

FY18 Epi-Tech Surveillance Training

Sunday, October 01, 2017 - Sunday, September 30, 2018
DCS, APG, MD

Provided By
U.S. Army Medical Command

Activity ID	Course Director	CME Planner
2017-1636	John Ambrose	Mimi C. Eng

Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of U.S. Army Medical Command and ARMY PUBLIC HEALTH CENTER. The U.S. Army Medical Command is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation

The U.S. Army Medical Command designates this Live Activity for a maximum of 5 *AMA PRA Category 1 Credit (s)*TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Statement of Need/Gap Analysis

The purpose of this CME activity is to address the identified gap(s):

1. Surveillance techniques - Surveillance of common communicable diseases continues to be a problem among local MTFs. In fact, cases of campylobacter were not investigated in 2015 for PACOM MTFs, while 2016 cases of salmonella were not investigated. Civilian public health agencies are required to conduct investigations into all reportable medical events. However, DoD facilities often do not take initiative to conduct this investigation.
2. Disease identification - verification of disease by established case definitions have been utilized by the local health departments, Centers for Disease Control and Prevention, World Health Organization, and the Department of Defense. With the every changing list of reportable medical events and new emerging infections, case definitions change rapidly. Army epidemiologist conduct verification studies that monitor the efficiency of reporting by local public health experts and have concluded that completeness percentages for reportable medical events range as low as 35% for select diseases.
3. Outbreak reporting - Recent evidence have demonstrated that outbreak reporting and communication between public health agencies is poor. In fact, the Army failed to report six outbreaks in the DRSi between June 2016 and September 2016.

Learning Objectives

1. Based on case presentation, enhance your ability to improve case finding and surveillance practices within your local MTF.

Target Audience / Scope of Practice

Target Audience: The intended audience for this educational activity includes preventive medicine physicians, community health nurses, public health nurses, and epidemiology technicians.

Scope of Practice: This activity will improve the performance of preventive medicine personnel who conduct surveillance activities in inpatient and outpatient settings.

Disclosure of Faculty/Committee Member Relationships

It is the policy of the U.S. Army Medical Command that all CME planning committee/faculty/authors disclose relationships with commercial entities upon invitation of participation. Disclosure documents are reviewed for potential conflicts of interest and, if identified, they are resolved prior to confirmation of participation.

Faculty Members

Brown, Alfonza	- No information to disclose.
Gibson, Kelly	- No information to disclose.
Holbrook, Victoria	- No information to disclose.
Kebisek, Julianna	- No information to disclose.
Reynolds, Mark	- No information to disclose.
Reynolds, Mark	- No information to disclose.
Riegodedios, Asha	- No information to disclose.
Russell, Jamaal	Employment/Salary: Abbvie (spouse)
Walters, Cedric	- No information to disclose.

Committee Members

Ambrose, John	- No information to disclose.
Eng, Mimi	- No information to disclose.
Gibson, Kelly	- No information to disclose.
Riegodedios, Asha	- No information to disclose.

Acknowledgement of Commercial Support

There is no commercial support associated with this educational activity.

- To Register for the Monthly Disease Surveillance Trainings:
 1. Contact your Service Surveillance HUB to receive monthly updates and reminders
 2. Log-on or Request log-on ID/password: <https://tiny.army.mil/r/zB8A/CME>
 3. Register at: <https://tiny.army.mil/r/MEHsS/EpiTechFY18>

- Confirm attendance:
 - Please enter your full name/email into the DCS chat box to the right or email your Service hub
 - You will receive a confirmation email within 48 hours with your attendance record; if you do not receive this email, please contact your Service hub

ESSENCE version 5

Demo

JAMAAL RUSSELL, DRPH, MPH

AFHSB

A solid orange horizontal bar at the bottom of the slide.

Objectives

- Describe the structure and purpose of the ESSENCE-based syndromic surveillance
- Explain and demo some of the key new features of ESSENCE v5
 - MyESSENCE
 - MyAlerts
 - Query Portal
- Other new features

ESSENCE v5

ESSENCE - DoD History of Essence x ESSENCE - DoD Home x JKO LCMS - CB x JKO LCMS - CB x +

https://essencedod.outher.jhuapl.edu/dod_essence/servlet/HomePageServlet

Logout Demo User

ESSENCE - DoD Home

Bookmark Name: Bookmark Page

No Comments Available

Home Alert List Fusion Alerts myAlerts myESSENCE Event List Overview Portal Query Portal Map Portal Bookmarks Query Manager Data Quality Report Manager More

Version 1.21

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ESSENCE PROTOTYPE DISCLAIMER

NO WARRANTY

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NOT FOR PUBLIC DISCLOSURE

Questions or Problems?

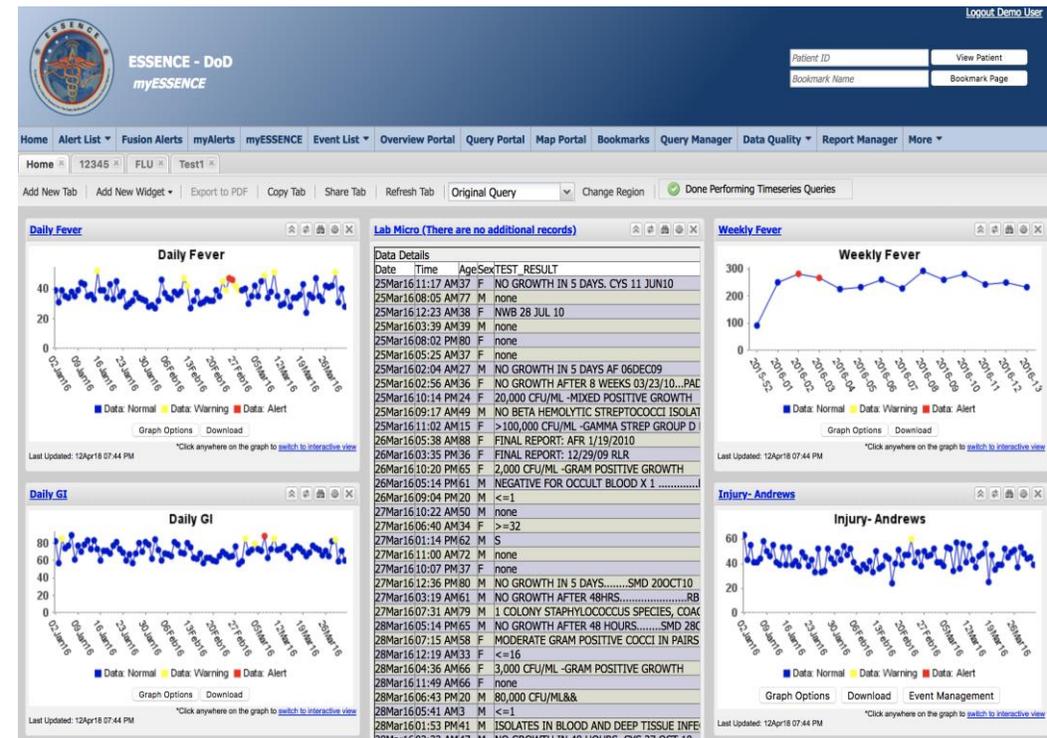
MyESSENCE

- MyESSENCE dashboard can be accessed by selecting “myESSENCE” from the menu bar.



MyESSENCE

- Once the user selected “myESSENCE” you will see a blank dashboard (for new users) or a dashboard of previously created queries that the user added.
- You have the ability to customize this space with widgets that you will use most often.
- There are several different ways to customize your dashboard.



MyESSENCE

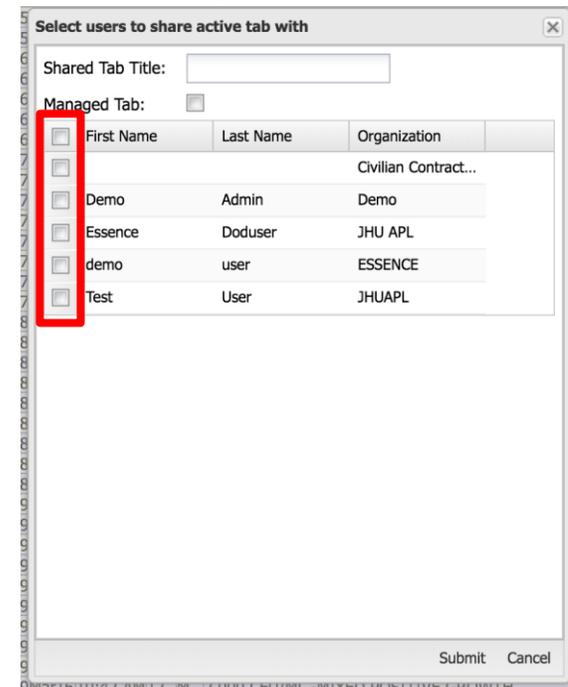
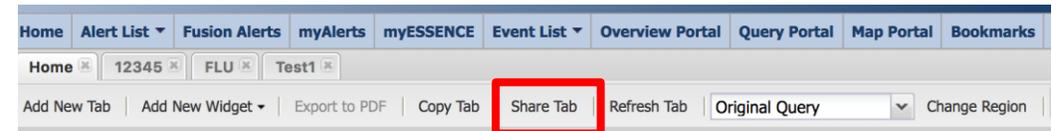
- You may wish to add a new time series graph to quickly view daily counts at your MTF.
- Click “Times Series Graph” from the dropdown menu.
- A popup box will appear.
- Check the box or boxes you wish to see on your tab.
- When you’re finished, click “Submit”.
- Your dashboard tab will update to show your selected options.

The screenshot shows the MyESSENCE dashboard interface. At the top, there are tabs for 'Home', '12345', 'FLU', 'Test1', and 'Test2'. Below the tabs, there is a menu with options: 'Add New Tab', 'Add New Widget', 'Export to PDF', 'Copy Tab', and 'Share Tab'. The 'Add New Widget' dropdown menu is open, showing options: 'Time Series Graph', 'Multiseries Time Series Graph', 'Data Details Chart', 'Data Details Data Table', and 'Table Builder Data'. The 'Time Series Graph' option is highlighted with a red box. Below the dropdown menu, a 'Widget Options' popup box is displayed. It contains a table with columns: 'Label', 'Date Created', 'Start Date', and 'End Date'. The table lists several data series, with the 'Daily Fever' row highlighted and its checkbox checked. At the bottom of the popup box, there is a 'Date:' field with a dropdown menu set to 'Show Last 90 Days', and 'Cancel' and 'Submit' buttons. The 'Submit' button is highlighted with a red box.

<input type="checkbox"/>	Label	Date Created	Start Date	End Date
<input type="checkbox"/>	Lab Chem By MTF	28Nov17	02Jan16	01Apr16
<input type="checkbox"/>	Daily Count by Command Site	28Nov17	02Jan16	01Apr16
<input type="checkbox"/>	Lab Chem by Service	28Nov17	02Jan16	01Apr16
<input type="checkbox"/>	dod fever alert	29Nov17	02Jan16	01Apr16
<input checked="" type="checkbox"/>	Daily Fever	29Nov17	02Jan16	01Apr16
<input type="checkbox"/>	Daily GI	29Nov17	02Jan16	01Apr16
<input type="checkbox"/>	Fever and Cough	29Nov17	02Jan16	01Apr16
<input type="checkbox"/>	Dog Bites	11Dec17	02Jan16	01Apr16
<input type="checkbox"/>	ILI	11Dec17	02Jan16	01Apr16

MyESSENCE

- If you would like to share your tab with others, you can select “Share Tab” from the dashboard menu.
- A popup box will appear. Enter a title for the shared tab and click which tabs you want to share. Click “Submit” when you’re finished.



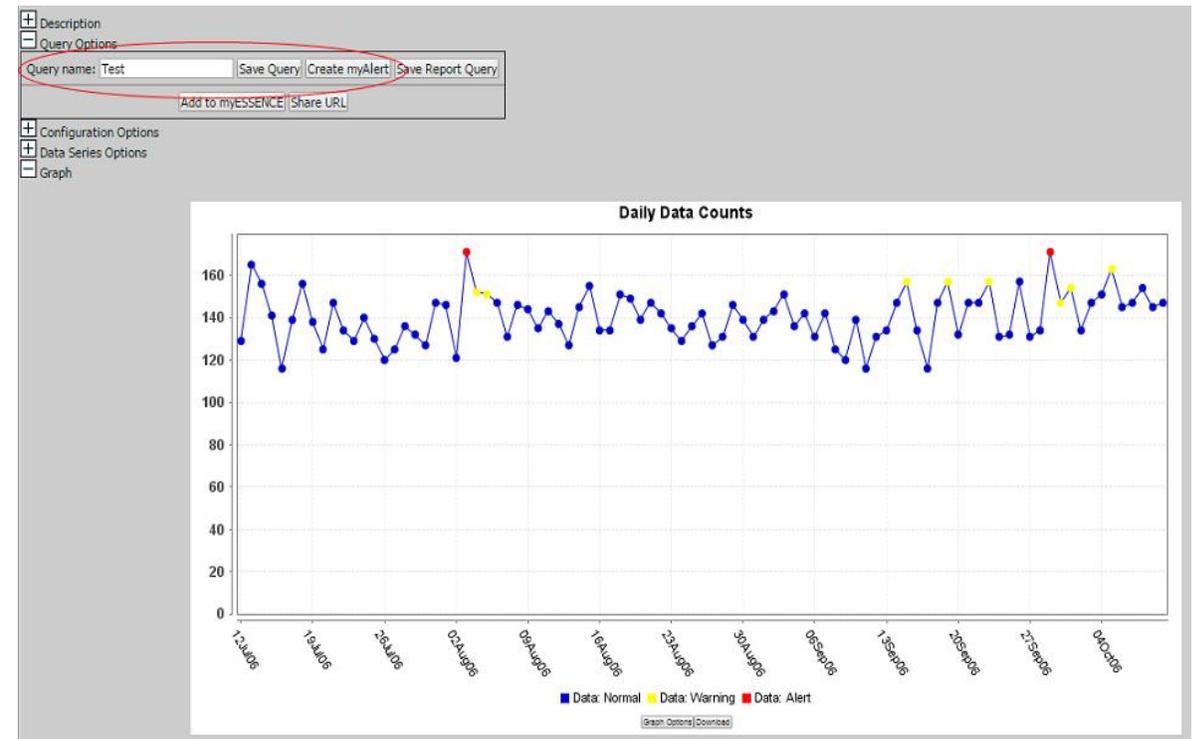
MyAlerts

- The myAlerts function can be set by a user to provide alert messages or records that meet the user's alert criteria.
- The user can set criteria for alerting that include statistical thresholds, minimum counts and consecutive days of alerting.
- MyAlerts can be created for the default syndrome and sub-syndrome categories, free text queries, as well as for any of the other data sources available in ESSENCE.



MyAlerts

- For example, a user can create a myAlert from a Time Series page, enter a name for the query in the text box labeled Query Name and then select Create MyAlert.



MyAlert

- The Create MyAlert dialog box will open with options to edit enable the MyAlert, select the details.
- You can share the myAlert with other ESSENCE users if you choose.
- MyAlerts A user can set user defined thresholds for Minimum Count, the number of alerts in the past number of days, and consecutive alerts.

Create myAlert

Name of myAlert: test

Query: test

Enabled:

myAlert being created for: Records of Interest Detection

Stratifications: Use Original
Region
Facility
Site
MedicalSubGrouping

Detector: Regression/EWMA 1.2

Threshold: 0.05

Minimum Count:

alerts in the past days

consecutive alerts

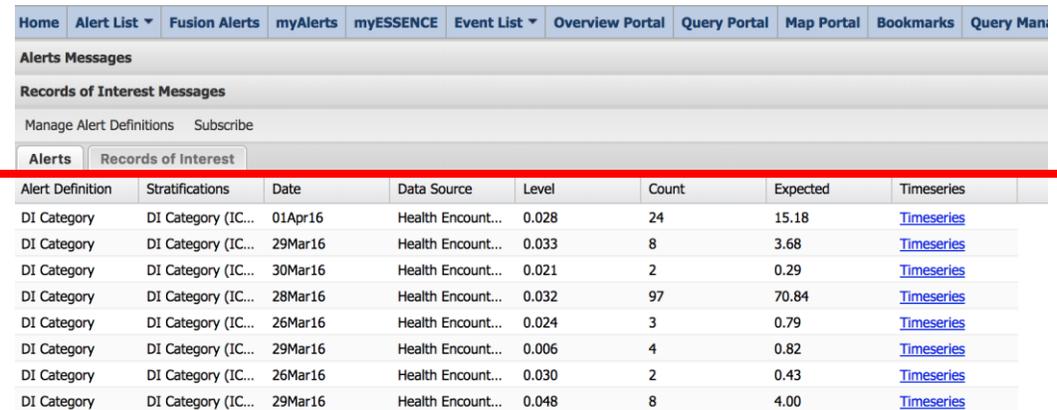
Save For:

<input type="checkbox"/>	First Name	Last Name	Organization
<input type="checkbox"/>	demo01	demo01	demo01
<input checked="" type="checkbox"/>	Essence	Training	JHUAPL
<input type="checkbox"/>	Test	User	JHUAPL

Cancel Save myAlert

MyAlert

- When you access myAlerts you will see two tabs, one with alerts and one with record of interest.
- MyAlerts for records of interest can be useful for rare events with small visit numbers. This will return any results in a line listing format.



The screenshot shows the MyAlerts web interface. At the top, there is a navigation bar with tabs: Home, Alert List, Fusion Alerts, myAlerts, myESSENCE, Event List, Overview Portal, Query Portal, Map Portal, Bookmarks, and Query Man. Below the navigation bar, there are sections for Alerts Messages and Records of Interest Messages. Under Records of Interest Messages, there are links for Manage Alert Definitions and Subscribe. The main content area has two tabs: Alerts and Records of Interest. The Records of Interest tab is active, displaying a table with the following data:

Alert Definition	Stratifications	Date	Data Source	Level	Count	Expected	Timeseries
DI Category	DI Category (IC...	01Apr16	Health Encount...	0.028	24	15.18	Timeseries
DI Category	DI Category (IC...	29Mar16	Health Encount...	0.033	8	3.68	Timeseries
DI Category	DI Category (IC...	30Mar16	Health Encount...	0.021	2	0.29	Timeseries
DI Category	DI Category (IC...	28Mar16	Health Encount...	0.032	97	70.84	Timeseries
DI Category	DI Category (IC...	26Mar16	Health Encount...	0.024	3	0.79	Timeseries
DI Category	DI Category (IC...	29Mar16	Health Encount...	0.006	4	0.82	Timeseries
DI Category	DI Category (IC...	26Mar16	Health Encount...	0.030	2	0.43	Timeseries
DI Category	DI Category (IC...	29Mar16	Health Encount...	0.048	8	4.00	Timeseries

MyAlert

- You can subscribe to alerts by clicking “Subscribe” from the myAlerts menu.
- Once subscribed to a myAlert you will receive an email whenever there is an alert.

The screenshot shows a web application interface with a navigation bar at the top containing links: Home, Alert List, Fusion Alerts, myAlerts, myESSENCE, Event List, Overview Portal, Query Portal, Map Portal, Bookmarks, and Query Man. Below the navigation bar, there are sections for 'Alerts Messages' and 'Records of Interest Messages'. A 'Subscribe' button is highlighted with a red box in the 'Records of Interest Messages' section. Below this, there is a table with columns: Alert Definition, Stratifications, Date, Data Source, Level, Count, Expected, and Timeseries. The table contains two rows of data. A dialog box titled 'Subscribe to Notifications on MyAlerts' is open in the foreground, showing options for 'Add', 'Edit', 'Delete', and 'Clear All', and a table with columns 'E-Mail' and 'MyAlert'.

Alert Definition	Stratifications	Date	Data Source	Level	Count	Expected	Timeseries
DI Category	DI Category (IC...	01Apr16	Health Encount...	0.028	24	15.18	Timeseries
DI Category	DI Category (IC...	29Mar16	Health Encount...	0.033	8	3.68	Timeseries

Query Portal

- The Query Port permits users to select specific populations to perform analysis, visualizations and export features are available within the portal.
- You can access the portal by selecting “Query Portal” from the ESSENCE menu bar.



Query Portal

- The query wizard pull-downs permit the user to select a variety of basic parameters for the query for the query, including Datasource, Time Resolution, Detector, As Percent Query, Start Date, and End Date.
- Once custom analysis features are selected, they can be sent to the myESSENCE and myAlerts for use in routine analysis and alerting.

The screenshot displays the 'Query Wizard' interface. At the top, a red box highlights the configuration section with the following settings:

- Datasource: Health Encounters
- Time Resolution: Daily
- Detector: Regression/EWMA 1.2
- As Percent Query: No Percentage Query
- Start Date: 02Jan16
- End Date: 01Apr16

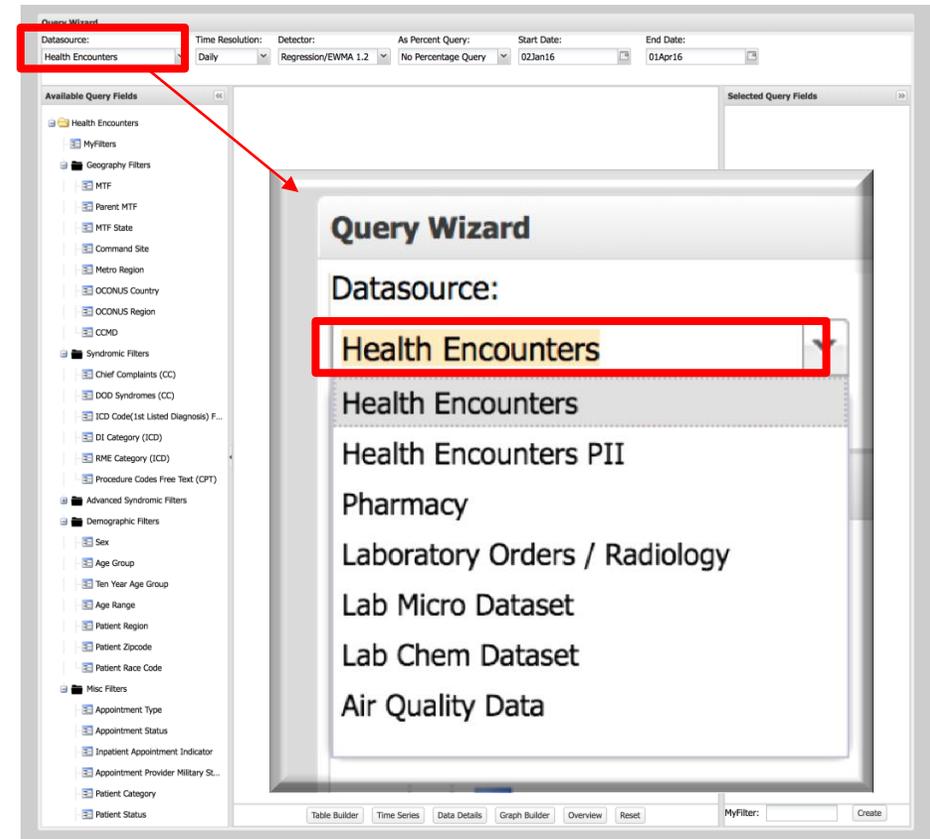
Below this section, the interface is divided into two main panels:

- Available Query Fields:** A tree view on the left containing categories such as Health Encounters, MyFilters, Geography Filters (including MTF, Parent MTF, MTF State, Command Site, Metro Region, OCONUS Country, OCONUS Region, and COMD), Syndromic Filters (including Chief Complaints (CC), DOD Syndromes (CC), ICD Code(1st Listed Diagnosis) F..., DI Category (ICD), RME Category (ICD), and Procedure Codes Free Text (CPT)), Advanced Syndromic Filters, Demographic Filters (including Sex, Age Group, Ten Year Age Group, Age Range, Patient Region, Patient Zipcode, and Patient Race Code), and Misc Filters (including Appointment Type, Appointment Status, Inpatient Appointment Indicator, Appointment Provider Military ST..., Patient Category, and Patient Status).
- Selected Query Fields:** A panel on the right that is currently empty.

At the bottom of the interface, there are navigation buttons: Table Builder, Time Series, Data Details, Graph Builder, Overview, and Reset. Additionally, there is a 'MyFilter:' input field and a 'Create' button.

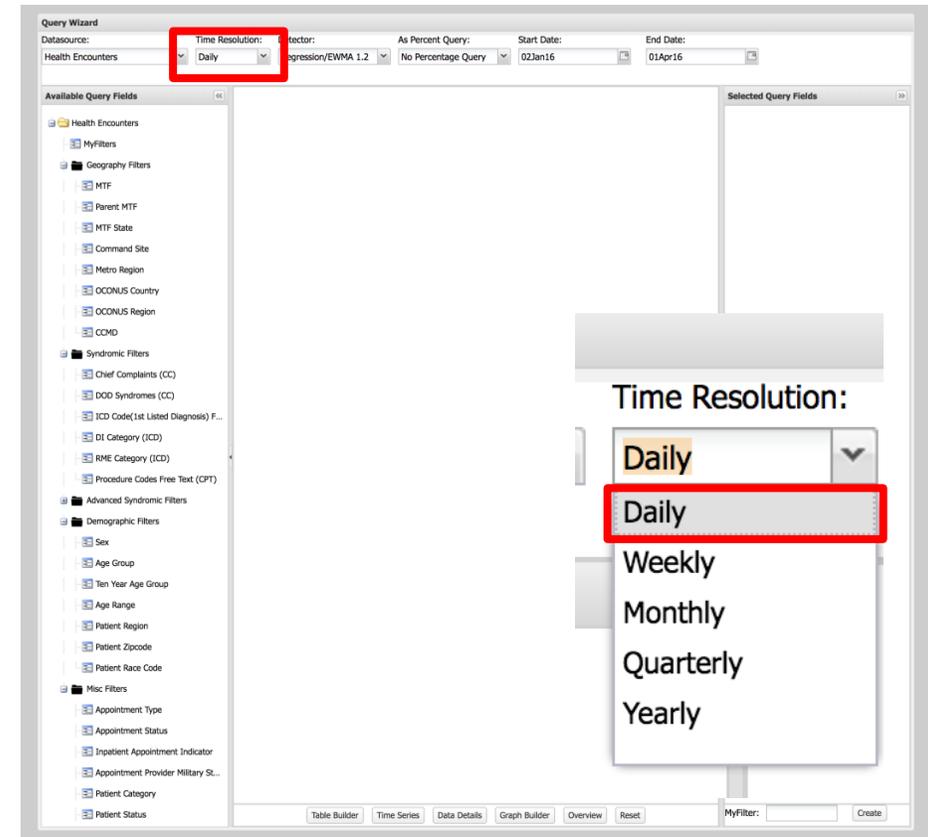
Query Portal

- Remember, ESSENCE has data from several data sources. You will need to select a data source to run your query.
- Health encounters data is the most used data set. You can select this or other options from the dropdown menu at the top right of the Query Wizard.



Query Portal

- You will also need to select a time resolution for your query.
- You can select from daily, weekly, monthly, quarterly or yearly time periods. If you're checking ESSENCE regularly, you will likely want to use daily for this option.
- You can select your time option from the dropdown menu at the top of the Query Wizard.



Query Portal

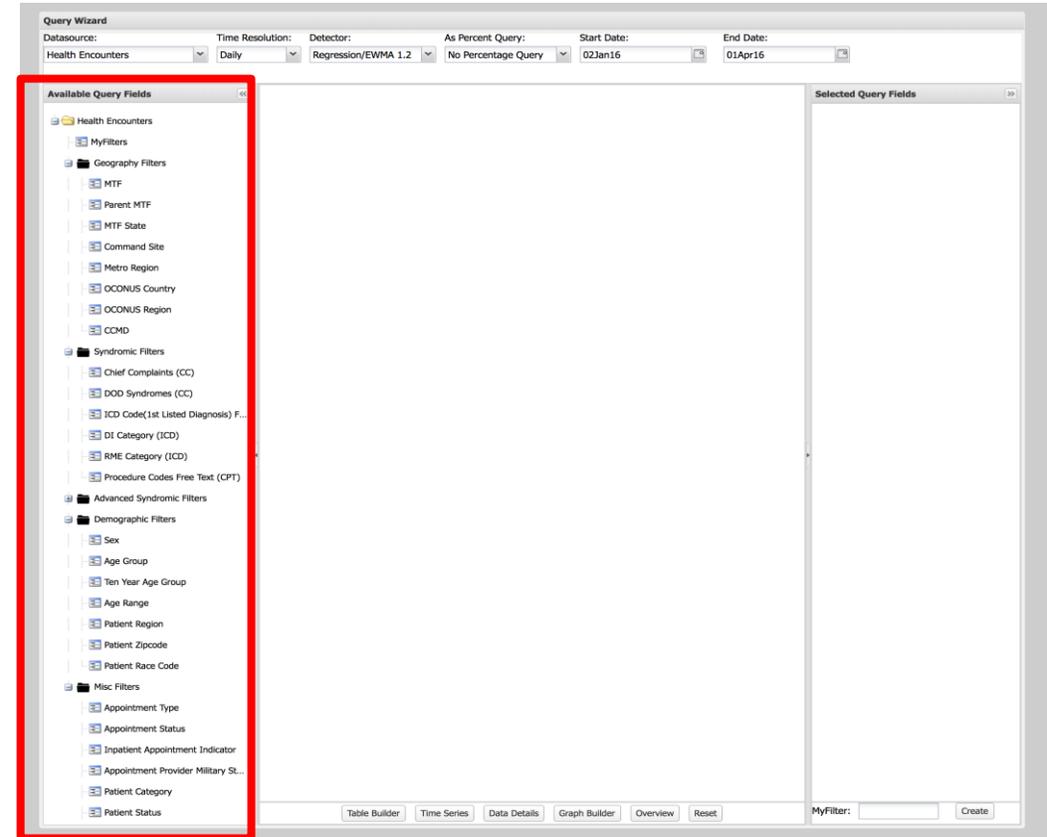
- You will also need to select a data range for your query.
- Use the calendar on the top right of the Query Wizard to select a start date and an end date for your query.

The screenshot shows the Query Wizard interface. The 'Time Resolution' dropdown is set to 'Daily'. The 'Start Date' is '02Jan16' and the 'End Date' is '01Apr16'. A calendar for February 2016 is displayed, with the 2nd highlighted. The 'Selected' column is empty.

S	M	T	W	T	F	S
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	1	2	3	4	5
6	7	8	9	10	11	12

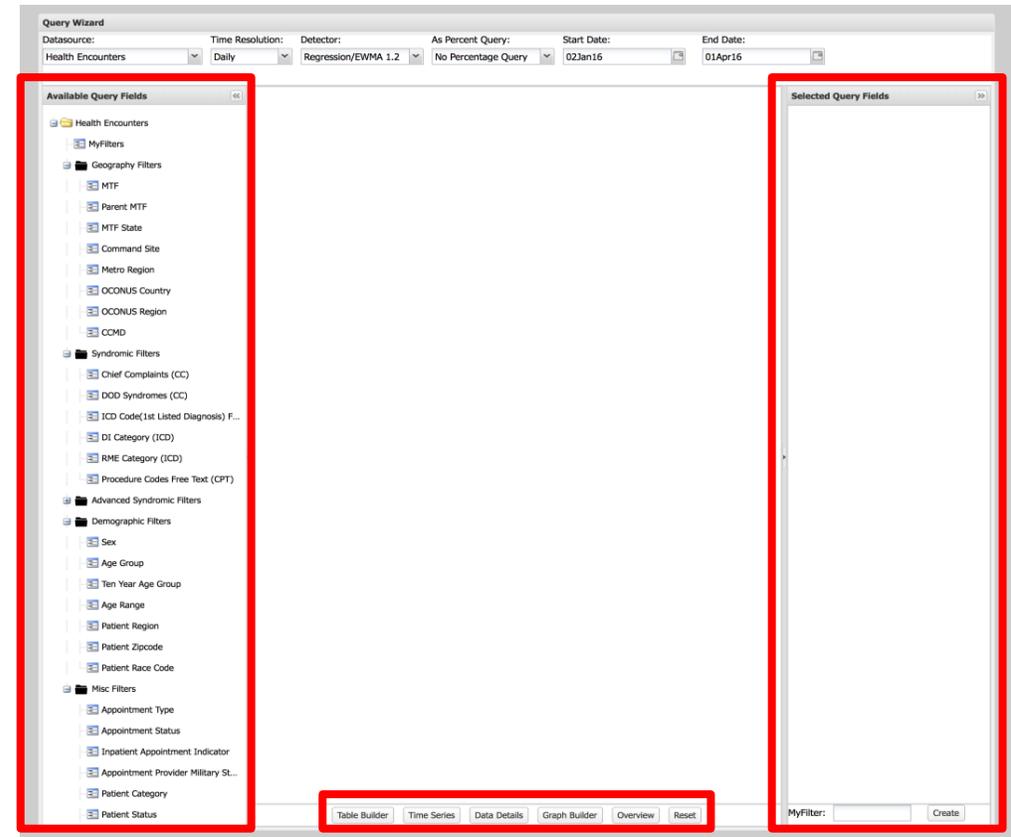
Query Portal

- From the left panel on the next set of options, the user can select from Available Query Fields. These query fields options will be dependent on the data source selected.
- For each query field selected, the field specific options are displayed in the center panel. These options can be simple combo box pull downs, number ranges selectors, date range selectors, free-text query fields, or adder-style select boxes for very large lists.



Query Portal

- The user is required to choose the desired options and once selected, they will be added to the Selected Query Fields panel on the right side to build their query.
- Once the user has selected all its components, the query can be executed. There are several options for executing and viewing outputs for that query.
- The options are a tabular format via the Table Builder, Time Series view, and Data Details view. The user can also access the Graph Builder, Overview Portal, and Advanced Query tool from this page.



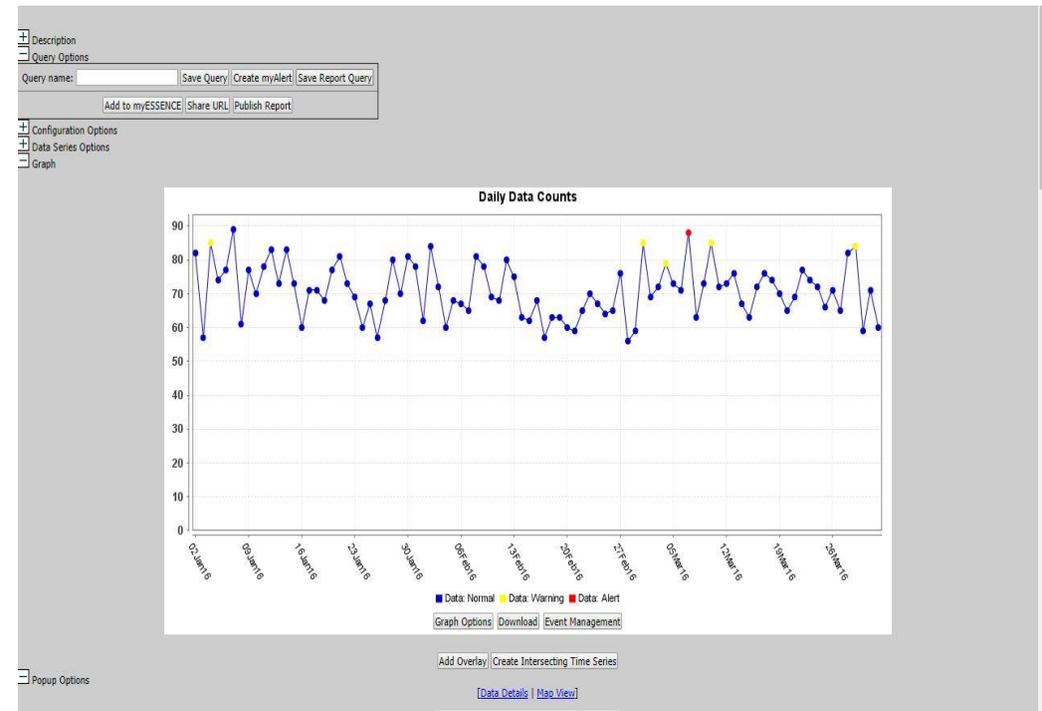
Query Portal

- All entries in the middle box will be the chosen options once the "SELECT" button is pressed.
- Your selection are shown in the right side box.
- You can remove selected query fields by clicking the red X button.
- Once your selections are finalized you can run the query by clicking one of the options below that were previously mentioned.

The screenshot displays the 'Query Wizard' interface. At the top, there are input fields for 'Datasource' (Health Encounters), 'Time Resolution' (Daily), 'Detector' (Regression/EWMA 1.2), 'As Percent Query' (No Percentage Query), 'Start Date' (02Jan16), and 'End Date' (01Apr16). Below this, the 'Available Query Fields' list on the left includes categories like 'Health Encounters', 'Geography Filters', 'Syndromic Filters', and 'ICD Categories'. The 'DOD Syndromes (CC)' category is selected, and its sub-fields (Bot_like, Exposure, Fever, GI, Hemr_ill, ILI, Injury, Neuro, Rash, RecordsOfInterest, Resp, Shk_coma) are listed in the middle box. The 'GI' field is highlighted. The 'Selected Query Fields' box on the right shows 'MTF State' (MD) and 'DOD Syndromes (CC)' (GI). Red boxes highlight the middle and right boxes. At the bottom, there are buttons for 'Table Builder', 'Time Series', 'Data Details', 'Graph Builder', 'Overview', and 'Reset'.

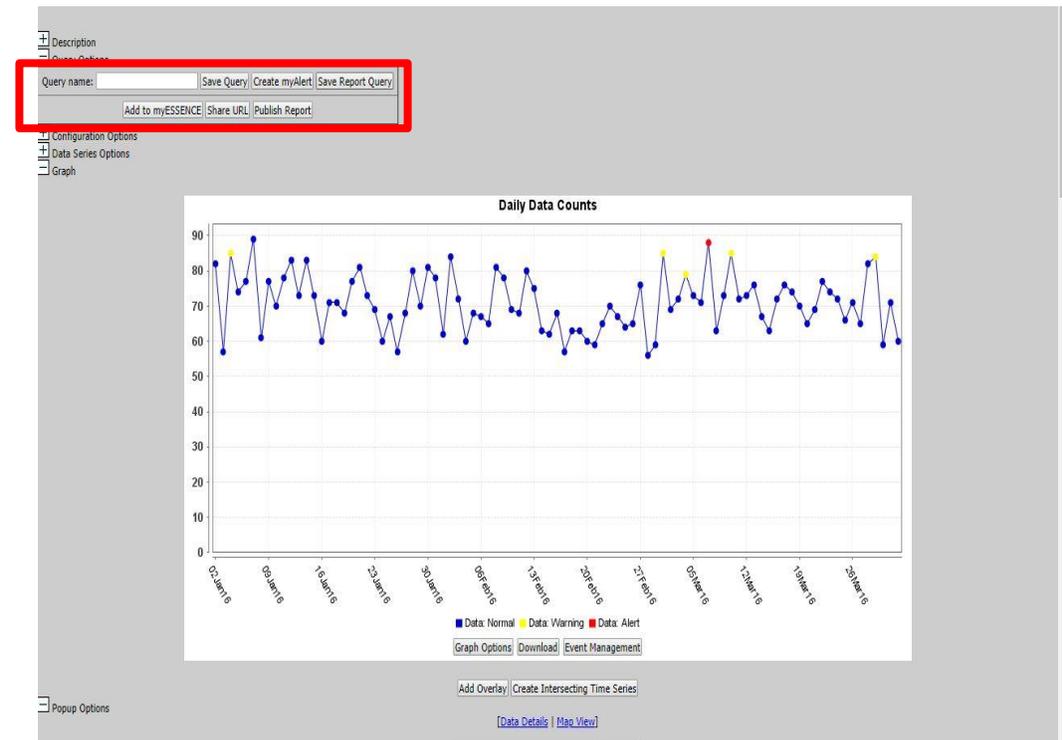
Time Series

- Note that the detection on a time series page is run dynamically with the most up-to-date data that is available. This is sometimes different than the alerts on an Alert List because those detectors are run on a schedule and so may not include the most recent data.
- If you hold the cursor over a particular date's marker on the graph, a text box will appear with specific information about that date.



Time Series

- You can add a time series to myESSENCE or myAlert under Query Options. Other options include Save Query, Save Report Query, Share URL and Publish Report.
- You must enter a name for the query then select what option you would like to use.
- For example, if you add the query to myESSENCE, you will have to select which tab to place the query in and select Add to myESSENCE. The query will now be visible in myESSENCE under the selected tab.



Data Details

- The data details option displays all line level records over the date range. Similar to the Alert List, the default sorting is by date, but the earliest date of the date range is displayed first.
- Similar to the Time Series View, this page has the Description box, Query Options, and Configuration Options.
- Also, Graph options are provided from which the user can select to visualize pie charts or bar charts. The set of field options available for building pie or bar charts are provided as drop-downs.

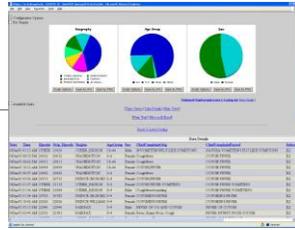
The screenshot shows a web interface for data visualization. At the top, there are sections for 'Query Options', 'Configuration Options', and 'Graphs'. The 'Graphs' section contains two dropdown menus for 'Select Pie Chart(s):' and 'Select Bar Chart(s):', both currently set to 'MTF Parent MTF'. Below these are 'Add Pie Chart' and 'Add Bar Chart' buttons. A 'Time of Day Graph' section has a 'Time Interval' dropdown set to '20' and a 'Popup Time of Day Graphs' button. An 'Available Units' section contains several links: 'Download .zip file containing all graphs on this page', 'Download all selected graph data tables as a MS Excel file', 'View Charts', 'Previous Bar / Next Day', 'Time Series / Day View', and 'View Top / Download Excel'. Below this is a 'Data Details Table Configuration' section.

Date	Treatment_DMIS_ID	Time	Appointment_Date	Appointment_CAPER_Extract_Date	Family_Member_Prefix	FPD	Age	Sex	Patient_Categories	Patient_Race	Ethnic_Background	Service	Military_Grade_Rank	Re
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			20	49	Male	Air Force Active Duty	Other	none	Not Provided	none
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			20	55	Female	Army Dependents Of Retired (Living)	Negroid (Black)	none	Not Provided	none
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			30	24	Male	Air Force Active Duty	Negroid (Black)	Other	Not Provided	none
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			30	68	Male	Navy Dependents Of Active Duty (Exclude Former Spouse)	Caucasoid (White)	Unknown	Not Provided	none
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			30	85	Male	F312	Other	Other	Not Provided	none
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			20	28	Male	A311	Other	Other	Not Provided	none
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			30	29	Male	Air Force Active Duty	none	Filipino	Not Provided	none
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			20	64	Female	Air Force Dependents Of Active Duty (Exclude Former Spouse)	Negroid (Black)	Other	Not Provided	none
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			20	65	Male	Air Force Active Duty	Other	Other	Not Provided	none
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			30	32	Male	Air Force Dependents Of Active Duty (Exclude Former Spouse)	Negroid (Black)	none	Not Provided	none
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			20	23	Female	Navy Active Duty	none	Other	Not Provided	none
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			20	39	Male	Air Force Active Duty	Caucasoid (White)	Other	Not Provided	none
29Mar16	*PHO - X020T (MF) ANDREWS NAVAL AIR FAC - 779th MEDICAL GROUP (0066 - 0066)	none	20160329	Nov 29 2017 7:48AM			20	49	Female	NO44 Active Duty	Caucasoid (White)	Other	Not Provided	none

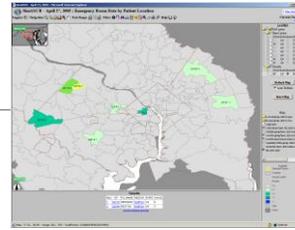
ESSENCE v5: Other New Features



Interactive Time Series & Anomaly Detection



Pie/Bar Charts & Detailed Line Listings



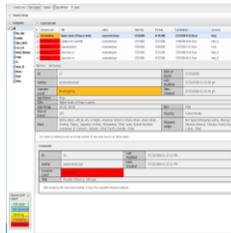
Interactive Mapping & Spatial Cluster Detection



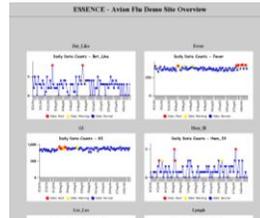
Table Builder: Crosstab & Pivots



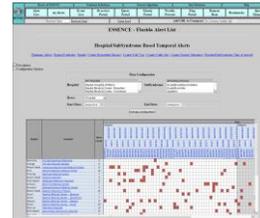
Free-text & Advanced Querying



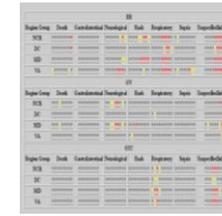
Event Communication



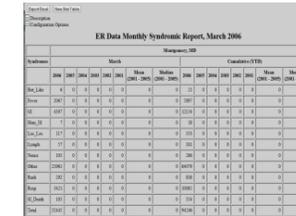
Overview Graphs



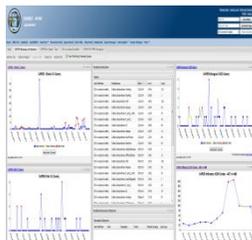
Time of Arrival Detection



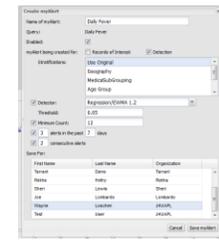
Temporal Detection



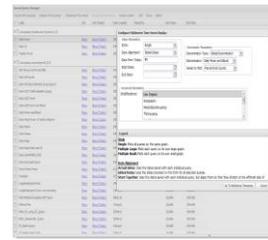
Statistical Report Builder



User customized myESSENCE Dashboards (e.g., plots, tables, maps)



User customized myAlerts



Multi-Datasource & Denominator Queries



Data Quality Reports



External Report Publishing

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Questions

