

How to Use CDC's Interactive Atlas of Heart Disease and Stroke to Get Cardiac Rehabilitation Data

July 2023

Cardiac Rehabilitation Can Improve Health, But Is Underused

Cardiac rehabilitation (CR) can help people who are recovering from a heart attack, heart failure, or other heart problem that required surgery or medical care. CR programs include physical activity, education about healthy living, and counseling.

Despite the many benefits, CR programs are underused. The [Million Hearts®/AACVPR Cardiac Rehabilitation Change Package](#) provides information to help improve referral, enrollment, participation, and completion rates for these programs. It can help CR programs, hospitals, and public health staff put systems and strategies into place to improve the health of eligible patients.

How the Atlas Can Help Get More People Into CR Programs

One resource that can be used to increase the use of CR programs is CDC's [Interactive Atlas of Heart Disease and Stroke](#). This free online tool allows users to create and customize county-level maps of heart disease and stroke data across the United States.

In 2022, the Atlas began including data on the use of CR programs among Medicare Part B fee-for-service beneficiaries. Maps created with these data can be used to identify possible gaps in comprehensive cardiovascular care. This information can then be used to identify ways to get more people into CR programs.

Specifically, users can create maps that show the following:

- Eligibility rate for Medicare beneficiaries who have a primary qualifying event or diagnosis defined by the [Million Hearts Outpatient Cardiac Rehabilitation Use Surveillance Methodology](#). Qualifying events or diagnoses include acute myocardial infarction, coronary artery bypass graft surgery, heart valve repair or replacement procedure, percutaneous coronary intervention or coronary stenting, and heart or heart-lung transplant.
- Participation rate for beneficiaries who attended one or more CR sessions within 365 days of a qualifying event.
- Completion rate for beneficiaries who initiated participation and attended 36 or more CR sessions.
- Mean number of CR sessions attended by beneficiaries who initiated CR participation within 365 days of a qualifying event.

The Atlas also includes a filter that allows users to layer maps with additional data, such as the location of hospitals with CR services (from the American Hospital Association's Annual Survey Database™). Other tools allow users to compare different sets of data.

The following sections explain how to use the Atlas to create maps with relevant data to help improve referral, enrollment, participation, and completion rates for CR programs.

How to Find the Eligibility Rate for CR Programs

You can use the Atlas to map the CR eligibility rate of Medicare beneficiaries by county. This information can help you assess the potential demand for CR services across the United States.

You can use the **Overlay Features** filter to add information about the locations of hospitals with CR services. See the **How to Add Hospitals With CR Services to a Map** section for more information.

You can also use the **Compare Layers** tool to compare two sets of data. For example, you can compare the eligibility rate to the participation rate among eligible beneficiaries. This information can identify areas where the demand for CR is not being met. See the **How to Compare Data** section for more information.

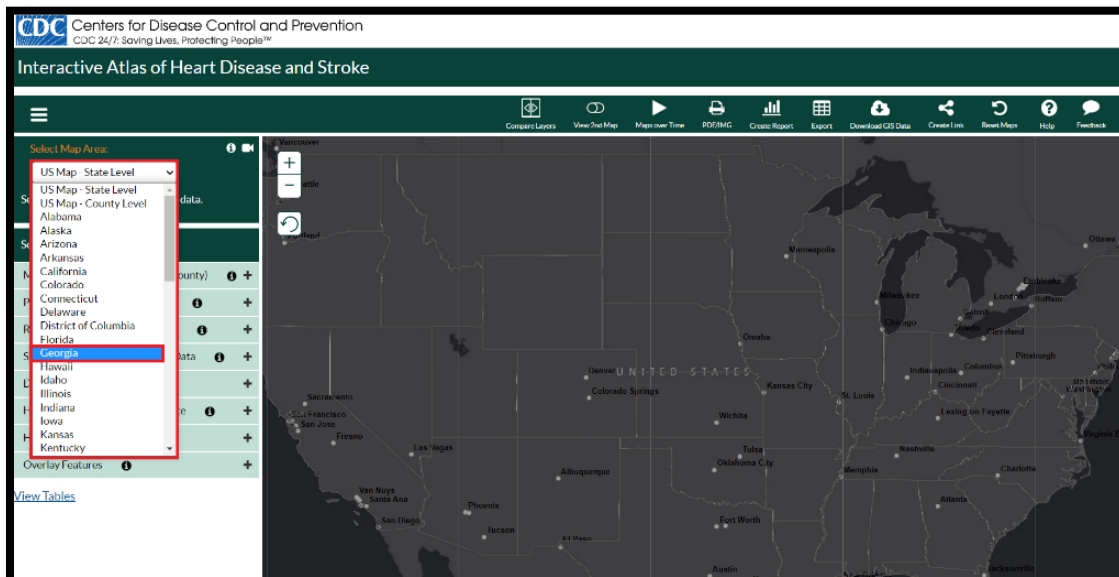
Areas with higher rates of eligibility and lower rates of participation may benefit from strategies designed to improve program referral and enrollment.

Step 1

Go to the [Interactive Atlas of Heart Disease and Stroke](#) website. You can launch the Atlas in one of three ways. You can click on the **US Map - County Level** link above the map, click on a state on the map, or select a state from the drop-down list below the map.

Step 2

If you select the **US Map - County Level** link, you can choose a state by clicking on the **Select Map Area** box in the top left corner.



Step 3

Click on the **Health Care Delivery and Insurance** tab on the left navigation bar, then select **Cardiac Rehabilitation Use**.

The screenshot shows a map interface with a dark green header. At the top, it says "Select Map Area:" with a dropdown menu set to "Georgia". Below this are two checkboxes: "Show Counties" (checked) and "Show Census Tracts" (unchecked). The main section is titled "Select data and filter options:" and contains a list of data categories. The "Health Care Delivery and Insurance" category is circled in red. Below it, "Cardiac Rehabilitation Use" is highlighted with a red arrow. Other categories include Mortality, Hospitalization; Prevalence; Risk Factors; Social, Economic, Environmental Data; Demographics; Blood Pressure Medication; Cholesterol-Lowering Medication; Cholesterol Screening; Hospitals and Pharmacies; Physicians and Specialists; Insurance; Health Care Costs; and Overlay Features.

| Category | Info Icon | Plus/Minus Icon |
|--|-----------|-----------------|
| Mortality, Hospitalization (state, county) | + | + |
| Prevalence (county, census tract) | + | + |
| Risk Factors (county, census tract) | + | + |
| Social, Economic, Environmental Data | + | + |
| Demographics (county, census tract) | + | + |
| Health Care Delivery and Insurance | + | - |
| Blood Pressure Medication | | + |
| Cholesterol-Lowering Medication | | + |
| Cholesterol Screening | | + |
| Cardiac Rehabilitation Use | | + |
| Hospitals and Pharmacies | | + |
| Physicians and Specialists | | + |
| Insurance | | + |
| Health Care Costs (county) | + | + |
| Overlay Features | + | + |

Step 4

The **Cardiac Rehabilitation Use** bar will open to show four subtopic options.

The screenshot shows a dark green sidebar with the following sections:

- Select Map Area:** A dropdown menu set to "Georgia".
- Show Counties:** Checked checkbox.
- Show Census Tracts:** Unchecked checkbox.
- Select data and filter options:** A list of data categories with expand/collapse icons.

| Data Category | Info Icon | Expand/Collapse Icon |
|--|-----------|----------------------|
| Mortality, Hospitalization (state, county) | 📘 | + |
| Prevalence (county, census tract) | 📘 | + |
| Risk Factors (county, census tract) | 📘 | + |
| Social, Economic, Environmental Data | 📘 | + |
| Demographics (county, census tract) | 📘 | + |
| Health Care Delivery and Insurance | 📘 | - |
| Blood Pressure Medication | | + |
| Cholesterol-Lowering Medication | | + |
| Cholesterol Screening | | + |
| Cardiac Rehabilitation Use | | - |

The **Cardiac Rehabilitation Use** dropdown menu is open, showing the following subtopics:

- Eligibility Rate
- Participation Rate Among Eligible (%)
- Completion Rate Among Initiators (%)
- Mean Number of Sessions Used Among Initiators

Step 5

Click on **Eligibility Rate**. The Atlas will create a map with rates of eligible CR program beneficiaries per 1,000 beneficiaries for each county in the selected state.

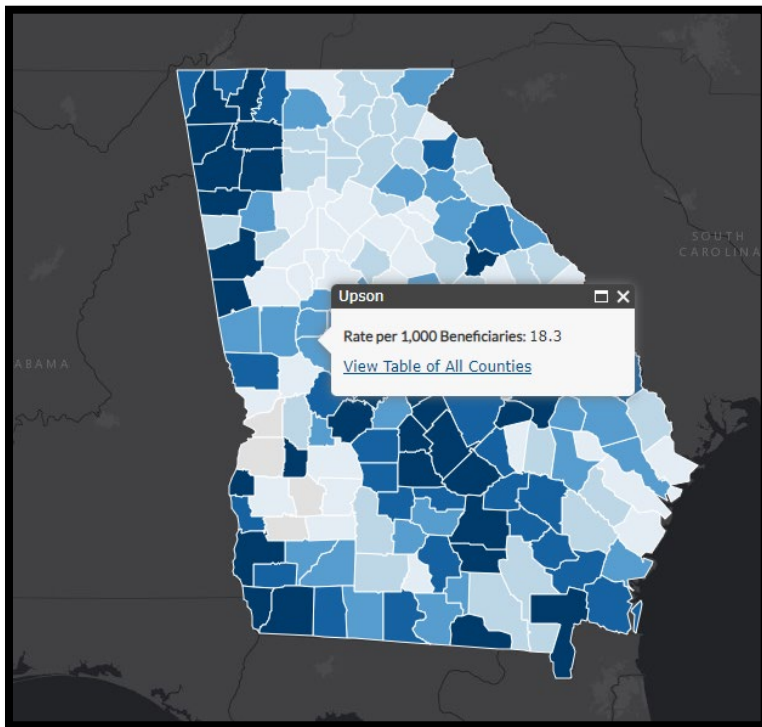
The screenshot shows the Atlas interface with the following elements:

- Select Map Area:** A dropdown menu showing "Georgia".
- Show Counties:** A checked checkbox.
- Show Census Tracts:** An unchecked checkbox.
- Select data and filter options:** A list of data categories with expand/collapse icons (+/-) and information icons (i).

| Data Category | Expand/Collapse Icon | Information Icon |
|---|----------------------|------------------|
| Mortality, Hospitalization (state, county) | + | i |
| Prevalence (county, census tract) | + | i |
| Risk Factors (county, census tract) | + | i |
| Social, Economic, Environmental Data | + | i |
| Demographics (county, census tract) | + | i |
| Health Care Delivery and Insurance | - | i |
| Blood Pressure Medication | + | |
| Cholesterol-Lowering Medication | + | |
| Cholesterol Screening | + | |
| Cardiac Rehabilitation Use | - | |
| Eligibility Rate | | |
| Participation Rate Among Eligible (%) | | |
| Completion Rate Among Initiators (%) | | |
| Mean Number of Sessions Used Among Initiators | | |

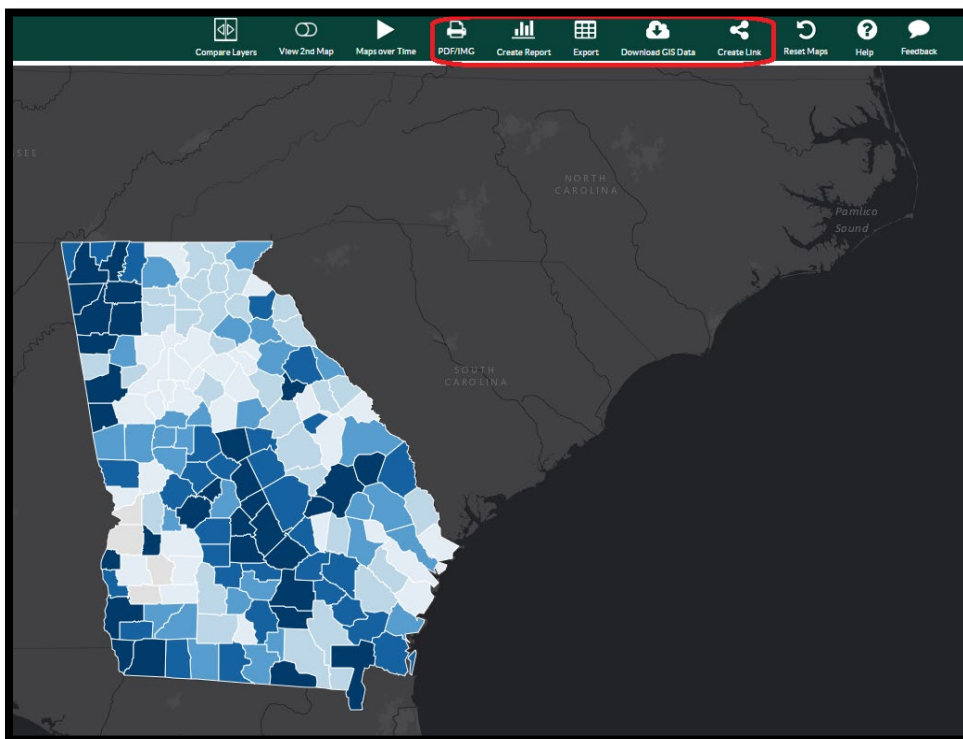
Step 6

Click on the county of interest to see the eligibility rate in that county.



Step 7

Use the tools at the top of the page to create a PDF or shareable link of your map. You can also export or download the data.



How to Find the Participation Rate for Eligible Beneficiaries for CR Programs

You can use the Atlas to map the CR participation rate of eligible Medicare beneficiaries by county. This information can help you identify counties, states, and regions with higher or lower rates of participation.

You can use the **Overlay Features** filter to add information about the locations of hospitals with CR services. See the **How to Add Hospitals With CR Services to a Map** section for more information.

You can also use the **Compare Layers** tool to compare two sets of data. For example, you can compare the participation rate to the completion rate among beneficiaries who initiated participation. This information can identify areas where the barriers to continue to attend CR to completion are high. See the **How to Compare Data** section for more information.

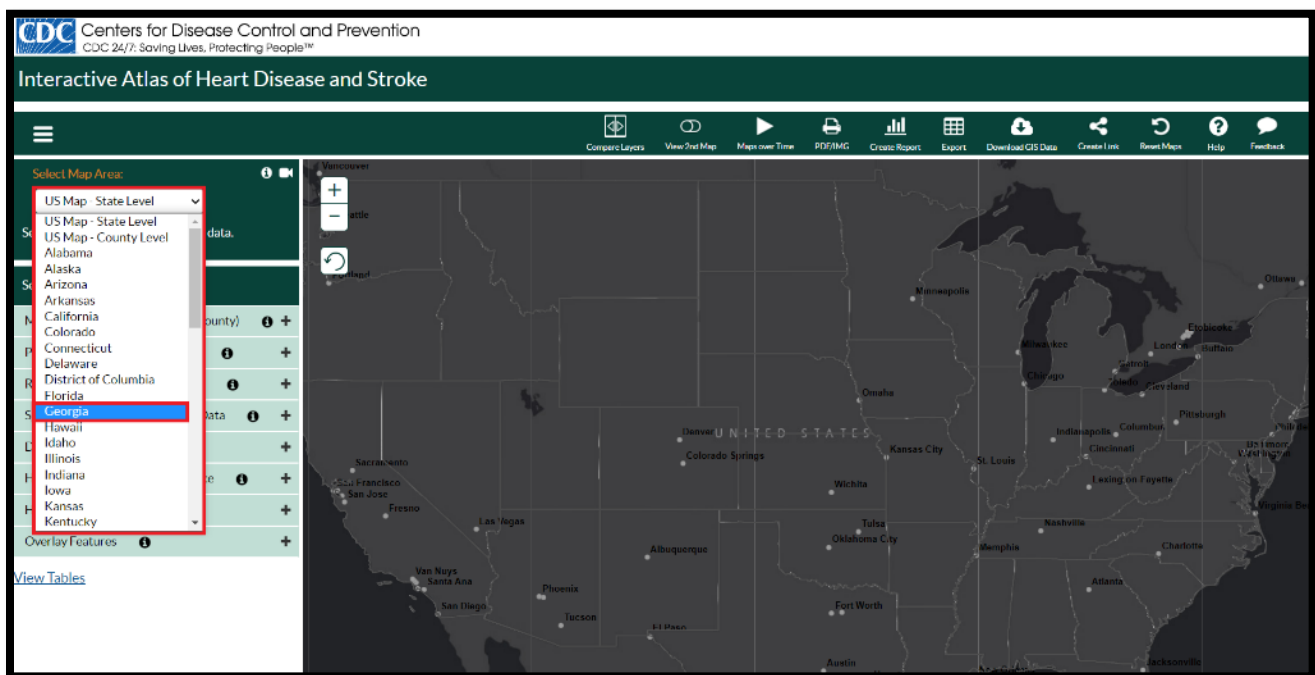
Areas with higher rates of participation and lower rates of completion may benefit from strategies designed to improve program completion.

Step 1

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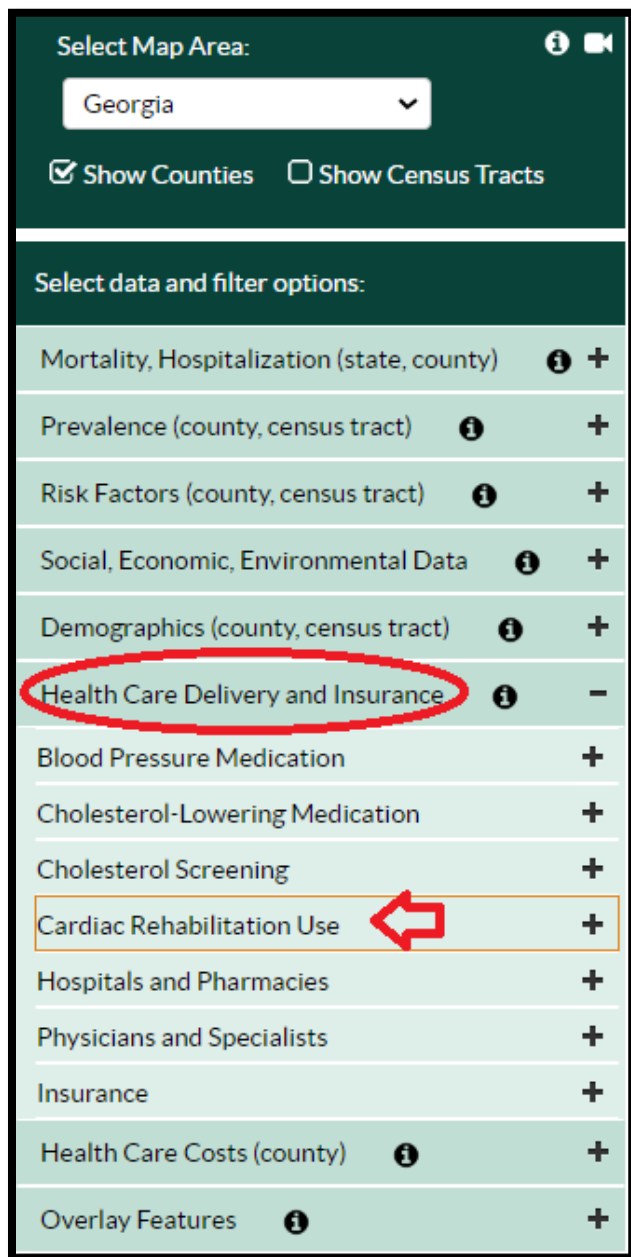
Step 2

If you select the **US Map - County Level** link, you can choose a state by clicking on the **Select Map Area** box in the top left corner.



Step 3

Click on the **Health Care Delivery and Insurance** tab on the left navigation bar, then select **Cardiac Rehabilitation Use**.



Step 4

The **Cardiac Rehabilitation Use** bar will open to show four subtopic options.

Select Map Area: Georgia

Show Counties Show Census Tracts

Select data and filter options:

| | | |
|--|---|---|
| Mortality, Hospitalization (state, county) | i | + |
| Prevalence (county, census tract) | i | + |
| Risk Factors (county, census tract) | i | + |
| Social, Economic, Environmental Data | i | + |
| Demographics (county, census tract) | i | + |
| Health Care Delivery and Insurance | i | - |
| Blood Pressure Medication | | + |
| Cholesterol-Lowering Medication | | + |
| Cholesterol Screening | | + |
| Cardiac Rehabilitation Use | | - |

Eligibility Rate

Participation Rate Among Eligible (%)

Completion Rate Among Initiators (%)

Mean Number of Sessions Used Among Initiators

Step 5

Click on **Participation Rate Among Eligible (%)**. The Atlas will create a map with rates of CR program participants among eligible beneficiaries for each county in the selected state.

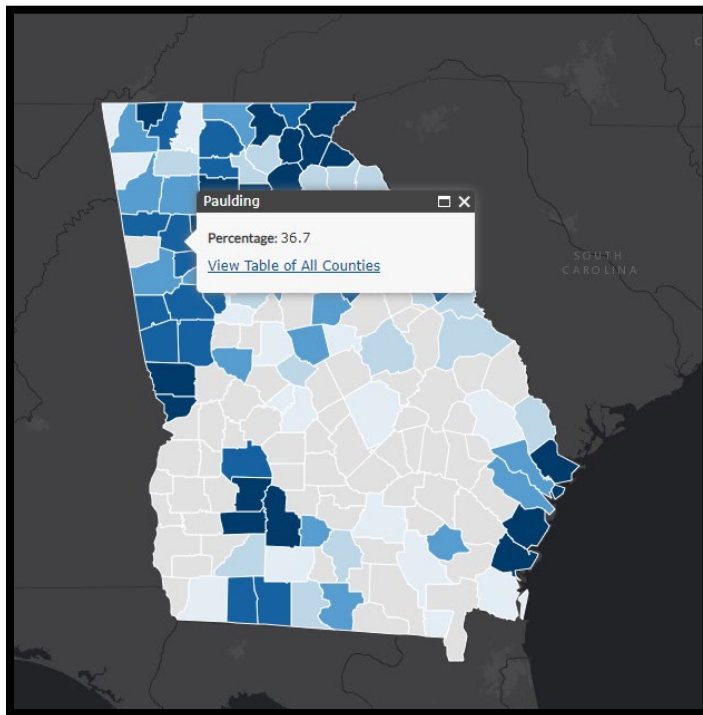
The screenshot shows the Atlas interface for selecting a map area and data. The 'Select Map Area' section is set to 'Georgia'. Below this, there are checkboxes for 'Show Counties' (checked) and 'Show Census Tracts' (unchecked). The 'Select data and filter options' section lists various data categories with expand/collapse icons. The 'Cardiac Rehabilitation Use' category is expanded, and the 'Participation Rate Among Eligible (%)' option is highlighted with a red arrow.

| Select Map Area: | |
|---|---|
| Georgia | ▼ |
| <input checked="" type="checkbox"/> Show Counties | <input type="checkbox"/> Show Census Tracts |

| Select data and filter options: | |
|---|-----|
| Mortality, Hospitalization (state, county) | ⓘ + |
| Prevalence (county, census tract) | ⓘ + |
| Risk Factors (county, census tract) | ⓘ + |
| Social, Economic, Environmental Data | ⓘ + |
| Demographics (county, census tract) | ⓘ + |
| Health Care Delivery and Insurance | ⓘ - |
| Blood Pressure Medication | + |
| Cholesterol-Lowering Medication | + |
| Cholesterol Screening | + |
| Cardiac Rehabilitation Use | - |
| Eligibility Rate | |
| Participation Rate Among Eligible (%) | ← |
| Completion Rate Among Initiators (%) | |
| Mean Number of Sessions Used Among Initiators | |

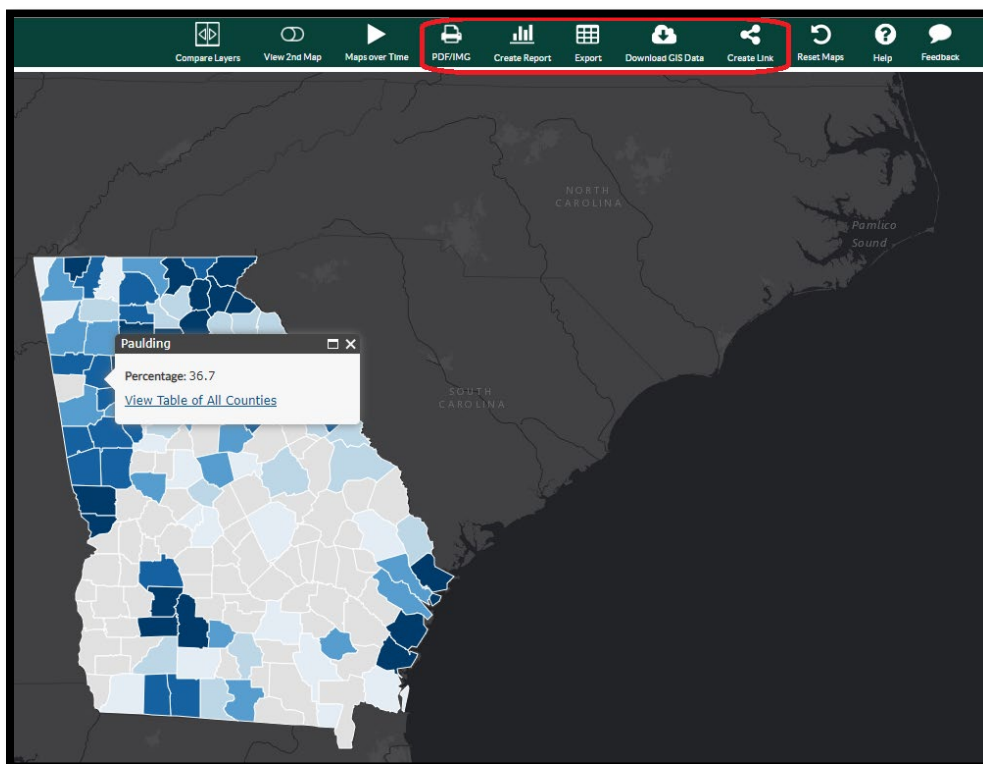
Step 6

Click on the county of interest to see the participation rate among eligible beneficiaries in that county.



Step 7

Use the tools at the top of the page to create a PDF or shareable link of your map. You can also export or download the data.



How to Find the Completion Rate for Beneficiaries Who Initiated CR Participation

You can use the Atlas to map the CR completion rate of Medicare beneficiaries by county. This information can help you identify counties, states, and regions with higher or lower rates of completion.

You can use the **Overlay Features** filter to add information about the locations of hospitals with CR services. See the **How to Add Hospitals With CR Services to a Map** section for more information.

You can also use the **Compare Layers** tool to compare two sets of data. For example, you can compare the completion rate to the eligibility rate. See the **How to Compare Data** section for more information.

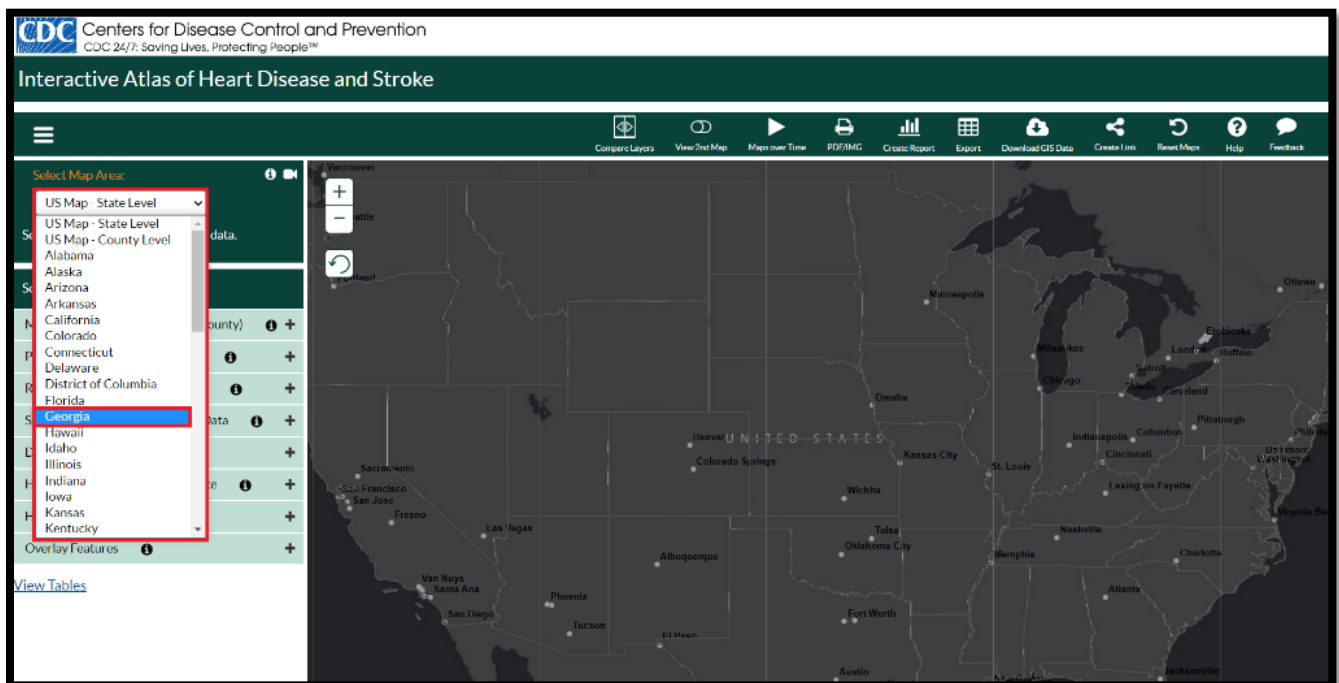
Areas with a higher rates of eligibility and lower rates of completion may benefit from strategies designed to improve program referral, enrollment, and attendance.

Step 1

Go to the [Interactive Atlas of Heart Disease and Stroke](#) website. You can launch the Atlas in one of three ways. You can click on the **US Map - County Level** link above the map, click on a state on the map, or select a state from the drop-down list below the map.

Step 2

If you select the **US Map - County Level** link, you can choose a state by clicking on the **Select Map Area** box in the top left corner.



Step 3

Click on the **Health Care Delivery and Insurance** tab on the left navigation bar, then select **Cardiac Rehabilitation Use**.

The screenshot shows a map interface with a dark green header and a light green list of data categories. The header includes a 'Select Map Area:' dropdown menu set to 'Georgia', and two checkboxes: 'Show Counties' (checked) and 'Show Census Tracts' (unchecked). The list of data categories is as follows:

| Category | Info Icon | Expand Icon |
|--|-----------|-------------|
| Mortality, Hospitalization (state, county) | ⓘ | + |
| Prevalence (county, census tract) | ⓘ | + |
| Risk Factors (county, census tract) | ⓘ | + |
| Social, Economic, Environmental Data | ⓘ | + |
| Demographics (county, census tract) | ⓘ | + |
| Health Care Delivery and Insurance | ⓘ | - |
| Blood Pressure Medication | | + |
| Cholesterol-Lowering Medication | | + |
| Cholesterol Screening | | + |
| Cardiac Rehabilitation Use | | + |
| Hospitals and Pharmacies | | + |
| Physicians and Specialists | | + |
| Insurance | | + |
| Health Care Costs (county) | ⓘ | + |
| Overlay Features | ⓘ | + |

Step 4

The **Cardiac Rehabilitation Use** bar will open to show four subtopic options.

The screenshot shows a web application interface with a dark green header. At the top, it says "Select Map Area:" with a dropdown menu set to "Georgia". Below this are two checkboxes: "Show Counties" (checked) and "Show Census Tracts" (unchecked). The main content area is titled "Select data and filter options:" and contains a list of data categories. The "Cardiac Rehabilitation Use" category is selected, and its subtopics are displayed in a dropdown menu.

| Category | Info Icon | Expand/Collapse Icon |
|--|-----------|----------------------|
| Mortality, Hospitalization (state, county) | ⓘ | + |
| Prevalence (county, census tract) | ⓘ | + |
| Risk Factors (county, census tract) | ⓘ | + |
| Social, Economic, Environmental Data | ⓘ | + |
| Demographics (county, census tract) | ⓘ | + |
| Health Care Delivery and Insurance | ⓘ | - |
| Blood Pressure Medication | | + |
| Cholesterol-Lowering Medication | | + |
| Cholesterol Screening | | + |
| Cardiac Rehabilitation Use | | - |

The subtopics for "Cardiac Rehabilitation Use" are:

- Eligibility Rate
- Participation Rate Among Eligible (%)
- Completion Rate Among Initiators (%)
- Mean Number of Sessions Used Among Initiators

Step 5

Click on **Completion Rate Among Initiators (%)**. The Atlas will create a map with rates of participants who initiated and completed a CR program.

The screenshot shows the 'Select data and filter options' menu in the Atlas interface. The menu is divided into two sections: 'Select Map Area' and 'Select data and filter options'.

Select Map Area:

- Georgia (selected)
- Show Counties
- Show Census Tracts

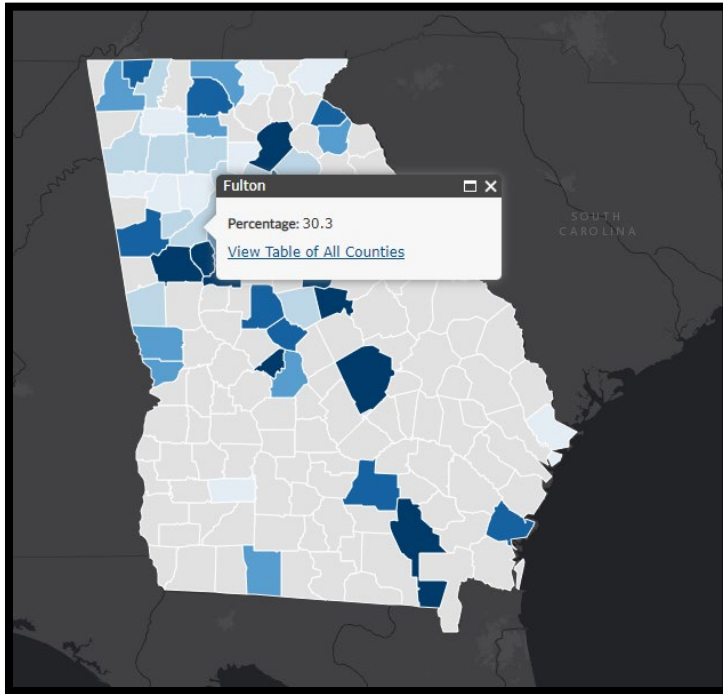
Select data and filter options:

| | |
|---|-----|
| Mortality, Hospitalization (state, county) | i + |
| Prevalence (county, census tract) | i + |
| Risk Factors (county, census tract) | i + |
| Social, Economic, Environmental Data | i + |
| Demographics (county, census tract) | i + |
| Health Care Delivery and Insurance | i - |
| Blood Pressure Medication | + |
| Cholesterol-Lowering Medication | + |
| Cholesterol Screening | + |
| Cardiac Rehabilitation Use | - |
| Eligibility Rate | |
| Participation Rate Among Eligible (%) | |
| Completion Rate Among Initiators (%) | |
| Mean Number of Sessions Used Among Initiators | |

A red circle highlights the 'Cardiac Rehabilitation Use' option. A red arrow points to the 'Completion Rate Among Initiators (%)' option.

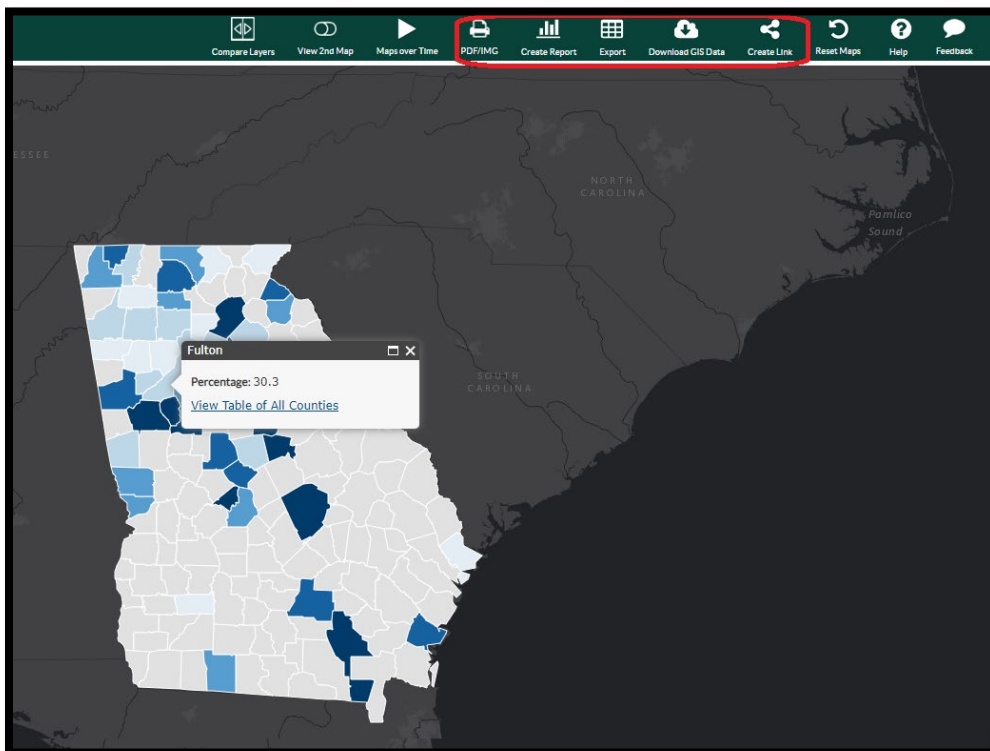
Step 6

Click on the county of interest to see the completion rate in that county.



Step 7

Use the tools at the top of the page to create a PDF or shareable link of your map. You can also export or download the data.



How to Find the Mean Number of Sessions Attended by Beneficiaries Who Initiated CR Participation

You can use the Atlas to map the mean number of sessions attended by Medicare beneficiaries who initiated CR participation by county. This information can help you identify counties, states, and regions with higher or lower numbers of mean sessions.

You can use the **Overlay Features** filter to add information about the locations of hospitals with CR services. See the **How to Add Hospitals With CR Services to a Map** section for more information.

You can also use the **Compare Layers** tool to compare two sets of data. For example, you can compare the mean number of sessions attended to the participation rate. See the **How to Compare Data** section for more information.

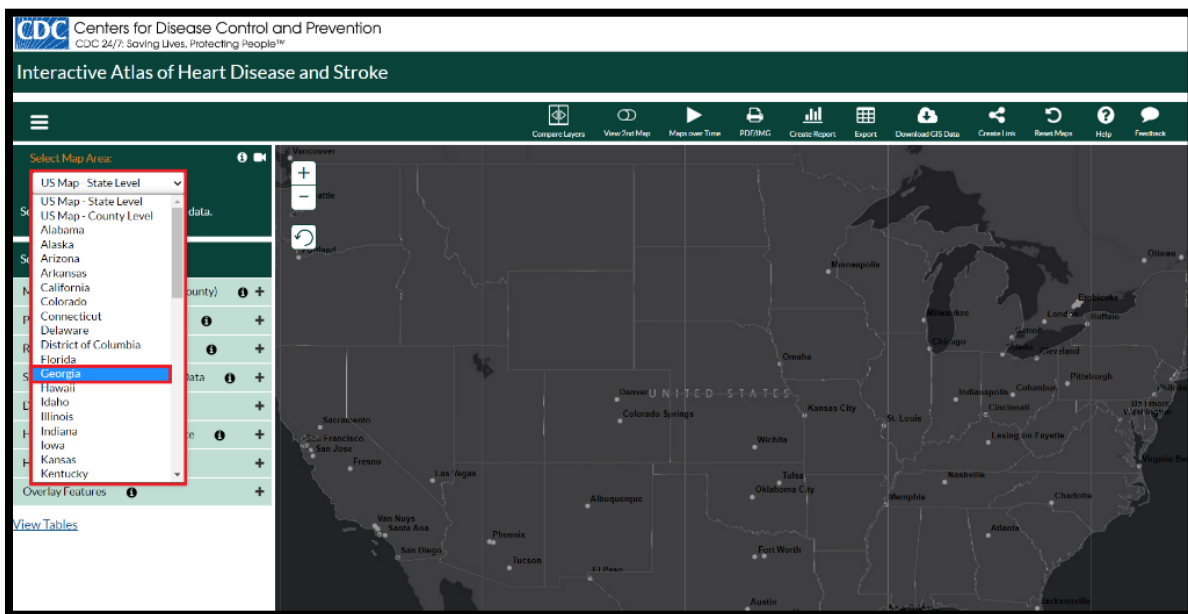
Areas with a low mean number of sessions attended and higher rates of participation may benefit from strategies designed to improve program attendance beyond the first session.

Step 1

Go to the [Interactive Atlas of Heart Disease and Stroke](#) website. You can launch the Atlas in one of three ways. You can click on the **US Map - County Level** link above the map, click on a state on the map, or select a state from the drop-down list below the map.

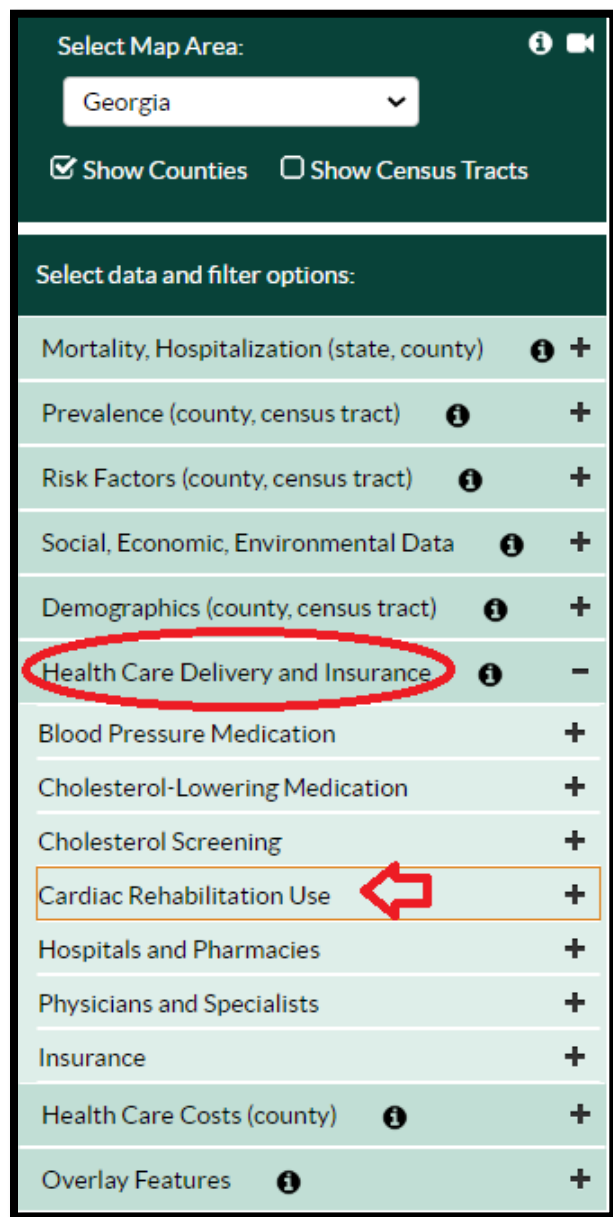
Step 2

If you select the **US Map - County Level** link, you can choose a state by clicking on the **Select Map Area** box in the top left corner.



Step 3

Click on the **Health Care Delivery and Insurance** tab on the left navigation bar, then select **Cardiac Rehabilitation Use**.



Step 4

The **Cardiac Rehabilitation Use** bar will open to show four subtopic options.

The screenshot shows a dark green sidebar with the following sections:

- Select Map Area:** A dropdown menu set to "Georgia".
- Checkboxes for "Show Counties" (checked) and "Show Census Tracts" (unchecked).
- Select data and filter options:** A list of data categories with expand/collapse icons (+/-) and information icons (i).

| Data Category | Info Icon | Expand/Collapse Icon |
|--|-----------|----------------------|
| Mortality, Hospitalization (state, county) | i | + |
| Prevalence (county, census tract) | i | + |
| Risk Factors (county, census tract) | i | + |
| Social, Economic, Environmental Data | i | + |
| Demographics (county, census tract) | i | + |
| Health Care Delivery and Insurance | i | - |
| Blood Pressure Medication | | + |
| Cholesterol-Lowering Medication | | + |
| Cholesterol Screening | | + |
| Cardiac Rehabilitation Use | | - |

The "Cardiac Rehabilitation Use" option is selected, and its subtopics are shown in a dropdown menu:

- Eligibility Rate
- Participation Rate Among Eligible (%)
- Completion Rate Among Initiators (%)
- Mean Number of Sessions Used Among Initiators

Step 5

Click on **Mean Number of Sessions Used Among Initiators**. The Atlas will create a map with the mean number of sessions attended by beneficiaries who initiated CR participation for each county in the selected state.



Select Map Area: Georgia

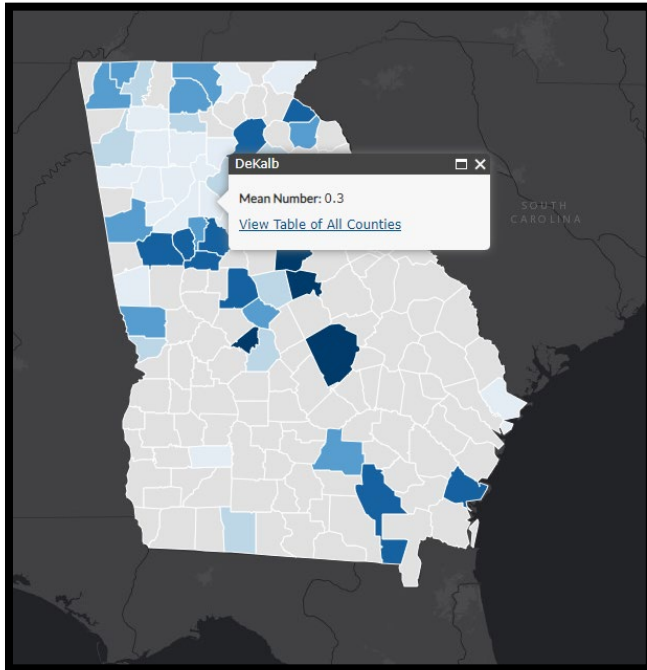
Show Counties Show Census Tracts

Select data and filter options:

| | | |
|---|---|---|
| Mortality, Hospitalization (state, county) | i | + |
| Prevalence (county, census tract) | i | + |
| Risk Factors (county, census tract) | i | + |
| Social, Economic, Environmental Data | i | + |
| Demographics (county, census tract) | i | + |
| Health Care Delivery and Insurance | i | - |
| Blood Pressure Medication | | + |
| Cholesterol-Lowering Medication | | + |
| Cholesterol Screening | | + |
| Cardiac Rehabilitation Use | | - |
| Eligibility Rate | | |
| Participation Rate Among Eligible (%) | | |
| Completion Rate Among Initiators (%) | | |
| Mean Number of Sessions Used Among Initiators | | |

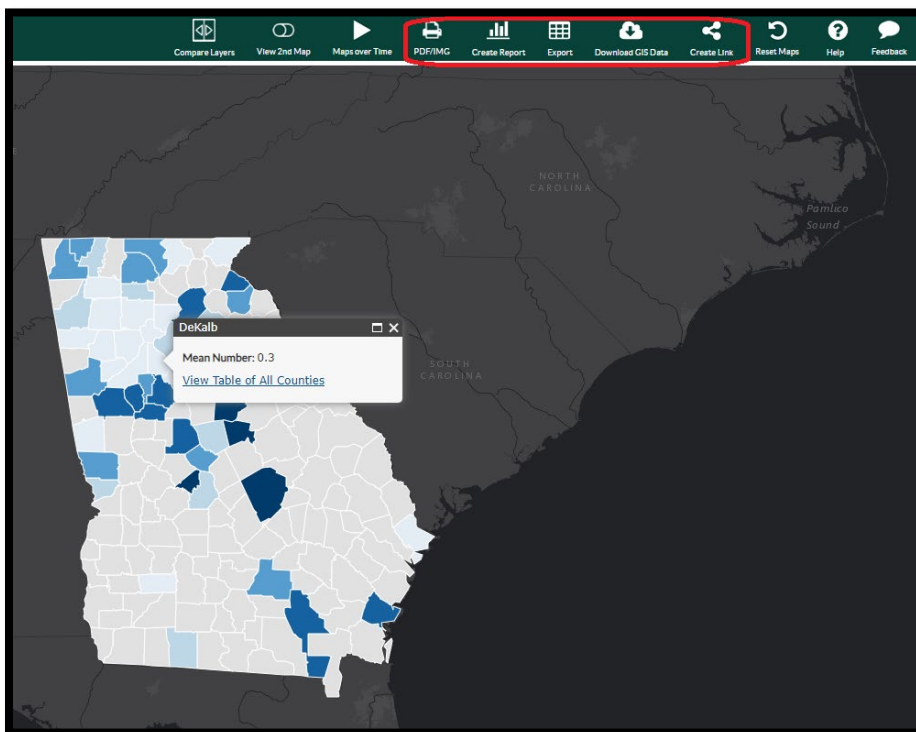
Step 6

Click on the county of interest to see the mean number of sessions attended in that county.



Step 7

Use the tools at the top of the page to create a PDF or shareable link of your map. You can also export or download the data.



How to Add Hospitals With CR Services to a Map

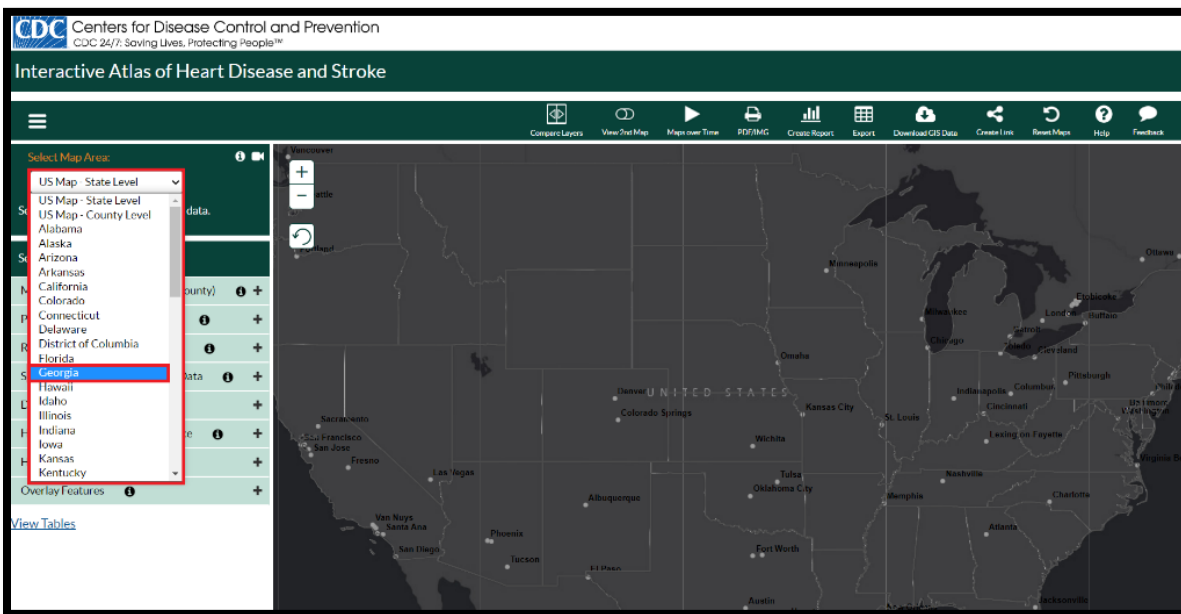
Once you've created a map with the CR program data you're interested in, you can use the Overlay Features filter to add related information, such as the location of hospitals with CR services.

Step 1

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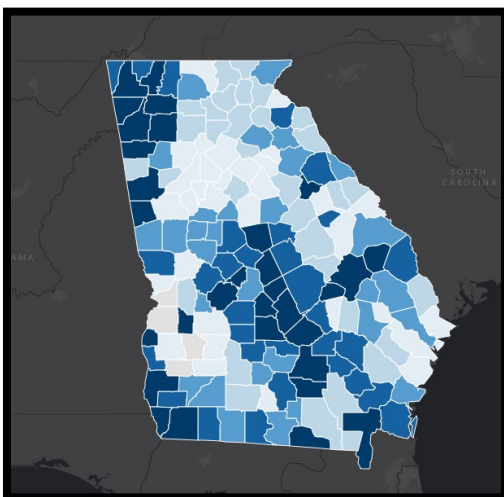
Step 2

If you select the **US Map - County Level** link, you can choose a state by clicking on the **Select Map Area** box in the top left corner.



Step 3

Follow the instructions in one of the sections above to create a state map with the CR program data you're interested in.



Step 4

Click on the **Overlay Features** tab on the left navigation bar, then select **Hospitals with Listed Services**.

The screenshot shows a map interface with a dark green header and a light green list of data and filter options. The header includes a dropdown menu for 'Select Map Area' set to 'Georgia', and two checkboxes: 'Show Counties' (checked) and 'Show Census Tracts' (unchecked). The list of options includes various data categories, with 'Overlay Features' circled in red and 'Hospitals with Listed Services' highlighted with a red box and arrow.

| Select Map Area: | |
|---|---|
| Georgia | ▼ |
| <input checked="" type="checkbox"/> Show Counties | <input type="checkbox"/> Show Census Tracts |

| Select data and filter options: | |
|--|-----|
| Mortality, Hospitalization (state, county) | i + |
| Prevalence (county, census tract) | i + |
| Risk Factors (county, census tract) | i + |
| Social, Economic, Environmental Data | i + |
| Demographics (county, census tract) | i + |
| Health Care Delivery and Insurance | i + |
| Health Care Costs (county) | i + |
| Overlay Features | i - |
| Health Centers | + |
| Hospitals with Listed Services | + |
| Stroke Centers by Certification | + |
| Roads and Cities | + |
| Other Boundaries | + |
| Highlight by County Characteristics | + |

[View Tables](#)

Step 5

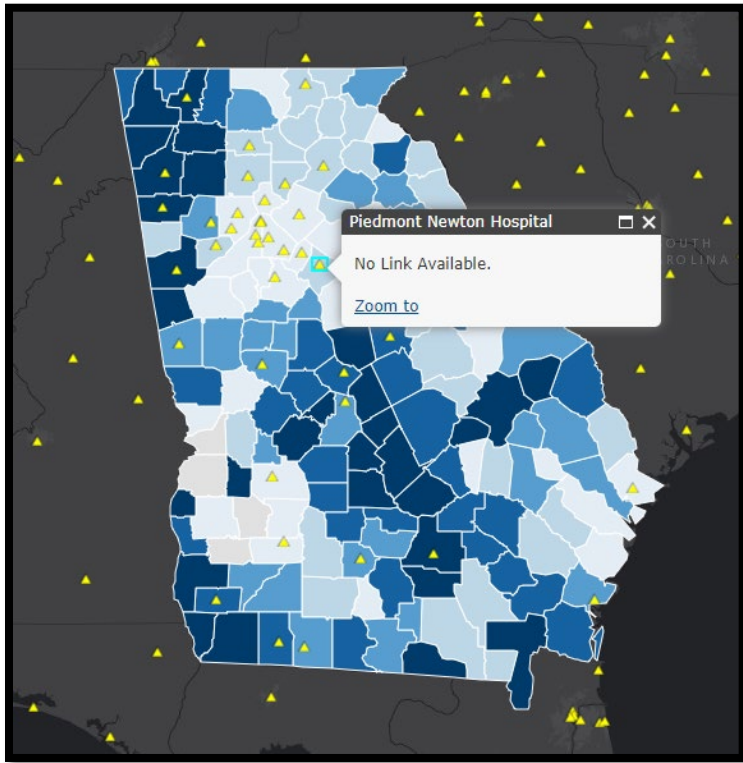
Once the drop-down menu appears, click the **Hospitals with Listed Services** tab and select **Cardiac Rehabilitation**.

The screenshot shows a dark green header with the text "Select Map Area:" and a dropdown menu currently set to "Georgia". Below this are two checkboxes: "Show Counties" (checked) and "Show Census Tracts" (unchecked). The main content area is titled "Select data and filter options:" and contains a list of categories. The "Hospitals with Listed Services" category is circled in red. A sub-menu is open for this category, listing various services for 2019. "Cardiac Rehabilitation, 2019" is highlighted with a grey background and a red arrow points to it from the right.

| Category | Info Icon | Expand/Collapse Icon |
|--|-----------|----------------------|
| Mortality, Hospitalization (state, county) | ⓘ | + |
| Prevalence (county, census tract) | ⓘ | + |
| Risk Factors (county, census tract) | ⓘ | + |
| Social, Economic, Environmental Data | ⓘ | + |
| Demographics (county, census tract) | ⓘ | + |
| Health Care Delivery and Insurance | ⓘ | + |
| Health Care Costs (county) | ⓘ | + |
| Overlay Features | ⓘ | - |
| Health Centers | | + |
| Hospitals with Listed Services | | - |
| Hospitals (Short Term General), 2019 | | |
| Emergency Departments, 2019 | | |
| Cardiac Catheterization, 2019 | | |
| Cardiac Intensive Care, 2019 | | |
| Cardiac Rehabilitation, 2019 | | |
| Cardiac Surgery, 2019 | | |
| Neurological Services, 2019 | | |
| Telehealth Stroke Care, 2019 | | |

Step 6

Click on the yellow triangles to see the hospital name.



How to Compare Data

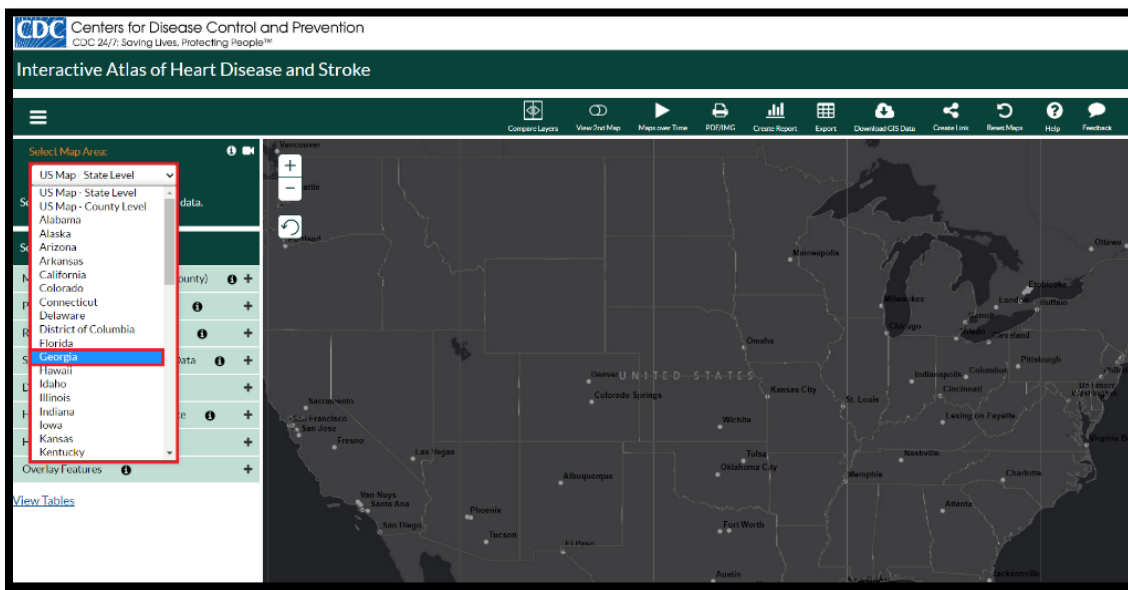
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Step 1

Go to the [Interactive Atlas of Heart Disease and Stroke](#) website. You can launch the Atlas in one of three ways. You can click on the **US Map - County Level** link above the map, click on a state on the map, or select a state from the drop-down list below the map.

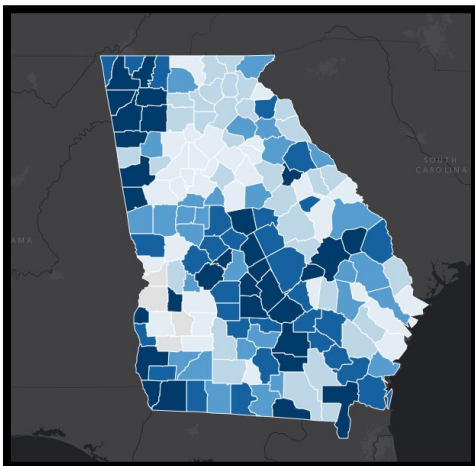
Step 2

If you select the **US Map - County Level** link, you can choose a state by clicking on the **Select Map Area** box in the top left corner.



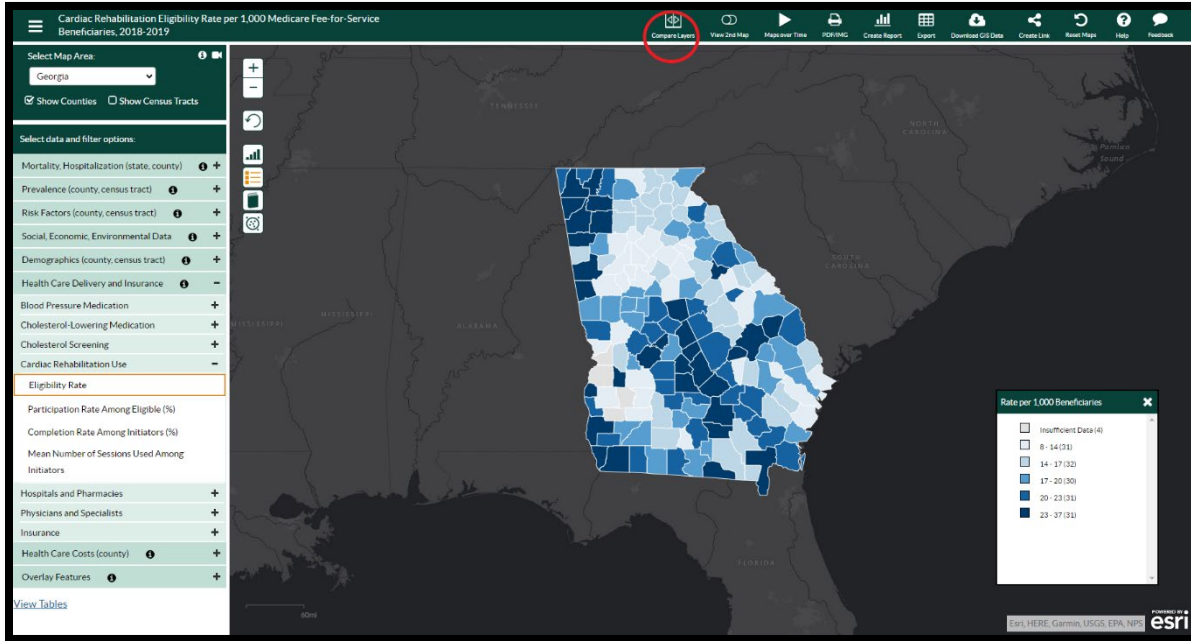
Step 3

Follow the instructions in one of the sections above to create a state map with the CR program data you're interested in.



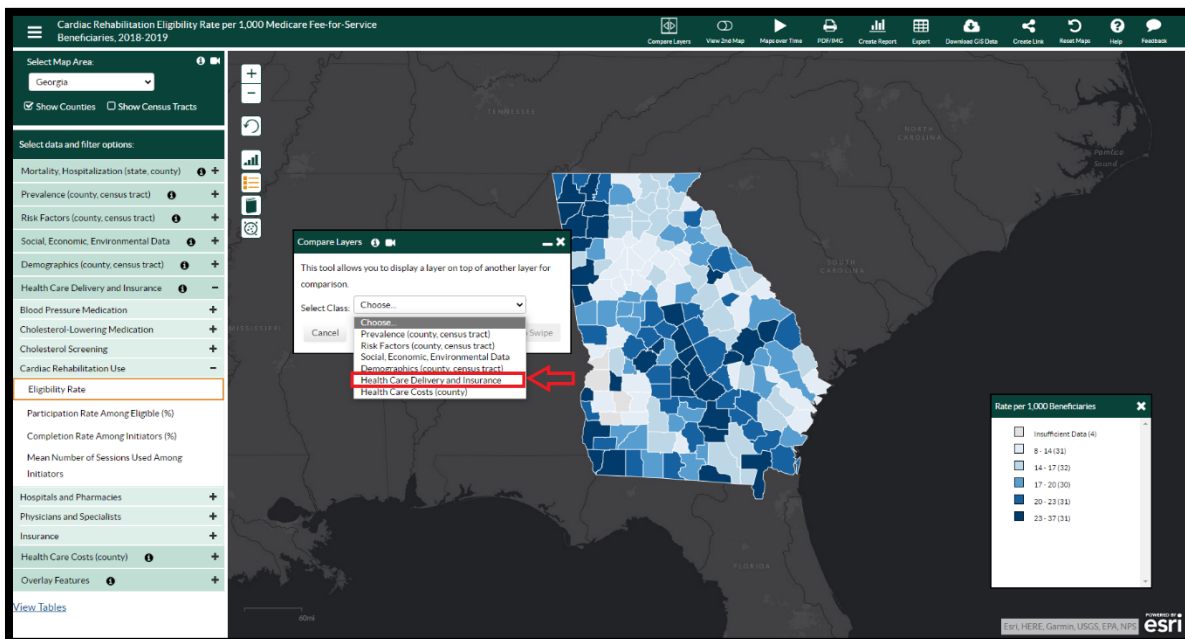
Step 4

Click on the white **Compare Layers** tool at the top of the page.



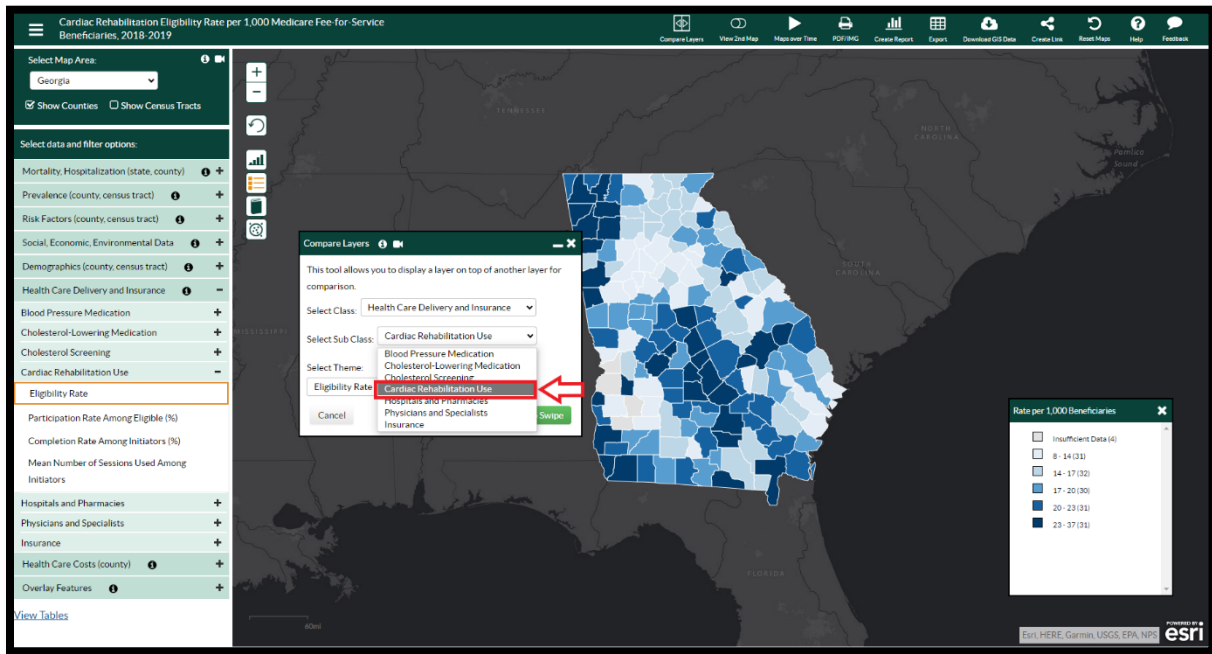
Step 5

Click on the **Select Class** box to display a drop down menu. Select the secondary data you want to compare to the data displayed on your map. For Medicare beneficiaries data, select the following class: **Health Care Delivery and Insurance**.



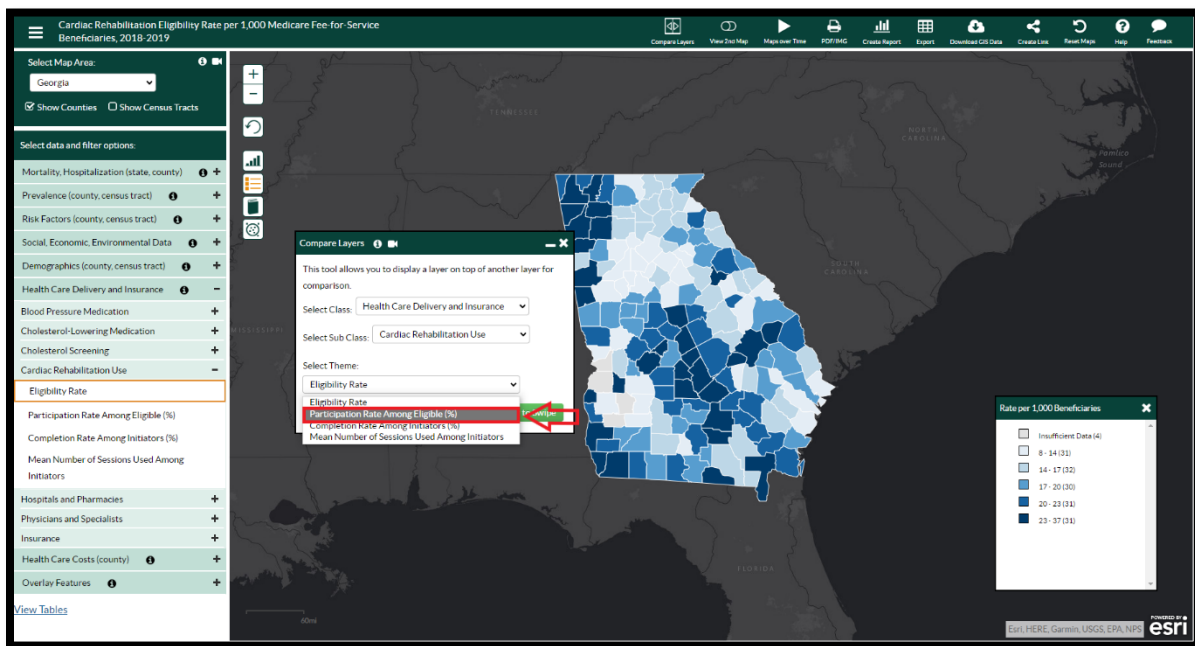
Step 6

Select the following sub class: **Cardiac Rehabilitation Use**.



Step 7

Select one of the following themes: **Eligibility Rate**, **Participation Rate Among Eligible (%)**, **Completion Rate Among Initiators (%)**, or **Mean Number of Sessions Used by Initiators**.



Step 8

Click on the **Apply to Swipe** button. A vertical line will appear on the page. This line can be moved back and forth across the map to show the two sets of data.

