



**NAVY AND MARINE CORPS PUBLIC HEALTH CENTER**  
PREVENTION AND PROTECTION START HERE

# Creating a User Defined Pneumonia-Specific Syndrome in ESSENCE

Preventive Medicine Directorate  
September 2016

# Pneumonia-Specific Syndrome

- NMCPHC retrospective analyses suggest that surveillance using a pneumonia-specific syndrome can identify severe respiratory illness that may be associated with influenza.
- This targeted surveillance may be especially useful during influenza season, when clusters of severe illness can be lost in the background amidst high numbers of influenza-like illness encounters.
- Conducting routine surveillance with a user defined pneumonia-specific syndrome may be useful to maintain awareness of severe respiratory illness within your area of responsibility.

# **PNEUMONIA-SPECIFIC ICD-9 AND ICD-10 CODES**

# Pneumonia-Specific Codes

## ICD-9 Codes

480*	Viral pneumonia
481*	Pneumococcal pneumonia
482*	Other bacterial pneumonia
483*	Pneumonia due to other specified organism
484*	Pneumonia in infectious diseases classified elsewhere
485*	Bronchopneumonia, organism unspecified
486	Pneumonia, organism unspecified
487.0	Influenza with pneumonia
488.01	Influenza due to identified avian influenza virus with pneumonia
488.11	Influenza due to identified 2009 H1N1 influenza virus with pneumonia
488.81	Influenza due to identified novel influenza A virus with pneumonia

[Click here for a complete list of ICD-9 pneumonia-specific codes.](#)

# Pneumonia-Specific Codes

## ICD-10 Codes

J09.X1	Influenza due to identified novel influenza A virus with pneumonia
J10.0*	Influenza due to other identified influenza virus with pneumonia
J11.0*	Influenza due to unidentified influenza virus with pneumonia
J12*	Viral pneumonia, not elsewhere classified
J13	Pneumonia due to <i>Streptococcus pneumoniae</i>
J14	Pneumonia due to <i>Haemophilus influenzae</i>
J15*	Bacterial pneumonia, not elsewhere classified
J16*	Pneumonia due to other infectious organisms, not elsewhere classified
J17	Pneumonia in diseases classified elsewhere
J18*	Pneumonia, unspecified organism

[Click here for a complete list of ICD-10 pneumonia-specific codes.](#)

# **CREATING A USER-DEFINED PNEUMONIA SYNDROME**

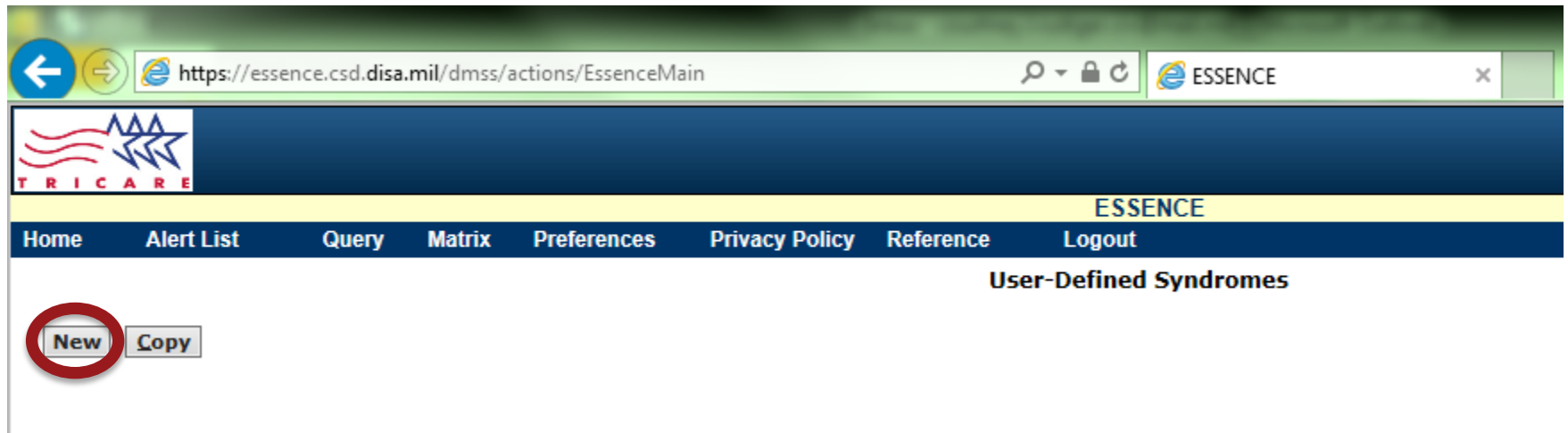
# Creating a User Defined Pneumonia Syndrome

- Navigate to “User-Defined Syndromes” in the menu bar under “Preferences”.



# Creating a User Defined Pneumonia Syndrome

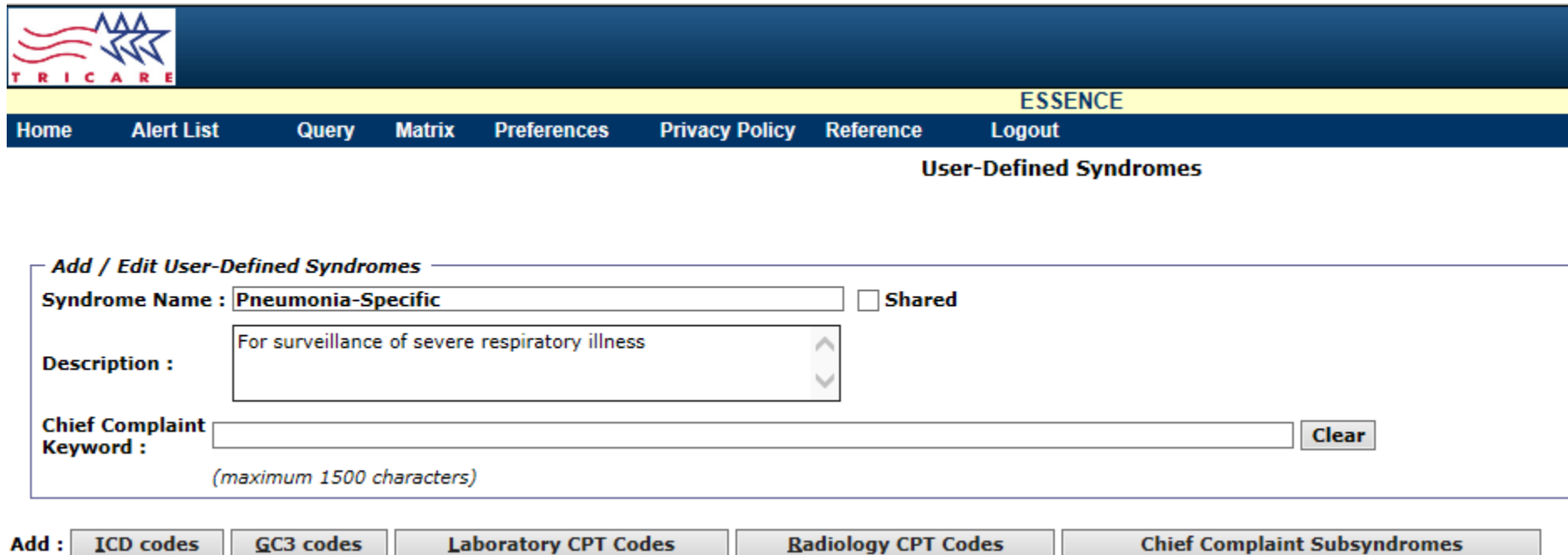
- In the User-Defined Syndromes screen, click “New.”





# Creating a User Defined Pneumonia Syndrome

- Enter in a name and description for your syndrome. Example below:



The screenshot shows the ESSENCE web application interface. At the top left is the TRICARE logo. A navigation bar contains links for Home, Alert List, Query, Matrix, Preferences, Privacy Policy, Reference, and Logout. The main heading is "User-Defined Syndromes". Below this is a form titled "Add / Edit User-Defined Syndromes". The form includes a "Syndrome Name" field with the text "Pneumonia-Specific" and a "Shared" checkbox. The "Description" field contains the text "For surveillance of severe respiratory illness". The "Chief Complaint Keyword" field is empty, with a "Clear" button to its right. A note below the keyword field states "(maximum 1500 characters)". At the bottom of the form, there are five buttons labeled "Add : ICD codes", "GC3 codes", "Laboratory CPT Codes", "Radiology CPT Codes", and "Chief Complaint Subsyndromes".

**TRICARE**

**ESSENCE**

Home Alert List Query Matrix Preferences Privacy Policy Reference Logout

**User-Defined Syndromes**

*Add / Edit User-Defined Syndromes*

Syndrome Name :   Shared

Description :

Chief Complaint Keyword :

*(maximum 1500 characters)*

Add :

# Creating a User Defined Pneumonia Syndrome

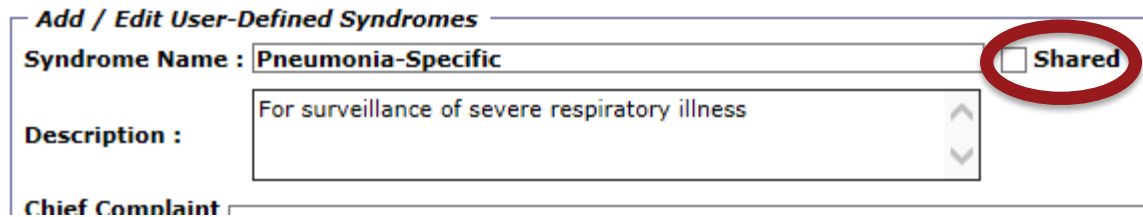
- To allow multiple users to share the same syndrome definition, click the check box next to “Shared”.
- This allows other ESSENCE users to search for the syndrome you create.

*Add / Edit User-Defined Syndromes*

**Syndrome Name :** Pneumonia-Specific  **Shared**

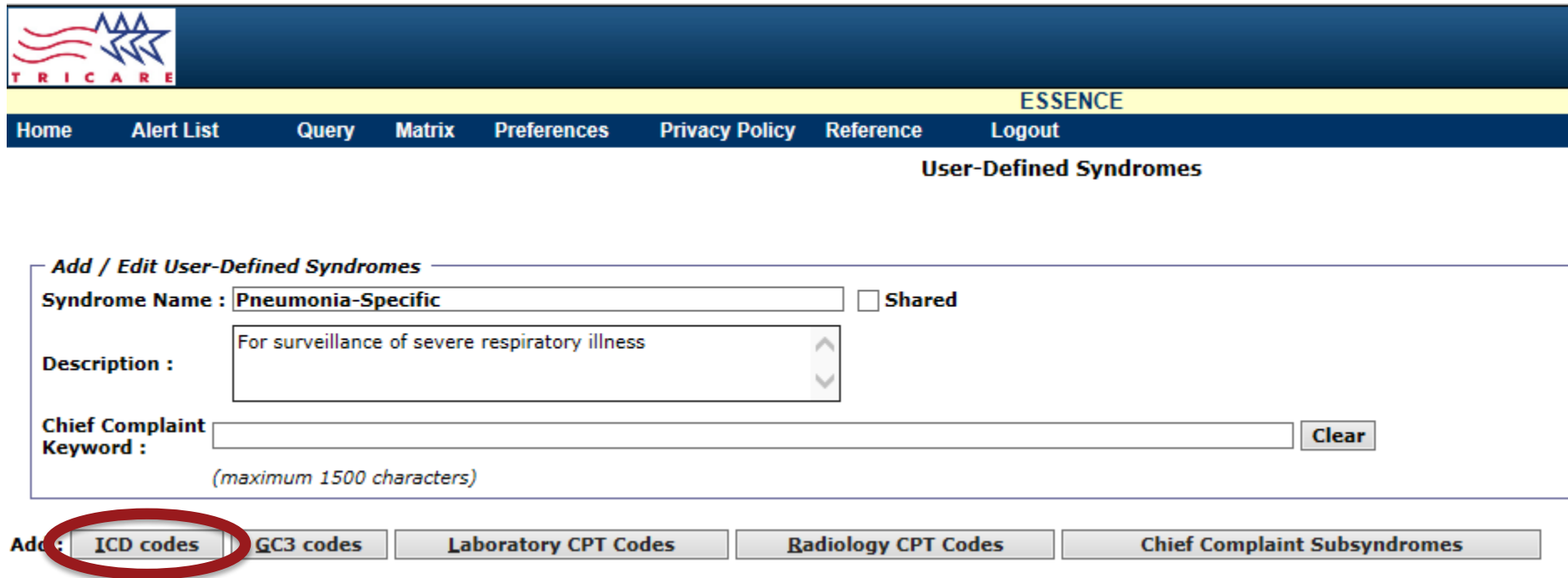
**Description :** For surveillance of severe respiratory illness

**Chief Complaint**

A screenshot of a web form titled "Add / Edit User-Defined Syndromes". The form has three main sections: "Syndrome Name", "Description", and "Chief Complaint". The "Syndrome Name" field contains the text "Pneumonia-Specific". To the right of this field is a checkbox labeled "Shared", which is circled in red. The "Description" field contains the text "For surveillance of severe respiratory illness". The "Chief Complaint" field is empty.

# Creating a User Defined Pneumonia Syndrome

- Click “ICD codes” next to “Add”.



The screenshot shows the ESSENCE system interface. At the top left is the TRICARE logo. A navigation bar contains links for Home, Alert List, Query, Matrix, Preferences, Privacy Policy, Reference, and Logout. The main heading is "User-Defined Syndromes". Below this is a form titled "Add / Edit User-Defined Syndromes". The form includes a "Syndrome Name" field with the text "Pneumonia-Specific" and a "Shared" checkbox. The "Description" field contains the text "For surveillance of severe respiratory illness". The "Chief Complaint Keyword" field is empty, with a "Clear" button to its right. Below the form is a row of buttons for adding codes: "Add : ICD codes", "GC3 codes", "Laboratory CPT Codes", "Radiology CPT Codes", and "Chief Complaint Subsyndromes". The "ICD codes" button is circled in red.

**TRICARE**

**ESSENCE**

Home Alert List Query Matrix Preferences Privacy Policy Reference Logout

**User-Defined Syndromes**

*Add / Edit User-Defined Syndromes*

Syndrome Name : Pneumonia-Specific  Shared

Description : For surveillance of severe respiratory illness

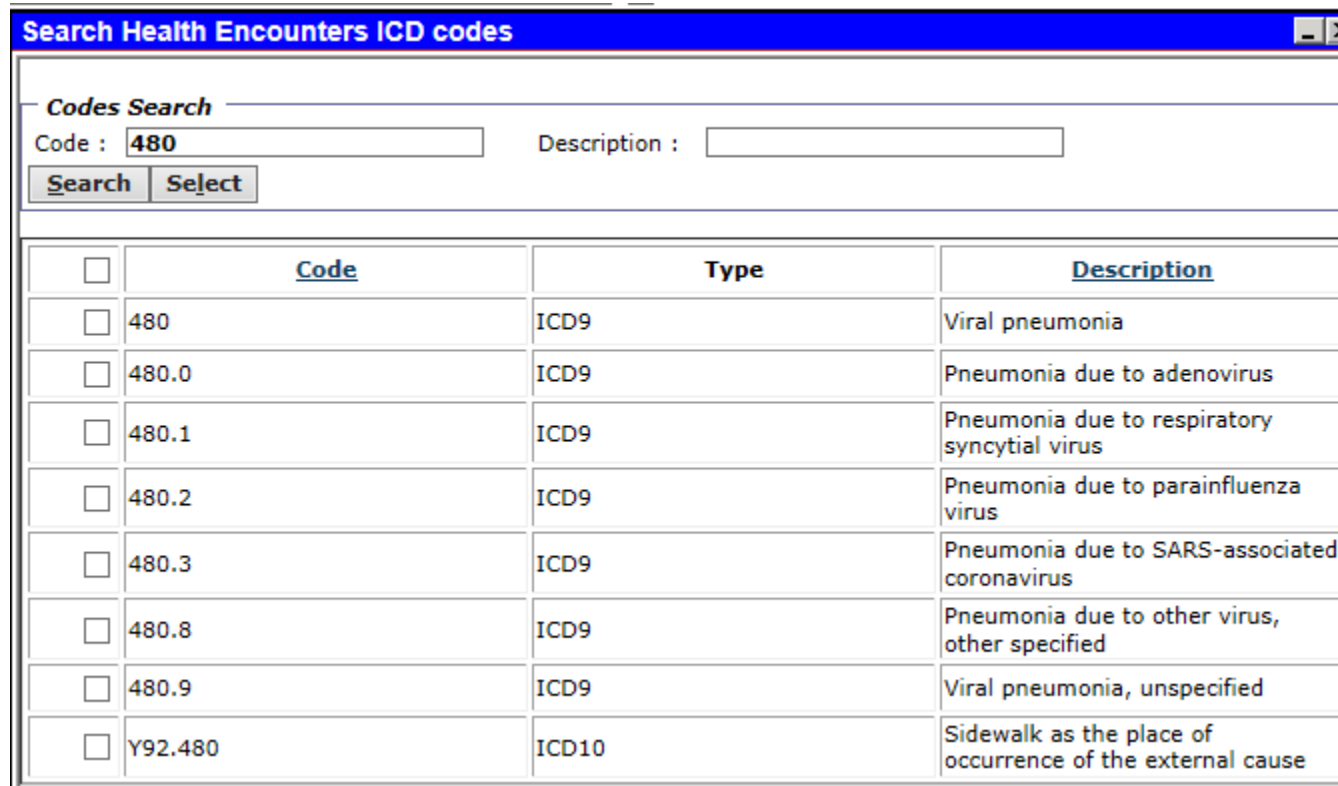
Chief Complaint Keyword :

*(maximum 1500 characters)*

Add : **ICD codes** GC3 codes Laboratory CPT Codes Radiology CPT Codes Chief Complaint Subsyndromes

# Creating a User Defined Pneumonia Syndrome

- In the pop-up window, search for the pneumonia-specific ICD-9 and ICD-10 codes.



The screenshot shows a window titled "Search Health Encounters ICD codes". It contains a search interface with a "Code" field containing "480" and an empty "Description" field. Below the search fields are "Search" and "Select" buttons. A table below displays the search results:

<input type="checkbox"/>	<u>Code</u>	<u>Type</u>	<u>Description</u>
<input type="checkbox"/>	480	ICD9	Viral pneumonia
<input type="checkbox"/>	480.0	ICD9	Pneumonia due to adenovirus
<input type="checkbox"/>	480.1	ICD9	Pneumonia due to respiratory syncytial virus
<input type="checkbox"/>	480.2	ICD9	Pneumonia due to parainfluenza virus
<input type="checkbox"/>	480.3	ICD9	Pneumonia due to SARS-associated coronavirus
<input type="checkbox"/>	480.8	ICD9	Pneumonia due to other virus, other specified
<input type="checkbox"/>	480.9	ICD9	Viral pneumonia, unspecified
<input type="checkbox"/>	Y92.480	ICD10	Sidewalk as the place of occurrence of the external cause

# Creating a User Defined Pneumonia Syndrome

- Click the checkboxes next to the codes to include and click “Select”.

Search Health Encounters ICD codes

Codes Search

Code : 480 Description :

Search Select







<input type="checkbox"/>	Code	Type	Description
<input type="checkbox"/>	480	ICD9	Viral pneumonia
<input type="checkbox"/>	480.0	ICD9	Pneumonia due to adenovirus
<input type="checkbox"/>	480.1	ICD9	Pneumonia due to respiratory syncytial virus
<input type="checkbox"/>	480.2	ICD9	Pneumonia due to parainfluenza virus
<input type="checkbox"/>	480.3	ICD9	Pneumonia due to SARS-associated coronavirus
<input type="checkbox"/>	480.8	ICD9	Pneumonia due to other virus, other specified
<input type="checkbox"/>	480.9	ICD9	Viral pneumonia, unspecified
<input type="checkbox"/>	Y92.480	ICD10	Sidewalk as the place of occurrence of the external cause

# Creating a User Defined Pneumonia Syndrome

- The codes you select will be listed under your syndrome name.
  - Note that you will need to search for codes multiple times in order to select all pneumonia-specific code groups.

Add :  ICD codes  GC3 codes  Laboratory CPT Codes  Radiology CPT Codes  Chief Complaint Subsyndromes

## - Summary Added/Deleted Items

	Code	Code Type	Description
	480.0	ICD9	Pneumonia due to adenovirus
	480.1	ICD9	Pneumonia due to respiratory syncytial virus
	480	ICD9	Viral pneumonia
	480.8	ICD9	Pneumonia due to other virus, other specified
	480.2	ICD9	Pneumonia due to parainfluenza virus
	480.3	ICD9	Pneumonia due to SARS-associated coronavirus

# Creating a User Defined Pneumonia Syndrome

- After selecting all codes to include, click “Save”.

Add :

*- Summary Added/Deleted Items*

	Code	Code Type	
<input type="button" value="−"/>	480.0	ICD9	F
<input type="button" value="−"/>	480.1	ICD9	F
<input type="button" value="−"/>	480	ICD9	\
<input type="button" value="−"/>	480.8	ICD9	F
<input type="button" value="−"/>	480.2	ICD9	F
<input type="button" value="−"/>	480.3	ICD9	F

<

# Creating a User Defined Pneumonia Syndrome

- The syndrome will then appear in your list of user-defined syndromes:

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**User-Defined Syndromes**


	<b>Syndrome Name</b>	<b>Description</b>
<input type="button" value="Edit"/> <input type="button" value="Delete"/>	Pneumonia-Specific	For surveillance of severe respiratory illness



# **RUNNING QUERIES WITH USER- DEFINED SYNDROMES**

# Running Queries with User-Defined Syndromes

- When querying health encounter data, user-defined syndromes appear in the list after the ESSENCE system-defined syndromes:

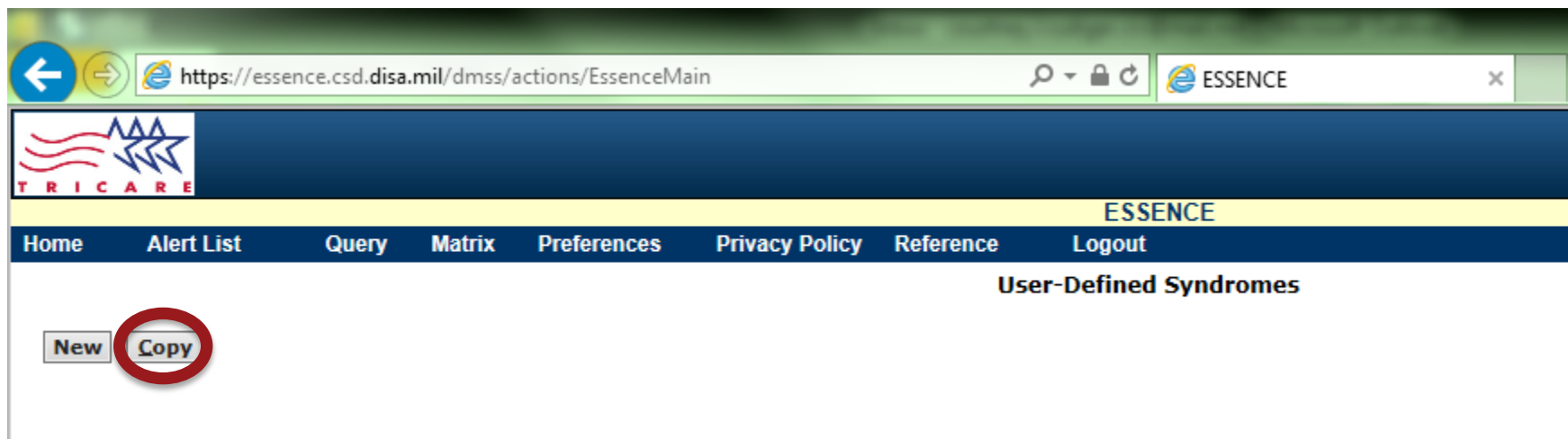
Current Data Query Selections	
Site	NAVMED-EAST  <a href="#">Site Selection</a>
Data Source	Health Encounters
MTF	All MTFs
Category	Syndromes

Next Selections:	
<b>Syndrome</b>	<ul style="list-style-type: none"><li>Botulism-like</li><li>Fever, Unexplained</li><li>Gastrointestinal</li><li>Hemorrhagic Illness</li><li>ILI</li><li>Influenza Specific</li><li>Localized Cutaneous Lesion</li><li>Neurological</li><li>Rash</li><li>Shock/Coma/Death</li><li>-----</li><li>Pneumonia-Specific</li></ul>
<b>Disposition</b>	<ul style="list-style-type: none"><li></li></ul>
<b>Age Group</b>	<ul style="list-style-type: none"><li></li></ul>
<b>Clinic Type</b>	<ul style="list-style-type: none"><li>All Clinic Types</li><li>ER</li><li>Other</li><li>Primary Care</li></ul>

# **ADDING A SHARED USER-DEFINED SYNDROME**

# Adding a Shared User-Defined Syndrome

- In the User-Defined Syndrome screen, click “Copy”.



# Adding a Shared User-Defined Syndrome

- Enter the name of the syndrome and the user name of the person who created the syndrome.
  - Last name is sufficient to enter in the User Name field.
- If the syndrome name or user name is unknown, de-selecting the check boxes next to System Defined Syndromes (System Syndromes, D&I, and RME) will limit the search results so they are more manageable.

**Common Area Syndromes (CAS)**

**Syndrome Search**

Syndrome Name :  User Name :

System Defined Syndromes :  **System Syndromes**     **D&I**     **RME**

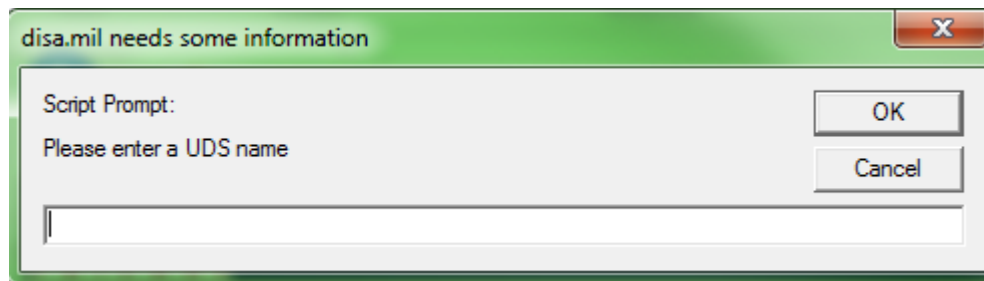
User Defined Syndromes :  **Shared Syndromes**     **My Syndromes**

# Adding a Shared User-Defined Syndrome

- Click “Copy” next to the syndrome you wish to add.

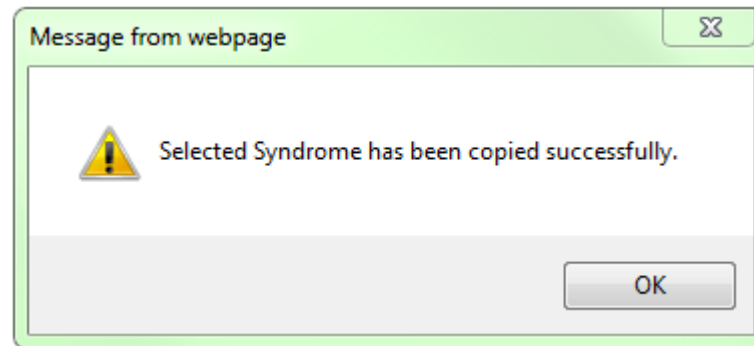
	<u>User Name</u>	<u>Syndrome Name</u>
	██████████	<a href="#">allergic rhinitis</a>
	██████████	<a href="#">Abdominal Pain</a>
	██████████	<a href="#">ARTHRITIS</a>

- In the pop-up window, enter a name for the syndrome. This will be the name used in your list of user-defined syndromes.



# Adding a Shared User-Defined Syndrome

- The following message will appear when the syndrome has been copied:



- The syndrome will appear with the name provided in the list of user-defined syndromes as well as in the list of syndromes for health encounter queries.

# CONTACT INFORMATION



# Questions?

- Your cognizant NEPMU is available to assist with surveillance questions, investigation support, risk assessment, & laboratory testing:

## NEPMU-2:

COMM: (757) 953-6600; DSN: (312) 377-6600

E-mail: [usn.hampton-roads.navhospporsva.list.nepmu2norfolk-threatassess@mail.mil](mailto:usn.hampton-roads.navhospporsva.list.nepmu2norfolk-threatassess@mail.mil)

## NEPMU-5:

COMM: (619) 556-7070; DSN: (312) 526-7070

E-mail: [usn.san-diego.navenpvntmedufive.list.nepmu5-health-surveillance@mail.mil](mailto:usn.san-diego.navenpvntmedufive.list.nepmu5-health-surveillance@mail.mil)

## NEPMU-6:

COMM: (808) 471-0237; DSN: (315) 471-0237

E-mail: [usn.jbphh.navenpvntmedusixhi.list.nepmu6@mail.mil](mailto:usn.jbphh.navenpvntmedusixhi.list.nepmu6@mail.mil)

## NEPMU-7:

COMM: International: 011-34-956-82-2230; Local: 727-2230; DSN: 94-314-727-2230

E-mail: [NEPMU7@eu.navy.mil](mailto:NEPMU7@eu.navy.mil)

## For additional resources:

- NMCPHC Preventive Medicine Directorate
  - COMM: (757) 953-0700; DSN: (312) 377-0700
    - Ask for the Preventive Medicine Directorate
  - E-mail: [usn.hampton-roads.navmcpubhlthcenpors.list.nmcphcthreatassess@mail.mil](mailto:usn.hampton-roads.navmcpubhlthcenpors.list.nmcphcthreatassess@mail.mil)

# **APPENDIX: FULL LIST OF PNEUMONIA-SPECIFIC ICD-9 AND ICD-10 CODES**

ICD-9 CODES			
<b>480</b>	Viral pneumonia	<b>483.8</b>	Pneumonia due to other specified organism
<b>480.0</b>	Pneumonia due to adenovirus	<b>484</b>	Pneumonia in infectious diseases classified elsewhere
<b>480.1</b>	Pneumonia due to respiratory syncytial virus	<b>484.1</b>	Pneumonia in cytomegalic inclusion disease
<b>480.2</b>	Pneumonia due to parainfluenza virus	<b>484.3</b>	Pneumonia in whooping cough
<b>480.3</b>	Pneumonia due to other virus not elsewhere classified	<b>484.5</b>	Pneumonia in anthrax
<b>480.9</b>	Viral pneumonia, unspecified	<b>484.6</b>	Pneumonia in aspergillosis
<b>481</b>	Pneumococcal pneumonia	<b>484.7</b>	Pneumonia in other systemic mycoses
<b>482</b>	Other bacterial pneumonia	<b>484.8</b>	Pneumonia in other infectious diseases classified elsewhere
<b>482.0</b>	Pneumonia due to Klebsiella pneumoniae	<b>485</b>	Bronchopneumonia, organism unspecified
<b>482.1</b>	Pneumonia due to Pseudomonas	<b>486</b>	Pneumonia, organism unspecified
<b>482.2</b>	Pneumonia due to Haemophilus influenzae	<b>487.0</b>	Influenza with pneumonia
<b>482.3</b>	Pneumonia due to streptococcus	<b>488.01</b>	Influenza due to identified avian influenza virus with pneumonia
<b>482.30</b>	Pneumonia due to Streptococcus, unspecified	<b>488.11</b>	Influenza due to identified 2009 H1N1 influenza virus with pneumonia
<b>482.31</b>	Pneumonia due to Streptococcus, group A	<b>488.81</b>	Influenza due to identified novel influenza A virus with pneumonia
<b>482.32</b>	Pneumonia due to Streptococcus, group B		
<b>482.39</b>	Pneumonia due to other Streptococcus		
<b>482.4</b>	Pneumonia due to staphylococcus		
<b>482.40</b>	Pneumonia due to Staphylococcus, unspecified		
<b>482.41</b>	Methicillin susceptible pneumonia due to Staphylococcus aureus		
<b>482.42</b>	Methicillin resistant pneumonia due to Staphylococcus aureus		
<b>482.49</b>	Other Staphylococcus pneumonia		
<b>482.8</b>	Pneumonia due to other specified bacteria		
<b>482.81</b>	Pneumonia due to anaerobes		
<b>482.82</b>	Pneumonia due to Escherichia coli		
<b>482.83</b>	Pneumonia due to other gram-negative bacteria		
<b>482.84</b>	Pneumonia due to Legionnaires' disease		
<b>482.89</b>	Pneumonia due to other specified bacteria		
<b>482.9</b>	Bacterial pneumonia, unspecified		
<b>483</b>	Pneumonia due to other specified organism		
<b>483.0</b>	Pneumonia due to Mycoplasma pneumoniae		
<b>483.1</b>	Pneumonia due to chlamydia		

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ICD-10 CODES			
<b>J09.X1</b>	Influenza due to identified novel influenza A virus with pneumonia	<b>J15.212</b>	Pneumonia due to methicillin resistant Staphylococcus aureus
<b>J10.0</b>	Influenza due to other identified influenza virus with pneumonia	<b>J15.29</b>	Pneumonia due to other staphylococcus
<b>J10.00</b>	Influenza due to other identified influenza virus with unspecified type of pneumonia	<b>J15.3</b>	Pneumonia due to streptococcus, group B
		<b>J15.4</b>	Pneumonia due to other streptococci
<b>J10.01</b>	Influenza due to other identified influenza virus with the same other identified influenza virus pneumonia	<b>J15.5</b>	Pneumonia due to Escherichia coli
		<b>J15.6</b>	Pneumonia due to other aerobic Gram-negative bacteria
<b>J10.08</b>	Influenza due to other identified influenza virus with other specified pneumonia	<b>J15.7</b>	Pneumonia due to Mycoplasma pneumoniae
		<b>J15.8</b>	Pneumonia due to other specified bacteria
<b>J11.0</b>	Influenza due to unidentified influenza virus with pneumonia	<b>J15.9</b>	Unspecified bacterial pneumonia
<b>J11.00</b>	Influenza due to unidentified influenza virus with unspecified type of pneumonia	<b>J16</b>	Pneumonia due to other infectious organisms, not elsewhere classified
<b>J11.08</b>	Influenza due to unidentified influenza virus with specified pneumonia	<b>J16.0</b>	Chlamydial pneumonia
		<b>J16.8</b>	Pneumonia due to other specified infectious organisms
<b>J12</b>	Viral pneumonia, not elsewhere classified	<b>J17</b>	Pneumonia in diseases classified elsewhere
<b>J12.0</b>	Adenoviral pneumonia	<b>J18</b>	Pneumonia, unspecified organism
<b>J12.1</b>	Respiratory syncytial virus pneumonia	<b>J18.0</b>	Bronchopneumonia, unspecified organism
<b>J12.2</b>	Parainfluenza virus pneumonia	<b>J18.1</b>	Lobar pneumonia, unspecified organism
<b>J12.3</b>	Human metapneumovirus pneumonia	<b>J18.2</b>	Hypostatic pneumonia, unspecified organism
<b>J12.8</b>	Other viral pneumonia	<b>J18.8</b>	Other pneumonia, unspecified organism
<b>J12.81</b>	Pneumonia due to SARS-associated coronavirus	<b>J18.9</b>	Pneumonia, unspecified organism
<b>J12.89</b>	Other viral pneumonia		
<b>J12.9</b>	Viral pneumonia, unspecified		
<b>J13</b>	Pneumonia due to Streptococcus pneumoniae		
<b>J14</b>	Pneumonia due to Haemophilus influenza		
<b>J15</b>	Bacterial pneumonia, not elsewhere classified		
<b>J15.0</b>	Pneumonia due to Klebsiella pneumoniae		
<b>J15.1</b>	Pneumonia due to Pseudomonas		
<b>J15.2</b>	Pneumonia due to staphylococcus		
<b>J15.20</b>	Pneumonia due to staphylococcus unspecified		
<b>J15.21</b>	Pneumonia due to Staphylococcus aureus		
<b>J15.211</b>	Pneumonia due to methicillin susceptible Staphylococcus aureus		

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