Comparative Health System Performance Initiative: Compendium of U.S. Health Systems, 2016, Technical Documentation

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Prepared by:

Mathematica Policy Research, Washington, DC
Kirsten Barrett
Ken Peckham
David Jones
Rachel Machta
Jessica Heeringa
Eugene Rich
Laura Kimmey

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I. Introduction

In 2015, the Agency for Healthcare Research and Quality (AHRQ) created the Comparative Health System Performance (CHSP) Initiative to study how health care systems promote evidence-based practices in delivering care.[i] AHRQ's goal is to understand the factors that affect health systems' use of patient-centered outcomes research (PCOR) and to identify best practices in disseminating and using PCOR.

To achieve AHRQ's goals, the initiative establishes three Centers of Excellence (CoEs) as well as a Coordinating Center to identify, classify, track, and compare health systems. AHRQ established CoEs at Dartmouth College, the National Bureau of Economic Research (NBER), and the RAND Corporation. Mathematica Policy Research serves as the initiative's Coordinating Center, working collaboratively with AHRQ and the CoEs to facilitate synthesis of findings on comparative health system performance, build a compendium of U.S. health systems, and support dissemination of the CHSP Initiative findings broadly.

A key first step of the initiative is to identify and enumerate health systems. To achieve this objective, AHRQ has developed an initial list of U.S. health systems. This list consolidates information from several data sources, indicating system ownership and provider affiliations with systems and highlighting key system attributes. This consolidated list, referred to as the "list," is intended to be an initial resource for researchers, policymakers, and other stakeholders who want to identify and describe systems with the ultimate goal of understanding how health systems can improve the cost and quality of health care.

The list forms the basis of the Compendium of U.S. Health Systems, which resides on AHRQ's website (https://www.ahrq.gov/chsp/index.html) and will be updated during the course of the initiative with additional resources to support research on health systems.

This document summarizes the approach taken to create the list. In section II, we describe the Compendium's working definition of a health system and the three key data sources that contributed to the development of the list:

1. QuintilesIMS Healthcare Organization Services (OneKey Organizations [HCOS])[ii],
2. SK&A Healthcare Databases, and
3. American Hospital Association (AHA) Annual Survey Database.

In section III, we present the methodology used to create and refine the list. In section IV, we describe the variables used to identify system attributes. Finally, in section V, we present caveats and limitations of the methodology used to construct the list.

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[i] Additional information on the CHSP Initiative can be found at: https://www.ahrq.gov/chsp/index.html.

[ii] QuintilesIMS maintains two integrated databases relevant to the study of health system performance under the umbrella of Healthcare Relational Services (HCRS): OneKey Organizations, formerly known as HCOS, and OneKey Professionals, formerly known as HCPS. Throughout the document, we refer to OneKey Organizations as HCOS with the exception of Appendix A, in which we use the full names of both OneKey databases because we describe how they are related to each other.

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II. Health System Definition and Data Sources

A. Working Definition of a Health System

The initial phase of developing the list aimed to operationally define "health system" within the context of the CHSP Initiative. Recognizing the importance of this question, the Coordinating Center convened a working group composed of members of the CoEs, Coordinating Center, and AHRQ. The working group held a series of meetings in the summer of 2016 and engaged the CHSP Technical Expert Panel (TEP) to formulate and refine a working definition of a health system. The proposed working definition for the Compendium is:

> *A health system includes at least one hospital and at least one group of physicians that provides comprehensive care (including primary and specialty care) who are connected with each other and with the hospital through common ownership or joint management.*[iii]

For the purposes of the list, the goal was to start with a simple and relatively unambiguous, albeit narrow, working definition of a health system that can be operationalized with available data. This approach allows the timely release of a list that is relatively current and describes organized health systems in the United States of a type important to stakeholders in many communities.

We recognize this definition has limitations, especially the "at least one hospital" requirement. This requirement excludes some well-established provider organizations that provide comprehensive management of their patient populations without an ownership or tight comanagement relationship with a hospital.

The expectation is that the identification and enumeration of health systems will evolve over time as research and new data sources reveal possible alternative definitions and methods to operationalize them. Therefore, the Compendium's working definition and the list of health systems informed by it will evolve as research clarifies the diverse formal relationships between and among health care providers. In addition, the CHSP Initiative includes a robust set of research activities that draw on several other definitions of health systems. For more information about these definitions, see: https://www.ahrq.gov/chsp/chsp-reports/resources-for-understanding-health-systems/defining-health-systems.html.

B. Data Sources

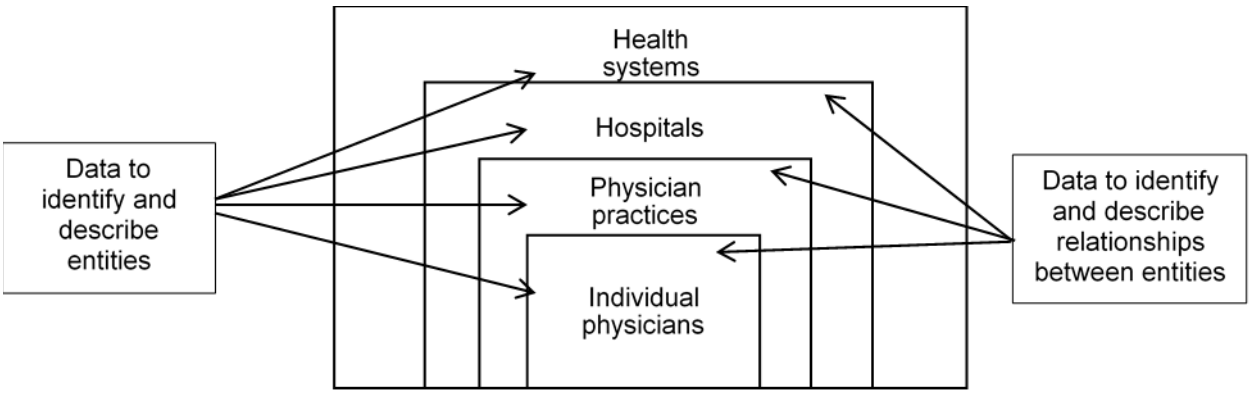
Multiple data sources are needed to identify health systems, characterize providers and affiliated organizations, and describe organizational and professional relationships (Figure II.1). Moreover, there are a host of data sources available to study health system components and their attributes, such as the American Medical Association Masterfile and Medicare Data on Provider Practice

[iii] Foundation models of health system organization are considered a form of joint management. Joint participation in an accountable care organization (ACO) is not by itself indicative of joint management. In addition, "group" is not synonymous with a separately organized medical group. A hospital that employs community-based physicians who provide comprehensive care (but were not organized as a medical group) would be considered a health system.

and Specialty (MD-PPAS).[iv] However, only a handful of sources explicitly identify systems or indicate relationships among organizations that can be used to identify which groups of organizations constitute a system. These data sources include:

- QuintilesIMS HCOS database
- SK&A Healthcare Databases
- AHA Annual Survey Database (AHA)
- Provider Enrollment, Chain, and Ownership System (PECOS)
- Internal Revenue Service (IRS) 990 forms

Figure II.1. Data needs to study health systems



Source: Cohen GR, Jones DJ, Heeringa K, et al. Leveraging diverse data sources to identify and describe U.S. healthcare delivery systems. Unpublished manuscript, June 15, 2017.

Table II.1 provides a brief description of each data source, including the name of the data holder, intended use of the data, extent of health system identifiers and components within the data file, and availability of the data.

Table II.1. Potential data sources for health system identification

Source	Data Holder	Intended Purpose	Types of Systems Identified	System Components	Availability
HCOS	QuintilesIMS	Reference database for sales and marketing purposes	Integrated healthcare delivery networks (IDNs)	Physicians, medical groups, and hospitals	Available for purchase

[iv] MD-PPAS is a provider-level dataset that assigns Medicare providers to medical practices based on tax identification numbers (TINs). It contains provider National Provider Identifiers and offers information on provider specialty beyond the Centers for Medicare & Medicaid Services (CMS) provider specialty classification. Research identifiable files are available for the time period 2008–2015. These files are accessible at https://www.resdac.org/cms-data/files/md-ppas.

Source	Data Holder	Intended Purpose	Types of Systems Identified	System Components	Availability
SK&A Healthcare Databases	QuintilesIMS	Reference database for sales and marketing purposes	Integrated health systems	Physicians, medical groups, and hospitals	Available for purchase
AHA Annual Survey Database	AHA	Hospital database for health services research and trend analyses	Common ownership among providers and organizations	Hospitals	Available for purchase
Medicare PECOS	Centers for Medicare & Medicaid Services (CMS)	Enrollment database enumerating Medicare program participation	Vertical integration among associated organizations	Chain home office and owner/ manager reported for providers/ hospitals	Public for a limited version; through data use agreement for the full version
IRS 990 and Schedule R	IRS	Financial database for the purpose of tax reporting	Vertical integration among associated organizations	Related organizations under not-for-profit systems	Publicly available

Source: Cohen GR, Jones DJ, Heeringa J, et al. Leveraging diverse data sources to identify and describe U.S. healthcare delivery systems. *eGEMs*, vol. 5, no. 3, December 2017.

When examining a data source, we sought to determine if it (1) contained health system identifiers; (2) included information on hospitals, medical groups, and physicians; and (3) was nationally representative and current. We opted to use HCOS, SK&A, and AHA data to inform the development of the list. All three data sources allow the identification of health systems and hospitals and are nationally representative. Two of the three, HCOS and SK&A, enable the identification of physicians and medical groups.

PECOS and IRS 990 data are timely and publicly available, and they contain information reported directly to the Federal Government. These data sources represent promising options for constructing a detailed list of health systems and the providers that make up those systems from information submitted by individual providers and provider organizations themselves. However, initial work by the CHSP team highlights challenges yet to be fully resolved when using these data sources to identify health systems that meet the working definition. For example, IRS 990 data are only applicable to provider organizations owned by not-for-profit organizations. PECOS data submission requirements apply primarily to Medicare providers; furthermore, the submission requirements do not ensure that ownership linkages between individual clinicians and hospitals are reported in a complete and consistent manner. In addition, medical groups may be represented using a variety of approaches in PECOS, with some medical groups represented by a single tax identification number (TIN) but other groups clustering their physicians across multiple different TINs. Thus, for developing this initial list, we opted to not use IRS 990 or

PECOS data. However, AHRQ, the CoEs, and the Coordinating Center continue to explore these and other approaches to enumerating health systems and the providers that are part of these systems.

HCOS and SK&A maintain frequently updated databases that contain information on health systems, physicians, and hospitals nationwide. HCOS contains system- and facility-level data on staffing, beds, and facility type. Data are collected through a combination of telephone surveys and administrative sources and describe relationships between providers and hospitals and group practices, as well as among facilities, via purchasing and contracting mechanisms. SK&A contains provider-, facility-, and system-level data on professional training and specialty, location, ownership, and affiliations. AHA data are based on an annual survey of hospitals in the United States. The AHA Annual Survey Database provides facility-level data about organizational structure, services, staffing, expenses, system affiliations, and physician arrangements.

Appendix A contains a brief overview of the data collection methods for HCOS, SK&A, and AHA. Information about how the Compendium's working definition of health system aligns with that of HCOS, SK&A, and AHA is contained in Table II.2.

Table II.2. Comparison of the Compendium's working health system definition with HCOS, SK&A, and AHA

	CHSP	HCOS	SK&A	AHA
Unit of study	Health systems	Integrated delivery networks (IDNs) identified in the data	Integrated health systems identified in the data	Hospital systems
Health system definition	A health system includes at least one hospital and at least one group of physicians that provides comprehensive care (including primary and specialty care) who are connected with each other and with the hospital through common ownership or joint management.	An organization that has direct responsibility for centralizing the purchasing or contracting of its affiliated hospitals and ancillary care facilities; it also offers a continuum of care through services at acute and nonacute sites. An IDN owns, leases, manages, or establishes a purchasing affiliation with two or more health care delivery sites. IDNs include at least one acute care hospital and one nonacute organization.	Health care organizations can own or manage a complex delivery network of health care providers, including hospitals, medical offices, group practices, and nursing homes	Either a multihospital or a diversified single hospital system. A multihospital system is two or more hospitals owned, leased, sponsored, or contract managed by a central organization.[v]

[v] AHA. Fast Facts on US Hospitals. http://www.aha.org/research/rc/stat-studies/fast-facts.shtml. Accessed August 22, 2017.

	CHSP	HCOS	SK&A	AHA
Required provider types	At least one hospital and one group of physicians	At least one hospital and one nonacute care provider	A range of provider types that are jointly owned or managed, including hospitals, medical offices, group practices, and nursing homes	Multihospital or a diversified single hospital
Relationship among entities in system	System owns or manages included providers.	System owns, manages, leases, or establishes purchasing (contracting) affiliations with entities.	System owns or manages included providers.	System owns, leases, religiously sponsors and/or manages health providers.

Each data source's definition of "health system" has similarities with the Compendium's working definition of health systems. At a high level, they include systems that integrate multiple providers, including hospitals and physicians. All three data sources emphasize inclusion of hospitals, but other included provider types vary. Similarly, they all focus on system ownership or management of included providers. Also, HCOS and AHA include purchasing or contracting affiliations. To the extent that the definitions of systems in the data sources differ from the Compendium's working definition of health systems, the consolidated list will also reflect systems that do not quite align with the concept of systems included in the working definition. We describe steps taken to further align the systems in the list with the working definition in subsequent sections.

Table II.3 presents the time periods reflected in the data and the number of systems included in the data sources before any matching or combining of systems across data sources and exclusions of systems that do not meet the Compendium's working definition.

Table II.3. Number of systems contained in each data source

	HCOS	SK&A	AHA
Year of data used	2016	2016	2015
Number of systems identified	974	797	429

Note: We incorporated the most current years of data available from the sources at the beginning of the effort to develop the list.

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III. Methodology

Due to differences in data collection methodologies, the data sources offer differing counts of health systems, as shown in Table II.3. The variation is due to differences in the underlying definition of health system in each data source, differences in the way that each data source treats subsidiary health systems (standalone vs. nested under a parent health system), and differences in data collection methods.

In this section, we provide a detailed description of the approach we took to combine the three data sources to develop a consolidated list of health systems that meet the Compendium's working definition of systems:

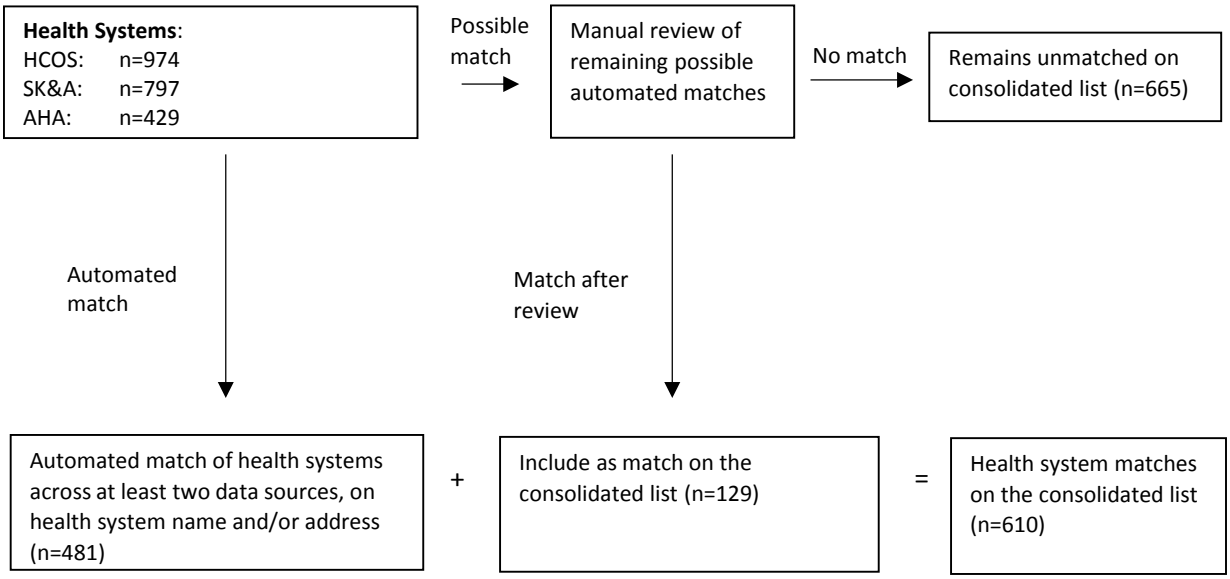
1. We begin by summarizing the automated and manual techniques we applied to identify and match systems across data sources and create a set of unique systems that are candidates for the final list (Step 1).
2. We describe how we identified nested health systems—that is, parent health systems that have one or more subsystems. We also explain how we aggregated physician and hospital counts within parent health systems (Step 2).
3. We then summarize the exclusion criteria we applied to further refine the list to include only health systems that meet the working definition (Step 3).
4. We close the section with a description of the final manual review and editing of the list (Step 4).

A. Step 1: Matching and Linking Health Systems Across Data Sources

In this section, we describe the approach used to match systems across the three data sources to form a deduplicated list of unique health systems. We first describe the matching techniques used to identify health systems that matched across at least two data sources (automated matching) and the results from that process. Then, we describe the approach we used to identify possible additional matches that required further review (manual matching) and the results from that process.

We attempted all possible combination of matches: (1) HCOS to SK&A, (2) HCOS to AHA, (3) SK&A to HCOS, (4) SK&A to AHA, (5) AHA to HCOS, and (6) AHA to SK&A. Figure III.1 provides a high-level depiction of the matching process.

Figure III.1. Automated and manual matching process



1. Automated matching process

We compared names of health systems to identify systems that matched across at least two of the data sources. We first processed the names by:

- Removing all punctuation,
- Converting all text to uppercase,
- Removing "the," "and," and "of" from health system names,
- Removing "inc," "corp," "corporation," and "company" from health system names, and
- Normalizing common terms (that is, system = systems, health care = healthcare).

We then identified potential matches in an automated fashion using a combination of name and address matching, via character-string matching and distance-based matching using geocoding, respectively.

We used the SAS COMPGED function to compare the similarity of health system names across data sources. SAS COMPGED generates a score that reflects the number of deletions, insertions, or replacements needed to make two strings match—the lower the score, the better the match. If a string matches exactly, the SAS COMPGED score is zero. Inserting one character to derive a match results in a score of 100. Adding a punctuation character results in a score of 30.

We aggregated the scores for the different deletions, insertions, and replacements needed for health system names or addresses to match to yield a total score. For example, if a health system required the addition of one character to match, the SAS COMPGED score associated with the match would be 100. We considered only those matches between data sources that yielded a SAS COMPGED score of ≤150, reflecting an extremely close match.

We also used geocoding to determine the linear distance between health system addresses based on the geocoded latitude and longitude of the street addresses of the health systems. When geocoding based on street address was not feasible, as is the case with post office boxes, we geocoded to the next lowest available level of geography (that is, ZIP Code or city).

If the SAS COMPGED score was ≤150 and the geocoded addresses were within 1 mile of each other, the health systems were considered an exact match. Of those remaining, if the linear distance between health systems' street addresses was less than one-half of a mile, the health systems were considered an exact match, regardless of name. Automated matching resulted in 481 health system matches (see Appendix B). Table III.1 contains the distribution of the 481 health system matches across the three data sources.

Table III.1. Automated match results

Data Source	
HCOS, SK&A, AHA	236
HCOS, SK&A	191
HCOS, AHA	29
SK&A, AHA	25
Total matched	**481**

2. Manual review of possible matches based on name and location

We used the SAS COMPGED scores and distances between systems to identify additional possible matches for manual review. We manually reviewed health systems with the following characteristics:

- Possible matched systems with a SAS COMPGED score ≤150 but greater than 1 mile apart
- Possible matched systems with a SAS COMPGED score ≤150 on truncated names (to increase the likelihood of a match based on the beginning portion of the name)
- Possible matched systems within 10 miles of each other
- Possible matched systems in the same ZIP Code area or the same city

Manual review included comparison of the full system name and all address information associated with a health system (that is, street and mailing addresses). As part of the manual review, we conducted web searches to assist in identifying matches. When searching, we looked not only for name and address information but also for information about the health system's various locations, the breadth of the health system's services, and evidence of mergers or acquisitions.

The most useful approach to access this information was to select the "About" or "History" link on the health system's website. Historical information about systems and relationships between systems helped us understand discrepancies in the data—for example, 2015 AHA data would not have reflected health systems that merged in 2016, which we would learn about via web searching.

Table III.2 contains examples of manual matching using HCOS–AHA data. Ascension Health has a SAS COMPGED score of 0 across the two data sources, meaning that names matched exactly. However, it failed the automated match because the distance between the address listings of the two identically named systems is greater than 1 mile.

In the case of HCA, a SAS COMPGED score of 500 was generated. The addresses for HCA, in the two data sources, HCOS and AHA, were 1.7 miles apart. Based on the close proximity and the fact that HCA is an acronym for Hospital Corporation of America, a match was made.

In the third case, Broward Health, a SAS COMPGED score of 500 was also generated. North Broward Hospital District and Broward Health were in close proximity (6.1 miles) but not clearly a match based solely on name. Thus, we conducted a web search for North Broward Hospital District and found that it is "doing business as" Broward Health, resulting in another match.

Table III.2. Examples of manually matched health systems

HCOS Health System Name	AHA Health System Name	Distance	SAS COMPGED Score
Ascension Health	Ascension Health	6.2	0
Hospital Corporation of America, Inc.	HCA	1.7	500
North Broward Hospital District	Broward Health	6.1	500

The manual review of the possible health system matches identified through the automated process yielded an additional 129 confirmed matches (Table III.3).

Table III.3. Results of automated matching with manual review

Data Source	Number of Health Systems
HCOS, SK&A, AHA	79
HCOS, SK&A	36
HCOS, AHA	7
SK&A, AHA	7
Total matched	**129**

Summary of final automated matches. We identified 610 health system matches, 481 through automated means and 129 through automated means with manual review. After this phase of matching, 665 unmatched health systems remained (Table III.4).

Table III.4. Summary of matching results

Number of health systems matched

Data	N
HCOS, SK&A, AHA	315
HCOS, SK&A	227
HCOS, AHA	36
SK&A, AHA	32
Total matched	**610**

Number of health systems unmatched

Data	N
HCOS only	396
SK&A only	223
AHA only	46
Total unmatched	**665**
Total health systems	**1,275**

B. Step 2: Identifying Nested Relationships and Aggregating Counts

As we developed the list, we were aware that some medium and large health systems have smaller, geographically defined health systems nested within them. In developing the list, we referred to the nested health systems as subsystems within parent systems. We identified possible nested relationships using two approaches:

1. Parent systems and subsystems identified explicitly in the SK&A data[vi] and
2. Possible additional nested relationships identified through automated health system-to-hospital and hospital-to-hospital matching across data sources, with subsequent manual review.

We list the subsystems identified and their parent systems in Appendix C.

1. Identifying SK&A health systems nested within parent health systems

Within the SK&A data file, some health systems with a limited geographic catchment area, typically local or regional, are flagged as being contained within a larger, typically national or regional, parent health system. In some cases, there are multiple nested relationships whereby a parent of one subsystem may, itself, be a subsystem of another parent system. When this occurred, we defined the health system highest on the hierarchy as the parent system and the health systems within the parent system as subsystems.

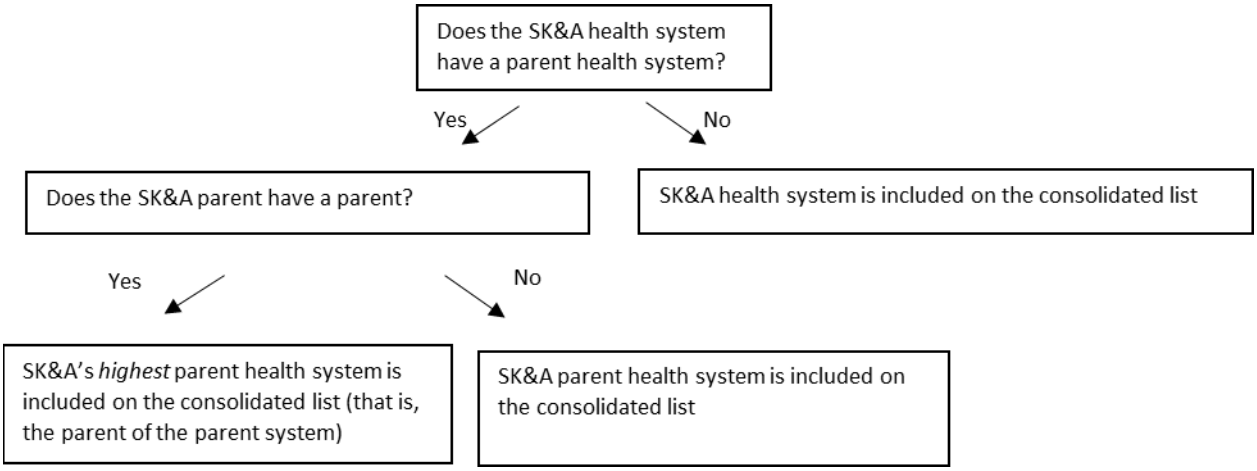
For example, in SK&A, the following subsystems are nested within Bon Secours Health System:

- Bon Secours Richmond Health System,
- Bon Secours Baltimore Health,
- Bon Secours Kentucky Health System,
- Bon Secours Hampton Roads Health System, and
- Bon Secours Saint Francis Health System.

[vi] This approach was limited to SK&A because it was the only data source that explicitly identified parent health systems and subsystems.

Bon Secours Health System is included on the list but its subsystems are not. Figure III.2 illustrates this type of nested relationship. The list contains 37 SK&A parent health systems with 134 subsystems that were removed from the list.

Figure III.2. Identifying SK&A systems with parent systems



2. Identifying possible additional nested relationships for manual review

Health system-to-hospital matching. After identifying parent health systems and subsystems in the SK&A data, we identified additional potential nested relationships by performing name matching between unmatched health systems in one source and all hospitals in the other two sources using the SAS COMPGED function. The theory is that one data source might identify a health system that meets the Compendium's working definition of a health system, while another might identify it as an entity within a second health system. This process identifies such a system as a potential subsystem and the second system as a potential parent system. In addition, this process helps identify potential additional true matches; that is, systems that are in fact the same system across data sources (discussed above in Step 1).[vii]

After completing the unmatched health system to hospital matching, we manually reviewed each of the matches to identify possible parent-subsystem relationships. Manual review included visual review of the system and hospital names and locations, web searching, and discussions with colleagues, including AHRQ. The following is a step-by-step example of the review process:

1. An unmatched SK&A health system, Jones Medical, matches AHA and HCOS hospitals named Jones Medical.
2. In all three data sources, Jones Medical is located in the same city.
3. Within AHA and HCOS, Jones Medical is contained within Jones Healthcare System.
4. A web search confirms that Jones Medical is part of Jones Healthcare System,

[vii] Through this process, we identified a handful of system-level joint ventures in which two or more systems joined to form a new system, while still operating the original systems involved in the joint venture. In these cases, we treated the new system as well as the original systems as unique systems.

5. Jones Medical is considered a subsystem under a parent system, Jones Healthcare System. The latter would be retained in the list, as a parent system, while the former would not.

Through manual review of health system-to-hospital matches, we identified an additional 23 parent systems with 72 subsystems.

Hospital to hospital matching. We also matched hospitals across data sources, using CMS Certification Number (CCN) for HCOS to AHA and AHA identification number (AHA ID) for SK&A to AHA. The purpose of this match was to identify health systems with previously unidentified relationships, including subsystem to parent system relationships. This step was particularly useful in identifying health systems that merged or were acquired by another health system. For example, in a few cases, a hospital name matched across two data sources, but the health system name for the two hospitals differed. Through web searching, we determined that one system acquired the other or the two health systems merged. In these cases, we updated the names to reflect the correct updated health system name.

In total, across the two methods for identifying nested relationships, we identified 60 parents with 206 subsystems (Appendix C).

3. Aggregating physician and hospital counts within health systems

Once the automated matching and identification of nested relationships were complete, we aggregated the components of parent systems (physicians, medical groups, and hospitals) to obtain the total system-level counts before applying exclusion criteria (discussed below in Step 3). First, we assigned hospitals to health systems at the highest level (for example, hospitals of subsystems were assigned to its parent system). We then aggregated physicians, medical groups, and hospitals to the highest health system level. For example, we summed the total count of physicians across all hospitals in the health system and applied the count to the health system as the total number of physicians in the health system.

Assigning hospitals to health systems. To assign hospitals to health systems, we applied the following rules:

1. First, we deduplicated hospitals across sources based on hospital name and location. This task was needed because not all hospitals in the AHA, HCOS, and SK&A data had CCNs or AHA IDs. We also removed hospitals that did not report a CCN or AHA ID and did not match another hospital based on name or location.
2. Hospitals reported as being affiliated with only one health system were assigned to that health system. Of the 6,762 unique hospitals with a CCN or AHA ID reported in the three data sources, 5,112 were contained in one health system only, and 398 were contained in two or more health systems. The remaining 1,252 were not affiliated with any health system.
3. We manually reviewed hospitals that were identified as being in more than one health system due to either discrepancies across data sources or multiple systems listed in a single data source to determine the system to which the hospital belonged. In most cases, the multiple systems were in fact the same system with a different name or systems that

were nested within each other (that is, subsystems and parent systems). In the former case, we updated the list to indicate that these systems were a match, and the hospital belonged to this system; in the latter case, we assigned the hospital to the parent system.

The remaining cases were hospital-level joint ventures, in which multiple systems have a formal relationship with a hospital(s). In these cases, we assigned the hospitals using the following decision rules (in order):

- When it is clear based on a manual review of systems' and hospitals' websites that one system is the majority owner or taking responsibility for running the day-to-day operations of the hospital, we assign the hospital to this system,
- We assign the system based on investor-owned status; that is, if the hospital is investor-owned as reported in the Healthcare Cost Report Information System (HCRIS) data[viii], and only one of the systems is investor-owned, we assign the hospital to the investor-owned system, and
- In the absence of other information, we assign the hospital to the system whose headquarters location is close to the location of the hospital; that is, we aim to assign local system over regional or national systems.

Aggregating hospital and physician counts within health systems. The next step after assigning hospitals to health systems was to create the aggregate counts needed to apply the exclusion criteria. This step included an aggregate count of non-Federal general acute care hospitals, all physicians, and primary care physicians. In cases of parent-subsystem relationships, we ensured that the counts for the parents reflected the total counts for the entire system, including the counts of the subsystems that compose the parent system. Table III.5 summarizes the data sources used to generate the aggregate counts.

Counts of the number of physicians affiliated with health systems varied substantially across the data sources. The variation represents several differences in the physicians included in the counts from the data sources. The highest counts were typically found in HCOS, which is in part because HCOS attempts to enumerate both hospital-based physicians and those working in office-based practices. In addition, we limited the HCOS counts to physicians that had close affiliations with facilities in the system based on conversations with QuintilesIMS staff. These close affiliations are identified as attending for hospitals; staff and treating for long-term care facilities; and all affiliations for other facility types. This approach excludes physicians from the counts with looser affiliations such as admitting privileges at hospitals.[ix]

SK&A enumerates office-based physicians and seeks information about each of those physician's affiliations, likely excluding many hospital-based physicians. The AHA data does not enumerate individual physicians, but the survey asks about counts of physicians in various hospital-physician relationships; we sum physicians across integrated salary, equity, and

[viii] We describe the HCRIS data in more detail in section IV.

[ix] Although we include physicians' affiliations with all facility types in systems, over 90 percent of the physicians in systems have affiliations with hospitals or outpatient centers (for example, clinics, medical groups, and outpatient surgical centers).

foundation models. The data collection methods used by each source to count the number of physicians in a health system are described in Appendix A.

Table III.5. Data sources for generating aggregated counts of physicians and hospitals

Aggregate Counts	HCOS	SK&A	AHA
Non-Federal general acute care hospital	(1) Not a government or veteran-owned/run facility and (2) flagged as an acute care general hospital, critical access hospital, or children's hospital.	(1) Not a military or veteran-owned/run facility and (2) flagged as a general hospital, critical access hospital, or children's hospital.	(1) Not Air Force, Army, Navy, Public Health Service, veteran, Federal, Indian Health Service, or Department of Justice facilities and (2) the hospital provides one or more of the following services: general medical and surgical or children's general medical and surgical care or is a critical access hospital or a major or minor teaching hospital based on resident to bed ratio.
Physicians (total)	Aggregate count at the health-system level of all medical doctors and doctors of osteopathy, regardless of specialty who had attending, staff, or treating affiliations with facilities in the system.	Aggregate count at the health-system level of all medical doctors and doctors of osteopathy, regardless of specialty.	Aggregate count of medical doctors and doctors of osteopathy across different hospital-physician alignment models: Integrated Salary Model, Equity Model, and Foundation Model.
Primary care physicians	Aggregate count of all medical doctors and doctors of osteopathy within each health system in the following specialties: adolescent medicine, family medicine, geriatrics, general practice, internal medicine, or pediatrics.	Aggregate count of all medical doctors and doctors of osteopathy within each health system in the following specialties: internal medicine, family medicine, internal medicine/pediatrics, general practice, geriatrics, or pediatrics.	Variable not available

C. Step 3: Applying Exclusion Criteria

Through the data sources described above, we identified the hospitals and physicians included in each system (see Tables II.2 and III.5 for more detail regarding the methods each data source uses to identify the hospitals and physicians in systems) consistent with the Compendium's working definition of health systems. We then applied criteria that are intended to exclude health systems without a qualifying hospital or lack a sufficient number of physicians to plausibly provide to their patients comprehensive care (including primary and specialty care).

After hospitals were assigned to health systems and aggregate counts of physicians were generated, we sequentially applied three criteria to exclude systems that do not have a qualifying hospital or comprehensive care capability. First, we excluded health systems that did not have at least one non-Federal general acute care hospital based on any of the three data source (Table

III.6). Next, we excluded health systems that had insufficient numbers of physicians to plausibly offer a reasonably comprehensive range of services to their patients. Finally, we excluded health systems with only very small numbers of primary care physicians.

For the second exclusion criteria, we chose, somewhat arbitrarily, a total of 50 physicians as the threshold. We explored the consequences of lowering the threshold to 40 physicians, which added an additional 29 systems. Web searches of the potential new systems suggested we risked adding some systems offering a limited scope of services in their community. We also considered raising the threshold to 60, which excluded 30 systems, including a few that seemed potentially important health care systems in their community. Therefore, for this initial list, we required at least 50 physicians from at least one of the three data sources.

Our approach may result in underrepresentation of health systems serving patients in rural or frontier areas, or other systems that use other networking approaches (including tele-consultation) to provide comprehensive care to their population and thus require fewer physicians in their employ. In developing future releases of the list, we will consider different physician thresholds—for example, a lower one for health systems serving primarily rural areas with lower population density and a higher one for those serving more densely populated areas. In addition, we will consider alternative approaches that might more accurately identify systems providing comprehensive care.

Finally, we excluded health systems that had fewer than 10 primary care physicians in either the HCOS or SK&A data sources. While the estimated size of the population that can be managed by a single primary care physician varies based on patient complexity, range of services provided, and composition of the primary care team, estimates of primary care panel size suggests that a system would need at least 10 primary care physicians to offer basic primary care to 25,000 patients.[x,xi]

If we increased the threshold to 15 primary care physicians, we would exclude an additional 12 systems. None of these health systems serve predominantly rural populations, but several manage practice locations providing primary care services. Therefore, we retained the threshold at 10 rather than 15 for this version of the list.

It should be noted that the threshold of 10 primary care physicians may lead to exclusions of some health systems that serve populations smaller than 25,000 or that rely more heavily on advanced practice clinicians to provide primary care services. This threshold might particularly affect the enumeration of health systems serving rural or frontier populations. We will consider these issues in future efforts to refine the list of health systems.

Also, as cited in the preceding section, physician counts vary across data sources. We opted to use the largest counts when applying the exclusion criteria. If one source reported 40 physicians

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[x] Altschuler J, Margolius D, Bodenheimer T, et al. Estimating a reasonable patient panel size for primary care physicians with team-based task delegation. Ann Fam Med 2012;10(5):396–400.

[xi] Yarnall KS, Pollak KI, Østbye T, et al. Primary care: is there enough time for prevention? Am J Public Health 2003;93(4):635–41.

and another reported 70 physicians, we opted to use the count of 70, erring on the side of inclusion rather than exclusion.

Finally, we considered additional criteria, including thresholds for key medical and surgical specialties. We found considerable variability across systems and communities, with no clear pattern that ensured these additional exclusions were helping identify systems providing comprehensive care.

Table III.6. Definition of exclusion criteria by data source

Exclusion Criteria	HCOS	SK&A	AHA
Non-Federal general acute care hospitals	Health system has no non-Federal general acute care, critical access, or children's hospitals.	Health system has no non-Federal general acute care, critical access, or children's hospitals.	Health system has no non-Federal hospitals providing general medical and surgical services for adults or children, no critical access hospitals, and no major or minor teaching hospitals.
Number of physicians	Health system has fewer than 50 medical doctors and/or doctors of osteopathy who had attending, staff, or treating affiliations with facilities in the system.	Health system has fewer than 50 medical doctors and/or doctors of osteopathy.	Health system has fewer than 50 physicians participating in the following: Integrated Salary Model, Equity Model, and/or Foundation Model.
Number of primary care physicians	Health system has fewer than 10 medical doctors and/or doctors of osteopathy practicing in the following specialty areas: adolescent medicine, family medicine, geriatrics, general practice, internal medicine, and pediatrics.	Health system has fewer than 10 medical doctors and/or doctors of osteopathy practicing in the following specialty areas: internal medicine, family medicine, internal medicine/pediatrics, general practice, geriatrics, and pediatrics.	Information not available in the AHA data.

Starting with 1,069 health systems (excluding subsystems), we first removed 165 systems that lacked at least one non-Federal general acute care hospital in one or more data sources (Table III.7). Next, across the remaining 904 health systems, we removed 265 systems that did not have at least 50 physicians in one or more data sources. Finally, of the remaining 639 systems, we removed 8 that lacked at least 10 primary care physicians in either the HCOS or SK&A data.

Table III.7. Number of systems excluded from the consolidated list

Exclusion Criteria	Data Source	Number of Systems Excluded	Number Remaining
No non-Federal general acute care hospitals	HCOS. SK&A, AHA	165	904
Fewer than 50 physicians	HCOS, SK&A, AHA	265	639
Fewer than 10 primary care physicians	HCOS, SK&A	8	631

D. Step 4: Conducting Final Manual Review of Consolidated List

After completing all matching activities, identifying and implementing nested relationships, and applying exclusion criteria, we manually reviewed the list to confirm accurate implementation of the process described above and to identify any obvious misclassification. As part of the manual review, we solicited input from the three CoEs and the CHSP TEP.

In addition, we considered whether the list included entities that might not meet the Compendium's working definition of health systems even though at least one of the data sources included them as systems and they passed the exclusion criteria. For example, the list could include hospital management companies that might not provide comprehensive care through close connections between hospitals and medical groups but provide high-level management or consulting services to hospitals and their medical groups. In an effort to identify these candidate hospital management companies, we reviewed the corporate website of entities for which the AHA data indicated they had a hospital under contract management and the management organization name matched the system name. We also reviewed systems classified as primarily investor-owned. To be retained as a system on the list, the corporation website had to either document: (1) common ownership of at least one acute care general hospital and one group of physicians providing comprehensive primary care and specialty care, or (2) tight joint management of at least one acute care general hospital and one group of physicians providing comprehensive primary and specialty care. For this website review we defined tight joint management as a foundation model, shared governance (for example, substantially overlapping board membership of a hospital and comprehensive medical group), or explicit co-branding of physicians with the system. We did not consider physician-hospital organizations, by themselves, to represent tight joint management. Based on these criteria, the following systems were excluded from the final list, which reduces the number of systems from 631 to 626:

- Alliant Management Services
- EPIC Management, LP
- HealthTech Management Services, Inc
- Nuehealth
- Quorum Health Corporation

We note that the list may still include hospital management companies. It is not always possible to assess systems' business models based on the information available for our review, and we did not conduct a separate detailed review of each of the systems on our list. Likewise, the list may

include systems that could be considered specialty care systems, rather than systems devoted to providing comprehensive care for their patient population. We endeavored to exclude specialty systems through such means as requiring that at least one data source indicates that the system included at least one general acute care hospital and the system includes at least 10 primary care physicians. Nonetheless, it is possible some specialty-care focused systems remain in the final list. In developing future releases of the list, we will explore additional criteria that might allow us to further examine systems and consider whether they meet the Compendium's working definition. The current list contains 626 health systems, 486 matched across at least two data sources and 140 unmatched systems (Table III.8).

Table III.8. Final consolidated list

Data	Number of Health Systems
Matched health systems	
HCOS, SK&A, AHA	286
HCOS, SK&A	172
HCOS, AHA	20
SK&A, AHA	8
Total matched	**486**
Unmatched health systems	
HCOS	124
SK&A	14
AHA	2
Total unmatched	**140**
Total health systems	**626**

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IV. Variables Included in the Consolidated List

The list contains the name and location (city, State, and ZIP Code) of each health system we identified through the process outlined above. In addition, we provide the numbers of total physicians, primary care physicians, medical groups, and hospitals (see Table III.5).

The list also contains a handful of contextual variables constructed by linking hospital cost report data available through the HCRIS data.[xii] CMS requires Medicare-certified institutional providers to submit annual cost reports, which make up the HCRIS cost report data. HCRIS data are publicly available and contain information on facility characteristics, utilization data, revenue, and charges. The list uses HCRIS data for calendar year 2015 (January–December) for individual hospitals and provides summary information calculated at the system level.[xiii] These variables are described in Tables IV.1 and IV.2. A full data dictionary for the consolidated list is available in Appendix F.

In 2019, we updated the Compendium to include additional attributes related to whether systems participated in alternative payment models and whether systems offered an insurance product. We include summaries of the variables in Table IV.2 and Appendix F. We provide detailed information regarding the data and methods used to construct the variables in Appendixes D and E, respectively.

Safety net systems. The list provides three indicators related to safety net systems. To identify systems serving low-income and potentially underserved populations, the list draws on two common measures used in the literature to define safety net hospitals. First, we flag systems that have at least one hospital with a high disproportionate share hospital (DSH) patient percentage, which is a measure of a hospital's overall caseload of low-income insured patients. Hospitals paid under the Medicare inpatient prospective payment system (IPPS) report the DSH patient percentage to CMS, which uses it to calculate Medicare DSH payments.[xiv] Systems are categorized as having at least one hospital with a high DSH patient percentage if they have a non-Federal general acute care system hospital in the top quintile of DSH patient percentage among IPPS hospitals.

In addition, the list provides two indicators of uncompensated care burden. Uncompensated care is defined as hospitals' total unreimbursed and uncompensated care costs (including charity care

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[xii] CMS. Cost Reports. https://www.cms.gov/research-statistics-data-and-systems/downloadable-public-use-files/cost-reports/. Accessed August 23, 2017.

[xiii] For non-Federal general acute care system hospitals not matching 2015 data, we used HCRIS data for calendar year 2014. In our final list, 91 percent of non-Federal general acute hospitals with a CCN or AHA ID have HCRIS data. Three systems are missing HCRIS data for all of their non-Federal general acute hospitals.

[xiv] The DSH patient percentage is equal to the sum of the percentage of Medicare inpatient days attributable to patients eligible for both Medicare Part A and Supplemental Security Income (SSI), and the percentage of total inpatient days attributable to patients eligible for Medicaid but not Medicare Part A. The DSH patient percentage is defined as: DSH Patient Percent = (Medicare SSI Days/Total Medicare Days) + (Medicaid, Non-Medicare Days/Total Patient Days). https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/dsh.html. Accessed August 23, 2017.

for uninsured and insured patients) as well as bad-debt expenses.[xv] Uncompensated care burden is calculated as the ratio of uncompensated care to total operating expenses. Systems are categorized as having at least one hospital with a high uncompensated care burden if they have a non-Federal general acute care hospital in the top quintile of uncompensated care burden (the ratio of total uncompensated care to total operating expenses for an individual system hospital).

We also calculated a measure of systemwide uncompensated care burden defined as the ratio of total uncompensated care to total operating expenses across systems' non-Federal general acute care hospitals. Systems are flagged as having *systemwide uncompensated care burden* if they are in the top quintile of uncompensated care burden among U.S. health systems.

Teaching intensity. The list also includes three indicators of teaching intensity. Using the ratio of residents-to-beds, systems are categorized as a *system that includes at least one major teaching hospital* if the system has at least one non-Federal general acute care hospital with a high (≥0.25) resident-to-bed ratio. Systems are categorized as a *system that includes at least one very major teaching hospital* if the system has at least one non-Federal general acute care hospital with a very high (≥ 0.60) resident-to-bed ratio.[xvi] To categorize systems based on their systemwide teaching intensity, we calculated a measure of systemwide resident-to-bed ratio defined as total residents divided by total beds across systems' non-Federal general acute care hospitals. Using this measure, *systemwide teaching intensity* is categorized as nonteaching, minor teaching, or major teaching based on their systemwide resident-to-bed ratio.

As noted in Table IV.1, a minor teaching system is defined as a resident-to-bed ratio greater than zero but less than 0.25 across system non-Federal general acute care hospitals. A major teaching system is defined as a resident-to-bed ratio greater than or equal to 0.25 across member hospitals. Systems with no residents reported among member non-Federal general acute care hospitals are considered nonteaching systems.

Children's systems. We also report on the degree to which a system primarily serves children. Children's hospitals are identified if the hospital facility type was listed as children in HCRIS.[xvii] To create a system measure, we calculated a ratio of system beds in children's general acute care hospitals to total system beds in general acute care hospitals. Specifically, systems are categorized as having no children's hospitals, having at least one children's hospital but not predominantly delivering care at children's hospitals, or predominantly delivering care at

[xv] Bad-debt expenses include the cost of non-Medicare and nonreimbursable Medicare bad-debt expenses.
[xvi] Thresholds used to identify hospitals with high teaching intensity were selected to align with previous literature, including Patel MS, Volpp KG, Small DS, et al. Association of the 2011 ACGME resident duty hour reforms with mortality and readmissions among hospitalized Medicare patients. JAMA 2014;312(22):2364–73.
[xvii] Some children's hospitals do not care for a substantial number of Medicare patients and may not file Medicare cost reports. Thus, children's systems may be underreported in our list. This finding was noted by the Medicaid and CHIP Payment and Access Commission in their February 2016 report to Congress available here: https://www.macpac.gov/wp-content/uploads/2016/01/Report-to-Congress-on-Medicaid-DSH.pdf. Accessed August 23, 2017.

children's hospitals. Systems are categorized as predominantly delivering care at children's hospitals if a majority of hospital beds in the system are in children's hospitals.[xviii]

Investor-owned systems. The list also provides information on whether the hospitals in the system are primarily investor-owned. If most non-Federal general acute care beds in the system are in investor-owned hospitals, the system is categorized as predominantly investor-owned (as noted in Table IV.1). Investor-owned hospitals are those in which the control or ownership status of the hospital is listed as proprietary (individual, corporation, partnership or other) in HCRIS.[xix] Across systems, 87 percent of systems are composed of either completely investor-owned general acute care hospitals or had no investor-owned general acute care hospitals.

Table IV.1. Health system types

System Type Variables	Definition
System includes at least one hospital with a high DSH patient percentage	The DSH patient percentage is defined as: DSH Patient Percentage = (Medicare SSI days/total Medicare days) + (Medicaid, non-Medicare days/total days). Hospitals paid under the IPPS report the DSH patient percentage to CMS, which uses it to calculate Medicare DSH payments. It is a measure of the hospital's overall caseload of low-income insured patients. Systems are categorized as having at least one hospital with a high DSH patient percentage if they have a non-Federal general acute care system hospital in the top quintile[xx] of DSH patient percentage among IPPS hospitals.
System includes at least one hospital with a high uncompensated care burden	Uncompensated care is defined for system hospitals as the sum of charity care and bad-debt expense adjusted by the hospital-specific ratio of cost to charges. Uncompensated care burden is calculated as the ratio of uncompensated care to total operating expense. Systems are categorized as having at least one hospital with a high uncompensated care burden if they have a non-Federal general acute care hospital in the top quintile of uncompensated care burden (the ratio of total uncompensated care to total operating expense for a non-Federal general acute care hospital).

[xviii] We identified two systems (Shriners Hospitals for Children and East Tennessee Childrens Hospital Association) with missing HCRIS data for their hospitals as predominantly delivering care at children's hospitals based on a review of the systems' websites. In addition, we reviewed all non-federal general acute care hospitals with CCNs and missing HCRIS data for "child" in the hospital name. We identified any systems with at least one such hospital with "child" in the hospital name as having at least one children's hospital but not predominantly delivering care at children's hospitals. This approach resulted in changing the values for seven systems. Finally, we reviewed the websites of systems identified as predominantly delivering care at children's hospitals but do not have "child" in the system name to verify that they predominantly serve children. Based on this review, we changed the value for University of South Alabama Hospitals from predominantly delivering care at children's hospitals to having at least one children's hospital but not predominantly delivering care at children's hospitals.

[xix] We compared HCRIS data on investor-owned status to AHA data on investor-owned status for individual hospitals. For cases in which the two data sources disagreed, we considered the hospital to be not investor-owned.

[xx] Quintiles are used to align with prior health services research on defining the safety net, including: Office of the Assistant Secretary for Planning and Evaluation. Social risk factors and performance under Medicare's Value-Based Purchasing Programs: a report required by the Improving Medicare Post-Acute Care Transformation (IMPACT) Act of 2014. Washington, DC: U.S. Department of Health and Human Services; December 2016.

System Type Variables	Definition
Systemwide uncompensated care burden	Uncompensated care is defined for the system as the sum of system hospitals' charity care and bad-debt expense adjusted by the hospital-specific ratio of cost to charges. The systemwide uncompensated care burden is calculated as the ratio of total uncompensated care to total operating expense across systems' non-Federal general acute care hospitals. Systems are flagged if they are in the top quintile of uncompensated care burden among U.S. health systems.[xxi]
System includes at least one major teaching intensity hospital	Systems are categorized as having at least one major teaching intensity hospital if they have at least one non-Federal general acute care hospital with a resident-to-bed ratio greater than or equal to 0.25.
System includes at least one *very major* teaching intensity hospital	Systems are categorized as having at least one very major teaching intensity hospital if they have a non-Federal general acute care hospital with a resident-to-bed ratio greater than or equal to 0.60.
Systemwide teaching intensity	Systems are categorized as nonteaching, minor teaching, or major teaching. A minor teaching system will be defined as a resident-to-bed ratio greater than zero but less than 0.25 across the non-Federal general acute care system hospitals. A major teaching system will be defined as a resident-to-bed ratio greater than or equal to 0.25 across non-Federal general acute care system hospitals. Systems with no residents reported among non-Federal general acute care system hospitals will be considered nonteaching systems.
Degree to which system serves children only	Systems are categorized as having no children's hospitals, having at least one children's hospital but not predominantly delivering care at children's hospitals, or predominantly delivering care at children's hospitals. Systems will be categorized as predominantly delivering care at children's hospitals if a majority of non-Federal general acute care hospital beds in the system are in children's hospitals.
System is predominantly investor-owned	Systems are categorized as predominantly investor-owned if a majority of non-Federal general acute care hospital beds in the system are in investor-owned hospitals.

Health system attributes. We describe additional health system attributes included in the list in Table IV.2. These variables describe the number of hospitals (acute and total), beds, discharges, and full-time-equivalent interns and residents per system. These variables are summed across system hospitals for all non-Federal general acute care hospitals. In addition, the list includes an indicator for multistate systems. Specifically, systems are categorized as a *multistate system* if they have system hospitals in two states or system hospitals in three or more states. This variable includes all member hospitals, even if the member hospital is not acting as a local system in the market in which it is operating. Finally, the list includes variables that indicate whether systems: (1) participated in alternative payment models (indirectly through participation by the systems' hospitals), including an Accountable Care Organization (ACO) or a Medicare bundled payment

[xxi] This definition extends work from previous literature on defining safety net hospitals, including Zuckerman S, Bazzoli G, Davidoff A, et al. How did safety-net hospitals cope in the 1990s? Health Aff 2001;20(4):159-68; and Bazzoli GJ, Kang R, Hasnain-Wynia R, et al. An update on safety-net hospitals: coping with the late 1990s and early 2000s. Health Aff 2005;24(4):1047–56. In these studies, high uncompensated care burden for hospitals was defined as the top decile of uncompensated care burden.

program and (2) offered an insurance product, including any insurance product or a Medicare Advantage (MA) plan.

Table IV.2. Health system attributes included in list

Health System Attributes	Definition
Number of hospitals in systems	Provides a systemwide measure of the count of system hospitals of any type (including general, specialty, rehabilitation, and psychiatric) reported with a valid CCN or AHA ID in one or more of the three data sources.
Number of general acute care hospitals in systems	Provides a systemwide measure of the count of non-Federal general acute care system hospitals (defined in Table III.5) reported with a valid CCN or AHA ID in one or more of the three data sources.
Number of total physicians	Provides a systemwide measure of the count of system physicians (defined in Table III.5). We report the largest number of physicians reported across the three data sources to be consistent with the values used for the exclusion criteria.
Number of primary care physicians	Provides a systemwide measure of the count of system primary care physicians (defined in Table III.5). We report the largest number of primary care physicians reported across the three data sources to be consistent with the values used for the exclusion criteria.
Number of medical groups	Provides a systemwide measure of the count of medical groups. We report the largest number of medical groups reported in the HCOS and SK&A data (AHA data does not report the count of medical groups). In the HCOS data, medical groups are outpatient healthcare centers that provide general and/or specialized services to patients. Typically, they comprise two or more prescribers and one-to-many non-prescribers, such as nurses and medical technicians. In the SK&A data, medical groups are defined as cases in which health care services of three or more physicians are formally organized in a business entity that shares equipment, records and personnel in the provision of patient care and in business management.
Multistate system	Systems are categorized as having system hospitals located in one state, having system hospitals located in two states, or having system hospitals located in three or more states. System hospitals were counted if they were reported with a valid CCN or AHA ID in one or more of the three data sources. The state for each hospital reflects the address listed in HCRIS unless that information was not available, in which case it reflects the address reported in AHA, SK&A, or HCOS, in that order.
Number of beds in systems	Provides a systemwide measure of the total count of hospital beds in the system in non-Federal general acute care hospitals.
Number of discharges in systems	Provides a systemwide measure of the total count of hospital discharges in the system from non-Federal general acute care hospitals.
Number of residents in systems	Provides a systemwide measure of the total count of full-time-equivalent interns and residents in the system in non-Federal general acute care hospitals.

Health System Attributes	Definition
System participates in any ACO contract	Indicates whether any of a system's non-Federal general acute care hospitals participates in at least one commercial Medicare, or Medicaid ACO contract.
System participates in a Medicare bundled payment model	Indicates whether any of a system's non-Federal general acute care hospitals participates in the Comprehensive Care for Joint Replacement (CJR) model or the Bundled Payments for Care Improvement (BPCI) initiative.
System offers any insurance product	Indicates whether any of a system's non-Federal general acute care hospitals reported that the hospital or its system has equity interest in a HMO, PPO, or indemnity fee-for-service plan within the hospital, within the hospital's system, or is in a joint venture with an insurer.
System offers a Medicare Advantage plan	Indicates whether the system offers an MA plan (including MA Cost), Program of All-inclusive Care for the Elderly (PACE), or demonstration plans.

ACO = Accountable Care Organization; AHA = American Hospital Association Annual Survey Database; HCOS = QuintilesIMS Healthcare Organization Services; HMO = Health Maintenance Organization; PPO = Preferred Provider Organization.

V. Caveats and Limitations

This initial release of the consolidated list enables stakeholders to examine systems that meet the Compendium's working definition of health systems, counts of their members, and a handful of key attributes. There are a few caveats and limitations to the current approach for identifying health systems and creating the list that stakeholders should consider when using the list. AHRQ will continue to work closely with the CoEs, the Coordinating Center, the CHSP TEP, and other stakeholders to identify strategies to minimize limitations of this and future lists.

A. Narrow Working Definition of Health System

The working definition used in the development of the list excludes health systems that do not own hospitals. We recognize this approach excludes some well-established physician organizations that provide comprehensive management of their patient populations without an ownership or tight comanagement relationship with a hospital. In addition, the thresholds set for physician numbers may result in the exclusion of health systems using advanced practice clinicians, tele-consultation, or other innovative collaborations to provide comprehensive care to their population. This issue may be especially relevant to systems in rural and frontier communities.

Identifying local systems. In addition, health systems on the list are defined based on their structure aggregated to the highest level. For example, a national parent system operating multiple local subsystems is reported in the list as a national system rather than each local subsystem being identified and assessed separately to determine if it meets the Compendium working definition. The nesting of systems will preclude the identification of subsystems operating in specific states or local markets. Furthermore, the list might include systems that operate individual hospitals in local markets that are not co –owned or jointly managed with a comprehensive group of local physicians, and thus some parent systems may not function under AHRQ's definition of a system within each local market where it has a presence.

B. Discrepancies Across Data Sources

We have identified discrepancies in systems' attributes reported in the three data sources, including fairly substantial discrepancies in counts of physicians for some systems appearing in HCOS, SK&A, and AHA.[xxii] Table V.1 provides examples of the largest discrepancies in physician counts across the three data sources. The discrepancies are, in part, due to the inclusion of hospital staff physicians in HCOS. In addition, HCOS uses Drug Distribution Data that enables quick identification of new organizations to investigate and potentially add to their database.[xxiii] Therefore, the HCOS data report the highest number of physicians for the vast

[xxii] Note, the physician counts reflect some double counting of physicians, as physicians can be attributed to more than one system (for example, 87.5 percent of the aggregate HCOS physician count across all systems on the list is attributed to only one system).

[xxiii] Information on the data collection methods was gathered through a conversation with staff at QuintilesIMS on May 19, 2017.

majority of systems. The differences in the way that the data are collected and the sets of physicians included in the data also contribute to the discrepancies (Table III.5).

Table V.1. Examples of discrepancies in physician counts across data sources

Health System	HCOS	SK&A	AHA
Trinity Health	8,790	3,490	6,340
Hospital Corporation of America, Inc.	9,162	3,443	684
Kaiser Permanente	20,300	8,011	4,011

C. Data Collection Methods

Each data source has its own proprietary methodology for collecting data. However, all of the sources rely on some degree of self-report by representatives at hospitals and medical groups (see Appendix A). For example, SK&A calls physician practice sites and works with the practice manager or a similarly knowledgeable person to enumerate providers within that practice. The practice manager is also the source of information about provider affiliations with hospitals and practice ownership. HCOS links professionals to organizations via a combination of a proprietary address algorithm and a manual process. HCOS periodically calls practices and asks the practice managers to confirm or update the accuracy of the information contained within their database and uses hospital web data to enumerate physicians within hospitals once the hospital confirms the website is current. AHA data are derived from a cross-sectional survey of more than 6,400 hospitals operating in the United States. Respondents self-report the characteristics and attributes of their hospital, including counts of affiliated physicians. As with all self-reported data, the accuracy of the information depends on the knowledge of the informant, the salience of the task to the informant, and the meaning the informant ascribes to key terms such as affiliation and ownership.

D. Potential Misalignment of System Definitions Between the Data and the Compendium's Working Definition

It can be difficult to determine the exact nature of the relationships between systems and their members, which can make it challenging to precisely determine whether an entity meets the Compendium's working definition. For example, while we removed a handful of hospital management companies that might not meet the working definition, it is possible that the current list contains other such companies. Similarly, the data identify several systems as having a general acute care hospital that appears to focus on delivering specialty care to a select population, which might mean the system is not providing comprehensive care according to the working definition. Ultimately, while we take steps to refine the list of systems to better align with the working definition, the list is largely reliant on the data sources' definitions of systems aligning with the working definition.

E. Accuracy of Primary Care Designation

We used physician specialty information from HCOS and SK&A to determine if physicians provided primary care. However, neither source indicates the setting in which physicians in these specialties (internal medicine, family medicine, general practice, pediatrics, and geriatrics) provide services. Therefore, it is possible most or all of the physicians in these specialties in a

specific system might focus their services largely or exclusively on care of hospitalized patients; that is, they are functioning as hospitalists, not physicians providing comprehensive primary care to ambulatory patients of the health system.

This limitation means health systems on the list may meet the requirement for 10 primary care physicians but provide patients little or no outpatient primary care services. We are considering ways to learn more about the roles of physicians in systems to identify such cases; for example, merging physician-level data from SK&A and HCOS with MD-PPAS (which uses claims analysis to identify hospitalist physicians).

F. Mergers and Acquisitions

The list reflects health systems in the United States at the end of 2016. However, since HCOS, SK&A, and AHA data vary in the periodicity of their updates, there may be lags in updating changes to systems, such as mergers, acquisitions, and name changes, that occurred prior to the end of 2016. As we developed the current version of the list, we identified a host of health systems that were acquired by or merged with other systems, and it is conceivable there are others. Thus, the period represented by the list aligns with the periods covered by the data sources (2015 for AHA and 2016 for HCOS and SK&A), with some level of updating accomplished through manual review of select systems. We will continue to consider how we might systematically identify mergers and acquisitions on an ongoing and timely basis.

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Appendix A. QuintilesIMS/SK&A and AHA Methodologies

Note: The information in this appendix is based on (1) a conversation with QuintilesIMS on May 19, 2017 and (2) Cohen GR, Jones DJ, Heeringa J, et al. Leveraging diverse data sources to identify and describe U.S. healthcare delivery systems. eGEMs, vol. 5, no. 3, December 2017.

QuintilesIMS maintains two integrated databases relevant to the study of health system performance under the umbrella of Healthcare Relational Services (HCRS). The first, the Healthcare Professional Services (OneKey Professionals) database, focuses on health professionals (for example, physicians, residents, and physician extenders, such as nurses and physician assistants) and contains health care administrators.

QuintilesIMS maintains OneKey Professionals by using manual stewardship and updates from industry source data (including American Medical Association, CMS' National Plan and Provider Enumeration System [NPPES], State Controlled Substance Registration, Drug Enforcement Administration [DEA] identifier, and other established industry source data). OneKey Professionals providers are integrated into the Healthcare Organization Services (HCOS), also known as OneKey Organizations database, the second of the two OneKey databases.

The providers in OneKey Professionals are bridged to the organizations in OneKey Organizations as provider affiliations via a combination of a proprietary address intelligence algorithm and manual stewardship, in which individual provider addresses are processed against organizations in OneKey Organizations through established business rules to create a provider affiliation.

Organizations in OneKey Organizations are manually identified or identified using the Drug Distribution Data (DDD) nonretail shipping address. OneKey Professionals addresses are run through proprietary address intelligence software and given a rank from negative 5 to 10. A rank of 6 or higher triggers an attempt to match to organizations in OneKey Organizations.

Most professionals in OneKey Professionals will have at least one address with a score of 6 or higher. Of the approximately 8.1 million professionals in OneKey Professionals, about 2.5 million have an association with an organization in OneKey Organizations. OneKey Organizations contains information on approximately 650,000 medical group practices, hospitals, accountable care organizations (ACOs), and other organizations. Fields include organizational characteristics such as bed count, provider counts, health information technology infiltration, and finances.

OneKey Organizations is periodically verified via telephone; the timing of verification calls varies by organization type. Each time a medical group practice is verified, so too are the providers within that group. For hospital verification, QuintilesIMS confirms with hospitals that their website is up to date. Then, QuintilesIMS uses web-based information to determine which providers are affiliated with that hospital. They also break down affiliation types for physicians' relationships to hospitals—attending or admitting. All relationships between organizations in OneKey Organizations are researched and the relationship is verified with both entities to confirm that a relationship exists and to determine the nature of the relationship.

SK&A, recently acquired by QuintilesIMS, is a private provider of U.S. healthcare reference information that creates lists of physicians, hospitals, ACOs, and other health care providers. The physician database specifically profiles physicians and other office-based prescribers, including residents.

SK&A processes data from DEA registration files, NPPES, and company and corporate directories to identify existing providers. Information is validated through phone calls to practice site locations every six months, and the database is updated on a rolling basis. SK&A databases are primarily designed to support marketing by providing information about medical groups but are increasingly used for research purposes. The SK&A database contains 800,000 active office-based physicians, including residents.

SK&A defines an integrated health system based on common ownership or management of groups, hospitals, and other health care facilities by a common corporate entity. SK&A uses both a bottom-up and top-down approach to identify health systems. For the bottom-up approach, SK&A calls medical group practice sites[i] and enumerates physicians, identifies hospitals in which physicians within the practice have admitting privileges, and asks about hospital or health system ownership of the practice. This approach is augmented by a top-down approach in which SK&A searches health system websites, trade publications, and other sources for health system information. The physician database includes a number of descriptive variables, such as location, size, and adoption and use of health information technology.

AHA fields an annual cross-sectional survey of the more than 6,400 U.S. hospitals; the survey typically has a response rate of more than 80 percent. The objective of the survey is to track and monitor the evolution of new systems of care, care coordination functions, and various payment models used in providing care to a population as they are experienced by hospitals. Data are supplied by hospital administrators online, as well as by paper and pencil. Although the survey has a cross-sectional design, the unique hospital identifier (AHA ID) can be used for cohort studies to monitor changes in hospitals over time. Data from the survey are stored in the AHA Annual Survey Database.

The AHA survey provides several mechanisms for identifying health care delivery systems. The data may be used to identify horizontally integrated hospitals, identify hospitals that have vertical relationships with physicians, and characterize the nature of these relationships in a health system taxonomy. The relationships include hospital affiliations with physicians through integrated salary models or equity models; medical group or physician ownership of hospitals; hospital participation in foundation models; and hospital-physician alignment through management services organizations and physician hospital organizations. In creating the list, we used a system membership variable that identifies multihospital and diversified single hospital health care systems.

[i] A medical group practice comprises three or more physicians formally organized in a business entity that shares equipment, records, and personnel in the provision of patient care and in business management.

Appendix B. Automated Matches

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000002	AMG Integrated Healthcare Management	101 LA RUE FRANCE, LAFAYETTE, LA, 70508-3138			AMG Integrated Healthcare Management	101 LA RUE FRANCE, Lafayette, LA, 70508-3144
HSI00000005			Acadia Healthcare	830 CRES CENTRE DR, Franklin, TN, 37067-7323	Acadia Healthcare Company, Inc.	830 CRESCENT CENTRE DRIVE, Franklin, TN, 37067-7323
HSI00000006	Acuityhealthcare, LP	10200 MALLARD CREEK RD, CHARLOTTE, NC, 28262-9705			AcuityHealthcare, LP	10200 MALLARD CREEK ROAD, Charlotte, NC, 28262-9705
HSI00000008	Adena Health System	272 HOSPITAL RD, CHILLICOTHE, OH, 45601-9031	Adena Health System	272 HOSP RD, Chillicothe, OH, 45601-9031	Adena Health System	272 HOSPITAL ROAD, Chillicothe, OH, 45601-9031
HSI00000009	Adirondack Health	2233 STATE ROUTE 86, SARANAC LAKE, NY, 12983-5644	Adirondack Health	2233 STATE ROUTE 86, Saranac Lake, NY, 12983-5644		
HSI00000010	Adventist Health System	900 HOPE WAY, ALTAMONTE SPRINGS, FL, 32714-1502	Adventist Health System	900 HOPE WAY, Altamonte Springs, FL, 32714-1502	Adventist Health System Sunbelt Health Care Corporation	900 HOPE WAY, Altamonte Springs, FL, 32714-1502
HSI00000012	Adventist HealthCare	820 W DIAMOND AVE, GAITHERSBURG, MD, 20878-1469	Adventist Healthcare	820 W DIAMOND AVE, Gaithersburg, MD, 20878-1469	Adventist HealthCare	820 WEST DIAMOND AVENUE, Gaithersburg, MD, 20878-1419
HSI00000013	Advocate Health Care	3075 HIGHLAND PKWY, DOWNERS GROVE, IL, 60515-1288	Advocate Health Care	3075 HIGHLAND PKWY FL 6, Downers Grove, IL, 60515-5563	Advocate Health Care	3075 HIGHLAND PARKWAY, Downers Grove, IL, 60515-1206
HSI00000015	Agnesian Healthcare	430 E DIVISION ST, FOND DU LAC, WI, 54935-4560	Agnesian Healthcare	430 E DIV ST, Fond Du Lac, WI, 54935-4560		
HSI00000019	Albany Medical Center	43 NEW SCOTLAND AVE, ALBANY, NY, 12208-3412	Albany Medical Center	43 NEW SCOTLAND AVE, Albany, NY, 12208-3478		

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000020	Albert Einstein Healthcare Network	5501 OLD YORK RD, PHILADELPHIA, PA, 19141-3018	Albert Einstein Healthcare Network	5501 OLD YORK RD, Philadelphia, PA, 19141-3018	Einstein Healthcare Network	5501 OLD YORK ROAD, Philadelphia, PA, 19141-3098
HSI00000025	Allegheny Health Network	30 ISABELLA ST, PITTSBURGH, PA, 15212-5862	Allegheny Health Network	30 ISABELLA ST, Pittsburgh, PA, 15212-5862	Allegheny Health Network	30 ISABELLA STREET, Pittsburgh, PA, 15212-5862
HSI00000026	Allegiance Health Management	504 TEXAS ST, SHREVEPORT, LA, 71101-3526			Allegiance Health Management	504 TEXAS STREET, Shreveport, LA, 71101-3526
HSI00000028			Alliant Management Services	2650 EASTPOINT PKWY, Louisville, KY, 40223-5164	Alliant Management Services	2650 EASTPOINT PARKWAY, Louisville, KY, 40223-5164
HSI00000030			Alta Hospitals System	10780 SANTA MONICA BLVD, Los Angeles, CA, 90025-7616	Alta Healthcare System	10780 SANTA MONICA BOULEVARD, Los Angeles, CA, 90025-7616
HSI00000031			AltaPointe Health Systems	5750 SOUTHLAND DR, Mobile, AL, 36693-3316	AltaPointe Health Systems	5750-A SOUTHLAND DRIVE, Mobile, AL, 36693-3316
HSI00000032	Altru Health System	1200 S COLUMBIA RD, GRAND FORKS, ND, 58201-4036	Altru Health System	1000 S COLUMBIA RD, Grand Forks, ND, 58201-4032		
HSI00000035			Anmed Health System	800 N FANT ST, Anderson, SC, 29621-5708	AnMed Health	800 NORTH FANT STREET, Anderson, SC, 29621-5793
HSI00000037	Anna Jacques Hospital	25 HIGHLAND AVE, NEWBURYPORT, MA, 01950-3867	Sea Coast Regional Health Systems	25 HIGHLAND AVE, Newburyport, MA, 01950-3867		
HSI00000038	Anne Arundel Health System, Inc	2001 MEDICAL PKWY, ANNAPOLIS, MD, 21401-3773	Anne Arundel Health System	2001 MED PKWY, Annapolis, MD, 21401-3773		
HSI00000042	Appalachian Regional Healthcare System	336 DEERFIELD RD, BOONE, NC, 28607-5008			Appalachian Regional Healthcare System	336 DEERFIELD ROAD, Boone, NC, 28607-5008

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000044	ArchCare	205 LEXINGTON AVE, NEW YORK, NY, 10016-6022	ArchCare	205 LEXINGTON AVE FL 3, New York, NY, 10016-6022		
HSI00000045	Archbold Medical Center	910 S BROAD ST, THOMASVILLE, GA, 31792-6113			Archbold Medical Center	910 SOUTH BROAD STREET, Thomasville, GA, 31792-6113
HSI00000046	Ardent Health Services	1 BURTON HILLS BLVD, NASHVILLE, TN, 37215-6195			Ardent Health Services	1 BURTON HILLS BOULEVARD, Nashville, TN, 37215-6195
HSI00000052	Arnot Health	600 ROE AVE, ELMIRA, NY, 14905-1629	Arnot Health	600 ROE AVE, Elmira, NY, 14905-1629	Arnot Health	600 ROE AVENUE, Elmira, NY, 14905-1629
HSI00000054	Asante Health System	2650 SISKIYOU BLVD, MEDFORD, OR, 97504-8170	Asante Health System	2650 SISKIYOU BLVD, Medford, OR, 97504-8170	Asante Health System	2650 SISKIYOU BOULEVARD, Medford, OR, 97504-8170
HSI00000057			Aspirus Inc	425 PINE RIDGE BLVD, Wausau, WI, 54401-4123	Aspirus, Inc.	425 PINE RIDGE BOULEVARD, Wausau, WI, 54401-4123
HSI00000058	Athens Regional Health System	1199 PRINCE AVE, ATHENS, GA, 30606-2797	Athens Regional Health System	1199 PRINCE AVE, Athens, GA, 30606-2797		
HSI00000059	Atlantic General Health System	9733 HEALTHWAY DR, BERLIN, MD, 21811-1155	Atlantic General Hospital Corporation	9733 HEALTHWAY DR, Berlin, MD, 21811-1156		
HSI00000060	Atlantic Health System	475 SOUTH ST, MORRISTOWN, NJ, 07960-6459	Atlantic Health System	475 S ST, Morristown, NJ, 07960-6459	Atlantic Health System	475 SOUTH STREET, Morristown, NJ, 07962
HSI00000064	Augusta University Medical Center	1120 15TH ST, AUGUSTA, GA, 30912-0004	Georgia Health Sciences Health System	1120 15TH ST, Augusta, GA, 30912-0004		
HSI00000065	Aultman Health Foundation	2600 6TH ST SW, CANTON, OH, 44710-1702			Aultman Health Foundation	2600 SIXTH STREET SW, Canton, OH, 44710-1702

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000066	Aurora Health Care, Inc	750 W VIRGINIA ST, MILWAUKEE, WI, 53204-1539	Aurora Health Care	750 W VIRGINIA ST, Milwaukee, WI, 53204-1539	Aurora Health Care	750 VIRGINIA STREET, Milwaukee, WI, 53204
HSI00000067	Avanti Hospitals	222 N SEPULVEDA BLVD, EL SEGUNDO, CA, 90245-5627	Avanti Hospitals	222 N SEPULVEDA BLVD, El Segundo, CA, 90245-5614	Avanti Hospitals	222 NORTH SEPULVEDA BOULEVARD, El Segundo, CA, 90245-5614
HSI00000068	Avera Health	3900 W AVERA DR, SIOUX FALLS, SD, 57108-5717	Avera Health	3900 W AVERA DR, Sioux Falls, SD, 57108-5717	Avera Health	3900 WEST AVERA DRIVE, Sioux Falls, SD, 57108-5721
HSI00000069	Avita Health System	269 PORTLAND WAY S, GALION, OH, 44833-2312			Avita Health System	269 PORTLAND WAY SOUTH, Galion, OH, 44833-2399
HSI00000070	BJC HealthCare	4901 FOREST PARK AVE, SAINT LOUIS, MO, 63108-1402	BJC Healthcare	4901 FOREST PK AVE, Saint Louis, MO, 63108-1402	BJC HealthCare	4901 FOREST PARK AVENUE, Saint Louis, MO, 63108-1402
HSI00000073	Banner Health	2901 N CENTRAL AVE, PHOENIX, AZ, 85012-2702	Banner Health	1441 N 12TH ST, Phoenix, AZ, 85006-2887	Banner Health	1441 NORTH 12TH STREET, Phoenix, AZ, 85006-2837
HSI00000074	Baptist Health	9601 BAPTIST HEALTH DR, LITTLE ROCK, AR, 72205-6321	Baptist Health	9601 INTERSTATE 630, Little Rock, AR, 72205-7299	Baptist Health	9601 INTERSTATE 630, EXIT 7, Little Rock, AR, 72205-7299
HSI00000075	Baptist Health	8400 PRUDENTIAL DR, JACKSONVILLE, FL, 32207	Baptist Health	800 PRUDENTIAL DR, Jacksonville, FL, 32207-8202	Baptist Health	841 PRUDENTIAL DRIVE, Jacksonville, FL, 32207-8202
HSI00000077	Baptist Health South Florida	6855 SW 57TH AVE, CORAL GABLES, FL, 33143-3518	Baptist Health South Florida	6855 SW 57TH AVE, Coral Gables, FL, 33143-3647	Baptist Health South Florida	6855 RED ROAD, Coral Gables, FL, 33143-3632
HSI00000080	Baptist Healthcare System, Inc	2701 EASTPOINT PKWY, LOUISVILLE, KY, 40223-4166	Baptist Healthcare System	2701 EASTPOINT PKWY, Louisville, KY, 40223-4166	Baptist Health	2701 EASTPOINT PARKWAY, Louisville, KY, 40223

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000081	Baptist Memorial Health Care Corporation	350 N HUMPHREYS BLVD, MEMPHIS, TN, 38120-2177	Baptist Memorial Health Care	350 N HUMPHREYS BLVD, Memphis, TN, 38120-2177	Baptist Memorial Health Care Corporation	350 NORTH HUMPHREYS BOULEVARD, Memphis, TN, 38120-2177
HSI00000087	Bassett Healthcare Network	1 ATWELL RD, COOPERSTOWN, NY, 13326-1301	Bassett Healthcare Network	1 ATWELL RD, Cooperstown, NY, 13326-1301	Bassett Healthcare Network	1 ATWELL ROAD, Cooperstown, NY, 13326-1301
HSI00000092	BayCare Health System	2985 DREW ST, CLEARWATER, FL, 33759-3012	Baycare Health System	2985 DREW ST, Clearwater, FL, 33759-3012		
HSI00000094	Bayhealth, Inc	640 S STATE ST, DOVER, DE, 19901-3530	Bayhealth Medical Center	640 S STATE ST, Dover, DE, 19901-3530		
HSI00000096	Baylor Scott and White Health	4005 CRUTCHER ST, DALLAS, TX, 75246-1784	Baylor Scott & White Health	4005 CRUTCHER ST, Dallas, TX, 75246-1784	Baylor Scott & White Health	4005 CRUTCHER STREET, Dallas, TX, 75246-1779
HSI00000097	Baystate Health	280 CHESTNUT ST, SPRINGFIELD, MA, 01199-1000	Baystate Health	280 CHESTNUT ST FL 1, Springfield, MA, 01199-1000	Baystate Health, Inc.	759 CHESTNUT STREET, Springfield, MA, 01199-0001
HSI00000098	Beacon Health System	615 N MICHIGAN ST, SOUTH BEND, IN, 46601-1033	Beacon Health System	615 N MICHIGAN ST, South Bend, IN, 46601-1033	Beacon Health System	615 NORTH MICHIGAN STREET, South Bend, IN, 46601-1033
HSI00000103	Beebe Healthcare	424 SAVANNAH RD, LEWES, DE, 19958-1462	Beebe Healthcare	424 SAVANNAH RD, Lewes, DE, 19958-1462		
HSI00000106	Beloit Health System, Inc	1969 W HART RD, BELOIT, WI, 53511-2230	Beloit Health System	1969 W HART RD, Beloit, WI, 53511-2298		
HSI00000107	Benefis Healthcare System	1101 26TH ST S, GREAT FALLS, MT, 59405-5161	Benefis Health System	1101 26TH ST S, Great Falls, MT, 59405-5161	Benefis Health System	1101 26TH STREET SOUTH, Great Falls, MT, 59405-5161
HSI00000108	Berger Health System	600 N PICKAWAY ST, CIRCLEVILLE, OH, 43113-1447	Berger Health System	600 N PICKAWAY ST, Circleville, OH, 43113-1447		

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000109	Berkshire Health Systems, Inc	725 NORTH ST, PITTSFIELD, MA, 01201-4109	Berkshire Health System	725 N ST, Pittsfield, MA, 01201-4109	Berkshire Health Systems, Inc.	725 NORTH STREET, Pittsfield, MA, 01201-4124
HSI00000110	Beth Israel Deaconess Medical Center	330 BROOKLINE AVE, BOSTON, MA, 02215-5400	Care Group Healthcare System	330 BROOKLINE AVE, Boston, MA, 02215-5400		
HSI00000112	Bethesda Health, Inc	2815 S SEACREST BLVD, BOYNTON BEACH, FL, 33435-7969	Bethesda Health	2815 S SEACREST BLVD, Boynton Beach, FL, 33435-7934		
HSI00000114	Billings Clinic	2800 10TH AVE N, BILLINGS, MT, 59101-0703	Billings Clinics	2800 10TH AVE N, Billings, MT, 59101-0703		
HSI00000116			Blanchard Valley Health	1900 S MAIN ST, Findlay, OH, 45840-1214	Blanchard Valley Health System	1900 SOUTH MAIN STREET, Findlay, OH, 45840-1214
HSI00000119			Blue Mountain Health System	211 N 12TH ST, Lehighton, PA, 18235-1138	Blue Mountain Health System	211 NORTH 12TH STREET, Lehighton, PA, 18235-1138
HSI00000125	Bon Secours Health System, Inc	1505 MARRIOTTSVILLE RD, MARRIOTTSVL, MD, 21104-1301	Bon Secours Health System Inc	1505 MARRIOTTSVILLE RD, Marriottsville, MD, 21104-1301	Bon Secours Health System, Inc.	1505 MARRIOTTSVILLE ROAD, Marriottsville, MD, 21104-1399
HSI00000132	Boulder Community Health	1100 BALSAM AVE, BOULDER, CO, 80304-3404	Boulder Community Health	1100 BALSAM AVE, Boulder, CO, 80304-3404		
HSI00000135	Bozeman Deaconess Hospital	915 HIGHLAND BLVD, BOZEMAN, MT, 59715-6902			Bozeman Health	915 HIGHLAND BOULEVARD, Bozeman, MT, 59715-6902
HSI00000139	Bronson Healthcare Group, Inc	301 JOHN ST, KALAMAZOO, MI, 49007-5295	Bronson Health	301 JOHN ST, Kalamazoo, MI, 49007-5295	Bronson Healthcare Group	301 JOHN STREET, Kalamazoo, MI, 49007-5295
HSI00000140	Bronx-Lebanon Hospital Center Healthcare System	1276 FULTON AVE, BRONX, NY, 10456-3402	Bronx-lebonon Hospital Center Healthcare System	1276 FULTON AVE, Bronx, NY, 10456-3402		

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000141	Brookings Health System	300 22ND AVE, BROOKINGS, SD, 57006-2480	Brookings Health System	300 22ND AVE, Brookings, SD, 57006-2481		
HSI00000143	Bryan Health	1600 S 48TH ST, LINCOLN, NE, 68506-1283	Bryan Health	1600 S 48TH ST, Lincoln, NE, 68506-1299	Bryan Health	1600 SOUTH 48TH STREET, Lincoln, NE, 68506-1283
HSI00000146	Butler Health System	1 HOSPITAL WAY, BUTLER, PA, 16001-4670	Butler Health System	1 HOSP WAY, Butler, PA, 16001-4670		
HSI00000152	CHRISTUS Health	919 HIDDEN RDG, IRVING, TX, 75038-3813	Christus Health	919 HIDDEN RDG, Irving, TX, 75038-3813	CHRISTUS Health	919 HIDDEN RIDGE DRIVE, Irving, TX, 75038
HSI00000153			CRC Health Group	20400 STEVENS CREEK BLVD, Cupertino, CA, 95014-2296	CRC Health Group, Inc.	20400 STEVENS CREEK BOULEVARD, Cupertino, CA, 95014-2217
HSI00000156	Cambridge Health Alliance	1493 CAMBRIDGE ST, CAMBRIDGE, MA, 02139-1047	Cambridge Health Alliance	1493 CAMBRIDGE ST, Cambridge, MA, 02139-1099		
HSI00000160	Cancer Treatment Centers of America	5900 BROKEN SOUND PKWY NW, BOCA RATON, FL, 33487-2797	Cancer Treatment Centers America	1336 BASSWOOD RD, Schaumburg, IL, 60173-4544	Cancer Treatment Centers of America	1336 BASSWOOD ROAD, Schaumburg, IL, 60173-4544
HSI00000161	Cape Cod Healthcare, Inc	25 COMMUNICATION WAY, HYANNIS, MA, 02601-8137	Cape Cod Healthcare	27 PK ST, Hyannis, MA, 02601-5230	Cape Cod Healthcare, Inc.	27 PARK STREET, Hyannis, MA, 02601-5230
HSI00000164	Capital Health System	750 BRUNSWICK AVE, TRENTON, NJ, 08638-4143	Capital Health	750 BRUNSWICK AVE, Trenton, NJ, 08638-4143	Capital Health	750 BRUNSWICK AVENUE, Trenton, NJ, 08638-4143
HSI00000165	Capital Region Health Care	250 PLEASANT ST, CONCORD, NH, 03301-7539	Concord Hospital Family Health Center	250 PLEASANT ST, Concord, NH, 03301-7539		
HSI00000166	Care New England Health System, Inc	45 WILLARD AVE, PROVIDENCE, RI, 02905-3218	Care New England Health System	45 WILLARD AVE, Providence, RI, 02905-3218	Care New England Health System	45 WILLARD AVENUE, Providence, RI, 02905-3218

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000172	CarolinaEast Health System	2000 NEUSE BLVD, NEW BERN, NC, 28560-3449	Carolinaeast Health System	2000 NEUSE BLVD, New Bern, NC, 28560-3449		
HSI00000178	Carson Tahoe Health	1600 MEDICAL PKWY, CARSON CITY, NV, 89703-4625	Carson Tahoe Health	1600 MED PKWY, Carson City, NV, 89703-4625		
HSI00000183	Catholic Health Initiatives	198 INVERNESS DR W, ENGLEWOOD, CO, 80112-5202	Catholic Health Initiatives	198 INVERNESS DR W, Englewood, CO, 80112-3637	Catholic Health Initiatives	198 INVERNESS DRIVE WEST, Englewood, CO, 80112-5202
HSI00000185			Catholic Health Services	4790 N STATE RD 7, Lauderdale Lakes, FL, 33319-5860	Catholic Health Services	4790 NORTH STATE ROAD 7, Lauderdale Lakes, FL, 33319-5860
HSI00000186	Catholic Health Services of Long Island	992 N VILLAGE AVE, ROCKVILLE CENTRE, NY, 11570-1002	Catholic Health Services Long Island	992 N VLG AVE, Rockville Centre, NY, 11570-1002	Catholic Health Services of Long Island	992 NORTH VILLAGE AVENUE, 1ST FLOOR, Rockville Centre, NY, 11570-1002
HSI00000187			Catholic Health System	144 GENESEE ST FL 1, Buffalo, NY, 14203-1560	Catholic Health System	144 GENESEE STREET, Buffalo, NY, 14203-1560
HSI00000189	Cayuga Medical Center	101 DATES DR, ITHACA, NY, 14850-1342			Cayuga Health System	101 DATES DRIVE, Ithaca, NY, 14850-1342
HSI00000190	Cedars-Sinai Health System	8700 BEVERLY BLVD, WEST HOLLYWOOD, CA, 90048-1804	Cedars-Sinai Health System	8700 BEVERLY BLVD, Los Angeles, CA, 90048-1804	Cedars-Sinai	8700 BEVERLY BOULEVARD, West Hollywood, CA, 90048-1865
HSI00000191	Centegra Health System	385 MILLENNIUM DR, CRYSTAL LAKE, IL, 60012-3761	Centegra Health System	385 MILLENNIUM DR, Crystal Lake, IL, 60012-3761	Centegra Health System	385 MILLENNIUM DRIVE, Crystal Lake, IL, 60012-3761
HSI00000192	Centra Health	1920 ATHERHOLT RD, LYNCHBURG, VA, 24501-1104	Centra Health Inc	1901 TATE SPRINGS RD, Lynchburg, VA, 24501-1109	Centra Health, Inc.	1920 ATHERHOLT ROAD, Lynchburg, VA, 24501-1104

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000193	CentraCare Health System	1406 6TH AVE N, SAINT CLOUD, MN, 56303-1900	Centracare	1406 6TH AVE N, Saint Cloud, MN, 56303-1900	CentraCare Health	1406 SIXTH AVENUE NORTH, Saint Cloud, MN, 56303-1900
HSI00000194	CentraState Healthcare System	901 W MAIN ST, FREEHOLD, NJ, 07728-2537	Centrastate Healthcare System	901 W MAIN ST, Freehold, NJ, 07728-2537		
HSI00000195	Central Florida Health Alliance	600 E DIXIE AVE, LEESBURG, FL, 34748-5925	Central Florida Health Alliance	410 S CHILDS ST, Leesburg, FL, 34748	Central Florida Health	600 EAST DIXIE AVENUE, Leesburg, FL, 34748-5925
HSI00000197	Central Maine Healthcare Corporation (Central Maine Healthcare)	300 MAIN ST, LEWISTON, ME, 04240-7027	Central Maine Healthcare	300 MAIN ST, Lewiston, ME, 04240-7027	Central Maine Healthcare	300 MAIN STREET, Lewiston, ME, 04240-7027
HSI00000203	Chattanooga Hamilton County Hospital Authority (Erlanger Health System)	975 E 3RD ST, CHATTANOOGA, TN, 37403-2147	Erlanger Health System	975 E 3RD ST, Chattanooga, TN, 37403-2147	Erlanger Health System	975 EAST THIRD STREET, Chattanooga, TN, 37403-2147
HSI00000209	Childrens Healthcare of Atlanta	1600 TULLIE CIR NE, ATLANTA, GA, 30329-2303	Children's Healthcare Of Atlanta	1600 TULLIE CIR NE, Atlanta, GA, 30329-2303		
HSI00000216	Childrens National Medical Center	111 MICHIGAN AVE NW, WASHINGTON, DC, 20010-2916	Children's National Health System	111 MICHIGAN AVE NW, Washington, DC, 20010-2916		
HSI00000217	Childrens of Alabama	1600 7TH AVE S, BIRMINGHAM, AL, 35233-1711	Childrens Of Alabama	1600 7TH AVE S, Birmingham, AL, 35233-1711		
HSI00000223	Christus Trinity Mother Frances Health System	800 E DAWSON ST, TYLER, TX, 75701-2036	Trinity Mother Frances Hospitals & Clinics	800 E DAWSON ST, Tyler, TX, 75701-2036		
HSI00000225	Citizens Memorial Healthcare	1500 N OAKLAND AVE, BOLIVAR, MO, 65613-3011	Citizens Memorial Healthcare	1500 N OAKLAND AVE, Bolivar, MO, 65613-3011		
HSI00000226	Citrus Valley Health Partners	210 W SAN BERNARDINO RD, COVINA, CA, 91723-1515	Citrus Valley Health Partners	210 W SAN BERNARDINO RD, Covina, CA, 91723-1515	Citrus Valley Health Partners	210 WEST SAN BERNARDINO ROAD, Covina, CA, 91723-1515

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000234			College Health Enterprises	11627 TELEGRAPH RD, Santa Fe Springs, CA, 90670-6814	College Health Enterprises	11627 TELEGRAPH ROAD, Santa Fe Springs, CA, 90670-6814
HSI00000244	Commonwealth Health Corp (Commonwealth Health Corporation)	800 PARK ST, BOWLING GREEN, KY, 42101-2356	Commonwealth Health Corporation	800 PK ST, Bowling Green, KY, 42101-2356	Commonwealth Health Corporation	800 PARK STREET, Bowling Green, KY, 42101-2356
HSI00000249	Community Health Systems, Inc	4000 MERIDIAN BLVD, FRANKLIN, TN, 37067-6325	Community Health System Inc	4000 MERIDIAN BLVD, Franklin, TN, 37067-6325	Community Health Systems, Inc.	4000 MERIDIAN BOULEVARD, Franklin, TN, 37067-6325
HSI00000250	Community HealthCare System	120 W 8TH ST, ONAGA, KS, 66521-9574	Community Healthcare System	120 W 8TH ST, Onaga, KS, 66521-9574		
HSI00000251	Community Hospital Corporation	7800 DALLAS PKWY, PLANO, TX, 75024-4082			Community Hospital Corporation	7800 NORTH DALLAS PARKWAY, Plano, TX, 75024-6116
HSI00000252	Community Hospitals and Wellness Centers	433 W HIGH ST, BRYAN, OH, 43506-1690	Community Hospitals And Wellness Centers	433 W HIGH ST, Bryan, OH, 43506-1690		
HSI00000255	Community Memorial Health System	147 N BRENT ST, VENTURA, CA, 93003-2809	Community Memorial Health System	147 N BRENT ST, Ventura, CA, 93003-2809	Community Memorial Health System	147 NORTH BRENT STREET, Ventura, CA, 93003-2809
HSI00000256	Community Memorial Healthcare, Inc	708 N 18TH ST, MARYSVILLE, KS, 66508-1338	Community Memorial Healthcare	708 N 18TH ST, Marysville, KS, 66508-1338		
HSI00000263	Cone Health	1200 N ELM ST, GREENSBORO, NC, 27401-1004	Cone Health	1200 N ELM ST, Greensboro, NC, 27401-1004		
HSI00000270	Contra Costa Health Services	2500 ALHAMBRA AVE, MARTINEZ, CA, 94553-3156	Contra Costa Health Services	50 DOUGLAS DR, Martinez, CA, 94553-4003		
HSI00000273	Cook Childrens Health Care System	801 7TH AVE, FORT WORTH, TX, 76104-2733	Cook Childrens Health Care System	801 7TH AVE, Fort Worth, TX, 76104-2733		
HSI00000274	Cook County Health and Hospital System	1900 W POLK ST, CHICAGO, IL, 60612-3723	Cook County Health & Hospitals System	1900 W POLK ST, Chicago, IL, 60612-3723	Cook County Health and Hospitals System	1900 WEST POLK STREET, Chicago, IL, 60612-3723

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000275	Cookeville Regional Health System	1 MEDICAL CENTER BLVD, COOKEVILLE, TN, 38501-4294	Cookeville Regional Health System	1 MEDICAL CENTER BLVD, Cookeville, TN, 38501-4294		
HSI00000278	Cornerstone Healthcare Group	2200 ROSS AVE, DALLAS, TX, 75201-7918	Cornerstone Healthcare Group	2200 ROSS AVE, Dallas, TX, 75201-7918	Cornerstone Healthcare Group	2200 ROSS AVENUE, Dallas, TX, 75201-7984
HSI00000285			Covenant Health	3615 19TH ST, Lubbock, TX, 79410-1209	Covenant Health System	3615 19TH STREET, Lubbock, TX, 79410-1203
HSI00000286	Covenant Health	100 FORT SANDERS WEST BLVD, KNOXVILLE, TN, 37922-3353	Covenant Health	100 FT SANDERS W BLVD, Knoxville, TN, 37922-3353	Covenant Health	100 FORT SANDERS WEST BOULEVARD, Knoxville, TN, 37922-3353
HSI00000287	Covenant Health Systems, Inc	100 AMES POND DR, TEWKSBURY, MA, 01876-1240	Covenant Health	100 AMES POND DR, Tewksbury, MA, 01876-1240	Covenant Health	100 AMES POND DRIVE, Tewksbury, MA, 01876-1240
HSI00000288	Covenant Medical Center, Inc (Covenant HealthCare)	1447 N HARRISON ST, SAGINAW, MI, 48602-4727	Covenant Healthcare	1447 N HARRISON ST, Saginaw, MI, 48602-4727		
HSI00000289	Covenant Ministries of Benevolence	5145 N CALIFORNIA AVE, CHICAGO, IL, 60625-3661	Covenant Ministries Benevolence	5145 N CALIFORNIA AVE, Chicago, IL, 60625-3661		
HSI00000290	Cox Medical Center	1423 N JEFFERSON AVE, SPRINGFIELD, MO, 65802-1917	Coxhealth	1423 N JEFFERSON AVE, Springfield, MO, 65802-1917	CoxHealth	1423 NORTH JEFFERSON AVENUE, Springfield, MO, 65802-1988
HSI00000291	Crisp Regional Health Service	902 N 7TH ST, CORDELE, GA, 31015-3234	Crsip Regional Health Services	902 N 7TH ST, Cordele, GA, 31015-3234		
HSI00000292	Crittenden Health Systems	520 W GUM ST, MARION, KY, 42064-1516	Crittenden Health Systems	520 W GUM ST, Marion, KY, 42064-1516		
HSI00000293	Crouse Health System	736 IRVING AVE, SYRACUSE, NY, 13210-1687	Crouse Hospital	736 IRVING AVE, Syracuse, NY, 13210-1690		

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000294			Crozer-Keystone Health System	100 W SPROUL RD, Springfield, PA, 19064-2033	Crozer-Keystone Health System	100 WEST SPROUL ROAD, Springfield, PA, 19064-2033
HSI00000295	Curae Health	121 LEINART ST, CLINTON, TN, 37716-3682			Curae Health	121 LEINART STREET, Clinton, TN, 37716-3632
HSI00000297	DCH Health System	809 UNIVERSITY BLVD E, TUSCALOOSA, AL, 35401-2029	DCH Healthcare System	809 UNIV BLVD E, Tuscaloosa, AL, 35401-2029	DCH Health System	809 UNIVERSITY BOULEVARD EAST, Tuscaloosa, AL, 35401-2029
HSI00000298	Dallas County Hospital District (Parkland Health and Hospital System)	5201 HARRY HINES BLVD, DALLAS, TX, 75235-7708	Parkland Health & Hospital System	5201 HARRY HINES BLVD, Dallas, TX, 75235-7708		
HSI00000299	Dartmouth-Hitchcock	1 MEDICAL CENTER DR, LEBANON, NH, 03756-1000	Dartmouth-Hitchcock Health System	1 MEDICAL CENTER DR, Lebanon, NH, 03756-1000		
HSI00000300	Davis Health System	812 GORMAN AVE, ELKINS, WV, 26241-3181	Davis Health System	PO BOX 1484, Elkins, WV, 26241-1484	Davis Health System	REED STREET AND GORMAN AVENUE, Elkins, WV, 26241
HSI00000304	DeKalb Medical Center, Inc	2701 N DECATUR RD, DECATUR, GA, 30033-5918	DeKalb Medical Health System	2701 N DECATUR RD, Decatur, GA, 30033-5918	DeKalb Regional Health System	2701 NORTH DECATUR ROAD, Decatur, GA, 30033-5918
HSI00000305	Deaconess Health System	600 MARY ST, EVANSVILLE, IN, 47710-1658	Deaconess Health System	600 MARY ST, Evansville, IN, 47710-1658	Deaconess Health System	600 MARY STREET, Evansville, IN, 47710-1658
HSI00000307	Denver Health and Hospital Authority (Denver Health)	777 BANNOCK ST, DENVER, CO, 80204-4507	Denver Health	777 BANNOCK ST, Denver, CO, 80204-4597		
HSI00000314	Dignity Health	185 BERRY ST, SAN FRANCISCO, CA, 94107-1773	Dignity Health	185 BERRY ST, San Francisco, CA, 94107-1773	Dignity Health	185 BERRY STREET, San Francisco, CA, 94107-1773
HSI00000315	Dimensions Healthcare System	3001 HOSPITAL DR, CHEVERLY, MD, 20785-1189	Dimensions Healthcare System	3001 HOSP DR, Hyattsville, MD, 20785-1189	Dimensions Healthcare System	3001 HOSPITAL DRIVE, 3RD FLOOR, Cheverly, MD, 20785-1189

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000322			Duke Lifepoint Healthcare	103 POWELL CT, Brentwood, TN, 37027-5079	Duke LifePoint Healthcare	103 POWELL COURT, Brentwood, TN, 37027-5079
HSI00000323	Duke University Health System	2301 ERWIN RD, DURHAM, NC, 27705-4699	Duke University Health System	615 DOUGLAS ST, Durham, NC, 27705-6616	Duke University Health System	201 TRENT DRIVE, Durham, NC, 27710-3037
HSI00000329	Eastern Connecticut Health Network	71 HAYNES ST, MANCHESTER, CT, 06040-4131	Eastern Connecticut Health Network	71 HAYNES ST, Manchester, CT, 06040-4131	Eastern Connecticut Health Network	71 HAYNES STREET, Manchester, CT, 06040-4131
HSI00000330	Eastern Maine Healthcare Systems	43 WHITING HILL RD, BREWER, ME, 04412-1005	Eastern Maine Healthcare System	43 WHITING HILL RD, Brewer, ME, 04412-1005	Eastern Maine Healthcare Systems	43 WHITING HILL ROAD, Brewer, ME, 04412-1005
HSI00000334	Edward Elmhurst Healthcare	801 S WASHINGTON ST, NAPERVILLE, IL, 60540-7430	Edward-Elmhurst Healthcare	801 S WASHINGTON ST, Naperville, IL, 60540-7430	Edward-Elmhurst Healthcare	801 SOUTH WASHINGTON STREET, Naperville, IL, 60540-7430
HSI00000338	Elliot Health System	1 ELLIOT WAY, MANCHESTER, NH, 03103-3502	Elliot Health System	1 ELLIOT WAY, Manchester, NH, 03103-3502		
HSI00000339	Ellis Medicine	1101 NOTT ST, SCHENECTADY, NY, 12308-2425	Ellis Medicine	1101 NOTT ST, Schenectady, NY, 12308-2425		
HSI00000342	Emory Healthcare, Inc	1440 CLIFTON RD NE, ATLANTA, GA, 30322-1053	Emory Healthcare	1365 CLIFTON RD NE, Atlanta, GA, 30322-1013	Emory Healthcare	1440 CLIFTON ROAD NE, Atlanta, GA, 30322-1102
HSI00000344	Endless Mountains Health Systems	100 HOSPITAL DR, MONTROSE, PA, 18801-6402	Endless Mountain Health Systems	25 GROW AVE, Montrose, PA, 18801-1106		
HSI00000346	Ephraim McDowell Health	217 S 3RD ST, DANVILLE, KY, 40422-1823	Ephraim Mcdowell Health System	217 S 3RD ST, Danville, KY, 40422-1823	Ephraim McDowell Health	217 SOUTH THIRD STREET, Danville, KY, 40422-1823
HSI00000348	Ernest Health, Inc	7770 JEFFERSON ST NE, ALBUQUERQUE, NM, 87109-4386	Ernest Health	7770 JEFFERSON ST NE, Albuquerque, NM, 87109-4386	Ernest Health, Inc.	7770 JEFFERSON STREET NE, Albuquerque, NM, 87109-4386
HSI00000349	Eskenazi Health	720 ESKENAZI AVE, INDIANAPOLIS, IN, 46202-5187	Eskenazi Health System	720 ESKENAZI AVE, Indianapolis, IN, 46202-5166		

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000350	Essentia Health	502 E 2ND ST, DULUTH, MN, 55805-1913	Essentia Health	400 E 3RD ST, Duluth, MN, 55805-1951	Essentia Health	502 EAST SECOND STREET, Duluth, MN, 55805-1913
HSI00000354	Excela Health	134 INDUSTRIAL PARK RD, GREENSBURG, PA, 15601-7328	Excela Health	134 INDUSTRIAL PK RD, Greensburg, PA, 15601-7843	Excela Health	532 WEST PITTSBURGH STREET, Greensburg, PA, 15601
HSI00000355	Exeter Health Resources, Inc	5 ALUMNI DR, EXETER, NH, 03833-2128	Exeter Health	5 ALUMNI DR, Exeter, NH, 03833-2128		
HSI00000357	Fairview Health Services	2450 RIVERSIDE AVE, MINNEAPOLIS, MN, 55454-1450	Fairview Health Services	2450 RIVERSIDE AVE, Minneapolis, MN, 55454-1450	Fairview Health Services	2450 RIVERSIDE AVENUE, Minneapolis, MN, 55454-1400
HSI00000358	Faith Regional Health Services	2700 W NORFOLK AVE, NORFOLK, NE, 68701-4438	Faith Regional Health Services	2700 W NORFOLK AVE, Norfolk, NE, 68701-4438	Faith Regional Health Services	2700 WEST NORFOLK AVENUE, Norfolk, NE, 68701-4438
HSI00000361	Fayette Regional Health System	1941 VIRGINIA AVE, CONNERSVILLE, IN, 47331-2833	Fayette Regional Health System	1941 VIRGINIA AVE FL 2, Connersville, IN, 47331-2833		
HSI00000365	FirstHealth of the Carolinas	155 MEMORIAL DR, PINEHURST, NC, 28374-8710	FirstHealth Of The Carolinas	PO BOX 3000, Pinehurst, NC, 28374-3000	FirstHealth of the Carolinas	155 MEMORIAL DRIVE, Pinehurst, NC, 28374-8710
HSI00000369	Floyd Healthcare Management, Inc (Floyd Medical Center)	304 TURNER MCCALL BLVD SW, ROME, GA, 30165-5621	Floyd Health Care	304 TURNER MCCALL BLVD SW, Rome, GA, 30165-5621		
HSI00000372	Fort HealthCare	611 SHERMAN AVE E, FORT ATKINSON, WI, 53538-1960	Fort Healthcare	611 SHERMAN AVE E, Fort Atkinson, WI, 53538-1960		
HSI00000373	Foundation Surgery Affiliates, LLC	14000 N PORTLAND AVE, OKLAHOMA CITY, OK, 73134-4004			Foundation Surgical Hospital Affiliates	14000 NORTH PORTLAND AVENUE, Oklahoma City, OK, 73134-4002

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000375	Franciscan Alliance, Inc	1515 W DRAGOON TRL, MISHAWAKA, IN, 46544-4710	Franciscan Alliance	1515 W DRAGOON TRL, Mishawaka, IN, 46544-4710	Franciscan Alliance	1515 DRAGOON TRAIL, Mishawaka, IN, 46544-4710
HSI00000376	Franciscan Missionaries of Our Lady Health System, Inc	4200 ESSEN LN, BATON ROUGE, LA, 70809-2158	Franciscan Missionaries Health	4200 ESSEN LN, Baton Rouge, LA, 70809-2158	Franciscan Missionaries of Our Lady Health System, Inc.	4200 ESSEN LANE, Baton Rouge, LA, 70809-2158
HSI00000380	Frederick Memorial Healthcare System	400 W 7TH ST, FREDERICK, MD, 21701-4506	Frederick Regional Health System	400 W 7TH ST, Frederick, MD, 21701-4506		
HSI00000381	Freeman Health System	1102 W 32ND ST, JOPLIN, MO, 64804-3503			Freeman Health System	1102 WEST 32ND STREET, Joplin, MO, 64804-3503
HSI00000382	Freeport Health Network	1045 W STEPHENSON ST, FREEPORT, IL, 61032-4864	Freeport Health Network	1045 W STEPHENSON ST, Freeport, IL, 61032-4864		
HSI00000386	Froedtert and The Medical College of Wisconsin	9200 W WISCONSIN AVE, MILWAUKEE, WI, 53226-3522	Froedtert Health	9200 W WISCONSIN AVE, Milwaukee, WI, 53226-3522		
HSI00000387	Fundamental Administrative Services	920 RIDGEBROOK RD, SPARKS, MD, 21152-9390	Fundamental	920 RIDGEBROOK RD, Sparks Glencoe, MD, 21152-9390	Fundamental Long Term Care Holdings, LLC	930 RIDGEBROOK ROAD, Sparks Glencoe, MD, 21152-9390
HSI00000388	Geisinger Health System	100 N ACADEMY AVE, DANVILLE, PA, 17822-9800	Geisinger Health System	100 N ACADEMY AVE, Danville, PA, 17822-9800	Geisinger Health System	100 NORTH ACADEMY AVENUE, Danville, PA, 17822-9800
HSI00000390	Genesis Health System	1227 E RUSHOLME ST, DAVENPORT, IA, 52803-2459	Genesis Health System	1227 E RUSHOLME ST, Davenport, IA, 52803-2459	Genesis Health System	1227 EAST RUSHOLME STREET, Davenport, IA, 52803-2498
HSI00000391	Genesis HealthCare System	2951 MAPLE AVE, ZANESVILLE, OH, 43701-1406	Genesis Health Care System	2951 MAPLE AVE, Zanesville, OH, 43701-1465		

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000402	Golden Valley Memorial District (Golden Valley Memorial Healthcare)	1600 N 2ND ST, CLINTON, MO, 64735-1192	Golden Valley Memorial Healthcare	1600 N 2ND ST, Clinton, MO, 64735-1192		
HSI00000406	Good Shepherd Health System	700 E MARSHALL AVE, LONGVIEW, TX, 75601-5580	Good Shepherd Health System	700 E MARSHALL AVE, Longview, TX, 75601-5580	Good Shepherd Health System	700 EAST MARSHALL AVENUE, Longview, TX, 75601-5580
HSI00000407	Good Shepherd Rehabilitation Network	850 S 5TH ST, ALLENTOWN, PA, 18103-3308			Good Shepherd Rehabilitation Network	850 SOUTH FIFTH STREET, Allentown, PA, 18103-3308
HSI00000412	Grady Health System	80 JESSE HILL JR DR SE, ATLANTA, GA, 30303-3031	Grady Health System	80 JESSE HILL JR DR SE, Atlanta, GA, 30303-3050		
HSI00000413	Grand Lake Health System	200 SAINT CLAIR AVE, SAINT MARYS, OH, 45885-2400	Grand Lake Health System	200 ST CLAIR AVE, Saint Marys, OH, 45885-2400		
HSI00000421	Great River Health Systems	1221 S GEAR AVE, WEST BURLINGTON, IA, 52655-1679	Great River Health Systems	1221 S GEAR AVE, West Burlington, IA, 52655-1679		
HSI00000423	Greater Hudson Valley Health System	707 E MAIN ST, MIDDLETOWN, NY, 10940-2650	Greater Hudson Valley Health System	707 E MAIN ST, Middletown, NY, 10940-2650	Greater Hudson Valley Health System	60 PROSPECT AVENUE, Middletown, NY, 10940-4133
HSI00000424	Greenville Health System	701 GROVE RD, GREENVILLE, SC, 29605-4210	Greenville Health System	701 GROVE RD, Greenville, SC, 29605-4210	Greenville Health System	701 GROVE ROAD, Greenville, SC, 29605-5611
HSI00000425	Griffin Health Services	130 DIVISION ST, DERBY, CT, 06418-1326	Griffin Health Services Corporation	130 DIV ST FL 3, Derby, CT, 06418-1326		
HSI00000428	Gundersen Health System	1900 SOUTH AVE, LA CROSSE, WI, 54601-5467	Gundersen Health System	1900 S AVE, La Crosse, WI, 54601-5467		
HSI00000431	Gwinnett Health System, Inc	1000 MEDICAL CENTER BLVD, LAWRENCEVILLE, GA, 30046-7694	Gwinnett Hospital System Inc	1000 MEDICAL CENTER BLVD, Lawrenceville, GA, 30046-7694		

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HSI00000440	Hackensack University Medical Center	30 PROSPECT AVE, HACKENSACK, NJ, 07601-1915	Hackensack University Health Network	30 PROSPECT AVE, Hackensack, NJ, 07601-1915		
HSI00000443	Hallmark Health System	585 LEBANON ST, MELROSE, MA, 02176-3225	Hallmark Health System	585 LEBANON ST, Melrose, MA, 02176-3225		
HSI00000444	Hamilton Health Care System, Inc	1200 MEMORIAL DR, DALTON, GA, 30720-2529	Hamilton Healthcare System	1200 MEM DR, Dalton, GA, 30720-2529		
HSI00000451	Harris Health System	2525 HOLLY HALL ST, HOUSTON, TX, 77054-4124	Harris Health System	2525 HOLLY HALL ST, Houston, TX, 77054-4124		
HSI00000452	Hartford Healthcare Corporation	1 STATE ST, HARTFORD, CT, 06103-3102	Hartford Healthcare	1 STATE ST, Hartford, CT, 06102	Hartford HealthCare	ONE STATE STREET, 19TH FLOOR, Hartford, CT, 06103
HSI00000454	Hawaii Health Systems Corporation	3675 KILAUEA AVE, HONOLULU, HI, 96816-2333	Hawaii Health Systems Corporation	3675 KILAUEA AVE, Honolulu, HI, 96816-2333	Hawaii Health Systems Corporation	3675 KILAUEA AVENUE, Honolulu, HI, 96816-2333
HSI00000455	Hawaii Pacific Health	55 MERCHANT ST, HONOLULU, HI, 96813-4306	Hawaii Pacific Health	55 MERCHANT ST FL 23, Honolulu, HI, 96813-4333	Hawaii Pacific Health	55 MERCHANT STREET, Honolulu, HI, 96813-4306
HSI00000461	Health First, Inc	6450 US HIGHWAY 1, ROCKLEDGE, FL, 32955-5747	Health First Inc	6450 US HWY 1, Rockledge, FL, 32955-5747	Health First, Inc.	6450 US HIGHWAY 1, Rockledge, FL, 32955-5747
HSI00000463	HealthEast Care System	559 CAPITOL BLVD, SAINT PAUL, MN, 55103-2101	Healtheast Care System	559 CAPITOL BLVD, Saint Paul, MN, 55103-2101	HealthEast Care System	559 CAPITOL BOULEVARD, 6-SOUTH, Saint Paul, MN, 55103-0000
HSI00000465	HealthTech Management Services, Inc	5110 MARYLAND WAY, BRENTWOOD, TN, 37027-2307			HealthTech Management Services	5110 MARYLAND WAY SUITE 200, Brentwood, TN, 37027-2307

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000466	Healthcare Authority for Baptist Health (Baptist Health)	301 BROWN SPRINGS RD, MONTGOMERY, AL, 36117-7005	Baptist Health	301 BROWN SPRINGS RD, Montgomery, AL, 36117-7005	Baptist Health	301 BROWN SPRINGS ROAD, Montgomery, AL, 36117-7005
HSI00000467	Healthcare Authority of Northern Alabama, LLC (Huntsville Hospital Health System)	6767 OLD MADISON PIKE NW, HUNTSVILLE, AL, 35806-2181	Huntsville Hospital Health System	101 SIVLEY RD SW, Huntsville, AL, 35801-4421	Huntsville Hospital Health System	101 SIVLEY ROAD SW, Huntsville, AL, 35801-4421
HSI00000469			Healthsouth Corporation	3660 GRANDVIEW PKWY, Birmingham, AL, 35243-3332	HEALTHSOUTH Corporation	3660 GRANDVIEW PARKWAY, Birmingham, AL, 35243-3332
HSI00000470	Hebrew SeniorLife	1200 CENTRE ST, ROSLINDALE, MA, 02131-1000	Hebrew SeniorLife	1200 CENTRE ST, Boston, MA, 02131-1000		
HSI00000471	Hendrick Health System	1900 PINE ST, ABILENE, TX, 79601-2432	Hendrick Health System	1900 PINE ST, Abilene, TX, 79601-2432		
HSI00000473	Hennepin Health Care System, Inc	701 PARK AVE, MINNEAPOLIS, MN, 55415-1623	Hennepin Healthcare System	701 PK AVE, Minneapolis, MN, 55415-1623		
HSI00000475	Henry Ford Health System	1 FORD PL, DETROIT, MI, 48202-3450	Henry Ford Health System	1 FORD PL, Detroit, MI, 48202-3450	Henry Ford Health System	ONE FORD PLACE, Detroit, MI, 48202-3450
HSI00000476	Heritage Valley Health System	1000 DUTCH RIDGE RD, BEAVER, PA, 15009-9727	Heritage Valley Health System	1000 DUTCH RIDGE RD, Beaver, PA, 15009-9727	Heritage Valley Health System	1000 DUTCH RIDGE ROAD, Beaver, PA, 15009-9727
HSI00000480	Highlands Health System	5000 KY ROUTE 321, PRESTONSBURG, KY, 41653-9113	Highlands Healthsystem	5000 KY ROUTE 321, Prestonsburg, KY, 41653-9113		
HSI00000484	Hoag Memorial Hospital Presbyterian	1 HOAG DR, NEWPORT BEACH, CA, 92663-4162	Hoag Health Network	1 HOAG DR, Newport Beach, CA, 92663-4162		

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000487	Holy Family Memorial, Inc (Holy Family Memorial)	2300 WESTERN AVE, MANITOWOC, WI, 54220-3712	Franciscan Sisters Christian Of Charitys Sponsored Ministries	1415 S RAPIDS RD, Manitowoc, WI, 54220-9302	Franciscan Sisters of Christian Charity Sponsored Ministries, Inc.	1415 SOUTH RAPIDS ROAD, Manitowoc, WI, 54220-9302
HSI00000488	Holy Redeemer Health System	667 WELSH RD, HUNTINGDON VALLEY, PA, 19006-6309	Holy Redeemer Health Systems	667 WELSH RD, Huntingdon Valley, PA, 19006-6308		
HSI00000490	Holzer Health System	100 JACKSON PIKE, GALLIPOLIS, OH, 45631-1560	Holzer Health System	100 JACKSON PIKE, Gallipolis, OH, 45631-1560		
HSI00000491	HonorHealth	8125 N HAYDEN RD, SCOTTSDALE, AZ, 85258-2463	HonorHealth	8125 N HAYDEN RD, Scottsdale, AZ, 85258-2463	HonorHealth	8125 NORTH HAYDEN ROAD, Scottsdale, AZ, 85258-2463
HSI00000497	Houston Healthcare	1601 WATSON BLVD, WARNER ROBINS, GA, 31093-3431	Houston Healthcare	1601 WATSON BLVD, Warner Robins, GA, 31093-3431	Houston Healthcare System	1601 WATSON BOULEVARD, Warner Robins, GA, 31093-3431
HSI00000498	Howard University Hospital	2041 GEORGIA AVE NW, WASHINGTON, DC, 20060-0001	Howard University Hospital	2041 GEORGIA AVE NW, Washington, DC, 20060-0002		
HSI00000501	Hunt Regional Healthcare	4215 JOE RAMSEY BLVD E, GREENVILLE, TX, 75401-7852			Hunt Regional Healthcare	4215 JOE RAMSEY BOULEVARD, Greenville, TX, 75401-7852
HSI00000502	Hunterdon Healthcare System	2100 WESCOTT DR, FLEMINGTON, NJ, 08822-4603	Hunterdon Healthcare System	2100 WESCOTT DR, Flemington, NJ, 08822-4603		
HSI00000506	IASIS Healthcare Corporation	117 SEABOARD LN, FRANKLIN, TN, 37067-2855	IASIS Healthcare Corporation	117 SEABOARD LN, Franklin, TN, 37067-2855	IASIS Healthcare	117 SEABOARD LANE, BUILDING E, Franklin, TN, 37067-2855
HSI00000507	INTEGRIS Health	3301 NW EXPRESSWAY, OKLAHOMA CITY, OK, 73112-4417	Integris Health	3366 NW EXPY, Oklahoma City, OK, 73112-4458	INTEGRIS Health	3366 NW EXPRESSWAY, Oklahoma City, OK, 73112-9756

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000508	Indian Health Service	801 THOMPSON AVE, ROCKVILLE, MD, 20852-1627	Indian Health Services	801 THOMPSON AVE, Rockville, MD, 20852-1627	U. S. Indian Health Service	801 THOMPSON AVENUE, Rockville, MD, 20852-1627
HSI00000510	Indiana University Health	340 W 10TH ST, INDIANAPOLIS, IN, 46202-3082	Indiana University Health	340 W 10TH ST, Indianapolis, IN, 46202-3082	Indiana University Health	340 WEST 10TH STREET, Indianapolis, IN, 46202-3082
HSI00000512	Ingalls Health System	71 W 156TH ST, HARVEY, IL, 60426-4260	Ingalls Health System	1 INGALLS DR, Harvey, IL, 60426-3558		
HSI00000513	Inova Health System	8110 GATEHOUSE RD, FALLS CHURCH, VA, 22042-1252	Inova Health System	8110 GATEHOUSE RD, Falls Church, VA, 22042-1217	Inova Health System	8110 GATEHOUSE ROAD, Falls Church, VA, 22042-1252
HSI00000516	Intermountain Healthcare	36 S STATE ST, SALT LAKE CITY, UT, 84111-1401	Intermountain Healthcare	36 S STATE ST, Salt Lake City, UT, 84111-1401	Intermountain Healthcare, Inc.	36 SOUTH STATE STREET, 22ND FLOOR, Salt Lake City, UT, 84111-1453
HSI00000518	Iredell Health System	557 BROOKDALE DR, STATESVILLE, NC, 28677-4107	Iredell Health System	557 BROOKDALE DR, Statesville, NC, 28677-4107		
HSI00000523	Jackson Health System	1611 NW 12TH AVE, MIAMI, FL, 33136-1005	Jackson Health System	1611 NW 12TH AVE, Miami, FL, 33136-1005		
HSI00000525	Jefferson Health	259 N RADNOR CHESTER RD, RADNOR, PA, 19087-5269			Jefferson Health	259 RADNOR-CHESTER ROAD, Radnor, PA, 19087-5288
HSI00000530	John Muir Health	1400 TREAT BLVD, WALNUT CREEK, CA, 94597-2142	John Muir Health System	1400 TREAT BLVD, Walnut Creek, CA, 94597-2142	John Muir Health	1400 TREAT BOULEVARD, Walnut Creek, CA, 94597-2142
HSI00000535	KPC Healthcare, Inc	1301 N TUSTIN AVE, SANTA ANA, CA, 92705-8619	Integrated Healthcare Holdings	1301 N TUSTIN AVE, Santa Ana, CA, 92705-8619	KPC Healthcare, Inc.	1301 NORTH TUSTIN AVENUE, Santa Ana, CA, 92705-8619
HSI00000538	Kalispell Regional Healthcare	310 SUNNYVIEW LN, KALISPELL, MT, 59901-3129	Kalispell Regional Healthcare	310 SUNNYVIEW LN, Kalispell, MT, 59901-3129		

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000540	Kaweah Delta Health Care District	400 W MINERAL KING AVE, VISALIA, CA, 93291-6237	Kaweah Delta Healthcare District	400 W MINERAL KING AVE, Visalia, CA, 93291-6237		
HSI00000541	Kennedy Health System	1099 WHITE HORSE RD, VOORHEES, NJ, 08043-4405	Kennedy Health System	1099 WHITE HORSE RD, Voorhees, NJ, 08043-4405		
HSI00000545	KershawHealth	1315 ROBERTS ST, CAMDEN, SC, 29020-3737	Kershaw Health	1315 ROBERTS ST, Camden, SC, 29020-3737		
HSI00000546	Kettering Health Network	3535 SOUTHERN BLVD, KETTERING, OH, 45429-1221	Kettering Health Network	3535 SO BLVD, Dayton, OH, 45429-1221	Kettering Health Network	3965 SOUTHERN BOULEVARD, Dayton, OH, 45429-1229
HSI00000548	Kindred Healthcare, Inc	680 S 4TH ST, LOUISVILLE, KY, 40202-2407	Kindred Healthcare	680 S 4TH ST, Louisville, KY, 40202-2407	Kindred Healthcare	680 SOUTH FOURTH STREET, Louisville, KY, 40202-2412
HSI00000553	Kootenai Health	2003 KOOTENAI HEALTH WAY, COEUR D ALENE, ID, 83814-6051	Kootenai Health	2003 KOOTENAI HLTH WAY, Coeur D Alene, ID, 83814-6051		
HSI00000554	Kuakini Health System	347 N KUAKINI ST, HONOLULU, HI, 96817-2336	Kuakini Health System	347 N KUAKINI ST, Honolulu, HI, 96817-2382		
HSI00000557	LHP Hospital Group, Inc	2800 DALLAS PKWY, PLANO, TX, 75093-5994	LHP Hospital Group	2400 DALLAS PKWY, Plano, TX, 75093-4373	LHP Hospital Group	2400 NORTH DALLAS PARKWAY, Plano, TX, 75093-5994
HSI00000558	LRG Healthcare	80 HIGHLAND ST, LACONIA, NH, 03246-3235	Lakes Region General Healthcare	80 HIGHLAND ST, Laconia, NH, 03246-3235	LRG Healthcare	80 HIGHLAND STREET, Laconia, NH, 03246-3298
HSI00000562	Lafayette General Health	1214 COOLIDGE BLVD, LAFAYETTE, LA, 70503-2621	Lafayette General Health	1214 COOLIDGE BLVD, Lafayette, LA, 70503-2621	Lafayette General Health	1214 COOLIDGE BOULEVARD, Lafayette, LA, 70503-2621

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000564	Lake Charles Memorial Health System	1701 OAK PARK BLVD, LAKE CHARLES, LA, 70601-8911	Lake Charles Memorial Health System	1701 OAK PK BLVD, Lake Charles, LA, 70601-8911		
HSI00000568	Lake Regional Health System	54 HOSPITAL DR, OSAGE BEACH, MO, 65065-3050	Lake Regional Health System	54 HOSP DR, Osage Beach, MO, 65065-3050		
HSI00000569	Lakeland Regional Health System	1324 LAKELAND HILLS BLVD, LAKELAND, FL, 33805-4543	Lakeland Regional Health System	1324 LAKELAND HILLS BLVD, Lakeland, FL, 33805-4543		
HSI00000570	Lakeland Regional Health System	1234 NAPIER AVE, SAINT JOSEPH, MI, 49085-2112	Lakeland Regional Health System	1234 NAPIER AVE, Saint Joseph, MI, 49085-2112	Lakeland Health	1234 NAPIER AVENUE, Saint Joseph, MI, 49085-2158
HSI00000571	Lakewood Health System	49725 COUNTY 83, STAPLES, MN, 56479-5280	Lakewood Health System	49725 CNTY 83, Staples, MN, 56479-5280		
HSI00000574	Lawrence and Memorial Hospital	365 MONTAUK AVE, NEW LONDON, CT, 06320-4700			L+M Healthcare	365 MONTAUK AVENUE, New London, CT, 06320-4700
HSI00000576	Legacy Health	1919 NW LOVEJOY ST, PORTLAND, OR, 97209-1503	Legacy Health System	1919 NW LOVEJOY ST, Portland, OR, 97209-1503	Legacy Health	1919 NW LOVEJOY STREET, Portland, OR, 97209-1503
HSI00000579	Lexington Medical Center	2720 SUNSET BLVD, WEST COLUMBIA, SC, 29169-4810	Lexington Medical Center	2720 SUNSET BLVD, West Columbia, SC, 29169-4810		
HSI00000581	Licking Memorial Health Systems	1320 W MAIN ST, NEWARK, OH, 43055-1822	Licking Memorial Health System	1320 W MAIN ST, Newark, OH, 43055-1822		
HSI00000582	LifeBridge Health, Inc	2401 W BELVEDERE AVE, BALTIMORE, MD, 21215-5216	Lifebridge Health	2401 W BELVEDERE AVE, Baltimore, MD, 21215-5216	LifeBridge Health	2401 WEST BELVEDERE AVENUE, Baltimore, MD, 21215-5216
HSI00000583	LifeCare Management Services, LLC	5340 LEGACY DR, PLANO, TX, 75024-3131	LifeCare Hospitals Management Services	5340 LEGACY DR, Plano, TX, 75024-3178	LifeCare Management Services	5340 LEGACY DRIVE, Plano, TX, 75024-3131

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000584	LifePoint Health	330 SEVEN SPRINGS WAY, BRENTWOOD, TN, 37027-5098	LifePoint Health	330 SEVEN SPRINGS WAY, Brentwood, TN, 37027-5098	LifePoint Health	330 SEVEN SPRINGS WAY, Brentwood, TN, 37027-4536
HSI00000586	Lima Memorial Health System	1001 BELLEFONTAINE AVE, LIMA, OH, 45804-2800	Lima Memorial Health System	1001 BELLEFONTAINE AVE, Lima, OH, 45804-2800		
HSI00000590	Little River Healthcare System	1700 BRAZOS AVE, ROCKDALE, TX, 76567-2517	Little River Healthcare	1700 BRAZOS AVE, Rockdale, TX, 76567-2517		
HSI00000608	Main Line Health	130 S BRYN MAWR AVE, BRYN MAWR, PA, 19010-3121	Main Line Health	130 S BRYN MAWR AVE, Bryn Mawr, PA, 19010-3121	Main Line Health	130 SOUTH BRYN MAWR AVENUE, Bryn Mawr, PA, 19010-3121
HSI00000611	MaineHealth	110 FREE ST, PORTLAND, ME, 04101-3908	MaineHealth	110 FREE ST, Portland, ME, 04101-3576	MaineHealth	110 FREE STREET, Portland, ME, 04101-3537
HSI00000615	Maricopa Integrated Health System	2601 E ROOSEVELT ST, PHOENIX, AZ, 85008-4973	Maricopa Integrated Health System	2601 E ROOSEVELT ST, Phoenix, AZ, 85008-4973		
HSI00000621	Marshfield Clinic	1000 N OAK AVE, MARSHFIELD, WI, 54449-5703	Marshfield Clinic Health System	1000 N OAK AVE, Marshfield, WI, 54449-5703		
HSI00000624	Mary Washington Healthcare	2300 FALL HILL AVE, FREDERICKSBURG, VA, 22401-3343	Mary Washington Healthcare	1001 SAM PERRY BLVD, Fredericksburg, VA, 22401-4453	Mary Washington Healthcare	2300 FALL HILL AVENUE, Fredericksburg, VA, 22401-3343
HSI00000626	Masonicare	22 MASONIC AVE, WALLINGFORD, CT, 06492-3048	Masonicare	22 MASONIC AVE, Wallingford, CT, 06492-3048		
HSI00000630	Maury Regional Medical Center	1224 TROTWOOD AVE, COLUMBIA, TN, 38401-4802	Maury Regional Medical Center Management	1224 TROTWOOD AVE, Columbia, TN, 38401-4802	Maury Regional Health System	1224 TROTWOOD AVENUE, Columbia, TN, 38401-4802
HSI00000631	Mayo Clinic	200 1ST ST SW, ROCHESTER, MN, 55905-0001	Mayo Clinic	200 1ST ST SW, Rochester, MN, 55905-0002	Mayo Clinic	200 FIRST STREET SW, Rochester, MN, 55905-0002

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000636	McLaren Health Care Corp	3235 BEECHER RD, FLINT, MI, 48532	Mclaren Health Care	3235 BEECHER RD, Flint, MI, 48532	McLaren Health Care Corporation	G3235 BEECHER ROAD, Flint, MI, 48532-3650
HSI00000639	Meadville Medical Center	751 LIBERTY ST, MEADVILLE, PA, 16335-2559			Meadville Medical Center	751 LIBERTY STREET, Meadville, PA, 16335-2559
HSI00000640	MedStar Health	5565 STERRETT PL, COLUMBIA, MD, 21044-2665	Medstar Health	5565 STERRETT PL, Columbia, MD, 21044-2679	MedStar Health	5565 STERRETT PLACE, 5TH FLOOR, Columbia, MD, 21044-2665
HSI00000642	MediSys Health Network	8900 VAN WYCK EXPY, JAMAICA, NY, 11418-2832			MediSys Health Network	8900 VAN WYCK EXPRESSWAY, Jamaica, NY, 11418-2832
HSI00000644	Medical University of South Carolina Medical Center (MUSC Health)	169 ASHLEY AVE, CHARLESTON, SC, 29425-8905	Medical University South Carolina	171 ASHLEY AVE, Charleston, SC, 29425-0100		
HSI00000647	Memorial Health Care Systems	300 N COLUMBIA AVE, SEWARD, NE, 68434-2228	Memorial Health Care Systems	300 N COLUMBIA AVE, Seward, NE, 68434-2228		
HSI00000648	Memorial Health System	701 N 1ST ST, SPRINGFIELD, IL, 62781-0001	Memorial Health System	701 N 1ST ST, Springfield, IL, 62781-0001	Memorial Health System	701 NORTH FIRST STREET, Springfield, IL, 62781-0001
HSI00000649	Memorial Health System	401 MATTHEW ST, MARIETTA, OH, 45750-1635	Memorial Health System	401 MATTHEW ST, Marietta, OH, 45750-1635	Memorial Health System	401 MATTHEW STREET, Marietta, OH, 45750-1635
HSI00000653	Memorial Healthcare System	3111 STIRLING RD, HOLLYWOOD, FL, 33021	Memorial Healthcare System	3501 JOHNSON ST, Hollywood, FL, 33021-5487	Memorial Healthcare System	3501 JOHNSON STREET, Hollywood, FL, 33021-5421
HSI00000654	Memorial Hermann Healthcare System	929 GESSNER RD, HOUSTON, TX, 77024-2593	Memorial Hermann Healthcare System	929 GESSNER RD, Houston, TX, 77024-2593	Memorial Hermann Health System	929 GESSNER, Houston, TX, 77024-2593
HSI00000658	MemorialCare Health System	17360 BROOKHURST ST, FOUNTAIN VALLEY, CA, 92708-3720	MemorialCare Health System	17360 BROOKHURST ST, Fountain Valley, CA, 92708-3720	MemorialCare	17360 BROOKHURST STREET, Fountain Valley, CA, 92708-3720

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000667	Mercy Rockford Health System (Mercyhealth)	2400 N ROCKTON AVE, ROCKFORD, IL, 61103-3655	MercyRockford Health System	1000 MINERAL POINT AVE, Janesville, WI, 53548-2940	Mercy Health System	1000 MINERAL POINT AVENUE, Janesville, WI, 53548-2940
HSI00000670	Meriter UnityPoint Health	202 S PARK ST, MADISON, WI, 53715-1507	Meriter-Unity Point	202 S PK ST, Madison, WI, 53715-1507		
HSI00000671	Meritus Health	11116 MEDICAL CAMPUS RD, HAGERSTOWN, MD, 21742-6710	Meritus Health	11116 MED CMPUS RD, Hagerstown, MD, 21742-6710		
HSI00000672	Methodist Health System	8511 W DODGE RD, OMAHA, NE, 68114-3403	Methodist Health System	8511 W DODGE RD, Omaha, NE, 68114-3403	Nebraska Methodist Health System, Inc.	8511 WEST DODGE ROAD, Omaha, NE, 68114-3403
HSI00000673	Methodist Health System	1441 N BECKLEY AVE, DALLAS, TX, 75203-1201	Methodist Health System	1441 N BECKLEY AVE, Dallas, TX, 75203-1201	Methodist Health System	1441 NORTH BECKLEY AVENUE, Dallas, TX, 75203-1201
HSI00000675	Methodist Le Bonheur Healthcare	1211 UNION AVE, MEMPHIS, TN, 38104-6600	Methodist Healthcare	1211 UNION AVE, Memphis, TN, 38104-6600	Methodist Le Bonheur Healthcare	1211 UNION AVENUE, Memphis, TN, 38104-6600
HSI00000676	Metro Health	5900 BYRON CENTER AVE SW, WYOMING, MI, 49519-9606	Metro Health	5900 BYRON CTR AVE SW, Wyoming, MI, 49519-9686		
HSI00000682	MidMichigan Health	4000 WELLNESS DR, MIDLAND, MI, 48670-2000	MidMichigan Health	4000 WELLNESS DR, Midland, MI, 48670-2000	MidMichigan Health	4000 WELLNESS DRIVE, Midland, MI, 48670-0001
HSI00000686	Millcreek Health System	5515 PEACH ST, ERIE, PA, 16509-2603	Lecom Health	5515 PEACH ST, Erie, PA, 16509-2603		
HSI00000687	Mille Lacs Health System	200 ELM ST N, ONAMIA, MN, 56359-7901	Mille Lacs Health System	200 ELM ST N, Onamia, MN, 56359-7901		
HSI00000691	Mission Health System	509 BILTMORE AVE, ASHEVILLE, NC, 28801-4601	Mission Health System	509 BILTMORE AVE, Asheville, NC, 28801-4601	Mission Health System	509 BILTMORE AVENUE, Asheville, NC, 28801-4601

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000692	Mississippi Baptist Health Systems, Inc	1225 N STATE ST, JACKSON, MS, 39202-2064	Baptist Health Systems	1225 N STATE ST, Jackson, MS, 39202-2064	Baptist Health Systems	1225 NORTH STATE STREET, Jackson, MS, 39202-2064
HSI00000697	Mohawk Valley Network, Inc	1656 CHAMPLIN AVE, UTICA, NY, 13502-4830	Mohawk Valley Health System	1656 CHAMPLIN AVE, Utica, NY, 13502-4830		
HSI00000700	Montefiore Medical Center	111 E 210TH ST, BRONX, NY, 10467-2401	Montefiore Health System	111 E 210TH ST, Bronx, NY, 10467-2401	Montefiore Health System	111 EAST 210TH STREET, Bronx, NY, 10467-2490
HSI00000705	Mosaic Life Care	5325 FARAON ST, SAINT JOSEPH, MO, 64506-3488	Mosaic Life Care	5325 FARAON ST, Saint Joseph, MO, 64506-3488		
HSI00000711	Mount Sinai Health System	1 GUSTAVE L LEVY PL, NEW YORK, NY, 10029-6504	Mount Sinai Health System	1 GUSTAVE L LEVY PL FL 12, New York, NY, 10029-6500	Mount Sinai Health System	ONE GUSTAVE L. LEVY PLACE, New York, NY, 10029
HSI00000713	Mountain States Health Alliance	400 N STATE OF FRANKLIN RD, JOHNSON CITY, TN, 37604-6035	Mountain States Health Alliance	400 N STATE OF FRANKLIN RD, Johnson City, TN, 37604-6035	Mountain States Health Alliance	400 NORTH STATE OF FRANKLIN ROAD, Johnson City, TN, 37604-6035
HSI00000714	MultiCare Health System	315 MARTIN LUTHER KING JR WAY, TACOMA, WA, 98405-4234	Multicare Health System	315 MARTIN LUTHER KING JR WAY, Tacoma, WA, 98405-4234	MultiCare Health System	315 MARTIN LUTHER KING JR WAY, Tacoma, WA, 98405-4234
HSI00000715	Munson Heallth Care Charlevoix Hospital (Munson HealthCare)	14700 LAKE SHORE DR, CHARLEVOIX, MI, 49720-1931	Munson Healthcare System	1105 6TH ST, Traverse City, MI, 49684-2349	Munson Healthcare	1105 SIXTH STREET, Traverse City, MI, 49684-2386
HSI00000716	NCH Healthcare System	350 7TH ST N, NAPLES, FL, 34102-5754	NCH Healthcare System	350 7TH ST N, Naples, FL, 34102-5754		
HSI00000717	NYU Langone Medical Center	550 1ST AVE, NEW YORK, NY, 10016-6402	NYU Langone Medical Center	530 1ST AVE, New York, NY, 10016-6402		
HSI00000719	Nash Health Care System	2460 CURTIS ELLIS DR, ROCKY MOUNT, NC, 27804-2237	Nash UNC Health Care	2460 CURTIS ELLIS DR, Rocky Mount, NC, 27804-2237		

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000721	National Surgical Hospitals, Inc	250 S WACKER DR, CHICAGO, IL, 60606-5897	National Surgical Hospitals	250 S WACKER DR, Chicago, IL, 60606-5897	National Surgical Healthcare	250 SOUTH WACKER DRIVE, Chicago, IL, 60606-5897
HSI00000724	Navicent Health	777 HEMLOCK ST, MACON, GA, 31201-2102	Navicent Health	777 HEMLOCK ST, Macon, GA, 31201-2102	Navicent Health	777 HEMLOCK STREET, MSC 105, Macon, GA, 31201-2155
HSI00000725	Nemours Childrens Health System	10140 CENTURION PKWY N, JACKSONVILLE, FL, 32256-0532	Nemours Children's Health System	10140 CENTURION PKWY N, Jacksonville, FL, 32256-0532	Nemours	10140 CENTURION PARKWAY NORTH, Jacksonville, FL, 32256-0532
HSI00000728			New Hanover Regional Medical Center	2131 S 17TH ST, Wilmington, NC, 28401-7407	New Hanover Regional Medical Center	2131 SOUTH 17TH STREET, Wilmington, NC, 28401-7407
HSI00000737	Niagara Falls Memorial Medical Center	621 10TH ST, NIAGARA FALLS, NY, 14301-1813	Niagara Falls Memorial Medical Center	621 10TH ST, Niagara Falls, NY, 14301-1813		
HSI00000738	Nicholas H Noyes Memorial Hospital	111 CLARA BARTON ST, DANSVILLE, NY, 14437-9503	Noyes Health	111 CLARA BARTON ST, Dansville, NY, 14437-9503		
HSI00000742	Noland Health Services, Inc	600 CORPORATE PKWY, BIRMINGHAM, AL, 35242-5451	Noland Health Services	600 CORPORATE PKWY, Birmingham, AL, 35242-5451	Noland Health Services, Inc.	600 CORPORATE PARKWAY, Birmingham, AL, 35242-5451
HSI00000743	Norman Regional Health System	901 N PORTER AVE, NORMAN, OK, 73071-6404	Norman Regional Health System	901 N PORTER AVE, Norman, OK, 73071-6404		
HSI00000745	North Broward Hospital District (Broward Health)	1800 NW 49TH ST, FORT LAUDERDALE, FL, 33309-3092	Broward Health	303 SE 17TH ST, Fort Lauderdale, FL, 33316-2523	Broward Health	303 SE 17TH STREET, Fort Lauderdale, FL, 33316-2523
HSI00000749	North Memorial Health Care	3300 OAKDALE AVE N, ROBBINSDALE, MN, 55422-2926	North Memorial Health Care	3300 OAKDALE AVE N, Robbinsdale, MN, 55422-2900	North Memorial Health Care	3300 OAKDALE AVENUE NORTH, Robbinsdale, MN, 55422-2926

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000750	North Mississippi Health Services	830 S GLOSTER ST, TUPELO, MS, 38801-4934	North Mississippi Health Services	830 S GLOSTER ST, Tupelo, MS, 38801-4934	North Mississippi Health Services, Inc.	830 SOUTH GLOSTER STREET, Tupelo, MS, 38801-4996
HSI00000756	NorthShore University Health System	1301 CENTRAL ST, EVANSTON, IL, 60201-1613	Northshore University Health System	2650 RIDGE AVE, Evanston, IL, 60201-1718		
HSI00000759	Northeast Georgia Health System, Inc	743 SPRING ST NE, GAINESVILLE, GA, 30501-3715	Northeast Georgia Health System	743 SPG ST NE, Gainesville, GA, 30501-3715		
HSI00000760	Northeast Montana Health Services, Inc	315 KNAPP ST, WOLF POINT, MT, 59201-1826	North East Montana Health Services	315 KNAPP ST, Wolf Point, MT, 59201-1826		
HSI00000761	Northern Arizona Healthcare	1200 S BEAVER ST, FLAGSTAFF, AZ, 86011-9802	Northern Arizona Healthcare	1200 N BEAVER ST, Flagstaff, AZ, 86001-3118	Northern Arizona Healthcare	1200 NORTH BEAVER STREET, Flagstaff, AZ, 86001-3118
HSI00000766	Northside Hospital, Inc	1000 JOHNSON FERRY RD, ATLANTA, GA, 30342-1606	Northside Hospital Healthcare System	1000 JOHNSON FERRY RD, Atlanta, GA, 30342-1606	Northside Healthcare System	1000 JOHNSON FERRY ROAD NE, Atlanta, GA, 30342-1611
HSI00000770	Northwestern Medicine	251 E HURON ST, CHICAGO, IL, 60611-2908	Northwestern Medicine	251 E HURON ST, Chicago, IL, 60611-2908	Northwestern Memorial Healthcare	251 EAST HURON STREET, Chicago, IL, 60611-2908
HSI00000773	Novant Health, Inc	2085 FRONTIS PLAZA BLVD, WINSTON SALEM, NC, 27103-5614	Novant Health	2085 FRONTIS PLZ BLVD, Winston Salem, NC, 27103-5614	Novant Health	2085 FRONTIS PLAZA BOULEVARD, Winston Salem, NC, 27103-5614
HSI00000774	NuHealth	2201 HEMPSTEAD TPKE, EAST MEADOW, NY, 11554-1859	NuHealth	2201 HEMPSTEAD TPKE FL 19, East Meadow, NY, 11554-1859		
HSI00000776	OSF HealthCare System	800 NE GLEN OAK AVE, PEORIA, IL, 61603-3255	OSF Healthcare	800 NE GLEN OAK AVE, Peoria, IL, 61603-3200	OSF Healthcare System	800 NE GLEN OAK AVENUE, Peoria, IL, 61603-3200
HSI00000780	Ochsner Health System	1514 JEFFERSON HWY, NEW ORLEANS, LA, 70121-2429	Ochsner Health System	1514 JEFFERSON HWY, New Orleans, LA, 70121-2429	Ochsner Health System	1514 JEFFERSON HIGHWAY, New Orleans, LA, 70121-2429

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000781			Oconee Regional Health System	821 N COBB ST, Milledgeville, GA, 31061-2343	Oconee Regional Health Systems	821 NORTH COBB STREET, Milledgeville, GA, 31061-2343
HSI00000783	Ohio Valley Health Services and Education Corporation	2000 EOFF ST, WHEELING, WV, 26003-3823	Ohio Valley Health Services & Education Corporation	2000 EOFF ST, Wheeling, WV, 26003-3823	Ohio Valley Health Services and Education Corporation	2000 EOFF STREET, Wheeling, WV, 26003-3823
HSI00000784	OhioHealth	180 E BROAD ST, COLUMBUS, OH, 43215-3707	OhioHealth	180 E BROAD ST FL 34, Columbus, OH, 43215-3707	OhioHealth	180 EAST BROAD STREET, Columbus, OH, 43215-3707
HSI00000788	Olathe Health System	20333 W 151ST ST, OLATHE, KS, 66061-5350	Olathe Health System Inc	20333 W 151ST ST, Olathe, KS, 66061-5350		
HSI00000792	Oneida Healthcare	321 GENESEE ST, ONEIDA, NY, 13421-2611	Oneida Healthcare Center	321 GENESEE ST, Oneida, NY, 13421-2611		
HSI00000793	Optim Healthcare	210 E DE RENNE AVE, SAVANNAH, GA, 31405-6736	Optim Healthcare	210 E DE RENNE AVE, Savannah, GA, 31405-6736		
HSI00000795	Oregon Health and Science University	3181 SW SAM JACKSON PARK RD, PORTLAND, OR, 97239-3011	Oregon Health & Science University	3181 SW SAM JACKSON PK RD, Portland, OR, 97239-3011		
HSI00000796	Orlando Health	65 STURTEVANT ST, ORLANDO, FL, 32806-2016	Orlando Health	1414 KUHL AVE, Orlando, FL, 32806-2008	Orlando Health	1414 KUHL AVENUE, Orlando, FL, 32806-2093
HSI00000798	Oswego Health	110 W 6TH ST, OSWEGO, NY, 13126-2507	Oswego Health System	110 W 6TH ST, Oswego, NY, 13126-2507		
HSI00000805			PIH Health	12401 WASHINGTON BLVD, Whittier, CA, 90602-1006	PIH Health	12401 WASHINGTON BOULEVARD, Whittier, CA, 90602-1006

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000809	Palomar Health	15255 INNOVATION DR, SAN DIEGO, CA, 92128-3400	Palomar Health	15255 INNOVATION DR, Escondido, CA, 92025	Palomar Health	456 EAST GRAND AVENUE, Escondido, CA, 92025-3319
HSI00000811	Parkview Health System	10501 CORPORATE DR, FORT WAYNE, IN, 46845-1700	Parkview Health System	10501 CORPORATE DR, Fort Wayne, IN, 46845-1700	Parkview Health	10501 CORPORATE DRIVE, Fort Wayne, IN, 46845-1700
HSI00000813	Partners HealthCare System, Inc	800 BOYLSTON ST, BOSTON, MA, 02199-8123	Partners Healthcare System	800 BOYLSTON ST, Boston, MA, 02199-8123	Partners HealthCare System, Inc.	800 BOYLSTON STREET, Boston, MA, 02199-8123
HSI00000814	PeaceHealth	1115 SE 164TH AVE, VANCOUVER, WA, 98683-9324	Peacehealth	1115 SE 164TH AVE, Vancouver, WA, 98683-9324	PeaceHealth	1115 SE 164TH AVENUE, Vancouver, WA, 98683
HSI00000820	Penn Medicine (University of Pennsylvania Health System)	3400 CIVIC CENTER BLVD, PHILADELPHIA, PA, 19104-5127	University Of Pennsylvania Health System	3400 SPRUCE ST, Philadelphia, PA, 19104-4238	University of Pennsylvania Health System	3400 CIVIC CENTER BOUELVARD, Philadelphia, PA, 19104-5127
HSI00000823	Phoebe Putney Health Systems	417 W 3RD AVE, ALBANY, GA, 31701-1943	Phoebe Putney Health System	417 W 3RD AVE, Albany, GA, 31701-1943	Phoebe Putney Health System	417 THIRD AVENUE, Albany, GA, 31701-1943
HSI00000825	Physicians for Healthy Hospitals, Inc	1117 E DEVONSHIRE AVE, HEMET, CA, 92543-3083	Physicians For Healthy Hospitals	1117 E DEVONSHIRE AVE, Hemet, CA, 92543-3083	Physicians for Healthy Hospitals	1117 EAST DEVONSHIRE AVENUE, Hemet, CA, 92543-3083
HSI00000829	Pioneer Health Services	110 PIONEER WAY, MAGEE, MS, 39111-5501	Pioneer Health Services	PO BOX 1100, Magee, MS, 39111-1100	Pioneer Health Services	110 PIONEER WAY, Magee, MS, 39111-5501
HSI00000832	Pocono Health System	206 E BROWN ST, EAST STROUDSBURG, PA, 18301-3006	Pocono Health System	206 E BROWN ST, East Stroudsburg, PA, 18301-3006		
HSI00000841			Preferred Management Corporation	120 W MACARTHUR ST, Shawnee, OK, 74804-2005	Preferred Management Corporation	120 WEST MACARTHUR, Shawnee, OK, 74804-2005

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HSI00000842	Premier Health	110 N MAIN ST, DAYTON, OH, 45402-1795	Premier Health	110 N MAIN ST, Dayton, OH, 45402-3720	Premier Health	110 NORTH MAIN STREET SUITE 390, Dayton, OH, 45402-3720
HSI00000844	Presence Health	200 S WACKER DR, CHICAGO, IL, 60606-5863	Presence Health	200 S WACKER DR FL 11, Chicago, IL, 60606-5863	Presence Health	200 SOUTH WACKER DRIVE, Chicago, IL, 60606-5829
HSI00000845	Prime Healthcare Services, Inc	3300 E GUASTI RD, ONTARIO, CA, 91761-8655	Prime Healthcare Services	3300 E GUASTI RD, Ontario, CA, 91761-8657	Prime Healthcare Services	3300 EAST GUASTI ROAD, Ontario, CA, 91761-8655
HSI00000846	Princeton HealthCare System	1 PLAINSBORO RD, PLAINSBORO, NJ, 08536-1913	Princeton HealthCare System	1 PLAINSBORO RD, Plainsboro, NJ, 08536-1913		
HSI00000847	ProHealth Care	N17W24100 RIVERWOOD DR, WAUKESHA, WI, 53188-1127	Prohealth Care Inc	N17W24100 RIVERWOOD DR, Waukesha, WI, 53188-1177	ProHealth Care, Inc.	N17 W24100 RIVERWOOD DRIVE, Waukesha, WI, 53188
HSI00000848	ProMedica Health System	1801 RICHARDS RD, TOLEDO, OH, 43607-1037	Promedica Health System	1801 RICHARDS RD, Toledo, OH, 43607-1037	ProMedica Health System	1801 RICHARDS ROAD, Toledo, OH, 43607-1037
HSI00000850	Promise Healthcare, Inc	999 NW 51ST ST, BOCA RATON, FL, 33431-4476	Promise Healthcare System	999 NW 51ST ST, Boca Raton, FL, 33431-4476	Promise Healthcare	999 YAMATO ROAD, 3RD FLOOR, Boca Raton, FL, 33431-4477
HSI00000852	Providence Health and Services	1801 LIND AVE SW, RENTON, WA, 98057-3368	Providence Health & Services	1801 LIND AVE SW, Renton, WA, 98057-3368		
HSI00000860	Quorum Health Corporation	1573 MALLORY LN, BRENTWOOD, TN, 37027-2895			Quorum Health	1573 MALLORY LANE, Brentwood, TN, 37027
HSI00000862	RCCH HealthCare Partners	103 CONTINENTAL PL, BRENTWOOD, TN, 37027-1042	Regionalcare Hospital Partners	103 CONTINENTAL PL, Brentwood, TN, 37027-1042	RCCH HealthCare Partners	103 CONTINENTAL PLACE STE 200, Brentwood, TN, 37027-1042

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000863	RWJBarnabas Health	95 OLD SHORT HILLS RD, WEST ORANGE, NJ, 07052-1008	Barnabas Health	95 OLD SHORT HILLS RD, West Orange, NJ, 07052-1008	RWJBarnabas Health	95 OLD SHORT HILLS ROAD, West Orange, NJ, 07052-1008
HSI00000868	Regional Health	353 FAIRMONT BLVD, RAPID CITY, SD, 57701-7375	Regional Health Inc	353 FAIRMONT BLVD, Rapid City, SD, 57701-7375	Regional Health	353 FAIRMONT BOULEVARD, Rapid City, SD, 57701-7375
HSI00000870	Regional One Health	877 JEFFERSON AVE, MEMPHIS, TN, 38103-2807	Regional One Health	877 JEFFERSON AVE, Memphis, TN, 38103-2807		
HSI00000871	Regional West Health Services	4021 AVENUE B, SCOTTSBLUFF, NE, 69361-4602	Regional West Health Services	320 E 42ND ST, Scottsbluff, NE, 69361-4788		
HSI00000872	Rehoboth McKinley Christian Health Care Services	1901 RED ROCK DR, GALLUP, NM, 87301-5683	Rehoboth Mckinley Christian Healthcare Services	1901 RED ROCK DR, Gallup, NM, 87301-5683		
HSI00000874	Renown Health	50 W LIBERTY ST, RENO, NV, 89501-1951	Renown Health	1155 MILL ST, Reno, NV, 89502-1576	Renown Health	1155 MILL STREET, Reno, NV, 89502-1576
HSI00000880	Rideout Health Group	989 PLUMAS ST, YUBA CITY, CA, 95991-4012	Rideout Health	989 PLUMAS ST, Yuba City, CA, 95991-4012		
HSI00000881	Ridgeview Medical Center	500 S MAPLE ST, WACONIA, MN, 55387-1752	Ridgeview Medical Center	500 S MAPLE ST, Waconia, MN, 55387-1791	Ridgeview Medical Center	500 SOUTH MAPLE STREET, Waconia, MN, 55387-1752
HSI00000882	Riverside Health Care System, Inc	967 N BROADWAY, YONKERS, NY, 10701-1301	Riverside Health Care	967 N BROADWAY, Yonkers, NY, 10701-1301		
HSI00000883	Riverside Health System	701 TOWN CENTER DR, NEWPORT NEWS, VA, 23606-4286	Riverside Health System	701 TWN CTR DR, Newport News, VA, 23606-4286	Riverside Health System	701 TOWN CENTER DRIVE, Newport News, VA, 23606-4286
HSI00000887	Riverview Hospital (Riverview Health)	395 WESTFIELD RD, NOBLESVILLE, IN, 46060-1425	Riverview Health	395 WESTFIELD RD, Noblesville, IN, 46060-1425		

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HSI00000894	Rural Community Hospitals of America, LLC	1100 MAIN ST, KANSAS CITY, MO, 64105-5186	HMC/CAH Consolidated Inc	1100 MAIN ST, Kansas City, MO, 64105-5186	Rural Community Hospitals of America	1100 MAIN STREET, Kansas City, MO, 64105-5186
HSI00000896	Rush Health Systems	1314 19TH AVE, MERIDIAN, MS, 39301-4116	Rush Health Systems	1314 19TH AVE, Meridian, MS, 39301-4116	Rush Health Systems	1314 19TH AVENUE, Meridian, MS, 39301-4116
HSI00000902	SSM Health	10101 WOODFIELD LN, SAINT LOUIS, MO, 63132-2937	SSM Health Care System	10101 WOODFIELD LN, Saint Louis, MO, 63132-2944	SSM Health	10101 WOODFIELD LANE, Saint Louis, MO, 63132-2937
HSI00000904	SUNY Upstate Medical University	750 E ADAMS ST, SYRACUSE, NY, 13210-2306	Upstate Medical University	750 E ADAMS ST, Syracuse, NY, 13210-1834		
HSI00000912	Saint Charles Health System	2500 NE NEFF RD, BEND, OR, 97701-6015	St Charles Health System	2500 NE NEFF RD, Bend, OR, 97701-6015	St. Charles Health System, Inc.	2500 NE NEFF ROAD, Bend, OR, 97701-6015
HSI00000916	Saint Dominic Health Services	969 LAKELAND DR, JACKSON, MS, 39216-4606	Saint Dominic Health Services	969 LAKELAND DR, Jackson, MS, 39216-4606		
HSI00000917	Saint Elizabeth Healthcare	1 MEDICAL VILLAGE DR, EDGEWOOD, KY, 41017-3403	Saint Elizabeth Healthcare	1 MED VLG DR, Edgewood, KY, 41017-3403	St. Elizabeth Healthcare	1 MEDICAL VILLAGE DRIVE, Edgewood, KY, 41017-3403
HSI00000918	Saint Francis Care	114 WOODLAND ST, HARTFORD, CT, 06105-1208	Saint Francis Care	114 WOODLAND ST, Hartford, CT, 06105-1208		
HSI00000919	Saint Francis Health System	6161 S YALE AVE, TULSA, OK, 74136-1902	Saint Francis Health System	6161 S YALE AVE, Tulsa, OK, 74136-1902	Saint Francis Health System	6161 SOUTH YALE AVENUE, Tulsa, OK, 74136-1902
HSI00000920	Saint Francis Healthcare System	211 SAINT FRANCIS DR, CAPE GIRARDEAU, MO, 63703-5049	Saint Francis Healthcare System	211 ST FRANCIS DR, Cape Girardeau, MO, 63703-5049		
HSI00000924	Saint Joseph Health System	3345 MICHELSON DR, IRVINE, CA, 92612-0692	Saint Joseph Health	3345 MICHELSON DR, Irvine, CA, 92612-0693		

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HSI00000927	Saint Josephs Candler Health System	5353 REYNOLDS ST, SAVANNAH, GA, 31405-6015	Saint Joseph/Candler Health Care	5353 REYNOLDS ST, Savannah, GA, 31405-6015		
HSI00000929	Saint Josephs Healthcare System, Inc	703 MAIN ST, PATERSON, NJ, 07503-2621	St Josephs Healthcare System	703 MAIN ST, Paterson, NJ, 07503-2621		
HSI00000930	Saint Lawrence Health System	50 LEROY ST, POTSDAM, NY, 13676-1786			St. Lawrence Health System	50 LEROY STREET, Potsdam, NY, 13676-1799
HSI00000931	Saint Luke Community Healthcare	107 6TH AVE SW, RONAN, MT, 59864-2634	St Luke Community Healthcare	107 6TH AVE SW, Ronan, MT, 59864-2634		
HSI00000932	Saint Lukes Cornwall Hospital	70 DUBOIS ST, NEWBURGH, NY, 12550-4851	St Luke's Cornwall Health System	70 DUBOIS ST, Newburgh, NY, 12550-4851		
HSI00000934	Saint Lukes Health System	190 E BANNOCK ST, BOISE, ID, 83712-6241	St Luke's Health System	190 E BANNOCK ST, Boise, ID, 83712-6241	St. Luke's Health System	420 WEST IDAHO STREET, Boise, ID, 83702-6041
HSI00000935	Saint Lukes Health System	901 E 104TH ST, KANSAS CITY, MO, 64131-4517	Saint Luke's Health System	901 E 104TH ST, Kansas City, MO, 64131-4517	Saint Luke's Health System	901 EAST 104TH STREET, MAILSTOP 900N, Kansas City, MO, 64131-4517
HSI00000936	Saint Lukes Hospital and Health Network	801 OSTRUM ST, BETHLEHEM, PA, 18015-1000	St Luke's University Health Network	801 OSTRUM ST, Bethlehem, PA, 18015-1000	Luke's University Health Network	801 OSTRUM STREET, Bethlehem, PA, 18015-1000
HSI00000937	Saint Lukes Hospital of Duluth	915 E 1ST ST, DULUTH, MN, 55805-2107	Saint Luke's Health Care System	915 E 1ST ST, Duluth, MN, 55805-2107		
HSI00000940	Saint Marys Medical Management	2828 1ST AVE, HUNTINGTON, WV, 25702-1236			Pallottine Health Services	2900 FIRST AVENUE, Huntington, WV, 25702-1241
HSI00000942	Saint Peters Healthcare System	254 EASTON AVE, NEW BRUNSWICK, NJ, 08901-1766	Saint Peter's Healthcare System	254 EASTON AVE, New Brunswick, NJ, 08901-1766		
HSI00000948	Salina Regional Health Center, Inc	400 S SANTA FE AVE, SALINA, KS, 67401-4144			Salina Regional Health Center	400 SOUTH SANTA FE AVENUE, Salina, KS, 67401-4198

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00000949	Salinas Valley Memorial Healthcare System	450 E ROMIE LN, SALINAS, CA, 93901-4029	Salinas Valley Memorial Healthcare System	450 E ROMIE LN, Salinas, CA, 93901-4029		
HSI00000951	Samaritan Health Services	3600 NW SAMARITAN DR, CORVALLIS, OR, 97330-3737	Samaritan Health Services	3600 NW SAMARITAN DR, Corvallis, OR, 97330-3737	Samaritan Health Services	3600 NW SAMARITAN DRIVE, Corvallis, OR, 97330-3737
HSI00000962	Sarasota Memorial Health Care System, Inc	1700 S TAMIAMI TRL, SARASOTA, FL, 34239-3509	Sarasota Memorial Health Care	1700 S TAMIAMI TRL, Sarasota, FL, 34239-3509		
HSI00000965	Schuylkill Health	420 S JACKSON ST, POTTSVILLE, PA, 17901-3625	Schuylkill Health System	420 S JACKSON ST, Pottsville, PA, 17901-3625	Schuylkill Health System	420 SOUTH JACKSON STREET, Pottsville, PA, 17901-3625
HSI00000968	Scripps Health	4275 CAMPUS POINT CT, SAN DIEGO, CA, 92121-1513	Scripps Health	4275 CMPUS POINT CT, San Diego, CA, 92121-1513	Scripps Health	4275 CAMPUS POINT COURT CP112, San Diego, CA, 92121-1513
HSI00000970	Select Medical Corporation	4714 GETTYSBURG RD, MECHANICSBURG, PA, 17055-4325	Select Medical	4714 GETTYSBURG RD, Mechanicsburg, PA, 17055-4325	Select Medical Corporation	4714 GETTYSBURG ROAD, Mechanicsburg, PA, 17055-4325
HSI00000972	Sentara Healthcare	6015 POPLAR HALL DR, NORFOLK, VA, 23502-3819	Sentara Healthcare	6015 POPLAR HALL DR, Norfolk, VA, 23502-3819	Sentara Healthcare	6015 POPLAR HALL DRIVE, Norfolk, VA, 23502-3819
HSI00000977	Sharp HealthCare	8695 SPECTRUM CENTER BLVD, SAN DIEGO, CA, 92123-1489	Sharp Healthcare	4000 RUFFIN RD, San Diego, CA, 92123-1878	Sharp HealthCare	8695 SPECTRUM CENTER BOULEVARD, San Diego, CA, 92123-1489
HSI00000984	Signature Healthcare	680 CENTRE ST, BROCKTON, MA, 02302-3308	Signature Healthcare	680 CENTRE ST, Brockton, MA, 02302-3308		
HSI00000986	Silverton Health	342 FAIRVIEW ST, SILVERTON, OR, 97381-1917	Silverton Health	342 FAIRVIEW ST, Silverton, OR, 97381-1917		
HSI00000987	Sinai Health System	1500 S CALIFORNIA AVE, CHICAGO, IL, 60608	Sinai Health System	1500 S FAIRFIELD AVE, Chicago, IL, 60608-1782	Sinai Health System	1500 SOUTH CALIFORNIA AVENUE, Chicago, IL, 60608-1729

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HSI00000990	Sisters of Charity Health System	2475 E 22ND ST, CLEVELAND, OH, 44115-3221	Sisters Of Charity Health System	2475 E 22ND ST FL 6, Cleveland, OH, 44115-3221	Sisters of Charity Health System	2475 EAST 22ND STREET, Cleveland, OH, 44115-3221
HSI00001000	South Haven Health System	955 S BAILEY AVE, SOUTH HAVEN, MI, 49090-6743	South Haven Health System	955 S BAILEY AVE, South Haven, MI, 49090-6743		
HSI00001004	Southcoast Health System, Inc	101 PAGE ST, NEW BEDFORD, MA, 02740-3464	Southcoast Health System	101 PAGE ST, New Bedford, MA, 02740-3464		
HSI00001006	Southeast Georgia Health System	2415 PARKWOOD DR, BRUNSWICK, GA, 31520-4722	Southeast Georgia Health System Management	2415 PARKWOOD DR, Brunswick, GA, 31520-4722	Southeast Georgia Health System	2415 PARKWOOD DRIVE, Brunswick, GA, 31520-4722
HSI00001014	Southwest Healthcare Services	802 2ND ST NW, BOWMAN, ND, 58623-4483	Southwest Healthcare Services	802 2ND ST NW, Bowman, ND, 58623-4483		
HSI00001018	Sparrow Health System	1200 E MICHIGAN AVE, LANSING, MI, 48912-1852	Sparrow Health System	1200 E MICHIGAN AVE, Lansing, MI, 48912-1800	Sparrow Health System	1215 EAST MICHIGAN AVENUE, Lansing, MI, 48912-1811
HSI00001020	Spartanburg Regional Healthcare Services District, Inc	101 E WOOD ST, SPARTANBURG, SC, 29303-3040	Spartanburg Regional Healthcare	101 E WOOD ST, Spartanburg, SC, 29303-3040	Spartanburg Regional Healthcare System	101 EAST WOOD STREET, Spartanburg, SC, 29303-3040
HSI00001021	Spectrum Health	100 MICHIGAN ST NE, GRAND RAPIDS, MI, 49503-2560	Spectrum Health	100 MICHIGAN ST NE, Grand Rapids, MI, 49503-2560	Spectrum Health	100 MICHIGAN STREET NE, Grand Rapids, MI, 49503-2551
HSI00001022	Springfield Medical Care Systems	25 RIDGEWOOD RD, SPRINGFIELD, VT, 05156-3050	Springfield Medical Care System	25 RIDGEWOOD RD, Springfield, VT, 05156-3050		
HSI00001032	Stamford Hospital	30 SHELBURNE RD, STAMFORD, CT, 06902-3628	Stamford Health System	30 SHELBURNE RD, Stamford, CT, 06902-3628		
HSI00001033	Stanford Health Care	300 PASTEUR DR, STANFORD, CA, 94305-2200	Stanford Health Care	300 PASTEUR DR, Stanford, CA, 94305-2200	Stanford Health Care	300 PASTEUR DRIVE, Palo Alto, CA, 94304-2299

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00001037	Steward Health Care System, LLC	500 BOYLSTON ST, BOSTON, MA, 02116-3740	Steward Health Care System	500 BOYLSTON ST, Boston, MA, 02116-3740	Steward Health Care System, LLC	500 BOYLSTON STREET, 5TH FLOOR, Boston, MA, 02116-3740
HSI00001038	Stony Brook University Medical Center	101 NICOLLS RD, STONY BROOK, NY, 11794-0001	Stony Brook Medicine	101 NICOLLS RD, Stony Brook, NY, 11794-0001		
HSI00001039	Stormont Vail Health	1500 SW 10TH AVE, TOPEKA, KS, 66604-1301	Stormont Vail Healthcare	1500 SW 10TH AVE, Topeka, KS, 66604-1301		
HSI00001045	Summit Health	112 N 7TH ST, CHAMBERSBURG, PA, 17201-1720	Summit Health	112 N 7TH ST, Chambersburg, PA, 17201-1720	Summit Health	112 NORTH SEVENTH STREET, Chambersburg, PA, 17201-1720
HSI00001047	SunLink Health Systems, Inc	900 CIRCLE 75 PKWY SE, ATLANTA, GA, 30339-3005	Sunlink Health Systems	900 CIR 75 PKWY SE, Atlanta, GA, 30339-3005	Sunlink Health Systems	900 CIRCLE 75 PARKWAY, Atlanta, GA, 30339-3005
HSI00001049	Susquehanna Health System	700 HIGH ST, WILLIAMSPORT, PA, 17701-3100	Susquehanna Health	700 HIGH ST, Williamsport, PA, 17701-3100	Susquehanna Health System	700 HIGH STREET, Williamsport, PA, 17701-3100
HSI00001050	Sutter Health	2200 RIVER PLAZA DR, SACRAMENTO, CA, 95833-4134	Sutter Health	2200 RVR PLZ DR, Sacramento, CA, 95833-4134	Sutter Health	2200 RIVER PLAZA DRIVE, Sacramento, CA, 95833-4134
HSI00001051			Swedish Health Services	747 BROADWAY, Seattle, WA, 98122-4379	Swedish Health Services	747 BROADWAY, Seattle, WA, 98122-4379
HSI00001055	TMC HealthCare	5301 E GRANT RD, TUCSON, AZ, 85712-2805	TMC Healthcare	5301 E GRANT RD, Tucson, AZ, 85712-2805		
HSI00001059	Tahoe Forest Hospital District	10121 PINE AVE, TRUCKEE, CA, 96161-4835	Tahoe Forest Hospital District	10121 PINE AVE, Truckee, CA, 96161-4835	Tahoe Forest Health System	10121 PINE AVENUE, Truckee, CA, 96161-4835
HSI00001060	Tallahassee Memorial HealthCare	1300 MICCOSUKEE RD, TALLAHASSEE, FL, 32308-5054	Tallahassee Memorial Healthcare	1300 MICCOSUCKEE RD, Tallahassee, FL, 32308		

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HSI00001061	Tanner Medical Center, Inc (Tanner Health System)	705 DIXIE ST, CARROLLTON, GA, 30117-3818	Tanner Health System	705 DIXIE ST, Carrollton, GA, 30117-3818	Tanner Health System	705 DIXIE STREET, Carrollton, GA, 30117-3818
HSI00001063	Tarrant County Hospital District (JPS Health Network)	1500 S MAIN ST, FORT WORTH, TX, 76104-4917	JPS Health Network	1500 S MAIN ST, Fort Worth, TX, 76104-4917		
HSI00001069	Texas Childrens Hospital	6621 FANNIN ST, HOUSTON, TX, 77030-2358	Texas Children's Hospital Health System	6621 FANNIN ST, Houston, TX, 77030-2358		
HSI00001072	Texas Health Resources	612 E LAMAR BLVD, ARLINGTON, TX, 76011-4130	Texas Health Resources	612 E LAMAR BLVD, Arlington, TX, 76011-4123	Texas Health Resources	612 EAST LAMAR BOULEVARD, Arlington, TX, 76011-4130
HSI00001074	The Carle Foundation	611 W PARK ST, URBANA, IL, 61801-2529	The Carle Foundation Hospital	611 W PK ST, Urbana, IL, 61801-2529	Carle Foundation	611 WEST PARK STREET, Urbana, IL, 61801-2595
HSI00001076	The Childrens Mercy Hospital	2401 GILLHAM RD, KANSAS CITY, MO, 64108-4619	Childrens Mercy Hospitals & Clinic	2401 GILLHAM RD, Kansas City, MO, 64108-4619		
HSI00001078	The Cleveland Clinic Health System	9500 EUCLID AVE, CLEVELAND, OH, 44195-0001	Cleveland Clinic Health System	9500 EUCLID AVE MS -NA4, Cleveland, OH, 44195-0001	Cleveland Clinic Health System	9500 EUCLID, Cleveland, OH, 44195-5108
HSI00001079	The Cooper Health System	1 COOPER PLZ, CAMDEN, NJ, 08103-1461	Cooper University Health Care	1 COOPER PLZ, Camden, NJ, 08103-1461		
HSI00001082	The Methodist Hospitals, Inc	600 GRANT ST, GARY, IN, 46402-6001	Methodist Hospitals	600 GRANT ST, Gary, IN, 46402-6001		
HSI00001083	The MetroHealth System	2500 METROHEALTH DR, CLEVELAND, OH, 44109-1900	MetroHealth System	2500 METROHEALTH DR, Cleveland, OH, 44109-1900		
HSI00001086	The Ohio State University Wexner Medical Center	200 MEILING 370 WEST 9TH, COLUMBUS, OH, 43210	The Ohio State University Health System	410 W 10TH AVE, Columbus, OH, 43210-1240	Ohio State University Health System	370 WEST NINTH AVENUE, Columbus, OH, 43210-1238
HSI00001087	The Queens Health Systems	1301 PUNCHBOWL ST, HONOLULU, HI, 96813-2402	Queens Health Systems	1301 PUNCHBOWL ST, Honolulu, HI, 96813-2402	Queen's Health Systems	1301 PUNCHBOWL STREET, Honolulu, HI, 96813-2402

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00001089	The University of Chicago Medicine	5841 S MARYLAND AVE, CHICAGO, IL, 60637-1447	University Of Chicago Medicine	5841 S MARYLAND AVE, Chicago, IL, 60637-1654	University of Chicago Medicine	5841 SOUTH MARYLAND AVENUE, Chicago, IL, 60637-1447
HSI00001090	The University of Toledo Medical Center	3000 ARLINGTON AVE, TOLEDO, OH, 43614-2595	University Of Toledo Medical Center	3000 ARLINGTON AVE, Toledo, OH, 43614-2595		
HSI00001092	ThedaCare, Inc	122 E COLLEGE AVE, APPLETON, WI, 54911-5794	Thedacare	122 E COLL AVE, Appleton, WI, 54911-5741	ThedaCare, Inc.	122 EAST COLLEGE AVENUE, Appleton, WI, 54911-5794
HSI00001093	Thomas Health System	4605 MACCORKLE AVE SW, CHARLESTON, WV, 25309-1311	Thomas Health System	4605 MACCORKLE AVE SW, South Charleston, WV, 25309-1311	Thomas Health System, Inc.	4605 MACCORKLE AVENUE SW, South Charleston, WV, 25309-1311
HSI00001097			Tift Regional Health System	901 18TH ST E, Tifton, GA, 31794-3648	Tift Regional Health System	901 EAST 18TH STREET, Tifton, GA, 31794-3648
HSI00001103	Tri-County Health Care	415 JEFFERSON ST N, WADENA, MN, 56482-1264	Tri-County Health Care System	415 JEFFERSON ST N, Wadena, MN, 56482-1264		
HSI00001104	TriHealth	619 OAK ST, CINCINNATI, OH, 45206-1613	Trihealth Inc	619 OAK ST, Cincinnati, OH, 45206-1613		
HSI00001105	Trinitas Regional Medical Center	225 WILLIAMSON ST, ELIZABETH, NJ, 07202-3625	Trinitas Regional Medical Center	225 WILLIAMSON ST, Elizabeth, NJ, 07202-3625		
HSI00001108	Trinity Health System	380 SUMMIT AVE, STEUBENVILLE, OH, 43952-2667	Trinity Health System	380 SUMMIT AVE, Steubenville, OH, 43952-2667		
HSI00001109	Trios Health	900 S AUBURN ST, KENNEWICK, WA, 99336-5621	Trios Health	PO BOX 6128, Kennewick, WA, 99336-0128		
HSI00001110	Truman Medical Centers	2301 HOLMES ST, KANSAS CITY, MO, 64108-2640			Truman Medical Centers	2301 HOLMES STREET, Kansas City, MO, 64108-2677
HSI00001111	Tuality Healthcare	335 SE 8TH AVE, HILLSBORO, OR, 97123-4246	Tuality Healthcare	335 SE 8TH AVE, Hillsboro, OR, 97123-4246		

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00001116	UAB Health System	500 22ND ST S, BIRMINGHAM, AL, 35233-3110	UAB Health System	500 22ND ST S, Birmingham, AL, 35233-3110	UAB Health System	500 22ND STREET SOUTH, Birmingham, AL, 35233-3110
HSI00001118	UC Health	3200 BURNET AVE, CINCINNATI, OH, 45229-3019	University Cincinnati Health	3200 BURNET AVE, Cincinnati, OH, 45229-3019	UC Health	3200 BURNET AVENUE, Cincinnati, OH, 45229-3019
HSI00001122	UMass Memorial Health Care	365 PLANTATION ST, WORCESTER, MA, 01605-2397	UMass Memorial Health Care	365 PLANTATION ST, Worcester, MA, 01605-2397	UMass Memorial Health Care, Inc.	1 BIOTECH PARK, Worcester, MA, 01605-2982
HSI00001123	UNC Health Care System	101 MANNING DR, CHAPEL HILL, NC, 27514-4220	UNC Health Care	101 MANNING DR, Chapel Hill, NC, 27514-4423	UNC Health Care	101 MANNING DRIVE, Chapel Hill, NC, 27514-4220
HSI00001127	UPMC Jameson	1211 WILMINGTON AVE, NEW CASTLE, PA, 16105-2516	Jameson Health System	1211 WILMINGTON AVE, New Castle, PA, 16105-2516		
HSI00001132	UW Health	600 HIGHLAND AVE, MADISON, WI, 53792-0001	University Of Wisconsin Health	600 HIGHLAND AVE, Madison, WI, 53792-0001		
HSI00001133	UW Medicine	1959 NE PACIFIC ST, SEATTLE, WA, 98195-0001	UW Medicine	1959 NE PACIFIC ST, Seattle, WA, 98195-0001	UW Medicine	1959 NE PACIFIC STREET, Seattle, WA, 98195-0001
HSI00001134	Union General Hospital, Inc	35 HOSPITAL RD, BLAIRSVILLE, GA, 30512-3139			Union General Hospital, Inc.	35 HOSPITAL ROAD, Blairsville, GA, 30512-3139
HSI00001136	Union Hospital	106 BOW ST, ELKTON, MD, 21921-5544	Union Hospital	106 BOW ST, Elkton, MD, 21921-5596		
HSI00001137	Union Hospital, Inc	1606 N 7TH ST, TERRE HAUTE, IN, 47804-2706	Union Hospitals Health Group	1606 N 7TH ST, Terre Haute, IN, 47804-2706		
HSI00001138	United Health Services	10 42 MITCHELL AVE, BINGHAMTON, NY, 13903-1617	United Health Services	10 42 MITCHELL AVE, Binghamton, NY, 13903-1617	United Health Services	10-42 MITCHELL AVENUE, Binghamton, NY, 13903-1617

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00001143	United Regional Health Care System	1600 11TH ST, WICHITA FALLS, TX, 76301-4300	United Regional Healthcare System	1600 11TH ST, Wichita Falls, TX, 76301-4300		
HSI00001146	UnityPoint Health	1776 WEST LAKES PKWY, WEST DES MOINES, IA, 50266-8378	UnityPoint Health	1776 W LAKES PKWY, West Des Moines, IA, 50266-8378	UnityPoint Health	1776 WESTLAKES PARKWAY, West Des Moines, IA, 50266-8239
HSI00001148	Universal Health Services, Inc	367 S GULPH RD, NORRISTOWN, PA, 19406-3121	Universal Health Services Inc	PO BOX 61558, King of Prussia, PA, 19406-0958	Universal Health Services, Inc.	367 SOUTH GULPH ROAD, King of Prussia, PA, 19406-3121
HSI00001150	University General Health System	7501 FANNIN ST, HOUSTON, TX, 77054-1938	University General Health System	7501 FANNIN ST, Houston, TX, 77054-1938		
HSI00001151	University Health Care System	1350 WALTON WAY, AUGUSTA, GA, 30901-2612	University Health Care System	1350 WALTON WAY, Augusta, GA, 30901-2629	University Health Care System	1350 WALTON WAY, Augusta, GA, 30901-2629
HSI00001153	University Health System, Inc (University of Tennessee Medical Center)	1924 ALCOA HWY, KNOXVILLE, TN, 37920-1511	University Of Tennessee Medical Center	1924 ALCOA HWY, Knoxville, TN, 37920-1511		
HSI00001155	University Hospital and Health System (University of Mississippi Health Care)	2500 N STATE ST, JACKSON, MS, 39216-4500	University Of Mississippi Health	2500 N STATE ST, Jackson, MS, 39216-4500	University Hospitals and Health System	2500 NORTH STATE STREET, Jackson, MS, 39216-4500
HSI00001156	University Hospitals	11100 EUCLID AVE, CLEVELAND, OH, 44106-1716	University Hospitals	11100 EUCLID AVE, Cleveland, OH, 44106-1716	University Hospitals	11100 EUCLID AVENUE, Cleveland, OH, 44106-5000
HSI00001165			University Of Texas Health System	601 COLORADO ST, Austin, TX, 78701-2904	University of Texas System	601 COLORADO STREET, Austin, TX, 78701-2904
HSI00001166	University of Arkansas for Medical Sciences	4301 W MARKHAM ST, LITTLE ROCK, AR, 72205-7101	University Of Arkansas	4301 W MARKHAM ST, Little Rock, AR, 72205-7101		
HSI00001167	University of California Los Angeles Health System	757 WESTWOOD PLZ, LOS ANGELES, CA, 90095-8358	UCLA Healthcare	757 WESTWOOD PLZ, Los Angeles, CA, 90095-8358		

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00001170	University of Connecticut Health Center	263 FARMINGTON AVE, FARMINGTON, CT, 06030-0001	University Of Connecticut Health	263 FARMINGTON AVE, Farmington, CT, 06030-0001		
HSI00001172	University of Iowa Hospitals and Clinics	200 HAWKINS DR, IOWA CITY, IA, 52242-1009	UI Health Care	200 HAWKINS DR, Iowa City, IA, 52242-1009		
HSI00001173	University of Kansas Medical Center	3901 RAINBOW BLVD, KANSAS CITY, KS, 66160-8500	University Of Kansas/Medical Center	3901 RAINBOW BLVD, Kansas City, KS, 66160-8500		
HSI00001175	University of Maryland Medical System	250 W PRATT ST, BALTIMORE, MD, 21201-2423	UMMS Medical System	250 W PRATT ST, Baltimore, MD, 21201-2423	University of Maryland Medical System	250 WEST PRATT STREET, 24TH FLOOR, Baltimore, MD, 21201-1595
HSI00001176	University of Miami Health System	1120 NW 14TH ST, MIAMI, FL, 33136-2107	University Of Miami Health System	1400 NW 12TH AVE, Miami, FL, 33136-1003	University of Miami Health System	1400 NW 12TH AVENUE, Miami, FL, 33136-1003
HSI00001179	University of Rochester Medical Center	601 ELMWOOD AVE, ROCHESTER, NY, 14642-0001	Stronghealth	601 ELMWOOD AVE, Rochester, NY, 14642-0001	University of Rochester Medical Center	601 ELMWOOD AVE BOX 623, Rochester, NY, 14642-0002
HSI00001180	University of South Alabama Hospitals	2451 FILLINGIM ST, MOBILE, AL, 36617-2238	USA Medical Center	2451 FILLINGIM ST, Mobile, AL, 36617-2238	University of South Alabama Hospitals	2451 FILLINGIM STREET, Mobile, AL, 36617-2238
HSI00001181	University of Southern California	3535 S FIGUEROA ST, LOS ANGELES, CA, 90089-1267	Keck Medicine Of USC	1510 SAN PABLO ST, Los Angeles, CA, 90033-5405	Keck Medicine of USC	1500 SAN PABLO STREET, Los Angeles, CA, 90033-5313
HSI00001185	University of Vermont Health Network	111 COLCHESTER AVE, BURLINGTON, VT, 05401-1473	The University Of Vermont Health Network	111 COLCHESTER AVE PATRICK BLDG, Burlington, VT, 05401		
HSI00001186	University of Virginia Health System	1215 LEE ST, CHARLOTTESVILLE, VA, 22908-0816	University Of Virginia Health System	PO BOX 800809, Charlottesville, VA, 22908-0809	UVA Health System	1215 LEE STREET, Charlottesville, VA, 22908-0816

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00001187	Upper Allegheny Health System	130 S UNION ST, OLEAN, NY, 14760-3676	Upper Allegheny Health System	130 S UNION ST, Olean, NY, 14760-3676	Upper Allegheny Health System	130 SOUTH UNION STREET, Olean, NY, 14760-3676
HSI00001213	VCU Health System	1250 E MARSHALL ST, RICHMOND, VA, 23298-5051	Virginia Commonwealth University Health System	1250 E MARSHALL ST, Richmond, VA, 23298-5051	VCU Health System	1250 EAST MARSHALL STREET, Richmond, VA, 23298-5051
HSI00001218	Valley Health System	223 N VAN DIEN AVE, RIDGEWOOD, NJ, 07450-2726	Valley Health System	223 N VAN DIEN AVE, Ridgewood, NJ, 07450-2726		
HSI00001222	Vanderbilt University Medical Center	1161 MEDICAL CENTER DR, NASHVILLE, TN, 37232-0001	Vanderbilt University Medical Center	1211 MEDICAL CENTER DR, Nashville, TN, 37232-0004	Vanderbilt Health	1211 22ND AVENUE SOUTH, Nashville, TN, 37232
HSI00001226	Veterans Health Administration	810 VERMONT AVE NW, WASHINGTON, DC, 20420-0001			Department of Veterans Affairs	810 VERMONT AVENUE NW, Washington, DC, 20420-0001
HSI00001228	Vibra Healthcare	4550 LENA DR, MECHANICSBURG, PA, 17055-4922	Vibra Healthcare	4550 LENA DR, Mechanicsburg, PA, 17055-4920	Vibra Healthcare	4550 LENA DRIVE, Mechanicsburg, PA, 17055-4920
HSI00001229			Victory Healthcare	2201 TIMBERLOCH PL, The Woodlands, TX, 77380-1140	Victory Healthcare	2201 TIMBERLOCH PLACE, The Woodlands, TX, 77380
HSI00001233	Virtua Health	303 LIPPINCOTT DR, MARLTON, NJ, 08053-4160	Virtua Health	50 ROUTE 73 N, Marlton, NJ, 08053	Virtua Health	50 LAKE CENTER EXECUTIVE DRIVE, Marlton, NJ, 08053
HSI00001236	WakeMed Health and Hospitals	3000 NEW BERN AVE, RALEIGH, NC, 27610-1231	Wakemed Health & Hospitals	3000 NEW BERN AVE, Raleigh, NC, 27610-1231	WakeMed Health & Hospitals	3000 NEW BERN AVENUE, Raleigh, NC, 27610-1231
HSI00001238	Washington Health System	155 WILSON AVE, WASHINGTON, PA, 15301-3336	Washington Health System	155 WILSON AVE, Washington, PA, 15301-3336	Washington Health System	155 WILSON AVENUE, Washington, PA, 15301-3336
HSI00001239	Washington Hospital Healthcare System	2000 MOWRY AVE, FREMONT, CA, 94538-1716	Washington Hospital Healthcare System	2000 MOWRY AVE, Fremont, CA, 94538-1716		

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00001240	Washington Regional	3215 N NORTHHILLS BLVD, FAYETTEVILLE, AR, 72703-4424	Washington Regional	3215 N NORTHHILLS BLVD, Fayetteville, AR, 72703-4424		
HSI00001242	Wayne Memorial Health System, Inc	601 PARK ST, HONESDALE, PA, 18431-1445	Wayne Memorial Health System	601 PK ST, Honesdale, PA, 18431-1445		
HSI00001243	WellSpan Health	45 MONUMENT RD, YORK, PA, 17403-5071	WellSpan Health	45 MONUMENT RD, York, PA, 17403-5071	WellSpan Health	45 MONUMENT ROAD, York, PA, 17403-5071
HSI00001244	WellStar Health System, Inc	793 SAWYER RD, MARIETTA, GA, 30062-2222	Wellstar Health System	793 SAWYER RD, Marietta, GA, 30062-2222	WellStar Health System	793 SAWYER ROAD, Marietta, GA, 30062
HSI00001246	Wellmont Health System	1905 AMERICAN WAY, KINGSPORT, TN, 37660-5882	Wellmont Health System	1905 AMERICAN WAY, Kingsport, TN, 37660-5882	Wellmont Health System	1905 AMERICAN WAY, Kingsport, TN, 37660-5882
HSI00001250	West Tennessee Healthcare	620 SKYLINE DR, JACKSON, TN, 38301-3923	West Tennessee Healthcare	620 SKYLINE DR, Jackson, TN, 38301-3923	West Tennessee Healthcare	620 SKYLINE DRIVE, Jackson, TN, 38301-3923
HSI00001252	Westchester County Healthcare Corporation (Westchester Medical Center)	100 WOODS RD, VALHALLA, NY, 10595-1530			WMCHealth	100 WOODS ROAD, Valhalla, NY, 10595-1530
HSI00001253	Western Connecticut Health Network, Inc	24 HOSPITAL AVE, DANBURY, CT, 06810-6099	Western Connecticut Health Network	24 HOSP AVE, Danbury, CT, 06810-6099	Western Connecticut Health Network	24 HOSPITAL AVENUE, Danbury, CT, 06810-6099
HSI00001255	Western Maryland Health System	12500 WILLOWBROOK RD, CUMBERLAND, MD, 21502-6393	Western Maryland Health System	12400 WILLOWBROOK RD, Cumberland, MD, 21502-2559		
HSI00001259	Wheeling Hospital	1 MEDICAL PARK, WHEELING, WV, 26003-6379	Wheeling Hospital Inc	1 MED PK, Wheeling, WV, 26003-6300		
HSI00001260	White River Health System, Inc	1710 HARRISON ST, BATESVILLE, AR, 72501-7303	White River Health System	1710 HARRISON ST FL 1, Batesville, AR, 72501-7303	White River Health System	1710 HARRISON STREET, Batesville, AR, 72501-7303

Health system ID	HCOS health system name	HCOS health system address	SK&A health system name	SK&A health system address	AHA health system name	AHA health system address
HSI00001261			Whittier Health Network	2535 RAILROAD SQ, Haverhill, MA, 01832	Whittier Health Network	25 RAILROAD SQUARE, Haverhill, MA, 01832-5721
HSI00001263	Willis-Knighton Health System	2600 GREENWOOD RD, SHREVEPORT, LA, 71103-3908	Willis-Knighton Health System	2600 GREENWOOD RD, Shreveport, LA, 71103-3908	Willis-Knighton Health System	2600 GREENWOOD ROAD, Shreveport, LA, 71103-3908
HSI00001268	Wise Regional Health System	609 MEDICAL CENTER DR, DECATUR, TX, 76234-3836	Wise Regional Health System	2000 S FM 51, Decatur, TX, 76234-3702		
HSI00001272	Yale New Haven Health System	789 HOWARD AVE, NEW HAVEN, CT, 06519-1304	Yale New Haven Health System	789 HOWARD AVE, New Haven, CT, 06519-1304	Yale New Haven Health	789 HOWARD AVENUE, New Haven, CT, 06519-1304
HSI00001273	Yavapai Regional Medical Center	1003 WILLOW CREEK RD, PRESCOTT, AZ, 86301-1641	Yavapai Regional Health System	1003 WILLOW CREEK RD, Prescott, AZ, 86301-1641		
HSI00001274	York Hospital	15 HOSPITAL DR, YORK, ME, 03909-1011	York Hospital	15 HOSP DR, York, ME, 03909-1099		

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Appendix C. Health Systems With Nested Subsystems (Prior to Exclusions)

Parent ID	Parent Name	Subsystem ID	Subsystem Name	Subsystem city	Subsystem State
HSI00000046	Ardent Health Services	HSI00000082	Baptist St Anthony's Health System	Amarillo	TX
HSI00000046	Ardent Health Services	HSI00000483	Hillcrest Healthcare System	Tulsa	OK
HSI00000055	Ascension Health	HSI00000014	Affinity Health System	Appleton	WI
HSI00000055	Ascension Health	HSI00000022	Alexian Brothers Health System	Arlington heights	IL
HSI00000055	Ascension Health	HSI00000129	Borgess Health	Kalamazoo	MI
HSI00000055	Ascension Health	HSI00000176	Carondelet Health Network	Tucson	AZ
HSI00000055	Ascension Health	HSI00000187	Catholic Health System	Buffalo	NY
HSI00000055	Ascension Health	HSI00000237	Columbia St Mary's	Milwaukee	WI
HSI00000055	Ascension Health	HSI00000392	Genesys Health System	Grand blanc	MI
HSI00000055	Ascension Health	HSI00000596	Lourdes Health Network	Pasco	WA
HSI00000055	Ascension Health	HSI00000688	Ministry Healthcare	Milwaukee	WI
HSI00000055	Ascension Health	HSI00000801	Our Lady Of Lourdes	Binghamton	NY
HSI00000055	Ascension Health	HSI00000853	Providence Healthcare Network	Waco	TX
HSI00000055	Ascension Health	HSI00000905	Sacred Heart Health System	Pensacola	FL
HSI00000055	Ascension Health	HSI00000921	Saint John Providence Health System	Warren	MI
HSI00000055	Ascension Health	HSI00000923	Saint Joseph Health System	Tawas city	MI
HSI00000055	Ascension Health	HSI00000939	Saint Mary's Of Michigan	Saginaw	MI
HSI00000055	Ascension Health	HSI00000946	Saint Thomas Health	Nashville	TN
HSI00000055	Ascension Health	HSI00000974	Seton Healthcare Family	Austin	TX
HSI00000055	Ascension Health	HSI00001024	St John Health System	Broken arrow	OK
HSI00000055	Ascension Health	HSI00001026	St Mary's Health System	Evansville	IN
HSI00000055	Ascension Health	HSI00001028	St Vincent Health System	Indianapolis	IN
HSI00000055	Ascension Health	HSI00001029	St Vincent's Health Services	Bridgeport	CT
HSI00000055	Ascension Health	HSI00001030	St Vincents Health System	Birmingham	AL
HSI00000055	Ascension Health	HSI00001031	St Vincents Healthcare	Jacksonville	FL
HSI00000055	Ascension Health	HSI00001140	United Hospital System Inc	Kenosha	WI
HSI00000055	Ascension Health	HSI00001227	Via Christi Health System	Wichita	KS
HSI00000055	Ascension Health	HSI00001257	Wheaton Franciscan Health Care	Milwaukee	WI
HSI00000057	Aspirus Inc	HSI00000757	NorthStar Health System	Iron river	MI
HSI00000057	Aspirus Inc	HSI00001267	Wisconsin Valley Health Network, LLC	Wausau	WI
HSI00000125	Bon Secours Health System, Inc	HSI00000122	Bon Secours Baltimore Health System	Baltimore	MD
HSI00000125	Bon Secours Health System, Inc	HSI00000124	Bon Secours Hampton Roads Health System	Norfolk	VA
HSI00000125	Bon Secours Health System,Inc	HSI00000126	Bon Secours Kentucky Health System	Ashland	KY

Parent ID	Parent Name	Subsystem ID	Subsystem Name	Subsystem city	Subsystem State
HSI00000125	Bon Secours Health System,Inc	HSI00000127	Bon Secours Richmond Health System	Richmond	VA
HSI00000125	Bon Secours Health System,Inc	HSI00000128	Bon Secours Saint Francis Health System	Greenville	SC
HSI00000173	Carolinas HealthCare System	HSI00000035	Anmed Health System	Anderson	SC
HSI00000173	Carolinas HealthCare System	HSI00000120	Blue Ridge HealthCare	Morganton	NC
HSI00000173	Carolinas HealthCare System	HSI00000174	Carolinas Healthcare System Cleveland	Shelby	NC
HSI00000173	Carolinas HealthCare System	HSI00000263	Cone Health	Greensboro	NC
HSI00000173	Carolinas HealthCare System	HSI00000892	Roper St Francis Healthcare	Charleston	SC
HSI00000173	Carolinas HealthCare System	HSI00000967	Scotland Health Care System	Laurinburg	NC
HSI00000173	Carolinas HealthCare System	HSI00001034	Stanly Health Services	Albemarle	NC
HSI00000183	Catholic Health Initiatives	HSI00000149	CHI Franciscan Health	Tacoma	WA
HSI00000183	Catholic Health Initiatives	HSI00000150	CHI Health	Omaha	NE
HSI00000183	Catholic Health Initiatives	HSI00000151	CHI St Luke's Health Memorial	Lufkin	TX
HSI00000183	Catholic Health Initiatives	HSI00000184	CHI Saint Vincent Health System	Little rock	AR
HSI00000183	Catholic Health Initiatives	HSI00000199	Centura Health	Englewood	CO
HSI00000183	Catholic Health Initiatives	HSI00000542	Kentuckyone Health	Louisville	KY
HSI00000183	Catholic Health Initiatives	HSI00000842	Premier Health	Dayton	OH
HSI00000183	Catholic Health Initiatives	HSI00001025	St Joseph Health System	Bryan	TX
HSI00000186	Catholic Health Services of LI	HSI00000666	Mercy Medical Center	Cedar rapids	IA
HSI00000202	Chartercare Health Partners	HSI00000891	Roger Williams Medical Center	Providence	RI
HSI00000202	Chartercare Health Partners	HSI00000922	Saint Joseph Health Services of Rhode Island	North providence	RI
HSI00000152	CHRISTUS Health	HSI00000219	Christus Health Northern Louisiana	Shreveport	LA
HSI00000152	CHRISTUS Health	HSI00000220	Christus Santa Rosa HealthnSystem	San antonio	TX
HSI00000152	CHRISTUS Health	HSI00000221	Christus Spohn Health System	Corpus christi	TX
HSI00000152	CHRISTUS Health	HSI00000222	Christus St Michael Health System	Texarkana	TX
HSI00000152	CHRISTUS Health	HSI00000223	Christus Trinity Mother Frances Health System	Tyler	TX
HSI00000249	Community Health Systems,Inc	HSI00000093	Bayfront Health	Saint petersburg	FL
HSI00000249	Community Health Systems,Inc	HSI00000243	Commonwealth Health	Wilkes barre	PA
HSI00000249	Community Health Systems,Inc	HSI00000311	Detar Healthcare System	Victoria	TX
HSI00000249	Community Health Systems,Inc	HSI00000669	Merit Health Wesley	Hattiesburg	MS
HSI00000249	Community Health Systems,Inc	HSI00000769	Northwest Health System	Springdale	AR
HSI00000249	Community Health Systems,Inc	HSI00000834	Porter Health Care System	Valparaiso	IN
HSI00000249	Community Health Systems,Inc	HSI00000976	Sharon Regional Health System	Sharon	PA
HSI00000249	Community Health Systems,Inc	HSI00001017	Sparks Health System	Fort smith	AR
HSI00000249	Community Health Systems,Inc	HSI00001068	Tennova Healthcare	Newport	TN
HSI00000249	Community Health Systems,Inc	HSI00001221	ValleyCare Health System of Ohio	Youngstown	OH

Parent ID	Parent Name	Subsystem ID	Subsystem Name	Subsystem city	Subsystem State
HSI00000357	Fairview Health Services	HSI00001164	University Of Minnesota	Duluth	MN
HSI00000375	Franciscan Alliance, Inc	HSI00000377	Franciscan St Elizabeth Health	Lafayette	IN
HSI00000388	Geisinger Health System	HSI00000061	Atlanticare Health System	Egg harbor townsh	NJ
HSI00000388	Geisinger Health System	HSI00000489	Holy Spirit Health System	Camp hill	PA
HSI00000439	Hackensack Meridian Health	HSI00000440	Hackensack University Medical Center	Hackensack	NJ
HSI00000439	Hackensack Meridian Health	HSI00000668	Meridian Health	Neptune	NJ
HSI00000452	Hartford Healthcare Corporation	HSI00000494	Hospital Of Central Connecticut	New britain	CT
HSI00000492	HCA	HSI00000233	Coliseum Health System	Macon	GA
HSI00000492	HCA	HSI00000432	HCA Far West	Henderson	NV
HSI00000492	HCA	HSI00000433	HCA Gulf Coast	Houston	TX
HSI00000492	HCA	HSI00000434	HCA HealthOne LLC	Denver	CO
HSI00000492	HCA	HSI00000435	HCA Midwest Health	Kansas city	MO
HSI00000492	HCA	HSI00000436	HCA MountainStar Healthcare	Cottonwood height	UT
HSI00000492	HCA	HSI00000437	HCA Virginia	Richmond	VA
HSI00000492	HCA	HSI00000578	Lewisgale Regional HealthSystem	Salem	VA
HSI00000492	HCA	HSI00000674	Methodist Healthcare System	San antonio	TX
HSI00000492	HCA	HSI00001023	St David's Healthcare	Austin	TX
HSI00000492	HCA	HSI00001101	Tri Star Health	Brentwood	TN
HSI00000475	Henry Ford Health System	HSI00000027	Allegiance Health, Inc	Jackson	MI
HSI00000487	Holy Family Memorial	HSI00000391	Genesis HealthCare System	Zanesville	OH
HSI00000508	Indian Health Service	HSI00000772	Norton Sound Health Corporation	Nome	AK
HSI00000048	Jefferson Health	HSI00000003	Abington Jefferson Health	Abington	PA
HSI00000048	Jefferson Health	HSI00000047	Aria Health	Philadelphia	PA
HSI00000048	Jefferson Health	HSI00000525	Jefferson Health	Radnor	PA
HSI00000048	Jefferson Health	HSI00001094	Thomas Jefferson University Hospitals Inc	Philadelphia	PA
HSI00000531	Johns Hopkins Health System	HSI00000024	All Childrens Hospital	St petersburg	FL
HSI00000584	LifePoint Health	HSI00000265	Conemaugh Health System	Johnstown	PA
HSI00000584	LifePoint Health	HSI00000322	Duke Lifepoint Healthcare	Brentwood	TN
HSI00000584	LifePoint Health	HSI00000481	Highpoint Health System	Gallatin	TN
HSI00000584	LifePoint Health	HSI00000899	Rutherford Regional Health System	Rutherfordton	NC
HSI00000584	LifePoint Health	HSI00001012	Southern Tennessee Regional Health System	Lawrenceburg	TN
HSI00000611	MaineHealth	HSI00000378	Franklin Community Health Network	Farmington	ME
HSI00000611	MaineHealth	HSI00000587	Lincoln County Healthcare	Damariscotta	ME
HSI00000611	MaineHealth	HSI00000609	Maine Behavioral Healthcare	South portland	ME
HSI00000611	MaineHealth	HSI00000817	Pen Bay Healthcare	Rockport	ME

Parent ID	Parent Name	Subsystem ID	Subsystem Name	Subsystem city	Subsystem State
HSI00000611	MaineHealth	HSI00001010	Southern Maine Health Care	Biddeford	ME
HSI00000611	MaineHealth	HSI00001237	Waldo County General Healthcare	Belfast	ME
HSI00000611	MaineHealth	HSI00001254	Western Maine Health	Norway	ME
HSI00000640	MedStar Health	HSI00000641	MedStar Southern Maryland Hospital Center	Clinton	MD
HSI00000691	Mission Health System	HSI00000168	CarePartners Health Services	Asheville	NC
HSI00000721	National Surgical Hospitals, Inc	HSI00000793	Optim Healthcare	Savannah	GA
HSI00000731	New York Presbyterian Healthcare System	HSI00000733	NewYork Presbyterian Hudson Valley Hospital	Cortlandt manor	NY
HSI00000770	Northwestern Medicine	HSI00000551	KishHealth System	Dekalb	IL
HSI00000717	NYU Langone Medical Center	HSI00000602	Lutheran Healthcare	Brooklyn	NY
HSI00000717	NYU Langone Medical Center	HSI00001266	Winthrop-South Nassau University Health System	Mineola	NY
HSI00000784	OhioHealth	HSI00000785	OhioHealth MedCentral	Mansfield	OH
HSI00000807	Palmetto Health	HSI00001114	Tuomey Healthcare System	Sumter	SC
HSI00000826	Piedmont Healthcare, Inc	HSI00000058	Athens Regional Health System	Athens	GA
HSI00000845	Prime Healthcare Services,Inc	HSI00000175	Carondelet Health	Kansas city	MO
HSI00000845	Prime Healthcare Services,Inc	HSI00000915	Saint Clare's Health System	Denville	NJ
HSI00000848	ProMedica Health System	HSI00000586	Lima Memorial Health System	Lima	OH
HSI00000851	Prospect Medical Holdings,Inc	HSI00000030	Alta Hospitals System	Los angeles	CA
HSI00000851	Prospect Medical Holdings,Inc	HSI00000294	Crozer-Keystone Health System	Springfield	PA
HSI00000851	Prospect Medical Holdings,Inc	HSI00000740	Nix Health Care System	San antonio	TX
HSI00000860	Quorum Health Corporation	HSI00000857	QHR	Brentwood	TN
HSI00000862	RCCH HealthCare Partners	HSI00000163	Capella Healthcare	Franklin	TN
HSI00000862	RCCH HealthCare Partners	HSI00000545	KershawHealth	Camden	SC
HSI00000862	RCCH HealthCare Partners	HSI00000950	Saline Memorial Health System	Benton	AR
HSI00000863	RWJBarnabas Health	HSI00000888	Robert Wood Johnson Health Network	New brunswick	NJ
HSI00000924	Saint Joseph Health System	HSI00000285	Covenant Health	Lubbock	TX
HSI00001033	Stanford Health Care	HSI00001220	ValleyCare Health System	Livermore	CA
HSI00001066	Tenet Healthcare Corporation	HSI00000004	Abrazo Health	Phoenix	AZ
HSI00001066	Tenet Healthcare Corporation	HSI00000078	Baptist Health System	Birmingham	AL
HSI00001066	Tenet Healthcare Corporation	HSI00000079	Baptist Health System	San antonio	TX
HSI00001066	Tenet Healthcare Corporation	HSI00000312	Detroit Medical Center	Detroit	MI
HSI00001066	Tenet Healthcare Corporation	HSI00001215	Valley Baptist Health System	Harlingen	TX
HSI00001078	The Cleveland Clinic Health System	HSI00000017	Akron General Health System	Akron	OH
HSI00001089	The University of Chicago Medicine	HSI00000512	Ingalls Health System	Harvey	IL

Parent ID	Parent Name	Subsystem ID	Subsystem Name	Subsystem city	Subsystem State
HSI00001092	ThedaCare, Inc	HSI00000247	Community Health Network	Berlin	WI
HSI00001106	Trinity Health	HSI00000092	BayCare Health System	Clearwater	FL
HSI00001106	Trinity Health	HSI00000486	Holy Cross Health	Silver spring	MD
HSI00001106	Trinity Health	HSI00000597	Lourdes Health System	Camden	NJ
HSI00001106	Trinity Health	HSI00000600	Loyola University Health System	Maywood	IL
HSI00001106	Trinity Health	HSI00000659	Mercy Health	Norton shores	MI
HSI00001106	Trinity Health	HSI00000662	Mercy Health Network	West des moines	IA
HSI00001106	Trinity Health	HSI00000664	Mercy Health System	Conshohocken	PA
HSI00001106	Trinity Health	HSI00000704	Morton Plant Mease Health Care	Clearwater	FL
HSI00001106	Trinity Health	HSI00000709	Mount Carmel Health System	Columbus	OH
HSI00001106	Trinity Health	HSI00000908	Saint Alphonsus Health System	Boise	ID
HSI00001106	Trinity Health	HSI00000918	Saint Francis Care	Hartford	CT
HSI00001106	Trinity Health	HSI00000926	Saint Joseph Mercy Health System	Ypsilanti	MI
HSI00001106	Trinity Health	HSI00000938	Saint Mary's Health Care System	Athens	GA
HSI00001106	Trinity Health	HSI00000989	Sisters Of Providence Health System	Springfield	MA
HSI00001106	Trinity Health	HSI00001027	St Peters Health Partners	Albany	NY
HSI00001106	Trinity Health	HSI00001258	Wheaton Franciscan Healthcare	Wheaton	IL
HSI00001123	UNC Health Care System	HSI00000534	Johnston Health	Smithfield	NC
HSI00001123	UNC Health Care System	HSI00000719	Nash Health Care System	Rocky mount	NC
HSI00001123	UNC Health Care System	HSI00000876	Rex UNC Health Care	Raleigh	NC
HSI00001123	UNC Health Care System	HSI00001124	UNC High Point Regional Health	High point	NC
HSI00001146	UnityPoint Health	HSI00000670	Meriter UnityPoint Health	Madison	WI
HSI00001146	UnityPoint Health	HSI00001147	UnityPoint Trinity	Rock island	IL
HSI00001148	Universal Health Services,Inc	HSI00001091	The Valley Health System	Las vegas	NV
HSI00001156	University Hospitals	HSI00001157	University Hospitals Elyria Medical Center	Elyria	OH
HSI00001156	University Hospitals	HSI00001158	University Hospitals Parma Medical Center	Parma	OH
HSI00001168	University of California Office of the President Health Sciences and Services	HSI00001117	UC Davis Health System	Sacramento	CA
HSI00001168	University of California Office of the President Health Sciences and Services	HSI00001119	UC Irvine Health	Orange	CA
HSI00001168	University of California Office of the President Health Sciences and Services	HSI00001120	UCSD Health System	San diego	CA
HSI00001168	University of California Office of the President Health Sciences and Services	HSI00001161	University Of California San Francisco Health System	San francisco	CA

Parent ID	Parent Name	Subsystem ID	Subsystem Name	Subsystem city	Subsystem State
HSI00001168	University of California Office of the President Health Sciences and Services	HSI00001167	University of California Los Angeles Health System	Los angeles	CA
HSI00001175	University of Maryland Medical System	HSI00001162	University Of Maryland Shore Regional Health	Easton	MD
HSI00001175	University of Maryland Medical System	HSI00001163	University Of Maryland Upper Chesapeake Health	Bel air	MD
HSI00000820	University of Pennsylvania Health System	HSI00000572	Lancaster General Healthcare System	Lancaster	PA
HSI00001179	University of Rochester Medical Ctr	HSI00001095	Thompson Health	Canandaigua	NY
HSI00001165	University Of Texas Health System	HSI00001131	UT Southwestern Medical Center	Dallas	TX
HSI00001165	University Of Texas Health System	HSI00001182	University of Texas MD Anderson Cancer Center	Houston	TX
HSI00001165	University Of Texas Health System	HSI00001183	University of Texas Medical Branch	Galveston	TX
HSI00001126	UPMC	HSI00001127	UPMC Jameson	New castle	PA
HSI00001213	VCU Health System	HSI00000257	Community Memorial Healthcenter	South hill	VA
HSI00001226	Veterans Health Administration	HSI00000997	South Central VA Health Care Network	Ridgeland	MS
HSI00001226	Veterans Health Administration	HSI00001189	VA Capitol Health Care Network	Linthicum	MD
HSI00001226	Veterans Health Administration	HSI00001190	VA Desert Pacific Healthcare Network	Long beach	CA
HSI00001226	Veterans Health Administration	HSI00001191	VA Great Lakes Health Care System	Westchester	IL
HSI00001226	Veterans Health Administration	HSI00001192	VA Health Care Upstate New York	Albany	NY
HSI00001226	Veterans Health Administration	HSI00001193	VA Healthcare System Of Ohio	Cincinnati	OH
HSI00001226	Veterans Health Administration	HSI00001194	VA Heart Of Texas Health Care Network	Arlington	TX
HSI00001226	Veterans Health Administration	HSI00001195	VA Heartland Network	Kansas city	MO
HSI00001226	Veterans Health Administration	HSI00001196	VA Hudson Valley Health Care System	Montrose	NY
HSI00001226	Veterans Health Administration	HSI00001197	VA Maryland Health Care System	Baltimore	MD
HSI00001226	Veterans Health Administration	HSI00001198	VA Mid South Healthcare Network	Nashville	TN
HSI00001226	Veterans Health Administration	HSI00001199	VA Mid-Atlantic Health Care Network	Durham	NC
HSI00001226	Veterans Health Administration	HSI00001200	VA Midwest Health Care Network	Eagan	MN
HSI00001226	Veterans Health Administration	HSI00001201	VA New England Healthcare System	Bedford	MA
HSI00001226	Veterans Health Administration	HSI00001202	VA New Jersey Health Care System	East orange	NJ
HSI00001226	Veterans Health Administration	HSI00001203	VA New York Harbor Healthcare System	New york	NY
HSI00001226	Veterans Health Administration	HSI00001204	VA New York/NJ Veterans Healthcare Network	Bronx	NY
HSI00001226	Veterans Health Administration	HSI00001205	VA Northwest Health Network	Vancouver	WA
HSI00001226	Veterans Health Administration	HSI00001206	VA Rocky Mountain Network	Glendale	CO
HSI00001226	Veterans Health Administration	HSI00001207	VA Sierra Pacific Network	Vallejo	CA
HSI00001226	Veterans Health Administration	HSI00001208	VA Southeast Network Vision 7	Duluth	GA
HSI00001226	Veterans Health Administration	HSI00001209	VA Southwest Health Care Network	Gilbert	AZ

Parent ID	Parent Name	Subsystem ID	Subsystem Name	Subsystem city	Subsystem State
HSI00001226	Veterans Health Administration	HSI00001210	VA Stars & Stripes Healthcare Network	Pittsburgh	PA
HSI00001226	Veterans Health Administration	HSI00001211	VA Sunshine Healthcare Network	Saint petersburg	FL
HSI00001226	Veterans Health Administration	HSI00001212	VA Western New York Healthcare System	Buffalo	NY
HSI00001245	Wellforce Health System	HSI00000598	Lowell General Hospital	Lowell	MA
HSI00001245	Wellforce Health System	HSI00001112	Tufts Medical Center	Boston	MA
HSI00001244	WellStar Health System, Inc	HSI00001248	West Georgia Health System	Lagrange	GA
HSI00001252	Westchester Medical Center	HSI00000123	Bon Secours Charity Health System	Suffern	NY
HSI00001252	Westchester Medical Center	HSI00000459	Health Alliance Of Hudson Valley	Lake katrine	NY

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Appendix D. Alternative Payment Models Data and Methods

Introduction

This appendix describes the data and methods used to construct the variables that indicate whether a health system participated in an accountable care organization (ACO) or a Medicare bundled payment model.

System Participation in Accountable Care Organizations

We used data from the 2016 Torch Insight™ tool to construct measures of system participation in ACOs. The Torch Insight tool is a proprietary data source[i] constructed by collecting information on value-based contracts using a mix of surveys, primary research, integration of public data, and indepth interviews.[ii] Data are collected on participation in ACO contracts at multiple levels, including hospitals, clinics, and providers.

We constructed a system-level variable equal to one if at least one non-Federal general acute care hospital within the system participated in an ACO contract. Thus, it is an indirect measure that describes system participation in ACO contracts measured via systems' hospital participation in ACO contracts.

To construct variables indicating whether a system participated in an ACO contract, we began by matching hospitals in the Torch Insight dataset to ACO contracts. Then, we matched hospitals in this dataset to hospitals in the Compendium system-hospital linkage file (referred to as the "hospital linkage file" in this document).[iii] Finally, we constructed system-level variables equal to one if at least one non-Federal general acute care hospital within the system participated in an ACO contract.

Step 1: Identifying Hospitals in the Torch Insight Data Participating in ACO Contracts

We used three files to identify hospitals participating in ACO contracts:

1. A hospital file that included one observation per hospital,
2. An ACO-hospital join file that included one observation per hospital-ACO dyad, and
3. An ACO file that provided information on ACOs and their contract types.

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[i] Torch Insight is a product of Leavitt Partners, a healthcare intelligence business.

[ii] We obtained information on the Torch Insight dataset and data collection methods from the "Torch Insight: ACO and Value-based Payment Codebook and Overview."

[iii] The Compendium of U.S. Health Systems, the hospital linkage file, and their respective technical documentation can be found at https://www.ahrq.gov/chsp/Compendium/index.html.

By merging these files using unique identifiers included in the Torch Insight data, we created a file listing hospitals and their participation in ACO contract types: commercial, Medicare, and Medicaid.[iv]

Step 2: Matching Hospitals in the Torch Insight Data and the Compendium

Next, we matched hospitals in the Torch Insight data (n=7,498) to the hospitals in the hospital linkage file (n=6,762). We used two approaches to match the hospitals: (1) CMS Certification Number (CCN) matching and (2) name and address matching. We matched 5,856 hospitals in the Torch Insight data via CCN. After we removed hospitals in the Torch Insight data that matched via CCN, most of the unmatched hospitals (81 percent) did not have CCNs.

Next, we identified possible matches via name and address. We allowed a many-to-one match of hospitals listed in the Torch Insight data that did not match via CCN to match to any hospital in the hospital linkage file (including those that already had a CCN match). We took this approach to allow observations in Torch Insight data that are hospital campuses or sub-hospital facilities to match to their respective hospital in the hospital linkage file.

Using the approach described in Chapter III, we applied character-string matching using the SAS COMPGED function to compare the similarity of hospital names, and we used geocoding to determine the linear distance between hospital addresses. We accepted all name and address matches if the SAS COMPGED score was ≤150 and the State matched. In addition, we accepted matches if the linear distance between the hospital street addresses was less than 1/2 mile regardless of name. We identified an additional 1,025 Torch Insight hospital matches this way.

Most matches were one-to-one (n=5,949). We deduplicated the many-to-one matches (n = 932) to return to one observation per hospital in the hospital linkage file (n =6,762). We considered a hospital in the linkage file to participate in an ACO contract if it matched to any of the records in the Torch Insight hospital file that participated in an ACO contract. That is, if any hospital campuses or subhospital facilities in the Torch Insight data that matched to a hospital in the hospital linkage file indicated they participated in an ACO contract, we considered the hospital in the linkage file to participate in that ACO contract.

In most cases, hospitals that matched to a single hospital in the hospital linkage file had identical ACO information, so the aggregation did not change the reported ACO information. For cases in which the ACO information differed (for example, one hospital is reported to participate in an ACO contract and the other is reported to not participate in an ACO contract), we erred on the side of reporting ACO participation. In this example, we reported that the hospital in the hospital linkage file participated in an ACO contract.

After we completed all matching and deduplication, 6,386 (94 percent) of hospitals in the hospital linkage file had a hospital match from the Torch Insight data.

[iv] We merged the hospital and the ACO-hospital join files using “hospital_cms_id_and_name,” and we merged the resulting file with the ACO file using “aco_id_and_name.”

Step 3: Aggregating Hospital Participation in ACOs to the System Level

To construct the system-level ACO indicator variable, we aggregated hospital participation in ACO contracts to the system level using the hospital linkage file. We considered a system to participate in an ACO contract if any of their non-Federal general acute care hospitals participated in an ACO contract.

System Participation in a Medicare Bundled Payment Model

We used publicly available data from the Centers for Medicare & Medicaid Services (CMS) to construct a measure of system participation in a Medicare bundled payment model. Specifically, we examined system participation in the CMS Comprehensive Care for Joint Replacement (CJR) model and the CMS Bundled Payments for Care Improvement (BPCI) initiative.

We constructed a system-level variable equal to one if at least one non-Federal general acute care hospital within the system participated in the CJR model or BPCI initiative. Therefore, our measure of system participation in a Medicare bundled payment model did not capture the participation of non-acute care hospital providers, including physician group practices or rehabilitation hospitals.

The CJR model began on April 1, 2016, and was mandatory for all inpatient prospective payment system providers located in 67 metropolitan statistical areas before February 1, 2018, with few exceptions.[v] We used the "List of CJR Hospitals prior to February 2018" publicly posted on CMS's website to identify participating hospitals. This file provides each hospital's CCN, which we used to match to the hospital linkage file. Among the 800 hospitals in the "List of CJR Hospitals prior to February 2018," 793 matched hospitals in the Compendium.

BPCI comprises four models that link payments for multiple services beneficiaries receive during an episode of care. BPCI Episode Initiators can be general acute care hospitals, skilled nursing facilities, physician group practices, home health agencies, inpatient rehabilitation facilities, and long-term care hospitals. Participants entered into payment arrangements that included financial and performance accountability.

Model 1 participants participated in all Medicare Severity-Diagnosis-Related Groups.[vi] For Models 2, 3, and 4, participants could choose from 48 clinical episodes.[vii] In 2016, BPCI was voluntary and available nationwide.

We used the "Analytic file from Quarter 4 of 2016" to identify health systems with hospitals participating in BPCI. The BPCI file included one observation per awardee and clinical episode;

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[v] Providers participating in Model 1, Model 2, or Model 4 of the BPCI initiative for lower extremity joint replacement episodes were excluded from the CJR model. For more information, go to https://innovation.cms.gov/initiatives/bundled-payments/.

[vi] Our data include one Model 1 awardee. The first cohort of awardees in Model 1 began in April 2013 and concluded on March 31, 2016. The remaining awardee ended participation on December 31, 2016.

[vii] In Model 3, the episode of care is triggered by an acute care hospital stay but begins at initiation of post-acute services with a skilled nursing facility, inpatient rehabilitation facility, long-term care hospital, or home health agency. Therefore, we are not capturing any participation in Model 3 BPCI.

that is, awardees appeared in more than one row in the file if they were participating in more than one of the 48 possible clinical episodes. Awardees are the participants in the model that assume financial liability for the episode spending.

The "Analytic file from Quarter 4 of 2016" contained 12,030 observations, which included general acute care hospitals and specialty hospitals. We excluded all observations that did not include a CCN (n=1,957) and deduplicated the file to one observation per CCN (n=1,086). We then matched the BPCI hospitals to those in the Compendium hospital linkage file via CCN. We matched 363 hospitals in the BPCI file to Compendium hospitals. This process accounted for all of the general acute care hospitals and specialty hospitals participating in BPCI.

To construct a system-level Medicare bundled payment indicator variable, we aggregated hospital participation in BPCI or CJR to the system level using the hospital linkage file. We considered a system to participate in a Medicare bundled payment model if any of their non-Federal general acute care hospitals participated in BPCI or CJR.

Caveats and Limitations

Indirect Measurement of System Participation

Our approach for measuring system participation in ACOs or Medicare bundled payment models relied on indirect measurement of system participation via systems' hospital participation. However, both ACOs and BPCI can have participants at other levels. Therefore, we are not capturing all aspects of systems' participation in these models. For example, if a system had a physician group participant in BPCI, but none of their hospitals had financial liability for the episode spending, the system's participation would not be captured in our variable.

Missing Data

Some systems were missing data on ACO contracts for one or more of their non-Federal general acute care hospitals. Missing values can occur either because a hospital was not included in the Torch Insight dataset or because our approach to matching hospitals failed to identify a relevant match. While individual hospitals had missing information on ACO contracts, when we aggregated the hospital-level information to the system level, all systems included hospital data.

On average, 98 percent of systems' non-Federal general acute care hospitals had ACO data. At the system level, the mean percentage of systems' non-Federal general acute care hospitals with ACO data was 98 percent.

Misalignment of Data Source Time Periods

The Compendium reflects health systems in the United States at the end of 2016. That period differs slightly from the periods represented by the CJR hospital list that represents all hospitals before February 2018. Thus, it is possible that hospitals opened, closed, or changed CCNs between 2016 and 2018 and are not represented in our hospital linkage file.

Appendix E. Insurance Product Data and Methods

Introduction

This appendix describes the data and methods used to construct the variables indicating whether a health system offered any insurance product and whether a health system offered a Medicare Advantage (MA) plan.

System Offers Any Insurance Product

We used the 2015 American Hospital Association (AHA) Annual Survey Database to construct the measure of whether a system offered any insurance product. As described in Chapter II, AHA data are based on an annual survey of hospitals in the United States. The AHA Annual Survey Database provides facility-level data about organizational structure, services, staffing, expenses, system affiliations, and physician arrangements.

We used responses to the following AHA survey question: "Does your hospital, health system or health network have equity interest in any of the following products?" The types of insurance products that a respondent can report are health maintenance organization (HMO), preferred provider organization (PPO), and indemnity fee-for-service plan.

The survey asked whether the hospital or health system had an equity interest in each of those products or a joint venture with an insurer. For example, a hospital could reply that it had an HMO product, and it could reply that its health system had a PPO product.

We constructed a system-level variable equal to one if at least one non-Federal general acute care hospital within the system reported having HMO, PPO, or indemnity fee-for-service activity within their own hospital, within their system, or as a joint venture with an insurer. For example, a system could have been identified as offering an insurance product because one of its hospitals offered an HMO plan, and another system could have been identified as offering an insurance product because one of its hospitals reported that its system had an HMO joint venture with an insurer.

The variable indicating whether a system offered any insurance product represents the broadest possible measure of activity as an insurer based on AHA data, and it produced three mutually exclusive groups:

- Systems that offered any insurance product; that is, at least one hospital in the system reported an insurance product at the hospital or system level or a joint venture with an insurer.
- Systems that had missing data on insurance products for all hospitals; either all of their hospitals that responded to the survey had missing data on insurance products, or their hospitals did not respond to the AHA survey.
- Systems that had at least one hospital with nonmissing data on insurance products and zero hospitals that reported an insurance product at the hospital or system level or a joint venture with an insurer.

System Offers Medicare Advantage Plan

We sought to determine which health systems offered an MA plan, which we defined as equity interest in an MA plan or offering an MA plan through a joint venture with another organization, such as an insurer. The 2015 AHA survey did not identify the type of insurance products a hospital or its system offered, such as MA, Medicaid, or commercial. Thus, we used the publicly available January 2016 MA Plan Directory from the Centers for Medicare & Medicaid Services (CMS) website to construct the measure of whether the system offered an MA plan. The MA Plan Directory lists MA, cost, Program of All-inclusive Care for the Elderly (PACE), and demonstration plans.

To construct a variable indicating whether a system offered an MA plan, we began by identifying MA plans owned by a provider organization, such as a health system, hospital, or medical group. Then, we matched the MA Plan Directory to the Compendium's consolidated list of U.S. health systems, referred to in this appendix as "the list." In doing so, we identified systems that offered an MA plan and the MA contracts associated with each system.

Step 1: Identifying Which Medicare Advantage Plans Were Owned by a Provider Organization

Before matching MA data to the list, we added a variable to the MA data that indicated whether the MA plan was owned by a provider organization. Johnson, et al. (2017) identified MA plans that operated between 2011 and 2015 and were owned by a provider organization, such as a health system, hospital, or medical group.[i] We obtained the contract-level data from the authors and matched those data to the January 2016 MA Plan Directory using contract number.

Of the 687 MA plans in the January 2016 MA Plan Directory, we had data on ownership by a provider organization for 434 MA plans. We were missing data on ownership by a provider organization for 253 MA plans that were not examined by Johnson, et al. (2017), because the plan did not operate from 2011 to 2015 or the plan was not a local coordinated care plan such as an HMO or PPO.[ii]

As we discuss in the next section, we used the measure of provider ownership when we matched CMS data to health systems in the list.

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[i] Johnson G, Lyon Z, Frakt A. Provider-offered Medicare Advantage plans: recent growth and care quality. Health Aff 2017;36(3):539-47.

[ii] Johnson, et al. (2017) measured provider ownership only for local coordinated care plans. In our work, we used all plans in the MA Plan Directory, including local coordinated care plans, section 1876 cost contracts, section 1833 health care prepayment plans, demonstration plans, PACE plans, regional coordinated care plans, and private fee-for-service plans. More information about MA organizations and other Medicare managed health plans is at https://www.cms.gov/Medicare/Health-Plans/HealthPlansGenInfo/index.html.

Step 2: Matching the Medicare Advantage Plan Directory to the Compendium's List of U.S. Health Systems

Data Preparation

To match MA plan parent organization and address to health system name and address, we first processed names and addresses using the following steps:

- Removed all punctuation,
- Converted all text to uppercase,
- Removed multiple spaces in a row,
- Removed "the," "and," and "of" from names,
- Removed "inc," "corp," "corporation," and "company" from names,
- Removed terms such as "c/o" from addresses, and
- Normalized common terms (i.e., system = systems, health care = healthcare, N = north).

Next, we deduplicated the MA data using the variables we later used for matching: parent organization, street, city, and ZIP Code.

For each unique MA parent organization and address, we set the provider ownership variable equal to one if Johnson, et al. (2017) identified any of the individual plans with that MA parent organization and address as being owned by a provider organization. Otherwise, if at least one individual plan with a given MA parent organization and address was identified by Johnson, et al. (2017) as not being owned by a provider organization, we set the provider ownership variable to zero. Finally, if data on provider ownership was missing for all individual MA plans within an MA parent organization and address, we set the provider ownership variable to missing.

Automated Matching

We identified possible matches between the list of health systems and the MA data. We used a combination of name and address matching, via character-string matching and distance-based matching using geocoding, respectively. Since an MA parent organization may match a subsystem of one of the 626 systems on the list, we used an expanded set of systems that included the 626 systems in the list and subsystems of those systems.

Using the approach described in Chapter III, we used the SAS COMPGED function to compare the similarity of health system name and MA parent organization name, and we used geocoding to determine the linear distance between health system address and the MA legal entity's address. As we discussed previously, SAS COMPGED generates a score that reflects the number of deletions, insertions, or replacements needed to make two strings match—the lower the score, the better the match. If a string matches exactly, the SAS COMPGED score is zero. Inserting one character to derive a match results in a score of 100. Adding a punctuation character results in a score of 30.

If the SAS COMPGED score was ≤150 and the geocoded addresses were within 1 mile of each other, then we considered the health system and the MA record to be an exact match. We

identified 15 automated matches. We created a variable "System offers a MA plan" and set it equal to one for each of those 15 matches.

Manual Review of Possible Matches Based on Name, Location, or Name and Location

We used the SAS COMPGED scores and distances between systems to identify additional possible matches for manual review. We manually reviewed possible matches of health systems and MA parent organizations in the following seven categories, where the first category includes the most likely matches:

1. Possible match with a SAS COMPGED score >150 and ≤500 and within 1 mile of each other
2. Possible match with a SAS COMPGED score ≤150 and matching city and State
3. Possible match with a SAS COMPGED score >150 and ≤500 and matching city and State
4. Possible match with a SAS COMPGED score ≤150 on truncated names (to increase the likelihood of a match based on the beginning portion of the name) and matching State
5. Possible match with a SAS COMPGED score ≤150 on truncated names
6. Possible match within 0.5 miles of each other
7. Possible match within 10 miles of each other

For all seven categories of possible matches, we compared the full system name to the full MA parent organization name and compared address information for the system and the MA record. Relative to the first two categories of possible matches, we were less confident in the possible matches in categories three through seven, because their names or addresses were slightly less similar. Therefore, we conducted web searches for possible matches in categories three through seven that Johnson, et al. (2017) identified as being owned by a provider organization or had missing data on whether it was owned by a provider organization. We did not attempt to confirm possible matches that Johnson, et al. (2017) identified as not owned by a provider organization.

When web searching, we looked not only for name and address information but also for information about the health system's or MA parent organization's locations, breadth of the health system's services, and evidence of mergers or acquisitions. Our goal was to confirm that the health system had equity interest in the MA plan or that the MA plan itself was a joint venture between the health system and another organization such as an insurer.

The most useful approach to access this information was to select the "About" or "History" link on the website of the health system, MA parent organization, or MA plan owned by the MA parent organization. We also found corroborating evidence elsewhere, such as Modern Healthcare, news releases on the health system website, and the "About" or "History" link on the website of the MA plan. Table E.1 provides examples of possible matches that we determined to be valid based on manual review.

Table E.1. Examples of manually matched health systems and MA records

Health System or Subsystem Name	MA Parent Organization Name	Distance	SAS COMPGED Score for Full Name (Truncated Name)
Mission Health System	Mission Health	6.3 miles	310 (0)
Marshfield Clinic	Marshfield Clinic Health System, Inc	0.5 miles	510 (0)
Sutter Health	Sutter Health Sacramento Sierra Region	9.4 miles	501 (0)
Catholic Health Initiatives	Catholic Health Initiatives	480 miles	0 (0)
Lourdes Health System	Trinity Health	2.8 miles	501 (501)

Source: 2016 Compendium of U.S. Health Systems and CMS MA Plan Directory, January 2016.

Note: We conducted web searches of each manual match. We used the SAS COMPGED function to compare the similarity of health system name and MA parent organization name.

In eight cases, we used data from the 2016 AIS Directory of Health Plans Snapshot to improve our match between health systems and MA organizations. Specifically, we conducted web searches based on AIS data, and those searches suggested that a particular health system should be matched to a particular CMS record, even though that system and the CMS record had not been selected as a possible match.

After matching using MA parent organization name, we repeated matching using MA organization marketing name and address. That process identified a small number of possible matches that required manual review.

In our primary approach to matching, we selected only one MA record per health system as a possible match. To determine whether that approach prevented us from identifying other matches we should identify, we used an alternative approach to matching in which we allowed each health system to be matched to multiple MA records based on name and address. The alternative approach did not change the final list of health systems that offered an MA plan. The only cases in which a health system was matched to multiple MA records were cases in which the system was matched to two or more records that had the same MA parent organization but different addresses.

Tables E.2 and E.3 at the end of this appendix report the health systems and subsystems that we matched to MA records. These tables include all automated matches and all manual matches that we confirmed through web searches.

Step 3: Constructing Variables for Medicare Advantage Plans and Medicare Advantage Contract Numbers

We created a variable called “System offers a Medicare Advantage plan,” which indicates whether a system offered an MA plan. We set the MA plan variable equal to one for the 15 systems that had automated matches. In addition, we set the MA plan variable equal to one for cases in which we confirmed a possible match of an MA plan to the system or one of its

subsystems. Finally, we set the MA plan variable to zero for systems that did not match MA data.[iii]

In addition, we constructed a variable that included all contract numbers for the CMS parent organization that was matched to a given health system and its subsystems (if applicable). By including contract numbers for the CMS parent organization, a user can link the list to the MA Plan Directory to obtain information about the MA plans such as the organization type, plan type, and enrollment.

Caveats and Limitations

Missing Data

Our analyses suggested that missing AHA data on insurance products was not a major problem for most systems on the list. Among the 626 systems on the list, only 4 percent (26 systems) had no reported information on insurance products for any of the system's non-Federal general acute care hospitals. We examined the percentage of non-Federal general acute care hospitals within a system that were missing insurance product data from the AHA:

- Among the 367 systems that we classified as not having an insurance product, 74 percent (272 systems) were not missing data for any non-Federal general acute care hospitals. Another 12 percent (43 systems) were missing data for at least one hospital but fewer than half of all hospitals in the system. The remaining 14 percent (52 systems) were missing data for more than half of all hospitals in the system. It is possible that some of the 95 systems that were missing data for at least one hospital actually offered an insurance product, even though the AHA survey responses for their hospitals did not indicate that the system offered an insurance product.
- Among the 233 systems that we classified as offering an insurance product, 51 percent (118 systems) were not missing data for any non-Federal general acute care hospitals. Another 41 percent (95 systems) were missing data for at least one hospital but fewer than half of all hospitals in the system. The remaining 8 percent (20 systems) were missing data for at least half of all hospitals in the system. However, since we classified a system as offering an insurance product if at least one hospital in the system reported an insurance product at the hospital or system level or a joint venture with insurers, these missing data do not affect the insurance product variable.

Potential Misalignment of Health System Definitions

As discussed in Chapter II, the AHA definition of a health system has similarities and differences from the Compendium's working definition of a health system. The AHA definition includes purchasing or contracting affiliations. If a hospital reported an insurance product owned by another hospital in a purchasing affiliation and that other hospital was not owned by the system

[iii] A system that offers an MA plan may not offer that plan in all locations where the system offers health care services. Similarly, the MA plan could be available to beneficiaries who live in locations where the system does not offer health care services.

according to the Compendium, then we may have misidentified the system as having an insurance product. We do not think this type of misidentification was common.

Among the 233 systems that we classified as having an insurance product, 142 systems had at least half of their non-Federal general acute care hospitals report an insurance product. In other words, for most systems (61 percent) that had an insurance product, at least half of the non-Federal general acute care hospitals within that system reported an insurance product at the hospital level or system level, or as a joint venture with insurers.

Further, more than half (54 percent) of the 233 systems that we classified as having an insurance product had at least one hospital that reported that the hospital itself had an insurance product. These data suggest that it is unlikely that we incorrectly identified a system as having any insurance product because of misalignment of health system definitions between the AHA and the Compendium.

Measurement Errors in American Hospital Association Survey Responses

AHA data are derived from a cross-sectional survey of more than 6,400 hospitals operating in the United States. Respondents self-report the characteristics and attributes of their hospital, including information on insurance products in which their hospital or system has equity interest or offers a product through a joint venture with insurers. As with all self-reported data, the accuracy of the measure depends on the knowledge of the informant, the salience of the task to the informant, and the meaning the informant ascribes to key terms such as joint venture, system, and equity interest.

Accuracy of Verifying Ownership of a Medicare Advantage Plan

It can be difficult to determine the exact nature of the relationships between an MA parent organization or MA plan and a health system. In particular, it is challenging to determine precisely whether a health system has an equity interest in the MA plan. If inaccuracies exist in the identification of systems offering insurance products, the most likely reason is that we could not confirm that a health system should be matched to a particular CMS record and erroneously identified the system as not having an MA plan. Thus, the variable that indicated whether a system offered an MA plan is a conservative measure.

Misalignment of Data Source Time Periods

The list reflects health systems in the United States at the end of 2016. That time period differed slightly from the time periods represented by the insurance product variables. The AHA data were collected in 2015. The MA data were from January 2016.[iv] As we developed the variables, we identified some cases in which a system sold its MA plan (or its stake in the plan) or closed

[iv] We chose to use January 2016 because we were concerned about missing data in the MA Plan Directory for later months of 2016. For example, 7 percent of the contracts in the November 2016 MA monthly enrollment report were not listed in the MA Plan Directory in the same month. The January 2016 MA Plan Directory did not have such a discrepancy. For more information, go to https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/MCRAdvPartDEnrolData/index.html.

the plan after January 2016. Thus, for some systems, we probably misclassified their ownership of any insurance product or an MA plan because the timing of our data sources were misaligned.

For example, we classified nine systems as offering an MA plan even though those systems did not report an insurance product according to AHA data. This discrepancy could reflect an MA plan that was first offered in 2016, which was after AHA data were collected. The discrepancy could also have appeared because the system's AHA respondents were unaware of the MA plan offered by their system or did not consider the program that we measured as an MA plan to be an insurance product. At least four of the nine systems that did not report an insurance product according to AHA data had a PACE program according to the MA data.

Table E.2. Matches of health systems to CMS MA records using MA parent organization name and address

Health System ID	Health System Name	Health System City	Health System State	MA Parent Organization Name	MA Legal Entity City	MA Legal Entity State	MA Record Linked to Subsystem of Parent Health System
HSI00000044	ArchCare	New York	NY	Catholic Health Care System	New York	NY	0
HSI00000055	Ascension Health	Saint Louis	MO	St Francis Health System & St John Health System	Tulsa	OK	0
HSI00000065	Aultman Health Foundation	Canton	OH	Aultman Health Foundation	Canton	OH	0
HSI00000073	Banner Health	Phoenix	AZ	Banner Health	Tucson	AZ	0
HSI00000074	Baptist Health	Little Rock	AR	USAble Mutual Insurance Company	Little Rock	AR	0
HSI00000080	Baptist Healthcare System, Inc	Louisville	KY	Baptist Healthcare System	Lexington	KY	0
HSI00000096	Baylor Scott and White Health	Dallas	TX	Baylor Scott & White Holdings	Temple	TX	0
HSI00000097	Baystate Health	Springfield	MA	Baystate Health, Inc.	Springfield	MA	0
HSI00000131	Boston Medical Center	Boston	MA	Boston Medical Center Corporation	Boston	MA	0
HSI00000152	CHRISTUS Health	Irving	TX	CHRISTUS Health Plan	Irving	TX	0
HSI00000156	Cambridge Health Alliance	Cambridge	MA	Cambridge Health Alliance	Cambridge	MA	0
HSI00000171	CaroMont Health System	Gastonia	NC	CaroMont Health, Inc.	Gastonia	NC	0
HSI00000183	Catholic Health Initiatives	Englewood	CO	Catholic Health Initiatives	Omaha	NE	0
HSI00000184 (HSI00000183)	Catholic Health Initiatives Saint Vincent Health System (Catholic Health Initiatives)	Little Rock	AR	Catholic Health Initiatives	Little Rock	AR	1
HSI00000187 (HSI00000055)	Catholic Health System (Ascension Health)	Buffalo	NY	Catholic Health System, Inc.	Lackawanna	NY	1
HSI00000192	Centra Health	Lynchburg	VA	Centra Health, Inc.	Lynchburg	VA	0
HSI00000270	Contra Costa Health Services	Martinez	CA	Contra Costa Health Services	Martinez	CA	0

Health System ID	Health System Name	Health System City	Health System State	MA Parent Organization Name	MA Legal Entity City	MA Legal Entity State	MA Record Linked to Subsystem of Parent Health System
HSI00000285 (HSI00000924)	Covenant Health (Saint Joseph Health System)	Lubbock	TX	Covenant Health - Hendrick Medical Center	Austin	TX	1
HSI00000307	Denver Health	Denver	CO	Denver Health and Hospital Authority	Denver	CO	0
HSI00000365	FirstHealth of the Carolinas	Pinehurst	NC	FirstHealth of the Carolinas, Inc.	Pinehurst	NC	0
HSI00000375	Franciscan Alliance, Inc	Mishawaka	IN	Franciscan Alliance, Inc.	Indianapolis	IN	0
HSI00000376	Franciscan Missionaries of Our Lady Health System, Inc	Baton Rouge	LA	Franciscan Missionaries of Our Lady Health System	Baton Rouge	LA	0
HSI00000386	Froedtert and The Medical College of Wisconsin	Milwaukee	WI	Ministry Health Care, Inc.	Menasha	WI	0
HSI00000388	Geisinger Health System	Danville	PA	Geisinger Health System	Danville	PA	0
HSI00000392 (HSI00000055)	Genesys Health System (Ascension Health)	Grand Blanc	MI	Genesys Health System	Grand Blanc	MI	1
HSI00000427	Group Health Cooperative	Seattle	WA	Group Health Cooperative	Seattle	WA	0
HSI00000428	Gundersen Health System	La Crosse	WI	Gundersen Lutheran Health System Inc.	LaCrosse	WI	0
HSI00000461	Health First, Inc	Rockledge	FL	Health First, Inc.	Rockledge	FL	0
HSI00000464	HealthPartners, Inc	Minneapolis	MN	HealthPartners, Inc.	Minneapolis	MN	0
HSI00000471	Hendrick Health System	Abilene	TX	Covenant Health - Hendrick Medical Center	Austin	TX	0
HSI00000475	Henry Ford Health System	Detroit	MI	Henry Ford Health System	Detroit	MI	0
HSI00000506	IASIS Healthcare Corporation	Franklin	TN	IASIS Healthcare	Phoenix	AZ	0
HSI00000510	Indiana University Health	Indianapolis	IN	Indiana University Health	Indianapolis	IN	0
HSI00000513	Inova Health System	Falls Church	VA	Inova Health Systems, Inc.	Fairfax	VA	0
HSI00000514	Inspira Health Network	Mullica Hill	NJ	Inspira Health Network, Inc.	Vineland	NJ	0
HSI00000516	Intermountain Healthcare	Salt Lake City	UT	Intermountain Health Care, Inc.	Murray	UT	0

Health System ID	Health System Name	Health System City	Health System State	MA Parent Organization Name	MA Legal Entity City	MA Legal Entity State	MA Record Linked to Subsystem of Parent Health System
HSI00000531	Johns Hopkins Health System	Baltimore	MD	The Johns Hopkins Health System Corporation	Baltimore	MD	0
HSI00000570	Lakeland Regional Health System	Saint Joseph	MI	PACE of Southwest Michigan, Inc.	St. Joseph	MI	0
HSI00000597 (HSI00001106)	Lourdes Health System (Trinity Health)	Camden	NJ	Trinity Health	Pennsauken	NJ	1
HSI00000615	Maricopa Integrated Health System	Phoenix	AZ	MARICOPA COUNTY SPECIAL HEALTH CARE DISTRICT	Phoenix	AZ	0
HSI00000621	Marshfield Clinic	Marshfield	WI	Marshfield Clinic Health System, Inc.	Marshfield	WI	0
HSI00000636	McLaren Health Care Corp	Flint	MI	McLaren Health Care Corporation	Flint	MI	0
HSI00000640	MedStar Health	Columbia	MD	Medstar Health, Inc.	Baltimore	MD	0
HSI00000654	Memorial Hermann Healthcare System	Houston	TX	Memorial Hermann Healthcare System	Houston	TX	0
HSI00000659 (HSI00001106)	Mercy Health (Trinity Health)	Norton Shores	MI	LifeCircles	Muskegon	MI	1
HSI00000688 (HSI00000055)	Ministry Healthcare (Ascension Health)	Milwaukee	WI	Ministry Health Care, Inc.	Menasha	WI	1
HSI00000691	Mission Health System	Asheville	NC	Mission Health	Asheville	NC	0
HSI00000713	Mountain States Health Alliance	Johnson City	TN	Mountain States Health Alliance	Johnson City	TN	0
HSI00000730	New York City Health and Hospitals Corporation	New York	NY	New York City Health and Hospitals Corporation	New York	NY	0
HSI00000807	Palmetto Health	Columbia	SC	Palmetto Health Alliance	Columbia	SC	0
HSI00000820	University of Pennsylvania Health System	Philadelphia	PA	New Courtland LIFE Program	Philadelphia	PA	0
HSI00000833	Pomona Valley Hospital Medical Center	Pomona	CA	InterValley Health Plan	Pomona	CA	0
HSI00000843	Presbyterian Healthcare Services	Albuquerque	NM	Presbyterian Healthcare Services	Albuquerque	NM	0

Health System ID	Health System Name	Health System City	Health System State	MA Parent Organization Name	MA Legal Entity City	MA Legal Entity State	MA Record Linked to Subsystem of Parent Health System
HSI00000848	ProMedica Health System	Toledo	OH	Promedica Health System	Maumee	OH	0
HSI00000852	Providence Health and Services	Renton	WA	Providence Health & Services	Seattle	WA	0
HSI00000874	Renown Health	Reno	NV	Renown Health	Reno	NV	0
HSI00000883	Riverside Health System	Newport News	VA	Riverside Healthcare Association	Newport News	VA	0
HSI00000889	Rochester Regional Health System	Rochester	NY	Rochester General Health System	Rochester	NY	0
HSI00000902	SSM Health	Saint Louis	MO	SSM Healthcare Corporation	Madison	WI	0
HSI00000911	Saint Bernards Healthcare	Jonesboro	AR	St. Bernard's Healthcare	Jonesboro	AR	0
HSI00000919	Saint Francis Health System	Tulsa	OK	St Francis Health System & St John Health System	Tulsa	OK	0
HSI00000951	Samaritan Health Services	Corvallis	OR	Samaritan Health Services	Corvallis	OR	0
HSI00000958	Sanford Health	Sioux Falls	SD	Sanford Health Plan	Sioux Falls	SD	0
HSI00000972	Sentara Healthcare	Norfolk	VA	Sentara Health Care (SHC)	Norfolk	VA	0
HSI00000977	Sharp HealthCare	San Diego	CA	Sharp Healthcare	San Diego	CA	0
HSI00001020	Spartanburg Regional Healthcare System	Spartanburg	SC	Spartanburg Regional Health Services District, Inc	Greenville	SC	0
HSI00001021	Spectrum Health	Grand Rapids	MI	Spectrum Health System	Grand Rapids	MI	0
HSI00001033	Stanford Health Care	Stanford	CA	Stanford Health Care	Oakland	CA	0
HSI00001043	Summa Health System	Akron	OH	Summa Health System	Akron	OH	0
HSI00001050	Sutter Health	Sacramento	CA	Sutter Health Sacramento Sierra Region	Sacramento	CA	0
HSI00001066	Tenet Healthcare Corporation	Dallas	TX	Tenet Healthcare Corporation	Harlingen	TX	0
HSI00001074	The Carle Foundation	Urbana	IL	The Carle Foundation	Urbana	IL	0
HSI00001106	Trinity Health	Livonia	MI	Trinity Health	Wilmington	DE	0
HSI00001116	UAB Health System	Birmingham	AL	UAB Health System	Birmingham	AL	0
HSI00001126	UPMC	Pittsburgh	PA	UPMC Health System	Pittsburgh	PA	0

Health System ID	Health System Name	Health System City	Health System State	MA Parent Organization Name	MA Legal Entity City	MA Legal Entity State	MA Record Linked to Subsystem of Parent Health System
HSI00001146	UnityPoint Health	West Des Moines	IA	St. Luke's Health System, Inc.	Sioux City	IA	0
HSI00001148	Universal Health Services, Inc	Norristown	PA	Universal Health Services, Inc.	Reno	NV	0
HSI00001175	University of Maryland Medical System	Baltimore	MD	Riverside Health, Inc.	Timonium	MD	0
HSI00001213	VCU Health System	Richmond	VA	Virginia Cwlth University Hlth System Authority	Richmond	VA	0
HSI00001227 (HSI00000055)	Via Christi Health System (Ascension Health)	Wichita	KS	Via Christi Outreach Pgrm. Elders, Inc	Wichita	KS	1

Source: 2016 Compendium of U.S. Health Systems and CMS MA Plan Directory, January 2016.

Note: In a few cases, we matched an MA record to a subsystem of a parent health system from the consolidated list of 626 systems. That subsystem was aggregated to the parent system so that the parent system was identified as offering an MA plan. In these cases, we provide the ID, name, city, and State for the subsystem, and we provide the ID and name of the parent system in parentheses.

Table E.3. Matches of health systems to CMS MA records using MA organization marketing name and address

Health System ID	Health System Name	Health System City	Health System State	MA Organization Marketing Name	MA Legal Entity City	MA Legal Entity State	MA Record Linked to Subsystem of Parent Health System
HSI00000536	Kaiser Permanente	Oakland	CA	Kaiser Permanente	Oakland	CA	0
HSI00000842 (HSI00000183)	Premier Health (Catholic Health Initiatives)	Dayton	OH	Premier Health Plan	Dayton	OH	1

Source: 2016 Compendium of U.S. Health Systems and CMS MA Plan Directory, January 2016.

Note: In a few cases, we matched an MA record to a subsystem of a parent health system from the consolidated list of 626 systems. That subsystem was aggregated to the parent system so that the parent system was identified as offering an MA plan. In these cases, we provide the ID, name, city, and State for the subsystem, and we provide the ID and name of the parent system in parentheses.

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Appendix F. Data Dictionary

Variable name	Variable Type	Description
health_sys_id	Character	Unique system ID (assigned by Mathematica)
health_sys_name	Character	Health system name
health_sys_city	Character	Health system city
health_sys_state	Character	Health system State
in_hcos	Numeric	Flag for whether the system appears in the HCOS data
in_ska	Numeric	Flag for whether the system appears in the SK&A data
in_aha	Numeric	Flag for whether the system appears in the AHA data
ims_org_id	Character	HCOS system ID
ihs_id	Character	SK&A system ID
aha_id	Character	AHA system ID
total_mds	Numeric	Total number of physicians
prim_care_mds	Numeric	Total number of primary care physicians
grp_cnt	Numeric	Total number of medical groups
hosp_cnt	Numeric	Total number of hospitals
acutehosp_cnt	Numeric	Total number of non-Federal general acute care hospitals
sys_multistate	Numeric	Multistate system flag: 1=system hospitals located in one state, 2=system hospitals located in two states, 3=system hospitals located in 3 or more states
sys_beds	Numeric	Number of beds per system
sys_dsch	Numeric	Number of discharges per system
sys_res	Numeric	Number of interns and residents per system in non-Federal general acute care hospitals
maj_inv_owned	Numeric	Predominantly investor-owned hospitals flag: 1=yes, 0=no
deg_children	Numeric	Degree to which health systems serves children: 0=no children's hospitals, 1=at least one children's hospital but not predominantly delivering care at children's hospitals, 2=predominantly delivering care at children's hospitals
sys_incl_majteachhosp	Numeric	System includes at least one major teaching hospital: 1=yes, 0=no
sys_incl_vmajteachhosp	Numeric	System includes at least one very major teaching hospital: 1=yes, 0=no
sys_teachint	Numeric	Systemwide teaching intensity: 0=nonteaching, 1=minor teaching, 2=major teaching
sys_incl_highdpphosp	Numeric	System includes at least one high DSH patient percentage hospital: 1=yes, 0=no
sys_highucburden	Numeric	Systemwide uncompensated care burden flag: 1=yes, 0=no
sys_incl_highuchosp	Numeric	System includes at least one high uncompensated care burden hospital: 1=yes, 0=no

Variable name	Variable Type	Description
sys_acoany	Numeric	System participates in at least one ACO contract: 1=yes, 0=no
sys_bundledpayment	Numeric	System participates in a Medicare bundled payment program: 1=yes, 0=no
sys_anyins_product	Numeric	System offers any insurance product: 1=yes, 0=no
sys_ma_plan	Numeric	System offers a Medicare Advantage plan: 1=yes, 0=no
sys_ma_plan_contracts	Character	Medicare Advantage plan contract numbers