

### Introduction

The Filter Builder is a function that is currently present within the Whiteboard, Quality Measures, Patient Portal and Meaningful Use Stage 2 Statistics. Filters are used to filter information in or out of an application to get the results needed. This document will explain how to add an exiting filter to the Filter Preferences Screen, how to create a new filter, and how to edit an existing filter.

### Filter Builder

## Adding an Exisiting Filter

Once a custom filter is created, it will be added to the filter lookup screen and will be available for a user, group/role or facility to use. Edits may be made to an existing filter if it is one the user has already created. Users in the System Administrator role will be able to create and make changes to a global filter.

To begin creating a filter, on the Filter Preferences Screen, select **Add** from the action bar.

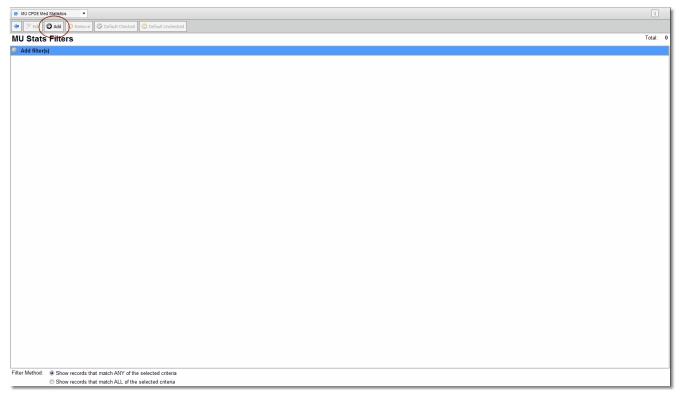
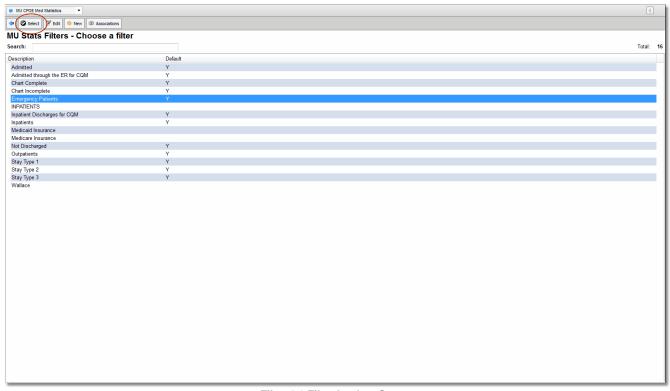


Figure 1.1 Filter Preferences Screen

To choose an existing filter, select the name of the filter from the filter lookup screen so it is

Select

highlighted in blue and **Select** from the action bar. If more filters are needed, keep repeating this process. A search option is available at the top of the screen if needed.



Filter 1.2 Filter Lookup Screen

As filters are added, they will display on the Filters screen. When the Default Value is a minus sign, the checkbox for the filter will default to unchecked. When the Default Value is a green check sign, the checkbox for the filter will default to checked. To remove a filter, select the red X next to the name of the filter. To exit the Filters screen, select the



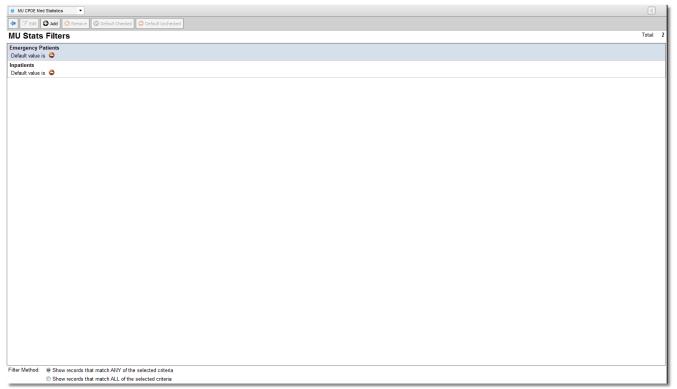


Figure 1.3 Filter Preferences

Once a filter is defined and/or added it will be available for use.

**NOTE:** Adjustments to the filters may be made at any time.

# **New Filter**

To create a new filter, select Add from the action bar.



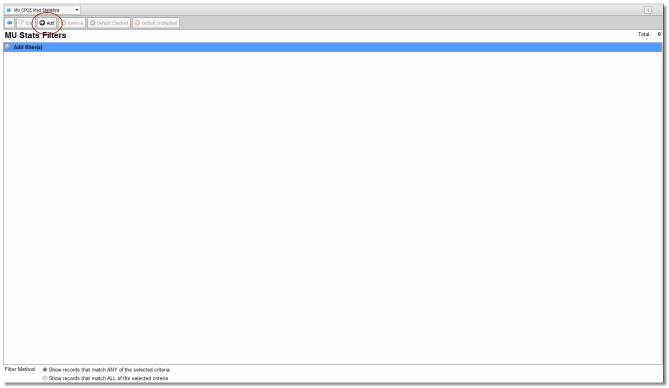


Figure 1.4 Filter Preferences Screen

Select New from the action bar of the filter lookup screen.



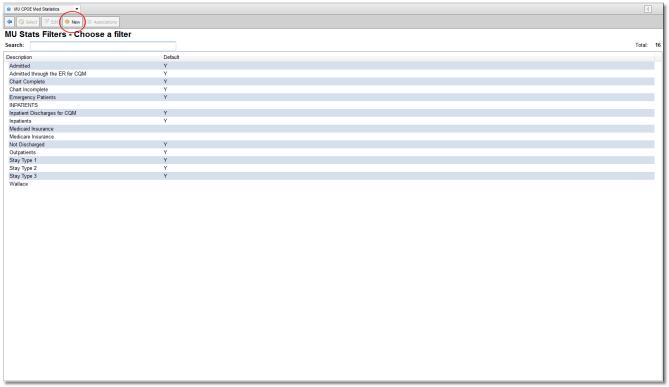


Figure 1.5 Filter Selection Screen

The new filter will need to be named. To do this select **(Filter Title)** in the upper left hand corner of the screen.



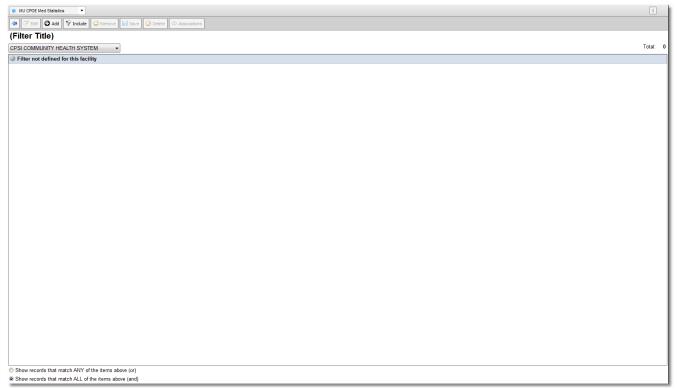


Figure 1.6 Filter Setup

Type the name of the filter in the box provided, and select



**OK** from the action bar.





Figure 1.7 Filter Setup

Then select the level the filter will be used.

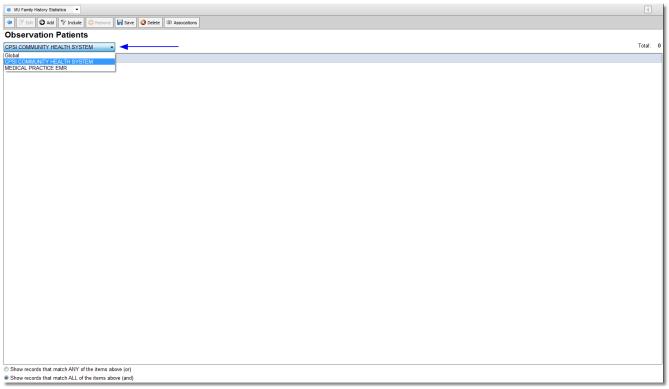


Figure 1.8 Filter Setup



Below is an explanation of each level:

- Facility: This is a facility-specific defined filter.
- Global: The global definition will be used if no facility-specific definition exists.
- CPSI Default: This only exists for filters set up by CPSI. This level is not able to be modified and will be used if no facility-specific or global definition exists.

Select Add from the action bar to define the filter for the facility.

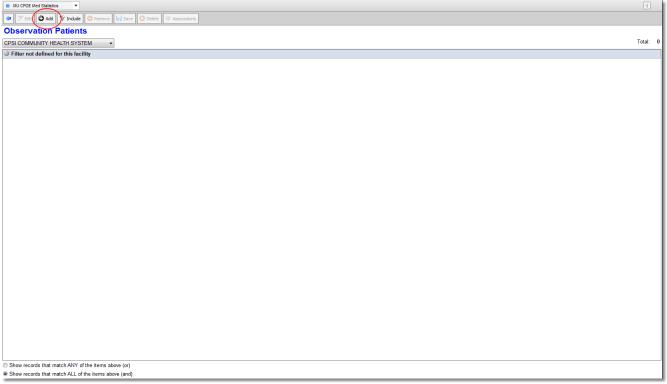


Figure 1.9 Filter Setup

A list of fields to filter will then display. A search option is available at the top of the screen if needed.

Select the field to be filtered so that it is highlighted in blue, and select **OK** from the action bar.

**NOTE:** When using the search option, whatever is typed will search the entire description of the field.



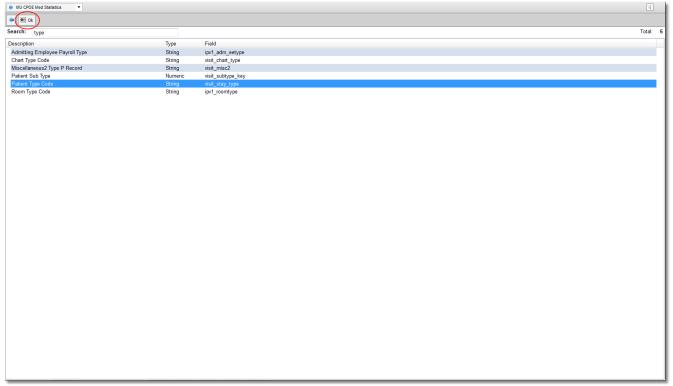


Figure 1.10 Filter Setup

The values for the filter will need to be set up. Double-click **<Not Configured>** for each of the value statements that are applicable. Not every statement needs to have a value but at least one will.



Figure 1.11 Filter Setup

The top of the screen will display which value statement was selected. At the bottom of the screen, enter in the value(s) to be configured, and select the Enter key to add it to the screen. To remove a value that has already been added, select the

the screen, select Clear from the action bar. After all values have been added, select the

back arrow from the action bar.

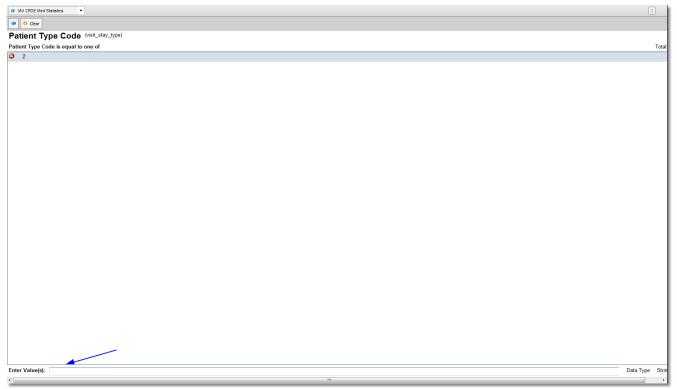


Figure 1.12 Filter Setup

The configured values will display for each value statement, if any were entered. Select the back arrow at the bottom of the screen to return to the filter setup once all values have been configured.





Figure 1.13 Filter Setup

To include this filter along with another existing filter, select

₹ Include

**Include** from the action bar.

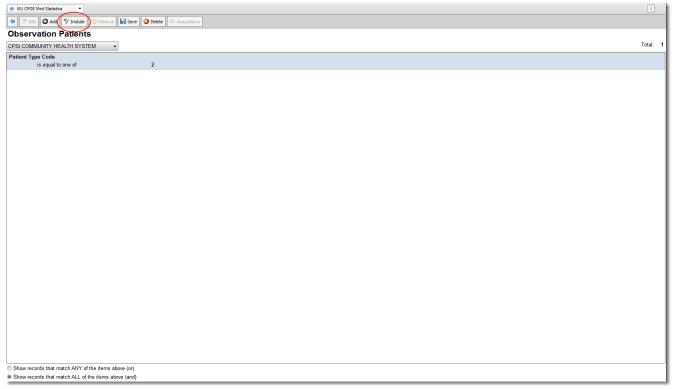


Figure 1.14 Filter Setup

The filter lookup screen will then display. The title of the current filter will display at the top of the screen and "include another filter" will be after it. Select one of the filter titles so it is highlighted in

blue, and select Select at the bottom of the screen.

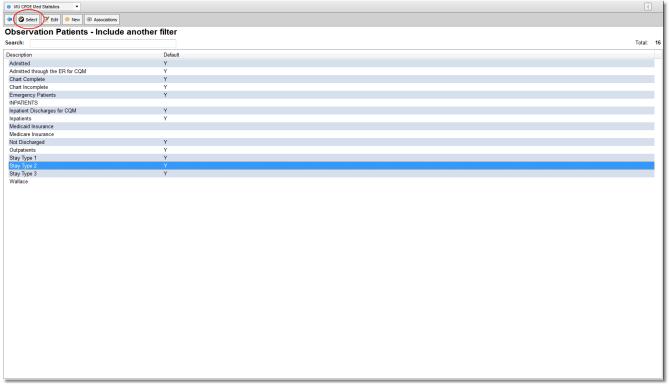


Figure 1.15 Filter Setup

If all information for the filter has been added and configured, select

Save from the action

bar to save all the information for the filter. To delete the filter select

Delete from the action

bar. Select the back arrow to return to the filter lookup screen.



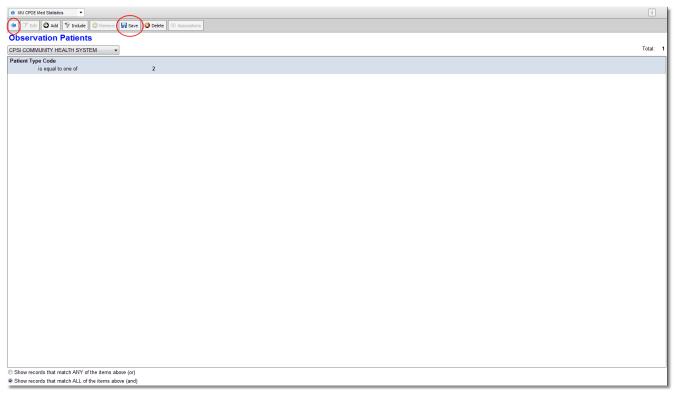


Figure 1.16 Filter Setup

The new filter will then be displayed in the filter lookup screen.

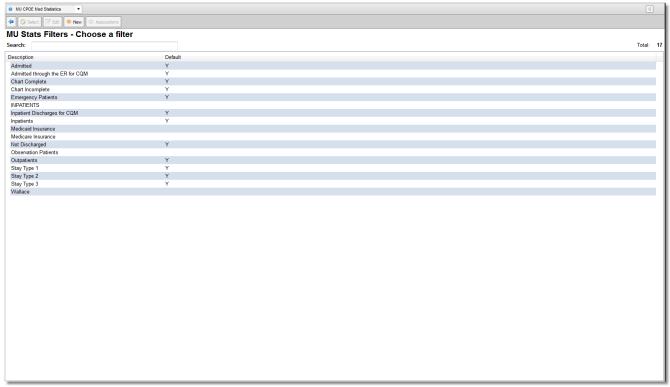


Figure 1.17 Filter Setup



#### Relative Date Values

Filters may be set up using a relative date value. This will allow filters to be defined by years, months, weeks, days, hours, minutes and seconds. An example of this would be setting up a filter for patients who have been discharged for 90 days or more.

When selecting the values to be added to the filter, the ones that have "Date" as the type of value, will be the ones that will have relative date value abilities.

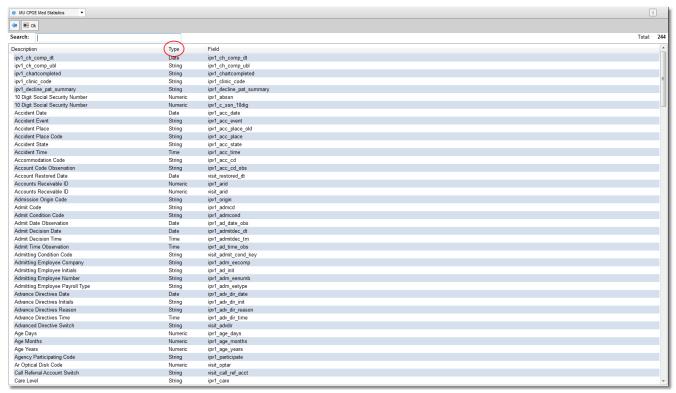


Figure 1.18 Relative Date Value Lookup

Once a value is selected, select the appropriate radio button that applies to the filter being set up and



**NOTE:** If a certain date needs to be entered, select the "Absolute Date" option.





Figure 1.19 Select Date/Timestamp Value Type

### Array Values

Filters may be set up using an array of values.

When selecting the values to be added to the filter, the ones that have "Array" as the type of value, will be the ones that will have array value abilities.



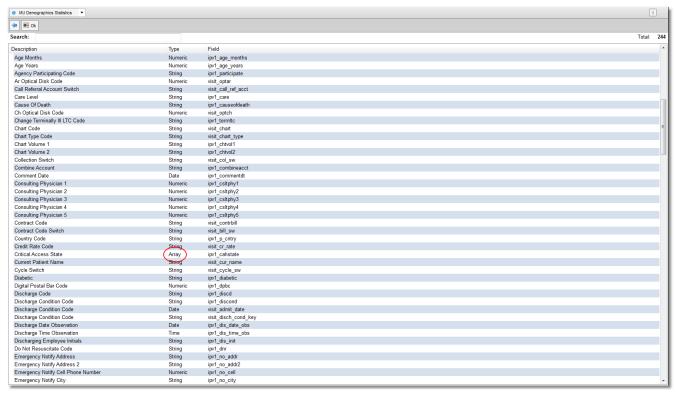


Figure 1.20 Array Values Lookup

Once a value is selected, double-click **<Not Configured>** to add the data elements for the array.

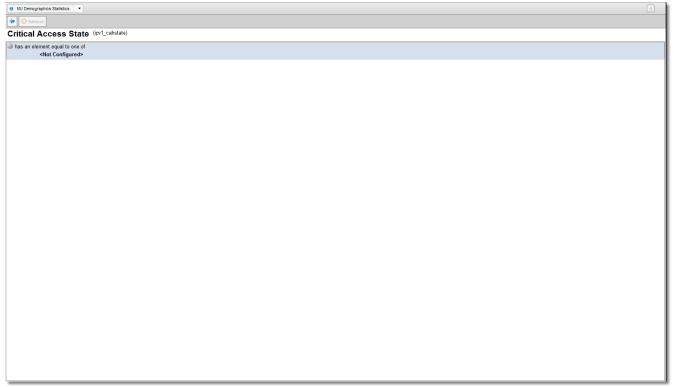


Figure 1.21 Array Values Setup



# **Edit Filter**

Edits can be made to existing filters if the need arises. Users can edit any of the filters they have set up for themselves and for their group. Only a System Administrator may make changes to the facility filters.

To edit a filter from the Filter Preferences screen, select the filter and then select **Edit** from the action bar.

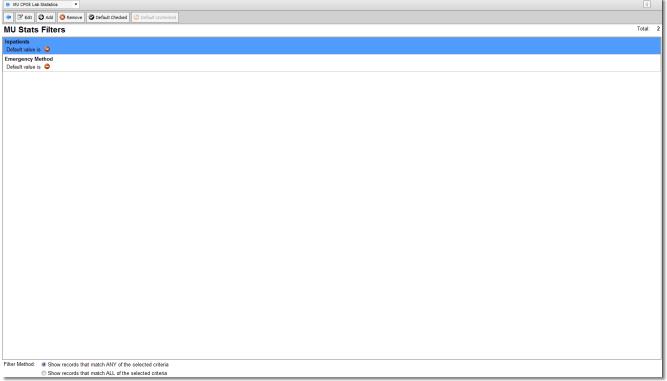


Figure 1.22 Filter Preferences Screen

Select the name of the field to be further configured and then select **Edit** from the action bar.

The Include option may also be selected if needed to include another filter along with this one.



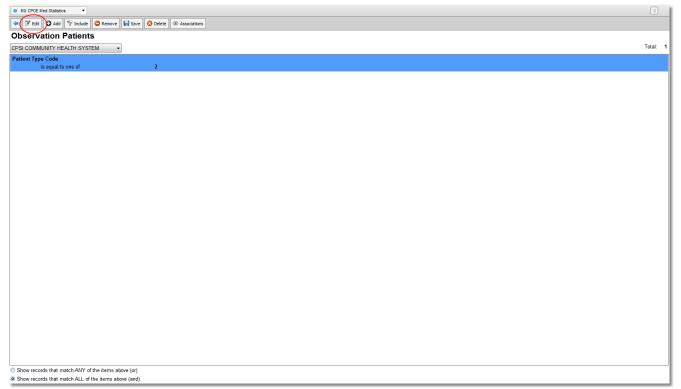


Figure 1.23 Filter Edit

To add more values to a filter, select

ObA 😯

Add from the action bar.



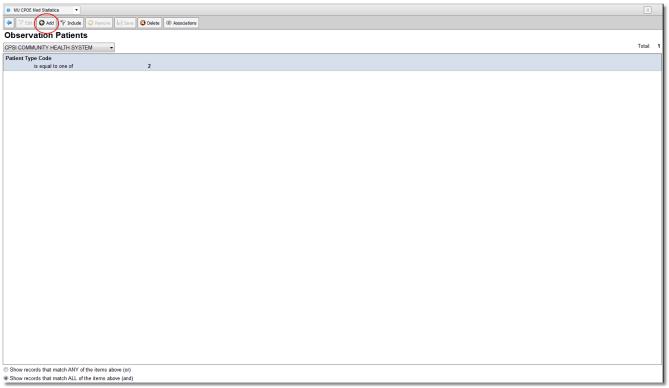


Figure 1.24 Filter Edit

If more values were added to the filter, there are two options at the bottom of the screen to further define the filter.



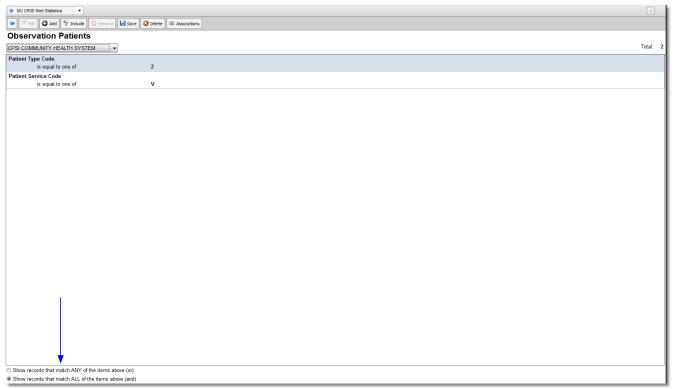


Figure 1.25 Filter Setup

- Show records that match ANY of the items above (or): If selected, any of the values on the filter may be on an account for it to generate. For example, if the filter is set up with a stay type of 2 and a service code of V, the account can have a stay type of 2 OR a service code of V to generate.
- Show records that match ALL of the items above (and): If selected, all of the values on the filter have to be on an account for it to generate. For example, if the filter is set up with a stay type of 2 and a service code of V, the account has to have a stay type of 2 AND a service code of V to generate.

**NOTE:** The Show Records option will only apply to filters that have more than one value.

Once all edits are complete, select Save from the action bar.



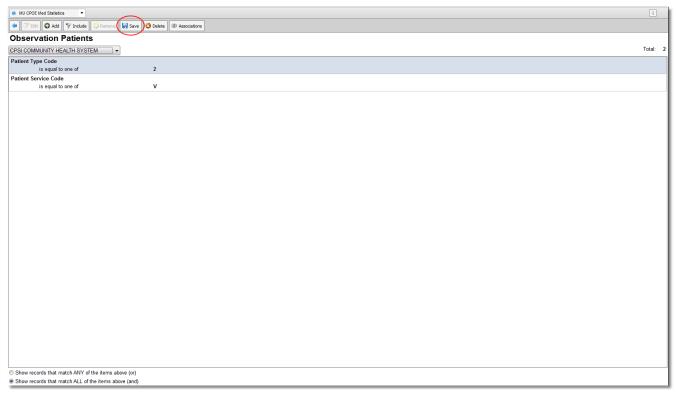


Figure 1.26 Filter Setup



### Filter Preferences Screen

The Filter Preferences Screen will display all filters that have been selected for the user login.

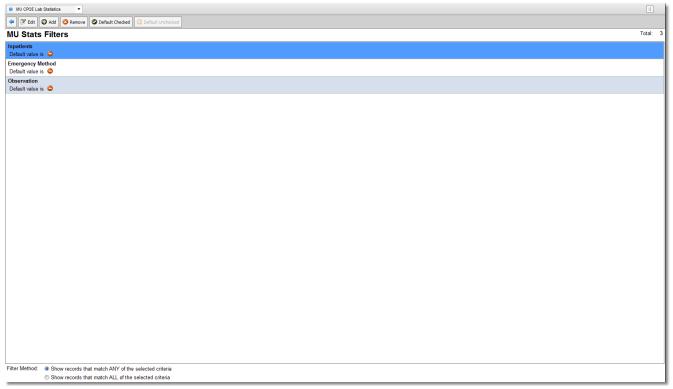


Figure 1.27 Filter Preferences Screen.

Below is an explanation of each option on the action bar:

- Edit: Select this option to make changes to the selected filter.
- Add: Select this option to add a new filter.
- Remove: Select this option to remove the selected filter.
- **Default Checked:** Select this option to check the selected filter. This will default the filter to checked when in an applicable filter application.
- **Default Unchecked:** Select this option to uncheck the selected filter. This will default the filter to unchecked when in an applicable filter application.

## **Associations**

The Associations option will display all the usages for a given filter. This option is available from the filter lookup screen and the individual filter's setup screen.



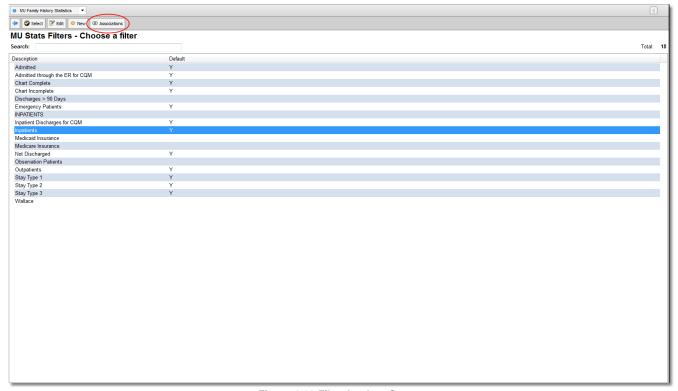


Figure 1.28 Filter Lookup Screen

Once Associations is selected, the screen will display all users who are using the filter along with the type and application where the filter is being utilized.



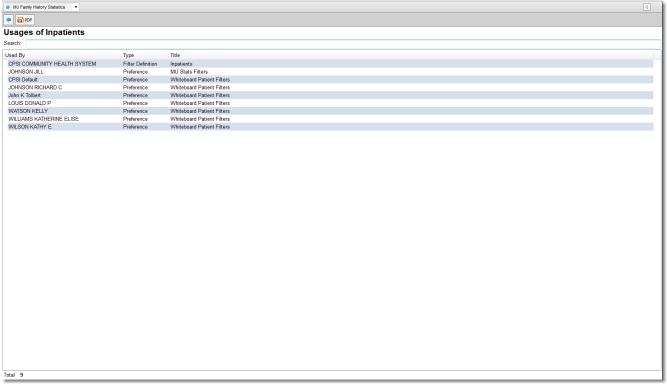


Figure 1.29 Filter Associations

The Type column will show one of three options:

- Preference: This indicates that the filter is being used by a user or facility.
- Filter Include: This indicates that the filter is being included as part of another filter's definition.
- Filter Definition: This indicates that the filter itself is defined.



Selecting

**PDF** from the action bar will produce the associations in a report format.