	50.1	78.3
Tecumseh	22,916	155.1	54.5	97.5
Three Rivers	32,083	130.6	50.2	79.8
Traverse City	123,554	188.4	68.9	118.7
Trenton	82,444	126.2	45.8	79.8
Troy	110,595	177.1	70.4	106.0
Warren	238,759	225.4	82.0	142.5
Watervliet	13,163	134.7	53.1	80.3
Wayne	159,077	207.1	80.2	125.3
West Branch	29,742	178.0	65.6	111.6
Wyandotte	146,521	174.0	65.0	107.7
Zeeland	15,649	96.4	40.3	56.0
Ohio				
Akron	448,050	200.7	71.9	126.5
Alliance	49,003	142.6	53.8	88.5
Ashland	39,737	131.7	46.5	82.8
Ashtabula	51,352	161.2	51.7	109.0
Athens	44,152	172.7	68.9	103.4
Barberton	58,441	153.9	56.9	95.1
Barnesville	22,508	139.7	48.6	90.9
Batavia	42,809	159.6	59.0	100.2
Bedford	33,014	204.3	76.5	126.9
Bellaire	22,777	183.1	74.0	109.0
Bellefontaine	44,148	170.6	70.5	99.6
Bellevue	24,011	152.7	60.8	91.7
Bluffton	8,081	134.8	63.2	71.5
Bowling Green	58,997	135.1	57.4	77.5
Bryan	41,316	122.0	59.7	62.0
Bucyrus	21,211	131.9	63.1	68.4
Cadiz	10,563	167.0	63.1	103.3
Cambridge	53,895	161.9	66.0	95.4
Canton	268,826	155.6	53.9	100.6
Chardon	50,047	116.1	43.8	72.0
Chillicothe	74,261	168.6	69.7	98.4
Cincinnati	1,102,793	206.2	70.2	135.3
Circleville	21,875	138.1	65.1	72.3
Cleveland	953,736	240.8	80.1	159.2
Coldwater	37,723	135.7	64.4	70.5
Columbus	1,108,432	158.3	57.5	99.5
Conneaut	18,072	146.2	45.8	100.2
Coshocton	32,878	130.8	51.3	79.0

Hospital Service Area	Resident Population	All Physicians	Primary Care Physicians	Specialists
Dayton	534,433	160.0	62.7	96.4
Defiance	37,492	147.4	51.5	93.7
Delaware	36,873	155.8	57.2	96.2
Dennison	18,574	135.6	54.9	76.2
Dover	53,598	147.7	51.2	95.7
East Liverpool	48,817	137.1	46.7	90.1
Elyria	105,467	136.3	54.3	81.7
Euclid	61,147	248.3	79.6	166.9
Findlay	69,747	133.7	47.1	86.5
Fostoria	22,243	161.7	58.4	103.1
Fremont	43,779	155.3	49.9	105.2
Galion	25,792	171.6	56.1	115.1
Gallipolis	68,718	159.8	64.2	94.9
Garfield Heights	57,965	227.7	66.1	160.6
Geneva	17,673	146.0	52.5	93.0
Georgetown	24,440	180.7	74.5	105.9
Greenfield	9,107	128.7	68.7	59.2
Greenville	43,145	119.6	54.5	64.6
Hamilton	149,045	126.6	41.7	84.2
Hicksville	6,504	117.6	51.6	65.6
Hillsboro	19,825	197.3	70.6	122.1
Ironton	29,285	159.3	52.7	105.4
Kenton	22,059	127.0	49.8	76.8
Kettering	199,811	218.0	79.2	137.1
Lakewood	59,702	183.1	65.0	117.5
Lancaster	74,606	163.3	63.4	98.3
Lima	176,674	128.1	48.1	79.8
Lodi	8,567	143.5	48.1	94.2
Logan	20,448	162.9	61.9	100.0
London	19,971	128.3	60.6	67.2
Lorain	135,692	165.5	60.1	104.6
Loudonville	4,767	(162.1)	(73.6)	(87.4)
Mansfield	115,010	139.2	40.5	98.3
Marietta	60,139	140.5	52.0	88.3
Marion	72,421	164.5	54.9	109.3
Martins Ferry	25,724	122.1	46.8	75.1
Marysville	23,385	153.8	62.3	90.8
Massillon	100,327	123.8	51.8	71.1
Maumee	79,703	156.2	63.6	91.9
Mayfield Heights	61,824	296.2	91.2	203.6
Medina	50,462	147.2	44.4	101.1
Middletown	107,263	154.9	54.8	98.8
Millersburg	30,452	82.2	36.7	45.4
Mount Gilead	14,644	107.7	38.4	68.9
Mount Vernon	55,113	160.3	65.7	93.9
Napoleon	19,250	128.9	48.9	79.6
Nelsonville	15,150	159.4	59.8	99.0

Hospital Service Area	Resident Population	All Physicians	Primary Care Physicians	Specialists
Newark	97,767	146.5	53.5	91.7
Norwalk	41,332	150.2	52.1	97.8
Oberlin	21,501	140.2	68.6	71.4
Oregon	88,211	171.4	68.7	102.5
Orrville	13,821	108.0	57.9	49.7
Oxford	44,301	136.9	56.8	78.3
Painesville	195,446	173.4	61.3	111.3
Parma/Middleburg Hts	280,489	190.6	63.4	125.6
Paulding	13,897	139.1	61.7	76.9
Piqua	45,920	129.8	44.4	85.1
Pomeroy	13,676	124.6	57.4	66.6
Port Clinton	26,825	192.4	68.2	123.9
Portsmouth	97,331	152.3	58.9	90.9
Ravenna	123,332	136.9	53.1	82.6
Salem	70,225	120.3	54.3	65.7
Sandusky	67,299	186.0	63.1	122.6
Shelby	16,207	151.2	67.0	83.8
Sidney	36,536	142.1	59.0	82.7
Springfield	124,437	154.4	49.2	104.4
St Marys	26,598	138.2	56.5	78.9
Steubenville	68,262	143.0	44.6	98.1
Sylvania	39,492	138.5	39.8	98.4
Tiffin	36,226	181.7	53.1	125.9
Toledo	382,633	203.6	68.4	134.9
Troy	50,113	147.2	56.3	90.5
Upper Sandusky	12,766	152.5	61.9	90.1
Urbana	28,018	105.2	46.9	57.9
Van Wert	31,165	114.4	51.6	62.5
Wadsworth	38,426	153.4	73.1	79.2
Warren	181,045	163.2	67.1	95.8
Washington Ct House	25,359	151.4	54.9	95.7
Wauseon	31,811	116.3	53.3	62.8
Waverly	21,717	196.1	78.0	117.4
West Union	22,044	137.4	57.3	79.6
Westlake	51,431	239.3	76.8	161.2
Willard	18,070	125.3	54.5	70.5
Wilmington	44,156	168.1	66.8	98.8
Wooster	67,900	127.2	52.9	73.9
Xenia	53,694	153.5	59.0	94.1
Youngstown	302,953	183.2	70.2	112.3
Zanesville	121,637	124.9	40.7	83.9
Wisconsin				
Amery	11,473	208.5	102.2	105.1
Antigo	24,255	149.6	70.1	75.9
Appleton	165,528	136.3	54.0	82.1
Arcadia	4,707	(177.6)	(95.2)	(82.1)
Ashland	27,562	202.3	88.4	113.2

Hospital Service Area	Resident Population	All Physicians	Primary Care Physicians	Specialists	Hospital Service Area	Resident Population	All Physicians	Primary Care Physicians	Specialists
Baldwin	8,876	132.7	76.3	55.6	Monroe	37,602	177.5	64.6	112.4
Baraboo	25,198	177.4	81.7	95.1	Neenah	58,629	160.5	50.8	108.8
Barron	13,460	177.1	87.3	83.7	Neillsville	4,904	(201.1)	(71.8)	(129.2)
Beaver Dam	42,292	178.9	66.1	112.3	New London	17,274	134.8	67.7	67.0
Beloit	56,951	160.1	54.5	105.2	New Richmond	17,797	140.5	63.3	76.1
Berlin	35,674	162.1	60.1	101.5	Oconomowoc	40,173	197.9	70.6	125.2
Black River Falls	13,272	157.8	84.3	73.2	Oconto Falls	10,389	158.0	82.6	74.6
Bloomer	8,511	174.2	80.7	92.2	Osceola	2,062	(378.0)	(161.9)	(186.2)
Boscobel	6,750	154.3	78.9	74.9	Oshkosh	79,878	157.9	54.9	102.8
Brookfield	35,205	245.7	66.7	176.7	Park Falls	14,710	158.7	72.5	86.1
Burlington	45,794	134.6	49.1	85.1	Phelps	4,062	(254.5)	(111.8)	(126.3)
Chilton	13,320	133.1	59.4	73.4	Platteville	14,544	119.7	50.4	64.5
Chippewa Falls	38,098	152.0	67.5	82.2	Plymouth	14,408	136.3	62.4	73.7
Columbus	11,609	138.8	56.6	81.6	Port Washington	35,090	128.9	53.6	75.1
Cudahy	59,130	146.7	47.1	99.2	Portage	24,536	191.7	75.8	115.0
Cumberland	10,734	161.4	65.1	95.2	Prairie Du Chien	15,348	142.9	63.4	79.1
Darlington	6,348	147.4	64.6	82.0	Prairie Du Sac	20,845	171.0	88.1	82.3
Dodgeville	17,088	172.0	81.9	89.1	Racine	145,112	147.5	45.3	101.5
Durand	8,320	204.6	103.7	100.3	Reedsburg	14,075	178.2	73.5	104.1
Eagle River	7,765	225.2	113.9	110.5	Rhineland	39,410	172.0	67.8	103.9
Eau Claire	105,310	165.1	57.4	106.8	Rice Lake	22,779	181.8	87.8	93.1
Edgerton	9,749	164.8	70.9	93.2	Richland Center	17,519	160.1	72.5	87.1
Elkhorn	46,493	184.8	71.6	112.6	Ripon	10,694	93.4	47.8	45.3
Fond Du Lac	84,518	149.5	54.9	94.5	River Falls	21,772	155.6	81.9	73.1
Fort Atkinson	57,842	156.3	75.4	80.4	Shawano	27,822	135.4	64.2	70.8
Friendship	10,690	187.2	60.6	125.9	Sheboygan	96,670	146.0	49.6	96.3
Grantsburg	8,875	213.9	94.2	117.6	Shell Lake	9,919	165.4	74.5	88.6
Green Bay	248,264	117.8	44.0	72.8	Spooner	8,842	183.4	93.7	89.0
Hartford	26,138	101.1	47.1	53.8	St Croix Falls	18,606	199.1	95.4	98.2
Hayward	11,378	181.4	82.6	97.9	Stanley	8,524	182.8	76.5	105.5
Hillsboro	8,759	142.3	71.6	70.4	Stevens Point	65,262	158.6	58.2	100.3
Hudson	18,199	111.5	64.2	46.8	Stoughton	21,455	149.9	64.3	85.0
Janesville	72,515	176.4	63.3	111.8	Sturgeon Bay	22,057	186.7	62.7	123.3
Kenosha	119,657	158.6	50.3	108.0	Tomah	15,440	184.6	85.8	98.4
Kewaunee	6,262	82.6	31.4	50.6	Two Rivers	20,013	140.7	75.3	64.7
La Crosse	175,351	161.6	57.6	103.5	Viroqua	20,473	157.6	75.5	81.7
Ladysmith	16,156	154.2	73.1	80.8	Watertown	25,240	160.5	71.9	88.1
Lancaster	11,411	146.7	66.4	79.8	Waukesha	172,054	165.7	63.9	101.0
Madison	360,310	199.2	72.8	125.2	Waupaca	21,458	183.2	85.2	97.7
Manitowoc	49,792	160.0	56.1	102.1	Waupun	14,175	126.7	53.9	72.5
Marinette	49,674	138.6	55.3	81.1	Wausau	95,490	168.8	61.9	106.8
Marshfield	82,320	169.1	48.9	120.2	West Allis	87,372	193.0	62.6	129.2
Mauston	17,009	181.1	77.5	103.1	West Bend	50,585	155.1	67.4	87.4
Medford	14,849	148.4	60.8	87.5	Whitehall	8,503	196.3	86.4	109.3
Menomonee Falls	64,518	149.2	49.0	99.8	Wild Rose	2,127	(315.2)	(138.4)	(175.6)
Menomonie	33,129	157.3	78.3	76.0	Wisconsin Rapids	44,084	175.8	68.7	107.0
Merrill	21,244	166.1	77.7	88.2	Woodruff	17,526	248.1	103.9	143.9
Milwaukee	886,823	214.2	69.5	143.8					

PART FIVE

The Utilization of Hospitals for Medical and Surgical Conditions

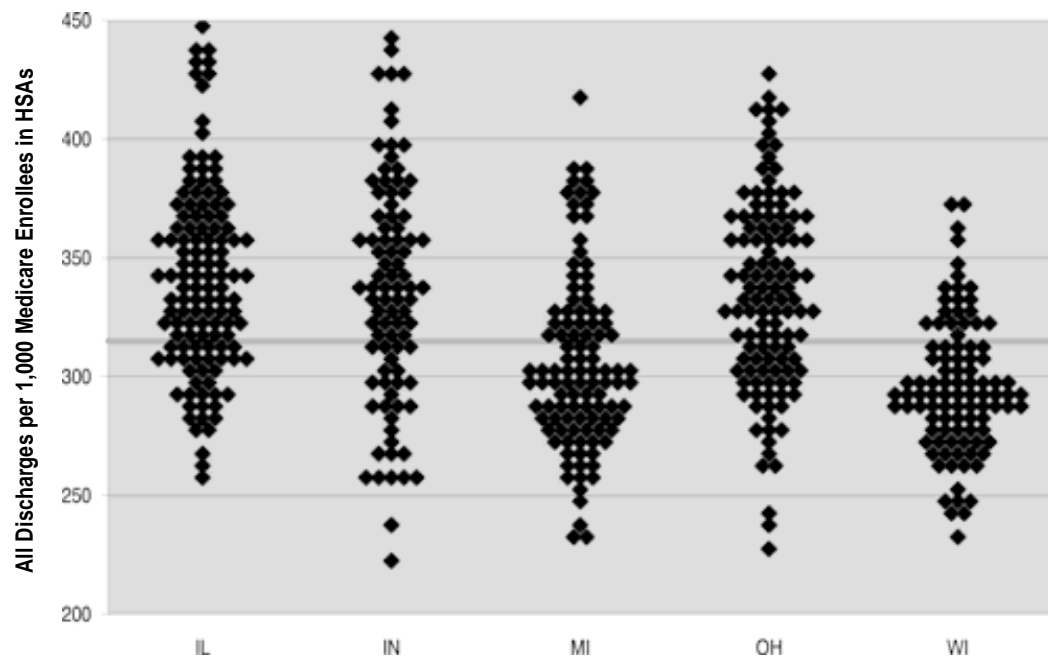
This section of the Atlas provides overall measures of the use of hospitals for medical and surgical discharges, as well as procedure rates for selected conditions.

As described in Part Two of the national volume of the Dartmouth Atlas of Health Care, variations in the rates of use of hospitals for medical discharges are closely related to the capacity of the hospital industry in local and regional markets. Supply-related variations in the use of specific surgical procedures, while linked to the quantity of resources, also reflect scientific uncertainty about the outcomes of alternative ways of treating common conditions — whether to treat coronary artery disease medically or surgically, for example. These variations also reflect a common failure to adequately involve patients in making decisions about treatment choices. Part Six of the national volume of the Atlas discusses these sources of variation in more detail to raise the question “Which rate is right?” The wide variations in surgical procedure rates in the region make clear the relevance of this question for the Great Lakes States.

This section of the Atlas is based on data from the Medicare program for 1992-93.

Total Medicare Discharges

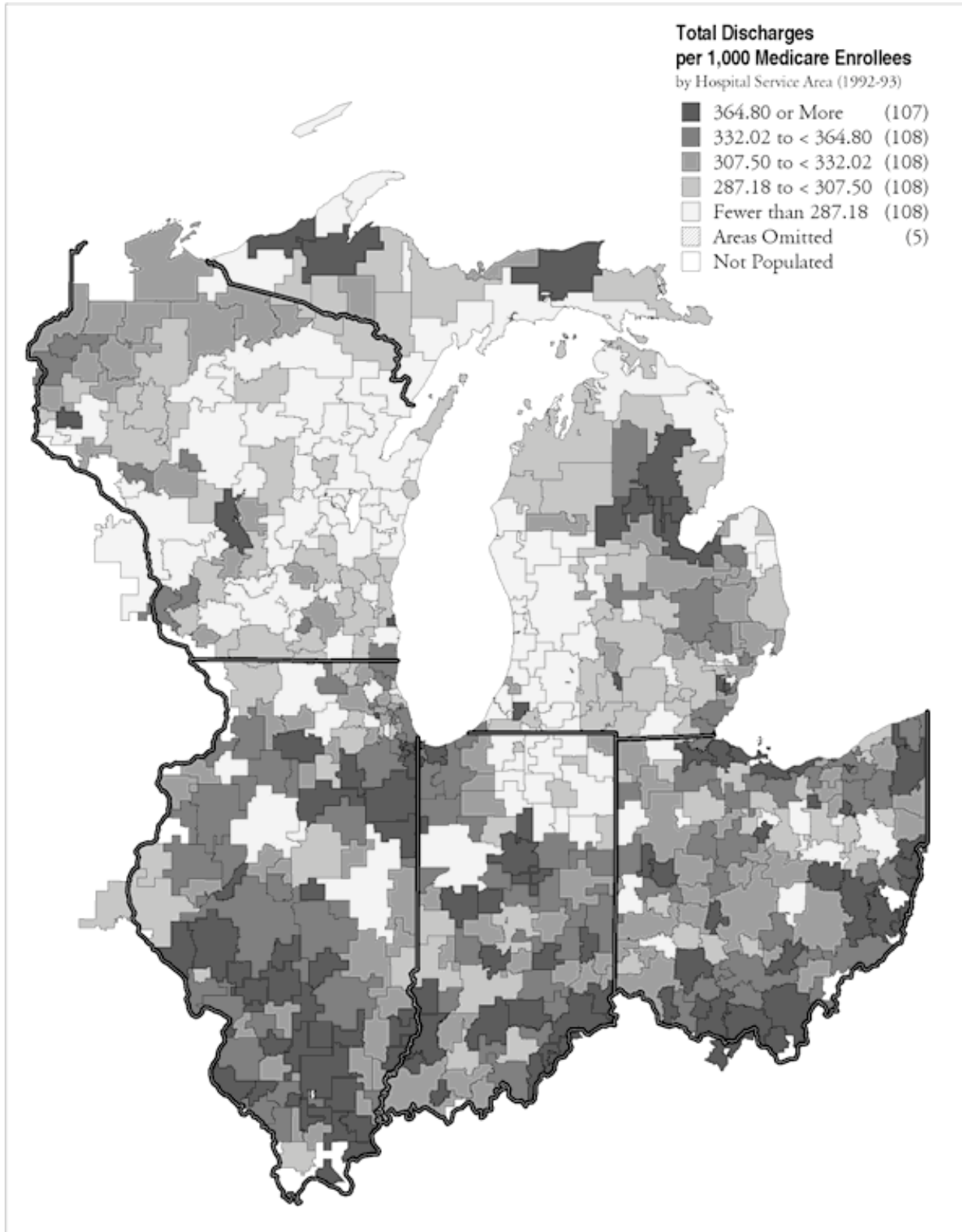
The total numbers of discharges per thousand Medicare enrollees in the Great Lakes States varied from fewer than 235 to more than 425. Among the region's larger hospital service areas, the numbers of discharges were above the national average of 315 per thousand enrollees in Chicago (362.8); Toledo, Ohio (356.3); Anderson, Indiana (353.1); Flint, Michigan (349.5); Pontiac, Michigan (342.5); and Cleveland (341.2). Dayton, Ohio (311.4); Milwaukee, (305.9); Indianapolis (296.7); and Grand Rapids, Michigan (233.6) were below the national average.



The Great Lakes States. The gray horizontal line represents the United States average.

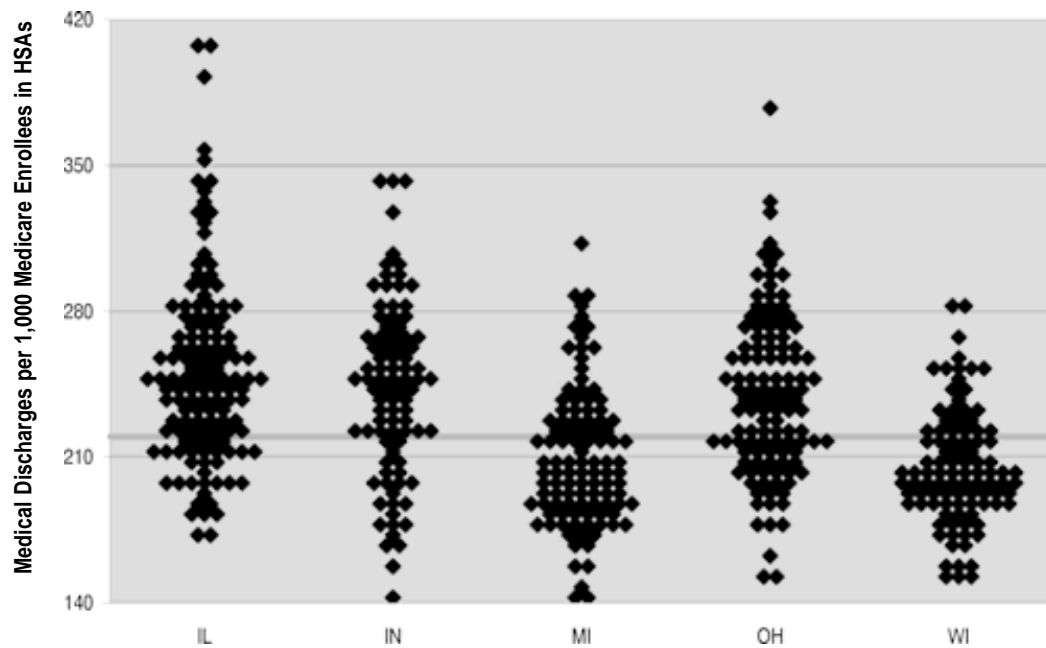
Figure 5.1. All Discharges per 1,000 Medicare Enrollees in Hospital Service Areas in the Great Lakes States (1992-93)

The number of discharges per thousand Medicare enrollees varied by a factor of more than 1.9. Each point represents one hospital service area.



Medicare Discharges for Medical Conditions

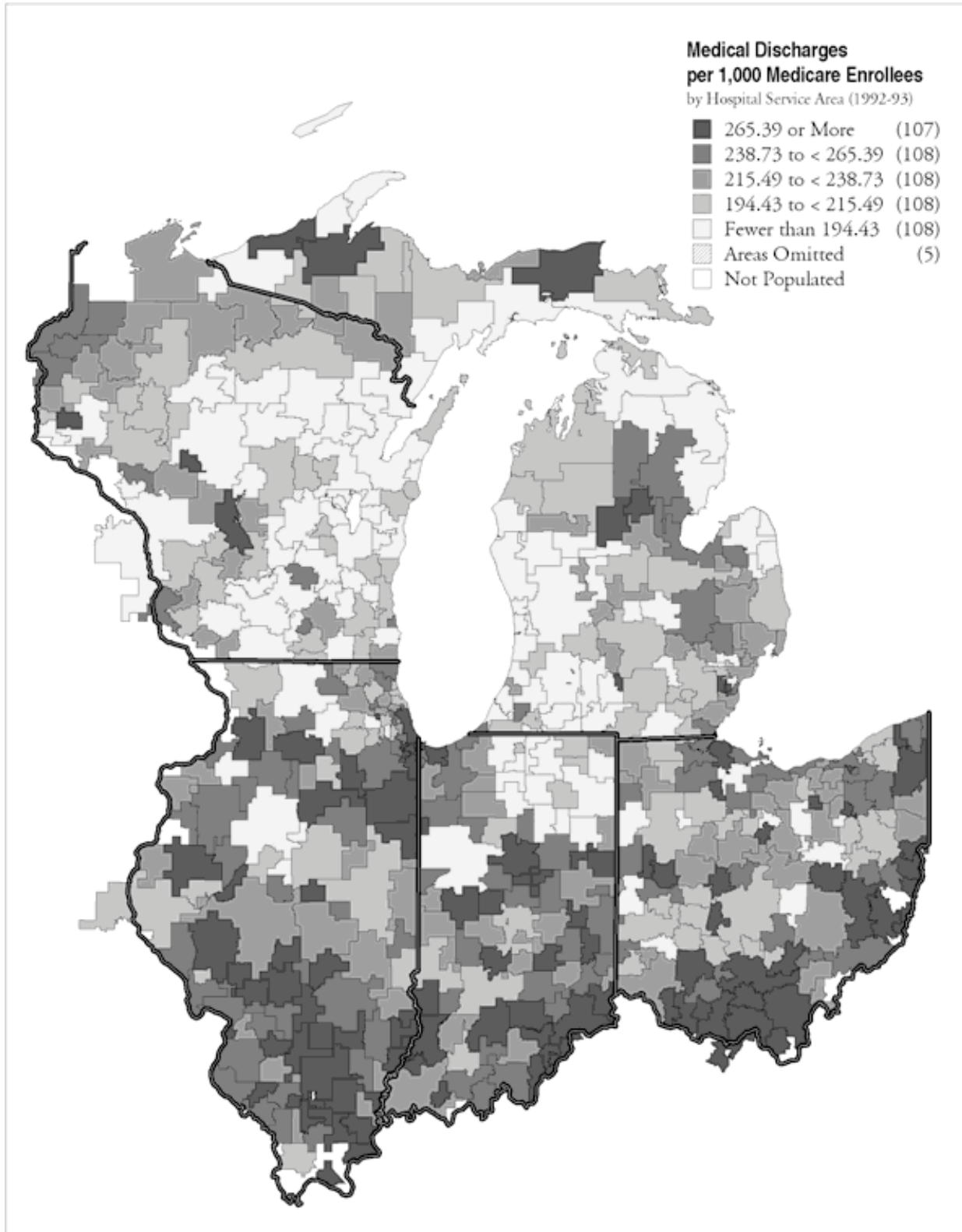
The number of discharges for medical conditions per thousand Medicare enrollees in the Great Lakes States varied from fewer than 150 to more than 400. Among the region's larger hospital service areas, the numbers of discharges for medical conditions were above the national average of 219.8 in Chicago (265.4); Anderson, Indiana (261.4); Toledo, Ohio (248.6); Pontiac, Michigan (246.3); Flint, Michigan (242.3); and Cleveland (240.2). Columbus, Ohio (214.0); Dayton, Ohio (209.6); Milwaukee (204.4); Indianapolis (202.5); and Grand Rapids, Michigan (146.3) were all below the national average number of discharges for medical conditions.



The Great Lakes States. The gray horizontal line represents the United States average.

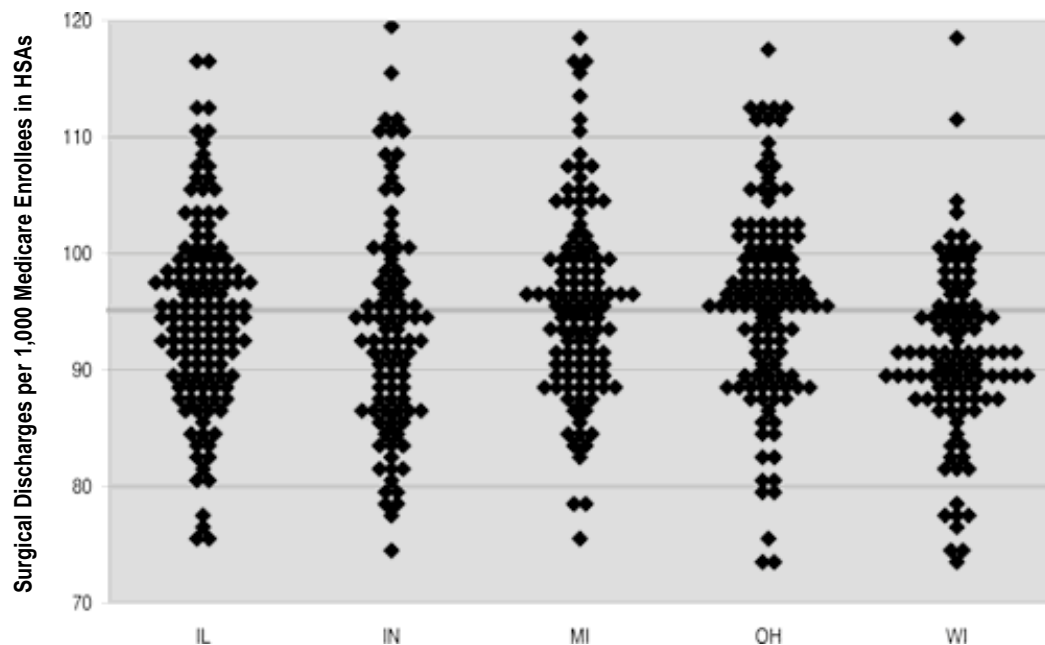
Figure 5.2. Medical Discharges per 1,000 Medicare Enrollees in Hospital Service Areas in the Great Lakes States (1992-93)

The number of discharges for medical conditions per thousand Medicare enrollees varied by a factor of more than 2.6. Each point represents one hospital service area.



Medicare Discharges for Surgical Procedures

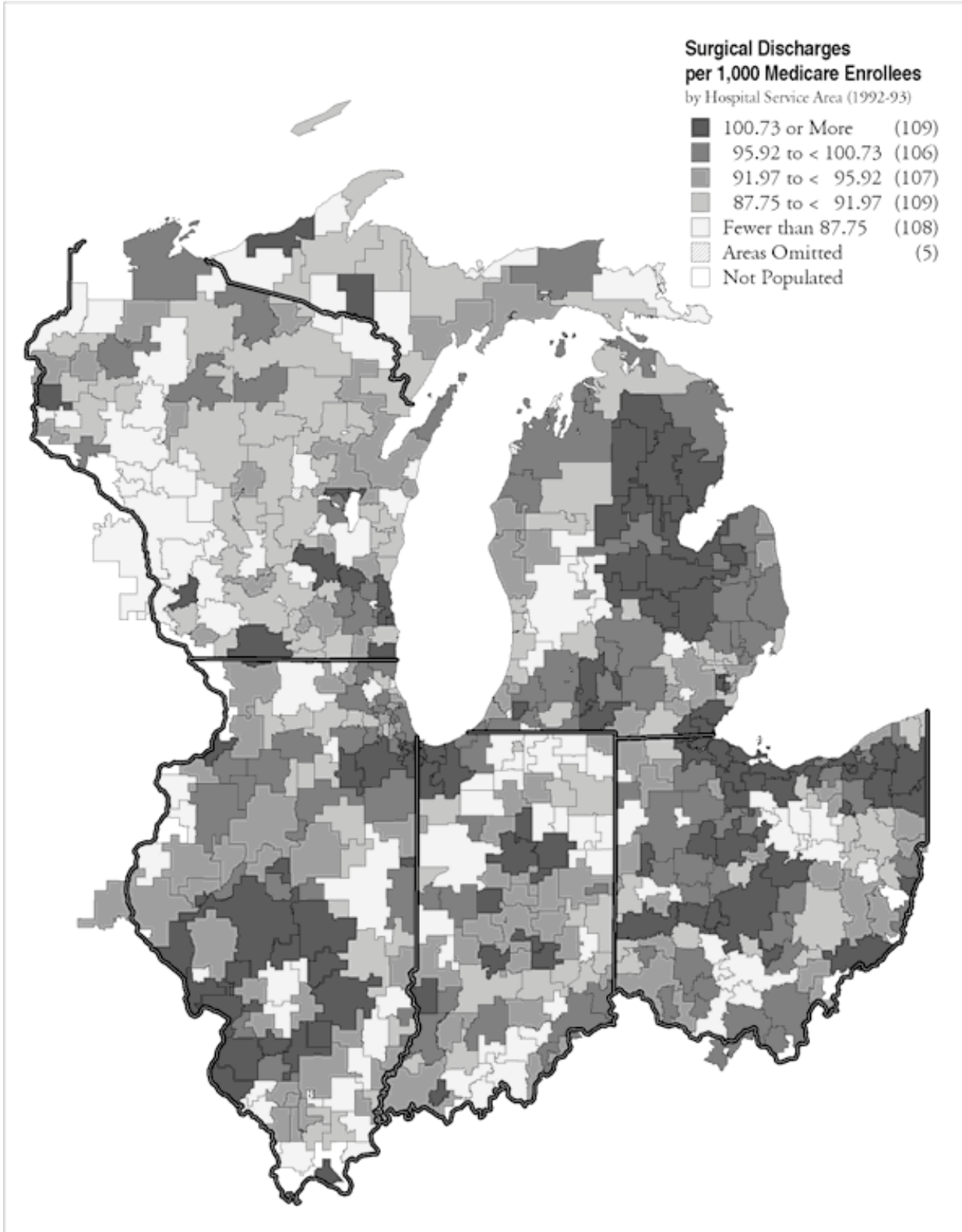
The number of surgical discharges per thousand Medicare enrollees in the Great Lakes States ranged from fewer than 80 to more than 110. Among the region's larger hospital service areas, the numbers of surgical discharges were above the national average of 95.1 in Toledo, Ohio (107.7); Flint, Michigan (107.2); Columbus, Ohio (101.8); Dayton, Ohio (101.8); Milwaukee (101.7); and Cleveland (100.9). Pontiac, Michigan (96.4); Chicago (96.4); and Indianapolis (94.3) were close to the national average. Detroit, Michigan (92.9). Anderson, Indiana (92.0); and Grand Rapids, Michigan (87.1) were slightly below it.



The Great Lakes States. The gray horizontal line represents the United States average.

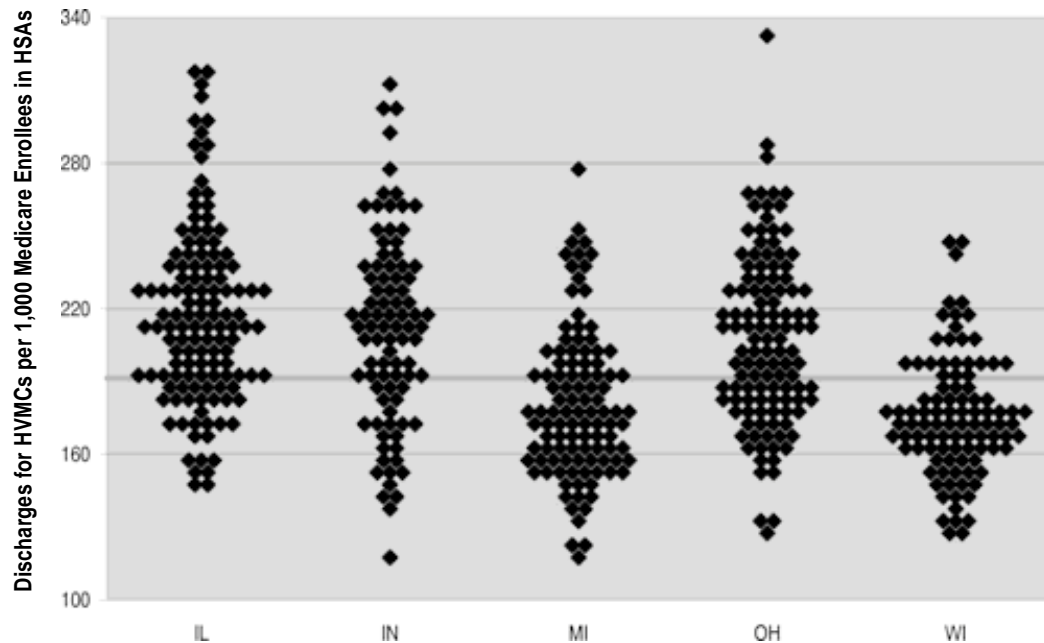
Figure 5.3. Surgical Discharges per 1,000 Medicare Enrollees in Hospital Service Areas in the Great Lakes States (1992-93)

The number of surgical discharges per thousand Medicare enrollees varied by a factor of more than 1.6. Each point represents one hospital service area.



Medicare Discharges for High Variation Medical Conditions

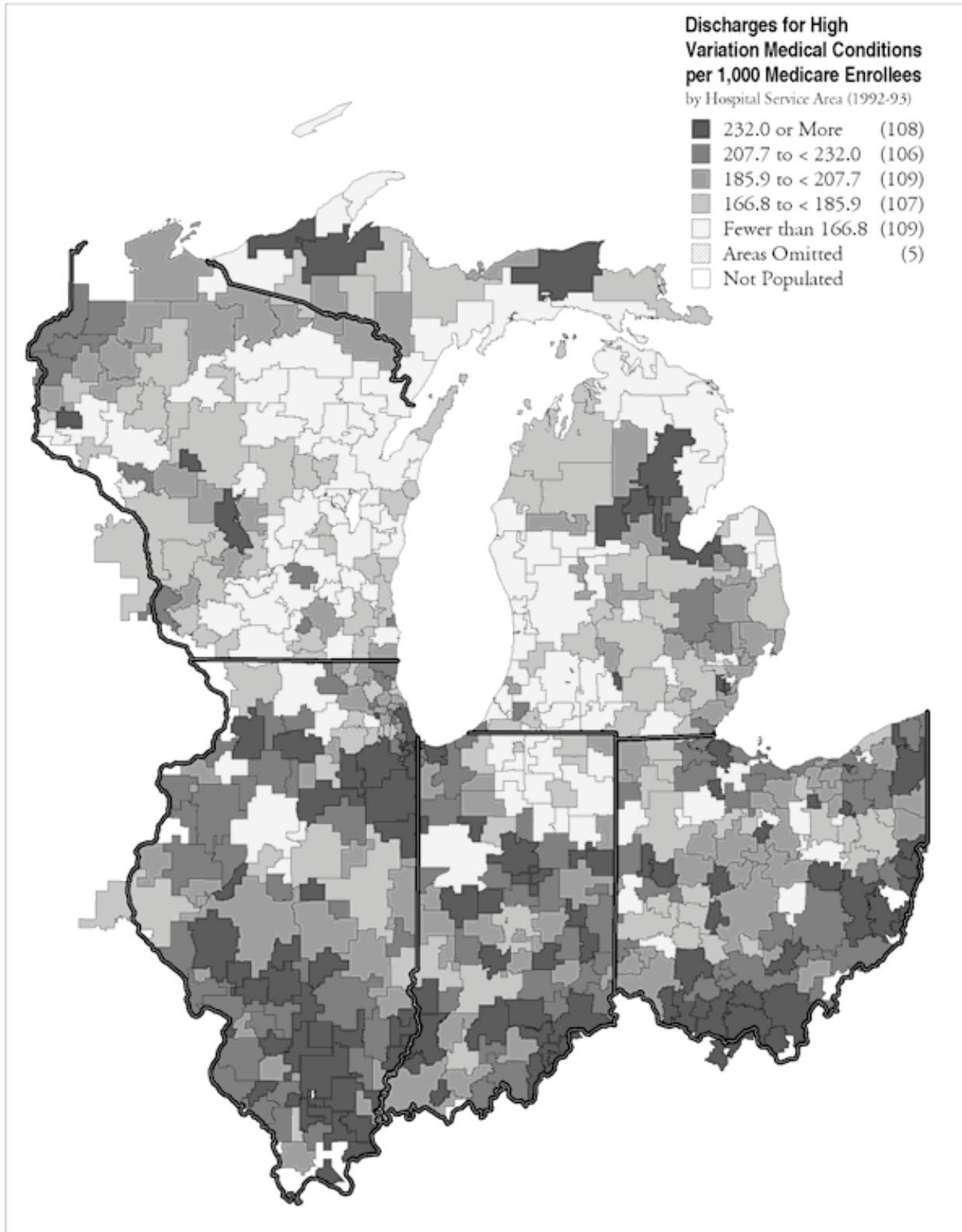
More than 80% of medical admissions are for the treatment of what have been described as “high variation medical conditions,” including problems such as pneumonia, chronic obstructive pulmonary disease, gastroenteritis, and congestive heart failure. Residents of areas with higher hospital capacity experienced greater use of hospital care, particularly for high variation medical conditions. Among the larger hospital service areas in the Great Lakes States, the numbers of discharges for high variation medical conditions were above the national average of 191.3 in Chicago (234.7); Anderson, Indiana (227.7); and Toledo, Ohio (217.6). Columbus, Ohio (186.7); Dayton, Ohio (183.2); Milwaukee (179.9); Indianapolis (177.8); and Grand Rapids, Michigan (123.6) were below the national average.



The Great Lakes States. The gray horizontal line represents the United States average.

Figure 5.4. Discharges for High Variation Medical Conditions per 1,000 Medicare Enrollees in Hospital Service Areas in the Great Lakes States (1992-93)

Discharges for high variation medical conditions per thousand Medicare enrollees varied by a factor of more than 2.7. Each point represents one hospital service area.



Contribution of Discharge Rate and Average Length of Stay to Patient Days of Hospitalization for High Variation Medical Conditions

As shown in Part Two of the national Atlas, the rates of hospitalization for high variation medical conditions in hospital service areas are closely associated with the numbers of beds per thousand residents. Greater numbers of available beds reduced the threshold for admission and re-admission. Although health services research has consistently shown that admission policies are more important than length of stay in determining aggregate hospital resource use, length of stay continues to be used as a measure of hospital efficiency. Figures 5.5 and 5.6 illustrate the importance of discharge rates as determinants of hospital use for high variation medical conditions. Most of the variation in bed use was associated with the decision to admit (as measured by discharge rate) rather than decisions on how long to keep patients in the hospital.

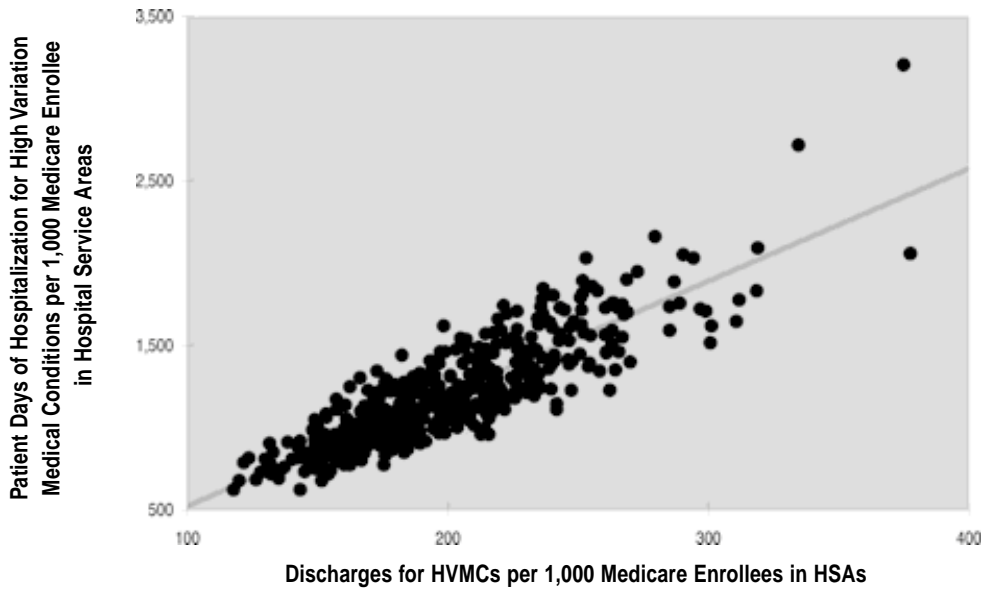


Figure 5.5. The Relationship Between Total Hospital Days and Discharge Rate for High Variation Medical Conditions in Hospital Service Areas in the Great Lakes States

Most of the variation in hospital days for high variation medical conditions among hospital service areas is associated with differences in discharge rates. ($R^2=.74$)

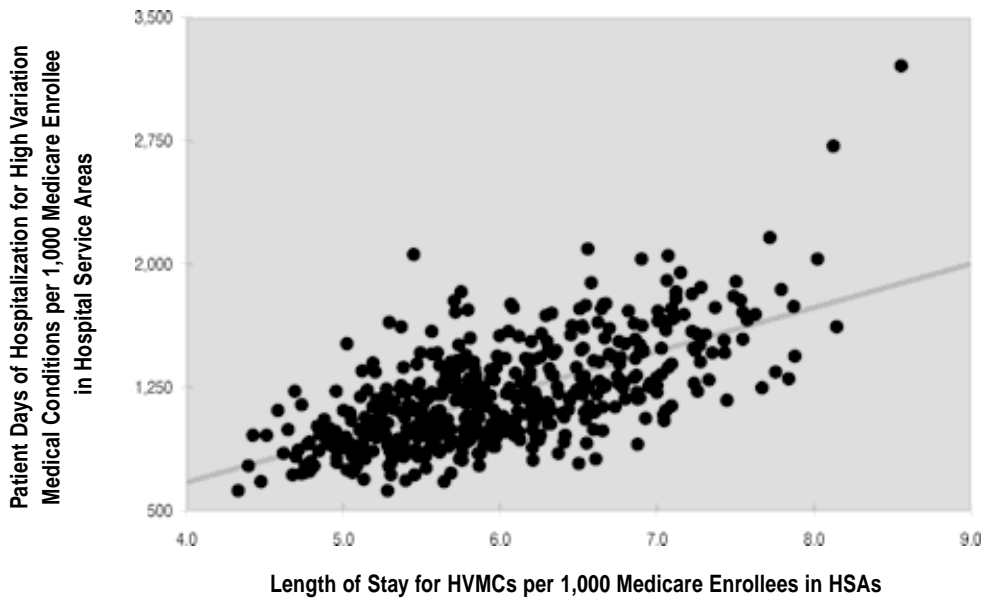


Figure 5.6. The Relationship Between Total Hospital Days and Average Length of Stay (in Days) for High Variation Medical Conditions in Hospital Service Areas in the Great Lakes States

The average length of stay explains less of the variation in bed use for high variation medical conditions among hospital service areas ($R^2=.42$) than does the area's discharge rate.

Benchmarking: Discharges for Surgical Procedures

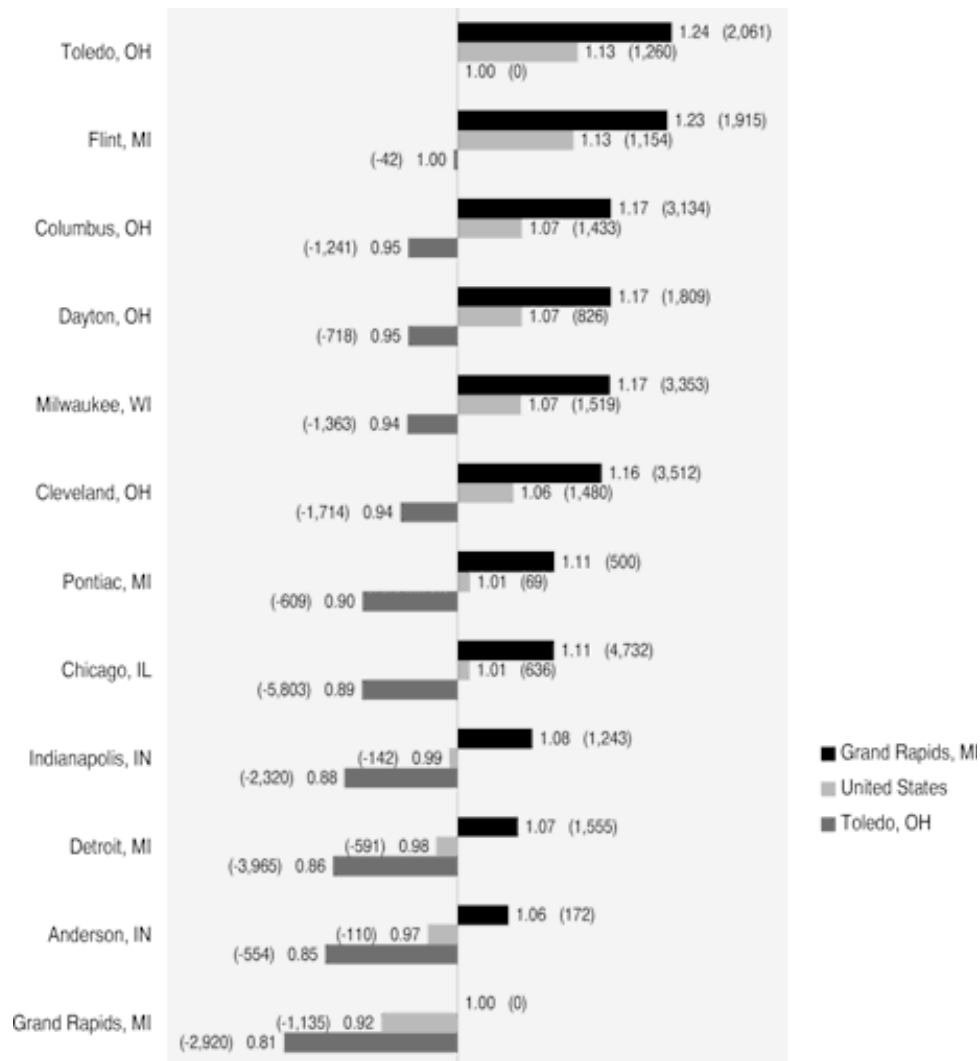


Figure 5.7. Discharges for Surgical Procedures per 1,000 Medicare Enrollees in Selected Hospital Service Areas in the Great Lakes States Compared to the Highest and Lowest Ranked Selected Hospital Service Areas (1992-93)

The figure gives the ratio of discharges for surgical procedures in selected hospital service areas to the lowest and the highest ranked areas. It also compares each selected area to the U.S. average. The number of surgical discharges above (+) or below (-) the number predicted by the experience in the benchmark area for 1992-93 is in parentheses. For example, the number of surgical discharges per thousand Medicare enrollees allocated to the residents of Toledo, Ohio was 1.24 times higher than the number allocated to residents of Grand Rapids, Michigan. If the level of hospitalization of the Grand Rapids benchmark in 1992-93 had prevailed, 2,061 fewer discharges would have occurred among residents of Toledo.

Benchmarking: Discharges for Surgical Procedures

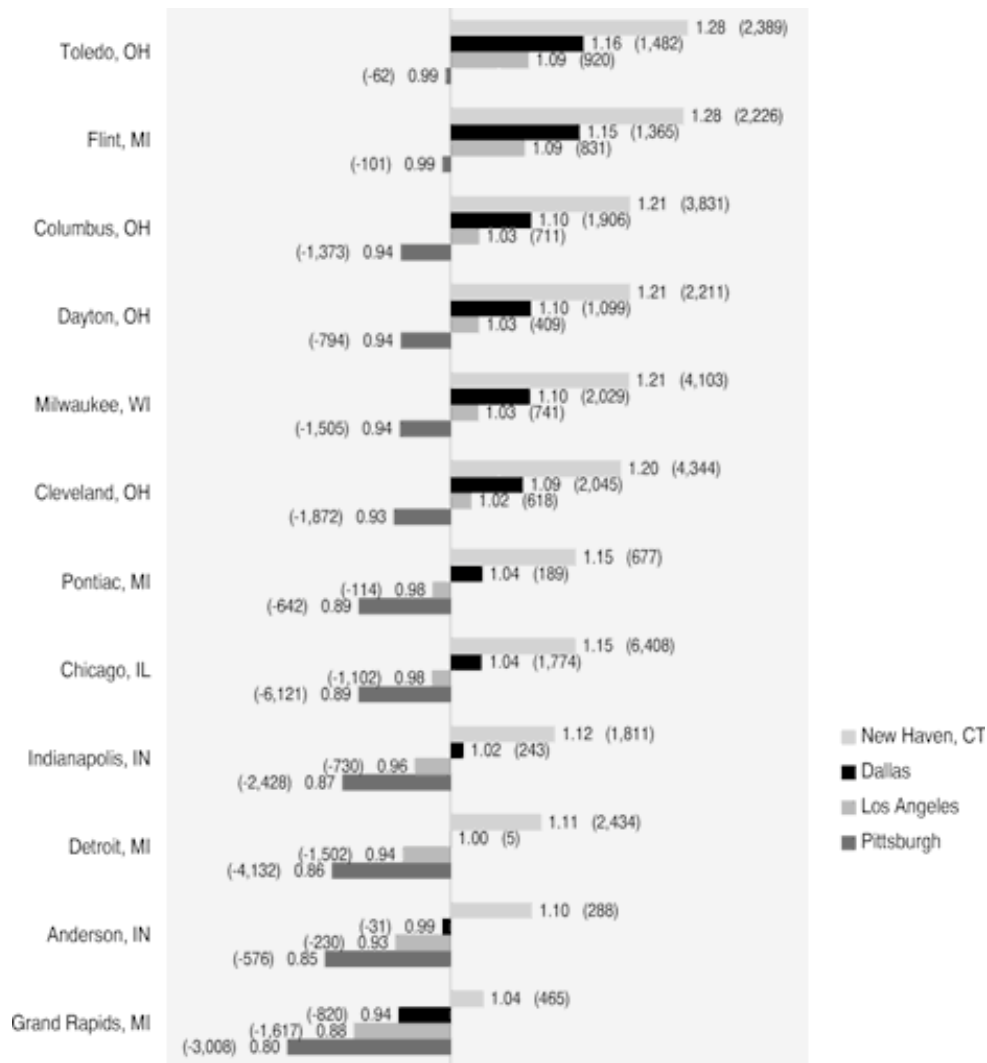


Figure 5.8. Discharges for Surgical Procedures per 1,000 Medicare Enrollees in Selected Hospital Service Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. (1992-93)

The figure gives the ratio of discharges for surgical procedures in selected hospital service areas in the Great Lakes States to other areas. The number of surgical discharges above (+) or below (-) the number predicted by the experience in the benchmark area is in parentheses. For example, the number of surgical discharges per thousand Medicare enrollees allocated to the residents of Toledo, Ohio was 1.28 times higher than the number allocated to residents of New Haven, Connecticut. If the level of hospitalization of the New Haven benchmark in 1992-93 had prevailed, 2,389 fewer discharges would have occurred among residents of Toledo. If the Pittsburgh benchmark had prevailed, 62 additional discharges would have occurred among residents of Toledo.

Benchmarking: Discharges for High Variation Medical Conditions

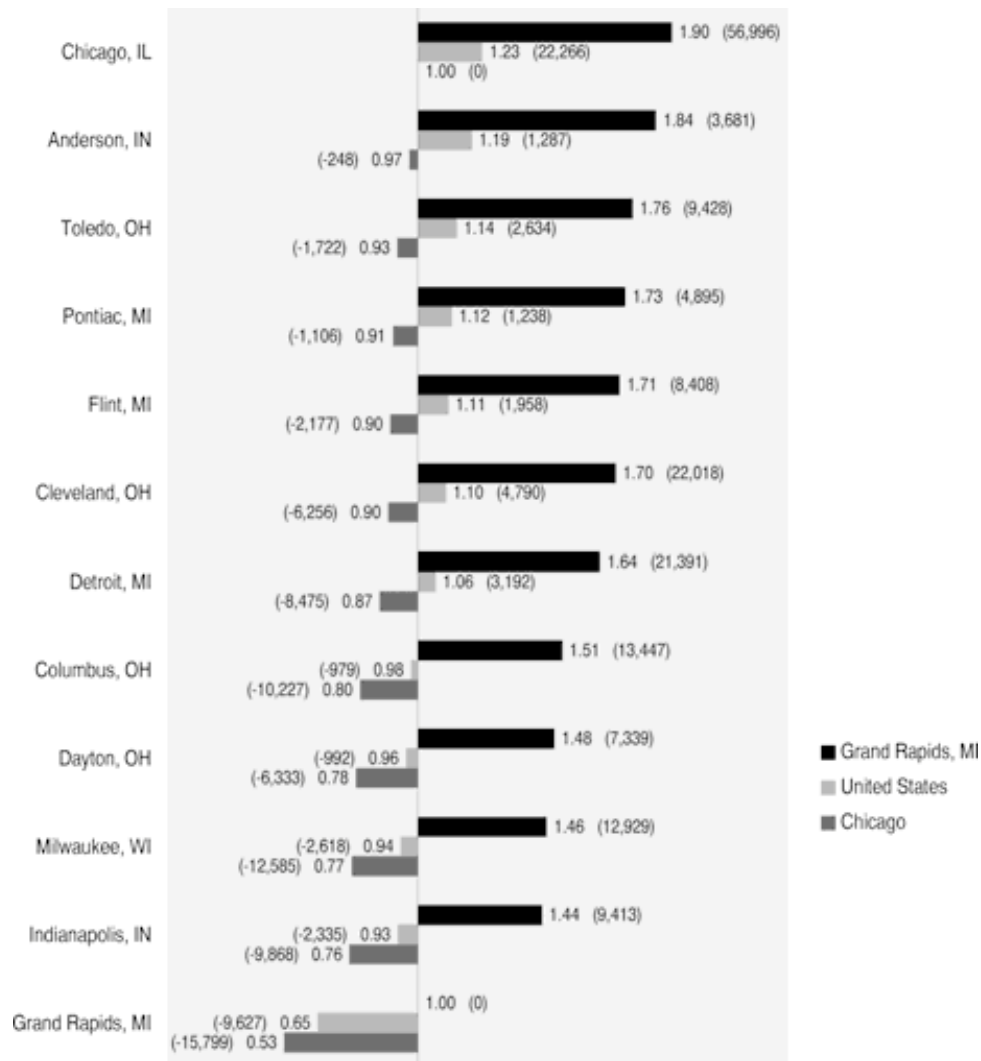


Figure 5.9. Discharges for High Variation Medical Conditions per 1,000 Medicare Enrollees in Selected Hospital Service Areas in the Great Lakes States Compared to the Highest and Lowest Ranked Selected Hospital Service Areas (1992-93)

The figure gives the ratio of discharges for high variation medical conditions in selected hospital service areas to the lowest and the highest ranked areas. It also compares each selected area to the U.S. average. The number of discharges for high variation medical conditions above (+) or below (-) the number predicted by the experience in the benchmark area for 1992-93 is in parentheses. For example, the number of discharges per thousand Medicare enrollees allocated to the residents of Chicago was 1.90 times higher than the number allocated to residents of Grand Rapids, Michigan. If the level of hospitalization of the Grand Rapids benchmark in 1992-93 had prevailed, 56,996 fewer discharges would have occurred among Chicago residents.

Benchmarking: High Variation Medical Conditions

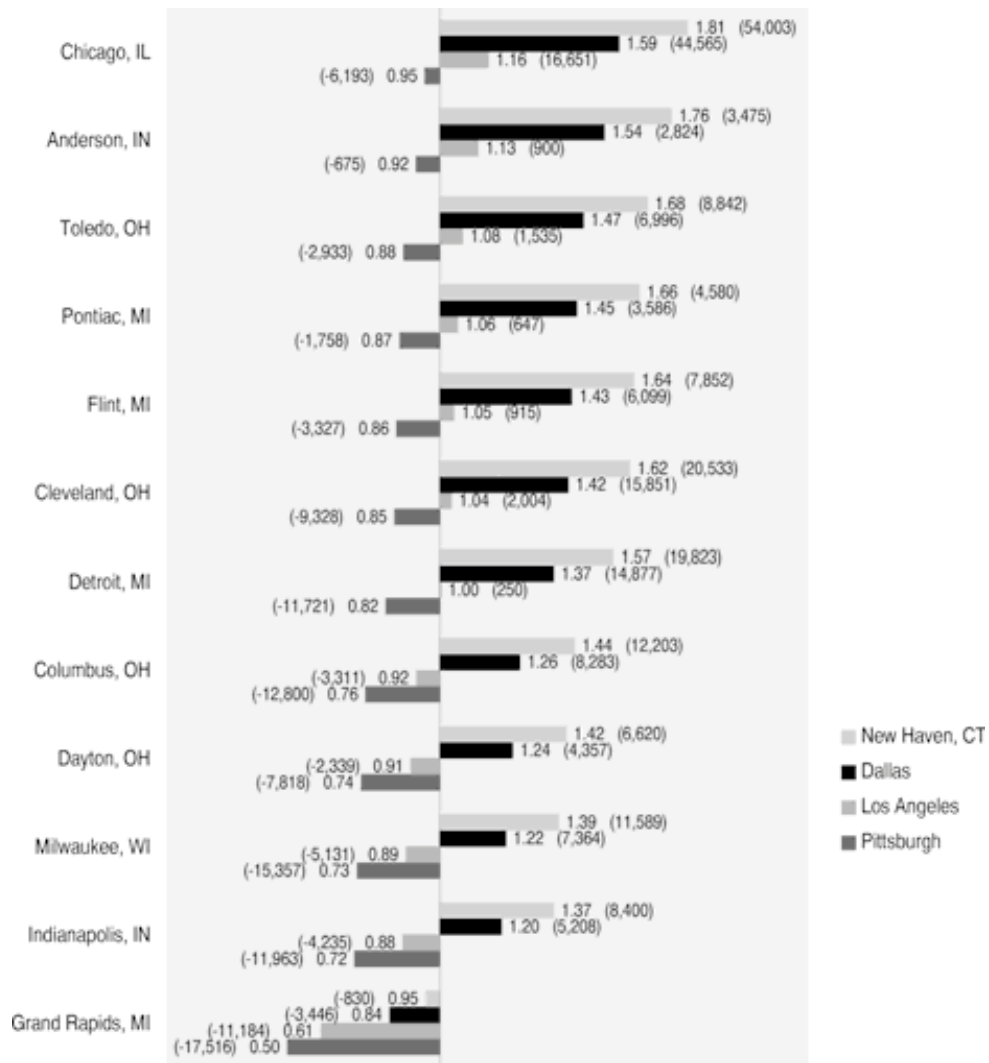
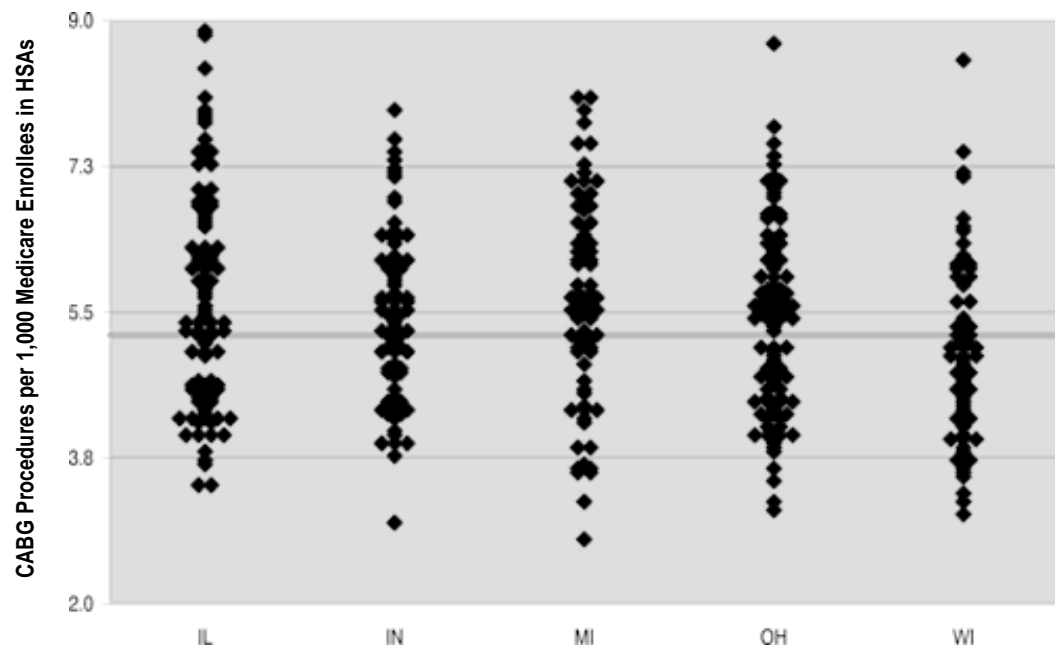


Figure 5.10. Discharges for High Variation Medical Conditions per 1,000 Medicare Enrollees in Hospital Service Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. (1992-93)

The figure gives the ratio of discharges for high variation medical conditions in selected hospital service areas in the Great Lakes States to other areas. The number of discharges for high variation medical conditions above (+) or below (-) the number predicted by the experience in the benchmark area is in parentheses. For example, the number of discharges per thousand Medicare enrollees allocated to the residents of Chicago was 1.81 times higher than the number allocated to Medicare enrollees in New Haven, Connecticut. If the level of hospitalization of the New Haven benchmark in 1992-93 had prevailed, 54,003 fewer discharges would have occurred among Medicare enrollees in Chicago. If the Pittsburgh benchmark had prevailed, 6,193 additional discharges would have occurred among Medicare enrollees in Chicago.

Coronary Artery Bypass Grafting

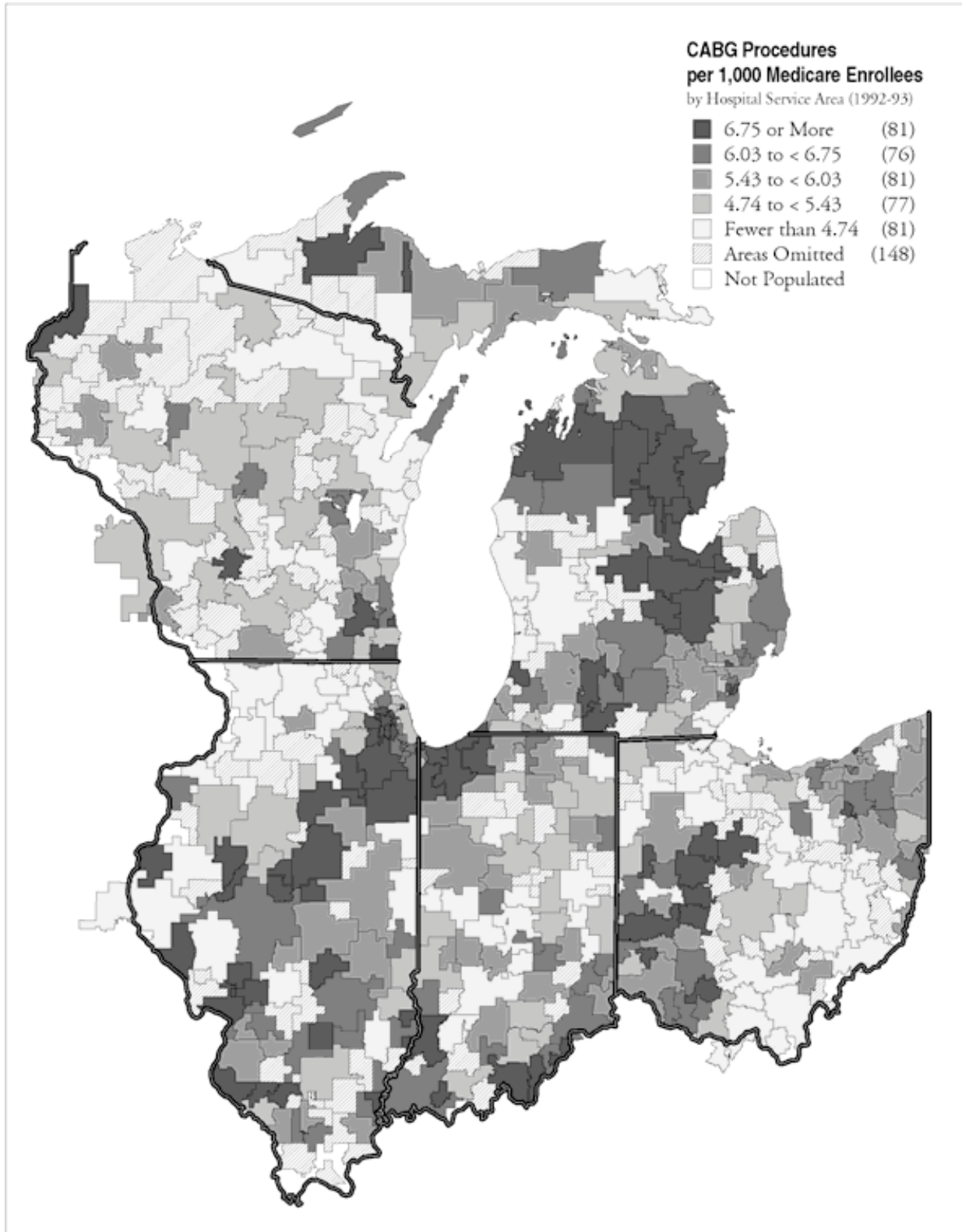
Rates of coronary artery bypass grafting per thousand Medicare enrollees in the Great Lakes States ranged from fewer than 3.0 to more than 8.5. Among the region's larger hospital service areas, rates of coronary artery bypass grafting were substantially higher than the national average of 5.2 in Joliet, Illinois (8.9); Saginaw, Michigan (8.1); Gary, Indiana (7.2); and Dayton, Ohio (7.1). Rates were below the national average in Columbus, Ohio (4.7); Indianapolis (4.6); Grand Rapids, Michigan (4.3); and Rockford, Illinois (4.2).



The Great Lakes States. The gray horizontal line represents the United States average.

Figure 5.11. Rates of Coronary Artery Bypass Grafting Procedures per 1,000 Medicare Enrollees in Hospital Service Areas in the Great Lakes States (1992-93)

Rates of coronary artery bypass grafting per thousand Medicare enrollees varied by a factor of more than 3.1. Each point represents one hospital service area.



Percutaneous Transluminal Coronary Angioplasty

Rates of angioplasty per thousand Medicare enrollees in the Great Lakes States ranged from fewer than 2.2 to more than 13.0. Among the region's larger hospital service areas, rates of angioplasty were substantially higher than the national average of 4.9 per thousand in Saginaw, Michigan (9.1); and Milwaukee (9.0). Gary, Indiana (7.1); Rockford, Illinois (6.6); Indianapolis (6.6); Dayton, Ohio (6.2); Columbus, Ohio (6.2); and Ann Arbor, Michigan (6.0) were also above the national average. Chicago (5.0); Joliet, Illinois (4.8); Cleveland (4.3); and Grand Rapids, Michigan (3.5) were below it.

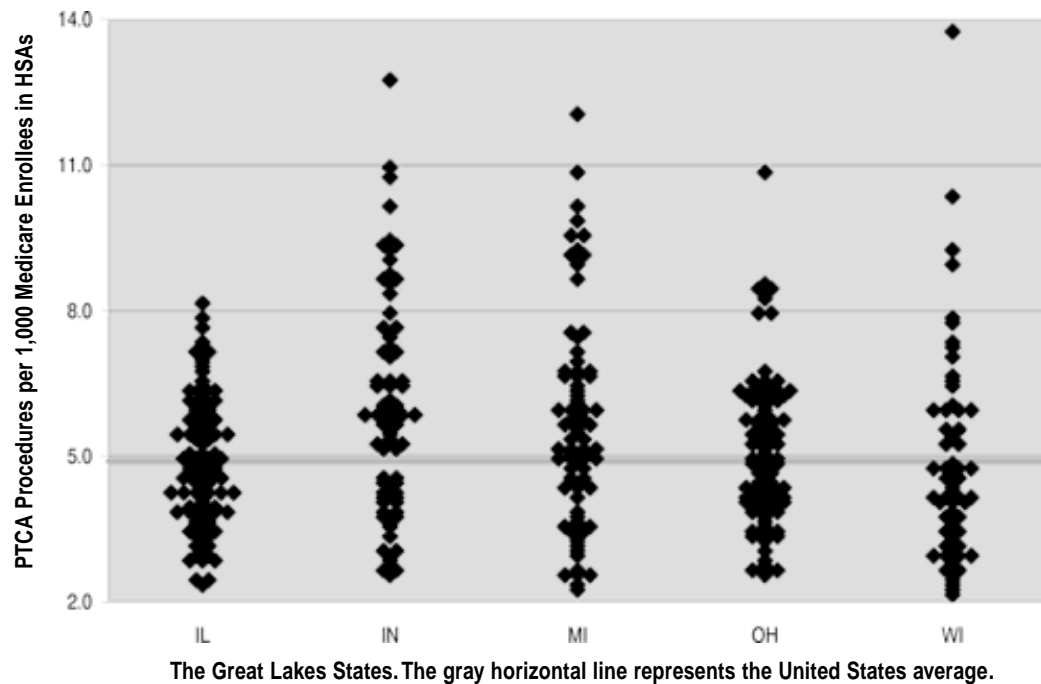
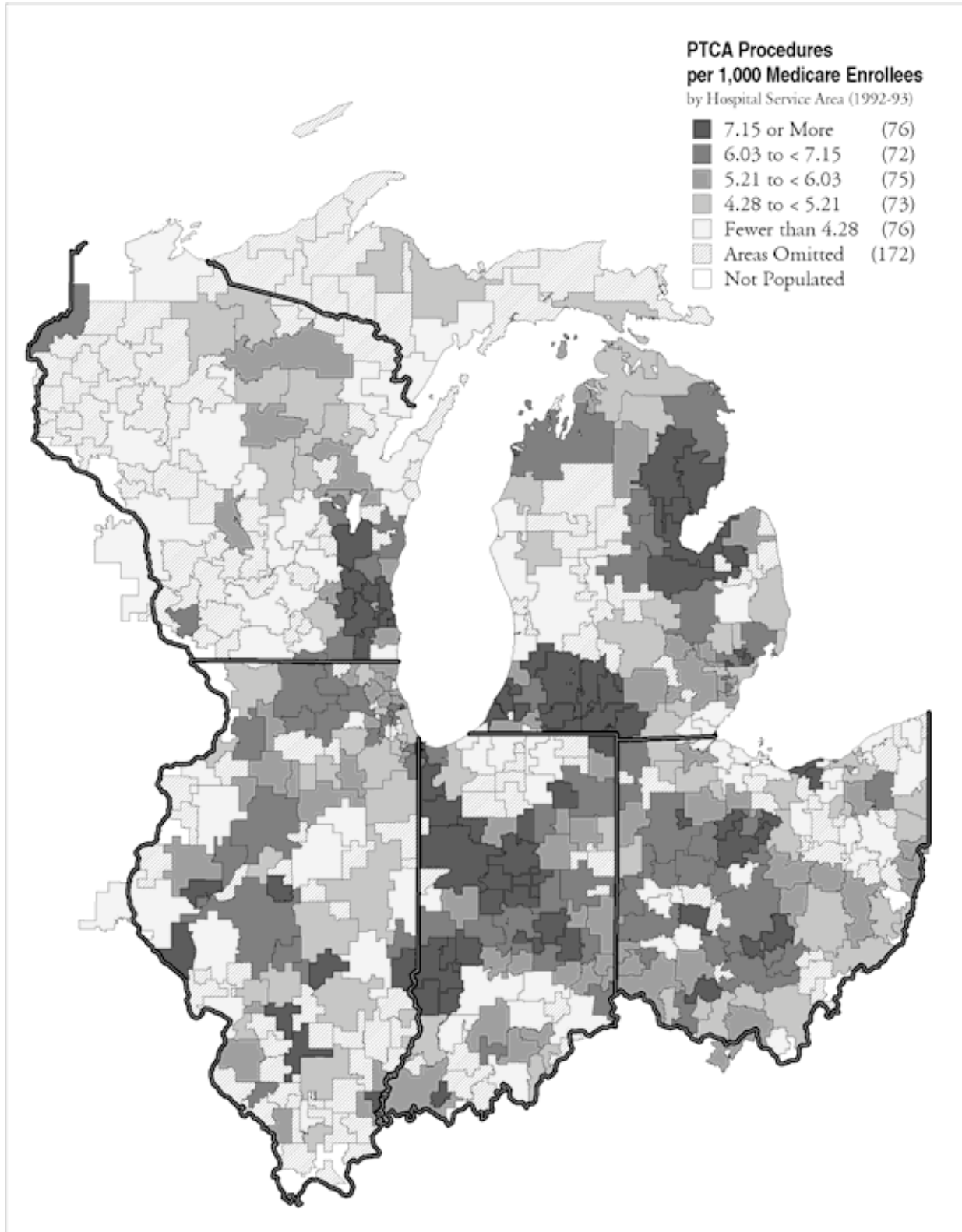


Figure 5.12. Rates of Percutaneous Transluminal Coronary Angioplasty Procedures per 1,000 Medicare Enrollees in Hospital Service Areas in the Great Lakes States (1992-93)
Rates of angioplasty varied by a factor of more than 6. Each point represents one hospital service area.



Coronary Angiography

Rates of coronary angiography varied substantially within the region. The hospital service area in Cudahy, Wisconsin, with 38.8 angiographies per thousand Medicare enrollees, was more than four times as high as Rock Island, Illinois, with 9.5. Waukesha, Wisconsin (33.2) and Hammond, Indiana (28.3) also had rates substantially higher than the national average of 16.2 per thousand Medicare enrollees. Coronary angiography is an essential diagnostic step in the decision making process leading to the recommendation of CABG or PTCA procedures. In the Great Lakes States, hospital service areas that performed more diagnostic tests for coronary artery disease per thousand Medicare enrollees had higher rates of invasive treatment.

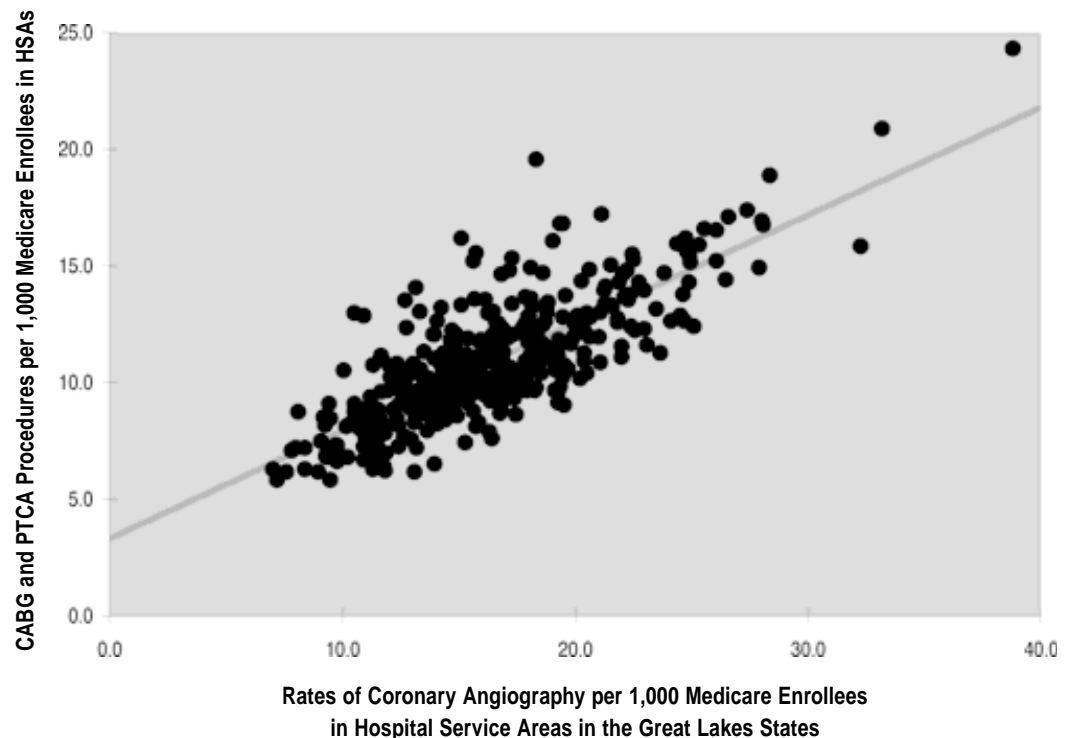
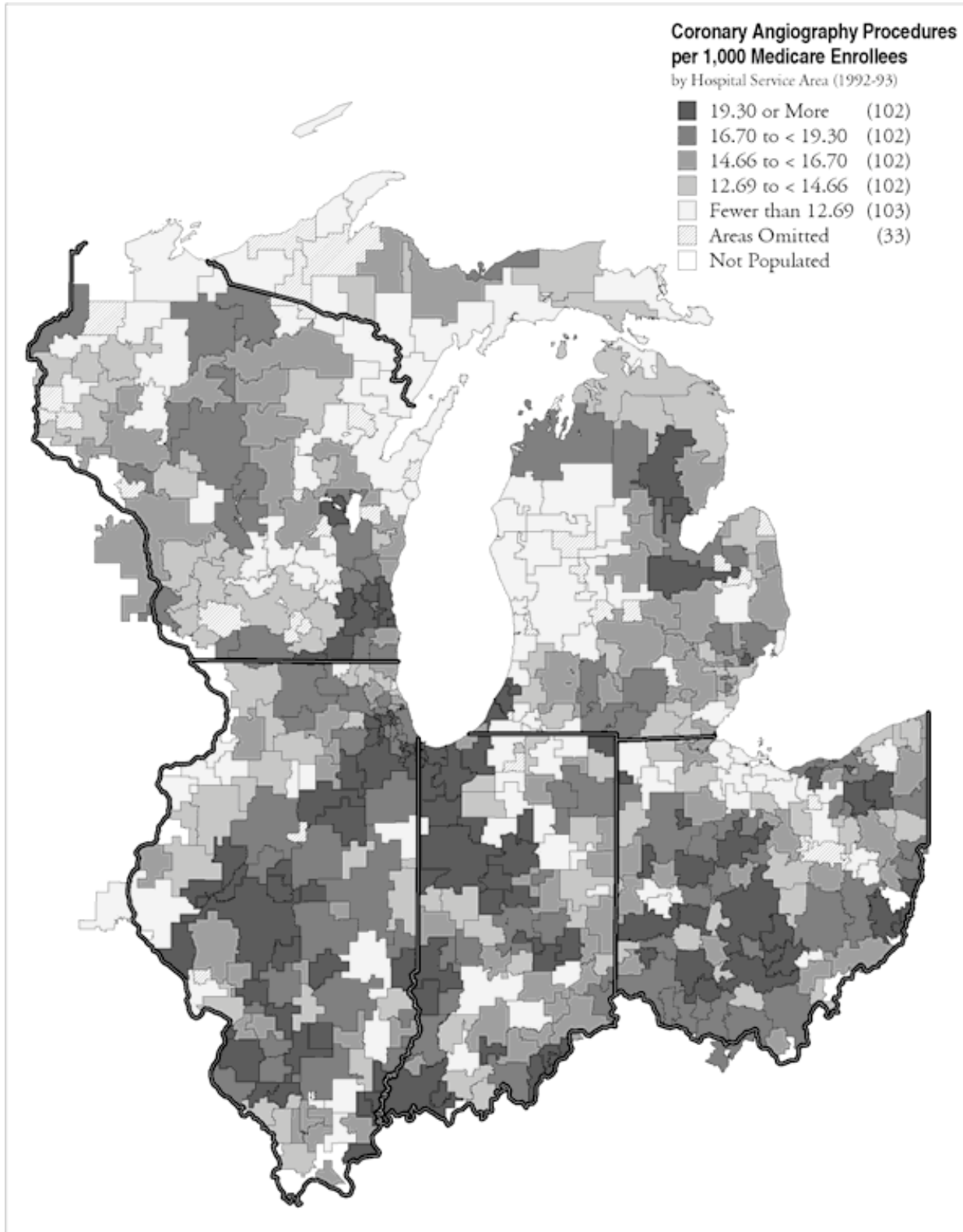


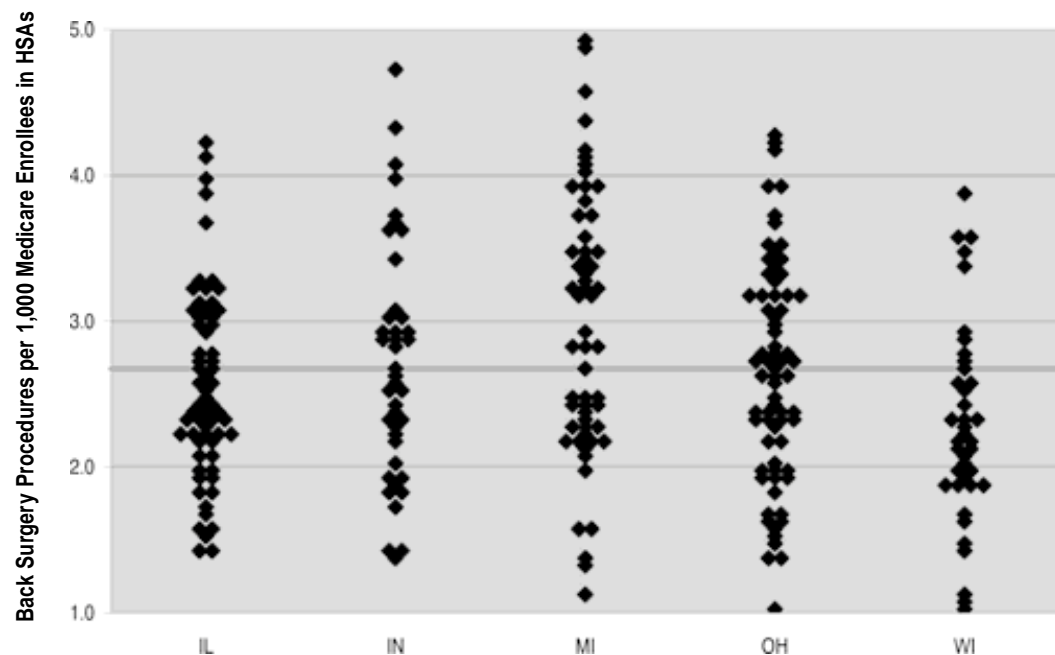
Figure 5.13. The Association Between Rates of Coronary Angiography and the Combined Rates of Coronary Artery Bypass Grafting and Coronary Angiography Procedures per 1,000 Medicare Enrollees in Hospital Service Areas in the Great Lakes States (1992-93)

The number of Medicare enrollees undergoing invasive cardiovascular procedures was closely linked with the rate of diagnostic testing ($R^2 = .62$)



Back Surgery

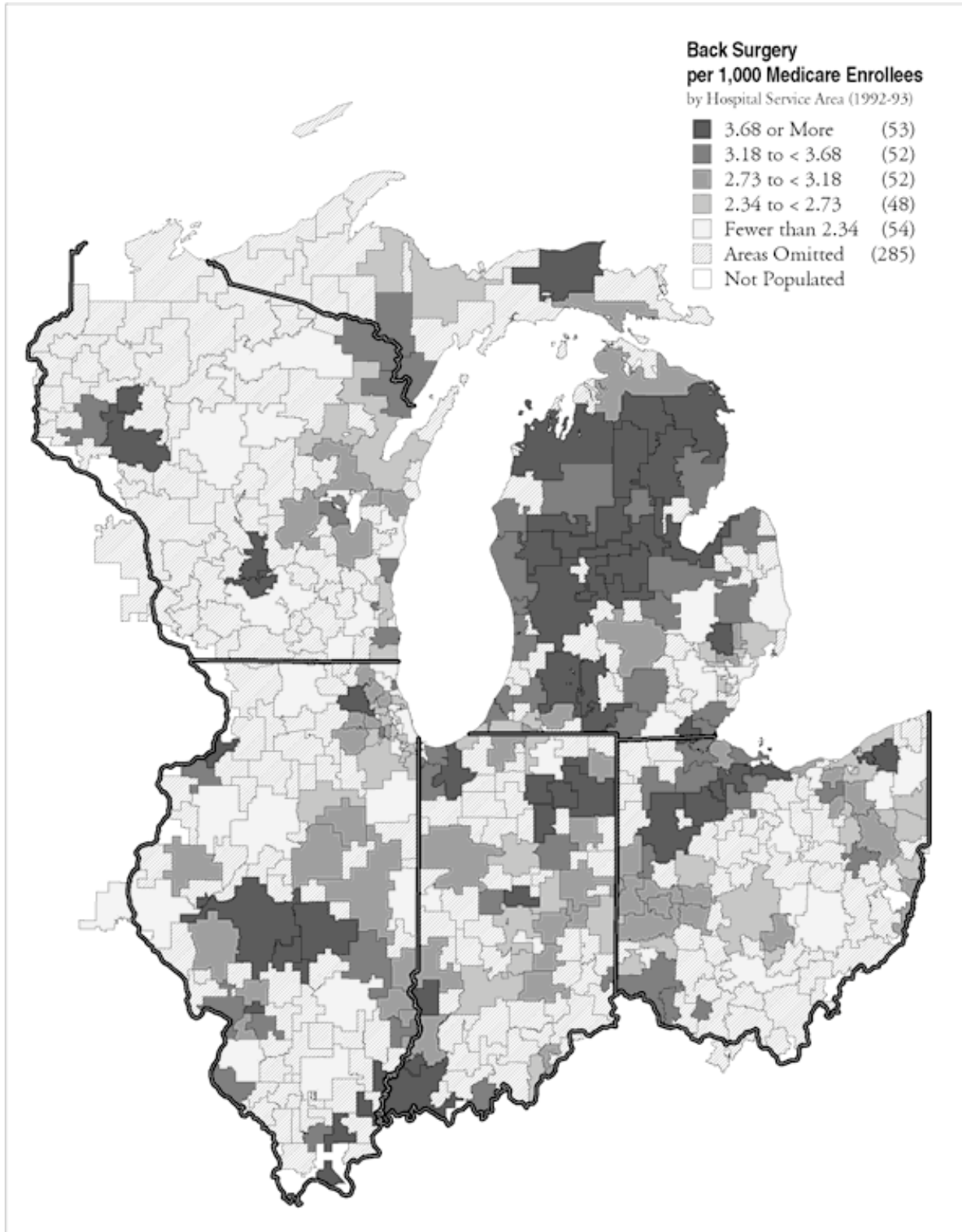
Rates of back surgery per thousand Medicare enrollees in the Great Lakes States ranged from about 1.0 to more than 4.5. Among the region's larger hospital service areas, rates of back surgery were higher than the national average of 2.7 per thousand enrollees in Grand Rapids, Michigan (4.9); Gary, Indiana (3.4); Saginaw, Michigan (3.3); and Dayton, Ohio (3.2). Columbus, Ohio (2.7); Cleveland (2.7); and Indianapolis (2.6) were near the national average; Milwaukee (2.4); Joliet, Illinois (2.4); Ann Arbor, Michigan (2.3); Rockford, Illinois (2.2); and Chicago (1.7) were below it.



The Great Lakes States. The gray horizontal line represents the United States average.

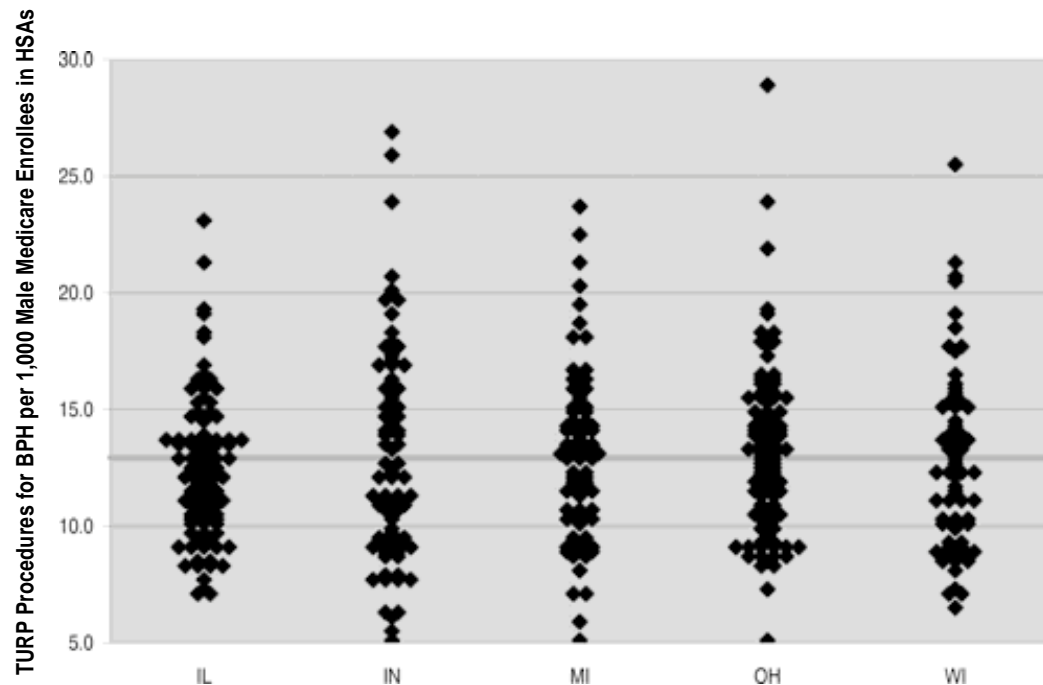
Figure 5.14. Rates of Back Surgery Procedures per 1,000 Medicare Enrollees in Hospital Service Areas in the Great Lakes States (1992-93)

Rates of back surgery varied by a factor of more than 4.5. Each point represents one hospital service area.



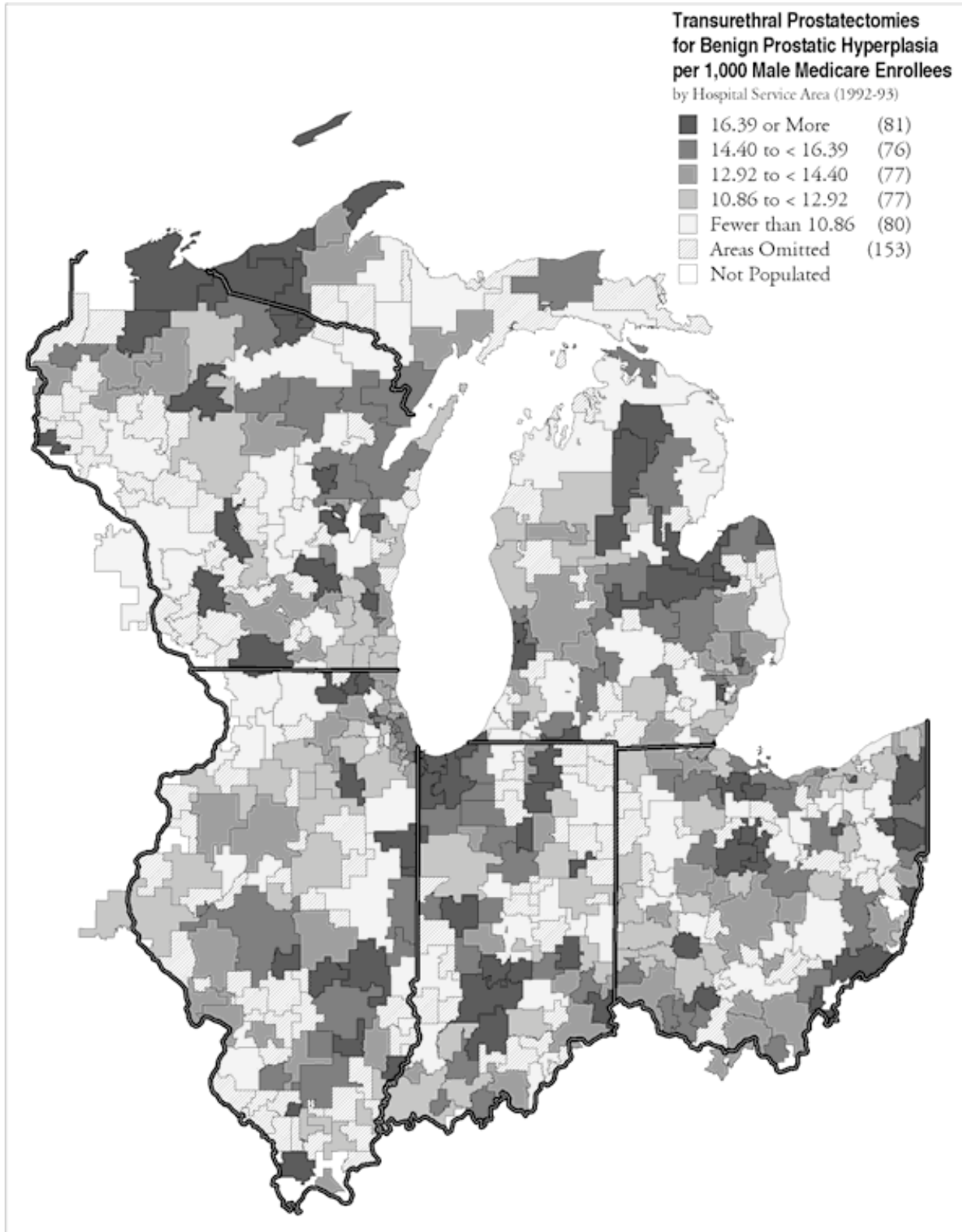
Transurethral Resection of the Prostate for Benign Prostatic Hyperplasia

Rates of transurethral resection of the prostate per thousand male Medicare enrollees in the Great Lakes States ranged from fewer than 6.0 to more than 25.0. Among the region's larger hospital service areas, rates were substantially higher than the national average of 12.9 in Gary, Indiana (19.6); and Saginaw, Michigan (16.6). Chicago (14.7); Grand Rapids, Michigan (14.4); Columbus, Ohio (14.2); Milwaukee, Wisconsin (13.7); and Joliet, Illinois (12.9) were also above the national average. Dayton, Ohio (12.4); Cleveland (12.3); Rockford, Illinois (10.6); Indianapolis (9.7); and Ann Arbor, Michigan (9.4) were below it.



The Great Lakes States. The gray horizontal line represents the United States average.

Figure 5.15. Rates of Transurethral Resection of the Prostate for Benign Prostatic Hyperplasia per 1,000 Male Medicare Enrollees Allocated to Hospital Service Areas in the Great Lakes States (1992-93)
Rates of transurethral resection of the prostate per thousand male Medicare enrollees varied by a factor of more than 5.6. Each point represents one hospital service area.



Benchmarking: CABG Procedures

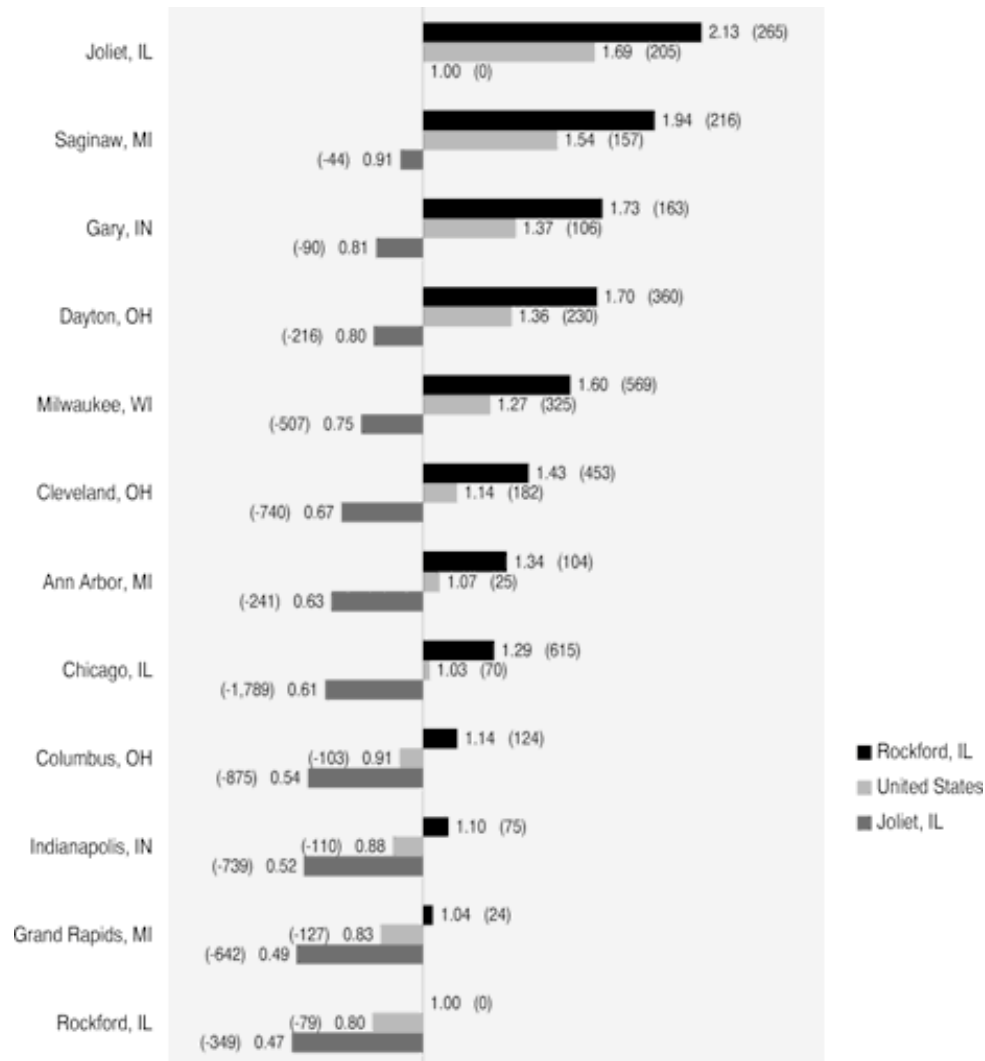


Figure 5.16. CABG Procedures per 1,000 Medicare Enrollees In Selected Hospital Service Areas in the Great Lakes States Compared to the Highest and Lowest Ranked Selected Hospital Service Areas (1992-93)

The figure gives the ratio of coronary artery bypass grafting in selected hospital service areas to the lowest and the highest ranked areas. It also compares each selected area to the U.S. average. The number of CABG procedures above (+) or below (-) the number predicted by the experience in the benchmark area for 1992-93 is in parentheses. For example, the number of CABG procedures per thousand Medicare enrollees in Joliet, Illinois was 2.13 times higher than the number per thousand enrollees in Rockford, Illinois. If the CABG rate of the Rockford benchmark in 1992-93 had prevailed, 265 fewer CABG procedures would have been performed on residents of Joliet.

Benchmarking: CABG Procedures

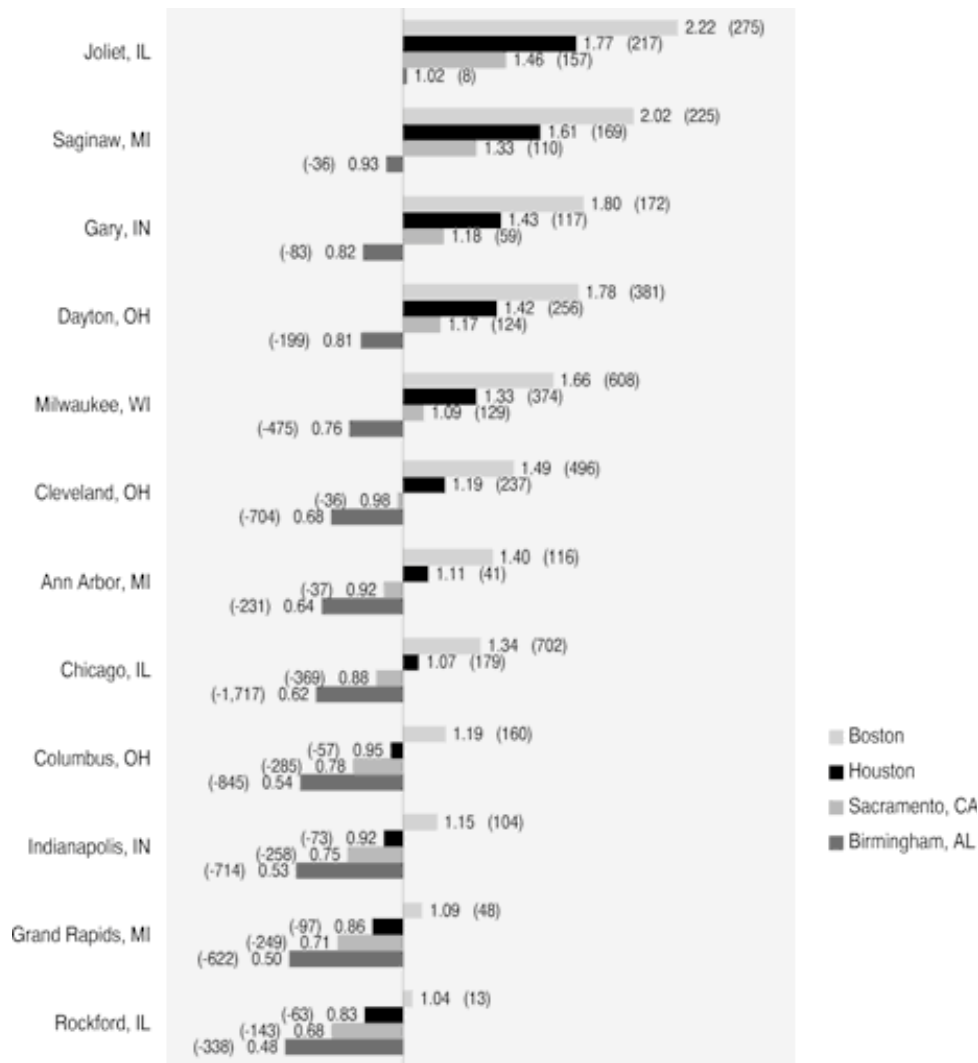


Figure 5.17. CABG Procedures per 1,000 Medicare Enrollees In Selected Hospital Service Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. (1992-93)

The figure gives the ratio of coronary artery bypass grafting in selected hospital service areas in the Great Lakes States to other areas. The number of CABG procedures above (+) or below (-) the number predicted by the experience in the benchmark area is in parentheses. For example, the number of CABG procedures per thousand Medicare enrollees in Joliet, Illinois was 2.22 times higher than the number per thousand enrollees in Boston. If the CABG rate of the Boston benchmark in 1992-93 had prevailed, 275 fewer CABG procedures would have been performed on residents of Joliet. If the Birmingham, Alabama benchmark had prevailed, only 8 fewer CABG procedures would have been performed on residents of Joliet.

Benchmarking: Angiography

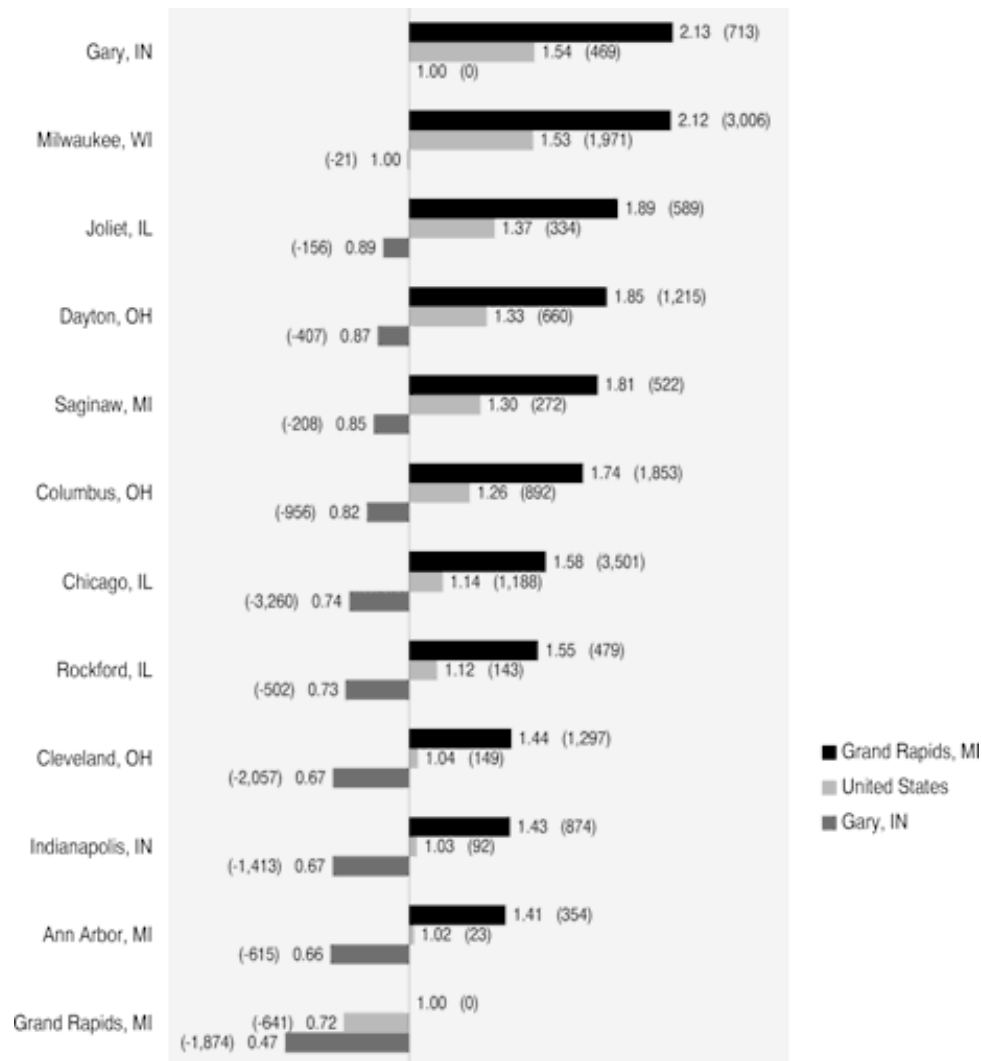


Figure 5.18. Angiography Procedures per 1,000 Medicare Enrollees In Selected Hospital Service Areas in the Great Lakes States Compared to the Highest and Lowest Ranked Selected Hospital Service Areas (1992-93)

The figure gives the ratio of coronary angiography in selected hospital service areas to the lowest and the highest ranked areas. It also compares each selected area to the U.S. average. The number of coronary angiographies above (+) or below (-) the number predicted by the experience in the benchmark area for 1992-93 is in parentheses. For example, the number of coronary angiographies per thousand Medicare enrollees in Gary, Indiana was 2.13 times higher than the number per thousand enrollees in Grand Rapids, Michigan. If the angiography rate of the Grand Rapids benchmark in 1992-93 had prevailed, 713 fewer coronary angiographies would have been performed on residents of Gary.

Benchmarking: Angiography

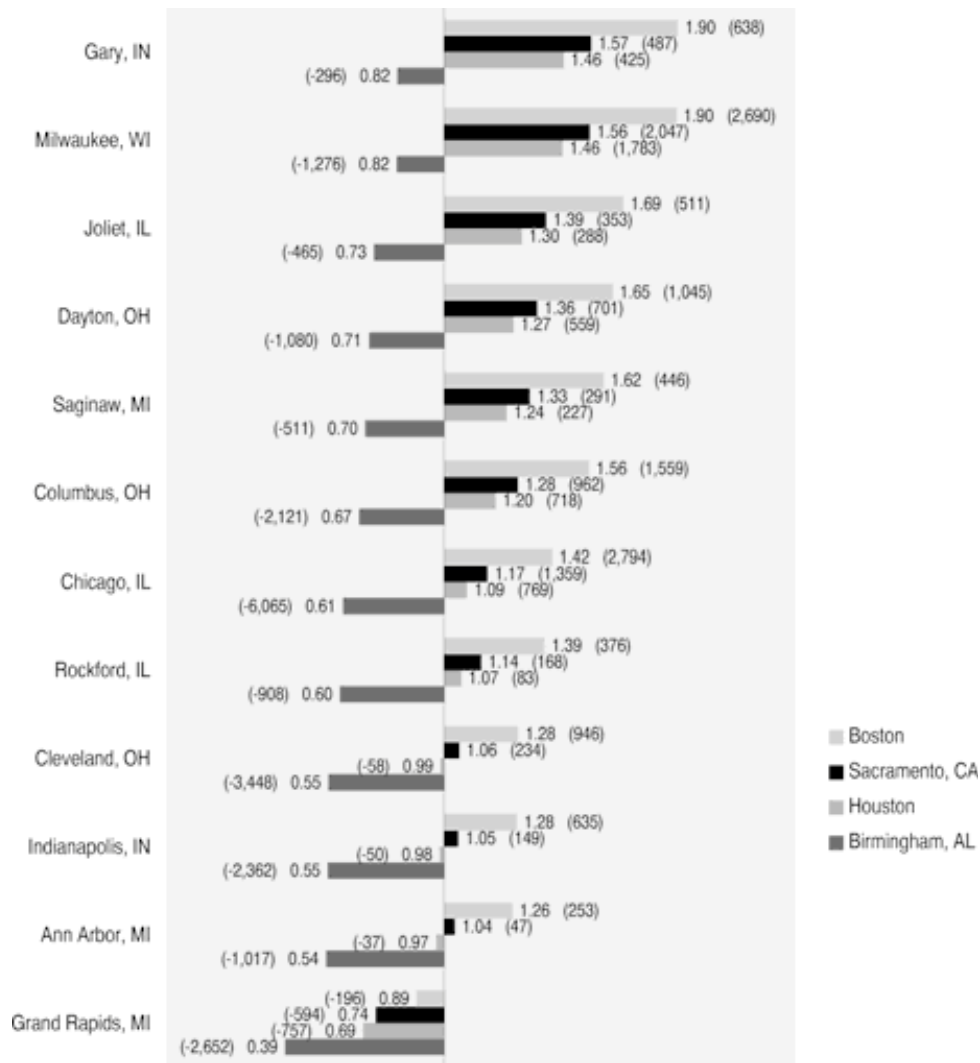


Figure 5.19. Angiography Procedures per 1,000 Medicare Enrollees in Selected Hospital Service Areas in the Great Lakes States Compared to Selected Hospital Service Areas Elsewhere in the U.S. (1992-93)

The figure gives the ratio of coronary angiography in selected hospital service areas in the Great Lakes States to other areas. The number of coronary angiographies above (+) or below (-) the number predicted by the experience in the benchmark area is in parentheses. For example, the number of coronary angiographies per thousand Medicare enrollees in Gary, Indiana was 1.90 times higher than in Boston. If the angiography rate of the Boston benchmark in 1992-93 had prevailed, 638 fewer coronary angiographies would have been performed on residents of Gary. If the Birmingham, Alabama benchmark had prevailed, 296 additional coronary angiographies would have been performed on residents of Gary.

TABLE 5 All rates are age, sex and race adjusted and are for 1992-93. The denominator is based on two-year enrollee or person-years of experience.

For total, surgical and medical discharges as well as discharges for high variation medical conditions, hospital service areas with total populations of fewer than 3,500 were omitted from the figures and maps. This gives a minimum 2-year population of about 700 person-years. With an average total discharge rate of 315 per 1,000, the minimum standard error for rates displayed in the figures and maps is less than 5.6% of the U.S. average under binomial assumptions. Rates for HSAs that do not meet the minimum population criteria are shown in parentheses in Table 5.

For specific surgical procedures, hospital service areas with fewer than 25 expected cases were not included in the figures and tables. Given the low average procedure rate of between 1 and 5 procedures per 1,000, the largest standard error for included areas is less than 20% of the overall rate. Rates for HSAs that do not meet the minimum expected case criterion are shown in parentheses in Table 5.

Rates for HSAs with 10 cases or fewer are omitted from the tables.

TURP for BPH = transurethral prostatectomy for male Medicare enrollees with benign prostatic hyperplasia.

TABLE 5

Hospitalizations for Total, Surgical, Medical, and High Variation Medical Conditions, and Selected Diagnostic and Surgical Procedures in Hospital Service Areas per 1,000 Medicare Enrollee Person-Years (1992-93)

Hospital Service Area	Resident Population	Medicare Enrollees (1992 plus 1993)	All Discharges	All Medical Discharges	All Surgical Discharges	High Variation Medical Conditions	CABG Surgery	PTCA	Coronary Angiography	Back Surgery	TURP for BPH
Illinois											
Aledo	11,174	3,582	315.4	231.6	83.7	207.9	(6.5)		10.8		(10.5)
Alton	117,143	33,279	345.5	241.7	103.9	209.1	6.8	3.4	14.3	3.2	13.1
Anna	18,825	6,529	296.6	214.3	82.2	189.3	4.4	4.0	13.9	(2.0)	23.1
Arlington Heights	318,558	60,961	316.7	218.3	98.3	190.4	6.3	5.9	16.8	2.9	13.9
Aurora	165,056	28,711	292.8	195.3	97.5	169.7	5.0	4.3	17.4	3.1	12.5
Barrington	97,777	15,106	281.5	197.6	84.0	171.4	4.7	5.5	14.8	3.0	10.6
Belleville	272,839	67,222	354.7	249.4	105.2	220.6	5.9	5.7	23.1	2.2	8.4
Belvidere	35,662	8,846	342.7	248.9	94.0	222.6	4.3	6.9	18.1	(1.9)	16.5
Benton	11,419	4,415	358.4	282.7	75.7	247.0	(2.5)	(2.9)	11.4	(2.9)	(11.8)
Berwyn	197,083	59,890	317.3	221.4	95.9	190.9	6.7	3.5	17.3	1.9	15.4
Bloomington	134,005	28,695	301.5	206.4	95.0	178.4	8.4	2.5	19.1	2.8	12.5
Blue Island	56,815	12,288	370.1	265.9	103.9	236.1	6.0	4.8	21.1	2.4	12.0
Breese	21,669	6,601	431.8	323.1	109.0	294.4	5.8	3.8	17.5	(2.5)	8.3
Canton	27,043	10,088	333.2	239.4	93.7	211.6	8.8	7.0	32.3	1.6	10.3
Carbondale	39,799	6,358	307.5	215.5	92.0	184.9	6.3	3.8	16.0	(2.5)	9.5
Carlinville	10,878	4,382	454.2	343.4	110.5	309.0	(6.8)	(4.3)	16.5	(3.0)	(12.4)
Carmi	8,234	3,678	359.2	270.9	87.8	237.3	(7.5)	(7.2)	24.0	(3.3)	(11.1)
Carrollton	3,986	1,715	290.6	213.3	77.2	191.4			15.1		
Carthage	15,055	5,136	306.7	225.3	81.4	194.4	6.9	3.3	16.4		7.1
Centralia	37,455	11,914	540.3	409.7	130.3	374.8	6.6	7.2	24.6	1.9	13.6
Chester	17,285	4,897	347.2	259.6	87.6	225.6	5.2	(3.4)	13.5	(2.4)	9.5
Chicago	2,680,712	512,650	362.8	265.4	96.4	234.7	5.4	5.0	18.5	1.7	14.7
Chicago Heights	133,405	28,668	384.9	283.6	101.6	248.4	6.3	6.1	22.4	2.6	13.5
Clinton	11,863	3,727	427.3	327.9	99.7	284.1	(7.4)	(3.7)	25.2		(14.8)
Danville	94,296	29,226	323.2	225.7	97.5	196.3	4.2	3.4	13.0	1.8	15.4
De Kalb	62,303	11,673	278.8	187.9	90.8	158.9	4.6	6.2	16.6	1.8	13.6
Decatur	145,026	43,200	336.0	235.1	100.9	204.0	5.9	4.4	18.0	4.2	13.5
Dixon	27,610	8,097	329.3	238.6	90.7	208.0	4.0	5.4	14.3	(1.7)	10.5
Downers Grove	84,711	16,078	290.5	195.2	95.2	173.3	7.9	6.4	21.9	3.3	12.8
Du Quoin	10,061	3,499	371.6	279.2	92.3	243.5		(4.3)	13.8		(17.7)
Effingham	53,837	16,855	350.7	247.0	103.6	215.4	6.2	4.3	19.2	2.3	15.9
Eldorado	13,693	5,049	435.4	353.7	80.5	318.5	5.5	(4.0)	15.8	(3.0)	11.0
Elgin	246,641	38,069	320.1	221.7	98.4	194.6	4.6	6.1	17.0	3.9	13.7
Elk Grove Village	122,151	19,421	325.7	228.4	97.4	201.0	7.0	5.0	17.9	2.5	16.2
Elmhurst	212,505	48,315	308.2	213.2	95.0	188.8	6.8	7.1	23.0	2.3	12.2
Eureka	7,478	2,447	280.0	180.9	99.8	154.4	(5.1)		12.4		(12.1)
Evanston	212,335	55,060	306.7	212.7	94.1	189.7	5.2	5.3	15.2	2.5	11.4
Fairfield	12,406	4,976	322.4	239.3	83.0	208.5	5.0	(4.0)	13.2		9.2

Hospital Service Area	Resident Population	Medicare Enrollees (1992 plus 1993)	All Discharges	All Medical Discharges	All Surgical Discharges	High Variation Medical Conditions	CABG Surgery	PTCA	Coronary Angiography	Back Surgery	TURP for BPH
Flora	11,448	4,435	366.4	272.8	93.5	239.0	(6.0)	(5.1)	15.6		(18.7)
Freeport	61,763	21,246	293.5	199.0	94.4	173.6	4.0	4.9	13.7	1.4	9.2
Galesburg	68,895	23,433	359.2	259.7	99.5	226.2	5.4	3.6	14.0	2.0	13.0
Geneseo	17,128	5,643	286.9	188.5	98.5	154.1	3.8	3.5	9.8	(2.1)	10.6
Geneva	78,478	14,766	300.2	212.1	88.1	185.3	5.3	4.0	14.5	3.0	12.2
Gibson City	8,955	3,469	317.2	229.1	88.1	200.5	(5.4)	(4.5)	14.1	(3.4)	(8.9)
Glendale Heights	43,884	4,784	387.0	290.1	97.5	257.3	7.5	(4.6)	19.5		(18.0)
Granite City	57,812	15,374	388.3	282.5	106.2	251.7	6.5	4.2	19.5	3.3	12.9
Greenville	13,706	4,525	331.3	243.9	87.2	210.1	(4.9)	(9.8)	24.6		(12.7)
Harrisburg	20,509	7,285	370.8	282.6	87.9	254.1	3.7	3.6	9.7	(3.7)	11.1
Harvard	10,790	2,653	306.8	220.2	86.8	194.6	(3.9)	(5.3)	12.3		(13.0)
Harvey	127,326	26,143	378.1	267.7	110.2	237.0	6.1	6.1	22.6	2.4	16.0
Havana	7,680	2,693	388.6	290.1	98.6	253.1	(10.4)	(5.8)	28.6		(11.6)
Hazel Crest	110,480	22,010	379.6	273.9	105.8	243.3	6.1	5.5	22.0	2.4	12.5
Herrin	39,421	13,335	369.4	276.6	93.0	243.2	5.7	3.6	15.1	2.0	11.9
Highland	19,091	5,610	345.4	250.0	95.4	214.1	6.2	3.7	16.0	(3.6)	13.2
Highland Park	70,163	17,193	286.9	198.3	88.6	174.0	4.5	5.4	14.1	2.2	13.7
Hillsboro	21,015	7,362	384.7	300.1	84.4	262.3	4.5	5.1	19.3	(2.6)	9.1
Hinsdale	105,246	25,264	280.0	190.8	89.1	168.3	7.4	3.8	16.9	3.1	10.4
Hoffman Estates	97,044	9,686	358.8	264.0	94.7	226.7	5.8	4.1	16.2	2.7	16.4
Hoopeston	6,600	2,268	337.4	230.2	107.1	190.6			13.6		(19.7)
Hopedale	6,286	1,932	310.9	181.4	130.3	158.4	(8.2)		19.9		(13.4)
Jacksonville	51,703	16,245	380.3	286.9	93.0	251.3	4.4	3.1	16.4	3.2	13.7
Jerseyville	17,263	6,279	361.3	260.4	101.1	225.8	4.2	2.9	11.3	(2.6)	12.9
Joliet	297,781	56,507	364.7	262.8	102.0	234.5	8.9	4.8	22.1	2.4	12.9
Kankakee	109,091	29,421	409.5	309.1	100.5	272.8	7.4	4.6	17.4	2.1	10.2
Kewanee	18,512	7,455	343.1	246.6	96.3	215.9	4.2	5.4	12.9		10.9
La Grange	120,869	37,663	298.5	206.2	92.3	180.2	6.8	3.4	17.8	2.6	12.9
Lake Forest	34,810	6,608	288.8	204.9	84.0	183.4	3.4	2.9	8.4	(3.2)	11.1
Lawrenceville	13,426	5,795	425.7	333.2	91.2	285.3	6.1	3.9	14.8	(3.5)	8.3
Libertyville	108,060	16,505	334.7	243.2	91.8	212.8	5.3	5.8	14.0	2.3	13.4
Lincoln	22,539	6,547	347.3	248.6	98.5	220.8	6.9	7.9	23.8	(3.1)	12.8
Litchfield	23,405	8,189	392.9	298.1	94.5	258.1	7.8	5.0	21.8	(3.2)	9.7
Macomb	41,682	11,749	360.0	265.4	94.4	231.8	4.7	5.4	14.1	2.8	11.5
Marion	27,662	9,662	328.2	239.7	88.7	207.7	6.1	4.5	15.3	3.2	8.5
Maryville	74,867	19,327	316.8	216.2	100.5	188.1	5.9	5.0	14.9	3.0	9.2
Mattoon	69,630	19,725	310.5	221.0	89.5	191.3	5.4	2.9	12.3	3.3	18.3
Mchenry	80,690	16,748	320.9	223.1	97.7	193.4	4.2	4.8	14.6	3.0	16.4
Mcleansboro	9,552	3,706	459.4	391.7	67.2	355.6	(5.1)	(3.5)	11.6		(10.8)
Melrose Park	160,285	38,506	338.4	239.6	98.8	211.3	7.3	7.1	26.4	2.2	14.9
Mendota	21,209	7,082	375.1	277.8	97.6	242.0	4.0	3.9	13.6		11.1
Metropolis	14,736	4,619	420.8	316.8	103.5	289.0	(4.0)	(3.1)	16.0	(4.4)	(14.4)
Monmouth	17,759	6,234	334.1	247.2	86.7	212.5	4.5	3.9	14.4		10.1
Monticello	8,147	2,864	344.2	254.1	90.3	228.5	(5.5)	(4.5)	15.4		(11.9)
Morris	31,960	9,076	404.1	292.1	112.2	261.1	9.7	5.6	22.5	2.2	17.0
Mount Carmel	13,551	4,354	430.5	335.3	95.7	298.9	(5.3)	(4.9)	17.4	(2.7)	(18.2)
Mount Vernon	46,308	14,815	391.7	298.5	93.2	267.1	5.4	4.5	17.9	2.3	14.5

Hospital Service Area	Resident Population	Medicare Enrollees (1992 plus 1993)	All Discharges	All Medical Discharges	All Surgical Discharges	High Variation Medical Conditions	CABG Surgery	PTCA	Coronary Angiography	Back Surgery	TURP for BPH
Murphysboro	20,733	6,071	351.3	256.1	95.1	226.3	5.7	5.6	14.3	(3.0)	7.0
Naperville	151,644	18,112	308.6	209.0	99.5	182.2	7.4	6.9	22.8	2.7	7.7
Nashville	10,358	3,817	324.5	227.1	97.4	197.9	(4.8)	(4.6)	17.2		(15.9)
Oak Lawn	235,770	70,288	341.7	243.7	98.2	212.8	6.0	4.6	17.3	2.4	13.3
Oak Park	80,199	17,216	324.2	224.2	100.1	196.8	5.0	3.8	16.8	2.7	14.9
Olney	20,098	6,871	325.0	248.5	76.4	215.3	4.6	2.3	11.9	(1.6)	13.6
Ottawa	31,917	10,137	301.1	212.0	89.2	181.9	4.6	4.6	15.4	1.6	12.1
Palos Heights	141,604	32,472	344.3	247.9	96.9	218.7	6.7	4.4	19.3	2.3	13.8
Pana	8,320	3,222	332.0	246.8	85.0	216.5	(5.7)	(6.6)	15.8	(4.7)	(8.8)
Paris	14,177	5,630	331.1	241.1	89.9	209.9	6.2	6.4	18.0		14.7
Park Ridge	170,999	55,093	310.1	216.3	93.8	190.2	5.3	6.8	16.5	2.2	13.5
Pekin	55,126	15,618	307.5	214.8	92.8	182.2	5.0	4.3	17.0	1.7	10.3
Peoria	286,834	80,654	264.2	172.1	92.0	148.1	5.3	6.1	19.2	2.1	13.3
Peru	28,896	11,752	310.7	220.8	89.9	190.2	5.2	4.4	12.5		11.3
Pinckneyville	9,588	3,164	343.0	250.3	92.6	214.3	(8.5)	(4.7)	20.7		(14.0)
Pittsfield	13,642	5,419	366.6	261.0	105.5	228.3	7.8	7.3	24.9		9.6
Pontiac	29,416	9,001	352.4	260.5	91.5	231.7	5.6	4.3	19.4	(3.0)	9.1
Princeton	24,176	8,843	357.0	260.0	97.0	229.9	3.7	5.6	13.9	(2.3)	12.3
Quincy	89,858	31,049	306.1	213.0	93.1	184.8	4.2	3.2	11.2	2.2	10.9
Red Bud	21,433	6,821	374.6	258.3	116.3	226.1	6.8	2.9	19.1	(3.3)	8.5
Robinson	18,603	7,007	314.8	234.6	80.2	203.9	5.4	4.1	14.3	(3.1)	7.3
Rochelle	17,909	4,493	329.3	238.8	90.5	213.6	(5.6)	(6.5)	18.2		(12.9)
Rock Island	115,630	34,626	324.3	231.8	92.6	199.8	3.4	2.4	9.5	3.7	11.6
Rockford	285,530	74,329	259.5	171.9	87.5	149.8	4.2	6.6	18.1	2.2	10.6
Rosiclare	5,888	1,781	600.1	527.2	75.7	496.4	(5.8)		26.1		
Rushville	8,309	3,319	310.5	214.7	95.8	189.1	(5.4)	(7.3)	22.7		(14.5)
Salem	15,949	5,083	464.9	357.8	106.8	319.0	7.9	4.7	24.7	(3.3)	14.7
Sandwich	16,546	4,209	327.3	240.9	86.7	203.5	(6.7)	(2.5)	15.2		(14.3)
Shelbyville	15,737	5,716	523.3	409.7	112.9	377.4	7.3	7.7	27.9	(1.9)	21.2
Silvis	50,832	13,379	359.0	256.9	102.3	218.8	4.6	4.3	11.4	4.0	8.3
Skokie	54,269	19,758	343.2	243.3	100.0	214.5	8.1	8.1	24.7	2.7	15.4
Sparta	11,195	3,361	364.8	279.5	85.5	242.4	(10.0)	(6.4)	25.7		(11.7)
Spring Valley	14,001	5,073	344.8	254.9	89.9	226.5	4.3	5.9	12.5		11.5
Springfield	229,063	65,483	335.8	227.9	108.0	198.6	6.6	6.3	24.5	4.1	16.0
Staunton	9,764	3,794	367.7	259.1	108.6	219.1	(6.4)	(5.7)	18.7	(5.1)	(11.6)
Sterling	53,374	16,402	360.8	267.7	93.4	235.5	4.4	6.3	16.7	1.5	10.0
Streator	38,382	13,773	377.0	280.8	96.3	249.2	7.6	5.8	21.5	2.6	12.4
Taylorville	21,109	7,459	445.3	328.8	116.4	297.1	6.0	6.4	25.1	(3.7)	19.3
Urbana	205,867	40,827	282.0	195.6	86.3	171.3	5.5	5.0	16.9	3.1	9.7
Vandalia	14,713	5,004	438.3	343.3	94.4	310.8	4.2	(2.8)	12.7		11.0
Watseka	21,442	8,089	373.3	281.3	92.0	238.6	4.5	3.0	11.5	(2.3)	19.1
Waukegan	208,959	33,478	356.0	258.7	97.4	229.2	5.1	6.0	15.7	1.5	13.8
West Frankfort	14,991	5,752	393.9	302.4	91.8	266.8	4.6	2.9	15.3	(2.5)	12.1
Winfield	173,873	28,142	269.3	180.5	88.6	156.9	7.0	5.3	20.4	3.1	10.4
Woodstock	23,376	5,705	293.7	198.7	95.1	170.7	4.0	5.4	13.8	(3.0)	18.2
Indiana											
Anderson	126,156	35,340	353.1	261.4	92.0	227.7	5.1	7.1	14.7	2.5	10.9

Hospital Service Area	Resident Population	Medical Enrollees (1992 plus 1993)	All Discharges	All Medical Discharges	All Surgical Discharges	High Variation Medical Conditions	CABG Surgery	PTCA	Coronary Angiography	Back Surgery	TURP for BPH
Angola	24,677	7,223	321.8	227.9	94.1	197.9	6.6	8.6	26.1	(2.0)	9.2
Auburn	35,564	9,055	265.1	178.7	86.3	151.6	4.3	5.8	13.5	2.9	8.7
Batesville	18,950	5,743	331.9	241.1	90.6	209.4	6.5	5.4	15.4	(1.9)	15.0
Bedford	52,039	14,247	381.1	282.8	98.7	247.8	5.9	6.0	15.9	1.8	17.8
Beech Grove	163,183	38,024	337.1	233.4	103.6	205.8	6.4	8.4	22.2	1.4	12.1
Bloomington	144,870	27,592	289.6	198.1	91.4	170.7	3.9	3.9	11.8	2.5	17.1
Bluffton	30,547	8,802	270.0	188.2	81.8	162.8	5.5	5.3	13.0	(3.1)	9.4
Boonville	13,342	3,928	409.1	297.5	111.9	264.1	(8.1)	(7.4)	21.1	(3.7)	(14.7)
Brazil	20,484	6,550	311.7	224.8	86.8	192.7	5.6	9.2	17.2	(1.7)	5.1
Bremen	13,324	2,419	257.8	183.3	74.5	155.0			9.7		
Charlestown	12,901	2,751	436.3	344.6	93.8	311.8	(7.1)	(4.8)	24.2		(13.9)
Clinton	26,538	8,811	305.7	223.0	82.8	188.3	5.3	6.5	15.9	(2.4)	9.1
Columbia City	25,697	7,523	288.7	197.7	90.9	170.6	5.0	7.5	17.8	(5.6)	11.4
Columbus	73,199	16,656	345.3	256.1	89.6	224.3	5.8	4.2	15.8	2.8	9.4
Connersville	28,544	8,046	425.0	342.2	84.0	301.3	4.0	6.6	15.8	(1.8)	12.0
Corydon	33,456	8,149	333.1	247.3	86.2	214.4	7.2	4.1	18.2		13.3
Crawfordsville	36,620	10,424	376.4	278.7	97.9	246.7	3.9	5.8	14.5	2.3	19.8
Crown Point	74,348	16,867	336.6	229.6	106.6	206.9	7.6	9.0	25.5	3.6	20.6
Danville	54,074	11,465	318.6	224.7	94.1	193.9	4.2	6.6	14.2	1.9	13.9
Decatur	30,195	8,215	304.4	218.8	85.5	190.7	6.1	4.6	16.0	(1.9)	7.9
Dyer	32,364	6,019	366.0	250.2	115.4	222.5	5.2	7.1	23.0	(3.4)	16.9
East Chicago	33,775	8,676	429.1	309.0	119.8	279.5	7.4	9.4	28.1	(2.1)	19.0
Elkhart	103,903	24,521	275.9	189.6	86.3	162.4	6.4	2.6	14.4	2.3	13.9
Elwood	13,598	4,009	442.4	341.9	100.7	300.9	(4.2)	(9.4)	17.3		(12.0)
Evansville	261,319	76,883	313.8	221.8	92.1	194.8	6.0	5.6	19.8	3.7	11.0
Fort Wayne	322,307	74,784	257.3	167.2	90.0	143.5	4.8	6.5	18.7	3.7	9.0
Frankfort	24,958	7,750	344.7	250.4	94.3	217.2	6.0	8.7	22.1	(2.3)	10.9
Franklin	42,222	12,670	329.2	237.1	92.0	207.1	4.4	5.6	14.2	2.4	17.8
Gary	238,779	54,033	389.9	279.2	110.4	252.9	7.2	7.1	24.9	3.4	19.6
Goshen	78,345	17,325	256.2	168.4	87.6	142.4	5.5	2.9	12.4	2.2	23.9
Greencastle	27,351	7,137	343.1	248.0	95.1	218.2	5.5	9.4	18.1	(2.2)	14.9
Greenfield	50,949	11,494	324.1	229.6	94.7	196.6	5.2	7.6	18.0	3.0	6.3
Greensburg	19,250	5,155	311.5	223.5	88.1	192.2	4.3	6.0	12.4	(2.8)	14.1
Hammond	90,609	27,368	381.4	271.0	110.5	240.5	6.1	12.7	28.3	2.0	16.9
Hartford City	13,515	4,409	358.4	273.8	85.0	240.7	(4.0)	(4.4)	10.1		(19.8)
Huntingburg	25,304	6,079	323.9	238.9	85.1	203.7	5.2	3.7	13.3	(2.4)	12.8
Huntington	25,854	7,972	258.9	179.9	78.9	154.1	4.8	5.9	17.7	(2.1)	5.5
Indianapolis	813,184	173,420	296.7	202.5	94.3	177.8	4.6	6.6	16.7	2.6	9.7
Jasper	29,569	7,514	299.1	207.6	91.5	172.7	4.1	3.1	11.6	(2.3)	15.1
Jeffersonville	73,614	17,743	377.3	281.1	96.4	252.0	6.1	4.5	19.7	2.9	10.6
Kendallville	18,523	5,027	290.9	211.5	79.6	182.6	5.5	4.5	15.9	(3.7)	6.2
Knox	18,439	5,049	322.4	236.5	86.4	205.2	5.9	3.7	14.1		14.4
Kokomo	101,437	24,284	373.5	268.6	105.2	239.2	5.0	8.6	22.3	2.7	16.4
Lafayette	176,293	39,572	265.3	177.5	87.6	153.0	5.7	7.2	20.1	3.0	11.2
Lagrange	26,120	4,573	272.6	195.7	77.1	170.0	4.4	(3.1)	11.9	(3.1)	8.7
Laporte	54,617	14,038	318.4	217.9	100.4	185.1	7.9	3.3	20.4	1.8	15.9
Lawrenceburg	41,081	10,696	366.4	269.4	97.3	230.7	5.6	6.1	18.0	1.4	17.4

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Lebanon	23,836	6,578	395.5	294.0	101.9	260.9	6.3	10.2	26.1	(3.2)	15.4
Linton	14,651	4,898	363.0	262.7	100.2	229.4	4.4	(8.5)	18.2	(2.2)	11.2
Logansport	33,171	10,642	297.3	201.3	95.8	172.0	3.8	5.3	10.5	1.7	14.7
Madison	48,242	12,499	383.3	284.4	99.3	236.3	6.2	3.8	15.0	1.4	13.5
Marion	80,147	21,731	358.5	256.4	102.2	226.3	4.9	5.9	12.0	3.6	12.3
Martinsville	34,988	7,475	379.3	269.0	110.4	232.0	5.7	5.8	16.4	(2.6)	26.8
Michigan City	64,754	16,476	344.5	246.1	98.5	215.6	7.1	4.0	15.4	2.4	16.8
Mishawaka	29,911	10,390	288.2	199.4	88.8	171.7	5.7	2.6	14.1	1.9	9.1
Monticello	17,391	5,888	364.2	264.5	100.1	235.0	5.3	7.6	20.5	(2.8)	13.4
Muncie	149,162	38,173	314.0	220.8	93.2	194.5	4.3	6.1	12.9	3.0	12.1
Munster	139,544	39,737	349.3	240.4	108.7	214.3	6.4	11.0	27.4	2.3	17.9
New Albany	71,408	17,843	385.5	290.8	95.1	260.2	6.9	4.4	23.6	2.6	7.6
New Castle	33,184	11,071	358.9	269.3	90.1	233.9	3.9	5.3	13.7	2.9	10.3
Noblesville	48,760	10,248	339.9	247.5	92.7	218.8	4.7	7.9	24.1	4.0	8.0
North Vernon	16,639	4,328	350.1	264.2	86.3	231.0	(4.9)	(4.3)	15.5		(6.3)
Paoli	12,467	3,851	333.8	252.4	81.9	211.1	(6.7)	(6.3)	19.5		(11.3)
Peru	29,252	6,899	365.5	253.5	111.9	217.1	5.0	9.3	20.3	(2.4)	25.8
Plymouth	23,540	7,870	238.3	157.8	80.5	135.1	5.3	2.9	11.4	(1.8)	7.7
Portland	16,513	4,937	358.0	279.7	79.2	239.4	4.8	3.1	16.3		7.7
Princeton	14,227	4,769	381.6	290.3	91.2	263.0	(4.6)	(5.0)	15.8	(4.4)	(13.7)
Rensselaer	14,832	4,308	337.4	248.0	89.5	214.0	(6.0)	(8.0)	23.2	(3.2)	(15.4)
Richmond	86,249	26,153	339.5	251.7	87.8	217.4	5.3	5.6	15.0	2.3	10.0
Rochester	21,139	6,520	283.2	187.9	95.0	165.5	4.3	4.1	10.8	(2.4)	10.8
Rushville	15,749	4,694	333.8	241.0	93.0	214.1	5.5	(8.8)	19.8	(2.7)	(19.7)
Salem	23,542	5,755	299.8	221.6	78.4	189.2	5.1	5.2	16.7		7.7
Scottsburg	19,827	4,603	351.2	268.3	83.3	235.9	(5.3)	(5.5)	16.5		(9.2)
Seymour	38,702	10,653	391.0	298.8	92.7	263.6	4.8	3.6	11.7	1.9	11.2
Shelbyville	31,150	8,196	395.7	290.8	105.2	255.0	6.4	6.4	19.5	(2.9)	15.4
South Bend	231,073	65,613	256.9	173.3	83.6	149.0	5.6	2.7	12.3	2.9	6.4
Sullivan	18,338	5,786	411.7	304.1	107.7	265.4	6.0	10.8	19.5	(3.7)	9.4
Tell City	19,133	5,772	328.8	244.3	84.8	218.7	4.3	4.5	14.1	(3.4)	15.8
Terre Haute	131,930	40,526	302.4	208.3	94.1	180.8	5.4	8.7	21.3	3.1	9.0
Tipton	13,546	4,273	395.8	300.0	95.9	270.0	(5.1)	(9.0)	15.9		(11.8)
Valparaiso	89,415	19,883	355.4	246.9	108.5	221.2	6.8	5.1	19.9	4.1	18.3
Vincennes	51,319	15,360	425.1	327.6	97.4	290.5	7.3	5.2	18.6	2.9	9.0
Wabash	32,515	9,696	222.0	140.1	82.0	117.7	3.0	6.1	12.4	4.7	14.1
Warsaw	48,340	11,640	286.1	191.6	94.3	159.5	5.7	4.2	15.5	4.3	20.2
Washington	27,272	8,041	327.1	234.6	92.6	199.5	4.4	4.3	13.3	(2.8)	12.8
Williamsport	6,548	1,496	337.2	248.9	88.7	212.6			(19.6)		
Winamac	14,609	4,709	319.2	233.6	85.9	200.0	4.5	(4.7)	13.5		14.8
Winchester	8,830	3,008	355.4	259.2	96.3	222.8	(4.2)	(5.9)	12.5	(3.6)	(14.0)
Michigan											
Adrian	60,613	15,959	260.7	172.0	88.5	144.5	4.9	5.0	13.6	2.2	13.5
Albion	13,514	3,963	375.7	270.9	104.7	241.6	(7.0)	(12.0)	14.7		(8.7)
Allegan	22,512	5,534	286.0	208.0	78.2	179.1	4.6	8.9	12.7	(1.9)	9.5
Alma	55,067	12,334	304.8	198.9	105.8	171.6	7.2	6.4	15.7	4.1	15.4
Alpena	45,125	16,481	278.0	179.2	98.2	148.9	6.5	6.7	14.2	3.8	10.6

Hospital Service Area	Resident Population	Medical Enrollees (1992 plus 1993)	All Discharges	All Medical Discharges	All Surgical Discharges	High Variability Medical Conditions	CABG Surgery	PTCA	Coronary Angiography	Back Surgery	TURP for BPH
Ann Arbor	460,644	73,448	302.4	208.1	94.3	181.6	5.6	6.0	16.5	2.3	9.4
Bad Axe	19,988	6,509	278.8	179.2	99.2	155.7	5.0	5.5	13.2	(3.6)	15.5
Battle Creek	110,090	28,816	306.5	192.6	113.8	161.7	6.8	8.6	17.3	3.9	16.0
Bay City	121,196	33,137	369.1	262.0	107.1	235.0	7.1	7.6	16.8	4.9	21.3
Berrien Center	2,324	433	(240.4)	(157.9)	(83.6)	(134.1)					
Big Rapids	29,441	7,235	263.7	180.4	83.1	149.2	3.6	2.7	7.0	(4.3)	12.1
Cadillac	46,733	13,184	288.2	198.3	89.7	169.6	6.4	2.3	8.1	3.2	11.4
Caro	11,389	3,341	324.2	227.3	97.0	194.2	(8.2)	(5.8)	10.6	(3.2)	(21.3)
Carson City	17,396	3,418	343.9	238.6	105.3	205.4	(5.2)	(3.6)	11.5	(4.5)	(20.4)
Cass City	9,209	2,716	347.3	241.8	105.6	214.6	(6.5)	(9.0)	18.0		(10.6)
Charlevoix	15,126	5,030	301.1	205.1	95.9	180.0	6.6	5.8	12.7	(3.4)	11.7
Charlotte	24,486	4,816	330.2	231.1	99.2	198.6	5.6	(3.4)	12.9	(3.0)	16.0
Cheboygan	14,962	5,339	297.9	199.8	97.8	165.6	5.8	5.0	12.3	(3.4)	15.7
Chelsea	18,874	4,322	258.4	167.8	90.9	137.2	(5.6)	(4.9)	10.8		(16.2)
Clare	28,093	10,207	380.9	280.4	101.7	246.2	4.2	3.0	9.8	4.4	18.0
Coldwater	40,413	11,092	287.3	185.0	101.8	157.1	7.5	12.0	18.3	3.8	9.1
Crystal Falls	4,804	2,587	315.6	211.4	104.2	177.9	(5.9)		13.7	(4.2)	
Dearborn	156,394	52,572	282.4	191.5	90.6	166.3	6.4	5.7	14.8	1.6	10.4
Deckerville	6,871	1,788	271.9	178.8	92.8	151.1	(5.7)		15.4		
Detroit	1,177,213	268,634	327.1	233.5	92.9	203.2	5.6	4.5	13.7	2.0	13.4
Dowagiac	14,921	4,321	375.1	258.3	116.7	228.3	(4.6)	(9.6)	11.7		(16.3)
Escanaba	38,871	12,387	274.1	180.0	93.9	153.2	5.1	3.6	10.5	1.6	14.2
Farmington Hills	90,061	21,841	278.6	189.9	88.6	162.5	5.0	5.4	14.7	2.4	13.7
Flint	475,811	95,207	349.5	242.3	107.2	211.9	7.1	6.2	15.1	2.3	16.3
Frankfort	3,168	1,663	(293.8)	(202.6)	(91.2)	(172.0)	(7.6)	(8.7)	16.0		
Fremont	23,544	6,963	282.1	187.7	94.1	162.2	5.7	4.3	12.4	(3.7)	9.1
Garden City	67,969	23,165	317.7	216.4	100.8	182.5	5.8	6.1	17.1	2.2	14.6
Gaylord	21,877	8,942	290.0	183.7	105.0	151.2	6.9	5.2	13.9	4.6	18.6
Gladwin	11,790	5,305	419.5	314.7	106.3	279.3	6.9	6.7	16.2	(3.5)	12.4
Grand Haven	42,500	10,734	233.2	143.6	88.9	119.7	4.4	2.6	9.3	3.4	14.4
Grand Rapids	652,385	142,104	233.6	146.3	87.1	123.6	4.3	3.5	11.7	4.9	14.4
Grayling	28,928	12,826	355.2	238.7	115.8	203.6	7.9	5.7	17.9	3.9	23.6
Greenville	13,153	4,053	316.5	220.7	95.8	195.0	(4.0)	(4.0)	12.1	(5.5)	(8.1)
Grosse Pointe	51,378	17,311	277.9	183.3	94.7	157.0	5.2	4.5	13.4	2.3	11.4
Hancock	23,539	6,542	273.4	189.0	84.4	159.8	4.3	3.2	9.1	(2.1)	14.0
Harbor Beach	5,536	2,480	287.6	194.0	93.4	168.2	(4.1)	(6.4)	11.5		(18.3)
Hastings	39,520	9,512	286.9	198.6	88.3	171.4	5.5	3.0	9.2	2.2	14.1
Hillsdale	34,346	9,221	298.6	203.3	95.3	176.4	2.8	10.8	18.1	3.5	8.9
Holland	88,225	20,711	257.9	169.1	88.6	144.2	3.3	2.6	7.2	3.5	20.4
Howell	41,178	8,245	308.6	224.1	84.8	192.0	5.5	5.7	15.3	(2.0)	7.0
Ionia	22,975	4,192	295.7	217.2	78.5	175.3	(4.3)	(2.6)	9.3	(3.5)	(15.1)
Iron Mountain	39,647	14,244	301.4	218.6	82.9	188.2	3.9	2.3	7.6	3.2	10.7
Iron River	8,921	4,686	303.1	216.6	86.7	189.0	4.3	(3.2)	11.2		7.2
Ironwood	22,405	10,449	266.7	179.5	87.2	151.5	3.6	2.6	9.0	1.1	22.6
Ishpeming	11,725	4,059	284.3	196.4	87.9	163.2	(7.1)	(4.7)	13.7	(2.9)	(9.0)
Jackson	155,656	39,348	300.6	204.5	96.0	178.0	6.1	6.0	16.8	3.3	12.3
Kalamazoo	274,951	61,468	240.0	143.2	96.5	121.6	5.6	9.6	15.6	4.1	10.6

Hospital Service Area	Resident Population	Medical Enrollees (1992 plus 1993)	All Discharges	All Medical Discharges	All Surgical Discharges	High Variability Medical Conditions	CABG Surgery	PTCA	Coronary Angiography	Back Surgery	TURP for BPH
Lakeview	6,000	1,196	295.0	219.7	75.7	192.7			(13.7)		
L'Anse	9,894	4,062	366.2	276.0	90.8	244.2	(8.6)	(3.5)	9.1	(3.5)	(14.1)
Lansing	403,887	66,431	291.3	194.4	96.8	168.2	6.3	4.7	15.1	2.8	8.7
Lapeer	74,527	13,664	319.9	222.7	97.2	189.3	5.2	3.2	9.3	3.2	13.1
Laurium	12,722	6,186	281.8	192.0	89.8	161.1	6.6	3.8	12.2	(1.8)	16.7
Livonia	170,245	49,348	292.3	201.0	91.2	172.9	5.5	5.1	14.3	2.2	15.1
Ludington	25,989	10,160	275.5	181.1	94.0	151.9	3.6	3.5	7.8	3.6	12.0
Madison Heights	52,414	12,569	351.6	252.6	99.2	219.3	6.7	6.7	18.8	2.3	15.9
Manistee	20,195	7,608	302.9	206.4	96.4	175.7	6.2	4.3	10.1	(2.9)	8.1
Manistique	9,668	3,871	282.7	189.1	93.4	156.3	(5.8)	(3.9)	11.1		(8.3)
Marlette	7,277	1,971	325.7	227.4	98.3	193.3	(6.9)	(5.9)	12.0		(16.9)
Marquette	64,716	13,892	289.8	198.2	91.5	170.3	5.7	4.8	15.0	2.4	8.9
Marshall	22,525	5,523	291.0	191.6	99.1	162.4	6.1	10.1	15.1	(2.8)	11.5
Midland	73,291	18,912	316.5	219.4	97.0	192.8	5.7	6.4	14.9	3.7	10.7
Milford	84,255	13,001	324.0	235.1	89.4	207.1	5.4	5.9	13.5	2.5	13.3
Monroe	83,568	19,246	332.8	223.7	108.9	193.3	3.6	4.1	11.0	3.3	11.6
Mount Clemens	316,640	66,251	325.5	227.4	98.2	196.6	6.2	6.1	16.9	2.5	14.1
Mount Pleasant	41,455	7,689	288.5	188.5	99.6	159.7	5.1	3.9	11.2	(4.1)	12.0
Munising	5,066	2,052	313.0	227.0	86.3	202.8	(7.6)	(7.3)	18.0		
Muskegon	172,932	46,861	251.7	158.4	93.0	131.8	4.7	3.4	10.2	3.4	12.0
Newberry	7,521	3,270	370.4	270.5	100.4	243.2	(6.7)	(5.7)	13.6	(4.7)	(14.7)
Niles	55,328	16,231	306.3	209.9	96.4	181.4	5.3	5.3	12.4	2.7	9.4
Northport	1,663	810	(305.9)	(218.6)	(87.5)	(197.2)			(18.6)		
Ontonagon	5,090	1,745	389.0	286.5	102.6	245.0	(6.1)		11.3		(22.8)
Owosso	61,109	14,592	302.4	194.4	107.6	171.0	7.1	4.3	14.9	3.5	14.9
Paw Paw	28,738	6,868	280.4	184.4	96.1	158.3	6.3	6.8	13.3	(3.5)	12.9
Petoskey	62,514	20,585	277.3	186.6	90.4	162.8	5.2	5.0	14.2	2.9	10.2
Pigeon	6,523	3,467	313.9	202.8	110.2	170.5	(4.9)	(9.3)	15.7	(4.4)	(24.1)
Pontiac	306,985	53,978	342.5	246.3	96.4	214.3	5.4	4.9	17.2	4.2	13.1
Port Huron	125,397	34,650	302.4	205.6	96.7	176.1	6.2	4.8	14.7	2.1	10.3
Reed City	16,909	7,033	311.3	219.9	91.5	187.7	3.7	3.6	10.9	(3.9)	13.5
Rochester	100,554	17,737	326.0	229.1	97.0	201.0	5.2	5.1	15.3	2.8	14.4
Royal Oak	335,803	92,724	273.9	182.0	91.7	157.2	5.7	6.9	16.6	2.8	12.9
Saginaw	229,761	55,377	320.1	208.6	111.5	183.6	8.1	9.1	21.1	3.3	16.6
Saline	13,356	2,248	299.5	215.1	84.5	186.9		(5.6)	15.3		(14.0)
Sandusky	6,499	2,279	283.2	186.6	96.3	155.4	(8.8)	(6.3)	13.7		
Sault Ste Marie	34,126	8,583	289.1	204.1	85.1	172.0	4.5	3.6	10.7	(2.7)	5.2
South Haven	23,447	6,422	266.6	178.4	88.3	150.2	6.9	6.0	10.9	(3.0)	14.0
Southfield	51,405	17,411	295.5	203.9	91.8	176.3	7.3	7.4	18.6	2.1	13.1
St Clair	27,663	7,851	322.8	232.1	90.9	196.8	5.7	5.1	11.3	(1.7)	10.3
St Johns	16,472	3,447	260.3	171.7	88.5	145.0	(5.4)		8.9	(3.7)	(14.4)
St Joseph	106,962	28,285	268.9	175.5	93.4	150.2	5.5	9.5	21.5	3.4	5.9
Standish	11,090	3,267	377.8	261.4	116.3	227.8	(8.4)	(13.9)	23.7		(10.9)
Sturgis	25,950	7,068	274.6	177.3	97.2	153.6	3.9	9.1	10.5	(2.6)	18.0
Tawas City	33,553	14,011	295.7	189.8	104.9	164.9	8.1	7.5	15.7	3.2	8.7
Taylor	70,811	11,224	389.3	286.6	104.0	251.9	9.5	6.6	19.0	2.4	9.2
Tecumseh	22,916	5,141	298.5	205.0	93.4	169.7	5.1	5.1	13.8	(3.5)	10.6

Hospital Service Area	Resident Population	Medicare Enrollees (1992 plus 1993)	All Discharges	All Medical Discharges	All Surgical Discharges	High Variability Medical Conditions	CRAG Surgery	PTCA	Coronary Angiography	Back Surgery	TURP for BPH
Three Rivers	32,083	7,790	249.6	159.5	89.9	135.2	4.2	9.9	13.1	(3.2)	15.0
Traverse City	123,554	37,566	296.3	195.6	100.1	172.6	6.8	6.6	17.3	3.9	8.9
Trenton	82,444	16,001	315.8	226.6	89.7	195.0	6.1	5.7	14.6	1.3	12.9
Troy	110,595	18,153	323.4	224.5	98.8	194.2	6.1	7.2	18.1	2.5	19.5
Warren	238,759	72,008	337.6	237.8	99.9	204.7	6.3	9.2	22.5	2.2	15.1
Watervliet	13,163	3,563	325.7	231.6	94.1	201.4	(4.4)	(12.6)	21.1	(3.9)	
Wayne	159,077	34,091	374.6	269.6	104.9	236.2	5.2	5.9	16.3	2.5	16.8
West Branch	29,742	12,278	384.1	264.9	118.9	233.0	7.8	9.1	19.4	4.0	16.2
Wyandotte	146,521	40,653	335.5	240.2	95.6	206.0	7.5	5.1	14.1	1.4	13.1
Zeeland	15,649	3,547	257.0	173.5	83.4	149.6		(3.0)	6.6	(4.1)	(16.3)
Ohio											
Akron	448,050	124,914	339.5	242.5	97.0	212.4	6.3	5.5	19.3	3.1	10.0
Alliance	49,003	16,303	290.6	200.1	90.4	172.2	6.1	2.7	13.6	2.5	18.3
Ashland	39,737	10,581	266.5	187.5	79.1	163.2	6.1	3.4	13.0	2.0	9.8
Ashtabula	51,352	15,363	348.1	256.9	91.6	228.6	5.6	3.8	12.8	1.4	12.9
Athens	44,152	7,297	325.5	233.2	92.4	199.7	5.6	3.9	15.0		14.5
Barberton	58,441	17,633	389.5	287.9	102.3	251.5	7.3	4.4	18.6	2.7	13.3
Barnesville	22,508	7,304	428.8	333.7	95.1	285.0	4.0	5.0	19.5	(2.0)	14.3
Batavia	42,809	10,681	393.1	295.9	97.9	263.0	6.6	4.8	19.0	3.4	15.8
Bedford	33,014	10,255	364.8	258.8	106.1	226.7	6.2	4.2	15.4	2.6	16.6
Bellaire	22,777	8,821	411.5	312.0	100.3	268.6	5.6	4.6	20.2	(2.8)	12.1
Bellefontaine	44,148	12,490	320.9	221.3	99.5	190.4	7.1	6.3	21.3	2.4	13.2
Bellevue	24,011	6,002	364.3	261.6	103.0	218.1	5.0	3.3	11.3	(3.3)	18.3
Bluffton	8,081	2,646	264.1	179.6	84.8	155.5	(7.0)	(9.3)	25.6		(17.1)
Bowling Green	58,997	11,188	342.6	244.0	98.6	210.1	3.9	4.4	13.1	3.4	16.1
Bryan	41,316	11,178	317.7	222.4	95.3	185.9	4.8	6.4	11.7	1.9	11.7
Bucyrus	21,211	6,373	307.0	210.7	96.2	182.2	4.1	6.4	18.0		21.9
Cadiz	10,563	3,907	352.3	263.2	89.4	224.9	(4.7)	(4.0)	15.8		(11.2)
Cambridge	53,895	15,927	370.9	275.7	95.4	244.7	4.4	5.7	17.1	1.7	15.5
Canton	268,826	81,317	286.7	198.3	88.3	169.3	5.6	4.0	15.4	2.8	9.8
Chardon	50,047	9,828	317.0	215.2	101.7	187.2	3.8	2.8	9.7	3.9	10.9
Chillicothe	74,261	17,993	358.0	270.9	87.5	231.8	4.6	6.6	22.0	2.2	9.3
Cincinnati	1,102,793	265,087	314.8	219.2	95.7	191.0	5.7	5.2	17.9	3.2	13.8
Circleville	21,875	5,631	296.9	207.4	89.5	176.5	4.1	8.4	16.7	(3.1)	10.3
Cleveland	953,736	254,305	341.2	240.2	100.9	210.1	5.9	4.3	16.8	2.7	12.3
Coldwater	37,723	10,437	340.1	247.3	93.2	217.2	5.4	4.5	16.4	3.1	11.5
Columbus	1,108,432	212,938	315.8	214.0	101.8	186.7	4.7	6.2	20.4	2.7	14.2
Conneaut	18,072	5,669	335.1	243.5	92.0	212.7	4.8	3.9	14.8	(2.5)	14.1
Coshocton	32,878	9,625	366.0	274.1	92.3	240.0	4.4	5.9	15.1	1.6	12.3
Dayton	534,433	122,965	311.4	209.6	101.8	183.2	7.1	6.2	21.6	3.2	12.4
Defiance	37,492	8,862	313.6	218.2	95.4	185.6	4.4	2.6	9.9	(3.5)	10.6
Delaware	36,873	7,894	327.2	238.8	88.6	203.6	5.5	4.2	16.1	(2.1)	12.8
Dennison	18,574	5,140	333.2	248.0	85.8	220.0	4.4		11.3	(2.4)	8.3
Dover	53,598	16,969	287.2	199.1	88.1	169.9	4.3	3.4	11.0	3.5	8.7
East Liverpool	48,817	15,174	417.6	325.9	93.3	286.9	5.7	5.7	16.9	1.9	16.3
Elyria	105,467	22,955	355.1	237.4	117.4	206.9	6.2	10.9	26.6	2.3	14.0
Euclid	61,147	24,757	301.8	207.1	94.8	176.0	7.1	3.0	15.8	3.3	10.8

Hospital Service Area	Resident Population	Medicare Enrollees (1992 plus 1993)	All Discharges	All Medical Discharges	All Surgical Discharges	High Variability Medical Conditions	CABG Surgery	PTCA	Coronary Angiography	Back Surgery	TURP for BPH
Findlay	69,747	17,625	293.0	195.5	97.3	164.5	4.1	5.7	15.1	4.2	11.3
Fostoria	22,243	6,278	362.9	268.0	95.2	233.3	3.2	4.9	9.2	(3.9)	14.8
Fremont	43,779	12,058	295.5	192.5	102.7	162.9	4.2	3.5	12.6	4.2	17.6
Galion	25,792	7,583	398.7	293.5	105.8	254.4	4.7	8.4	23.5	(2.0)	18.0
Gallipolis	68,718	17,919	378.2	280.8	97.7	246.9	4.3	5.1	17.1	1.0	13.5
Garfield Heights	57,965	21,694	382.7	271.8	111.1	235.6	6.4	5.5	21.0	1.9	14.0
Geneva	17,673	4,520	368.8	272.3	97.2	240.8	5.0	(3.1)	12.7	(2.7)	(13.9)
Georgetown	24,440	6,519	359.7	266.0	93.8	234.5	6.3	6.8	18.8	(2.9)	16.1
Greenfield	9,107	2,625	342.9	262.6	80.7	229.9		(4.4)	13.1		
Greenville	43,145	12,897	277.5	186.9	90.6	160.0	6.7	6.3	16.5	2.8	12.5
Hamilton	149,045	33,738	304.6	215.0	89.6	186.1	5.4	5.9	16.2	2.4	15.5
Hicksville	6,504	1,680	307.0	222.0	85.2	191.5			21.6		
Hillsboro	19,825	6,304	343.5	246.5	97.1	217.6	6.9	7.9	20.6		23.8
Ironton	29,285	8,558	474.3	379.6	96.1	334.6	4.6	4.2	15.6	(1.8)	15.4
Kenton	22,059	6,031	335.6	234.5	101.2	202.2	6.9	6.6	18.1	(2.5)	15.5
Kettering	199,811	53,169	270.9	175.3	95.2	153.3	5.8	4.1	17.0	2.3	12.6
Lakewood	59,702	14,596	371.9	259.5	112.4	226.6	6.7	6.2	20.6	2.2	19.2
Lancaster	74,606	19,507	348.5	249.3	99.3	216.9	4.3	8.3	21.8	3.2	9.0
Lima	176,674	46,045	308.0	211.6	96.3	183.5	5.7	6.5	16.8	3.7	9.2
Lodi	8,567	1,924	370.6	282.1	89.2	245.0			8.6		
Logan	20,448	5,407	378.9	279.0	100.4	242.6	5.6	6.3	20.6	(2.5)	8.3
London	19,971	3,693	407.5	306.6	101.6	267.6	(3.9)	(2.9)	14.6		(8.9)
Lorain	135,692	34,940	375.9	264.2	111.7	230.0	5.1	7.9	18.8	3.0	13.2
Loudonville	4,767	1,668	239.7	153.4	86.1	133.9			14.7		
Mansfield	115,010	29,589	299.2	216.8	82.6	191.2	4.6	4.7	14.7	1.8	10.5
Marietta	60,139	16,036	358.3	245.9	112.3	212.4	4.5	4.9	15.5	1.4	28.9
Marion	72,421	19,377	342.3	236.7	105.5	204.4	7.4	8.5	25.3	1.5	17.3
Martins Ferry	25,724	10,173	410.1	307.9	102.9	268.9	5.1	5.3	20.5	3.0	17.9
Marysville	23,385	5,018	362.7	265.8	97.2	235.0	4.8	6.2	18.6		13.7
Massillon	100,327	25,525	303.4	215.2	88.3	184.3	5.4	3.7	14.0	2.6	11.8
Maumee	79,703	17,290	367.8	258.3	109.6	222.4	4.3	5.5	16.6	3.5	14.3
Mayfield Heights	61,824	26,345	293.2	194.8	98.2	166.5	5.9	2.6	13.9	3.9	8.8
Medina	50,462	10,478	327.6	231.8	95.9	196.2	5.6	3.5	9.4	3.5	9.3
Middletown	107,263	25,598	317.7	218.1	99.4	190.6	7.7	6.2	21.2	2.3	10.9
Millersburg	30,452	4,761	226.4	153.3	73.1	126.3	4.0	(3.0)	8.7		7.3
Mount Gilead	14,644	3,691	316.2	223.6	92.6	195.7	(3.6)	(6.2)	17.6		(19.7)
Mount Vernon	55,113	15,504	325.6	220.8	104.5	187.5	3.9	5.5	14.1	2.0	15.4
Napoleon	19,250	4,965	297.6	204.0	93.5	178.5	4.9	(4.9)	12.2	(2.6)	15.8
Nelsonville	15,150	4,117	335.0	246.8	88.8	218.8	(4.1)	(3.9)	12.4	(3.0)	(13.3)
Newark	97,767	24,730	276.2	179.6	96.3	151.4	4.8	5.6	13.0	1.7	13.8
Norwalk	41,332	10,040	337.6	232.0	105.5	196.8	5.4	4.8	12.1	2.4	15.6
Oberlin	21,501	5,215	293.2	201.7	91.6	176.5	4.0	(4.7)	11.9		11.6
Oregon	88,211	21,831	400.3	289.2	111.5	255.4	3.5	4.2	11.1	3.2	12.8
Orrville	13,821	3,386	242.1	161.2	80.7	131.9	(5.2)		13.4		(18.0)
Oxford	44,301	7,449	332.0	243.4	88.7	211.0	6.7	5.4	14.0	(2.1)	12.0
Painesville	195,446	46,667	301.3	205.9	95.2	174.1	5.7	3.5	13.8	2.7	8.5
Parma/Middleburg Hts	280,489	78,234	327.3	229.1	98.2	196.9	5.8	3.3	14.8	2.8	11.9

Hospital Service Area	Resident Population	Medical Enrollees (1992 plus 1993)	All Discharges	All Medical Discharges	All Surgical Discharges	High Variability Medical Conditions	CABG Surgery	PTCA	Coronary Angiography	Back Surgery	TURP for BPH
Paulding	13,897	3,540	344.0	246.1	98.0	214.9	(5.7)	(6.8)	16.8	(3.6)	(14.2)
Piqua	45,920	12,025	347.2	259.9	87.7	226.6	4.7	4.2	12.2	2.7	8.7
Pomeroy	13,676	3,771	333.9	238.3	95.6	208.8	(5.6)	(3.1)	14.3		(17.4)
Port Clinton	26,825	8,970	369.0	256.2	112.8	219.8	5.3	4.0	11.2	3.4	14.9
Portsmouth	97,331	27,675	385.2	287.4	98.1	251.0	4.2	5.5	17.9	1.5	14.4
Ravenna	123,332	23,104	348.6	243.4	105.2	211.7	6.4	6.3	20.1	2.3	8.8
Salem	70,225	21,043	330.4	234.8	95.7	201.6	5.1	4.4	13.9	2.6	19.2
Sandusky	67,299	19,238	369.0	260.8	108.2	227.6	5.8	3.9	12.5	3.8	16.3
Shelby	16,207	4,589	278.8	191.2	87.5	165.3	(4.4)	(8.0)	15.5		
Sidney	36,536	8,700	376.5	279.8	96.9	246.7	6.4	6.6	16.3	(1.8)	10.6
Springfield	124,437	35,849	322.1	214.7	107.5	182.2	8.7	8.2	28.0	2.8	9.1
St Marys	26,598	7,653	399.5	297.1	102.8	265.5	7.5	6.2	22.4	(3.7)	9.2
Steubenville	68,262	22,759	369.2	271.9	97.8	236.7	6.6	5.8	17.8	2.4	13.2
Sylvania	39,492	9,798	303.0	202.0	100.8	173.8	5.6	3.7	14.3	4.3	10.0
Tiffin	36,226	10,771	359.4	256.8	102.8	225.3	3.1	5.7	11.6	3.3	10.3
Toledo	382,633	100,285	356.3	248.6	107.7	217.6	4.5	4.1	14.9	3.3	13.9
Troy	50,113	12,227	294.9	201.0	93.8	173.5	5.5	4.1	11.7	3.0	13.4
Upper Sandusky	12,766	4,166	308.9	209.8	99.1	178.5	(3.4)	(7.9)	17.5		(14.0)
Urbana	28,018	6,989	311.4	215.1	96.3	184.4	7.0	2.7	16.9	(3.1)	11.4
Van Wert	31,165	8,927	261.8	186.4	75.5	156.5	4.4	5.2	13.9	(2.4)	5.1
Wadsworth	38,426	10,243	326.7	232.7	94.1	202.6	5.5	5.0	16.8	3.2	9.5
Warren	181,045	51,556	413.5	301.5	112.4	263.1	6.0	4.1	15.7	2.3	17.9
Washington Ct House	25,359	7,222	301.1	213.5	87.7	183.5	4.0	6.1	16.3		11.2
Wauseon	31,811	8,011	283.3	195.2	88.1	168.2	5.9	4.6	13.4	(2.8)	13.3
Waverly	21,717	6,110	358.7	276.2	82.8	239.4	4.7	4.8	14.6		13.2
West Union	22,044	5,373	368.6	295.9	73.7	260.3	5.3	4.8	17.2	(2.3)	9.0
Westlake	51,431	14,677	317.6	218.4	99.2	189.0	6.1	4.3	16.7	1.6	14.8
Willard	18,070	3,908	305.1	220.4	84.9	189.5	(4.1)	(3.9)	13.8		(8.0)
Wilmington	44,156	11,671	378.9	283.2	96.1	250.7	6.3	5.4	19.4	2.0	11.8
Wooster	67,900	15,771	297.0	217.9	79.4	181.8	4.0	2.7	10.9	2.0	14.7
Xenia	53,694	11,771	289.7	201.0	88.7	175.7	5.5	3.3	13.3	2.4	16.4
Youngstown	302,953	105,322	329.2	227.7	101.4	198.4	5.7	4.4	16.7	2.6	14.8
Zanesville	121,637	33,590	327.0	237.8	89.3	208.5	3.6	5.1	16.8	1.7	9.2
Wisconsin											
Amery	11,473	3,972	294.8	203.0	91.8	178.8	(3.2)	(3.7)	11.5		(13.2)
Antigo	24,255	9,092	284.1	194.1	89.9	166.6	5.2	4.4	13.1	1.9	15.8
Appleton	165,528	38,960	248.2	154.6	93.4	132.0	5.0	6.0	15.3	2.7	15.2
Arcadia	4,707	1,308	266.4	191.7	74.6	162.3			(9.1)		
Ashland	27,562	9,575	319.6	221.7	97.9	189.0	3.1	4.1	12.4	2.0	25.5
Baldwin	8,876	2,295	364.9	280.4	84.2	249.3			12.6		
Baraboo	25,198	8,290	293.8	208.4	85.4	175.5	3.7	2.9	11.3	(4.1)	11.2
Barron	13,460	5,509	324.6	235.9	88.3	198.8	3.3	2.9	13.1	(2.4)	13.7
Beaver Dam	42,292	13,111	288.7	187.5	101.0	165.3	3.6	4.1	11.0	2.2	21.2
Beloit	56,951	15,211	298.3	209.9	88.5	181.3	4.2	6.0	19.5	1.1	9.1
Berlin	35,674	14,582	283.9	192.9	90.8	166.7	5.3	4.1	15.1	2.9	8.6
Black River Falls	13,272	4,688	312.1	230.3	81.8	198.5	3.9		13.6		8.6
Bloomer	8,511	2,847	297.9	205.9	92.0	170.5	(5.7)	(3.7)	16.4	(5.5)	(11.4)

Hospital Service Area	Resident Population	Medicaid Enrollees (1992 plus 1993)	All Discharges	All Medical Discharges	All Surgical Discharges	High Variability Medical Conditions	CABG Surgery	PTCA	Coronary Angiography	Back Surgery	TURP for BPH
Boscobel	6,750	2,159	333.6	228.7	104.8	188.6	(6.9)		13.8		(11.6)
Brookfield	35,205	10,494	254.0	166.3	87.0	142.3	4.4	5.5	17.3	3.6	15.1
Burlington	45,794	11,169	297.2	202.2	94.9	174.5	4.9	7.7	18.7	2.3	11.1
Chilton	13,320	4,053	261.9	173.6	88.3	148.1	(3.8)	(3.8)	9.4		(17.4)
Chippewa Falls	38,098	10,877	292.8	210.8	82.1	178.6	3.7	2.7	11.8	2.0	7.1
Columbus	11,609	3,618	323.9	240.6	83.4	209.1		(4.8)	11.7		(10.5)
Cudahy	59,130	15,023	373.2	254.6	118.3	224.7	8.5	15.8	38.8	2.3	8.5
Cumberland	10,734	3,546	326.8	231.9	95.0	199.3	(5.2)	(4.8)	14.5		(12.5)
Darlington	6,348	2,188	306.8	217.6	89.3	183.5	(7.2)		18.3		
Dodgeville	17,088	5,134	267.8	186.7	81.1	156.8	4.6	2.6	8.0		7.2
Durand	8,320	3,057	314.3	215.8	98.7	180.4	(4.9)	(4.9)	15.9		(12.0)
Eagle River	7,765	3,701	311.4	217.3	94.2	196.5	(4.9)	(4.2)	12.0		(18.0)
Eau Claire	105,310	27,961	287.8	201.4	86.4	164.9	5.1	4.1	16.4	3.9	8.5
Edgerton	9,749	2,891	340.8	246.3	94.8	208.7	(4.9)	(5.2)	11.3		(9.0)
Elkhorn	46,493	14,858	278.7	189.0	89.6	158.0	6.5	6.5	21.1	2.3	11.1
Fond Du Lac	84,518	23,883	246.2	158.5	87.6	132.8	5.6	7.2	18.0	2.9	10.1
Fort Atkinson	57,842	15,286	321.4	226.3	95.1	197.8	4.7	4.7	13.7	1.4	10.3
Friendship	10,690	4,010	312.6	221.1	91.7	193.0	(5.0)	(4.3)	17.3		(8.9)
Grantsburg	8,875	3,835	329.1	242.6	87.1	208.6	(7.0)	(6.5)	16.8		(9.8)
Green Bay	248,264	58,637	260.9	166.4	94.3	140.3	4.2	2.6	9.3	2.5	15.0
Hartford	26,138	5,908	293.7	190.1	103.2	159.7	6.0	7.4	18.8	(2.3)	12.7
Hayward	11,378	4,368	322.0	229.9	92.3	192.6	4.8	(3.4)	10.8		17.4
Hillsboro	8,759	3,044	271.3	196.5	74.7	171.6	(4.4)		13.0		(11.3)
Hudson	18,199	2,676	288.2	201.0	87.3	175.5		(4.1)	9.2	(4.5)	(15.6)
Janesville	72,515	17,738	292.6	201.5	91.1	175.8	4.7	4.1	13.3	1.9	13.3
Kenosha	119,657	29,315	333.0	232.0	101.0	205.3	7.1	3.7	19.3	2.7	12.4
Kewaunee	6,262	1,919	234.6	157.5	77.2	130.6			5.6		
La Crosse	175,351	50,000	273.4	192.0	81.4	166.9	5.2	2.9	15.7	1.1	8.9
Ladysmith	16,156	5,858	292.0	206.0	86.1	176.0	3.8	2.4	11.8		14.3
Lancaster	11,411	3,599	303.2	211.9	91.3	175.7	(4.4)	(6.9)	12.9		(7.9)
Madison	360,310	68,833	263.1	172.5	90.5	149.1	5.1	4.1	13.1	2.3	13.0
Manitowoc	49,792	17,820	286.1	198.6	87.6	167.1	4.0	2.8	10.2	2.8	9.1
Marinette	49,674	17,873	279.5	187.9	91.5	161.5	5.4	2.8	10.4	3.6	15.7
Marshfield	82,320	23,924	282.0	192.3	89.7	168.2	5.3	3.9	19.3	1.9	11.2
Mauston	17,009	6,154	373.9	284.4	90.1	247.3	4.8	5.9	17.8		20.6
Medford	14,849	4,589	285.1	189.1	96.0	160.4	4.6	(4.0)	15.2		17.7
Menomonee Falls	64,518	14,235	286.8	187.4	98.9	160.1	5.9	7.8	19.6	1.5	20.7
Menomonie	33,129	8,493	271.7	184.1	87.8	151.7	5.9	3.3	13.0	(3.4)	8.1
Merrill	21,244	6,468	291.4	191.8	99.7	163.3	3.5	4.8	15.8		15.1
Milwaukee	886,823	229,485	305.9	204.4	101.7	179.9	6.6	9.0	24.8	2.4	13.7
Monroe	37,602	11,512	296.2	185.1	111.0	157.4	6.0	3.5	17.3	1.1	18.5
Neenah	58,629	13,915	277.0	176.1	100.8	150.3	6.3	5.3	18.6	2.3	14.0
Neillsville	4,904	2,249	356.9	269.0	87.1	244.5			13.8		
New London	17,274	4,549	307.0	215.3	91.7	183.3	(4.5)	(3.5)	14.4		17.7
New Richmond	17,797	3,175	322.4	221.7	100.7	195.0	(3.3)	(4.9)	9.3		(12.6)
Oconomowoc	40,173	9,866	288.4	191.2	97.1	165.4	5.6	10.4	24.4	2.6	12.4
Oconto Falls	10,389	4,124	285.4	193.7	91.7	164.8	(2.9)		7.5	(2.8)	(11.3)

Hospital Service Area	Resident Population	Medical Enrollees (1992 plus 1993)	All Discharges	All Medical Discharges	All Surgical Discharges	High Variation Medical Conditions	CABG Surgery	PTCA	Coronary Angiography	Back Surgery	TURP for BPH
Osceola	2,062	1,099	(380.5)	(298.0)	(82.1)	(253.3)			(12.7)		
Oshkosh	79,878	21,957	282.1	182.9	99.3	160.7	6.1	6.5	20.0	3.4	19.2
Park Falls	14,710	6,072	307.8	220.0	87.9	186.6	4.1	4.5	17.5		12.3
Phelps	4,062	2,028	289.0	197.9	91.1	169.8	(5.9)		11.8		(19.0)
Platteville	14,544	3,406	308.7	216.7	92.0	180.5	(6.0)	(5.5)	14.6	(3.5)	(9.9)
Plymouth	14,408	4,281	266.4	177.4	88.9	152.4	(6.0)	(4.9)	13.4		(9.6)
Port Washington	35,090	7,414	293.8	204.7	89.0	178.8	5.2	6.0	16.1	(3.4)	9.0
Portage	24,536	8,647	276.4	186.7	89.6	160.0	4.6	3.7	12.3	(2.4)	10.2
Prairie Du Chien	15,348	5,301	335.3	257.8	77.7	221.8	5.9	4.7	19.2		9.3
Prairie Du Sac	20,845	5,892	273.7	177.9	95.5	151.3	4.0	2.9	11.5	(5.3)	11.1
Racine	145,112	37,801	249.8	160.0	89.8	138.7	5.3	5.4	14.8	3.5	12.2
Reedsburg	14,075	4,952	314.4	224.6	89.9	198.3	7.4	2.1	14.2	(2.4)	9.3
Rhineland	39,410	14,432	287.2	196.8	90.3	166.8	4.5	5.3	15.2	2.1	10.2
Rice Lake	22,779	7,775	330.1	232.7	97.5	198.4	5.8	3.0	13.0	(2.4)	14.1
Richland Center	17,519	5,935	291.1	208.4	82.7	176.0	4.9	2.3	13.2	(2.0)	16.4
Ripon	10,694	3,293	274.5	197.1	77.3	168.6	(4.4)		11.0		(9.0)
River Falls	21,772	4,351	268.1	174.3	94.0	143.3	(4.6)	(4.8)	12.8	(3.5)	(23.3)
Shawano	27,822	10,136	264.2	174.8	89.2	146.6	3.3	4.9	12.4	2.6	8.9
Sheboygan	96,670	28,522	240.6	150.6	89.9	128.2	4.4	6.6	15.5	2.2	11.8
Shell Lake	9,919	3,783	339.5	250.4	89.2	218.5	(3.2)	(5.3)	11.3		(14.9)
Spooner	8,842	3,709	328.7	252.6	76.8	210.6	(3.0)	(3.5)	9.8		(9.7)
St Croix Falls	18,606	5,511	348.7	254.0	94.8	215.9	5.1	3.5	14.3		13.2
Stanley	8,524	3,291	293.3	199.9	93.4	171.2	(6.7)	(4.4)	16.9		(9.1)
Stevens Point	65,262	14,811	290.1	201.0	89.1	173.3	5.0	4.6	16.1	1.9	8.9
Stoughton	21,455	5,619	277.1	187.6	89.5	166.2	4.0	3.2	8.4	(2.1)	7.2
Sturgeon Bay	22,057	8,845	296.2	199.1	97.0	172.5	6.5	3.2	11.9	(2.5)	12.3
Tomah	15,440	4,227	301.4	223.8	78.1	195.4	(5.3)		11.2		(9.6)
Two Rivers	20,013	5,768	297.8	201.9	95.8	175.7	4.3	4.2	9.5	(2.7)	10.1
Viroqua	20,473	7,509	283.9	210.7	73.1	184.3	4.2	2.4	13.9	(1.5)	10.1
Watertown	25,240	7,549	268.2	180.5	87.8	152.2	4.0	5.9	12.7	(1.7)	13.7
Waukesha	172,054	30,873	296.7	196.6	100.0	172.5	7.2	13.7	33.2	2.0	11.5
Waupaca	21,458	8,756	286.3	199.3	87.0	174.1	3.6	4.7	10.6	(2.2)	10.0
Waupun	14,175	3,939	302.0	206.7	95.3	177.3	(4.0)	(5.0)	10.7	(3.5)	(15.3)
Wausau	95,490	25,864	243.3	152.0	91.0	130.0	5.1	5.6	15.8	2.1	13.9
West Allis	87,372	25,269	298.5	198.1	100.1	173.9	6.2	9.2	24.9	2.1	15.3
West Bend	50,585	12,917	297.4	202.6	94.8	173.1	5.1	7.0	18.4	1.7	16.1
Whitehall	8,503	3,259	336.7	253.0	83.3	217.3	(6.0)		18.3		
Wild Rose	2,127	1,262	(353.3)	(260.1)	(93.4)	(233.1)			(10.0)		
Wisconsin Rapids	44,084	13,046	270.9	177.0	93.6	149.0	6.1	3.6	18.2	1.6	6.6
Woodruff	17,526	9,116	320.7	222.5	98.2	196.6	5.0	4.8	18.3	1.9	14.4

PART SIX

**Hospital Bed Allocation and
Medicare Reimbursements
for Inpatient Services
by Hospital Service Area and
Hospital by Location**

Hospital Bed Allocation and Medicare Reimbursements for Inpatient Services by Hospital Service Area and Hospital by Location

This table provides detailed information on the contribution of individual hospitals to the experience of the population living within each hospital service area (HSA) where the proportion of acute inpatient hospital care provided to enrollees living in the area by local hospital(s) exceed a certain minimum. The criteria for appearing in this table for the Great Lakes States is that the proportion of inpatient Medicare reimbursements for area residents that occurred at local hospitals must have exceeded 50%. Because of the limitations on the length of the printed Atlas, only 188 of 544 HSAs in the region are included. Information on all HSAs in the United States is provided on the CD-ROM version of the Atlas.

For each HSA, the table lists by name all hospitals within the area which individually account for 1% or more of the 1992 and 1993 inpatient Medicare reimbursements for enrollees living in the HSA. It also lists the two out-of-area hospitals that accounted for the greatest amount of reimbursements made for residents of the HSA. The contribution of all other hospitals to the inpatient care of the enrollees resident in the HSA are summarized.

The table is organized alphabetically by state and HSA. The table for Bridgeport, Connecticut is provided as an example.

Column 1 lists the name and state of the HSA, together with the total population of the HSA.

Column 2 lists the names of local hospitals and out of area hospitals. Bridgeport Hospital and St. Vincent's Medical Center, which are both within the Bridgeport HSA, received 48.4% and 40.0% of the HSA's inpatient Medicare reimbursements for 1992 and 1993 (column 11). Among out-of-area hospitals, Yale-New Haven Hospital received 3.7% of reimbursements for residents of the Bridgeport HSA, and Norwalk Hospital received 1.3% of reimbursements for residents of the Bridgeport HSA. All other out-of-area hospitals, which included hospitals located anywhere in

Hospital Bed Allocation and Medicare Reimbursements for Inpatient Services for the Bridgeport, Connecticut HSA by Hospital by Location

	1992-93 MPDs (1,000s) (3)	% of HOSP's MPDs from HSA (4)	1992-93 MRs (\$ in millions) (5)	% of HOSP's MRs from HSA (6)	Statbed Beds (7)	Allocation of HSA Beds by HOSP (8)	% of HSA's MPDs by HOSP (9)	HSA MRs by HOSP (\$ in Millions) (10)	% of HSA's MRs by HOSP (11)
Bridgeport, CT	299,628								
Hospitals Within HSA									
Bridgeport Hospital	146.7	87.3	93.28	83.0	505	440.6	50.2	77.44	48.6
St Vincents Medical Center	123.1	86.6	82.12	78.0	391	338.6	41.8	64.06	40.2
Hospitals Outside HSA									
Yale New Haven Hospital	136.7	3.3	150.60	3.9	777	25.7	1.8	5.85	3.7
Norwalk Hospital	88.1	3.9	57.25	3.7	349	13.4	1.3	2.14	1.3
All Others						51.2	4.9	9.99	6.3
All Hospitals						869.5	100.0	159.49	100.0

the United States, received 6.6% of the inpatient reimbursements for Medicare enrollees living in the Bridgeport HSA.

Column 3 (1992-93 HOSP's MPDs) gives the total number of Medicare patient days of care in 1992 and 1993 provided by each hospital (in thousands of patient days). For example, Bridgeport Hospital provided 146.7 thousand patient days of care to residents of all areas.

Column 4 (% of HOSP's MPDs from HSA) gives the percentage of total Medicare patient days for each listed hospital in 1992 and 1993 that was provided to residents of the HSA. For example, 87.3% of Bridgeport Hospital's patient days were for residents of the local HSA. (The remaining 13.7% were for residents of all other HSAs, including neighboring HSAs as well as residents of remote HSAs from which patients might have been temporary visitors or experienced emergencies while traveling through Bridgeport.)

Column 5 (1992-93 MRs — Dollars in Millions) gives the total reimbursement for inpatient services in millions of dollars received by each individually-listed hospital.

For example, in 1992-93, the Medicare Part A database shows that reimbursements to Bridgeport Hospital were \$93.28 million for residents of all areas.

Column 6 (% of HOSP's MRs from HSA) gives the percent of total inpatient reimbursements for listed hospitals in 1992 and 1993 (column 5) that were provided to Medicare enrollees living in the HSA. For example, 83.0% of Bridgeport Hospital's reimbursements were for residents of the Bridgeport HSA.

Column 7 (Staffed Beds) gives for each listed hospital the number of staffed beds in 1993. In that year, Bridgeport Hospital had 505 staffed beds.

Column 8 (Allocation of HSA Beds by HOSP) estimates the number of hospital beds allocated to the residents of the HSA by each hospital and by all hospitals. It is obtained by multiplying the number of staffed beds (column 7) by the percent of each hospital's Medicare patient days that are for the HSA's Medicare enrollees (column 4). For example, 87.3% of Bridgeport Hospital's patient days are provided to enrollees of the HSA (column 4) and in 1993 there were 505 staffed beds. The estimated allocation of hospital beds to Bridgeport is $.8725 \times 505 = 440.6$. Of the two listed out of area hospitals, Yale-New Haven contributes an estimated 25.7 of its 777 staffed beds, and Norwalk Hospital 13.4% of its 349 beds, to the residents of Bridgeport. Estimates are made for all hospitals contributing one or more patient days to the total for the HSA. For example, the remaining out-of-area hospitals ("All Others" in column 2) contribute a total of 51.2 hospital beds to the residents of Bridgeport. Included in the All Others group would be the use residents of Bridgeport make while out of area, for example while vacationing in Florida.

The total (All Hospitals) gives the sum of all contributed beds to the care of the HSA. For example, in 1993 an estimated 869.5 hospital beds were allocated to the care of residents of Bridgeport. Hospital bed allocations are made under the assumption that the HSA boundary crossing patterns seen for Medicare patients are similar

to those among people under 65 years of age. Studies in the Northeast and in California have shown this to be a reasonable assumption.

Column 9 (% of HSA's MPDs by HOSP) gives the percent of the HSA's total patient days provided by each hospital. For example, 50.1% of the patient days for Medicare enrollees living in Bridgeport were provided by Bridgeport Hospital.

Column 10 (HSA MRs by HOSP — Dollars in Millions) gives the amount of Medicare reimbursements for inpatient services provided by each listed hospital and all other hospitals to the residents of Bridgeport. For example, Bridgeport Hospital received \$77.44 million for inpatient services provided to Medicare enrollees living in Bridgeport; Yale-New Haven Hospital received \$5.85 million, and "all other" out of area hospitals received \$10.54 million. For all inpatient care of the Medicare residents of Bridgeport in 1992 and 1993, reimbursements totaled \$160.03 million.

Column 11 (% of HSA's MRs by HOSP) gives the proportion of Medicare inpatient reimbursements received by each hospital. For example, Bridgeport Hospital received 48.4% of total reimbursements ($\$77.44/\$160.03 \times 100 = 48.4\%$).

On the Limitations of Space

The limitations on space in the printed version of the regional Atlas also make it impractical to individually list more than two out-of-area hospitals contributing to the care of a given HSA. In the case of Bridgeport, with its highly localized pattern of care, only hospitals receiving less than 1.3% of the HSA Medicare inpatient reimbursements were not individually listed. But in several HSAs, particularly those near major medical centers, truncation resulted in a much less complete picture of the patterns of resource allocation and competition among institutions for market share in the HSA. The Cambridge, Massachusetts HSA, located just across the Charles River from Boston, provides an example. In contrast to Bridgeport, where

over 88% of Medicare reimbursements for HSA enrollees were to the two local hospitals, in Cambridge, only 52.5% were provided at Mt. Auburn Hospital and Cambridge Hospital, and nine out-of-area hospitals had a 1.4% share or greater. The following table, which lists individually each out-of-area hospital whose Medicare reimbursements from the Cambridge HSA exceeded 1%, provides an appreciation of the compromise between space and detail.

Hospital Bed Allocation and Medicare Reimbursements for Inpatient Services for the Cambridge, Massachusetts HSA by Hospital by Location

	1992-3 MPDs (1,000s) (3)	% of HOSP's MPDs from HSA (4)	1992-3 MRS (\$ in millions) (5)	% of HOSP's MRS from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HOSP (8)	% of HSA's MPDs by HOSP (9)	HSA MRS by HOSP (\$ in Millions) (10)	% of HSA's MRS by HOSP (11)	
Cambridge, MA	152,358									
Hospitals Within HSA										
Mt Auburn Hosp	74.7	56.4	62.12	53.2	286	161.3	39.2	33.03	38.1	
Cambridge Hospital,The	24.1	64.5	20.54	62.7	176	113.4	14.4	12.87	14.9	
Hospitals Outside HSA										
St Elizabeths Hospital	112.8	9.7	104.34	9.1	415	40.1	10.1	9.49	11.0	
Massachusetts General Hospital	240.3	3.4	266.65	2.9	984	33.5	7.6	7.66	8.8	
Waltham Hospital	46.9	11.4	28.03	11.3	213	24.2	5.0	3.16	3.6	
Brigham And Womans Hospital	101.7	2.1	147.34	2.0	751	15.7	2.0	2.91	3.4	
Beth Israel Hospital	113.0	2.3	131.56	2.2	462	10.7	2.4	2.86	3.3	
Symmes Hospital Inc,The	43.5	9.5	27.77	8.9	109	10.3	3.8	2.46	2.8	
Newton-Wellesley Hospital	61.9	3.5	55.00	3.2	316	10.9	2.0	1.77	2.0	
Lawrence Mem Hospital Of Medford	57.0	3.7	30.17	4.3	150	5.6	2.0	1.29	1.5	
Mary And Arthur Clapham Hospital	83.6	1.5	97.70	1.2	272	4.0	1.2	1.21	1.4	
New England Deaconess Hospital	89.5	1.4	103.80	1.0	345	4.8	1.2	1.08	1.3	
New England Baptist Hospital	45.6	2.7	39.31	2.4	185	5.1	1.2	0.96	1.1	
Somerville Hospital	20.9	6.7	14.93	6.1	103	6.9	1.3	0.92	1.1	
All Others						34.4	6.6	5.01	5.8	
All Hospitals						480.9	100.0	86.68	100.0	

About the Detailed Tables Available on the CD-ROM

The CD-ROM version of the regional Atlases is not constrained by space limitations. It contains a formatted version of Table 6 (identical to that for the Cambridge, Massachusetts HSA) listing all hospitals that receive 1% or more of Medicare reimbursements from the residents of each HSA. It also provides the data required for the user to generate a patient origin study for each hospital in the United States in order to analyze the proportion of the hospital's Medicare discharges, patient days and reimbursements that come from various areas of the country.

The following table illustrates one use of this data for the Mary Hitchcock Memorial Hospital (MHMH) in Lebanon, New Hampshire. Table 6.3 lists the HSAs from which MHMH had more than 10 discharges in 1992-93. The final line of the table lists totals for all HSAs in which any discharge occurred.

Column 2 (HSA of Patient Origin) lists the hospital service areas (HSA) where Medicare enrollees (MEs) discharged from MHMH live. Only those HSAs where there were more than ten discharges of MEs are included.

Column 3 (DCHGs from any HOSP of MEs in the HSA) gives the total number of discharges (DCHGs) for MEs living in the HSA from any hospital (HOSP) anywhere in the country. For example, there were 2,950 discharges from some hospital of Medicare enrollees living in the Springfield, Vermont hospital service area in 1992-93.

Column 4 (DCHGs of MEs in the HSA from MHMH) counts the discharges (DSHG) from Mary Hitchcock Memorial Hospital (MHMH) of Medicare enrollees (MEs) living in the HSA in 1992-93. For example, there were 533 discharges from MHMH for MEs living in the Springfield, Vermont hospital service area.

Column 5 (MHMH % of HSA DCHGs) gives the percentage of all Medicare enrollee discharges (DCHGs) in an HSA that came from MHMH in 1992-93. MHMH accounted for 18.1% of the discharges for Medicare enrollees living in Springfield, Vermont in 1992-93.

Medicare Discharges, Patient Days of Care and Inpatient Reimbursements to Mary Hitchcock Memorial Hospital by HSA and Hospital Referral Region (HRR) of Enrollee Residence, 1992-93

Hospital Service Areas with Ten or Fewer Discharges from MHMH are not Shown

	(2) HSA of Patient Origin	(3) DCHGs from any HOSP of MEs in the HSA	(4) DCHGs of MEs in the HSA from MHMH	(5) MHMH % of HSA DCHGs	(6) All MRs for MEs in the HSA (\$ in millions)	(7) MRs to MHMH for HSA MEs (\$ in millions)	(8) MHMH % of HSA MRs	(9) MPDs in any HOSP for MEs in the HSA	(10) MPDs in MHMH for MEs in the HSA	(11) MHMH % of HSA MPDs
Mary Hitchcock Memorial Hospital, Lebanon, NH										
Hospital Service Areas with more than 10 Medicare Discharges from Mary Hitchcock Memorial Hospital										
Lebanon, NH	3,706	2,762	74.5	24.71	19.70	79.7	30,684	23,861	77.8	
Springfield, VT	2,950	533	18.1	15.32	5.19	33.9	22,661	5,375	23.7	
Keene, NH	4,010	393	9.8	22.31	4.94	22.1	38,545	4,805	12.5	
Claremont, NH	2,007	392	19.5	10.52	3.47	33.0	12,975	3,192	24.6	
New London, NH	1,876	345	18.4	10.35	3.49	33.7	13,456	3,510	26.1	
Woodsville, NH	1,337	335	25.1	7.69	3.00	39.0	9,274	3,364	36.3	
Berlin, NH	2,409	288	12.0	11.63	2.93	25.2	19,065	2,838	14.9	
Randolph, VT	1,323	269	20.3	6.87	2.72	39.5	8,812	2,556	29.0	
Berlin, VT	4,140	240	5.8	21.59	2.60	12.0	32,610	2,471	7.6	
St Johnsbury, VT	1,717	225	13.1	8.33	2.02	24.3	10,461	2,056	19.7	
Newport, VT	2,086	217	10.4	9.99	2.33	23.3	12,224	1,915	15.7	
Brattleboro, VT	2,035	215	10.6	10.78	2.79	25.9	18,538	2,257	12.2	
Lancaster, NH	1,492	168	11.3	7.01	1.85	26.4	10,299	1,592	15.5	
Greenfield, MA	5,014	166	3.3	28.61	1.93	6.7	35,780	1,764	4.9	
Windsor, VT	677	131	19.4	3.38	1.04	30.8	4,451	1,032	23.2	
Concord, NH	6,724	131	2.0	38.90	1.40	3.6	62,709	1,412	2.3	
Littleton, NH	1,019	129	12.7	5.33	1.21	22.7	6,792	1,279	18.8	
Laconia, NH	3,941	127	3.2	22.10	1.00	4.5	29,204	1,355	4.6	
Plymouth, NH	1,136	119	10.5	6.43	1.09	16.9	7,903	1,327	16.8	
Rutland, VT	6,240	119	1.9	31.77	1.13	3.6	55,757	987	1.8	
Franklin, NH	2,037	77	3.8	10.25	0.72	7.0	14,852	1,123	7.6	
Bennington, VT	4,505	66	1.5	22.35	0.73	3.3	37,923	710	1.9	
Peterborough, NH	1,947	61	3.1	11.48	0.58	5.0	15,842	788	5.0	
Colebrook, NH	566	58	10.3	2.56	0.57	22.2	3,929	770	19.6	
Wolfeboro, NH	2,253	58	2.6	11.81	0.42	3.6	15,178	619	4.1	
Manchester, NH	10,834	56	0.5	62.72	0.52	0.8	100,758	789	0.8	
Townshend, VT	332	39	11.8	1.65	0.42	25.1	1,811	266	14.7	
Morrisville, VT	1,607	36	2.2	8.57	0.26	3.0	11,925	218	1.8	
Nashua, NH	7,690	36	0.5	48.85	0.33	0.7	80,075	302	0.4	
Rochester, NH	2,727	31	1.1	15.46	0.26	1.7	22,565	298	1.3	
North Conway, NH	1,118	25	2.2	5.92	0.23	3.8	7,729	308	4.0	
Northampton, MA	5,761	23	0.4	29.65	0.22	0.7	44,077	189	0.4	
Burlington, VT	6,493	13	0.2	41.25	0.11	0.3	62,850	124	0.2	
Dover, NH	3,877	13	0.3	21.34	0.12	0.6	32,592	114	0.4	
Glens Falls, NY	10,321	13	0.1	52.59	0.18	0.4	114,229	237	0.2	
Exeter, NH	4,428	11	0.3	27.41	0.05	0.2	35,381	88	0.3	
Boca Raton, FL	21,085	11	0.1	121.46	0.06	0.1	154,755	117	0.1	
Naples, FL	20,662	11	0.1	123.75	0.10	0.1	153,644	83	0.1	
MHMH Totals for All HSAs Served		8,568			76.93			82,589		

Column 6 (All MRs for MEs in the HSA [\$ in millions]) gives the Medicare Reimbursements (MRs) for the Medicare Enrollees (MEs) living in the HSA independently of the Hospital of their choice. Overall Medicare dollars benefiting the Medicare enrollees living in the Springfield, Vermont HSA totaled \$24,720,000 in 1992-93.

Column 7 (MRs to MHMH for HSA MEs [\$ in millions]) gives the Medicare reimbursements (MRs) to MHMH for enrollees who live in the specified HSA. MHMH received \$5,190,000 in Medicare reimbursements for serving Medicare enrollees who live in the Springfield, Vermont hospital service area.

Column 8 (MHMH % of HSAs MRs) gives the percentage of all Medicare reimbursements (MRs) benefiting enrollees of an HSA that were received by MHMH. Mary Hitchcock Memorial Hospital received 33.9% of Medicare reimbursements paid for the benefit of enrollees in the Springfield, Vermont HSA in 1992-93.

Column 9 (MPDs in any HOSP for MEs in the HSA) gives the Medicare patient days (MPDs) spent in any hospital (HOSP) by the Medicare enrollees (MEs) living in the HSA. Medicare enrollees from the Springfield, Vermont HSA spent 22,661 days in hospitals in 1992-93.

Column 10 (MPDs in MHMH for MEs in the HSA) gives the Medicare patient days (MPDs) spent in MHMH by Medicare enrollees of the HSA. Medicare enrollees in the Springfield, Vermont HSA spent 5,375 days at MHMH in 1992-93.

Column 11 (MHMH % of HSAs MPDs) gives the percentage of all patient days spent by enrollees living in an HSA that were spent at MHMH. Mary Hitchcock Memorial Hospital provided 23.7% of the patient days required by Medicare enrollees living in the Springfield, Vermont HSA during 1992-93.

TABLE 6
Hospital Bed Allocation and Medicare Reimbursements for Inpatient Services
by Hospital Service Area and Hospital by Location

	1992-3 MPDs (1,000s) (3)	% of HOSP's MPDs from HSA (4)	1992-3 MRs (\$ in millions) (5)	% of HOSP's MRs from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HOSP (8)	% of HSA's MPDs by HOSP (9)	HSA MRs by HOSP (\$ in Millions) (10)	% of HSA's MRs by HOSP (11)
Alton, IL	117,143								
Hospitals Within HSA									
Saint Anthony Health Center	32.6	84.8	24.93	85.3	177	150.2	33.5	21.25	33.4
Alton Memorial Hospital	31.9	81.6	22.44	81.5	168	137.1	31.5	18.28	28.7
Wood River Township Hospital	10.7	48.6	6.40	52.8	126	61.2	6.3	3.38	5.3
Hospitals Outside HSA									
Christian Hospital Northeast	131.2	4.2	81.33	7.0	411	17.3	6.7	5.69	8.9
Barnes Hospital	178.3	2.2	158.36	2.3	969	20.9	4.7	3.66	5.8
All Others						79.8	17.3	11.44	18.0
All Hospitals						466.5	100.0	63.69	100.0
Aurora, IL	165,056								
Hospitals Within HSA									
Copley Memorial Hospital	34.8	82.4	23.83	83.8	158	130.3	42.7	19.96	39.6
Mercy Center For Health Care Services	42.5	60.7	24.36	78.0	262	159.1	38.4	19.01	37.7
Hospitals Outside HSA									
Sandwich Community Hospital	7.0	25.9	5.10	27.3	53	13.7	2.7	1.39	2.8
Foster G Mcgaw Hospital	107.1	0.8	133.48	0.8	570	4.3	1.2	1.01	2.0
All Others						55.9	15.1	9.05	18.0
All Hospitals						363.3	100.0	50.41	100.0
Belleville, IL	272,839								
Hospitals Within HSA									
St Elizabeth Hospital	97.5	80.1	56.22	78.4	373	298.8	36.1	44.09	30.4
Memorial Hospital	84.0	82.4	53.49	80.5	346	285.2	32.0	43.07	29.7
St Marys Hospital Of East St Louis	13.5	94.6	9.30	94.7	135	127.7	5.9	8.81	6.1
Touchette Regional Hospital Inc	4.9	94.6	3.70	93.3	104	98.4	2.1	3.45	2.4
Hospitals Outside HSA									
Barnes Hospital	178.3	6.9	158.36	6.6	969	67.0	5.7	10.38	7.2
Jewish Hospital	120.6	6.8	107.65	8.8	433	29.3	3.8	9.51	6.6
All Others						171.8	14.5	25.67	17.7
All Hospitals						1,078.2	100.0	144.98	100.0
Bloomington, IL	134,005								
Hospitals Within HSA									
Bromenn Healthcare	40.6	78.7	24.80	79.8	116	91.3	51.0	19.78	44.8
St Joseph Medical Center	26.0	82.3	21.22	79.7	151	124.2	34.1	16.90	38.3
Hospitals Outside HSA									
Saint Francis Medical Center	97.5	1.2	80.10	1.1	559	6.8	1.9	0.87	2.0
Carle Foundation Hospital	49.6	1.8	43.74	2.0	300	5.4	1.4	0.86	2.0
All Others						39.6	11.6	5.76	13.0
All Hospitals						267.3	100.0	44.18	100.0

	1992-3 MPDs (1,000s) (3)	% of HOSP's MPDs from HSA (4)	1992-3 MRS (\$ in millions) (5)	% of HOSP's MRS from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HOSP (8)	% of HSA's MPDs by HOSP (9)	HSA MRS by HOSP (\$ in Millions) (10)	% of HSA's MRS by HOSP (11)	
Carbondale, IL	39,799									
Hospitals Within HSA										
Memorial Hospital	17.9	35.6	15.32	35.7	150	53.4	48.1	5.47	51.7	
Hospitals Outside HSA										
Barnes Hospital	178.3	0.6	158.36	0.7	969	5.4	7.5	1.18	11.1	
St Joseph Memorial Hospital	10.8	16.8	5.04	16.5	59	9.9	13.7	0.83	7.8	
All Others						19.3	30.7	3.10	29.3	
All Hospitals						88.0	100.0	10.58	100.0	
Centralia, IL	37,455									
Hospitals Within HSA										
St Marys Hospital	61.9	76.5	24.60	77.4	276	211.2	76.5	19.04	59.0	
Hospitals Outside HSA										
Barnes Hospital	178.3	2.7	158.36	3.3	969	26.5	7.9	5.26	16.3	
Jewish Hospital	120.6	0.9	107.65	1.3	433	3.9	1.8	1.42	4.4	
All Others						40.6	13.9	6.56	20.3	
All Hospitals						282.2	100.0	32.30	100.0	
Chicago, IL	2,680,712									
Hospitals Within HSA										
Rush-Presbyterian-St Lukes Med Ctr	177.5	61.5	147.01	54.9	817	502.8	5.8	80.75	5.8	
University Of Chicago Hospitals	73.9	68.0	98.58	65.3	609	414.1	2.7	64.37	4.6	
Resurrection Medical Center	135.4	76.2	84.72	76.0	377	287.1	5.5	64.35	4.6	
Northwestern Memorial Hospital	101.6	65.9	103.76	61.1	708	466.8	3.6	63.34	4.5	
Mercy Hospital And Medical Center	79.9	89.4	65.13	88.5	487	435.2	3.8	57.65	4.1	
Illinois Masonic Medical Center	51.3	87.7	58.04	85.4	364	319.3	2.4	49.57	3.6	
Humana Hospital-Michael Reese	57.1	92.2	53.22	91.0	553	509.6	2.8	48.43	3.5	
Saint Joseph Hospital	73.4	87.1	50.38	86.4	493	429.5	3.4	43.54	3.1	
Swedish Covenant Hospital	83.5	90.4	47.51	89.5	248	224.2	4.0	42.50	3.0	
Holy Cross Hospital	97.7	75.8	55.56	75.9	276	209.1	3.9	42.15	3.0	
Grant Hospital Of Chicago	53.2	91.1	43.16	91.2	229	208.6	2.6	39.38	2.8	
Our Lady Of The Resurrection Med Ctr	74.5	85.1	44.21	86.0	227	193.2	3.4	38.03	2.7	
Columbus Hospital	60.9	84.4	47.12	79.7	306	258.2	2.7	37.57	2.7	
Ravenswood Hospital & Medical Center	65.9	92.9	40.30	92.6	295	273.9	3.2	37.32	2.7	
Cook County Hospital	41.5	92.6	36.33	94.0	902	834.8	2.0	34.14	2.4	
St Mary Of Nazareth Hospital Center	47.5	89.6	34.76	89.8	305	273.4	2.3	31.20	2.2	
Edgewater Medical Center	54.7	89.3	34.01	89.8	172	153.7	2.6	30.54	2.2	
Louis A Weiss Memorial Hospital	39.2	86.1	33.12	85.9	224	192.9	1.8	28.45	2.0	
Ehs Trinity Hospital	41.0	91.3	26.88	91.5	285	260.2	2.0	24.59	1.8	
Mt Sinai Hospital Medical Center	36.9	92.6	25.29	91.9	365	337.9	1.8	23.24	1.7	
University Of Illinois Hospital	27.6	75.2	30.29	71.9	424	318.8	1.1	21.79	1.6	
Chicago Osteopathic Hosp & Med Ctr	52.5	38.9	52.47	38.8	436	169.5	1.1	20.33	1.5	
St Elizabeth Hospital Of Chicago Inc	25.4	95.2	19.80	95.4	210	199.9	1.3	18.89	1.4	
Doctors Hosp Hyde Pk	26.9	97.7	17.83	97.8	161	157.3	1.4	17.44	1.3	
St Cabrini Hospital	30.3	95.0	17.53	94.2	190	180.4	1.5	16.51	1.2	
Methodist Hospital Of Chicago	33.1	84.1	19.07	84.7	172	144.7	1.5	16.15	1.2	
St Bernard Hospital	30.6	96.9	15.64	97.2	194	188.0	1.6	15.20	1.1	
Others Within HSA	163.2	91.3	108.03	91.6	1741	1,598.6	7.9	98.91	7.1	

	1992-3 MPDs (1,000s) (3)	% of HCSP's MPDs from HSA (4)	1992-3 MRS (\$ in millions) (5)	% of HCSP's MRS from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HCSP (8)	% of HSA's MPDs by HCSP (9)	HSA MRS by HCSP (\$ in Millions) (10)	% of HSA's MRS by HCSP (11)	
Hospitals Outside HSA										
St Francis Hospital Of Evanston	105.4	56.7	97.58	53.8	367	208.1	3.2	52.52	3.8	
Ehs Christ Hospital & Medical Center	166.9	22.2	119.67	21.3	800	177.3	2.0	25.46	1.8	
All Others						1,396.0	15.5	212.52	15.2	
All Hospitals						11,523.1	100.0	1,396.84	100.0	
Danville, IL 94,296										
Hospitals Within HSA										
United Samaritans Med Center-Sager	53.8	90.1	28.18	89.8	285	256.8	71.7	25.31	59.1	
Hospitals Outside HSA										
Carle Foundation Hospital	49.6	13.4	43.74	14.4	300	40.1	9.8	6.29	14.7	
St Vincent Hospital & Health Center	180.8	1.1	171.26	1.4	882	9.6	2.9	2.47	5.8	
All Others						69.7	15.6	8.79	20.5	
All Hospitals						376.2	100.0	42.85	100.0	
Decatur, IL 145,026										
Hospitals Within HSA										
Decatur Memorial Hospital	54.6	85.5	29.74	83.9	297	253.9	41.9	24.95	37.1	
St Marys Hospital	50.0	88.0	25.15	87.7	326	286.9	39.6	22.05	32.8	
Hospitals Outside HSA										
St Johns Hospital	150.1	4.1	118.45	6.8	625	25.4	5.5	8.07	12.0	
Memorial Medical Center	123.2	3.8	90.07	5.1	520	19.9	4.2	4.59	6.8	
All Others						53.7	8.8	7.65	11.4	
All Hospitals						639.8	100.0	67.31	100.0	
Dixon, IL 27,610										
Hospitals Within HSA										
Katherine Shaw Bethea Hospital	17.7	65.1	9.78	67.1	107	69.6	64.2	6.56	54.3	
Hospitals Outside HSA										
Rockford Memorial Hospital	79.3	2.0	53.90	2.4	458	9.1	8.8	1.28	10.6	
Saint Anthony Medical Center	49.2	2.0	37.68	2.7	216	4.3	5.5	1.03	8.6	
All Others						20.2	21.6	3.22	26.6	
All Hospitals						103.2	100.0	12.08	100.0	
Elgin, IL 246,641										
Hospitals Within HSA										
Sherman Hospital	51.0	75.7	41.32	72.1	326	246.6	40.8	29.79	43.4	
St Joseph Hospital	31.9	82.0	19.07	82.5	205	168.1	27.7	15.73	22.9	
Hospitals Outside HSA										
Northern Illinois Medical Center	36.5	12.9	26.03	13.0	130	16.7	5.0	3.38	4.9	
Humana Hospital Hoffman Estates	29.6	14.3	19.62	14.2	109	15.6	4.5	2.78	4.1	
All Others						126.5	22.0	16.98	24.7	
All Hospitals						573.5	100.0	68.67	100.0	
Elk Grove Village, IL 122,151										
Hospitals Within HSA										
Alexian Brothers Medical Center	57.5	45.7	40.43	46.7	376	171.7	51.7	18.88	50.2	
Hospitals Outside HSA										
Humana Hospital Hoffman Estates	29.6	14.3	19.62	14.6	109	15.6	8.4	2.86	7.6	
Northwest Community Hospital	109.0	3.8	67.46	4.2	401	15.4	8.2	2.81	7.5	
All Others						82.5	31.7	13.04	34.7	
All Hospitals						285.2	100.0	37.58	100.0	

	1992-3 MPDs (1,000s) (3)	% of HOSP's MPDs from HSA (4)	1992-3 MRS (\$ in millions) (5)	% of HOSP's MRS from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HOSP (8)	% of HSA's MPDs by HOSP (9)	HSA MRS by HOSP (\$ in Millions) (10)	% of HSA's MRS by HOSP (11)	
Evanston, IL	212,335									
Hospitals Within HSA										
Evanston Hospital	129.5	59.4	98.48	60.3	536	318.1	53.3	59.33	52.3	
St Francis Hospital Of Evanston	105.4	17.8	97.58	15.5	367	65.3	13.0	15.12	13.3	
Hospitals Outside HSA										
Lutheran General Hospital	140.7	6.4	114.49	6.6	682	43.4	6.2	7.57	6.7	
Rush North Shore Medical Center	60.1	10.3	43.08	11.0	240	24.7	4.3	4.73	4.2	
All Others						185.8	23.2	26.81	23.6	
All Hospitals						637.3	100.0	113.56	100.0	
Freeport, IL	61,763									
Hospitals Within HSA										
Freeport Memorial Hospital	29.0	88.7	17.93	88.3	143	126.8	59.6	15.84	51.3	
Hospitals Outside HSA										
Rockford Memorial Hospital	79.3	5.5	53.90	7.1	458	25.3	10.1	3.85	12.5	
University Of Wis Hospital And Clinics	67.7	3.9	73.55	3.9	503	19.7	6.2	2.90	9.4	
All Others						60.3	24.1	8.28	26.8	
All Hospitals						232.1	100.0	30.85	100.0	
Galesburg, IL	68,895									
Hospitals Within HSA										
Galesburg Cottage Hospital	27.0	85.3	17.86	84.4	176	150.1	39.2	15.07	38.2	
St Mary Medical Center	26.8	82.4	15.11	79.6	152	125.3	37.5	12.03	30.5	
Hospitals Outside HSA										
Saint Francis Medical Center	97.5	3.3	80.10	3.1	559	18.5	5.5	2.50	6.3	
St Johns Hospital	150.1	0.9	118.45	1.7	625	5.4	2.2	2.05	5.2	
All Others						50.2	15.5	7.86	19.9	
All Hospitals						349.5	100.0	39.50	100.0	
Geneva, IL	78,478									
Hospitals Within HSA										
Delnor Community Hospital	27.8	74.7	18.03	73.9	118	88.2	60.2	13.32	53.5	
Hospitals Outside HSA										
Foster G Mcgaw Hospital	107.1	1.2	133.48	1.8	570	6.7	3.7	2.37	9.5	
Mercy Center For Health Care Services	42.5	8.2	24.36	7.7	262	21.4	10.1	1.87	7.5	
All Others						50.1	26.1	7.34	29.5	
All Hospitals						166.4	100.0	24.90	100.0	
Granite City, IL	57,812									
Hospitals Within HSA										
St Elizabeth Medical Center	41.0	79.9	23.12	81.4	285	227.8	65.1	18.81	55.7	
Hospitals Outside HSA										
Barnes Hospital	178.3	2.1	158.36	2.3	969	20.3	7.4	3.58	10.6	
Jewish Hospital	120.6	1.8	107.65	2.0	433	7.8	4.3	2.18	6.5	
All Others						60.0	23.2	9.21	27.3	
All Hospitals						315.9	100.0	33.78	100.0	

	1992-3 MPDs (1,000s) (3)	% of HCSP's MPDs from HSA (4)	1992-3 MRS (\$ in millions) (5)	% of HCSP's MRS from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HCSP (8)	% of HSA's MPDs by HCSP (9)	HSA MRS by HCSP (\$ in Millions) (10)	% of HSA's MRS by HCSP (11)	
Harvey, IL	127,326									
Hospitals Within HSA										
Ingalls Memorial Hospital	113.3	43.3	79.12	42.3	470	203.4	53.2	33.45	51.5	
Hospitals Outside HSA										
St Francis Hospital & Health Center	74.7	13.4	56.94	13.4	293	39.1	10.8	7.63	11.8	
South Suburban Hospital	61.3	16.5	35.09	16.7	238	39.4	11.0	5.88	9.1	
All Others						140.6	25.0	17.95	27.7	
All Hospitals						422.5	100.0	64.91	100.0	
Jacksonville, IL	51,703									
Hospitals Within HSA										
Passavant Area Hospital	40.8	82.9	20.81	82.0	146	121.0	67.9	17.06	59.4	
Hospitals Outside HSA										
St Johns Hospital	150.1	3.6	118.45	4.1	625	22.2	10.7	4.81	16.7	
Memorial Medical Center	123.2	3.9	90.07	3.9	520	20.3	9.6	3.48	12.1	
All Others						45.0	11.8	3.39	11.8	
All Hospitals						208.5	100.0	28.73	100.0	
Joliet, IL	297,781									
Hospitals Within HSA										
St Joseph Medical Center	106.8	87.9	66.10	86.3	440	386.9	51.2	57.01	46.0	
Silver Cross Hospital	54.5	86.5	32.85	87.8	257	222.4	25.7	28.83	23.3	
Hospitals Outside HSA										
Foster G Mcgaw Hospital	107.1	4.2	133.48	4.6	570	23.7	2.4	6.16	5.0	
Palos Community Hospital	86.8	6.4	52.27	6.3	351	22.6	3.0	3.27	2.6	
All Others						173.1	17.6	28.59	23.1	
All Hospitals						828.7	100.0	123.85	100.0	
Kankakee, IL	109,091									
Hospitals Within HSA										
Riverside Medical Center	58.8	86.1	33.60	85.9	314	270.5	46.1	28.85	41.9	
St Marys Hospital	43.1	90.7	20.73	91.2	200	181.5	35.6	18.90	27.4	
Central Community Hospital	1.9	65.0	1.14	65.8	31	20.1	1.2	0.75	1.1	
Hospitals Outside HSA										
Foster G Mcgaw Hospital	107.1	2.8	133.48	3.7	570	16.0	2.7	4.91	7.1	
Northwestern Memorial Hospital	101.6	1.2	103.76	1.9	708	8.2	1.1	1.94	2.8	
All Others						80.8	13.4	13.59	19.7	
All Hospitals						577.1	100.0	68.94	100.0	
Kewanee, IL	18,512									
Hospitals Within HSA										
Kewanee Hospital	12.2	78.6	9.39	78.0	62	48.7	60.3	7.32	58.9	
Hospitals Outside HSA										
Saint Francis Medical Center	97.5	1.5	80.10	1.8	559	8.6	9.5	1.42	11.4	
Methodist Medical Center Of Illinois	98.5	1.2	64.32	1.2	390	4.8	7.6	0.77	6.2	
All Others						18.8	22.7	2.93	23.6	
All Hospitals						80.9	100.0	12.44	100.0	

	1992-3 MPDs (1,000s) (3)	% of HOSP's MPDs from HSA (4)	1992-3 MRS (\$ in millions) (5)	% of HOSP's MRS from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HOSP (8)	% of HSA's MPDs by HOSP (9)	HSA MRS by HOSP (\$ in Millions) (10)	% of HSA's MRS by HOSP (11)	
Lake Forest, IL	34,810									
Hospitals Within HSA										
Lake Forest Hospital	24.2	31.3	17.55	31.3	161	50.4	57.1	5.50	51.6	
Hospitals Outside HSA										
Highland Park Hospital	37.4	3.4	25.65	3.4	264	8.8	9.5	0.88	8.2	
Lutheran General Hospital	140.7	0.3	114.49	0.6	682	2.3	3.6	0.66	6.2	
All Others						22.0	29.8	3.61	34.0	
All Hospitals						83.5	100.0	10.66	100.0	
Macomb, IL	41,682									
Hospitals Within HSA										
Mc Donough District Hospital	27.7	80.2	15.04	78.5	128	102.7	71.1	11.80	61.9	
Hospitals Outside HSA										
Memorial Medical Center	123.2	1.2	90.07	1.7	520	6.4	4.8	1.55	8.1	
Saint Francis Medical Center	97.5	1.0	80.10	1.2	559	5.5	3.1	0.94	4.9	
All Others						38.8	21.1	4.77	25.0	
All Hospitals						153.4	100.0	19.06	100.0	
Mattoon, IL	69,630									
Hospitals Within HSA										
Sarah Bush Lincoln Health Center	26.1	78.7	18.14	78.2	161	126.8	57.7	14.19	53.1	
Hospitals Outside HSA										
Covenant Medical Ctr Champaign-Urbana	63.5	5.9	44.10	8.0	274	16.2	10.5	3.54	13.3	
Carle Foundation Hospital	49.6	6.0	43.74	6.1	300	18.1	8.4	2.66	10.0	
All Others						41.0	23.4	6.34	23.7	
All Hospitals						202.1	100.0	26.73	100.0	
Mchenry, IL	80,690									
Hospitals Within HSA										
Northern Illinois Medical Center	36.5	62.2	26.03	64.6	130	80.9	53.4	16.81	50.4	
Hospitals Outside HSA										
Memorial Hospital	16.2	19.5	10.79	18.8	137	26.7	7.4	2.03	6.1	
St Therese Medical Center	30.2	7.7	19.15	9.0	229	17.6	5.5	1.73	5.2	
All Others						83.2	33.8	12.79	38.4	
All Hospitals						208.4	100.0	33.36	100.0	
Melrose Park, IL	160,285									
Hospitals Within HSA										
Westlake Community Hospital	64.8	42.4	43.08	43.0	162	68.7	23.7	18.54	20.8	
Gottlieb Memorial Hospital	41.4	57.7	32.10	57.4	218	125.8	20.6	18.41	20.7	
Foster G Mcgaw Hospital	107.1	10.4	133.48	9.3	570	59.0	9.6	12.44	14.0	
Hospitals Outside HSA										
West Suburban Hospital Med Center	44.8	12.8	36.64	12.4	342	43.6	4.9	4.54	5.1	
Elmhurst Memorial Hospital	98.6	6.4	64.18	6.7	363	23.4	5.5	4.32	4.9	
All Others						206.5	35.6	30.71	34.5	
All Hospitals						527.0	100.0	88.94	100.0	

HOSPITAL BED ALLOCATION AND MEDICARE REIMBURSEMENTS

	1992-3 MPDs (1,000s) (3)	% of HCSP's MPDs from HSA (4)	1992-3 MRS (\$ in millions) (5)	% of HCSP's MRS from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HCSP (8)	% of HSA's MPDs by HCSP (9)	HSA MRS by HCSP (\$ in Millions) (10)	% of HSA's MRS by HCSP (11)	
Morris, IL	31,960									
Hospitals Within HSA										
Morris Hospital	17.3	78.7	13.02	78.1	82	64.5	54.1	10.17	49.9	
Hospitals Outside HSA										
St Joseph Medical Center	106.8	5.6	66.10	6.9	440	24.4	23.5	4.59	22.5	
Foster G Mcgaw Hospital	107.1	0.9	133.48	1.1	570	5.0	3.7	1.47	7.2	
All Others						27.4	18.8	4.17	20.4	
All Hospitals						121.3	100.0	20.40	100.0	
Mount Vernon, IL	46,308									
Hospitals Within HSA										
Good Samaritan Regional Hlth Center	32.3	57.1	17.45	55.0	97	55.4	40.6	9.59	32.0	
Crossroads Community Hospital	12.1	83.2	8.13	82.8	49	40.8	22.2	6.73	22.4	
Hospitals Outside HSA										
Barnes Hospital	178.3	2.6	158.36	3.0	969	24.7	10.0	4.67	15.6	
Jewish Hospital	120.6	0.9	107.65	1.1	433	4.1	2.5	1.21	4.0	
All Others						57.2	24.7	7.81	26.0	
All Hospitals						182.2	100.0	30.00	100.0	
Naperville, IL	151,644									
Hospitals Within HSA										
Edward Hospital	32.2	67.2	30.20	66.0	159	106.8	51.2	19.94	54.8	
Hospitals Outside HSA										
Ehs Good Samaritan Hospital	57.3	9.4	54.01	8.7	299	28.1	12.8	4.68	12.9	
Hinsdale Hospital	68.3	3.6	57.87	3.7	419	14.9	5.8	2.14	5.9	
All Others						73.9	30.3	9.64	26.5	
All Hospitals						223.7	100.0	36.41	100.0	
Oak Lawn, IL	235,770									
Hospitals Within HSA										
Ehs Christ Hospital & Medical Center	166.9	56.5	119.67	56.3	800	451.7	43.8	67.38	43.0	
Little Company Of Mary Hospital	87.9	40.1	54.87	44.0	380	152.4	16.4	24.16	15.4	
Hospitals Outside HSA										
Palos Community Hospital	86.8	24.9	52.27	24.4	351	87.2	10.0	12.74	8.1	
St Francis Hospital & Health Center	74.7	12.7	56.94	13.0	293	37.2	4.4	7.39	4.7	
All Others						282.6	25.5	45.21	28.8	
All Hospitals						1,011.1	100.0	156.86	100.0	
Olney, IL	20,098									
Hospitals Within HSA										
Richland Memorial Hospital	15.9	56.9	9.12	57.5	110	62.6	59.7	5.25	53.2	
Hospitals Outside HSA										
Good Samaritan Hospital	67.9	3.2	35.89	3.1	262	8.4	14.4	1.10	11.2	
Deaconess Hospital Inc	107.9	0.7	82.57	1.2	416	2.8	4.8	0.99	10.1	
All Others						19.9	21.1	2.52	25.5	
All Hospitals						93.7	100.0	9.86	100.0	

	1992-3 MPDs (1,000s) (3)	% of HOSP's MPDs from HSA (4)	1992-3 MRS (\$ in millions) (5)	% of HOSP's MRS from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HOSP (8)	% of HSA's MPDs by HOSP (9)	HSA MRS by HOSP (\$ in Millions) (10)	% of HSA's MRS by HOSP (11)	
Ottawa, IL	31,917									
Hospitals Within HSA										
Community Hospital Of Ottawa	15.6	83.4	10.09	84.4	155	129.3	62.8	8.51	54.9	
Hospitals Outside HSA										
Saint Francis Medical Center	97.5	2.9	80.10	3.8	559	16.0	13.5	3.05	19.7	
Illinois Valley Community Hospital	19.1	2.9	12.67	4.1	104	3.0	2.7	0.52	3.4	
All Others						22.1	21.0	3.42	22.1	
All Hospitals						170.4	100.0	15.52	100.0	
Park Ridge, IL	170,999									
Hospitals Within HSA										
Lutheran General Hospital	140.7	45.1	114.49	45.9	682	307.7	44.2	52.56	46.0	
Holy Family Hospital	42.5	44.1	32.73	45.1	180	79.4	13.0	14.77	12.9	
Hospitals Outside HSA										
Resurrection Medical Center	135.4	12.6	84.72	13.0	377	47.3	11.8	10.97	9.6	
St Francis Hospital Of Evanston	105.4	4.7	97.58	5.5	367	17.1	3.4	5.35	4.7	
All Others						192.0	27.5	30.54	26.8	
All Hospitals						643.5	100.0	114.20	100.0	
Pekin, IL	55,126									
Hospitals Within HSA										
Pekin Memorial Hospital	25.5	84.3	16.64	84.1	133	112.2	56.0	13.99	51.2	
Hospitals Outside HSA										
Saint Francis Medical Center	97.5	6.4	80.10	6.7	559	36.0	16.4	5.39	19.7	
Methodist Medical Center Of Illinois	98.5	6.8	64.32	7.4	390	26.5	17.4	4.79	17.5	
All Others						23.5	10.2	3.15	11.6	
All Hospitals						198.2	100.0	27.33	100.0	
Peoria, IL	286,834									
Hospitals Within HSA										
Methodist Medical Center Of Illinois	98.5	74.8	64.32	72.4	390	291.8	40.6	46.57	36.5	
Saint Francis Medical Center	97.5	56.4	80.10	50.9	559	315.1	30.2	40.80	32.0	
Proctor Community Hospital	39.4	89.9	30.24	89.0	155	139.4	19.5	26.93	21.1	
Hospitals Outside HSA										
Pekin Memorial Hospital	25.5	8.8	16.64	8.5	133	11.7	1.2	1.41	1.1	
All Others						80.6	8.5	11.81	9.3	
All Hospitals						838.6	100.0	127.51	100.0	
Peru, IL	28,896									
Hospitals Within HSA										
Illinois Valley Community Hospital	19.1	76.9	12.67	75.9	104	80.0	47.9	9.62	50.1	
Hospitals Outside HSA										
Saint Francis Medical Center	97.5	4.3	80.10	5.4	559	23.8	13.5	4.28	22.3	
St Margarets Hospital	20.2	37.7	7.28	23.1	95	35.8	24.8	1.68	8.8	
All Others						24.8	13.8	3.63	18.8	
All Hospitals						164.4	100.0	19.20	100.0	

	1992-3 MPDs (1,000s) (3)	% of HCSP's MPDs from HSA (4)	1992-3 MRS (\$ in millions) (5)	% of HCSP's MRS from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HCSP (8)	% of HSA's MPDs by HCSP (9)	HSA MRS by HCSP (\$ in Millions) (10)	% of HSA's MRS by HCSP (11)	
Pontiac, IL	29,416									
Hospitals Within HSA										
Saint James Hospital	11.9	79.9	8.93	81.2	65	51.9	44.1	7.24	43.7	
Fairbury Hospital	2.2	74.5	1.47	73.8	64	47.7	7.7	1.09	6.6	
Hospitals Outside HSA										
Bromenn Healthcare	40.6	6.5	24.80	6.2	116	7.6	12.4	1.55	9.3	
Saint Francis Medical Center	97.5	1.5	80.10	1.3	559	8.3	6.7	1.04	6.3	
All Others						33.5	29.2	5.68	34.2	
All Hospitals						149.0	100.0	16.59	100.0	
Quincy, IL	89,858									
Hospitals Within HSA										
Blessing Hospital	71.0	81.0	39.24	80.1	277	224.2	78.2	31.43	67.9	
Hospitals Outside HSA										
St Johns Hospital	150.1	1.2	118.45	2.0	625	7.8	2.5	2.32	5.0	
Memorial Medical Center	123.2	1.4	90.07	1.6	520	7.2	2.3	1.44	3.1	
All Others						73.1	17.0	11.12	24.0	
All Hospitals						312.3	100.0	46.30	100.0	
Rock Island, IL	115,630									
Hospitals Within HSA										
Trinity Medical Center West	89.9	70.5	54.19	74.3	507	357.6	79.8	40.24	74.7	
Hospitals Outside HSA										
St Lukes Hospital	51.6	6.8	44.94	8.4	216	14.7	4.4	3.78	7.0	
Illini Hospital	20.6	19.3	14.00	19.1	133	25.6	5.0	2.68	5.0	
All Others						58.5	10.8	7.17	13.3	
All Hospitals						456.4	100.0	53.86	100.0	
Rockford, IL	285,530									
Hospitals Within HSA										
Rockford Memorial Hospital	79.3	75.9	53.90	73.4	458	347.8	38.7	39.55	37.0	
Swedish American Hospital	60.5	79.9	45.00	77.1	298	238.1	31.1	34.70	32.5	
Saint Anthony Medical Center	49.2	59.5	37.68	50.4	216	128.5	18.8	19.00	17.8	
Hospitals Outside HSA										
All Others						111.5	11.4	13.64	12.8	
All Hospitals						825.9	100.0	106.89	100.0	
Springfield, IL	229,063									
Hospitals Within HSA										
St Johns Hospital	150.1	62.1	118.45	49.6	625	388.0	45.9	58.79	46.2	
Memorial Medical Center	123.2	61.7	90.07	53.2	520	320.6	37.4	47.95	37.7	
Doctors Hospital	23.4	62.9	13.48	63.8	150	94.3	7.3	8.60	6.8	
Hospitals Outside HSA										
Passavant Area Hospital	40.8	10.1	20.81	10.7	146	14.8	2.0	2.22	1.8	
All Others						77.2	7.5	9.63	7.6	
All Hospitals						894.9	100.0	127.19	100.0	

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Sterling, IL 53,374										
Hospitals Within HSA										
Cgh Medical Center	28.0	86.8	19.35	85.6	127	110.2	62.1	16.56	59.2	
Morrison Community Hospital	1.0	64.3	0.76	65.1	48	30.9	1.7	0.50	1.8	
Hospitals Outside HSA										
Saint Anthony Medical Center	49.2	4.7	37.68	7.4	216	10.2	6.0	2.78	9.9	
Rockford Memorial Hospital	79.3	2.1	53.90	2.0	458	9.6	4.3	1.09	3.9	
All Others						60.2	25.9	7.06	25.2	
All Hospitals						221.1	100.0	27.97	100.0	
Urbana, IL 205,867										
Hospitals Within HSA										
Covenant Medical Ctr Champaign-Urbana	63.5	74.5	44.10	71.3	274	204.2	56.0	31.44	52.0	
Carle Foundation Hospital	49.6	47.4	43.74	44.0	300	142.1	27.8	19.25	31.8	
Hospitals Outside HSA										
Gibson Community Hospital	6.5	33.0	3.68	34.1	40	13.2	2.5	1.25	2.1	
Sarah Bush Lincoln Health Center	26.1	3.3	18.14	3.5	161	5.3	1.0	0.63	1.0	
All Others						65.2	12.6	7.96	13.2	
All Hospitals						430.0	100.0	60.52	100.0	
Waukegan, IL 208,959										
Hospitals Within HSA										
Victory Memorial Hospital	46.0	87.9	26.54	88.1	279	245.2	43.7	23.38	37.1	
St Therese Medical Center	30.2	74.5	19.15	73.5	229	170.7	24.3	14.08	22.4	
Midwestern Region Med Center	3.1	73.1	2.07	67.6	64	46.8	2.5	1.40	2.2	
Hospitals Outside HSA										
St Lukes Medical Center Inc	207.7	2.3	182.24	3.5	362	8.4	5.3	6.36	10.1	
Lake Forest Hospital	24.2	23.3	17.55	22.7	161	37.5	6.1	3.99	6.3	
All Others						93.3	18.2	13.75	21.9	
All Hospitals						601.9	100.0	62.96	100.0	
Winfield, IL 173,873										
Hospitals Within HSA										
Central Dupage Hospital	49.7	64.6	40.50	64.6	338	218.2	56.7	26.18	57.0	
Hospitals Outside HSA										
Ehs Good Samaritan Hospital	57.3	5.6	54.01	5.4	299	16.6	5.6	2.92	6.4	
Foster G Mcgaw Hospital	107.1	1.3	133.48	1.4	570	7.5	2.5	1.84	4.0	
All Others						113.3	35.1	14.96	32.6	
All Hospitals						355.6	100.0	45.89	100.0	
Woodstock, IL 23,376										
Hospitals Within HSA										
Memorial Hospital	16.2	49.0	10.79	49.9	137	67.1	58.9	5.38	54.4	
Hospitals Outside HSA										
Northern Illinois Medical Center	36.5	5.1	26.03	4.5	130	6.7	13.9	1.18	11.9	
Rockford Memorial Hospital	79.3	0.5	53.90	0.8	458	2.3	3.0	0.43	4.3	
All Others						18.2	24.2	2.91	29.4	
All Hospitals						94.3	100.0	9.90	100.0	

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Anderson, IN	126,156									
Hospitals Within HSA										
St Johns Health System	44.5	92.2	26.84	92.4	342	315.2	46.4	24.80	37.9	
Community Hospital Of Anderson	28.0	89.3	20.15	89.4	177	158.0	28.3	18.02	27.5	
Hospitals Outside HSA										
St Vincent Hospital & Health Center	180.8	4.3	171.26	6.1	882	38.1	8.8	10.52	16.1	
Methodist Hospital Of Indiana Inc	179.8	1.8	151.63	2.1	928	16.8	3.7	3.16	4.8	
All Others						70.8	12.8	9.02	13.8	
All Hospitals						598.9	100.0	65.51	100.0	
Bedford, IN	52,039									
Hospitals Within HSA										
Dunn Memorial Hospital	14.2	93.1	6.90	92.8	75	69.8	37.1	6.40	26.5	
Bedford Medical Center	10.8	82.8	6.80	82.5	74	61.3	25.2	5.61	23.3	
Hospitals Outside HSA										
Bloomington Hospital	56.4	8.7	40.93	8.2	263	22.8	13.8	3.35	13.9	
St Vincent Hospital & Health Center	180.8	0.8	171.26	1.2	882	7.2	4.1	2.07	8.6	
All Others						45.8	19.8	6.69	27.8	
All Hospitals						206.9	100.0	24.13	100.0	
Beech Grove, IN	163,183									
Hospitals Within HSA										
St Francis Hospital Center	104.3	58.0	79.01	55.2	428	248.4	57.9	43.62	55.9	
Community Hospital South Inc	20.2	38.6	14.58	38.8	137	52.9	7.5	5.66	7.3	
Hospitals Outside HSA										
Community Hospital Indianapolis	148.3	9.2	110.35	8.9	685	63.0	13.1	9.86	12.7	
Methodist Hospital Of Indiana Inc	179.8	5.5	151.63	5.3	928	51.5	9.5	7.98	10.2	
All Others						106.5	12.1	10.86	13.9	
All Hospitals						522.3	100.0	77.99	100.0	
Bloomington, IN	144,870									
Hospitals Within HSA										
Bloomington Hospital	56.4	77.8	40.93	77.8	263	204.5	76.3	31.82	70.8	
Hospitals Outside HSA										
St Vincent Hospital & Health Center	180.8	1.4	171.26	2.1	882	12.7	4.5	3.67	8.2	
Indiana University Medical Center	46.2	2.9	54.36	3.4	596	17.2	2.3	1.83	4.1	
All Others						56.1	16.9	7.63	17.0	
All Hospitals						290.5	100.0	44.95	100.0	
Bluffton, IN	30,547									
Hospitals Within HSA										
Caylor-Nickel Medical Center	13.4	40.9	9.51	41.7	110	45.0	35.5	3.97	31.7	
Wells Community Hospital	5.2	74.7	3.79	74.9	45	33.6	25.2	2.84	22.6	
Hospitals Outside HSA										
Lutheran Hospital Of Indiana Inc	67.3	4.4	61.91	5.5	381	16.8	19.2	3.41	27.2	
Parkview Memorial Hospital Inc	108.9	1.2	80.82	1.0	582	6.9	8.4	0.78	6.2	
All Others						11.9	11.7	1.54	12.3	
All Hospitals						114.2	100.0	12.54	100.0	

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Columbus, IN	73,199									
Hospitals Within HSA										
Columbus Regional Hospital	46.8	65.9	29.86	64.9	250	164.9	75.8	19.38	66.3	
Hospitals Outside HSA										
St Francis Hospital Center	104.3	1.5	79.01	2.8	428	6.3	3.8	2.18	7.4	
Methodist Hospital Of Indiana Inc	179.8	1.3	151.63	1.4	928	11.6	5.5	2.13	7.3	
All Others						42.6	15.0	5.53	18.9	
All Hospitals						225.4	100.0	29.22	100.0	
Crawfordsville, IN	36,620									
Hospitals Within HSA										
Ami Culver Union Hospital	17.3	86.3	12.57	86.1	86	74.2	61.3	10.82	54.6	
Hospitals Outside HSA										
Methodist Hospital Of Indiana Inc	179.8	2.2	151.63	3.0	928	20.0	15.9	4.55	22.9	
St Vincent Hospital & Health Center	180.8	0.4	171.26	0.5	882	3.8	3.2	0.89	4.5	
All Others						29.9	19.6	3.56	18.0	
All Hospitals						127.9	100.0	19.83	100.0	
Crown Point, IN	74,348									
Hospitals Within HSA										
St Anthony Medical Center Inc	57.4	52.6	44.20	51.5	309	162.4	59.9	22.75	62.8	
Hospitals Outside HSA										
Methodist Hospitals, Inc	85.9	9.6	43.43	10.1	318	30.4	16.3	4.38	12.1	
Porter Memorial Hospital	69.7	3.5	40.16	3.3	369	12.8	4.8	1.31	3.6	
All Others						48.4	18.9	7.77	21.5	
All Hospitals						254.0	100.0	36.22	100.0	
East Chicago, IN	33,775									
Hospitals Within HSA										
St Catherine Hospital	47.6	54.5	30.75	52.8	337	183.5	69.8	16.24	69.0	
Hospitals Outside HSA										
Community Hospital	81.2	4.2	53.00	3.9	362	15.1	9.1	2.06	8.8	
St Margaret Mercy Hlthcare Ctrs Inc Nc	106.0	2.9	68.36	2.8	528	15.2	8.2	1.89	8.1	
All Others						25.2	12.9	3.33	14.2	
All Hospitals						239.0	100.0	23.53	100.0	
Elkhart, IN	103,903									
Hospitals Within HSA										
Elkhart General Hospital	47.1	77.6	32.88	77.2	290	225.1	74.7	25.39	66.1	
Hospitals Outside HSA										
St Josephs Medical Center	85.3	3.7	72.39	5.6	309	11.6	6.5	4.06	10.6	
Memorial Hospital Of South Bend Inc	63.7	3.8	56.69	4.2	389	14.8	5.0	2.39	6.2	
All Others						41.4	13.8	6.56	17.1	
All Hospitals						292.9	100.0	38.39	100.0	

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Elwood, IN	13,598									
Hospitals Within HSA										
Mercy Hospital Inc	7.2	78.9	5.62	79.9	49	38.7	54.4	4.49	50.4	
Hospitals Outside HSA										
St Vincent Hospital & Health Center	180.8	0.4	171.26	0.6	882	3.5	6.9	0.99	11.1	
Methodist Hospital Of Indiana Inc	179.8	0.4	151.63	0.6	928	3.8	7.0	0.88	9.9	
All Others						23.6	31.7	2.54	28.6	
All Hospitals						69.6	100.0	8.90	100.0	
Evansville, IN	261,319									
Hospitals Within HSA										
Deaconess Hospital Inc	107.9	77.8	82.57	71.2	416	323.6	46.1	58.76	45.3	
St Mary'S Med Ctr Of Evansville, Inc	61.4	64.7	51.85	59.7	412	266.7	21.9	30.96	23.9	
Welborn Baptist Hospital	50.2	71.0	36.03	69.2	350	248.6	19.6	24.95	19.2	
Others Within HSA	2.3	76.1	1.47	76.9	33	25.1	1.0	1.13	0.9	
Hospitals Outside HSA										
All Others						128.0	11.5	13.89	10.7	
All Hospitals						992.0	100.0	129.69	100.0	
Fort Wayne, IN	322,307									
Hospitals Within HSA										
Parkview Memorial Hospital Inc	108.9	61.2	80.82	57.0	582	356.1	42.7	46.05	39.8	
St Joseph Medical Ctr Of Ft Wayne, Inc	58.7	78.9	47.99	74.1	280	220.9	29.7	35.54	30.7	
Lutheran Hospital Of Indiana Inc	67.3	46.1	61.91	40.3	381	175.8	19.9	24.93	21.6	
Hospitals Outside HSA										
All Others						76.8	7.6	9.10	7.9	
All Hospitals						829.6	100.0	115.62	100.0	
Gary, IN	238,779									
Hospitals Within HSA										
Northwest Family Hospital	75.4	89.7	45.86	88.0	354	317.4	29.5	40.36	29.5	
Methodist Hospitals, Inc	85.9	75.0	43.43	73.7	318	238.6	28.2	32.01	23.4	
Methodist Hospitals, Inc Nlake Cam,The	50.5	91.8	31.44	92.9	307	281.8	20.3	29.20	21.3	
Hospitals Outside HSA										
Porter Memorial Hospital	69.7	21.7	40.16	22.2	369	80.1	6.6	8.92	6.5	
St Anthony Medical Center Inc	57.4	18.5	44.20	19.1	309	57.2	4.6	8.42	6.2	
All Others						140.1	10.8	18.06	13.2	
All Hospitals						1,115.2	100.0	136.97	100.0	
Hammond, IN	90,609									
Hospitals Within HSA										
St Margaret Mercy Hlthcare Ctrs Inc Nc	106.0	51.0	68.36	47.9	528	269.3	56.0	32.71	52.0	
Hospitals Outside HSA										
Community Hospital	81.2	11.8	53.00	12.5	362	42.5	9.9	6.64	10.6	
Ingalls Memorial Hospital	113.3	7.1	79.12	6.8	470	33.5	8.4	5.40	8.6	
All Others						148.5	25.8	18.23	28.9	
All Hospitals						493.8	100.0	62.97	100.0	

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Indianapolis, IN	813,184									
Hospitals Within HSA										
Methodist Hospital Of Indiana Inc	179.8	61.4	151.63	54.1	928	570.0	24.9	82.03	24.4	
Community Hospital Indianapolis	148.3	70.9	110.35	69.9	685	485.7	23.7	77.09	22.9	
St Vincent Hospital & Health Center	180.8	51.2	171.26	40.8	882	451.7	20.9	69.80	20.8	
William N Wishard Memorial Hospital	26.7	80.0	28.04	77.0	323	258.2	4.8	21.60	6.4	
Midwest Medical Center	30.3	86.7	20.76	86.0	203	176.1	5.9	17.85	5.3	
Indiana University Medical Center	46.2	24.3	54.36	22.8	596	145.0	2.5	12.42	3.7	
Westview Hospital	10.2	89.1	6.93	88.6	98	87.3	2.0	6.14	1.8	
Others Within HSA	9.4	14.4	14.05	13.8	60	8.6	0.3	1.94	0.6	
Hospitals Outside HSA										
St Francis Hospital Center	104.3	26.2	79.01	24.9	428	111.9	6.1	19.66	5.9	
Community Hospital South Inc	20.2	44.9	14.58	42.6	137	61.5	2.1	6.21	1.9	
All Others						159.1	6.8	21.50	6.4	
All Hospitals						2,515.1	100.0	336.23	100.0	
Jasper, IN	29,569									
Hospitals Within HSA										
Memorial Hospital & Hlth Care Center	18.8	56.1	12.22	55.7	98	54.9	68.4	6.81	61.6	
Hospitals Outside HSA										
St Mary'S Med Ctr Of Evansville, Inc	61.4	1.6	51.85	2.2	412	6.7	6.5	1.15	10.4	
Deaconess Hospital Inc	107.9	0.5	82.57	0.7	416	2.0	3.3	0.58	5.3	
All Others						26.8	21.8	2.52	22.7	
All Hospitals						90.4	100.0	11.05	100.0	
Jeffersonville, IN	73,614									
Hospitals Within HSA										
Clark County Memorial Hospital	49.8	62.5	31.77	62.4	233	145.5	58.1	19.81	54.7	
Hospitals Outside HSA										
Jewish Hosp	110.0	3.5	89.94	4.5	414	14.6	7.3	4.00	11.1	
Floyd Memorial Hospital	51.3	12.5	30.58	12.3	245	30.5	11.9	3.76	10.4	
All Others						95.9	22.7	8.64	23.9	
All Hospitals						286.5	100.0	36.21	100.0	
Kokomo, IN	101,437									
Hospitals Within HSA										
St Joseph Hospital & Health Center	36.0	86.2	21.60	86.3	183	157.8	48.4	18.64	40.1	
Howard Community Hospital	20.0	84.1	13.49	83.6	128	107.7	26.2	11.28	24.3	
Hospitals Outside HSA										
St Vincent Hospital & Health Center	180.8	3.6	171.26	4.4	882	31.9	10.2	7.52	16.2	
Methodist Hospital Of Indiana Inc	179.8	1.4	151.63	2.1	928	13.3	4.0	3.24	7.0	
All Others						50.0	11.1	5.78	12.4	
All Hospitals						360.7	100.0	46.45	100.0	

	1992-3 MPDs (1,000s) (3)	% of HOSP's MPDs from HSA (4)	1992-3 MRS (\$ in millions) (5)	% of HOSP's MRS from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HOSP (8)	% of HSA's MPDs by HOSP (9)	HSA MRS by HOSP (\$ in Millions) (10)	% of HSA's MRS by HOSP (11)	
Lafayette, IN	176,293									
Hospitals Within HSA										
St Elizabeth Hospital Medical Center	42.8	74.7	36.18	73.0	219	163.6	43.6	26.40	46.9	
Lafayette Home Hospital Inc	35.3	77.6	23.59	75.3	244	189.4	37.5	17.76	31.5	
Hospitals Outside HSA										
St Vincent Hospital & Health Center	180.8	1.7	171.26	2.3	882	15.2	4.3	3.96	7.0	
Indiana University Medical Center	46.2	3.1	54.36	2.1	596	18.2	1.9	1.15	2.0	
All Others						58.1	12.8	7.05	12.5	
All Hospitals						444.5	100.0	56.32	100.0	
Laporte, IN	54,617									
Hospitals Within HSA										
La Porte Hospital	29.8	74.4	17.49	76.7	172	127.9	64.7	13.41	53.6	
Hospitals Outside HSA										
Memorial Hospital Of South Bend Inc	63.7	3.6	56.69	5.6	389	14.0	6.7	3.18	12.7	
St Anthony Hospital And Health Center	40.8	7.1	22.45	7.6	190	13.4	8.4	1.70	6.8	
All Others						43.2	20.2	6.73	26.9	
All Hospitals						198.5	100.0	25.02	100.0	
Lawrenceburg, IN	41,081									
Hospitals Within HSA										
Dearborn County Hospital	20.1	82.0	14.09	82.4	102	83.6	59.4	11.61	51.7	
Hospitals Outside HSA										
University Of Cincinnati Med Center	66.8	1.8	82.91	2.6	519	9.4	4.4	2.15	9.6	
Christ Hospital	91.8	1.7	87.01	2.1	550	9.4	5.7	1.86	8.3	
All Others						38.9	30.6	6.82	30.4	
All Hospitals						141.3	100.0	22.44	100.0	
Lebanon, IN	23,836									
Hospitals Within HSA										
Witham Memorial Hospital	11.3	81.8	8.39	80.6	60	49.1	57.0	6.76	50.6	
Hospitals Outside HSA										
St Vincent Hospital & Health Center	180.8	1.9	171.26	1.7	882	16.3	20.7	2.91	21.8	
Methodist Hospital Of Indiana Inc	179.8	1.0	151.63	1.5	928	9.5	11.3	2.23	16.6	
All Others						11.0	11.0	1.47	11.0	
All Hospitals						85.9	100.0	13.37	100.0	
Logansport, IN	33,171									
Hospitals Within HSA										
Memorial Hospital	15.9	83.5	9.78	83.6	110	91.9	63.0	8.18	54.5	
Hospitals Outside HSA										
St Vincent Hospital & Health Center	180.8	1.4	171.26	1.7	882	12.4	12.1	2.94	19.6	
St Joseph Hospital & Health Center	36.0	2.9	21.60	3.0	183	5.3	5.0	0.64	4.3	
All Others						26.5	20.0	3.23	21.6	
All Hospitals						136.1	100.0	15.00	100.0	

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Madison, IN	48,242									
Hospitals Within HSA										
Kings Daughters Hospital,The	31.2	79.3	16.12	77.7	127	100.7	64.8	12.52	53.3	
Hospitals Outside HSA										
Jewish Hosp	110.0	2.2	89.94	2.9	414	9.1	6.3	2.63	11.2	
Columbus Regional Hospital	46.8	2.9	29.86	3.3	250	7.3	3.6	0.98	4.2	
All Others						65.5	25.3	7.38	31.4	
All Hospitals						182.6	100.0	23.51	100.0	
Marion, IN	80,147									
Hospitals Within HSA										
Marion General Hospital	41.9	91.8	24.21	91.4	235	215.8	72.2	22.14	60.6	
Hospitals Outside HSA										
St Vincent Hospital & Health Center	180.8	2.3	171.26	3.3	882	20.1	7.7	5.63	15.4	
Lutheran Hospital Of Indiana Inc	67.3	1.7	61.91	1.8	381	6.4	2.1	1.11	3.0	
All Others						63.3	17.9	7.69	21.0	
All Hospitals						305.6	100.0	36.56	100.0	
Michigan City, IN	64,754									
Hospitals Within HSA										
St Anthony Hospital And Health Center	40.8	78.8	22.45	78.3	190	149.7	65.2	17.57	54.9	
Memorial Hospital Of Michigan City	5.1	85.8	2.77	84.6	102	87.5	8.9	2.34	7.3	
Hospitals Outside HSA										
Porter Memorial Hospital	69.7	2.1	40.16	3.4	369	7.8	3.0	1.35	4.2	
St Anthony Medical Center Inc	57.4	1.6	44.20	3.0	309	4.9	1.8	1.31	4.1	
All Others						59.7	21.0	9.45	29.5	
All Hospitals						309.6	100.0	32.02	100.0	
Muncie, IN	149,162									
Hospitals Within HSA										
Ball Memorial Hospital, Inc	100.3	78.3	61.48	76.8	439	343.9	82.8	47.21	77.7	
Others Within HSA	0.9	85.6	0.54	82.5	30	25.7	0.8	0.45	0.7	
Hospitals Outside HSA										
St Vincent Hospital & Health Center	180.8	0.8	171.26	1.1	882	7.0	1.5	1.83	3.0	
Indiana University Medical Center	46.2	2.2	54.36	3.0	596	12.9	1.1	1.60	2.6	
All Others						80.8	13.8	9.69	16.0	
All Hospitals						470.3	100.0	60.78	100.0	
New Albany, IN	71,408									
Hospitals Within HSA										
Floyd Memorial Hospital	51.3	69.9	30.58	69.2	245	171.2	65.2	21.15	57.8	
Hospitals Outside HSA										
Clark County Memorial Hospital	49.8	13.4	31.77	13.2	233	31.2	12.1	4.18	11.4	
Jewish Hosp	110.0	3.0	89.94	4.5	414	12.3	6.0	4.05	11.1	
All Others						56.9	16.7	7.20	19.7	
All Hospitals						271.6	100.0	36.57	100.0	

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Noblesville, IN	48,760									
Hospitals Within HSA										
Riverview Hospital	21.8	72.8	14.48	71.9	120	87.3	66.4	10.41	57.5	
Hospitals Outside HSA										
St Vincent Hospital & Health Center	180.8	1.7	171.26	1.7	882	15.0	12.9	2.88	15.9	
Methodist Hospital Of Indiana Inc	179.8	0.8	151.63	1.6	928	7.6	6.2	2.35	13.0	
All Others						23.7	14.6	2.48	13.7	
All Hospitals						133.6	100.0	18.11	100.0	
Richmond, IN	86,249									
Hospitals Within HSA										
Reid Hospital & Health Care Services	62.4	78.5	35.83	78.6	268	210.5	76.5	28.15	64.5	
Hospitals Outside HSA										
St Vincent Hospital & Health Center	180.8	2.0	171.26	3.3	882	17.4	5.6	5.72	13.1	
Methodist Hospital Of Indiana Inc	179.8	1.0	151.63	1.1	928	8.9	2.7	1.61	3.7	
All Others						61.9	15.2	8.17	18.7	
All Hospitals						298.7	100.0	43.64	100.0	
Seymour, IN	38,702									
Hospitals Within HSA										
Jackson County Schneck Mem Hospital	25.0	85.9	11.74	84.9	107	91.9	68.1	9.97	52.7	
Hospitals Outside HSA										
Indiana University Medical Center	46.2	3.4	54.36	4.4	596	20.5	5.0	2.36	12.5	
Columbus Regional Hospital	46.8	6.0	29.86	6.0	250	15.0	8.9	1.80	9.5	
All Others						37.3	17.9	4.79	25.3	
All Hospitals						164.7	100.0	18.91	100.0	
South Bend, IN	231,073									
Hospitals Within HSA										
St Josephs Medical Center	85.3	67.1	72.39	61.4	309	207.5	43.4	44.41	42.7	
Memorial Hospital Of South Bend Inc	63.7	66.3	56.69	61.2	389	257.8	32.0	34.69	33.3	
Michiana Community Hospital	10.6	63.8	7.87	62.0	90	57.4	5.1	4.88	4.7	
Hospitals Outside HSA										
St Joseph Hospital Of Mishawaka	19.8	36.4	15.20	35.8	97	35.3	5.5	5.45	5.2	
Elkhart General Hospital	47.1	5.2	32.88	5.4	290	15.0	1.8	1.76	1.7	
All Others						92.8	12.2	12.91	12.4	
All Hospitals						665.8	100.0	104.09	100.0	
Terre Haute, IN	131,930									
Hospitals Within HSA										
Union Hospital, Inc	83.7	74.0	49.62	72.7	298	220.4	59.7	36.07	52.0	
Terre Haute Regional Hospital	35.3	66.0	27.48	64.2	253	167.0	22.5	17.63	25.4	
Hospitals Outside HSA										
St Vincent Hospital & Health Center	180.8	1.6	171.26	1.8	882	13.7	2.7	3.09	4.5	
Methodist Hospital Of Indiana Inc	179.8	1.0	151.63	1.2	928	9.4	1.8	1.88	2.7	
All Others						93.0	13.4	10.69	15.4	
All Hospitals						503.5	100.0	69.35	100.0	

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Tipton, IN	13,546									
Hospitals Within HSA										
TiptON County Memorial Hospital	8.2	70.1	5.59	70.6	97	68.0	57.7	3.95	51.6	
Hospitals Outside HSA										
Methodist Hospital Of Indiana Inc	179.8	0.4	151.63	0.7	928	3.7	7.2	1.08	14.1	
St Vincent Hospital & Health Center	180.8	0.5	171.26	0.4	882	4.1	8.5	0.69	9.1	
All Others						15.6	26.6	1.93	25.3	
All Hospitals						91.4	100.0	7.66	100.0	
Valparaiso, IN	89,415									
Hospitals Within HSA										
Porter Memorial Hospital	69.7	62.6	40.16	60.6	369	231.0	69.7	24.32	63.5	
Hospitals Outside HSA										
St Anthony Medical Center Inc	57.4	8.3	44.20	7.9	309	25.7	7.6	3.51	9.2	
Methodist Hospitals, Inc	85.9	3.7	43.43	4.1	318	11.7	5.0	1.79	4.7	
All Others						58.5	17.7	8.71	22.7	
All Hospitals						326.9	100.0	38.32	100.0	
Vincennes, IN	51,319									
Hospitals Within HSA										
Good Samaritan Hospital	67.9	60.6	35.89	58.4	262	158.7	80.4	20.97	69.1	
Hospitals Outside HSA										
St Mary'S Med Ctr Of Evansville, Inc	61.4	2.6	51.85	4.2	412	10.8	3.1	2.17	7.2	
Deaconess Hospital Inc	107.9	1.3	82.57	1.8	416	5.2	2.7	1.47	4.8	
All Others						49.1	13.8	5.75	18.9	
All Hospitals						223.8	100.0	30.35	100.0	
Alpena, MI	45,125									
Hospitals Within HSA										
Alpena General Hospital	28.3	78.8	17.69	80.7	176	138.6	67.0	14.28	54.9	
Hospitals Outside HSA										
Northern Michigan Hospitals	54.8	4.7	43.16	5.0	261	12.3	7.8	2.16	8.3	
St Marys Medical Center	64.6	2.4	65.71	2.9	268	6.5	4.8	1.91	7.3	
All Others						35.1	20.4	7.65	29.4	
All Hospitals						192.5	100.0	26.00	100.0	
Ann Arbor, MI	460,644									
Hospitals Within HSA										
St Joseph Mercy Hospital	131.8	59.3	145.72	53.9	602	357.0	45.0	78.51	50.1	
University Hospital	107.6	18.6	151.37	17.1	856	159.1	11.5	25.94	16.5	
Beyer Hospital	19.3	86.7	12.51	85.7	78	67.6	9.6	10.72	6.8	
Hospitals Outside HSA										
St Mary Hospital	83.0	11.9	47.90	11.7	269	32.0	5.7	5.61	3.6	
Botsford General Hospital	100.0	4.3	69.45	4.3	321	13.7	2.5	3.00	1.9	
All Others						223.8	25.8	33.03	21.1	
All Hospitals						853.2	100.0	156.81	100.0	

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Battle Creek, MI	110,090									
Hospitals Within HSA										
Battle Creek Health System	53.4	86.4	48.56	84.2	241	208.2	76.9	40.87	70.7	
Hospitals Outside HSA										
Borgess Medical Center	78.8	6.8	91.23	10.3	351	23.7	8.9	9.36	16.2	
University Hospital	107.6	1.1	151.37	0.9	856	9.1	1.9	1.42	2.5	
All Others						48.7	12.3	6.18	10.7	
All Hospitals						289.7	100.0	57.83	100.0	
Bay City, MI	121,196									
Hospitals Within HSA										
Bay Medical Center	93.7	84.7	51.11	83.4	368	311.6	79.8	42.62	66.9	
Hospitals Outside HSA										
St Marys Medical Center	64.6	8.7	65.71	13.1	268	23.4	5.7	8.63	13.6	
Midmichigan Regional Medical Center	60.0	7.0	39.34	7.9	259	18.2	4.3	3.12	4.9	
All Others						63.3	10.3	9.32	14.6	
All Hospitals						416.5	100.0	63.69	100.0	
Cadillac, MI	46,733									
Hospitals Within HSA										
Mercy Hospital	19.5	72.5	14.78	71.8	133	96.4	59.8	10.62	53.6	
Hospitals Outside HSA										
Munson Medical Center	72.3	4.3	60.12	4.6	353	15.2	13.2	2.73	13.8	
Blodgett Memorial Medical Center	64.9	2.0	61.25	3.5	328	6.7	5.6	2.14	10.8	
All Others						28.9	21.5	4.31	21.8	
All Hospitals						147.2	100.0	19.80	100.0	
Detroit, MI	1,177,213									
Hospitals Within HSA										
Henry Ford Hospital	152.9	61.8	158.95	57.0	682	421.4	10.5	90.64	12.9	
Harper Grace Hospital	113.5	69.8	109.04	61.9	564	393.9	8.8	67.54	9.6	
Sinai Hospital	131.5	60.4	103.55	56.2	530	320.1	8.8	58.19	8.3	
Grace Hospital Northwestern Unit	101.5	78.6	72.70	78.8	482	378.7	8.9	57.27	8.2	
Detroit Rec Hosp & Univ Hlth Center	35.3	94.5	42.29	94.7	322	304.2	3.7	40.06	5.7	
Detroit Riverview Hospital	35.6	95.2	34.56	94.8	230	218.9	3.8	32.77	4.7	
Holy Cross Hospital	52.7	77.2	31.65	78.7	201	155.2	4.5	24.91	3.6	
Saratoga General Hospital	45.1	76.6	28.52	76.0	170	130.1	3.8	21.66	3.1	
Mercy Hospital	30.2	94.4	21.91	94.8	202	190.6	3.2	20.76	3.0	
Michigan Health Center	31.3	89.5	19.55	89.6	356	318.7	3.1	17.51	2.5	
Hutzel Hospital	16.3	53.1	18.14	49.1	394	209.1	1.0	8.91	1.3	
Others Within HSA	1.0	95.1	0.38	93.2	100	95.1	0.1	0.35	0.1	
Hospitals Outside HSA										
St John Hospital & Medical Ctr	144.3	59.8	135.08	55.1	589	351.9	9.6	74.36	10.6	
Bon Secours Hospital	76.4	55.9	53.46	54.5	256	143.1	4.7	29.13	4.2	
All Others						969.5	25.5	157.94	22.5	
All Hospitals						4,600.5	100.0	702.02	100.0	

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Flint, MI	475,811									
Hospitals Within HSA										
Mclaren Regional Medical Center	111.2	86.1	85.22	81.3	436	375.3	32.4	69.27	30.4	
Genesys Reg Med Ctr-St Joseph Campus	75.2	89.7	57.25	89.1	390	349.6	22.8	51.01	22.4	
Genesys Reg Med Ctr-Flint Osteo Campus	59.7	91.8	46.32	91.5	327	300.1	18.6	42.36	18.6	
Hurley Medical Center	47.9	90.6	36.39	89.9	542	490.8	14.7	32.71	14.4	
Others Within HSA	2.3	75.6	1.56	76.8	31	23.4	0.6	1.20	0.5	
Hospitals Outside HSA										
University Hospital	107.6	5.6	151.37	6.2	856	47.6	2.0	9.36	4.1	
All Others						137.6	8.9	21.94	9.6	
All Hospitals						1,724.4	100.0	227.86	100.0	
Grand Haven, MI	42,500									
Hospitals Within HSA										
North Ottawa Community Hospital	11.6	78.9	9.12	78.8	83	65.4	55.2	7.18	51.9	
Hospitals Outside HSA										
Mercy Hospital	34.7	5.7	31.02	6.8	211	11.9	11.8	2.12	15.3	
Hackley Hospital	46.1	4.2	26.97	3.8	252	10.5	11.5	1.02	7.4	
All Others						20.2	21.5	3.52	25.5	
All Hospitals						108.0	100.0	13.84	100.0	
Grand Rapids, MI	652,385									
Hospitals Within HSA										
Butterworth Hospital	94.3	81.5	87.87	76.5	529	431.1	31.5	67.23	32.3	
Blodgett Memorial Medical Center	64.9	76.1	61.25	70.6	328	249.6	20.2	43.21	20.7	
St Marys Health Services	53.9	89.3	47.75	88.9	264	235.7	19.7	42.43	20.4	
Metropolitan Hospital	40.7	86.0	33.48	86.0	206	177.1	14.3	28.79	13.8	
Others Within HSA	2.2	64.3	1.34	63.8	22	14.2	0.6	0.86	0.4	
Hospitals Outside HSA										
United Memorial Hospital	6.3	47.6	4.55	48.2	43	20.4	1.2	2.19	1.1	
All Others						200.8	12.5	23.66	11.4	
All Hospitals						1,328.9	100.0	208.38	100.0	
Grosse Pointe, MI	51,378									
Hospitals Within HSA										
St John Hospital & Medical Ctr	144.3	8.3	135.08	8.0	589	49.1	28.1	10.86	31.7	
Bon Secours Hospital	76.4	20.0	53.46	20.3	256	51.1	35.7	10.84	31.6	
Cottage Hospital	29.5	20.5	21.17	21.0	161	33.1	14.1	4.45	13.0	
Hospitals Outside HSA										
Henry Ford Hospital	152.9	0.6	158.95	1.0	682	4.3	2.3	1.51	4.4	
Harper Grace Hospital	113.5	1.3	109.04	1.1	564	7.5	3.5	1.24	3.6	
All Others						35.8	16.3	5.41	15.8	
All Hospitals						180.9	100.0	34.31	100.0	

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Holland, MI	88,225									
Hospitals Within HSA										
Holland Community Hospital	28.3	83.7	18.90	84.0	177	148.2	67.6	15.88	59.4	
Hospitals Outside HSA										
Butterworth Hospital	94.3	2.0	87.87	3.3	529	10.7	5.4	2.94	11.0	
Zeeland Community Hospital	9.2	33.6	5.69	31.3	53	17.8	8.8	1.78	6.7	
All Others						35.9	18.2	6.13	22.9	
All Hospitals						212.6	100.0	26.71	100.0	
Iron Mountain, MI	39,647									
Hospitals Within HSA										
Dickinson County Memorial Hospital	23.9	86.3	12.80	84.5	99	85.5	65.6	10.82	53.8	
Hospitals Outside HSA										
St Vincent Hospital	74.4	4.1	48.54	4.6	345	14.0	9.6	2.24	11.2	
Bellin Memorial Hospital	30.6	3.8	31.41	4.5	170	6.4	3.7	1.42	7.1	
All Others						37.8	21.1	5.62	28.0	
All Hospitals						143.7	100.0	20.09	100.0	
Jackson, MI	155,656									
Hospitals Within HSA										
W A Foote Memorial Hospital	62.5	88.3	48.05	87.8	365	322.2	67.5	42.21	58.8	
Doctors Hospital Of Jackson	4.2	88.3	3.01	89.6	73	64.5	4.5	2.70	3.8	
Others Within HSA	0.1	45.8	0.10	45.7	24	11.0	0.1	0.05	0.1	
Hospitals Outside HSA										
St Joseph Mercy Hospital	131.8	4.8	145.72	7.4	602	28.6	7.7	10.82	15.1	
University Hospital	107.6	2.4	151.37	2.9	856	20.3	3.1	4.45	6.2	
All Others						87.9	17.2	11.59	16.1	
All Hospitals						534.5	100.0	71.81	100.0	
Kalamazoo, MI	274,951									
Hospitals Within HSA										
Borgess Medical Center	78.8	62.4	91.23	54.2	351	219.0	44.5	49.43	46.5	
Bronson Methodist Hospital	48.8	75.6	53.23	72.0	350	264.7	33.4	38.32	36.0	
Pipp Community Hospital	4.4	88.2	2.74	89.0	43	37.9	3.5	2.44	2.3	
Hospitals Outside HSA										
Lake View Community Hospital	15.4	22.0	9.25	20.2	54	11.9	3.1	1.87	1.8	
Battle Creek Health System	53.4	2.9	48.56	3.2	241	7.0	1.4	1.56	1.5	
All Others						91.5	14.1	12.80	12.0	
All Hospitals						632.0	100.0	106.42	100.0	
Lansing, MI	403,887									
Hospitals Within HSA										
Michigan Capital Medical Ctr, Greenlaw	50.1	71.1	57.57	64.2	258	183.4	20.5	36.96	27.5	
Edward W Sparrow Hospital	65.5	79.5	46.03	79.4	458	364.3	30.0	36.53	27.2	
Michigan Capital Medical Ctr-Pennsylva	51.8	80.3	33.35	79.7	223	179.0	23.9	26.59	19.8	
St Lawrence Hospital	27.8	83.5	18.74	85.2	211	176.2	13.4	15.98	11.9	
Eaton Rapids Community Hospital	3.3	89.4	2.43	88.0	19	17.0	1.7	2.13	1.6	
Hospitals Outside HSA										
University Hospital	107.6	1.4	151.37	1.5	856	12.3	0.9	2.22	1.7	
All Others						99.5	9.7	13.80	10.3	
All Hospitals						1,031.7	100.0	134.22	100.0	

	1992-3 MPDs (1,000s) (3)	% of HOSP's MPDs from HSA (4)	1992-3 MRS (\$ in millions) (5)	% of HOSP's MRS from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HOSP (8)	% of HSA's MPDs by HOSP (9)	HSA MRS by HOSP (\$ in Millions) (10)	% of HSA's MRS by HOSP (11)	
Ludington, MI	25,989									
Hospitals Within HSA										
Memorial Med Center Of West Michigan	16.2	75.3	9.66	75.4	85	64.0	65.3	7.28	54.0	
Hospitals Outside HSA										
Mercy Hospital	34.7	3.5	31.02	5.0	211	7.4	6.5	1.55	11.5	
Blodgett Memorial Medical Center	64.9	0.8	61.25	0.9	328	2.7	2.8	0.57	4.2	
All Others						25.8	25.3	4.10	30.3	
All Hospitals						99.9	100.0	13.48	100.0	
Manistee, MI	20,195									
Hospitals Within HSA										
West Shore Hospital	12.1	81.1	8.63	81.7	54	43.8	58.8	7.05	54.2	
Hospitals Outside HSA										
Munson Medical Center	72.3	4.3	60.12	4.7	353	15.1	18.5	2.85	21.9	
Memorial Med Center Of West Michigan	16.2	6.2	9.66	6.3	85	5.3	6.0	0.60	4.6	
All Others						15.7	16.7	2.52	19.3	
All Hospitals						79.9	100.0	13.01	100.0	
Marquette, MI	64,716									
Hospitals Within HSA										
Marquette General Hospital	63.0	37.1	55.22	35.3	359	133.0	79.0	19.51	78.1	
Hospitals Outside HSA										
Francis A Bell Memorial Hospital	5.1	40.4	5.50	40.9	64	25.8	7.0	2.25	9.0	
St Francis Hospital	18.4	3.5	10.61	3.2	66	2.3	2.2	0.34	1.4	
All Others						26.4	11.9	2.86	11.5	
All Hospitals						187.5	100.0	24.97	100.0	
Midland, MI	73,291									
Hospitals Within HSA										
Midmichigan Regional Medical Center	60.0	59.9	39.34	57.6	259	155.2	76.8	22.67	66.6	
Hospitals Outside HSA										
St Marys Medical Center	64.6	2.6	65.71	4.5	268	6.9	3.5	2.92	8.6	
University Hospital	107.6	0.9	151.37	1.1	856	7.7	2.1	1.69	5.0	
All Others						43.4	17.6	6.73	19.8	
All Hospitals						213.2	100.0	34.02	100.0	
Monroe, MI	83,568									
Hospitals Within HSA										
Mercy-Memorial Hospital	39.5	84.9	22.95	86.4	174	147.7	61.9	19.83	50.1	
Hospitals Outside HSA										
St Vincents Medical Center	80.8	7.0	81.74	8.0	448	31.3	10.4	6.56	16.6	
University Hospital	107.6	1.7	151.37	1.6	856	14.5	3.4	2.38	6.0	
All Others						64.0	24.3	10.83	27.4	
All Hospitals						257.5	100.0	39.60	100.0	

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Muskegon, MI	172,932									
Hospitals Within HSA										
Hackley Hospital	46.1	86.7	26.97	87.8	252	218.6	42.8	23.68	34.7	
Mercy Hospital	34.7	78.7	31.02	74.6	211	166.0	29.2	23.14	33.9	
Muskegon General Hospital	13.5	89.5	9.56	89.4	119	106.5	12.9	8.55	12.5	
Lakeshore Community Hospital	2.3	83.4	1.33	81.8	32	26.7	2.0	1.09	1.6	
Hospitals Outside HSA										
Butterworth Hospital	94.3	1.2	87.87	1.8	529	6.5	1.2	1.58	2.3	
Blodgett Memorial Medical Center	64.9	1.6	61.25	2.2	328	5.2	1.1	1.33	2.0	
All Others						57.8	10.8	8.81	12.9	
All Hospitals						587.3	100.0	68.19	100.0	
Petoskey, MI	62,514									
Hospitals Within HSA										
Northern Michigan Hospitals	54.8	46.5	43.16	43.5	261	121.4	64.3	18.79	63.8	
Others Within HSA	0.3	79.9	0.15	82.5	15	12.0	0.6	0.12	0.4	
Hospitals Outside HSA										
Community Memorial Hospital	10.0	40.7	7.19	39.1	63	25.6	10.2	2.81	9.5	
Alpena General Hospital	28.3	7.2	17.69	6.4	176	12.7	5.1	1.13	3.8	
All Others						45.9	19.7	6.60	22.4	
All Hospitals						217.6	100.0	29.45	100.0	
Pontiac, MI	306,985									
Hospitals Within HSA										
St Joseph Mercy Hospital	87.1	61.5	74.33	61.7	451	277.4	35.0	45.88	36.6	
North Oakland Medical Center	35.2	83.5	28.71	83.4	269	224.5	19.2	23.94	19.1	
Pontiac Osteopathic Hospital	28.1	75.9	19.27	75.3	187	142.0	13.9	14.50	11.6	
Hospitals Outside HSA										
William Beaumont Hospital	223.0	4.2	214.32	3.9	843	35.0	6.0	8.45	6.7	
Crittenton Hospital	43.9	18.1	32.68	18.0	215	39.0	5.2	5.88	4.7	
All Others						162.6	20.7	26.88	21.4	
All Hospitals						880.5	100.0	125.53	100.0	
Port Huron, MI	125,397									
Hospitals Within HSA										
Port Huron Hospital	35.0	83.7	27.29	81.0	188	157.3	37.5	22.10	33.5	
Mercy Hospital	32.6	78.7	25.79	77.8	119	93.7	32.9	20.06	30.4	
Yale Community Hospital Inc	1.5	84.9	1.18	87.1	22	18.7	1.6	1.03	1.6	
Hospitals Outside HSA										
St John Hospital & Medical Ctr	144.3	2.2	135.08	4.4	589	13.0	4.1	5.99	9.1	
River District Hospital	11.6	25.2	8.47	25.5	68	17.1	3.7	2.16	3.3	
All Others						92.4	20.2	14.61	22.2	
All Hospitals						392.2	100.0	65.94	100.0	

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Saginaw, MI 229,761										
Hospitals Within HSA										
St Lukes Hospital	69.0	84.0	49.83	80.4	262	220.1	40.8	40.05	37.3	
St Marys Medical Center	64.6	54.4	65.71	44.9	268	145.9	24.8	29.52	27.5	
Saginaw General Hospital	36.6	80.7	26.59	78.6	262	211.4	20.8	20.90	19.5	
Hospitals Outside HSA										
University Hospital	107.6	2.1	151.37	2.1	856	17.5	1.6	3.21	3.0	
Midmichigan Regional Medical Center	60.0	4.2	39.34	3.9	259	11.0	1.8	1.53	1.4	
All Others						91.6	10.4	12.19	11.4	
All Hospitals						697.5	100.0	107.39	100.0	
St Joseph, MI 106,962										
Hospitals Within HSA										
Mercy Memorial Medical Center Inc	54.7	81.8	39.35	78.3	254	207.8	69.3	30.79	66.0	
Hospitals Outside HSA										
Berrien General Hospital	6.1	68.0	3.40	70.5	55	37.4	6.4	2.40	5.1	
Community Hospital	11.7	29.7	6.65	30.1	56	16.7	5.4	2.00	4.3	
All Others						66.6	18.9	11.48	24.6	
All Hospitals						328.5	100.0	46.67	100.0	
Traverse City, MI 123,554										
Hospitals Within HSA										
Munson Medical Center	72.3	67.0	60.12	64.6	353	236.6	66.2	38.82	66.4	
Traverse City Community Hospital	10.3	84.5	7.52	84.8	83	70.2	11.8	6.38	10.9	
Kalkaska Memorial Health Center	1.4	94.1	0.85	93.9	13	12.2	1.8	0.79	1.4	
Hospitals Outside HSA										
Northern Michigan Hospitals	54.8	3.3	43.16	3.3	261	8.6	2.5	1.43	2.5	
Paul Oliver Memorial Hospital	3.1	47.9	2.70	50.3	26	12.5	2.0	1.36	2.3	
All Others						67.1	15.7	9.68	16.6	
All Hospitals						407.2	100.0	58.47	100.0	
Akron, OH 448,050										
Hospitals Within HSA										
Summa Health Systems	199.9	86.9	160.50	85.2	659	572.5	48.6	136.78	49.9	
Akron General Medical Ctr	135.8	79.1	108.31	74.7	478	378.2	30.1	80.91	29.5	
Cuyahoga Falls General Hospital	28.5	85.2	20.04	86.8	257	219.0	6.8	17.40	6.4	
Hospitals Outside HSA										
Barberton Citizens Hospital	66.4	36.5	39.48	35.0	213	77.8	6.8	13.80	5.0	
Cleveland Clinic Hospital	175.4	3.3	249.66	3.3	936	30.7	1.6	8.31	3.0	
All Others						115.4	6.2	16.73	6.1	
All Hospitals						1,393.6	100.0	273.93	100.0	
Alliance, OH 49,003										
Hospitals Within HSA										
Alliance Community Hospital	31.8	73.1	18.95	75.9	130	95.1	62.9	14.38	55.0	
Hospitals Outside HSA										
Timken Mercy Medical Center	99.2	4.6	58.84	6.2	426	19.7	12.4	3.64	14.0	
Aultman Hospital	136.0	2.6	82.40	2.9	682	18.0	9.7	2.38	9.1	
All Others						27.9	15.0	5.73	21.9	
All Hospitals						160.7	100.0	26.13	100.0	

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Barberton, OH	58,441									
Hospitals Within HSA										
Barberton Citizens Hospital	66.4	51.9	39.48	53.2	213	110.6	64.5	20.98	53.7	
Hospitals Outside HSA										
Akron General Medical Ctr	135.8	6.8	108.31	8.5	478	32.5	17.3	9.18	23.5	
Summa Health Systems	199.9	2.4	160.50	2.7	659	16.0	9.1	4.27	10.9	
All Others						26.6	9.2	4.67	12.0	
All Hospitals						185.7	100.0	39.10	100.0	
Bryan, OH	41,316									
Hospitals Within HSA										
Community Hospital	17.8	83.2	12.37	81.1	136	113.1	61.3	10.03	52.1	
Hospitals Outside HSA										
St Joseph Medical Ctr Of Ft Wayne, Inc	58.7	2.6	47.99	4.3	280	7.1	6.2	2.08	10.8	
Lutheran Hospital Of Indiana Inc	67.3	1.8	61.91	2.1	381	6.7	4.9	1.29	6.7	
All Others						40.4	27.7	5.86	30.4	
All Hospitals						167.3	100.0	19.27	100.0	
Cambridge, OH	53,895									
Hospitals Within HSA										
Guernsey Memorial Hospital	33.8	85.4	17.10	85.9	115	98.3	63.0	14.68	52.5	
Hospitals Outside HSA										
Riverside Methodist Hospital	198.0	1.2	167.80	1.8	805	9.9	5.3	2.94	10.5	
Bethesda Hospital Association	42.3	6.5	27.81	6.8	217	14.2	6.0	1.90	6.8	
All Others						66.6	25.6	8.42	30.1	
All Hospitals						189.0	100.0	27.94	100.0	
Canton, OH	268,826									
Hospitals Within HSA										
Aultman Hospital	136.0	76.1	82.40	72.5	682	519.1	47.4	59.78	43.6	
Timken Mercy Medical Center	99.2	75.0	58.84	71.5	426	319.6	34.1	42.05	30.7	
Hospitals Outside HSA										
Cleveland Clinic Hospital	175.4	3.8	249.66	4.4	936	35.3	3.0	10.90	8.0	
Doctors Hospital Inc	28.5	41.5	19.65	41.3	162	67.2	5.4	8.12	5.9	
All Others						109.2	10.0	16.24	11.9	
All Hospitals						1,050.4	100.0	137.08	100.0	
Chardon, OH	50,047									
Hospitals Within HSA										
Geauga Hospital	20.2	56.7	18.48	56.2	100	56.7	55.8	10.39	56.3	
Hospitals Outside HSA										
Cleveland Clinic Hospital	175.4	0.6	249.66	0.6	936	5.6	5.2	1.37	7.4	
University Hospitals Of Cleveland	95.1	1.0	116.44	1.1	656	6.2	4.4	1.23	6.7	
All Others						34.9	34.6	5.45	29.6	
All Hospitals						103.4	100.0	18.46	100.0	

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Chillicothe, OH	74,261									
Hospitals Within HSA										
Medical Center Hospital	33.2	75.6	23.56	75.8	171	129.3	59.4	17.85	53.5	
Hospitals Outside HSA										
Ohio State University Hospital	77.2	3.4	80.87	4.4	680	22.9	6.1	3.58	10.7	
Mt Carmel Health Center	189.6	1.8	141.28	2.5	764	13.7	8.0	3.57	10.7	
All Others						58.9	26.4	8.36	25.0	
All Hospitals						224.8	100.0	33.36	100.0	
Cincinnati, OH	1,102,793									
Hospitals Within HSA										
Bethesda Hospital	117.1	89.3	83.09	89.2	630	562.8	15.1	74.13	13.7	
Jewish Hospital Of Cincinnati Inc	101.7	85.5	84.63	84.7	489	417.9	12.6	71.71	13.3	
Good Samaritan Hospital	86.6	86.2	74.06	84.8	473	407.6	10.8	62.79	11.6	
Christ Hospital	91.8	71.1	87.01	66.3	550	391.0	9.4	57.69	10.7	
University Of Cincinnati Med Center	66.8	78.2	82.91	69.0	519	405.7	7.6	57.21	10.6	
St Francis-St George Hospital Inc	88.8	95.8	57.79	96.0	217	207.9	12.3	55.45	10.3	
Providence Hospital	70.0	92.2	48.84	92.1	171	157.7	9.3	45.01	8.3	
Deaconess Hospital	71.7	86.1	51.73	82.5	245	210.9	8.9	42.66	7.9	
Mercy Hospital Anderson	40.0	85.3	31.13	84.9	192	163.8	4.9	26.41	4.9	
Jewish Hospital Kenwood	9.5	92.5	6.64	92.0	51	47.2	1.3	6.11	1.1	
Hospitals Outside HSA										
Mercy Hospital Of Hamilton & Fairfield	44.7	26.4	32.86	27.7	211	55.8	1.7	9.09	1.7	
Clermont Mercy Hospital	26.5	32.3	18.83	33.1	151	48.7	1.2	6.22	1.2	
All Others						177.6	4.8	24.86	4.6	
All Hospitals						3,254.6	100.0	539.35	100.0	
Cleveland, OH	953,736									
Hospitals Within HSA										
Mt Sinai Medical Center	85.7	81.7	84.16	79.9	360	294.2	8.7	67.22	11.0	
University Hospitals Of Cleveland	95.1	58.9	116.44	56.0	656	386.3	7.0	65.17	10.6	
Metro Health Medical Center	88.1	64.9	77.33	64.4	694	450.1	7.1	49.82	8.1	
Cleveland Clinic Hospital	175.4	24.5	249.66	19.9	936	229.1	5.4	49.66	8.1	
Fairview General Hospital	92.9	72.7	67.68	71.3	453	329.5	8.4	48.28	7.9	
St Lukes Hospital Association	51.5	81.6	44.85	75.7	339	276.6	5.2	33.95	5.5	
Meridia Huron Hospital	55.3	77.1	47.29	64.6	289	222.9	5.3	30.54	5.0	
St Vincent Charity Hospital	56.9	63.0	55.37	50.9	266	167.5	4.5	28.19	4.6	
Deaconess Hospital	67.4	61.9	38.22	63.1	197	121.9	5.2	24.12	3.9	
Meridia Suburban Hospital	45.2	76.2	25.51	75.5	139	105.9	4.3	19.25	3.1	
Lutheran Medical Center	49.2	62.7	28.73	62.8	186	116.7	3.9	18.04	2.9	
St Alexis Hospital	24.6	79.8	19.39	80.2	133	106.1	2.4	15.54	2.5	
Brentwood Hospital	27.2	63.9	20.08	60.8	152	97.1	2.2	12.21	2.0	
Richmond Heights General Hospital	25.8	43.0	19.51	42.9	220	94.7	1.4	8.37	1.4	
Others Within HSA	2.1	89.8	1.20	86.6	48	43.1	0.2	1.04	0.2	
Hospitals Outside HSA										
Lakewood Hospital	101.6	44.9	63.64	44.6	289	129.6	5.7	28.35	4.6	
Meridia Hillcrest Hospital	78.5	42.5	54.76	41.7	272	115.5	4.2	22.86	3.7	
All Others						618.0	19.0	91.12	14.8	
All Hospitals						3,904.8	100.0	613.74	100.0	

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Columbus, OH	1,108,432									
Hospitals Within HSA										
Mt Carmel Health Center	189.6	83.2	141.28	78.8	764	635.6	28.8	111.33	27.3	
Riverside Methodist Hospital	198.0	65.6	167.80	55.7	805	528.0	23.7	93.42	22.9	
Doctors Hospital	77.5	81.5	57.85	77.2	404	329.4	11.5	44.64	11.0	
Grant Medical Center	70.2	61.0	71.29	50.6	408	248.7	7.8	36.08	8.9	
Ohio State University Hospital	77.2	42.9	80.87	35.9	680	291.9	6.1	29.02	7.1	
Park Medical Center	37.3	82.8	30.81	80.6	155	128.4	5.6	24.82	6.1	
St Anns Hospital Of Columbus	37.3	89.4	24.84	88.2	150	134.1	6.1	21.92	5.4	
Columbus Community Hospital	17.0	93.5	12.47	93.5	90	84.2	2.9	11.66	2.9	
Arthur G James Cancer Hosp & Rsch Inst19.1		32.2	27.90	31.9	128	41.2	1.1	8.90	2.2	
Hospitals Outside HSA										
All Others						198.5	6.3	25.45	6.3	
All Hospitals						2,620.0	100.0	407.24	100.0	
Dayton, OH	534,433									
Hospitals Within HSA										
Miami Valley Hospital	114.6	67.2	89.12	64.3	594	399.0	22.8	57.32	23.3	
Good Samaritan Hosp & Health Center	107.7	76.2	86.05	66.0	560	426.6	24.3	56.76	23.0	
St Elizabeth Medical Center	93.0	77.6	68.52	71.8	419	324.9	21.3	49.19	20.0	
Grandview Hospital & Medical Center	59.8	66.8	53.07	66.0	458	306.1	11.8	35.00	14.2	
Hospitals Outside HSA										
Kettering Medical Center	108.3	28.4	88.85	25.4	515	146.5	9.1	22.54	9.2	
Greene Memorial Hospital	26.2	24.5	15.68	24.8	198	48.6	1.9	3.89	1.6	
All Others						148.8	8.8	21.62	8.8	
All Hospitals						1,800.5	100.0	246.32	100.0	
Delaware, OH	36,873									
Hospitals Within HSA										
Grady Memorial Hospital	11.8	74.5	9.19	72.4	80	59.6	54.5	6.66	50.5	
Hospitals Outside HSA										
Riverside Methodist Hospital	198.0	1.6	167.80	1.8	805	12.6	19.1	2.98	22.6	
Ohio State University Hospital	77.2	0.8	80.87	0.9	680	5.7	4.0	0.69	5.2	
All Others						18.9	22.3	2.87	21.7	
All Hospitals						96.8	100.0	13.19	100.0	
East Liverpool, OH	48,817									
Hospitals Within HSA										
East Liverpool City Hospital	28.7	89.5	16.87	89.6	166	148.6	56.8	15.11	48.5	
Potters Medical Center	2.1	53.0	1.15	51.9	43	22.8	2.5	0.60	1.9	
Hospitals Outside HSA										
Western Pennsylvania Hospital	144.8	1.2	118.53	2.0	510	6.2	3.9	2.35	7.5	
Medical Center	124.8	3.0	65.27	3.5	439	13.1	8.2	2.31	7.4	
All Others						63.1	28.5	10.77	34.6	
All Hospitals						253.8	100.0	31.15	100.0	

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Elyria, OH	105,467									
Hospitals Within HSA										
Elyria Memorial Hospital	52.4	73.2	41.03	66.4	280	204.9	63.4	27.25	61.8	
Hospitals Outside HSA										
Lorain Community Hospital	51.6	10.0	33.24	9.9	219	22.0	8.6	3.30	7.5	
Cleveland Clinic Hospital	175.4	1.3	249.66	1.3	936	12.6	3.9	3.22	7.3	
All Others						79.4	24.2	10.35	23.5	
All Hospitals						318.9	100.0	44.13	100.0	
Findlay, OH	69,747									
Hospitals Within HSA										
Blanchard Valley Hospital	36.1	72.3	21.68	72.3	158	114.2	73.1	15.67	60.8	
Hospitals Outside HSA										
Toledo Hospital	136.7	0.9	114.65	1.3	681	6.0	3.4	1.52	5.9	
Riverside Methodist Hospital	198.0	0.5	167.80	0.9	805	4.1	2.8	1.52	5.9	
All Others						45.6	20.7	7.09	27.4	
All Hospitals						169.9	100.0	25.80	100.0	
Galion, OH	25,792									
Hospitals Within HSA										
Galion Community Hospital	13.3	75.5	8.28	74.6	91	68.7	50.1	6.18	42.6	
Crestline Memorial Hospital	8.3	35.1	3.55	37.3	40	14.0	14.6	1.32	9.1	
Hospitals Outside HSA										
Riverside Methodist Hospital	198.0	0.8	167.80	1.3	805	6.4	7.9	2.17	15.0	
Mansfield General Hospital	62.9	2.8	34.50	3.0	319	9.1	8.9	1.05	7.2	
All Others						24.0	18.6	3.78	26.0	
All Hospitals						122.2	100.0	14.49	100.0	
Gallipolis, OH	68,718									
Hospitals Within HSA										
Holzer Medical Center	47.2	68.1	24.86	69.0	269	183.2	59.5	17.14	50.1	
Oak Hill Community Medical Center	3.9	89.5	2.02	88.6	42	37.6	6.5	1.79	5.2	
Hospitals Outside HSA										
Ohio State University Hospital	77.2	3.6	80.87	3.9	680	24.3	5.1	3.12	9.1	
Pleasant Valley Hospital	19.6	20.4	10.05	20.8	108	22.1	7.4	2.09	6.1	
All Others						61.1	21.6	10.06	29.4	
All Hospitals						328.3	100.0	34.20	100.0	
Hamilton, OH	149,045									
Hospitals Within HSA										
Mercy Hospital Of Hamilton & Fairfield	44.7	65.2	32.86	63.3	211	137.5	38.8	20.80	35.9	
Ft Hamilton Hughes Memorial Hospital	30.0	86.1	19.47	86.9	217	186.9	34.5	16.92	29.2	
Hospitals Outside HSA										
Christ Hospital	91.8	4.5	87.01	6.3	550	24.6	5.5	5.47	9.4	
University Of Cincinnati Med Center	66.8	2.1	82.91	3.4	519	10.7	1.8	2.83	4.9	
All Others						67.5	19.5	11.96	20.6	
All Hospitals						427.2	100.0	57.99	100.0	

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Kettering, OH	199,811									
Hospitals Within HSA										
Kettering Medical Center	108.3	50.1	88.85	47.0	515	257.8	44.8	41.73	46.2	
Sycamore Medical Center	25.9	71.1	15.57	70.1	125	88.9	15.2	10.92	12.1	
Hospitals Outside HSA										
Miami Valley Hospital	114.6	17.5	89.12	17.3	594	103.8	16.6	15.43	17.1	
Grandview Hospital & Medical Center	59.8	15.1	53.07	16.0	458	69.1	7.5	8.50	9.4	
All Others						96.5	15.9	13.77	15.2	
All Hospitals						616.1	100.0	90.35	100.0	
Lakewood, OH	59,702									
Hospitals Within HSA										
Lakewood Hospital	101.6	38.7	63.64	37.4	289	111.9	71.3	23.80	66.8	
Hospitals Outside HSA										
Cleveland Clinic Hospital	175.4	1.2	249.66	1.0	936	10.9	3.7	2.59	7.3	
Fairview General Hospital	92.9	3.8	67.68	3.7	453	17.0	6.3	2.52	7.1	
All Others						53.7	18.6	6.73	18.9	
All Hospitals						193.5	100.0	35.65	100.0	
Lancaster, OH	74,606									
Hospitals Within HSA										
Fairfield Medical Center	37.1	80.9	24.19	80.3	195	157.8	66.3	19.42	55.8	
Hospitals Outside HSA										
Riverside Methodist Hospital	198.0	1.8	167.80	2.7	805	14.6	7.9	4.59	13.2	
Mt Carmel Health Center	189.6	1.9	141.28	2.3	764	14.8	8.1	3.25	9.3	
All Others						48.4	17.7	7.56	21.7	
All Hospitals						235.6	100.0	34.81	100.0	
Lima, OH	176,674									
Hospitals Within HSA										
St Ritas Medical Center	55.7	85.2	33.01	85.8	316	269.2	46.3	28.31	39.1	
Lima Memorial Hospital	39.3	84.3	25.45	82.9	222	187.1	32.3	21.09	29.1	
Hospitals Outside HSA										
Good Samaritan Hosp & Health Center	107.7	5.4	86.05	9.9	560	30.2	5.7	8.49	11.7	
Ohio State University Hospital	77.2	1.4	80.87	1.3	680	9.2	1.0	1.08	1.5	
All Others						91.8	14.8	13.40	18.5	
All Hospitals						587.5	100.0	72.37	100.0	
Lorain, OH	135,692									
Hospitals Within HSA										
St Joseph Hospital & Health Center	42.7	87.8	28.86	88.2	207	181.7	36.2	25.46	33.7	
Lorain Community Hospital	51.6	69.4	33.24	69.6	219	152.0	34.6	23.14	30.6	
Amherst Hospital	7.0	86.4	4.31	85.0	71	61.4	5.9	3.67	4.9	
Hospitals Outside HSA										
Elyria Memorial Hospital	52.4	13.7	41.03	19.1	280	38.4	6.9	7.83	10.4	
Cleveland Clinic Hospital	175.4	2.7	249.66	2.5	936	25.3	4.6	6.27	8.3	
All Others						71.9	11.9	9.27	12.3	
All Hospitals						530.7	100.0	75.64	100.0	

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Mansfield, OH	115,010									
Hospitals Within HSA										
Mansfield General Hospital	62.9	76.5	34.50	74.3	319	243.9	67.6	25.63	54.9	
Peoples Hospital Inc	7.2	95.1	3.89	93.8	62	59.0	9.6	3.65	7.8	
Hospitals Outside HSA										
Riverside Methodist Hospital	198.0	1.8	167.80	2.6	805	14.6	5.1	4.33	9.3	
Cleveland Clinic Hospital	175.4	1.1	249.66	1.1	936	10.3	2.7	2.81	6.0	
All Others						70.7	15.1	10.25	22.0	
All Hospitals						398.5	100.0	46.67	100.0	
Marietta, OH	60,139									
Hospitals Within HSA										
Marietta Memorial Hospital	25.8	80.7	15.53	80.8	159	128.3	53.0	12.54	44.4	
Selby General Hospital	6.3	70.2	4.50	68.8	76	53.3	11.2	3.10	11.0	
Hospitals Outside HSA										
Ohio State University Hospital	77.2	2.3	80.87	3.2	680	15.9	4.6	2.59	9.2	
St Josephs Hospital	57.7	6.3	32.49	7.2	274	17.4	9.3	2.32	8.2	
All Others						37.8	21.8	7.72	27.3	
All Hospitals						252.7	100.0	28.28	100.0	
Marion, OH	72,421									
Hospitals Within HSA										
Marion General Hospital	24.0	78.9	16.69	80.4	151	119.1	45.5	13.42	39.6	
Medical Center Hospital Inc	18.5	63.3	13.24	63.7	100	63.3	28.2	8.43	24.9	
Hospitals Outside HSA										
Riverside Methodist Hospital	198.0	2.0	167.80	3.4	805	16.1	9.5	5.77	17.0	
Ohio State University Hospital	77.2	1.1	80.87	1.2	680	7.6	2.1	0.98	2.9	
All Others						36.0	14.6	5.34	15.7	
All Hospitals						242.1	100.0	33.93	100.0	
Massillon, OH	100,327									
Hospitals Within HSA										
Massillon Community Hospital	26.3	80.5	17.04	83.2	159	127.9	36.1	14.17	33.8	
Doctors Hospital Inc	28.5	42.5	19.65	41.6	162	68.8	20.7	8.17	19.5	
Hospitals Outside HSA										
Aultman Hospital	136.0	7.7	82.40	8.3	682	52.8	18.0	6.82	16.3	
Timken Mercy Medical Center	99.2	6.4	58.84	7.3	426	27.4	10.9	4.30	10.3	
All Others						45.6	14.4	8.41	20.1	
All Hospitals						322.5	100.0	41.87	100.0	
Middletown, OH	107,263									
Hospitals Within HSA										
Middletown Hospital Association	47.8	83.8	34.47	83.5	248	207.8	65.2	28.77	59.2	
Hospitals Outside HSA										
Kettering Medical Center	108.3	4.4	88.85	6.1	515	22.8	7.8	5.45	11.2	
Christ Hospital	91.8	2.3	87.01	3.5	550	12.7	3.5	3.06	6.3	
All Others						82.9	23.5	11.36	23.3	
All Hospitals						326.2	100.0	48.63	100.0	

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Newark, OH	97,767									
Hospitals Within HSA										
Licking Memorial Hospital	34.8	83.2	24.68	84.3	159	132.2	60.1	20.81	52.9	
Hospitals Outside HSA										
Riverside Methodist Hospital	198.0	2.6	167.80	3.6	805	21.1	10.8	6.11	15.5	
Ohio State University Hospital	77.2	2.9	80.87	3.5	680	19.8	4.7	2.82	7.2	
All Others						60.3	24.5	9.61	24.4	
All Hospitals						233.4	100.0	39.33	100.0	
Oregon, OH	88,211									
Hospitals Within HSA										
St Charles Hospital	63.0	68.7	39.05	69.9	265	182.0	59.3	27.29	53.5	
Hospitals Outside HSA										
St Vincents Medical Center	80.8	8.0	81.74	8.6	448	35.6	8.8	7.05	13.8	
Riverside Hospital	41.5	17.8	26.79	18.1	266	47.2	10.1	4.85	9.5	
All Others						81.1	21.8	11.86	23.2	
All Hospitals						345.9	100.0	51.04	100.0	
Parma, OH	280,489									
Hospitals Within HSA										
Parma Community General Hospital	104.6	69.0	60.82	69.7	321	221.6	31.0	42.39	26.4	
Southwest General Hospital	71.2	78.2	45.46	78.1	272	212.7	23.9	35.52	22.1	
Kaiser Foundation Hospital	17.5	43.3	4.76	42.6	82	35.5	3.3	2.03	1.3	
Hospitals Outside HSA										
Cleveland Clinic Hospital	175.4	5.8	249.66	5.3	936	53.8	4.3	13.29	8.3	
Deaconess Hospital	67.4	32.1	38.22	31.8	197	63.2	9.3	12.14	7.6	
All Others						348.3	28.2	55.24	34.4	
All Hospitals						935.1	100.0	160.62	100.0	
Piqua, OH	45,920									
Hospitals Within HSA										
Piqua Memorial Medical Center	27.4	78.7	14.27	78.4	149	117.2	66.1	11.19	54.0	
Hospitals Outside HSA										
Stouder Memorial Hospital	29.8	12.3	19.17	13.4	138	17.0	11.3	2.57	12.4	
Miami Valley Hospital	114.6	1.1	89.12	1.8	594	6.5	3.9	1.57	7.6	
All Others						34.6	18.8	5.39	26.0	
All Hospitals						175.3	100.0	20.70	100.0	
Portsmouth, OH	97,331									
Hospitals Within HSA										
Southern Ohio Medical Center	66.6	91.3	33.13	90.5	286	261.0	70.6	29.97	58.1	
Hospitals Outside HSA										
Grant Medical Center	70.2	4.4	71.29	5.1	408	17.9	3.6	3.63	7.0	
Riverside Methodist Hospital	198.0	1.3	167.80	1.7	805	10.8	3.1	2.79	5.4	
All Others						120.3	22.8	15.20	29.5	
All Hospitals						410.0	100.0	51.58	100.0	

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Ravenna, OH	123,332									
Hospitals Within HSA										
Robinson Memorial Hospital	40.8	87.2	30.19	87.2	285	248.5	60.0	26.33	54.7	
Hospitals Outside HSA										
Akron General Medical Ctr	135.8	3.8	108.31	5.4	478	18.1	8.7	5.85	12.2	
Summa Health Systems	199.9	2.7	160.50	3.0	659	17.5	8.9	4.80	10.0	
All Others						75.2	22.5	11.15	23.2	
All Hospitals						359.3	100.0	48.12	100.0	
Salem, OH	70,225									
Hospitals Within HSA										
Salem Community Hospital	32.4	84.3	21.89	84.4	156	131.5	56.6	18.48	51.4	
Hospitals Outside HSA										
St Elizabeth Hospital	169.1	2.8	107.66	3.6	572	15.8	9.7	3.83	10.7	
Yha, Inc	142.4	2.6	89.91	3.3	485	12.5	7.6	2.93	8.2	
All Others						73.7	26.0	10.70	29.8	
All Hospitals						233.5	100.0	35.93	100.0	
Sandusky, OH	67,299									
Hospitals Within HSA										
Firelands Community Hospital	32.9	71.0	19.61	70.8	183	129.9	41.6	13.89	35.2	
Providence Hospital	27.4	72.2	15.84	72.0	215	155.3	35.3	11.40	28.9	
Hospitals Outside HSA										
St Vincent Charity Hospital	56.9	3.8	55.37	6.8	266	10.2	3.9	3.75	9.5	
Cleveland Clinic Hospital	175.4	0.9	249.66	0.8	936	8.0	2.7	1.88	4.8	
All Others						53.7	16.5	8.50	21.6	
All Hospitals						357.1	100.0	39.44	100.0	
Sidney, OH	36,536									
Hospitals Within HSA										
Wilson Memorial Hospital	18.5	83.6	8.89	84.3	101	84.4	65.1	7.50	50.9	
Hospitals Outside HSA										
Good Samaritan Hosp & Health Center	107.7	1.5	86.05	2.5	560	8.2	6.6	2.16	14.6	
Stouder Memorial Hospital	29.8	3.9	19.17	4.7	138	5.4	5.0	0.91	6.2	
All Others						31.3	23.3	4.18	28.3	
All Hospitals						129.3	100.0	14.73	100.0	
Springfield, OH	124,437									
Hospitals Within HSA										
Mercy Medical Center Of Springfield	52.9	82.7	36.27	81.7	218	180.3	47.2	29.62	42.3	
Community Hospital Of Springfield	39.5	85.9	27.11	85.1	199	171.0	36.6	23.08	33.0	
Hospitals Outside HSA										
St Elizabeth Medical Center	93.0	3.1	68.52	7.3	419	12.8	3.1	4.98	7.1	
Good Samaritan Hosp & Health Center	107.7	1.5	86.05	2.8	560	8.1	1.7	2.39	3.4	
All Others						65.2	11.5	9.88	14.1	
All Hospitals						437.4	100.0	69.96	100.0	

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Steubenville, OH	68,262									
Hospitals Within HSA										
Ohio Valley Hospital	32.8	83.8	16.52	83.7	369	309.3	38.4	13.82	30.2	
St John Medical Center	34.3	75.7	17.47	74.9	163	123.3	36.2	13.09	28.6	
Hospitals Outside HSA										
Presbyterian University Hospital	194.1	1.5	214.57	2.2	1107	17.0	4.2	4.75	10.4	
Allegheny General Hospital	183.7	1.8	185.13	1.9	724	13.0	4.6	3.44	7.5	
All Others						57.6	16.6	10.67	23.3	
All Hospitals						520.2	100.0	45.76	100.0	
Toledo, OH	382,633									
Hospitals Within HSA										
Toledo Hospital	136.7	68.2	114.65	64.4	681	464.7	28.9	73.83	30.4	
St Vincents Medical Center	80.8	59.4	81.74	53.0	448	266.3	14.9	43.31	17.8	
Mercy Hospital	43.5	82.0	30.60	82.0	189	154.9	11.1	25.10	10.3	
Medical College Of Ohio At Toledo	49.1	50.8	47.37	45.3	272	138.2	7.7	21.47	8.8	
Riverside Hospital	41.5	75.4	26.79	75.6	266	200.6	9.7	20.26	8.3	
Parkview Hospital	10.5	75.5	8.75	75.2	80	60.4	2.5	6.58	2.7	
Hospitals Outside HSA										
Flower Hospital	58.2	60.4	37.18	58.1	151	91.2	10.9	21.61	8.9	
St Lukes Hospital	60.3	40.7	38.56	39.4	243	99.0	7.6	15.21	6.3	
All Others						108.9	6.8	15.88	6.5	
All Hospitals						1,584.2	100.0	243.23	100.0	
Troy, OH	50,113									
Hospitals Within HSA										
Stouder Memorial Hospital	29.8	60.0	19.17	58.4	138	82.7	63.6	11.19	56.2	
Hospitals Outside HSA										
Miami Valley Hospital	114.6	1.9	89.12	2.6	594	11.1	7.6	2.35	11.8	
Good Samaritan Hosp & Health Center	107.7	2.0	86.05	2.3	560	11.4	7.8	2.00	10.1	
All Others						32.2	20.9	4.36	21.9	
All Hospitals						137.4	100.0	19.89	100.0	
Van Wert, OH	31,165									
Hospitals Within HSA										
Van Wert County Hospital	10.6	84.2	7.03	85.5	100	84.2	56.0	6.01	51.9	
Hospitals Outside HSA										
Lutheran Hospital Of Indiana Inc	67.3	3.0	61.91	3.6	381	11.6	12.9	2.23	19.3	
Parkview Memorial Hospital Inc	108.9	0.9	80.82	0.9	582	5.2	6.1	0.70	6.0	
All Others						25.2	25.0	2.64	22.8	
All Hospitals						126.2	100.0	11.58	100.0	
Warren, OH	181,045									
Hospitals Within HSA										
Trumbull Memorial Hospital	85.6	89.3	48.44	89.8	373	332.9	47.2	43.47	37.7	
St Joseph Riverside Hospital	31.5	90.1	21.96	89.6	181	163.1	17.5	19.68	17.1	
Warren General Hospital	22.0	75.9	16.64	77.2	228	173.0	10.3	12.84	11.1	
Hospitals Outside HSA										
St Elizabeth Hospital	169.1	7.3	107.66	10.6	572	41.9	7.7	11.42	9.9	
Cleveland Clinic Hospital	175.4	3.6	249.66	4.0	936	33.6	3.9	10.07	8.7	
All Others						102.7	13.5	17.85	15.5	
All Hospitals						847.2	100.0	115.33	100.0	

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Wooster, OH	67,900									
Hospitals Within HSA										
Wooster Community Hospital	19.4	82.1	14.74	79.6	115	94.4	54.8	11.74	50.5	
Hospitals Outside HSA										
Cleveland Clinic Hospital	175.4	0.9	249.66	0.9	936	8.3	5.3	2.30	9.9	
Aultman Hospital	136.0	1.3	82.40	2.1	682	8.8	6.0	1.74	7.5	
All Others						55.7	33.8	7.43	32.0	
All Hospitals						167.2	100.0	23.23	100.0	
Xenia, OH	53,694									
Hospitals Within HSA										
Greene Memorial Hospital	26.2	61.2	15.68	62.5	198	121.2	61.6	9.79	52.2	
Hospitals Outside HSA										
Kettering Medical Center	108.3	2.2	88.85	2.8	515	11.6	9.3	2.49	13.3	
Miami Valley Hospital	114.6	1.9	89.12	2.5	594	11.2	8.3	2.22	11.8	
All Others						28.8	20.7	4.27	22.8	
All Hospitals						172.8	100.0	18.77	100.0	
Youngstown, OH	302,953									
Hospitals Within HSA										
St Elizabeth Hospital	169.1	81.1	107.66	74.2	572	464.1	42.9	79.91	39.3	
Yha, Inc	142.4	88.2	89.91	84.5	485	427.9	39.2	75.93	37.3	
Youngstown Osteopathic Hospital	22.9	85.9	16.49	84.9	152	130.6	6.2	14.00	6.9	
Hospitals Outside HSA										
Cleveland Clinic Hospital	175.4	3.5	249.66	4.2	936	33.1	1.9	10.53	5.2	
Sharon Regional Health System	51.8	13.6	28.74	13.6	194	26.3	2.2	3.91	1.9	
All Others						131.0	7.6	19.04	9.4	
All Hospitals						1,213.0	100.0	203.32	100.0	
Zanesville, OH	121,637									
Hospitals Within HSA										
Good Samaritan Medical Center	48.3	77.0	29.47	78.9	250	192.5	44.4	23.26	39.8	
Bethesda Hospital Association	42.3	80.6	27.81	80.0	217	174.9	40.7	22.26	38.1	
Hospitals Outside HSA										
Riverside Methodist Hospital	198.0	1.3	167.80	2.2	805	10.6	3.1	3.60	6.2	
Mt Carmel Health Center	189.6	0.7	141.28	1.4	764	5.7	1.7	1.94	3.3	
All Others						51.8	10.2	7.39	12.6	
All Hospitals						435.5	100.0	58.45	100.0	
Appleton, WI	165,528									
Hospitals Within HSA										
St Elizabeth Hospital	41.7	72.5	31.01	72.2	287	207.9	41.4	22.40	39.3	
Appleton Medical Center	36.9	65.8	35.60	59.6	158	104.0	33.3	21.20	37.2	
Kaukauna Community Hospital	2.9	92.1	1.91	91.0	40	36.9	3.6	1.74	3.0	
Hospitals Outside HSA										
Theda Clark Memorial Hospital	46.8	11.5	34.75	10.5	279	32.1	7.4	3.66	6.4	
Shawano Community Hospital	11.3	14.7	7.26	13.4	53	7.8	2.3	0.98	1.7	
All Others						53.7	12.0	7.10	12.4	
All Hospitals						442.4	100.0	57.08	100.0	

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Ashland, WI	27,562									
Hospitals Within HSA										
Memorial Medical Center Inc	17.5	74.7	10.87	74.1	101	75.4	64.9	8.05	54.0	
Hospitals Outside HSA										
St Marys Medical Center	79.0	3.0	73.10	3.3	312	9.5	11.9	2.41	16.2	
St Josephs Hospital	119.6	0.9	98.90	1.1	524	4.9	5.6	1.11	7.4	
All Others						24.3	17.5	3.36	22.5	
All Hospitals						114.1	100.0	14.93	100.0	
Beloit, WI	56,951									
Hospitals Within HSA										
Beloit Memorial Hospital Inc	32.4	85.4	19.28	85.3	147	125.5	74.2	16.44	65.1	
Hospitals Outside HSA										
University Of Wis Hospital And Clinics	67.7	3.4	73.55	4.0	503	16.9	6.1	2.93	11.6	
Saint Anthony Medical Center	49.2	2.4	37.68	3.5	216	5.2	3.2	1.31	5.2	
All Others						34.3	16.6	4.58	18.2	
All Hospitals						181.9	100.0	25.27	100.0	
Columbus, WI	11,609									
Hospitals Within HSA										
Columbus Community Hospital	8.3	58.8	5.24	59.9	53	31.2	63.0	3.14	51.3	
Hospitals Outside HSA										
University Of Wis Hospital And Clinics	67.7	1.5	73.55	1.6	503	7.5	12.9	1.15	18.8	
Meriter Hospital Inc	65.5	1.2	63.48	1.3	429	5.3	10.4	0.83	13.5	
All Others						6.0	13.7	1.01	16.4	
All Hospitals						50.0	100.0	6.12	100.0	
Eau Claire, WI	105,310									
Hospitals Within HSA										
Sacred Heart Hospital	41.9	59.6	28.11	59.6	306	182.3	47.5	16.74	39.4	
Luther Hospital	30.1	59.9	24.11	59.0	208	124.7	34.3	14.23	33.5	
Osseo Area Municipal Hospital	0.7	93.3	0.49	93.2	22	20.5	1.2	0.46	1.1	
Hospitals Outside HSA										
Abbott-Northwestern Hospital	143.2	1.2	162.13	2.1	648	7.7	3.2	3.42	8.1	
St Marys Hospital	227.3	0.7	265.16	0.9	855	6.2	3.1	2.47	5.8	
All Others						39.4	10.6	5.17	12.1	
All Hospitals						380.8	100.0	42.49	100.0	
Fond Du Lac, WI	84,518									
Hospitals Within HSA										
St Agnes Hospital	38.6	83.8	21.85	84.6	191	160.1	71.7	18.48	55.8	
Hospitals Outside HSA										
St Lukes Medical Center Inc	207.7	1.3	182.24	2.4	362	4.8	6.1	4.32	13.1	
Theda Clark Memorial Hospital	46.8	2.6	34.75	3.8	279	7.1	2.7	1.33	4.0	
All Others						56.1	19.6	8.95	27.1	
All Hospitals						228.1	100.0	33.09	100.0	

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Fort Atkinson, WI	57,842									
Hospitals Within HSA										
Fort Atkinson Memorial Hospital	23.2	89.6	14.64	89.9	95	85.1	62.6	13.17	53.8	
Hospitals Outside HSA										
St Marys Hospital Medical Center	76.2	4.2	65.95	5.6	333	13.9	9.6	3.69	15.1	
University Of Wis Hospital And Clinics	67.7	2.7	73.55	2.7	503	13.6	5.5	1.98	8.1	
All Others						42.2	22.3	5.62	23.0	
All Hospitals						154.8	100.0	24.46	100.0	
Green Bay, WI	248,264									
Hospitals Within HSA										
St Vincent Hospital	74.4	70.4	48.54	67.5	345	242.9	48.2	32.75	42.6	
Bellin Memorial Hospital	30.6	61.4	31.41	56.7	170	104.5	17.3	17.82	23.2	
St Marys Hospital Medical Center	26.0	82.9	17.21	81.6	120	99.5	19.8	14.04	18.3	
Oconto Memorial Hospital Inc	1.8	93.1	1.11	93.7	25	23.3	1.5	1.04	1.4	
Hospitals Outside HSA										
Community Memorial Hospital	4.6	35.3	3.34	34.0	24	8.5	1.5	1.13	1.5	
Bay Area Medical Center Marinette	27.9	6.0	14.13	6.2	115	6.9	1.5	0.88	1.2	
All Others						58.1	10.1	9.23	12.0	
All Hospitals						543.7	100.0	76.90	100.0	
Janesville, WI	72,515									
Hospitals Within HSA										
Mercy Hospital Of Janesville	41.8	74.3	24.74	74.3	234	173.9	76.2	18.37	63.9	
Hospitals Outside HSA										
University Of Wis Hospital And Clinics	67.7	3.0	73.55	3.7	503	15.3	5.0	2.72	9.5	
Sinai Samaritan Medical Center	56.5	1.4	61.20	3.0	180	2.5	1.9	1.84	6.4	
All Others						38.2	16.9	5.81	20.2	
All Hospitals						229.9	100.0	28.73	100.0	
Kenosha, WI	119,657									
Hospitals Within HSA										
St Catherines Hospital Inc	31.8	91.3	21.28	91.3	184	167.9	40.6	19.43	36.4	
Kenosha Hospital & Medical Center	24.7	93.0	16.67	93.5	136	126.5	32.1	15.60	29.2	
Hospitals Outside HSA										
St Lukes Medical Center Inc	207.7	1.4	182.24	2.1	362	5.0	4.0	3.82	7.2	
St Marys Medical Center	61.4	3.3	42.01	4.9	226	7.5	2.8	2.07	3.9	
All Others						93.0	20.4	12.51	23.4	
All Hospitals						399.9	100.0	53.44	100.0	
La Crosse, WI	175,351									
Hospitals Within HSA										
La Crosse Lutheran Hospital	74.4	58.8	63.97	56.7	346	203.4	46.6	36.27	50.3	
St Francis Medical Center Inc	39.8	84.1	25.13	86.5	216	181.6	35.6	21.74	30.2	
St Marys Hospital Inc	2.2	87.2	1.33	86.5	30	26.2	2.1	1.15	1.6	
Others Within HSA	0.3	95.2	0.23	95.3	10	9.5	0.3	0.21	0.3	
Hospitals Outside HSA										
St Marys Hospital	227.3	1.2	265.16	1.2	855	10.2	2.9	3.25	4.5	
Rochester Methodist Hospital	75.4	1.5	80.70	1.5	349	5.1	1.2	1.22	1.7	
All Others						76.2	11.4	8.26	11.5	
All Hospitals						512.2	100.0	72.10	100.0	

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Madison, WI	360,310									
Hospitals Within HSA										
Meriter Hospital Inc	65.5	71.4	63.48	66.0	429	306.2	36.0	41.92	37.8	
St Marys Hospital Medical Center	76.2	66.3	65.95	59.5	333	220.7	38.9	39.23	35.4	
University Of Wis Hospital And Clinics	67.7	30.3	73.55	28.0	503	152.3	15.8	20.62	18.6	
Hospitals Outside HSA										
Sauk Prairie Memorial Hospital	8.2	16.9	6.73	17.8	36	6.1	1.1	1.19	1.1	
All Others						59.8	8.2	7.82	7.1	
All Hospitals						745.1	100.0	110.78	100.0	
Manitowoc, WI	49,792									
Hospitals Within HSA										
Holy Family Memorial Medical Center	39.4	81.0	23.89	81.5	214	173.4	79.9	19.47	70.8	
Hospitals Outside HSA										
Bellin Memorial Hospital	30.6	4.5	31.41	6.0	170	7.6	3.4	1.87	6.8	
St Lukes Medical Center Inc	207.7	0.3	182.24	0.5	362	1.1	1.6	0.86	3.1	
All Others						39.3	15.2	5.28	19.3	
All Hospitals						221.4	100.0	27.49	100.0	
Marinette, WI	49,674									
Hospitals Within HSA										
Bay Area Medical Center Marinette	27.9	87.0	14.13	86.7	115	100.1	67.0	12.24	52.5	
Hospitals Outside HSA										
Bellin Memorial Hospital	30.6	10.8	31.41	12.4	170	18.4	9.1	3.89	16.7	
St Vincent Hospital	74.4	5.4	48.54	5.6	345	18.5	11.0	2.74	11.8	
All Others						23.2	12.9	4.43	19.0	
All Hospitals						160.2	100.0	23.31	100.0	
Marshfield, WI	82,320									
Hospitals Within HSA										
St Josephs Hospital	119.6	38.5	98.90	34.8	524	201.7	84.2	34.39	85.2	
Hospitals Outside HSA										
Wausau Hospitals Center	60.2	3.6	48.01	3.4	269	9.6	3.9	1.63	4.0	
Memorial Hospital Inc	6.5	31.8	3.03	33.4	40	12.7	3.8	1.01	2.5	
All Others						42.5	8.2	3.35	8.3	
All Hospitals						266.5	100.0	40.38	100.0	
Menomonee Falls, WI	64,518									
Hospitals Within HSA										
Community Memorial Hospital	37.5	51.7	25.54	51.8	153	79.2	61.1	13.24	55.6	
Hospitals Outside HSA										
St Josephs Hospital	139.1	2.6	90.84	4.3	518	13.6	11.5	3.94	16.6	
St Lukes Medical Center Inc	207.7	0.4	182.24	0.5	362	1.4	2.5	0.85	3.6	
All Others						43.7	24.9	5.80	24.4	
All Hospitals						137.9	100.0	23.83	100.0	

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Milwaukee, WI	886,823									
Hospitals Within HSA										
St Lukes Medical Center Inc	207.7	65.0	182.24	55.7	362	235.3	20.6	101.50	22.2	
St Josephs Hospital	139.1	83.2	90.84	78.7	518	430.9	17.6	71.50	15.7	
Columbia Hospital Inc	90.7	81.8	64.54	80.0	339	277.3	11.3	51.61	11.3	
Sinai Samaritan Medical Center	56.5	82.0	61.20	73.0	180	147.6	7.1	44.65	9.8	
St Michael Hospital Of Milwaukee	57.7	92.0	36.59	91.1	168	154.6	8.1	33.32	7.3	
St Francis Hospital Inc	67.0	82.3	40.55	79.4	279	229.5	8.4	32.18	7.1	
St Mary'S Hospital Of Milwaukee	61.5	62.8	51.88	53.2	331	207.8	5.9	27.57	6.0	
John L Doyne Hospital	36.7	60.0	37.62	55.1	347	208.1	3.4	20.74	4.5	
Froedtert Memorial Lutheran Hospital	29.4	49.1	28.95	44.6	234	114.9	2.2	12.90	2.8	
Others Within HSA	15.7	65.9	8.53	66.3	220	158.5	1.6	5.66	1.2	
Hospitals Outside HSA										
West Allis Memorial Hospital	71.2	51.8	36.42	51.8	236	122.1	5.6	18.86	4.1	
Trinity Memorial Hospital	41.6	31.8	23.71	30.2	178	56.6	2.0	7.15	1.6	
All Others						232.3	6.4	28.93	6.3	
All Hospitals						2,575.5	100.0	456.56	100.0	
Monroe, WI	37,602									
Hospitals Within HSA										
St Clare Hospital Of Monroe Wi Inc	26.5	66.8	17.58	65.5	139	92.8	70.5	11.51	60.7	
Hospitals Outside HSA										
Meriter Hospital Inc	65.5	2.3	63.48	3.4	429	9.7	5.9	2.17	11.5	
University Of Wis Hospital And Clinics	67.7	3.0	73.55	2.9	503	15.2	8.2	2.13	11.3	
All Others						22.3	15.4	3.14	16.6	
All Hospitals						140.0	100.0	18.95	100.0	
Neenah, WI	58,629									
Hospitals Within HSA										
Theda Clark Memorial Hospital	46.8	51.5	34.75	46.7	279	143.8	78.0	16.21	74.6	
Hospitals Outside HSA										
St Elizabeth Hospital	41.7	6.5	31.01	7.2	287	18.8	8.8	2.23	10.3	
Appleton Medical Center	36.9	2.7	35.60	2.7	158	4.3	3.3	0.96	4.4	
All Others						16.1	9.9	2.34	10.7	
All Hospitals						183.0	100.0	21.74	100.0	
Oshkosh, WI	79,878									
Hospitals Within HSA										
Mercy Medical Center Of Oshkosh Inc	52.7	85.9	31.31	85.9	236	202.7	85.8	26.90	80.7	
Hospitals Outside HSA										
Theda Clark Memorial Hospital	46.8	6.2	34.75	7.0	279	17.3	5.5	2.43	7.3	
University Of Wis Hospital And Clinics	67.7	0.6	73.55	0.7	503	2.8	0.7	0.53	1.6	
All Others						22.8	8.0	3.48	10.5	
All Hospitals						245.6	100.0	33.33	100.0	

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Racine, WI	145,112									
Hospitals Within HSA										
St Marys Medical Center	61.4	92.4	42.01	90.5	226	208.7	68.4	38.02	66.5	
St Lukes Hospital	14.1	81.7	9.14	75.7	223	182.2	13.9	6.91	12.1	
Hospitals Outside HSA										
St Lukes Medical Center Inc	207.7	0.9	182.24	1.0	362	3.3	2.3	1.87	3.3	
Froedtert Memorial Lutheran Hospital	29.4	4.2	28.95	4.2	234	9.8	1.5	1.23	2.2	
All Others						63.0	14.0	9.14	16.0	
All Hospitals						467.0	100.0	57.16	100.0	
Ripon, WI	10,694									
Hospitals Within HSA										
Ripon Medical Center	5.2	59.0	3.84	57.4	29	17.1	51.1	2.20	49.9	
Hospitals Outside HSA										
Theda Clark Memorial Hospital	46.8	2.2	34.75	2.2	279	6.2	17.2	0.78	17.6	
Mercy Medical Center Of Oshkosh Inc	52.7	1.1	31.31	0.9	236	2.5	9.2	0.29	6.5	
All Others						7.5	22.5	1.15	26.0	
All Hospitals						33.3	100.0	4.42	100.0	
Sheboygan, WI	96,670									
Hospitals Within HSA										
St Nicholas Hospital	21.2	88.7	14.09	86.9	185	164.1	37.7	12.25	32.4	
Sheboygan Memorial Medical Center	16.6	91.1	11.70	90.7	138	125.8	30.4	10.61	28.1	
Hospitals Outside HSA										
St Lukes Medical Center Inc	207.7	3.5	182.24	4.3	362	12.5	14.4	7.76	20.5	
Froedtert Memorial Lutheran Hospital	29.4	3.6	28.95	3.3	234	8.5	2.1	0.96	2.6	
All Others						50.9	15.4	6.22	16.5	
All Hospitals						361.8	100.0	37.80	100.0	
Stevens Point, WI	65,262									
Hospitals Within HSA										
St Michaels Hospital	20.8	84.4	14.91	83.4	133	112.2	58.6	12.43	53.1	
Hospitals Outside HSA										
St Josephs Hospital	119.6	5.5	98.90	6.0	524	28.6	21.8	5.92	25.3	
Wausau Hospitals Center	60.2	1.9	48.01	2.8	269	5.2	3.9	1.34	5.7	
All Others						30.1	15.7	3.74	15.9	
All Hospitals						176.1	100.0	23.43	100.0	
Watertown, WI	25,240									
Hospitals Within HSA										
Watertown Memorial Hospital	10.8	81.5	7.25	80.6	88	71.7	63.3	5.84	54.3	
Hospitals Outside HSA										
St Marys Hospital Medical Center	76.2	1.3	65.95	1.7	333	4.3	7.2	1.14	10.6	
St Lukes Medical Center Inc	207.7	0.4	182.24	0.5	362	1.3	5.6	0.94	8.8	
All Others						19.8	24.0	2.84	26.4	
All Hospitals						97.1	100.0	10.76	100.0	

	1992-3 MPDs (1,000s) (3)	% of HOSP's MPDs from HSA (4)	1992-3 MRS (\$ in millions) (5)	% of HOSP's MRS from HSA (6)	Staffed Beds (7)	Allocation of HSA Beds by HOSP (8)	% of HSA's MPDs by HOSP (9)	HSA MRS by HOSP (\$ in Millions) (10)	% of HSA's MRS by HOSP (11)	
Waukesha, WI	172,054									
Hospitals Within HSA										
Waukesha Memorial Hospital Inc	65.5	74.5	44.42	73.0	317	236.2	63.5	32.44	59.2	
Hospitals Outside HSA										
St Lukes Medical Center Inc	207.7	2.3	182.24	2.8	362	8.2	6.2	5.07	9.3	
St Josephs Hospital	139.1	2.2	90.84	2.6	518	11.2	3.9	2.34	4.3	
All Others						115.8	26.5	14.94	27.3	
All Hospitals						371.4	100.0	54.80	100.0	
Wausau, WI	95,490									
Hospitals Within HSA										
Wausau Hospitals Center	60.2	64.4	48.01	59.3	269	173.2	79.7	28.47	78.3	
Hospitals Outside HSA										
St Josephs Hospital	119.6	4.7	98.90	4.4	524	24.8	11.6	4.36	12.0	
St Michaels Hospital	20.8	2.4	14.91	2.6	133	3.2	1.0	0.39	1.1	
All Others						20.8	7.7	3.13	8.6	
All Hospitals						222.0	100.0	36.35	100.0	
West Bend, WI	50,585									
Hospitals Within HSA										
St Josephs Community Hosp Of West Bend	21.6	79.4	13.73	80.7	121	96.1	59.5	11.07	50.1	
Hospitals Outside HSA										
St Lukes Medical Center Inc	207.7	0.8	182.24	1.3	362	2.7	5.4	2.33	10.5	
Community Memorial Hospital	37.5	7.6	25.54	6.8	153	11.6	9.9	1.75	7.9	
All Others						41.0	25.1	6.96	31.5	
All Hospitals						151.4	100.0	22.11	100.0	
Woodruff, WI	17,526									
Hospitals Within HSA										
Howard Young Medical Center	19.8	59.1	14.04	56.4	88	52.0	64.9	7.93	55.9	
Hospitals Outside HSA										
St Josephs Hospital	119.6	1.8	98.90	2.3	524	9.4	11.9	2.23	15.8	
Wausau Hospitals Center	60.2	1.5	48.01	2.4	269	4.0	5.0	1.15	8.1	
All Others						19.2	18.2	2.87	20.2	
All Hospitals						84.6	100.0	14.17	100.0	

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