



CMS Measures Inventory Tool (CMIT)

User Guide

Version 1.6.5
12/1/2017

Table of Contents

1. INTRODUCTION	1
1.1 CMIT OVERVIEW	1
1.2 USER GUIDE OVERVIEW	1
2. ACCESSING CMIT	1
2.1 ACCESS THE CMIT PUBLIC INSTANCE	1
2.2 ACCESSING THE CMIT CONTROLLED ACCESS INSTANCE	1
2.3 CMIT LOGIN (CONTROLLED ACCESS ONLY).....	2
2.3.1 <i>Setting Your Password (Controlled Access Only)</i>	2
2.3.2 <i>Two-Factor Authentication Setup (Controlled Access Only)</i>	2
2.3.3 <i>Logging In (Controlled Access Only)</i>	10
2.4 CHANGING YOUR PASSWORD (CONTROLLED ACCESS ONLY)	10
2.5 FORGETTING YOUR PASSWORD (CONTROLLED ACCESS ONLY).....	12
2.6 LOSING YOUR GOOGLE AUTHENTICATOR KEY (CONTROLLED ACCESS ONLY)	12
2.7 CMIT LOGOUT (CONTROLLED ACCESS ONLY).....	12
3. GETTING STARTED	13
3.1 LOCATING THE USER GUIDE	13
3.2 HYPERLINKS	15
3.3 CONTACT US.....	16
4. MEASURE INVENTORY	17
4.1 MEASURE INVENTORY VIEW TYPES.....	18
4.2 MEASURE INVENTORY FILTERS.....	19
4.3 VIEWING MEASURE PROPERTIES IN THE MEASURE INVENTORY	23
4.4 SHOWING OR HIDING COLUMNS IN MEASURE INVENTORY	26
4.5 CHANGING THE ORDER OF COLUMNS IN THE MEASURE INVENTORY	28
4.6 SORTING BY COLUMN IN THE MEASURE INVENTORY	28
4.7 SEARCHING THE MEASURE INVENTORY	29
4.8 SAVING AND OPENING A SEARCH OR VIEW (CONTROLLED ACCESS ONLY).....	30
4.9 EXPORTING THE MEASURE LISTING FROM THE MEASURE INVENTORY	31
5. MEASURE STATUS BY PROGRAM VIEW	34
5.1 SORTING THE MEASURE STATUS BY PROGRAM VIEW	35
5.2 EXPORTING THE MEASURE STATUS BY PROGRAM VIEW	36
6. ENVIRONMENTAL SCAN (CONTROLLED ACCESS ONLY)	38
6.1 WHAT IS AN ENVIRONMENTAL SCAN?	38
6.2 RETURNING RESULTS BEYOND KEYWORDS	38
6.3 HOW THE ENVIRONMENTAL SCAN CAN BE USED.....	38
6.4 HOW TO ACCESS THE ENVIRONMENTAL SCAN FOR EACH MEASURE	39
APPENDIX A: CMIT DATA DICTIONARY.....	1
APPENDIX B: ABBREVIATIONS	9
APPENDIX C: RECORD OF CHANGES	1

Figure Listing

FIGURE 1. CMIT ACTIVATION PAGE.....	2
FIGURE 2. CMIT AUTHENTICATOR KEY VERIFICATION BLANK EXAMPLE PAGE	3
FIGURE 3. GOOGLE AUTHENTICATOR APP (IPHONE)	4
FIGURE 4. GOOGLE AUTHENTICATOR INITIAL SCREEN (IPHONE).....	5
FIGURE 5. GOOGLE AUTHENTICATOR INITIAL SCREEN (ANDROID).....	5
FIGURE 6. GOOGLE AUTHENTICATOR SETUP MENU (IPHONE)	6
FIGURE 7. GOOGLE AUTHENTICATOR SETUP MENU (ANDROID)	6
FIGURE 8. GOOGLE AUTHENTICATOR MANUAL ENTRY - COMPLETED (IPHONE).....	7
FIGURE 9. GOOGLE AUTHENTICATOR MANUAL ENTRY - COMPLETED (ANDROID).....	8
FIGURE 10. GOOGLE AUTHENTICATOR MAIN SCREEN SHOWING TOKEN CODE (IPHONE).....	9
FIGURE 11. GOOGLE AUTHENTICATOR CONFIRMATION SCREEN SHOWING TOKEN CODE (ANDROID).....	9
FIGURE 12. CMIT AUTHENTICATOR KEY VERIFICATION - COMPLETED	10
FIGURE 13. MANAGE MY ACCOUNT OPTION.....	11
FIGURE 14. UPDATE PASSWORD OPTION	11
FIGURE 15. PASSWORD RECOVERY PAGE	12
FIGURE 16. LOGOUT OPTION.....	13
FIGURE 17. USER GUIDE LINK.....	14
FIGURE 18. CMIT USER GUIDE.....	14
FIGURE 19. DISPLAY OPTIONS FOR CMIT USER GUIDE.....	15
FIGURE 20. POINTING FINGER HYPERLINK INDICATOR.....	15
FIGURE 21. CONTACT US LINK.....	16
FIGURE 22. SUPPORT E-MAIL LINK ON THE CONTACT US PAGE.....	16
FIGURE 23. CMIT DEFAULT MEASURE INVENTORY PAGE.....	17
FIGURE 24. MEASURE INVENTORY TAB	18
FIGURE 25. THE MEASURE RESULTS VIEW TYPES	18
FIGURE 26. MEASURE INVENTORY PAGE USING THE MEASURE PROGRAM RESULTS VIEW.....	19
FIGURE 27. POP-UP DIALOGUE BOX EXPLANATION OF FILTER FEATURE	20
FIGURE 28. CURRENT STATUS FILTER CATEGORIES.....	20
FIGURE 29. FILTER CATEGORIES	21
FIGURE 30. FILTER SELECTION	22

FIGURE 31. FILTER INDICATION.....22

FIGURE 32. REMOVING A FILTER SELECTION.....23

FIGURE 33. TRUNCATED VIEW OF A MEASURE PROPERTIES PAGE24

FIGURE 34. TRUNCATED VIEW OF A DEVELOPER/STEWARD TAB24

FIGURE 35. TRUNCATED VIEW OF A MEASURE CHARACTERISTICS TAB.....25

FIGURE 36. TRUNCATED VIEW OF A MEASURE GROUPS TAB.....25

FIGURE 37. TRUNCATED VIEW OF A MEASURE PROGRAMS TAB.....26

FIGURE 38. TRUNCATED VIEW OF AN ENVIRONMENTAL SCAN TAB.....26

FIGURE 39. TRUNCATED VIEW OF SHOW/HIDE COLUMNS BUTTON27

FIGURE 40. TRUNCATED VIEW OF SHOW/HIDE COLUMNS DIALOGUE BOX27

FIGURE 41. COLUMNS SORTED BY MEASURE TITLE28

FIGURE 42. TRUNCATED VIEW OF COLUMNS, SORTED BY MEASURE TITLE.....28

FIGURE 43. COLUMNS SORTED BY MEASURE TITLE, IN REVERSE ORDER29

FIGURE 44. COLUMNS SORTED BY MEASURE TITLE AND BY NQF ENDORSEMENT
STATUS.....29

FIGURE 45. KEYWORD SEARCH30

FIGURE 46. SAVE SEARCH BUTTON.....30

FIGURE 47. SAVE SEARCH DIALOG31

FIGURE 48. OPEN SEARCH BUTTON31

FIGURE 49. EXPORT OPTION IN THE MEASURE INVENTORY VIEW.....32

FIGURE 50. OPEN, SAVE, OR CANCEL EXPORTED DATA.....33

FIGURE 51. ENABLE EDITING IN EXCEL.....33

FIGURE 52. SAVING THE EXPORTED MEASURE INVENTORY.....34

FIGURE 53. MEASURE STATUS BY PROGRAM TAB34

FIGURE 54. MEASURE STATUS BY PROGRAM PAGE35

FIGURE 55. MEASURE STATUS BY PROGRAM SORTING SELECTION36

FIGURE 56. EXPORT OPTION FOR THE MEASURE STATUS BY PROGRAM VIEW.....36

FIGURE 57. OPEN, SAVE, OR CANCEL SELECTIONS FOR MEASURE STATUS BY
PROGRAM VIEW37

FIGURE 58. OPENING AN EXCEL SPREADSHEET OF THE MEASURE STATUS BY
PROGRAM VIEW37

FIGURE 59. SAVING THE EXPORTED MEASURE STATUS BY PROGRAM VIEW38

FIGURE 60. ENVIRONMENTAL SCAN TAB OF MEASURE DETAILS39

FIGURE 61. ASSOCIATED MEASURES DIALOG40

FIGURE 62. RELEVANT MEASURE CONCEPTS DIALOG40

FIGURE 63. USER RELEVANCE RATINGS DIALOG41

1. Introduction

1.1 CMIT Overview

The Centers for Medicare and Medicaid Services (CMS) Measures Inventory Tool (CMIT) is the repository of record for information about the measures CMS uses to promote healthcare quality and quality improvement. CMS and its partners use CMIT to inform stakeholders, manage its measures portfolio, and guide measure development.

There are two instances of CMIT: a public instance (“CMIT Public”) and a controlled access instance (“CMIT Controlled Access”). The public instance does not require authentication but lacks some features present in the controlled access instance. Throughout this guide, features available only in the controlled access instance are indicated by the phrase “Controlled Access Only.”

CMIT works with most modern browsers. However, the best experience occurs when using the most current versions of:

- Microsoft Internet Explorer
- Mozilla Firefox
- Apple Safari
- Google Chrome

When using Microsoft Internet Explorer, it is best to turn off compatibility mode. In any browser, disable pop-up blockers; some site content appears in pop-up windows. To optimize the appearance of CMIT, set the screen resolution to a minimum of 800 x 600.

1.2 User Guide Overview

The CMIT User Guide provides information to explain and help navigate and use the CMIT site effectively. This guide is the companion guide for CMIT Software Version 1.6.5 and Data Version 2017-10-15. It uses screen shots and narrative to describe how to use CMIT. When the user is required to complete an action, the word appears in bold text. For example: click on **Save**, enter your **password**. Hyperlinked items appear in blue, underlined text.

2. Accessing CMIT

2.1 Access the CMIT Public Instance

The public instance of CMIT is available at <https://cmit.cms.gov>. This instance does not require authentication.

2.2 Accessing the CMIT Controlled Access Instance

To access the controlled access instance of CMIT, potential users must request and be

granted access by CMS. To request access, visit <https://cmitmms.cms.gov/CMIT/ViewAccountRequest>. Requests for access generally will be processed within 2–3 business days. If your request is approved, you will receive an email from CMIT-no-reply@battelle.org that contains the text, “An account has been created for you in CMS CMIT. Please click the following link to activate your account...” and will include a hyperlink to the CMIT login page.

The controlled access instance of CMIT is available at <https://cmitmms.cms.gov>.

2.3 CMIT Login (Controlled Access Only)

2.3.1. Setting Your Password (Controlled Access Only)

To set your password, navigate to the login page from the hyperlink provided in the “CMIT: Activate your account” email. The CMIT Login page will appear as shown in Figure 1.

Figure 1. CMIT Activation page

Enter a password of your choice into the **New Password** and **Confirm New Password** boxes and click **Reset Password**. Your password must meet the criteria listed on the page.

2.3.2. Two-Factor Authentication Setup (Controlled Access Only)

CMIT requires two-factor authentication to provide the needed level of security as designated by CMS. An authenticator is a way to prove to a computer system that you really are who you are (called authentication). The two required factors are:

- Your password, and
- A token code (see Figure 2) generated by Google Authenticator (see Figure 10 or Figure 11)

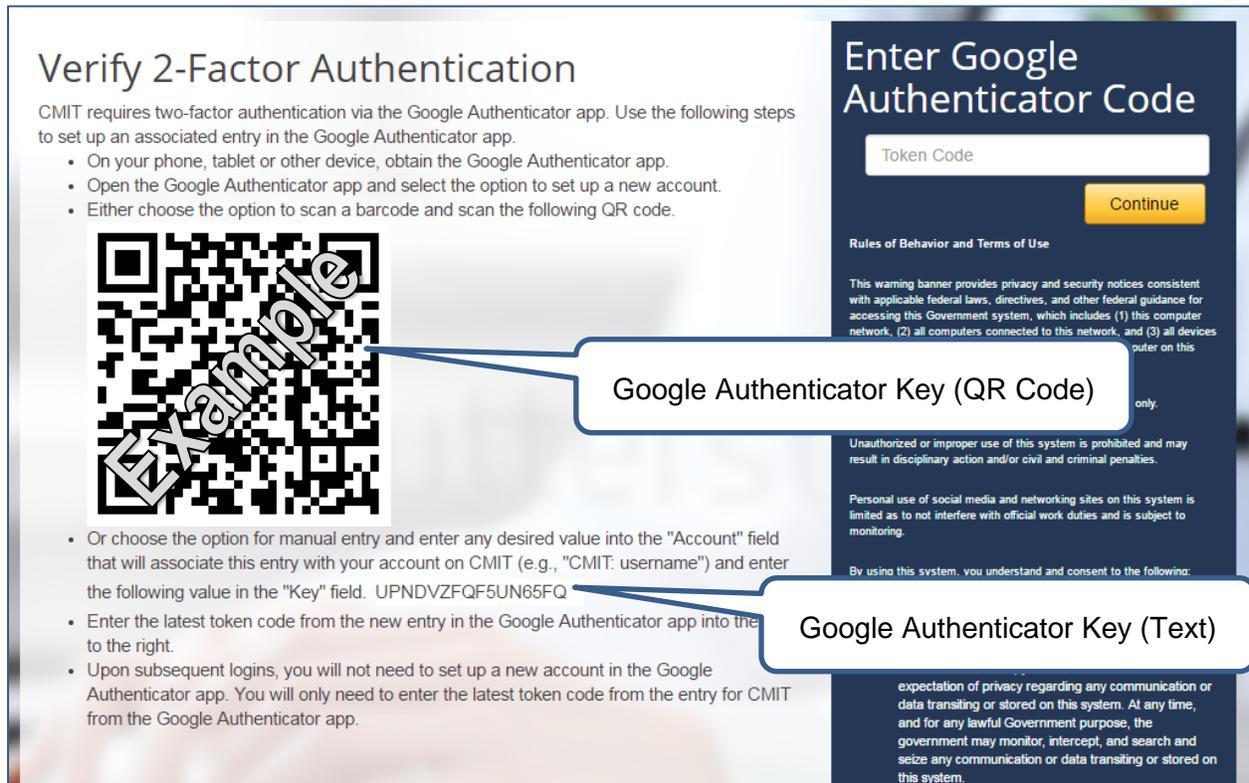


Figure 2. CMIT Authenticator Key Verification Blank Example Page

You must install Google Authenticator on a supported CMS-owned or personal mobile device to access CMIT. Google Authenticator is available for the following mobile devices:

- iOS (iPhone, iPad, iPod),
- Android, and
- Blackberry

If you do not have or are unwilling to use one of these devices, you will not be able to access the controlled access instance of CMIT, but you can search the inventory using the public site available at <https://cmit.cms.gov>.

Google Authenticator is available for free from the App Store (iOS), Google Play (Android), or m.google.com/authenticator (Blackberry). A single instance of Google Authenticator will support multiple accounts from different applications and with different shared keys.

After installing Google Authenticator on your mobile device, start the app as shown in Figure 3.



Figure 3. Google Authenticator App (iPhone)

Tap **Begin Setup** on Google Authenticator's initial screen as shown in Figure 4 and Figure 5.

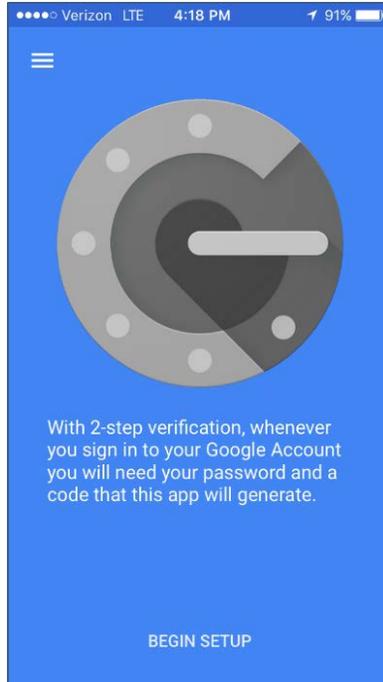


Figure 4. Google Authenticator Initial Screen (iPhone)

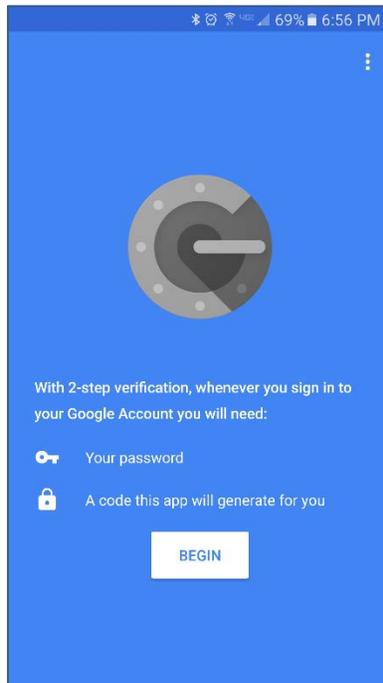


Figure 5. Google Authenticator Initial Screen (Android)

Following the instructions shown on screen in CMIT (Figure 2), tap **Scan barcode** or **Manual entry** as desired on the menu as shown in Figure 6 and Figure 7. Scanning the barcode is easier and more reliable.

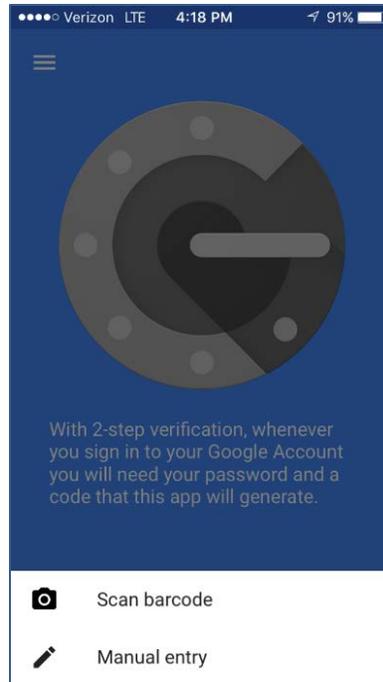


Figure 6. Google Authenticator Setup Menu (iPhone)

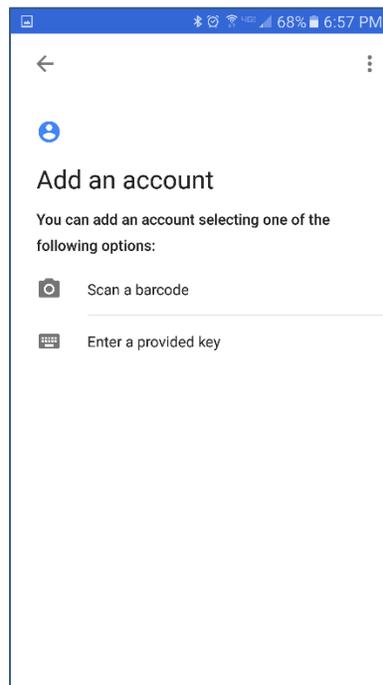


Figure 7. Google Authenticator Setup Menu (Android)

If you scan the barcode, the account will be named appropriately. However, you can edit the name as you desire.

If you chose manual entry, name the account to indicate the system to which this code is linked, for example, “CMIT Code”, and enter your **Key** shown as shown in Figure 8 and Figure 9. Your **Key** is displayed on the CMIT Authenticator Key Verification screen as shown in Figure 2. The **Key** is case-sensitive. Take care during entry because an incorrect **Key** will cause Google Authenticator to generate incorrect **Token Code** values and you will not be able to log in. You may also choose to record this value in a safe place in case you lose access to your phone.

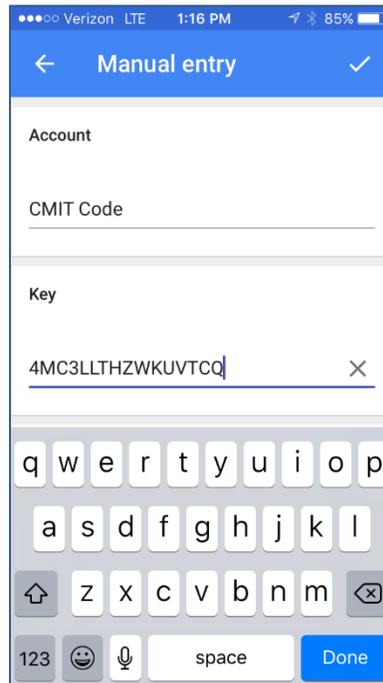


Figure 8. Google Authenticator Manual Entry - Completed (iPhone)

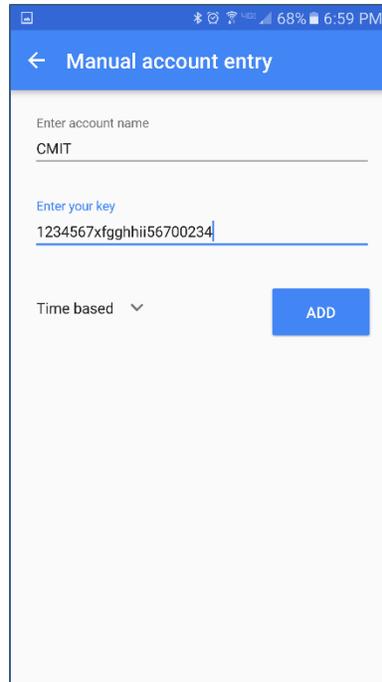


Figure 9. Google Authenticator Manual Entry - Completed (Android)

Click the checkmark in the upper right-hand corner (Figure 8), or the Add button in the bottom right of the form (Figure 9), to save the entry. Once this CMIT-specific code is entered into the Google Authenticator app, it does not need to be entered again. Every time you log into CMIT, you will go into the Google Authenticator app to obtain a new token code.

Google Authenticator will return to the main screen shown in Figure 10, or a confirmation screen as shown in Figure 11, where it will show the account that you have added. Google Authenticator allows you to set up multiple accounts for different websites or applications. You can also set up the same account on multiple devices if you use the same value for **Key**.

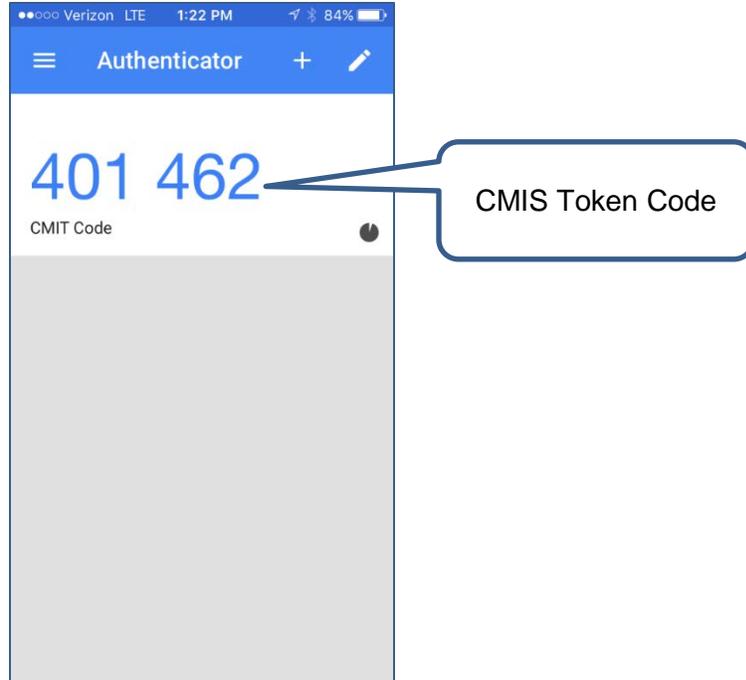


Figure 10. Google Authenticator Main Screen Showing Token Code (iPhone)

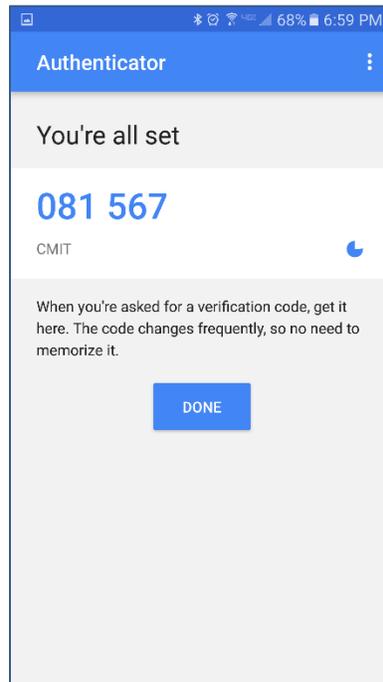
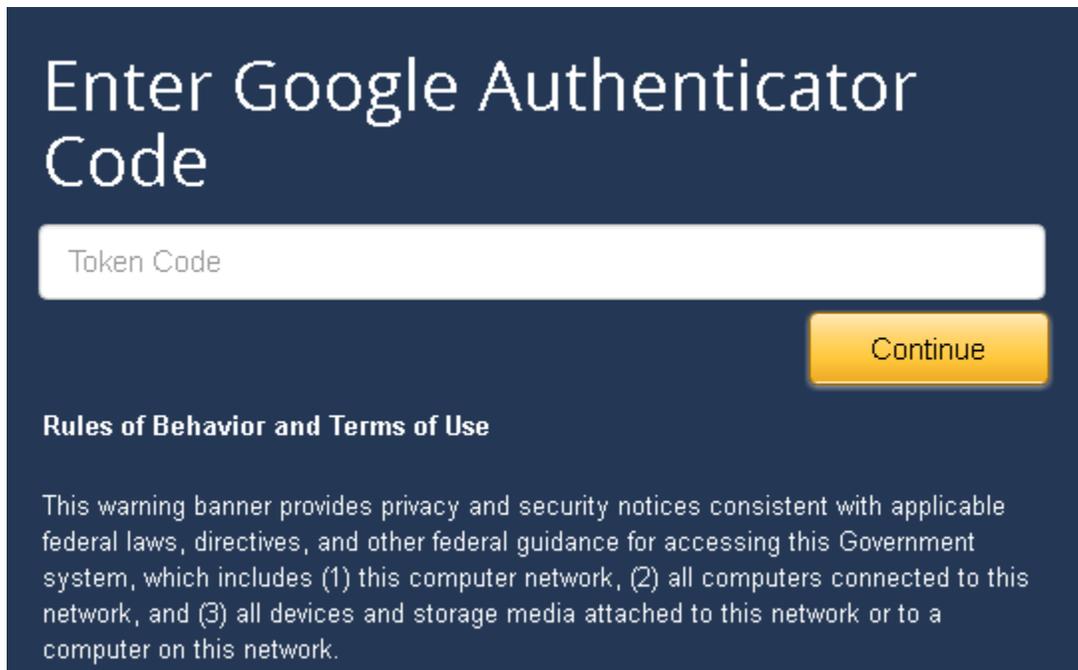


Figure 11. Google Authenticator Confirmation Screen Showing Token Code (Android)

As shown in Figure 12, enter the **Token Code** displayed in Google Authenticator for your CMIT account and click **Continue**. Google Authenticator will generate a new

Token Code every 30 seconds. The small timer to the right of the code indicates how much time remains before the code changes.



Enter Google Authenticator Code

Token Code

Continue

Rules of Behavior and Terms of Use

This warning banner provides privacy and security notices consistent with applicable federal laws, directives, and other federal guidance for accessing this Government system, which includes (1) this computer network, (2) all computers connected to this network, and (3) all devices and storage media attached to this network or to a computer on this network.

Figure 12. CMIT Authenticator Key Verification - Completed

2.3.3. Logging In (Controlled Access Only)

To login into CMIT, conduct the following steps:

- Open your browser and navigate to <https://cmitmms.cms.gov>
- Enter your **Username** (note that the system will auto-populate your username as you type, following your initial login) and **Password**
- Click **Sign In**
- Enter the current **Token Code** from your CMIT account in Google Authenticator
- Click **Continue**

Note that during the current login session, the site will remember and return you to the last view you selected when you exit and re-enter the site. Your login session terminates when you explicitly log out or after 15 minutes of inactivity. Otherwise, the site opens to the Measure Inventory page (See Measure Inventory).

2.4 Changing Your Password (Controlled Access Only)

To change or reset your password, click the downward-facing arrow to the right of your name, the option to **Manage My Account** will appear, as shown in Figure 13.

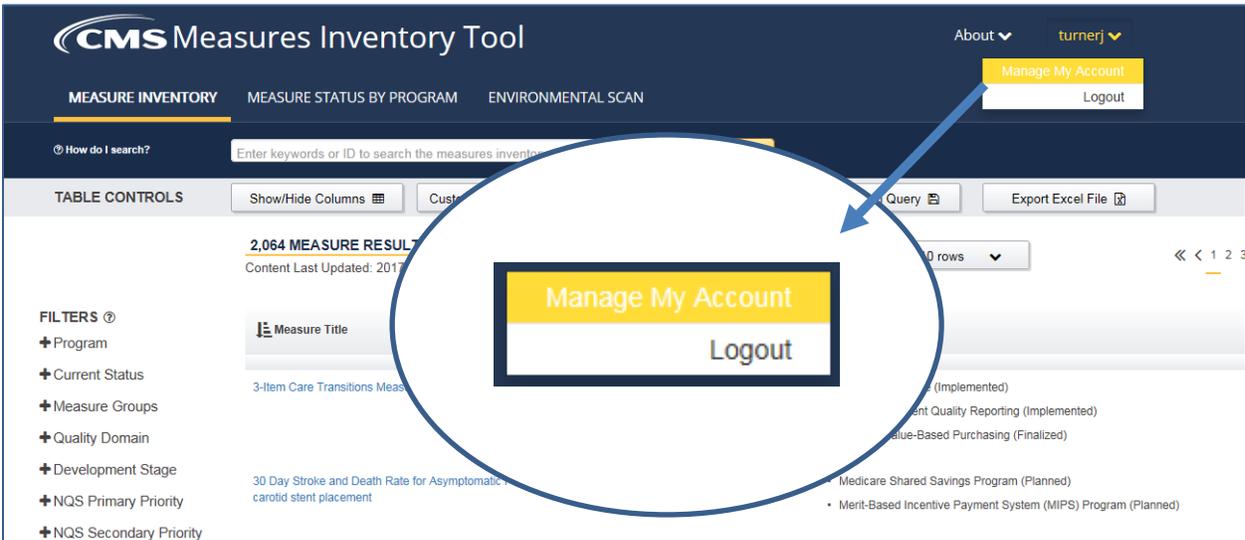


Figure 13. Manage My Account Option

Click on **Manage My Account** to open the page shown in Figure 14.

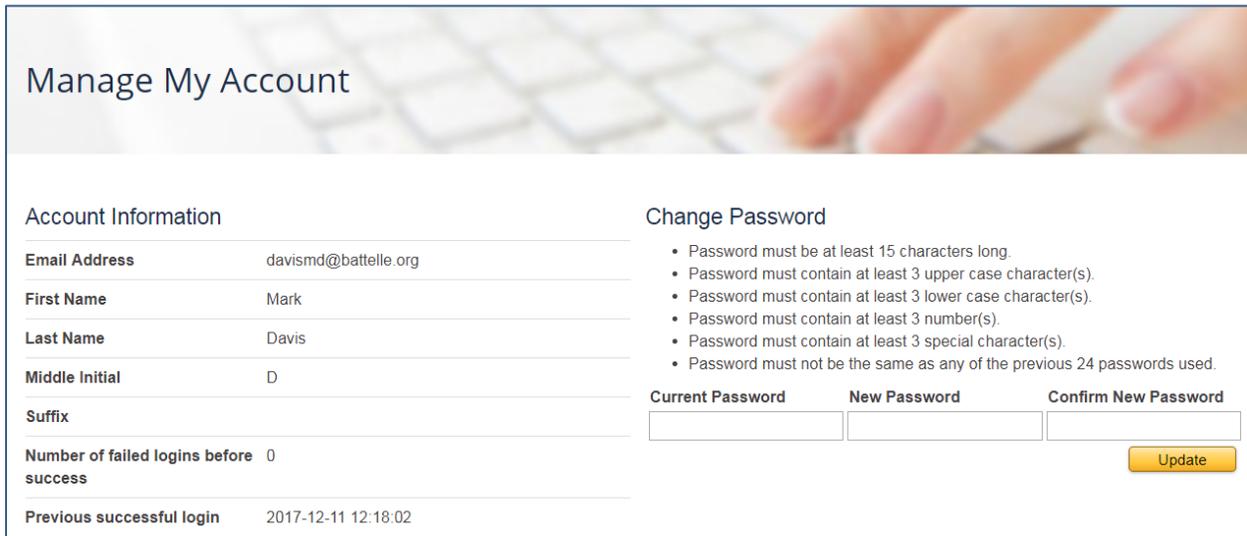


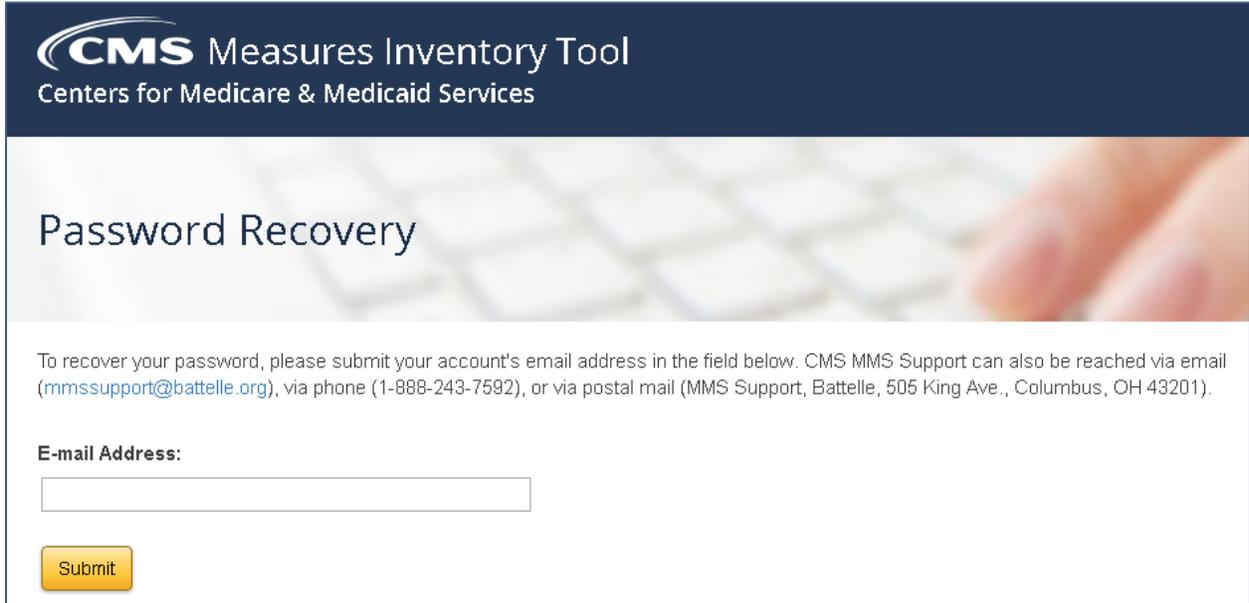
Figure 14. Update Password Option

Execute the following steps to change your password:

- Enter your **Current Password** in the appropriate field
- Enter your new password in the **New Password** field
- Enter the same new password into the **Confirm New Password** field
- Click the **Update** button

2.5 Forgetting Your Password (Controlled Access Only)

If you forget your password, click **Forgot Password?** on the login page. The password recovery page, shown in Figure 15, will open. Type your email address in the **Email** box and click **Submit**. You will receive a new, system-generated activation email with a link to reset your password.



CMS Measures Inventory Tool
Centers for Medicare & Medicaid Services

Password Recovery

To recover your password, please submit your account's email address in the field below. CMS MMS Support can also be reached via email (mmssupport@battelle.org), via phone (1-888-243-7592), or via postal mail (MMS Support, Battelle, 505 King Ave., Columbus, OH 43201).

E-mail Address:

Submit

Figure 15. Password Recovery Page

2.6 Losing Your Google Authenticator Key (Controlled Access Only)

If you lose your Google Authenticator Key due to a lost or broken mobile device, or due to getting a new mobile device, you must request that your key be reset through the support page. The next time you log onto CMIT after the key is reset, the system will display your new authenticator key so that you can set up a new account in Google Authenticator (see 2.3.2).

2.7 CMIT Logout (Controlled Access Only)

To logout of CMIT, as shown in Figure 16:

- Click the pull-down menu next to your username, **Logout** will appear
- Click **Logout**

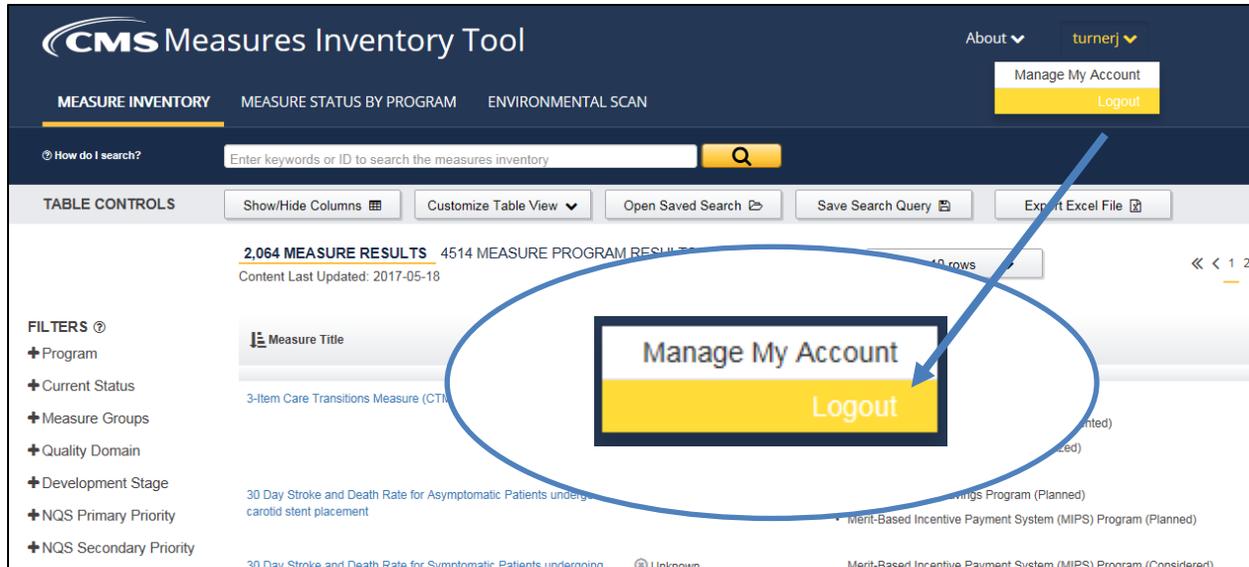


Figure 16. Logout Option

Once you click **Logout**, the system takes you to the CMIT login page. Your login session will also terminate after 15 minutes of inactivity, whether you have the site open in your browser or have closed the site without explicitly logging out.

3. Getting Started

3.1 Locating the User Guide

To access, save, or print a copy of the user guide from any page, follow these steps:

- Click the **About** drop-down menu at the top right corner of the page; the drop-down menu includes **About this Site**, **Contact Us**, **User Guide** and **Privacy Policy**
- Click **User Guide** as shown in Figure 17

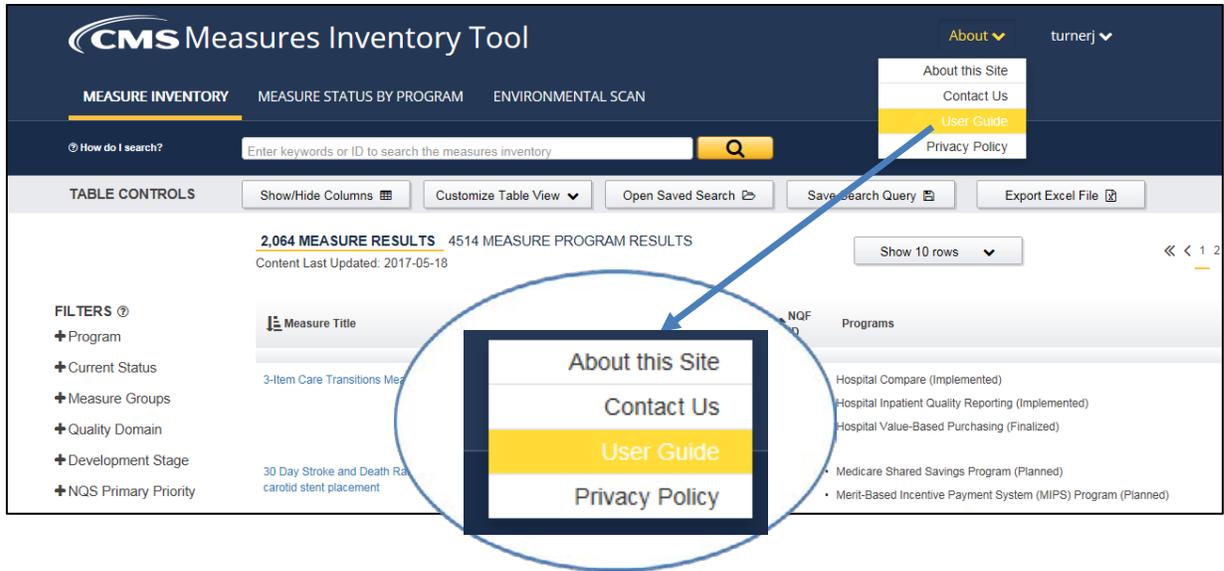


Figure 17. User Guide Link

A new browser tab will open, displaying the **User Guide**, as shown in Figure 18.

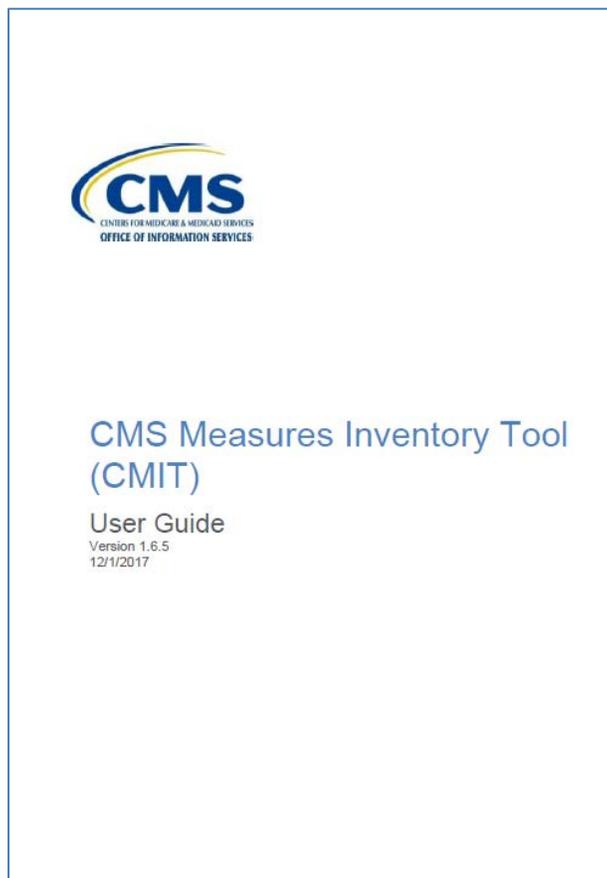


Figure 18. CMIT User Guide

- Hover the cursor near the bottom of the page and the options display shown in Figure 19 will appear. Options include saving, printing, paging up or down, and enlarging or shrinking the document.

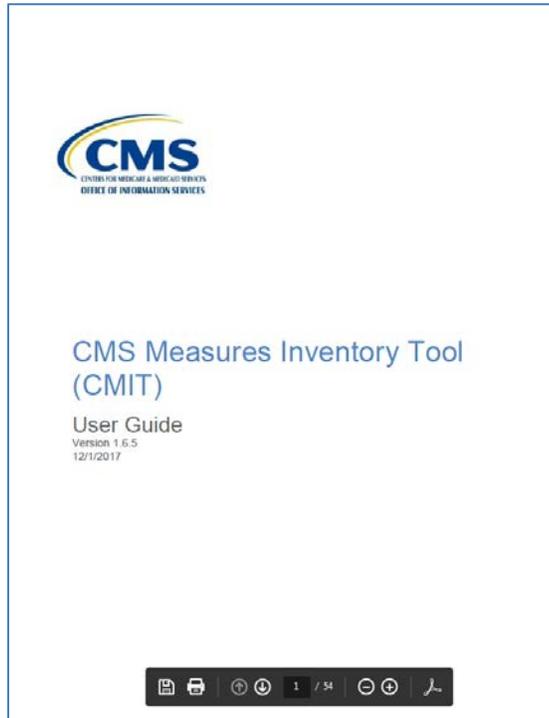


Figure 19. Display Options for CMIT User Guide

- Select the appropriate icon to either save  or print  the guide
- To navigate back to CMIT, click the **Measure Inventory** tab on your browser

3.2 Hyperlinks

Many items in CMIT are hyperlinked. Hyperlinks display in two ways:

- Blue Text
- Pointing Finger Icon – When you move the cursor over a hyperlink not displayed in blue text, the pointing finger icon appears, shown in Figure 20, indicating that you can click on the hyperlink to complete a function.

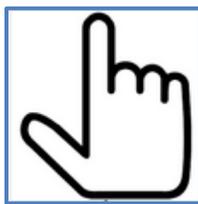


Figure 20. Pointing Finger Hyperlink Indicator

3.3 Contact Us

For support on CMIT, click **Contact Us** from the **About** pull-down menu as shown in Figure 21.



Figure 21. Contact Us Link

The **Contact Us** page will open, as shown in Figure 22.

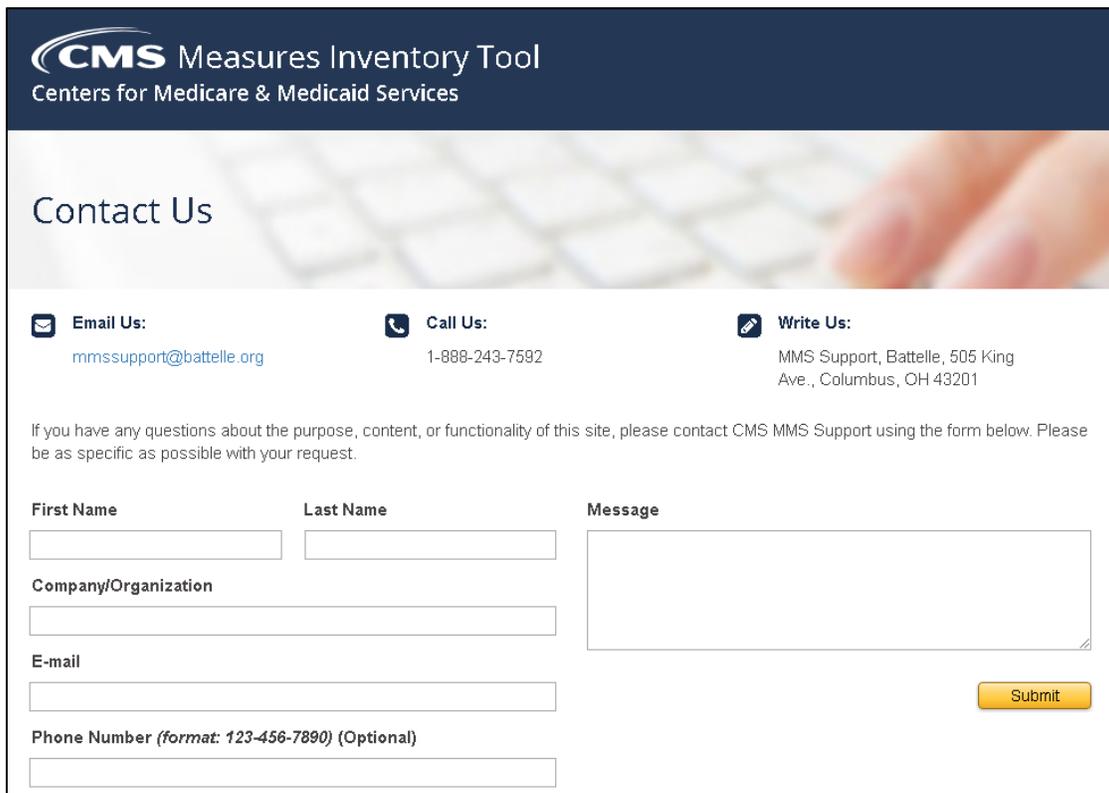


Figure 22. Support e-mail Link on the Contact Us Page

Follow the directions outlined on the **Contact Us** page if you have any questions regarding the purpose, content, or functionality of the site.

4. Measure Inventory

CMIT describes each measure using a set of attributes such as Measure Title, Description, Numerator, Denominator, and Measure Type (refer to Appendix C for a full list), and allows users to browse, search, sort, filter, export, view, print, and summarize the measures. Once you are logged into the system, CMIT defaults to the **Measure Inventory** page, shown in Figure 23.

The screenshot displays the 'CMS Measures Inventory Tool' interface. At the top, there is a search bar with the text 'Enter keywords or ID to search the measures inventory' and a search icon. Below the search bar, there are 'TABLE CONTROLS' including 'Show/Hide Columns' and 'Export Excel File'. The main content area shows '2,189 MEASURE RESULTS' and '4,771 MEASURE PROGRAM RESULTS'. A table lists measures with columns for Measure Title, NQF Endorsement Status, NQF ID, Programs, and Measure Type. A 'FILTERS' sidebar on the left includes categories like Programs, Current Status, Measure Groups, Development Stage, Primary Healthcare Priority, Secondary Healthcare Priority, Measure Type, and NQF Endorsement Status.

Measure Title	NQF Endorsement Status	NQF ID	Programs	Measure Type
3-Item Care Transitions Measure (CTM-3)	Endorsed	0228	<ul style="list-style-type: none"> Hospital Compare (Implemented) Hospital Inpatient Quality Reporting (Implemented) Hospital Value-Based Purchasing (Implemented) 	Process
30 Day Stroke and Death Rate for Asymptomatic Patients undergoing carotid stent placement	Unknown	9999	<ul style="list-style-type: none"> Medicare Shared Savings Program (Planned) Merit-Based Incentive Payment System (MIPS) Program (Planned) 	Outcome
30 Day Stroke and Death Rate for Symptomatic Patients undergoing carotid stent placement	Unknown		<ul style="list-style-type: none"> Merit-Based Incentive Payment System (MIPS) Program (Considered) 	Outcome

Figure 23. CMIT default Measure Inventory page

The Measure Inventory is the repository of record for information about the measures which CMS uses to promote healthcare quality and quality improvement. CMS and its partners use this measure inventory to inform stakeholders, to manage its measure portfolio, and to guide measure development. The inventory contains information describing each of the measures including the measure title, program, status, measure groups, quality domain, development stage, healthcare priorities, and other measure specifications. See Appendix C for a complete list of measure specifications available in CMIT.

If you navigate away from the **Measure Inventory** page, you can return to it by clicking the **Measure Inventory** tab, as shown in Figure 24.

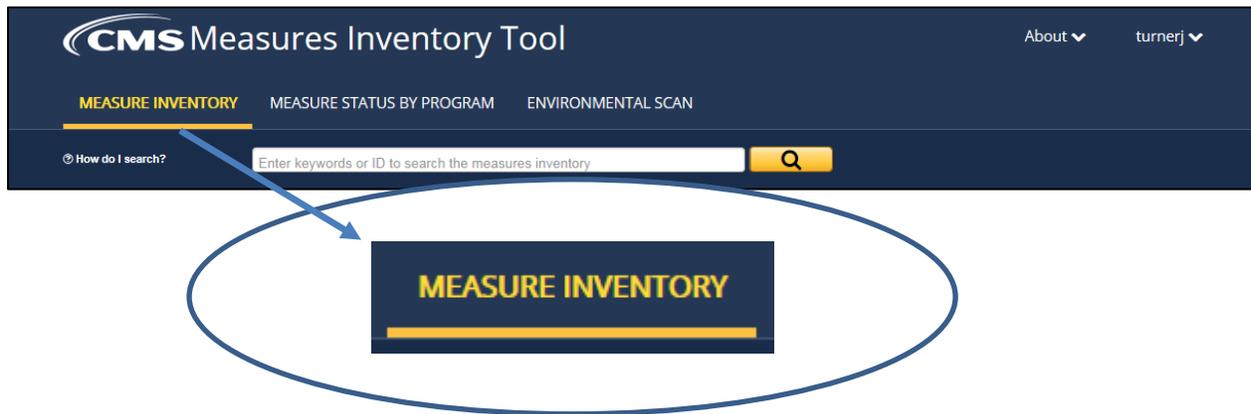


Figure 24. Measure Inventory Tab

4.1 Measure Inventory View Types

The Measure Inventory page displays measures in two view types, **Measure Results** and **Measure Program Results**, as shown in Figure 25. To change the **View Type**, simply click the appropriate **option**.

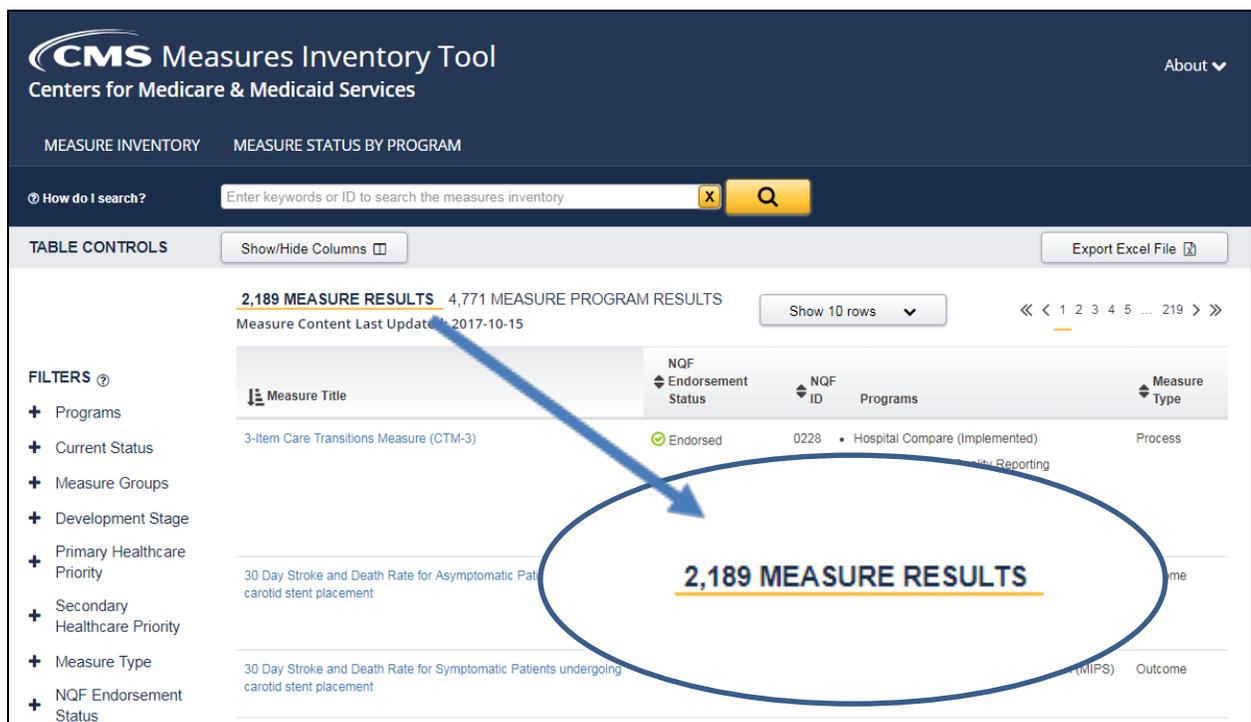


Figure 25. The Measure Results View Types

The **Measure Results** view provides a hyperlinked list of measures along with other descriptors. It contains one result per measure regardless of how many programs are associated with that measure; therefore, a measure will not be repeated once for each

program with which it is associated. Hovering over a column name in the table header will display a tool tip describing the column.

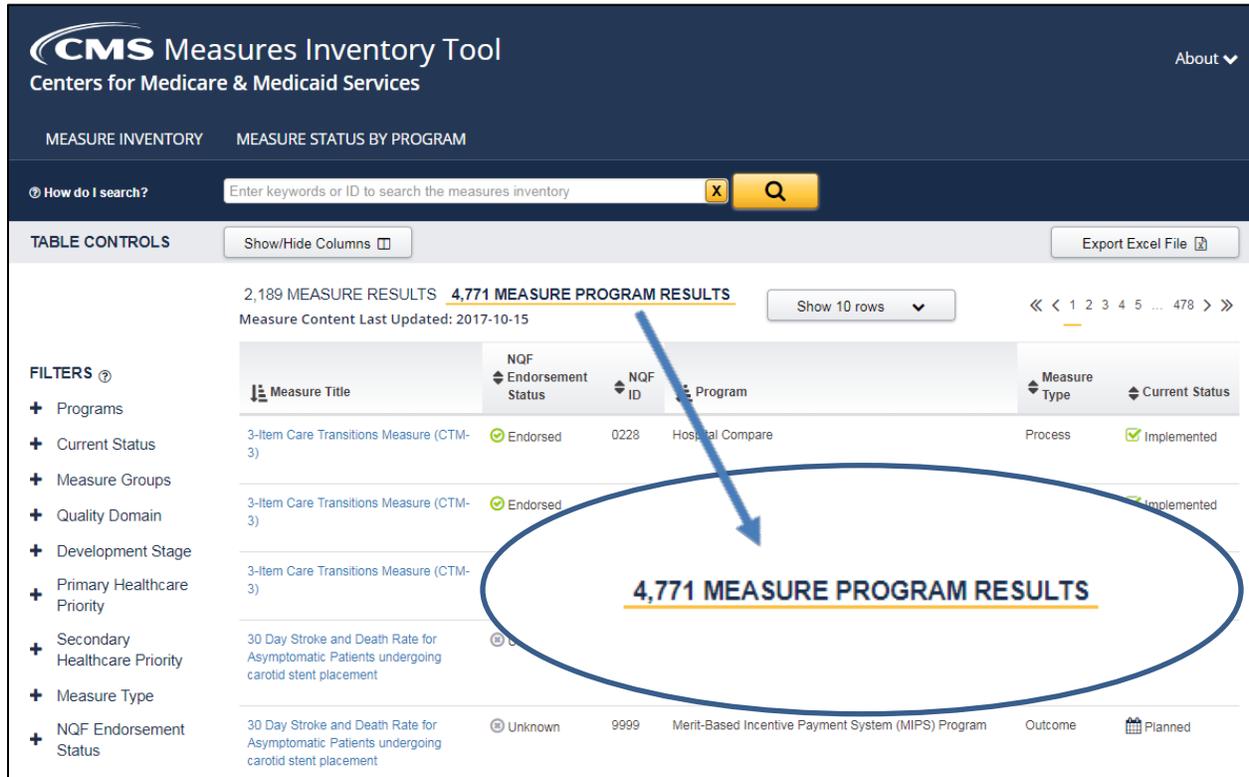


Figure 26. Measure Inventory page using the Measure Program Results View

The **Measure Program Results** view provides a hyperlinked list of measures along with other descriptors, as shown in Figure 26. It contains one result per measure and program combination; therefore, a measure will be repeated once for each program with which it is associated. Note that the counts returned are the number of measure program combinations, not necessarily the number of discrete measures. Hovering over a column name in the table header will display a tool tip describing the column.

4.2 Measure Inventory Filters

If you click on the question-mark icon next to FILTERS, a pop-up dialogue box provides a brief explanation of the filter feature, as shown in Figure 27.

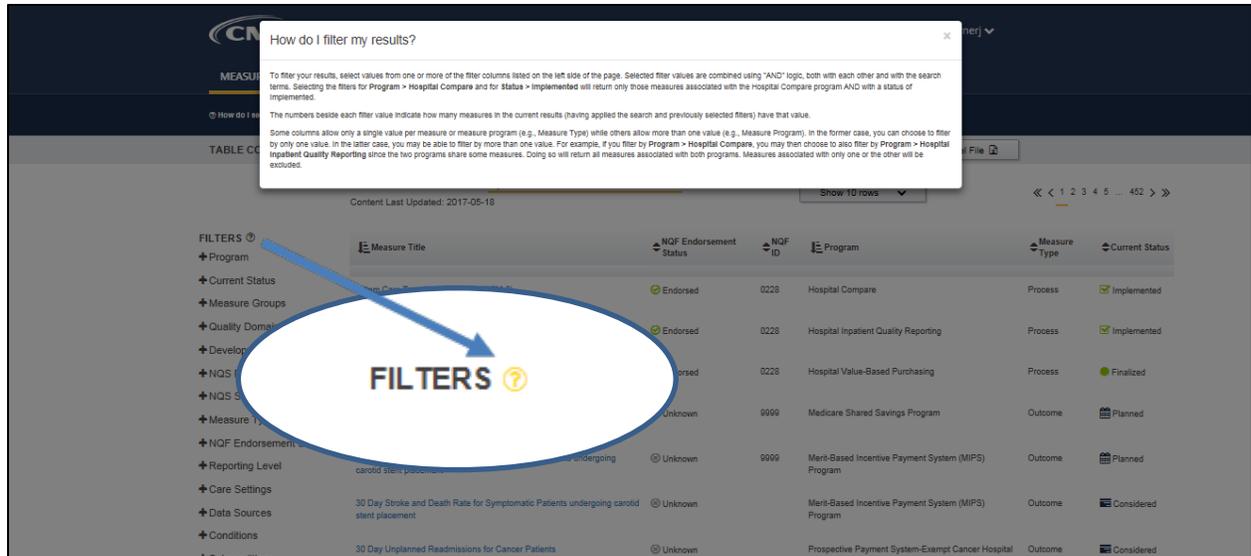


Figure 27. Pop-up Dialogue Box Explanation of Filter Feature

Both **Measure Inventory View Types** include filters which allow you to refine your search, as shown in Figure 28. See Appendix C for a complete list of measure specification filter categories (a.k.a. columns) available in CMIT.

You can choose more than one **Filter** and more than one **Filter Category** within each **Filter** to narrow search results. **Filter Categories** appear when you click the **Filter** name. As seen in Figure 28, the number in parenthesis to the right of the **Filter Category** indicates the number of measures that meet that criteria.

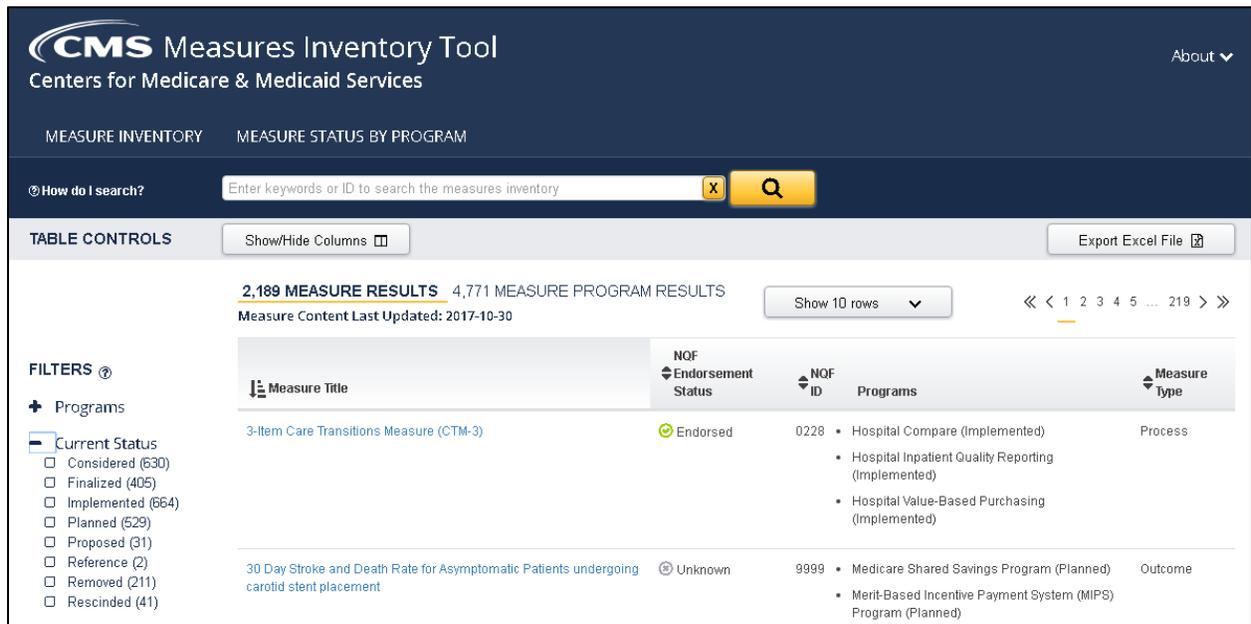


Figure 28. Current Status Filter Categories

Filtering is only available for columns with limited possible values (that is, it is not available for columns that have free text). As shown in Figure 29, the list of available **Filters** appears on the left hand side of the Measure Inventory Screen.

The screenshot shows the CMS Measures Inventory Tool interface. At the top, there is a header with the CMS logo and 'Measures Inventory Tool' text. Below the header, there are navigation tabs for 'MEASURE INVENTORY' and 'MEASURE STATUS BY PROGRAM'. A search bar is present with the text 'Enter keywords or ID to search the measures inventory'. Below the search bar, there are 'TABLE CONTROLS' including 'Show/Hide Columns' and 'Export Excel File'. The main content area displays '2,189 MEASURE RESULTS' and '4,771 MEASURE PROGRAM RESULTS' with a 'Show 10 rows' dropdown and pagination controls. On the left side, there is a 'FILTERS' panel with various categories like 'Programs', 'Current Status', 'Measure Groups', etc. The main table has columns for 'Measure Title', 'NQF Endorsement Status', 'NQF ID', 'Programs', and 'Measure Type'. The table lists several measures, such as '3-Item Care Transitions Measure (CTM-3)', '30 Day Stroke and Death Rate for Asymptomatic Patients...', and '30 Day Unplanned Readmissions for Cancer Patients'.

Figure 29. Filter Categories

To activate a **Filter Category**, click the appropriate plus sign to the left of the category. A list of sub-categories will be displayed. To select a sub-category, click the appropriate box to the left of the sub-category. A check mark will appear inside the box, indicating that a **Filter Selection** has been made, as shown in Figure 30.

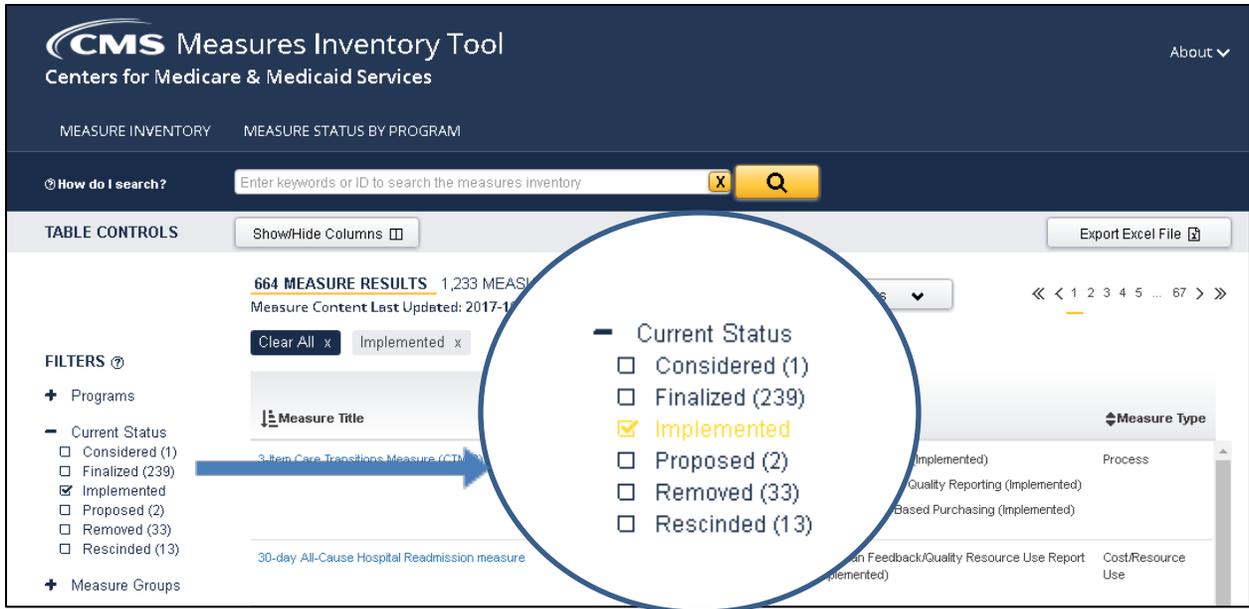


Figure 30. Filter Selection

After making a **Filter Selection**, the system updates the result list with the active filters listed above the results list, as shown in Figure 31.

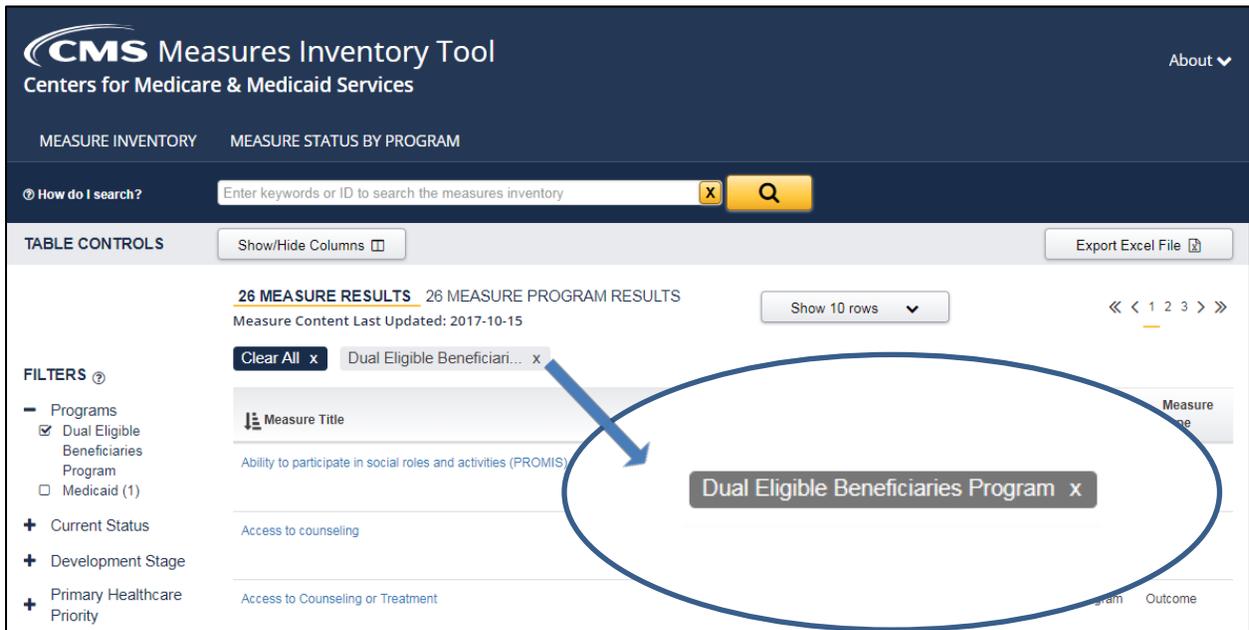


Figure 31. Filter Indication

To remove a filter selection, click on the x next to the filter name. To remove all filter selections, click on the **Clear All** button, as shown in Figure 32.

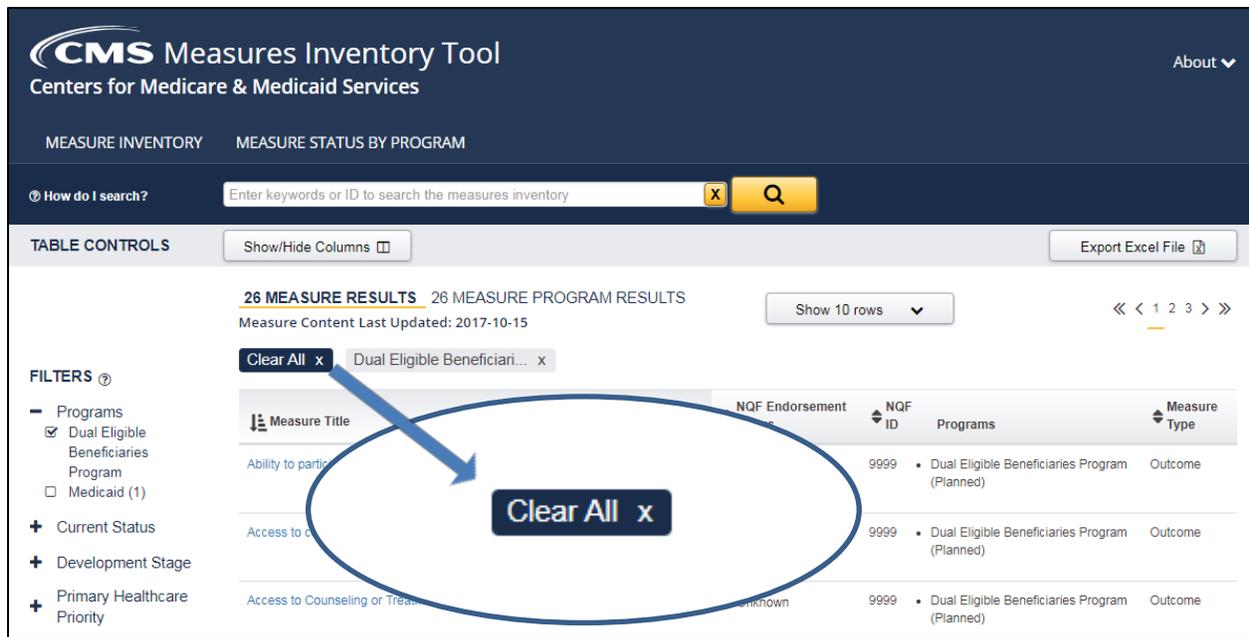


Figure 32. Removing a Filter Selection

4.3 Viewing Measure Properties in the Measure Inventory

Clicking a hyperlinked measure name on the **Measure Inventory** page takes you to the Measure Properties page for the selected measure. This page includes tabs titled **Measure Properties**, **Steward/Contractor**, **Measure Characteristics**, **Measure Groups**, **Measure Programs** and **Environmental Scan**.

As an example, if you click on the measure titled *Aspirin prescribed at discharge for AMI*, the **Measure Properties** page, shown in Figure 33, will open. The **Measure Properties** page displays all the detailed information about the measure including the Description, Numerator, Denominator, Denominator Exclusions, Rationale, and Evidence. Hovering over a field label will display a tool tip describing each field.

Aspirin prescribed at discharge for AMI (Chart-abstracted)

NQF ENDORSEMENT STATUS: ✔ Endorsed - Reserve | NQF ID: 0142 | MEASURE TYPE: Process | LAST UPDATED IN CMIT: 2017-06-28

VIEW DESCRIPTION

PROPERTIES	DEVELOPER / STEWARD	CHARACTERISTICS	GROUPS	PROGRAMS	LINKS
Description	Percentage of acute myocardial infarction (AMI) patients who are prescribed aspirin at hospital discharge				
Numerator	AMI patients who are prescribed aspirin at hospital discharge				
Denominator	AMI patients (International Classification of Diseases, 9th revision, Clinical Modification [ICD-9-CM] principal diagnosis code of AMI: 410.00, 410.01, 410.10, 410.11, 410.20, 410.21, 410.30, 410.31, 410.40, 410.41, 410.50, 410.51, 410.60, 410.61, 410.70, 410.71, 410.80, 410.81, 410.90, 410.91)				
Denominator Exclusions	Excluded Populations: <18 years of age, Patients who have a length of stay greater than 120 days, Patients enrolled in clinical trials, Discharged to another hospital, Expired, Left against medical advice, Discharged to home for hospice care, Discharged to a health care facility for hospice care, Patients with comfort measures only documented, Patients with a documented reason for no aspirin at discharge				
Rationale	Not available				
Evidence	Not available				

Figure 33. Truncated View of a Measure Properties Page

The **Developer/Steward** tab displays all the detailed information about the measure Steward or Contractor including the Steward, Contractor, and Agency Contact, as shown in Figure 34. Hovering over a field label will display a tool tip describing each field.

Aspirin prescribed at discharge for AMI (Chart-abstracted)

NQF ENDORSEMENT STATUS: ✔ Endorsed - Reserve | NQF ID: 0142 | MEASURE TYPE: Process | LAST UPDATED IN CMIT: 2017-06-28

VIEW DESCRIPTION

PROPERTIES	DEVELOPER / STEWARD	CHARACTERISTICS	GROUPS	PROGRAMS	LINKS
Steward	Centers for Medicare & Medicaid Services (CMS)				
Contact	MMSSupport@Battelle.org				
Measure Developer	Not available				
Development Stage	Fully Developed				

Figure 34. Truncated View of a Developer/Steward Tab

The **Characteristics** tab displays all the detailed information about the measure including the Type, the NQF Endorsement Status, the NQF ID and the Last NQF Update, as shown in Figure 35. Hovering over a field label will display a tool tip describing each field.

Aspirin prescribed at discharge for AMI (Chart-abstracted)

NQF ENDORSEMENT STATUS: ✔ Endorsed - Reserve | NQF ID: 0142 | MEASURE TYPE: Process | LAST UPDATED IN CMIT: 2017-06-28

[VIEW DESCRIPTION](#)

PROPERTIES	DEVELOPER / STEWARD	CHARACTERISTICS	GROUPS	PROGRAMS	LINKS
Measure Type	Process	Target Population Age	Not available		
Meaningful Measure	Not available	Target Population Age (High)	Not available		
Primary Healthcare Priority	Promoting the most effective Prevention and Treatment Practices for the Leading Causes of Mortality	Target Population Age (Low)	Not available		
Secondary Healthcare Priority	Not available	Reporting Level	Facility		
eCOM Spec Available	Not Available	Conditions	Cardiovascular Disease		
NQF Endorsement Status	✔ Endorsed - Reserve	Subconditions	Acute Myocardial Infarction (AMI)		
NQF ID	0142 (NQF Website)	Care Settings	Hospital/Acute Care Facility		
Last NQF Update	2013-10-30				

Figure 35. Truncated View of a Measure Characteristics Tab

The **Groups** tab displays all the detailed information about the measure groups for this measure including the Measure Group and the Identifier, as shown in Figure 36. Hovering over a field label will display a tool tip describing each field.

4: Aspirin prescribed at discharge for AMI

[VIEW DESCRIPTION](#) | NQF ENDORSEMENT STATUS: ✔ Endorsed - Reserve | NQF ID: 0142 | MEASURE TYPE: Process | LAST UPDATED: Not available

MEASURE PROPERTIES	STEWARD/CONTRACTOR	MEASURE CHARACTERISTICS	MEASURE GROUPS	MEASURE PROGRAMS	ENVIRONMENTAL SCAN
Measure Group	Identifier				
AMI	02				

Figure 36. Truncated View of a Measure Groups Tab

The **Programs** tab displays all the detailed information about the measure programs, as shown in Figure 37. Hovering over a field label will display a tool tip describing each field.

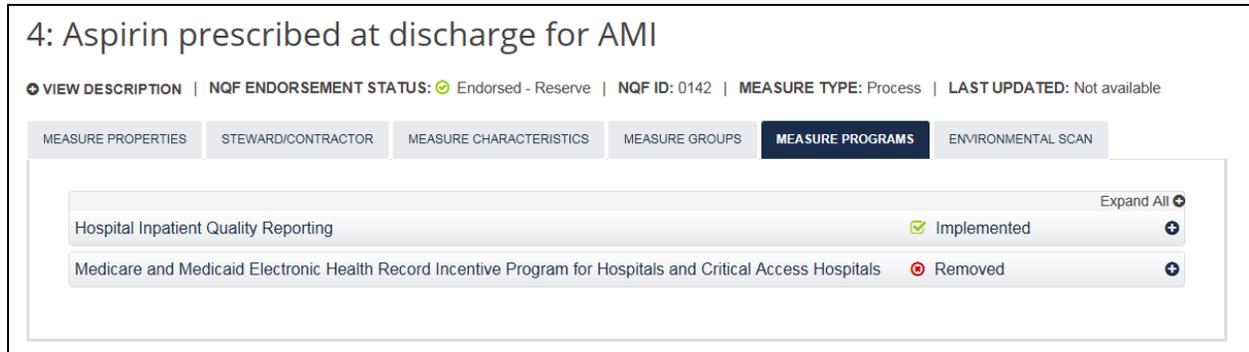


Figure 37. Truncated View of a Measure Programs Tab

The **Environmental Scan** tab (Controlled Access Only) displays a list of medical literature citations which are likely relevant to the selected measure. Each row on this tab represents one citation and includes the Relevance, Source, Publication Date, Source Document Title, User Relevance Ratings, and a View Full Text button, as shown in Figure 38. Hovering over a field label will display a tool tip describing each field. See section 6 for more information about the Environmental Scan.



Figure 38. Truncated View of an Environmental Scan Tab

4.4 Showing or Hiding Columns in Measure Inventory

To show or hide columns, click the **Show/Hide Columns** button. The **Show/Hide Columns** button brings up a dialogue box, as shown in the truncated view of the page in Figure 39.

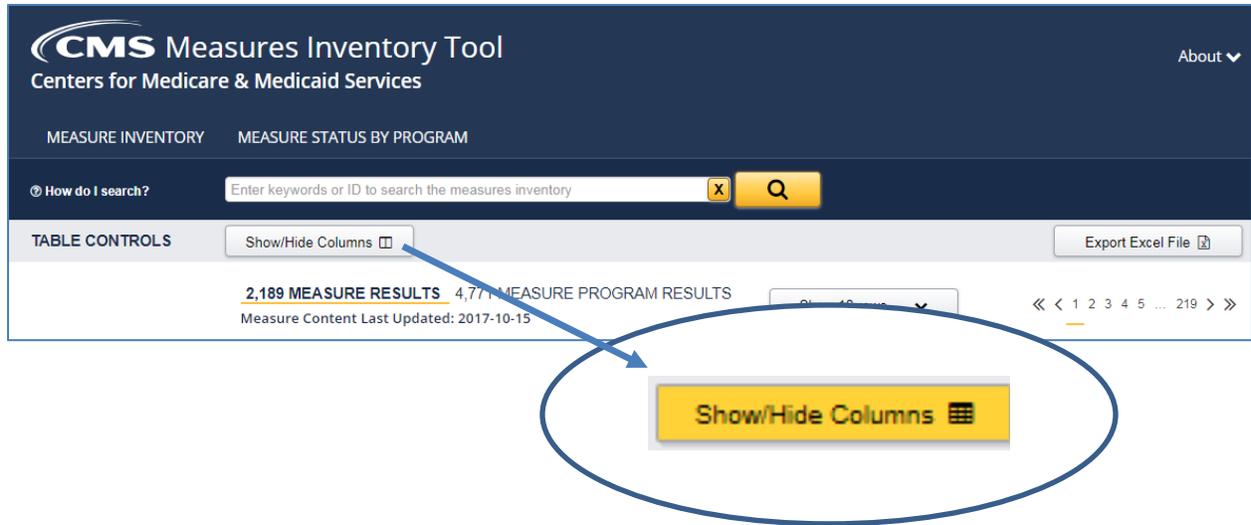


Figure 39. Truncated View of Show/Hide Columns Button

The **Measure Inventory** page defaults to a view that shows five columns, representing five key measure specifications. To change the columns displayed, click **Show/Hide Columns**. A popup box will appear that shows a list of column options; a truncated view is shown in Figure 40. Click the appropriate Column Name to indicate that you have made a selection. Click on the **Column Name** again to deselect a **Column Name**.



Figure 40. Truncated View of Show/Hide Columns Dialogue Box

After completing your selection, click the [x] in the top-right of the dialog or anywhere on the page (outside the popup box). The page will now show all the selected columns.

4.5 Changing the Order of Columns in the Measure Inventory

To change the order of the columns, click and hold the left mouse button on a column header and drag the column header. An image of the column header will follow the cursor and a blue line between columns will indicate where the column will be placed. Release the mouse when the column is in the desired location.

4.6 Sorting by Column in the Measure Inventory

To sort results by a specific column, click the **Column Name**. The page will refresh, showing the results sorted by your selection. As an example, Figure 41 shows the **Measure Inventory** page displaying search results sorted by the **Measure Title** column, in alphabetical order.

Relevance	Measure Title	NQF Endorsement Status	NQF ID	Programs	Measure Type
■	Adherence to Antiplatelet Treatment after Stent Implantation	Unknown		<ul style="list-style-type: none"> Medicare Physician Quality Reporting System (Considered) Medicare Shared Savings Program (Considered) Physician Compare (Considered) Physician Feedback/Quality Resource Use Report (Considered) Physician Value-Based Payment Modifier (Considered) 	Intermediate Outcome
■	Aspirin at Arrival	Endorsement Removed	0286	<ul style="list-style-type: none"> Hospital Compare (Implemented) Hospital Outpatient Quality Reporting (Implemented) 	Process

Figure 41. Columns Sorted by Measure Title

Note in the enlarged view of the column names shown in Figure 42 that the **Measure Title** column is selected, and set to ascending, alphabetical order, as shown by the icon beside the column name along with the reverse shading of the header.

Relevance	Measure Title	NQF Endorsement Status	NQF ID
-----------	---------------	------------------------	--------

Figure 42. Truncated View of Columns, sorted by Measure Title

To reverse the sort order, simply click the column title again. The page will refresh and display the data according to the new selection. Following the example above, Figure 43 shows an expanded, truncated view of the **Measures Inventory** page, sorted by **Measure Title**, in reverse alphabetical order.

Relevance	Measure Title	NQF Endorsement Status	NQF ID	Programs	Measure Type
<div style="width: 20%;"></div>	Preoperative Use of Aspirin for Patients with Drug Eluting Coronary Stents	Unknown		<ul style="list-style-type: none"> Medicare Physician Quality Reporting System (Considered) Medicare Shared Savings Program (Considered) Physician Compare (Considered) Physician Feedback/Quality Resource Use Report (Considered) Physician Value-Based Payment Modifier (Considered) 	Process
<div style="width: 20%;"></div>	Post-Procedural Optimal Medical Therapy Composite (Percutaneous Coronary Intervention)	Not Endorsed	9999	<ul style="list-style-type: none"> Medicare Physician Quality Reporting System (Implemented) Physician Feedback/Quality Resource Use Report (Implemented) Physician Value-Based Payment Modifier (Implemented) 	Process

Figure 43. Columns Sorted by Measure Title, in Reverse Order

To sort by additional columns, hold down the shift key  on your keyboard, while clicking an additional column name. The page will refresh, and sort by both columns. Following the example above, Figure 44 shows the default **Measure Inventory** page sorted by the **Measure Title** column, in alphabetical order, and then by the **NQF Endorsement Status**.

Relevance	Measure Title	NQF Endorsement Status	NQF ID	Programs	Measure Type
<div style="width: 10%;"></div>	Adherence to Antiplatelet Treatment after Stent Implantation	Unknown		<ul style="list-style-type: none"> Medicare Physician Quality Reporting System (Considered) Medicare Shared Savings Program (Considered) Physician Compare (Considered) Physician Feedback/Quality Resource Use Report (Considered) Physician Value-Based Payment Modifier (Considered) 	Intermediate Outcome
<div style="width: 25%;"></div>	Aspirin at Arrival	Endorsement Removed	0286	<ul style="list-style-type: none"> Hospital Compare (Implemented) Hospital Outpatient Quality Reporting (Implemented) 	Process

Figure 44. Columns Sorted by Measure Title and by NQF Endorsement Status

4.7 Searching the Measure Inventory

CMIT includes a **Keyword** search field as shown in Figure 45.

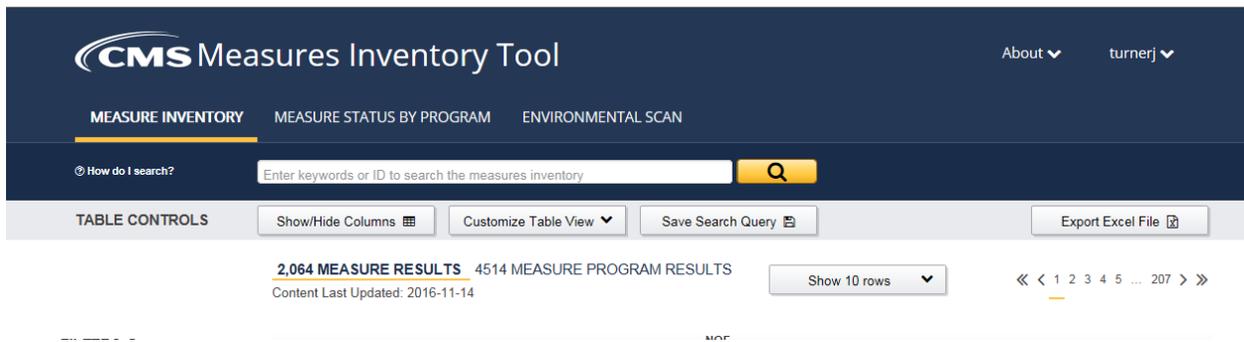


Figure 45. Keyword Search

To search measures within the **Measure Inventory**, type one or more keywords in the search box and hit the enter key  on your keyboard, or click the magnifying glass  icon. The system searches all columns with text values regardless of whether those columns are currently included in the display. Searches are not case-sensitive.

You can search a single keyword, multiple keywords, or a phrase. When provided with more than one term, CMIT will return all measures containing at least one of the terms.

4.8 Saving and Opening a Search or View (Controlled Access Only)

To save a search which includes both the keywords and the filters, click the Save Search button, as shown in Figure 46.

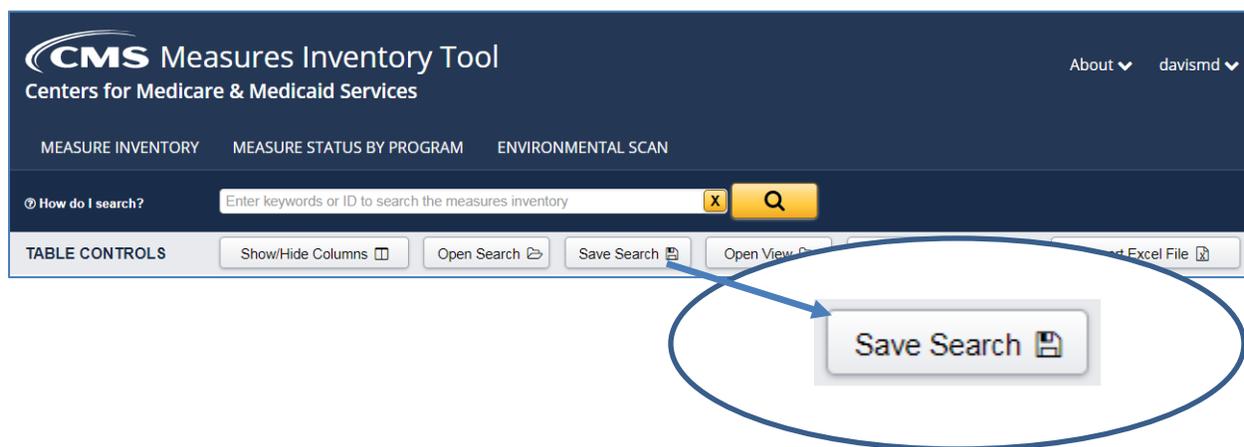


Figure 46. Save Search Button

A pop-up dialog will appear as shown in Figure 47. Enter a name for the search and click Save.

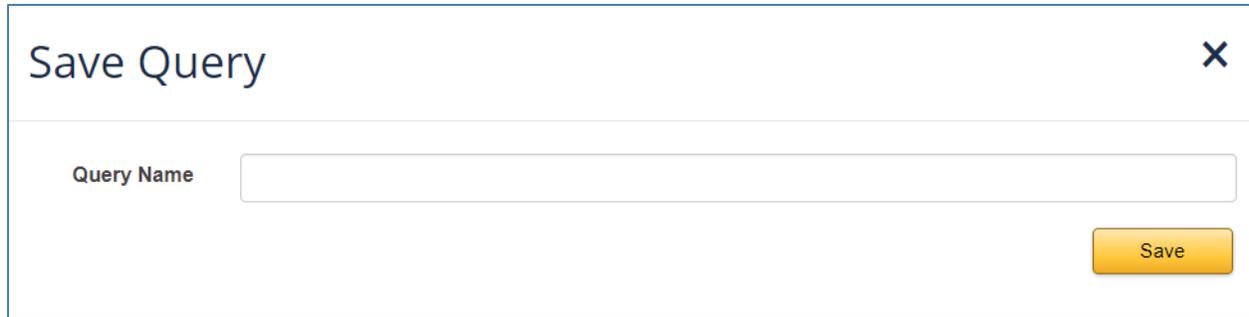
A dialog box titled "Save Query" with a close button (X) in the top right corner. Below the title is a text input field labeled "Query Name". At the bottom right of the dialog is a yellow "Save" button.

Figure 47. Save Search Dialog

To open a saved search, click the Open Search button. A pop-up dialog will appear as shown in Figure 48. Click on the search you wish to open. Click the trash can icon to delete a saved search.

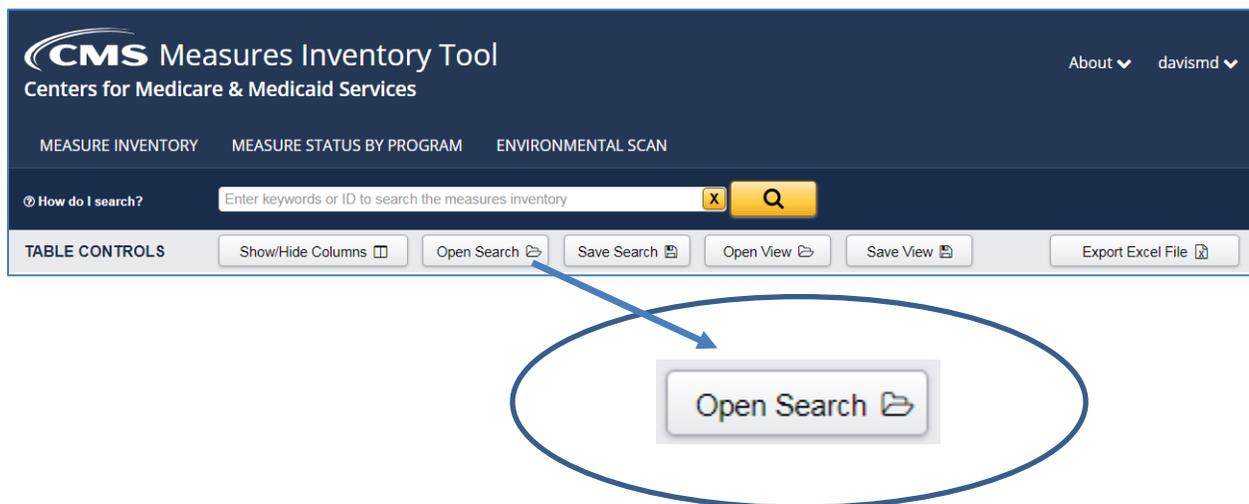


Figure 48. Open Search Button

Similarly, to save a view which includes the view type, selected columns, column order, and sort order, click the Save View button. To open a saved view, click the Open View button. A pop-up dialog will appear. Click on the view you wish to open. Click the trash can icon to delete a saved view.

4.9 Exporting the Measure Listing from the Measure Inventory

To export the predefined view or current view of the measures listed in the **Measure Inventory**, click the **Export Excel File** button, as shown in Figure 49.

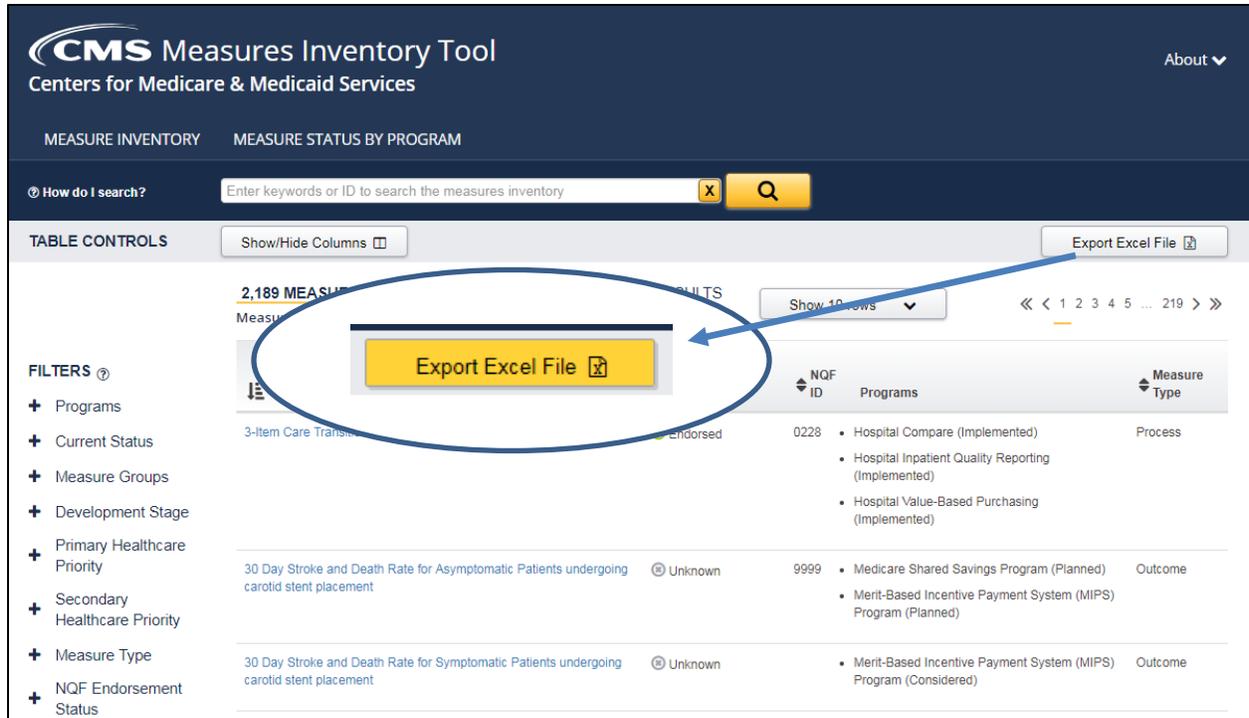


Figure 49. Export Option in the Measure Inventory View

The browser will download the file. The interface for saving the file is part of the browser and varies by browser. Internet Explorer presents three choices within the popup window. You can **Open** the file, **Save** the file, or **Cancel** the selection as shown in Figure 50.

Once you click the **Export Excel File** button, a yellow popup box will appear at the bottom of the screen, as shown in Figure 50. In the example below, a keyword search of **prostate cancer** returned 324 entries, and clicking **Export Excel File**, opened the popup window at the bottom of the page.

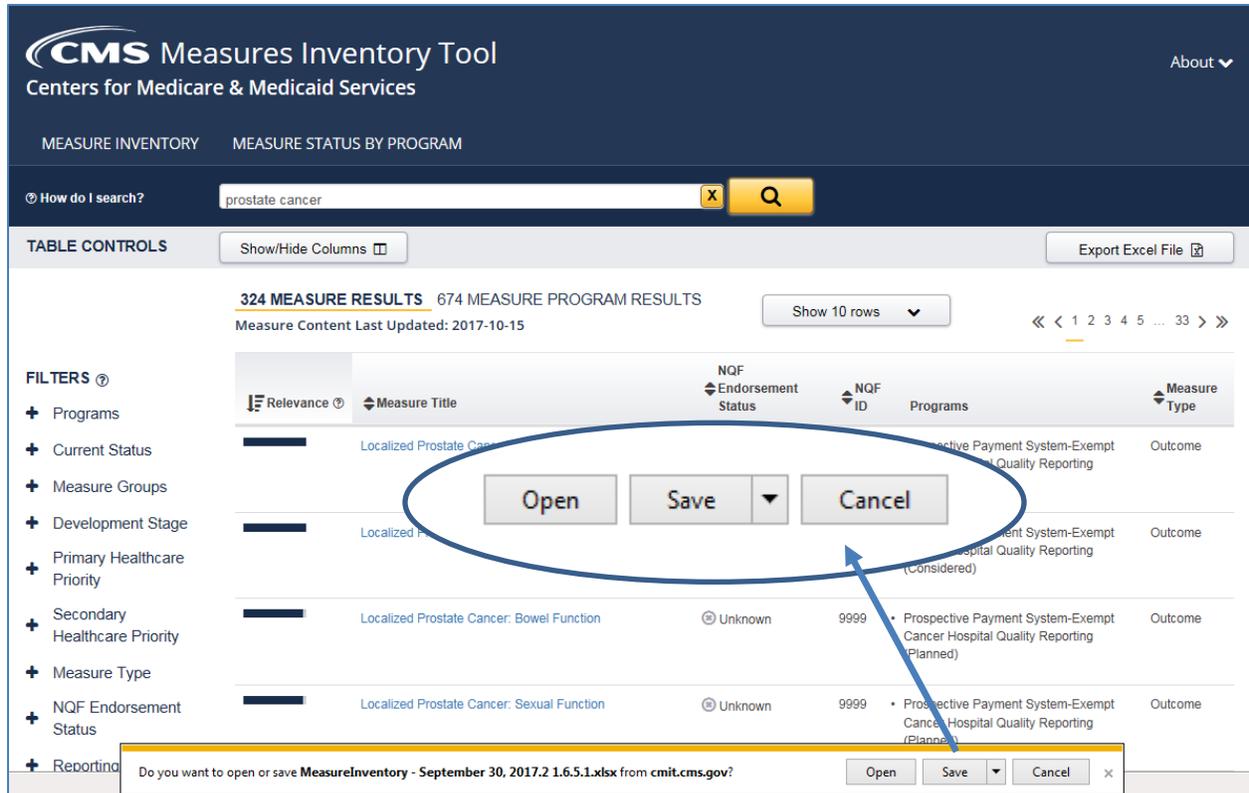


Figure 50. Open, Save, or Cancel Exported Data

If you click **Open**, a Microsoft Excel spreadsheet opens in protected view, as shown in Figure 51. You must click **enable editing** at the top of the spreadsheet to refresh the page to a view where you can manipulate the data.

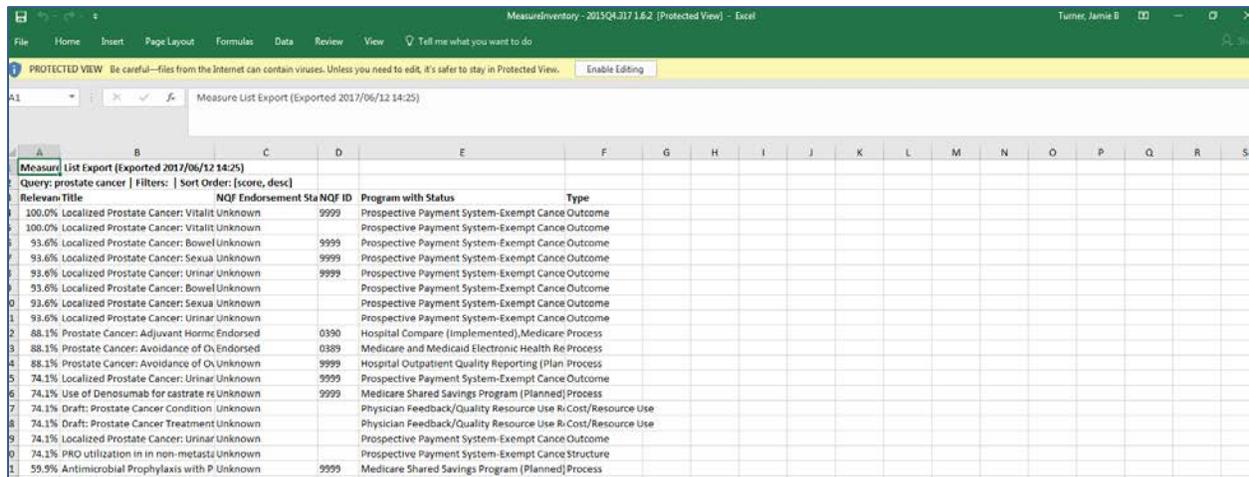


Figure 51. Enable Editing in Excel

If you opt not to **Open** the file, but instead click the **Save** dropdown menu, you are prompted to **Save**, **Save as**, or **Save and open** the file.

- Click **Save as**. A popup window will open as shown in Figure 52
- Select the folder in which to download and save the file
- In the popup window, click **Save**

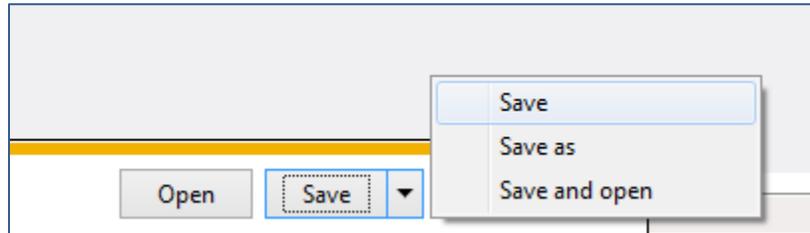


Figure 52. Saving the Exported Measure Inventory

5. Measure Status by Program View

CMIT can also present measures using the **Measure Status by Program** page. To view the **Measure Status by Program** page, click the **Measure Status by Program** tab as shown in Figure 53.

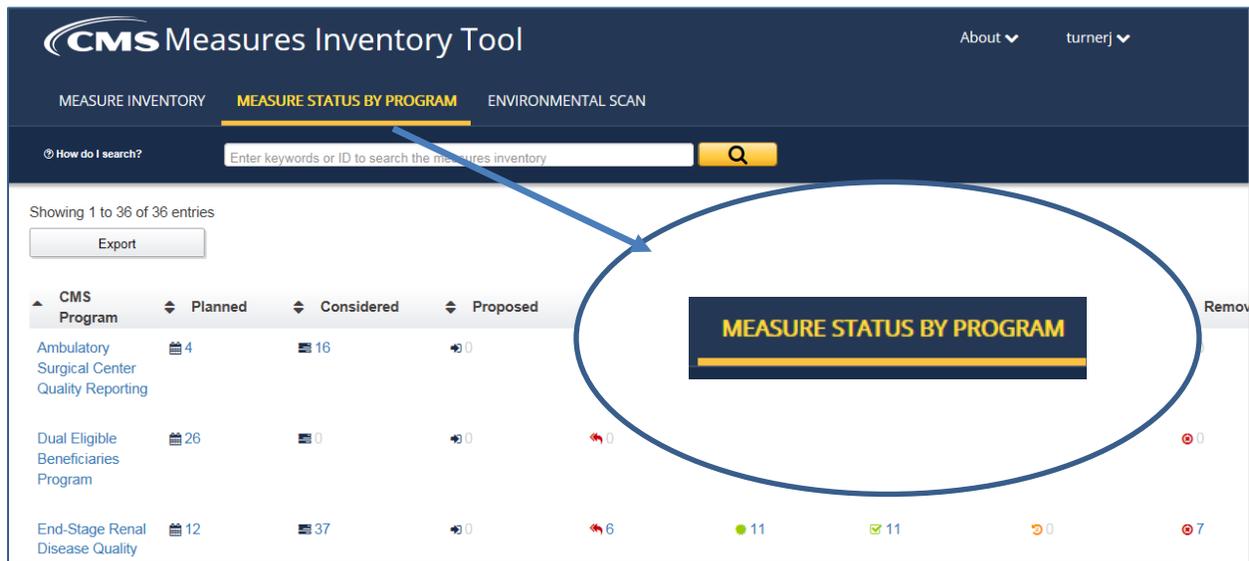


Figure 53. Measure Status by Program Tab

The **Measure Status by Program** page displays the count of measures by status and program in alphabetical order. Within the **Measure Status by Program** page, one view type is available, as shown in Figure 54.

Measures may be associated with more than one program. Measures not associated with a program will not appear.

Measure Content Last Updated: 2017-10-15 Export Excel File

CMS Program	Planned	Considered	Proposed	Rescinded	Finalized	Implemented	Suspended	Removed
Ambulatory Surgical Center Quality Reporting	4	13	3	0	8	11	0	0
Dual Eligible Beneficiaries Program	26	0	0	0	0	0	0	0
End-Stage Renal Disease Quality Incentive Program	17	34	3	6	11	11	0	7
HEDIS Quality Measure Rating System	7	0	0	0	0	0	0	0

Figure 54. Measure Status by Program Page

5.1 Sorting the Measure Status by Program View

You can sort results by column by clicking a **Column Name**. CMIT indicates which columns are sorted with an icon next to the column name along with reverse shading in the column header.

To sort in reverse order, click the column title again. The page will refresh and display the data according to the new selection. As an example, Figure 55 shows the **Implemented** column is sorted in descending order.

Measures may be associated with more than one program. Measures not associated with a program will not appear.

Measure Content Last Updated: 2017-10-15 Export Excel File

CMS Program	Planned	Considered	Proposed	Rescinded	Finalized	Implemented	Suspended	Removed
Medicare Physician Quality Reporting System	91	205	0	2	0	217	0	12
Physician Feedback/Quality Resource Use Report	1	262	0	0	36	188	0	10
Physician Value-Based Payment Modifier	86	262	0	1	36	187	0	10
Hospital Compare	0	0	9	2	5	85	0	12
Hospital Inpatient Quality Reporting	47	74	0	1	8	79	0	30

Figure 55. Measure Status by Program Sorting Selection

5.2 Exporting the Measure Status by Program View

To export the current view of the **Measure Status by Program**, click **Export Excel File** as shown in Figure 56.

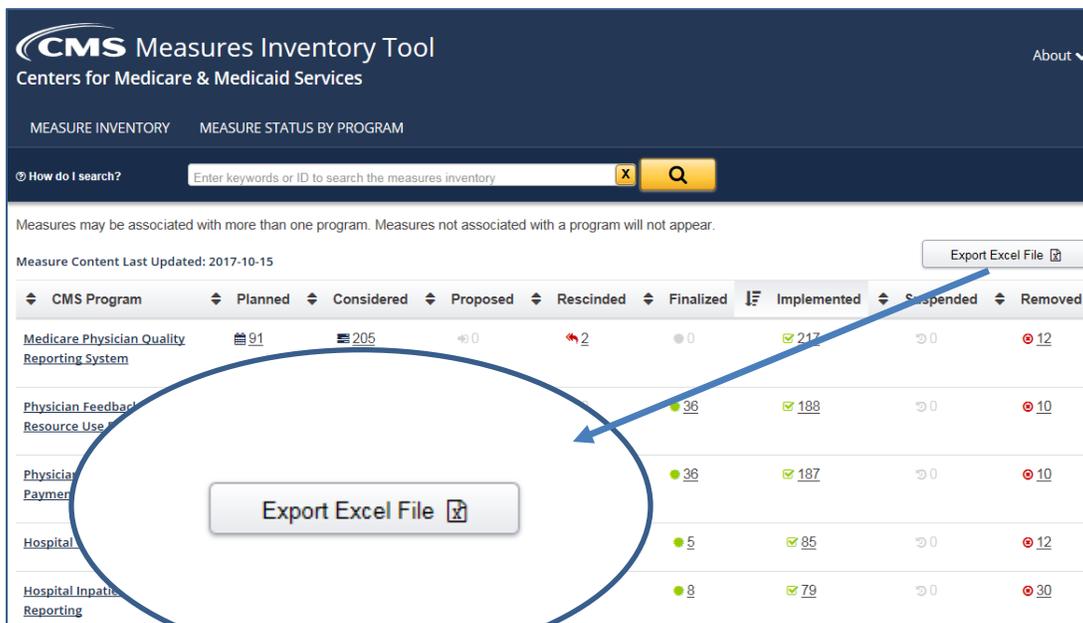


Figure 56. Export Option for the Measure Status by Program View

Once you click the **Export Excel File** button, a popup box will appear as shown in Figure 57, prompting you to **Open**, **Save**, or **Cancel** your selection.

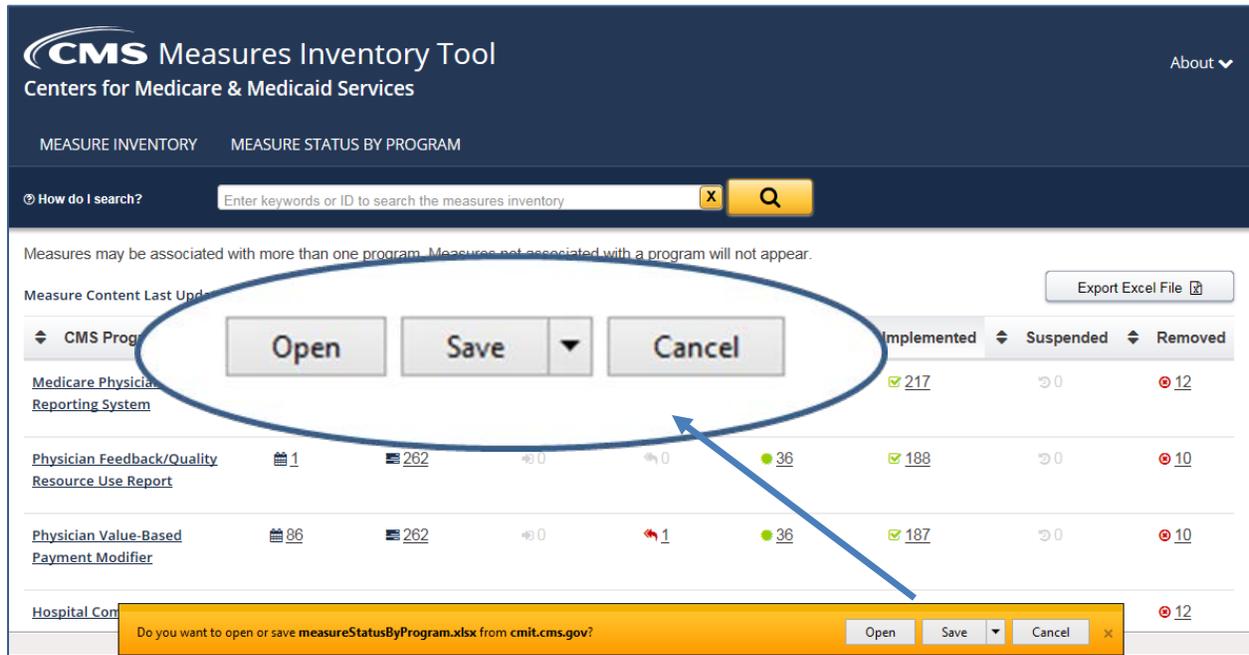


Figure 57. Open, Save, or Cancel selections for Measure Status by Program View

If you click **Open**, a Microsoft Excel spreadsheet opens as shown in Figure 58.

	A	B	C	D	E	F	G	H	I
1	CMS Program	Planned	Considered	Proposed	Rescinded	Finalized	Implemented	Suspended	Removed
2	Medicare Physician Quality Reporting System	91	206	0	2	0	217	0	12
3	Physician Feedback/Quality Resource Use Report	1	262	0	0	36	188	0	10
4	Physician Value-Based Payment Modifier	86	262	0	1	36	187	0	10
5	Hospital Compare	0	0	0	2	16	77	0	9
6	Medicaid	9	0	0	0	0	62	0	2
7	Home Health Quality Reporting	21	15	0	0	6	53	0	55
8	Hospital Inpatient Quality Reporting	48	74	0	1	11	43	0	22
9	Qualified Health Plan (QHP) Quality Rating System (QRS)	0	0	0	9	0	40	0	3
10	Medicare Part C Star Rating	0	0	0	0	0	32	0	0
11	Medicare Shared Savings Program	167	222	0	0	0	28	0	6
12	Hospital Outpatient Quality Reporting	13	27	0	1	9	24	0	6
13	Nursing Home Quality Initiative	0	0	0	0	0	24	0	0
14	Home Health Value Based Purchasing	0	0	0	5	0	20	0	4
15	Medicare and Medicaid Electronic Health Record Incentive Prog	14	16	0	1	0	16	0	13
16	Medicare Part D Star Rating	0	0	0	0	0	15	0	0
17	Inpatient Psychiatric Facility Quality Reporting	11	19	0	1	10	12	0	0
18	Ambulatory Surgical Center Quality Reporting	4	16	0	0	8	11	0	0
19	End-Stage Renal Disease Quality Incentive Program	12	37	0	6	11	11	0	7
20	Hospital Value-Based Purchasing	6	37	0	0	6	10	0	10

Figure 58. Opening an Excel Spreadsheet of the Measure Status by Program View

If you opt not to open the file, but instead click the **Save** dropdown menu, you are prompted to **Save**, **Save as**, or **Save and open** the file.

- Click **Save as**. A popup window will open as shown in Figure 59.

- Select the folder in which to download and save the file.
- In the popup window, click **Save**.

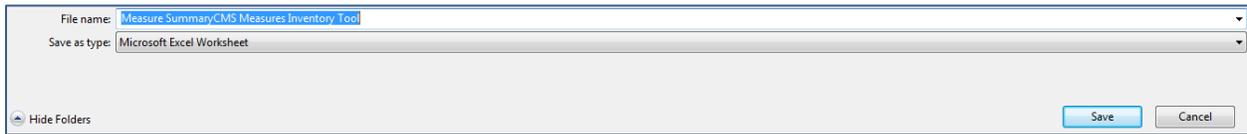


Figure 59. Saving the Exported Measure Status by Program View

To cancel your selection, click **Cancel**.

6. Environmental Scan (Controlled Access Only)

6.1 What is an Environmental Scan?

The Measures Management System (MMS) is responsible for conducting a monthly environmental scan of major medical journals with reference to published articles and clinical practice guidelines that address quality measures used in CMS programs, proposed for use, or under development. The environmental scan is a listing of the top 30 most relevant abstracts and top 30 most relevant full-text articles found in PubMed (2007 to present) for each measure.

6.2 Returning Results Beyond Keywords

The Environmental Scan uses traditional biomedical keywords to conduct the search, but abstracts and articles are also identified using a graph matching algorithm, where the graph is a knowledge representation of measure concepts: measure focus, target population, and evidence. These concepts are constructed from building blocks extracted from the measure summary, abstracts and articles using Natural Language Processing (NLP). Examples of building blocks include persons (including demographics), health status, use of services, care setting, and the quality construct (the structure and processes of care associated with better outcomes).

6.3 How the Environmental Scan Can Be Used

The environmental scan is intended to be used as an aid to measure developers, particularly in the maintenance phase of the measure life cycle. Experienced developers may find the environmental scan useful as a benchmark against which to compare manually conducted scan, and the measure concepts extracted from the abstract and article text may serve as a useful “markup” to increase the efficiency of abstract and article review. Some developers may find the emulated “expertise” informative to understanding the industry expectations around precise and comprehensive environmental scans. Other stakeholders interested in measures used in CMS programs will find the environmental scan a convenient, current, and accessible indexing of the published literature that provides evidentiary support for the opportunity for improvement.

6.4 How to Access the Environmental Scan for Each Measure

Use CMIT to search for and identify a measure of interest, then click the measure title to open the measure details page. The environmental scan output appears on the environmental scan tab of the measure details page as shown in Figure 60. The date of the last Environmental Scan is shown at the top left of the tab. CMIT includes the Relevance, Source, Publication Date, Source Document Title, and a link to the article on PubMed. Hovering over a column name will provide a more detailed description of the column. The list may be sorted by clicking on the columns. The list of citations can be exported by clicking the Export to Excel Choices button.

Aspirin prescribed at discharge for AMI (Chart-abstracted)

NQF ENDORSEMENT STATUS: ● Endorsed - Reserve | NQF ID: 0142 | MEASURE TYPE: Process | LAST UPDATED IN CMIT: 2017-06-28

VIEW DESCRIPTION

Edit Delete Edit History

PROPERTIES

DEVELOPER / STEWARD

CHARACTERISTICS

GROUPS

PROGRAMS

LINKS

ENVIRONMENTAL SCAN

Environmental Scan Last Updated: 2017-09-21 Export to Excel Choices

[How Does the Environmental Scan work?](#)

	Relevance	Source	Publication Date	Source Document Title	Associated Measures	Relevant Measure Concepts	User Relevance Ratings	Links
■	PMID	2017/Jun/14	Association of Preoperative Anti-Tumor Necrosis Factor Therapy With Adverse Postoperative Outcomes in Patients Undergoing Abdominal Surgery for Ulcerative Colitis.		View List		View Ratings (0) My Rating	View Full Text
■	PMID	2017/May/11	Regional Variation in Outcomes of Hospitalized Patients Having Out-of-Hospital Cardiac Arrest.		View List		View Ratings (0) My Rating	View Full Text
■	PMID	2008	Sensitivity of International Classification of Diseases codes for hyponatremia among commercially insured outpatients in the United States.		View List		View Ratings (0) My Rating	View Full Text
■	PMID	2011/Jul/1	The impact of ICD-9-CM code rank order on the estimated prevalence of Clostridium difficile infections.		View List		View Ratings (0) My Rating	View Full Text

Figure 60. Environmental Scan Tab of Measure Details

The Associated Measure column provides a link to other measures to which the citation is relevant. Clicking the link shows the dialog in Figure 61. This may be of assistance when working with related measures.

Associated Measures ✕

PMID 35902:

Content Type: CITATION | Publication Date: 2017/Jun/14 | Source: PMID | Ref No.: 28614561 | Document ID: 35902 View Full Text

MEASURES FOR WHICH THIS DOCUMENT IS RELEVANT

CMIT-2920	PSI 90: Patient Safety and Adverse Events Composite (Composite Measure)
CMIT-1353	Statin Prescribed at Discharge (Chart-abstracted)
CMIT-4	Aspirin prescribed at discharge for AMI (Chart-abstracted)
CMIT-104	Patient Safety for Selected Indicators (PSI90 - Composite)

Figure 61. Associated Measures Dialog

The Relevant Measure Concepts column provides links to further information about why the article was considered relevant to the measure. Clicking a link shows the dialog in Figure 62 which list the concepts found in the article organized by concept type.

Relevant Measure Concepts ✕

Measure: Aspirin prescribed at discharge for AMI (Chart-abstracted)

DOC: 35927 PMC : 4845120. Trends in Mortality Following Acute Myocardial Infarction Among Dialysis Patients in the United States Over 15½Years.

✔
Measure Focus

✔
 Target Population

✔
 Opportunity

Measure focus is the target, condition, event, or outcome. The rows of the Measure Focus table can be read as "The measure focus is Output Health Status" or "The measure focus is Output Care Setting." (e.g. "The measure focus is decreasing hypertension" or "The measure focus is reducing readmissions")

	Health Status	Care Setting
<div style="display: flex; justify-content: space-between; align-items: center;"> ⌵ Output </div> <p>declines, decrease, improvements, decline, decreased, improved, influence, primary, highest, associated with increased, differences, reduce</p> <p>highest, change in, significant, improve</p>	mortality	survival

Figure 62. Relevant Measure Concepts Dialog

The User Relevance Rating column allows users to provide feedback on the relevance of the article to the measure and to see other user's feedback. Clicking a link shows the dialog in Figure 63. This feedback will be used to improve the accuracy of future Environmental Scans.

User Relevance Ratings ✕

CMIT 4: Aspirin prescribed at discharge for AMI (Chart-abstracted)

NQF ENDORSEMENT STATUS: ✔ Not available | NQF ID: 0142 | MEASURE TYPE: Process | LAST UPDATED IN CMIT:

DOC 35902: Association of Preoperative Anti-Tumor Necrosis Factor Therapy With Adverse Postoperative Outcomes in Patients Undergoing Abdominal Surgery for Ulcerative Colitis.

Content Type: CITATION | Publication Date: 2017/Jun/14 | Source: PMID | Ref No.: 28614561 | Document ID: 35902 View Full Text [↗](#)

USER REVIEWS

RATE THIS DOCUMENT

WITH RESPECT TO THE MEASURE INDICATED ABOVE, IS THIS DOCUMENT RELEVANT TO...

...the Measure's Focus?	<input type="button" value="Not Rated"/> <input type="button" value="Yes"/> <input type="button" value="No"/>
...the Measure's Target Population?	<input type="button" value="Not Rated"/> <input type="button" value="Yes"/> <input type="button" value="No"/>
...the Evidence for the Measure's Opportunity for Improvement?	<input type="button" value="Not Rated"/> <input type="button" value="Yes"/> <input type="button" value="No"/>

Figure 63. User Relevance Ratings Dialo

Appendix A: CMIT Data Dictionary

Entity	Column Name	Population Status	Column Description
Measure Environmental Scan	Associated Measures	Full	The list of other measures for which this document is relevant
Measure	Care Settings	Partial	The care settings to which the measure applies
Measure	Contact	None	The measure contact
Measure	Change Comments	Full	The comments or information entered when a measure is created or updated
Measure	Change Reason	Full	The reason why the value was entered when the measure was created or updated
Measure	Change Source	Fully	The source of the value entered when a measure is created or updated
Measure	CMIT Reference Number	Full	The unique reference number assigned to this measure by CMIT
Measure	Condition	Partial	A disease, illness or injury including physiologic, mental or psychological disorder (e.g., Cardiovascular Disease, Malignant Neoplasm)
Measure	Core Measure Set	None	The set the measure belongs to, if applicable
Measure	Data Sources	Full	Type of data used within a measure specification. <ul style="list-style-type: none"> • Claims • Electronic Health Record (EHR) • Paper Medical Records • Registry
Measure	Denominator	Full	The lower part of a fraction used to calculate a rate, proportion, or ratio; associated with a given patient population that may be counted as eligible to meet a measure's inclusion requirements

Entity	Column Name	Population Status	Column Description
Measure	Denominator Exclusions	Full	Specifications of those characteristics that would cause groups of individuals to be removed from the denominator of a measure although they experience the denominator index event; for instance, the denominator index event may specify a discharge diagnosis, but patients with certain co-morbidities may be excluded
Measure	Description	Full	Summary of measure specifications, such as medical conditions to be measured, particular outcomes or results that could or should result from the care specified in the measure for these patient populations
Measure	Development Stage	None	The stage of measure development
Measure	eMeasure Specification Available	None	Indicates if the data elements for the measure will be readily captured and reported by EHR systems
Measure	Evidence	None	Evidence to support the measure focus, including specification of what is being measured, relationships between structures and/or processes and health outcomes, systematic reviews of the evidence, and other sources of evidence
Measure	Last Updated in CMIT	Full	The last recorded date and time the measure was updated in CMIT
Measure	Last Updated By	Full	The name of the user who most recently updated the measure
Measure Environmental Scan	Links	Partial	Links to the citation source
Measure	Measure Developer	Full	Refers to the organization, contractor, or partnering agencies responsible for conceptualizing, developing, and testing a measure in preparation for consideration for a CMS program
Measure	Measure Group	Full	Program- specific measure identification code or label used by programs to group common measures together; often reported on as a group, e.g., IMM-2, Diabetic Retinopathy Measures Group

Entity	Column Name	Population Status	Column Description
Measure	Measure Group Label	Full	The measure set and measure set identifier associated with this measure (e.g., PC: 05)
Measure Program	MAP Decision	None	The final recommendation of the MAP workgroup (support, do not support, conditionally support)
Measure Program	MAP Year	None	The year the measure was submitted to the Measure Applications Partnership (MAP) evaluation process
Measure	Measure Title	Full	Name of the measure as listed within the Federal Register or measure specification documents

Entity	Column Name	Population Status	Column Description
Measure	Measure Type	Full	<p>Refers to the domain of quality that a measure assesses</p> <p>Composite: A measure that contains two or more individual measures, resulting in a single measure and a single score. Composite measures may be composed of one or more process measures and/or one or more outcome measures.</p> <p>Cost/Resource: Broadly applicable and comparable measures of health service counts. A resource measure counts the frequency of defined health system resources; some may further apply a dollar amount to each unit of resource.</p> <p>Efficiency: Refers to a measure concerning the cost of care associated with a specified level of health outcome.</p> <p>Outcome: A measure that assesses the results of healthcare that are experienced by patients: clinical events, recovery and health status, experiences in the health system, and efficiency/cost.</p> <p>Patient Reported Outcome: A measure that focuses on a patient's report concerning observations of and participation in health care.</p> <p>Process: A measure that focuses on steps that should be followed to provide good care. There should be a scientific basis for believing that the process, when executed well, will increase the probability of achieving a desired outcome.</p> <p>Structural: A structural measure is one that assesses features of a healthcare organization or clinician relevant to its capacity to provide healthcare.</p>
Measure Program	MUC ID	None	The identifier given to the measure under consideration (MUC); unique to a given MUC year.

Entity	Column Name	Population Status	Column Description
Measure	NQF Endorsement Status	Full	Status provided by the National Quality Forum (NQF), includes: <ul style="list-style-type: none"> • Endorsed • Endorsement Removed • Endorsed-Time Limited • Endorsed-Reserved • Not Endorsed • De-endorsed
Measure	NQF ID	Full	Identification number assigned by the National Quality Forum
Measure	NQF Last Update Date	Full	The date of the last update to the measure's National Quality Forum endorsement
Measure	Numerator	Full	The subset of patients in the denominator for whom a particular service has been provided or for whom a particular outcome has been achieved
Measure	Primary Healthcare Priority	Full	The primary healthcare priority which this measure supports: <ul style="list-style-type: none"> • Communication and Care Coordination • Ensuring that each person and family is engaged as partners in their care • Experience of Care • Making care safer by reducing harm caused in the delivery of care • Making quality care more affordable • Patient Safety • Promoting effective communication and coordination of care • Promoting the most effective prevention and treatment practices for the leading causes of mortality • Working with communities to promote wide use of best practices to enable healthy living
Measure Program	Program	Full	The CMS Program which uses this measure as designated by legislation, rule, or policy.

Entity	Column Name	Population Status	Column Description
Measure Environmental Scan	Publication Date	Full	The publication date of the document
Measure Program	Purposes	None	The purposes of the measure within the specified program
Measure Program	Quality Domain	Full	The program specific quality domain text as derived from the CMS quality domains specified in the CMS quality strategy
Measure	Rationale	None	Succinct statement of the need for the measure; usually includes statements pertaining to Importance criterion: impact, gap in care, and evidence
Result	Relevance	Full	When performing keyword searches, a measure of the strength of the association between the result and the keywords; higher numbers indicate that the result is more relevant to the keyword search.
Measure Environmental Scan	Relevance	Full	The degree to which the document matches the measure concepts which appear in the measure specification
Measure Environmental Scan	Relevant Measure Concepts	Partial	A list of specific concepts from the document which are relevant to the measure; categorized by type – measure focus, opportunity for improvement, and target population
Measure	Reporting Level	None	The reporting level of the measure
Measure	Secondary Healthcare Priority	None	The secondary healthcare priority which this measure supports, if applicable
Measure Environmental Scan	Source	Full	The source of the document
Measure Environmental Scan	Source Document Title	Full	The title of the document
Measure Program	Status	Full	The status of the measure in the program as specified by the Federal Rules or by policy.

Entity	Column Name	Population Status	Column Description
			<p>Planned: A measure that is currently under development and is being planned for use in a CMS program or initiative</p> <p>Considered: A measure that has been submitted to the pre-rulemaking process and has been accepted for consideration by a CMS program, has been cleared through the HHS clearance process, and published on an annual Measures under Consideration (MUC) List.</p> <p>Proposed: A measure proposed for use within a CMS program via a Federal Rule.</p> <p>Rescinded: The proposal to incorporate a measure into a program has been rescinded via Federal Rule. The measure will not be finalized or implemented.</p> <p>Finalized: The proposal to incorporate a measure into a CMS program has been finalized per Federal Rule. The measure will be implemented within a designated timeframe.</p> <p>Implemented: A measure which is both finalized and currently used within a CMS program to impact incentive or reimbursement payments.</p> <p>Suspended: A finalized measure, which has been suspended from current use within a program. The measure is no longer implemented.</p> <p>Removed: The measure has been removed from a CMS program via Federal Rule. The measure is no longer implemented.</p>
Measure	Steward	None	The steward of the measure
Measure	Subconditions	None	A specific disease, illness or injury including physiologic, mental or psychological disorder (e.g., heart failure, breast cancer); subconditions also include disease, illness or injury impacting a condition population (e.g., hepatitis A within patients who have hepatitis C)
Measure	Target Population Age	Full	Specific age range the measure targets expressed as text (e.g., 65–85)

Entity	Column Name	Population Status	Column Description
Measure	Target Population Age High	Full	The high-end of the target age range, in years
Measure	Target Population Age Low	Full	The low-end of the target age range, in years
Measure Environmental Scan	User Reviews	Full	Ratings of the relevance of the document to the measure supplied by users; categorized by type – measure focus, opportunity for improvement, and target population

Appendix B: Abbreviations

Acronym	Definition
AMI	Acute Myocardial Infarction
ASC	Ambulatory Surgery Center
CMIT	CMS Measures Inventory Tool
CMS	Centers for Medicare and Medicaid Services
CSV	Comma Separated Values
EHR	Electronic Health Records
HIT	Health Information Technology
ID	Identification
NQF	National Quality Forum
NQS	National Quality Strategy
PDF	Portable Document Format
SCIP	Surgical Care Improvement Project

Appendix C: Record of Changes

Version Number	Date	Author/Owner	Description of Change
1.0	12/9/2015	Anwuri, M.	Initial draft
1.1	12/11/2015	Davis, M.	General revisions
1.3	1/29/2016	Davis, M.	Added graphics, updates, and general edits
1.4	5/9/2016	Davis, M.	Revised graphics, general edits
1.5	8/31/2016	Davis, M.	Revised version, revised graphics
1.5.2	10/28/2016	Davis, M.	Added content for two-factor authentication
1.5.3	2/10/2017	Davis, M.	Updated for version 1.5.3. Updated some screen shots. Revised content for search to include term modifiers and remove Boolean operators. Revised list of columns in Appendix C.
1.6.4	06/30/2017	Turner, J.	Updated for version 1.6.4. Updated screen shots. Added initial content about the Environmental Scan to be completed at a later date.
1.6.5	12/1/2017	Davis, M.	Updated for version 1.6.5. Updated screen shots. Added distinction between public and controlled access sites. Completed Environmental Scan content.