



**MONAHRQ**

**Input your data. Output your website.**

**MONAHRQ<sup>®</sup> 6.0 Build 2**

**Quick Start Guide for Host Users**

July 2015



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## OVERVIEW

This *Quick Start Guide* summarizes the steps for installing MONAHRQ® and generating a MONAHRQ reporting website. It highlights where MONAHRQ 6.0 Build 2 differs from previous versions and supports Host Users in installing MONAHRQ and creating their MONAHRQ-generated website.

MONAHRQ 6.0 Build 2 builds upon the 6.0 release and adds new hospital quality measures. MONAHRQ 6.0 supports new data sources (e.g., CMS Nursing Home Compare data and CMS Physician data) and new report features including utilization trending reports and reports based on Geographic Information Systems (GIS). MONAHRQ 6.0 expanded the use of libraries, where multiple versions of a dataset can be stored (e.g., same dataset but for different time periods), measure and report attributes can be customized and saved, and multiple versions of the generated website can be stored as well (e.g., for different audiences). MONAHRQ 6.0 Build 2 has additional reporting options and has been expanded to produce a website solely for the consumer audience. For more details about MONAHRQ features, including what's new in MONAHRQ 6.0 Build 2, please see the *Release Notes for 6.0. Build 2*. For more information about using MONAHRQ, see the *MONAHRQ® 6.0 Build 2 Host User Guide*. These documents are available on the MONAHRQ Resources web page: [http://monahrq.ahrq.gov/monahrq\\_resources.shtml](http://monahrq.ahrq.gov/monahrq_resources.shtml).

Table 1 shows the data and measures needed to create each reporting path in the MONAHRQ-generated website.

**Table 1. Data and Measures for MONAHRQ 6.0 Build 2 Paths**

MONAHRQ Path	Data and Measures	Source of Data or Software to Generate Data
County Rates of Hospital Use	<ul style="list-style-type: none"> <li>Inpatient Hospital Discharge data</li> </ul>	<ul style="list-style-type: none"> <li>Host User's organization</li> </ul>
Utilization–Hospital Inpatient	<ul style="list-style-type: none"> <li>Inpatient Hospital Discharge data</li> </ul>	<ul style="list-style-type: none"> <li>Host User's organization</li> </ul>
Utilization–Emergency Department (ED)	<ul style="list-style-type: none"> <li>Combination of Inpatient Hospital Discharge data and ED Treat-and-Release data</li> </ul>	<ul style="list-style-type: none"> <li>Host User's organization</li> </ul>
Hospital Quality	<ul style="list-style-type: none"> <li>CMS Hospital Compare data and Provider-Level AHRQ Quality Indicator™ (QI) results</li> </ul>	<ul style="list-style-type: none"> <li>AHRQ QI software using data from the Host User's organization</li> <li>MONAHRQ website</li> </ul>
Avoidable Hospital Stays	<ul style="list-style-type: none"> <li>Area-level AHRQ Quality Indicator results</li> </ul>	<ul style="list-style-type: none"> <li>AHRQ QI software using data from the Host User's organization</li> </ul>
Hospital Profile Report (Utilization Tab)	<ul style="list-style-type: none"> <li>Medicare Provider Charge data—Inpatient</li> </ul>	<ul style="list-style-type: none"> <li>MONAHRQ website</li> </ul>
Cost and Quality Report—Side By Side Display	<ul style="list-style-type: none"> <li>Provider-level AHRQ Quality Indicator (QI) results alongside volume and cost data</li> </ul>	<ul style="list-style-type: none"> <li>AHRQ QI software using data from the Host User's organization</li> <li>MONAHRQ website</li> </ul>
Nursing Home Quality	<ul style="list-style-type: none"> <li>CMS Nursing Home Compare data</li> </ul>	<ul style="list-style-type: none"> <li>CMS</li> </ul>

MONAHRQ Path	Data and Measures	Source of Data or Software to Generate Data
Physician Data	<ul style="list-style-type: none"> <li>• CMS Physician data (general information such as: name, gender, specialty, medical practice name and address, hospital affiliation, medical school name, and group practice or individual's current location)</li> </ul>	<ul style="list-style-type: none"> <li>• CMS</li> </ul>
Provider of Services (POS) file	<ul style="list-style-type: none"> <li>• Preloads hospitals for your State(s) in MONAHRQ and used for constructing the Hospital Profile page</li> </ul>	<ul style="list-style-type: none"> <li>• <a href="http://www.cms.gov/Research-Statistics-Data-and-Systems/Files-for-Order/NonIdentifiableDataFiles/ProviderofServicesFile.html">http://www.cms.gov/Research-Statistics-Data-and-Systems/Files-for-Order/NonIdentifiableDataFiles/ProviderofServicesFile.html</a></li> </ul>

## USING MONAHRQ® 6.0 Build 2

This section provides instructions for installing MONAHRQ, loading data, and generating a website. Specific chapters in the *MONAHRQ® 6.0 Build 2 Host User Guide*—where detailed, step-by-step instructions can be found—are referenced below.

### Installing MONAHRQ®

If you have MONAHRQ 5.0 or 6.0 installed on your machine, when upgrading to MONAHRQ 6.0 Build 2, uninstalling prior versions is not required. MONAHRQ 6.0 Build 2 has the most robust feature set and full technical support is available. From the Windows® Start Menu, go to the Control Panel and select “Add or Remove Programs.” (For detailed instructions, please refer to Chapter 2 of the *MONAHRQ® 6.0 Build 2 Host User Guide*.)

**Step 1:** Prepare the computing environment with the following:

- A MONAHRQ-compatible Windows operating system. MONAHRQ is supported on the following operating systems: Windows XP 32- and 64-bit; Windows Server 2003 or higher 32- and 64-bit; Windows 7 32- and 64-bit; and Windows 8 32- and 64-bit.
- The free Microsoft® .NET Framework 4.5: <http://www.microsoft.com/en-us/download/details.aspx?id=30653>.
- Microsoft SQL Server® 2008 or 2012 or the free SQL Server Express 2008 or 2012.

Download and run the MONAHRQ 6.0 Build 2 installation package available on the MONAHRQ website: <http://monahrq.ahrq.gov/download.shtml>. During this process, you will need to create a new MONAHRQ database or connect to an existing one using the Database Manager in MONAHRQ. (See Appendix C of the *MONAHRQ® 6.0 Build 2 Host User Guide* for details about setting permissions to install MONAHRQ and creating or connecting to an existing MONAHRQ database.)

Decide what type of website to create based on your target audience(s), as reports available through MONAHRQ are audience-specific. (For more information, refer to Section 1.3 of the *MONAHRQ® 6.0 Build 2 Host User Guide*.)

**Step 2:** Prepare libraries and input data files to load into MONAHRQ. Decide which health care data file and/or quality measure results to report. (See Chapter 3 of the *MONAHRQ® 6.0 Build 2 Host*

*User Guide* for information about which data and measures are needed for each reporting path. See Appendix F for an overview of each type of data as well as detailed instructions about how to prepare the data and measures to be loaded into MONAHRQ.) Note: MONAHRQ 6.0 Build 2 is flexible; you can install only one data file and generate a website, or install incrementally, generating more extensive websites in a stepwise fashion.

**Datasets Library:** Prepare the files of health care data and/or quality measure results to import into the MONAHRQ database. These may include one or more of the following:

- **Inpatient Hospital Discharge Data.** MONAHRQ allows Host Users to supply their own Inpatient Hospital Discharge data, if available. MONAHRQ helps map these data to the appropriate format to support a MONAHRQ website. This includes the option to link the ED Indicator field from the Inpatient Hospital Discharge Data file to the ED Treat-and-Release data. For more details see Appendix F of the *MONAHRQ® 6.0 Build 2 Host User Guide*.
- **ED Treat-and-Release Data.** MONAHRQ allows the Host User to supply ED Treat-and-Release data, if available. MONAHRQ helps map these data to the appropriate format to support a MONAHRQ website. For more details see Chapter 3 and Appendix I of the *MONAHRQ® 6.0 Build 2 Host User Guide*.
- **CMS Hospital Compare Data.** CMS calculates the Hospital Compare data and makes these data publicly available on the Hospital Compare website in downloadable files. The MONAHRQ project team obtains these downloadable files, reformats them for import into MONAHRQ, and posts them on the MONAHRQ website for use by Host Users.
- **AHRQ Quality Indicators™.** MONAHRQ allows Host Users to calculate the AHRQ Quality Indicator results using Inpatient Hospital Discharge data obtained locally. AHRQ provides two tools to calculate the AHRQ QI results: the QI Windows® software (WinQI) and the SAS QI® software. For more information about the AHRQ QIs, see <http://www.qualityindicators.ahrq.gov/>. After calculating the AHRQ Quality Indicator results, follow the instructions in the *MONAHRQ® 6.0 Build 2 Host User Guide* to save the results in a format that can be loaded into MONAHRQ. For more details see Appendix J of the *MONAHRQ® 6.0 Build 2 Host User Guide*.
- **Medicare Provider Charge Data: Inpatient.** MONAHRQ supports reporting capabilities using the Medicare Provider Charge Data: Inpatient file. This file is publicly available and includes hospital-specific charges for more than 3,000 U.S. hospitals. For more details see Appendix F of the *MONAHRQ® 6.0 Build 2 Host User Guide*.
- **CMS Nursing Home Compare (NHC) Data.** MONAHRQ enables Host Users to upload Nursing Home Compare data to MONAHRQ, configure measures, and customize reports to include a Nursing Home reporting path in their MONAHRQ-generated website. The Nursing Home Compare data are available to download from the CMS website: <https://data.medicare.gov/data/nursing-home-compare>
- **CMS Physician Data.** MONAHRQ supports reports with physicians' general information such as: name, gender, specialty, medical practice name and address, hospital affiliation, medical school name, and group practice or individual's current location. MONAHRQ will pull CMS Physician data from Application Programming Interface (API) services provided by the CMS website: <http://data.medicare.gov>.

**Measures Library:** This library contains the measures supported by MONAHRQ and used for reporting. The Host User can use the standard evidence-based measure attributes provided by MONAHRQ or customize them to meet local needs and priorities for displaying measure results. For more details see Chapter 6 of the *MONAHRQ 6.0 Build 2 Host User Guide*.

**Reports Library:** This library contains the reports supported by MONAHRQ. The Host User can use standard evidence-based report attributes such as display name, columns to be included in the reports, and others, or customize them to meet local needs and priorities. For more details see Chapter 7 of the *MONAHRQ® 6.0 Build 2 Host User Guide*.

**Step 3:** Define hospitals and regions. Define the geographic location for the Host User website by choosing Dartmouth Atlas Hospital Referral Regions (HRRs) or Hospital Service Area (HSA) or use a custom-defined region. Geographic location will be applied to nursing homes and physicians if developing multiple care setting websites. Configuration files include the following:

- Region definitions
- Hospital definitions

For more details on hospital definitions and creating and organizing hospital geographic regions for datasets, see Chapter 5 of the *MONAHRQ® 6.0 Build 2 Host User Guide*.

**Step 4:** Create a website. MONAHRQ allows Host Users to create and store multiple websites. Host Users start this process by defining the website name, a target audience, and a reporting time period.

- Select the health care datasets and quality measure results from the Datasets Library (see above) to be loaded into MONAHRQ. For more details see Appendix F of the *MONAHRQ® 6.0 Build 2 Host User Guide*.
- Choose and customize measure attributes based on your local priorities.
- Select the reports to be included in your website based on the target audience selected (consumer, health care professional, or both).

**Step 5:** Define and customize website. Define attributes such as—

- Website title
- Geographic description
- Logo image to be displayed on each web page
- Banner to be displayed on each web page
- Color and font styles used throughout the generated website

For more details see Chapter 8 of the *MONAHRQ® 6.0 Build 2 Host User Guide*. MONAHRQ 6.0 Build 2 offers additional customization options, including the ability to—

- Apply robust search engine optimization strategies by adding tailored keywords to help website visitors or End Users locate your site
- Customize the website by providing “About Us” text to describe the Host User’s organization
- Apply website generation validation error checking and notifications
- Gather and report on web usage analytics

**Step 6:** Publish the website. This is the final step in producing a MONAHRQ-generated website. Run the “dependency check” to identify any missing pieces or inconsistencies that need to be fixed before the website is published. Once the dependency check is completed, MONAHRQ writes the website files to a local directory specified by the Host User.

**Step 7:** Host the website. Upload the MONAHRQ-generated website to a web server.

- Transfer the MONAHRQ-generated website to a web server or other hosting environment. Compress the website files, transfer them, and extract them, all while preserving the directory structure. To host a MONAHRQ-generated website, only a web server is needed. A database connection, application server, or other special hosting environment is not needed.
- You can easily update your MONAHRQ-generated websites as new data versions become available. You may use this feature to generate a new version of your website as new data years become available. An existing website can be used to create a new website and retain all of the settings, including the customization used in the existing website. Some Host Users choose to refresh their existing websites as new data become available.

## **TECHNICAL SUPPORT**

For questions or comments about using MONAHRQ, please contact MONAHRQ Technical Assistance at [MONAHRQ@ahrq.gov](mailto:MONAHRQ@ahrq.gov).