

## CEND/Population Explorer User Guide

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## **CEND & Population Explorer**

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Population Explorer is a module of the HIE Portal that enables near-real time encounter notifications from CSS Insights, as well as functionality to filter, view details, and export notifications of interest. This document serves as a general user guide to assist in navigating Population Explorer and associated functionality.

Population Explorer offers a user-friendly interface for clinicians and care teams to review patients' encounters, providing access to the latest encounters and sixmonth encounter history. It is integrated directly in the CRISP Portal Homepage. To learn more, visit our <u>CEND and Population Explorer website page</u>.

# 2 Event Notification Delivery Methods through CEND

CEND supports ADT & Notification bulk files integrations via SFTP, MFT, & EMR. Additionally, we created an application called Population Explorer, enabling users to view notifications. More methods are being developed.

Notification delivery via Doc Halo & CRISP Direct are *NOT* supported under CEND.

## 3 Accessing Population Explorer

Access to the Population Explorer module is granted by your HIE Admin from the CSS Salesforce HIE Admin Tool. Once you have been granted access, it will natively appear in the HIE Portal Landing page as a new widget on the right-hand side of the screen. If you do not have access to Population Explorer and believe that you should, please contact your organizational HIE Admin.

Once you have access to Population Explorer itself, access to patient notifications is managed via your Panel Subscriptions. For more information on creating and managing panels, contact your account manager.



## 4 Population Explorer Basic Functionality

After logging into the CRISP Portal once Population Explorer access has been granted, you will see a new widget pane appear on the right-hand side of the screen, as shown below.

😚 НОМЕ	Applications & Repo	orts XQ						
This query portal is for authorized use only. By using this sy uses a privacy monitoring tool to ensure all users are adhere	icles and Procedure	s. Click here to review the policies and procedure. CRISP MD						
Q Patient Search	Ciex State	Population Explorer						
First Name * Last Name *	First Name Last	st Name Date of Birth	Gender	Address	Match	Score	View Panel 👻	
Date of Birth * 🛗 Gender 👻	No records found	No records found						
SSN							No notifications for this panel.	
Reset Search						•		
Your Dashboard 🌻 For applications requiring pat								
Panel Processor HIE Admin Tool	Delegato	or Dashboard Pr	ovider Directory					
						Hide		

#### 4.1 Panel Selection & Notification Timing

To choose a panel, use the drop-down menu labeled 'View Panel' at the top of the pane. All your available panels will be listed here, along with any advanced panels you have created (see section 8 below). The pane will then display encounter notifications for the selected panel.

Notification updates are fetched every twenty minutes but are not loaded to the interface automatically to avoid disrupting user workflows. A notification icon will appear in the upper rightcorner of the Population Explorer after a notification sync, informing you that new notifications may be available. Click the icon to load any new notifications. Twenty-five notifications load at a time; simply scroll down to load more. If no notifications are available, a 'No data to display' message will show.

To download the current list of notifications, click the 'Download' button below the panel selection dropdown menu.





## 4.2 Population Explorer Settings

Clicking the gear icon in the upper left corner of the Population Explorer pane will bring up the settings for the module. This allows you to set your preferred defaults, including the default view on load for the Population Explorer, default panel to select on opening, default filter to select on opening, and default number of records included in downloaded extracts. You can also set whether you would like to hide notification status management and enable advanced panels here. Notification auto-load is currently disabled and cannot be turned on.

Population Explorer Settings						
Default panel						
WVHIN Demo2 - Amb	oulatory Panel (WV_D2_AN	/IB_P)	•			
Default filter			_			
			· ·			
Default widget view						
Normal View			~			
Download size						
500			<b>‡</b>			
Hide notification statu	s management features:					
Enable notification aut	o load:					
Enable advanced pane	l builder:					
RESET ALL	DISCARD CHANGES	SAVE CHANGES	CLOSE			

## 4.3 Event Notification Display

In Population Explorer, all related patient events will be consolidated into a single encounter line item. This provides one complete encounter with the patient's latest status.



#### 4.4 Expanded View

To expand the Population Explorer and access additional functionality, click the blue expansion bar on the left-hand side of the pane. Clicking the expansion bar again will collapse, then hide the pane entirely. Clicking again will restore the pane to its default view.

The Expanded View shows the current notification list, Detail View, and Quick Filter interfaces all in one location, as shown below. You can also toggle between viewing just Encounters, just Notifications, or all alerts using the selector in the upper left-hand corner of the window. These items are described in greater detail in the sections that follow.

	Population Explorer	View Panel CT Demo Panel 1 (CT_CEND_DEMO1)  COnfigure Rosters Configure Rosters	Quick Filter
	DETAIL TABLE		Type to select
	Notification Display Type	- + B Patient Export	€ APPU
	SALAZAR_DEMO, FRANCISCO DOB: 1946-06-01 Admit Date: 2024-05-23 18:57 Male Notification Type: Emergency Encounter Facility: Saint Francis Hospital	Follow-Up Status     Follow-Up Status:     In Progress     Last Modified: 2024-08-26T15:08:02.442257 By: elleen doane@crisphealth.org	
•	CARPENTER_DEMO, ANDREW DOB: 1942-06-01 Admit Date: 2024-05-21 12:56 Male Notification Type: Emergency Encounter Facility: Yale New Haven Hospital	Patient Demographics     First Name:     FRANCISCO Last Name:     SALAZAR DEMO	
	WOOD_DEMO, MARTY DOB: 1966-06-01 Admit Date: 2024-03-06 07:57 Male Notification Type: Outpatient Encounter Facility: Hartford Healthcare Corporation	Gender:         Male           Address:         8339 GROVE ST, SIMSBURY, CT, 06070-2605           Home Phone:         860 408-9729	
	ABADI_DEMO, MOHAMED DOB: 1970-06-01 Admit Date: 2024-03-05 15:34 Male Notification Type: Outpatient Encounter Facility: Northeast Medical Group	Work Phone: Date of Birth: 1946-06-01 Date of Death:	Configure Global Filters Saved Filters Type to select   Cond
Hide	≪ < of 8 > ≫ ₿	Panel MRN: 11795218	Clear Filters Save Current Filter

#### 4.5 Detail View

To view the details for a notification, click on the notification you want to review. This will bring up a Notification Detail View that contains additional information on the notification, as shown below.

Along with the encounter details for the selected notification, the Detail View will contain all other notifications for the selected patient; loading history for the past 6 months by default. Clicking on any one of these past notifications will switch to the detail view for that notification.

If you scroll down in the Detail View window, you will also see an expanded list of all diagnosis codes associated with that event.

DETAIL TABLE		
Notification Display Type All	·	- + B Patient
Small_DEMO, Stephen         DOB: 2018-01           Admit Date:         2024-10-10 15:18         N           Notification Type:         outpatient Encounter         Facility:           Facility:         WVHIN Demo3 - Payer Source         Notes	ot ale Follow-Up Status	
Lewis_DEMO, Daniel DOB: 1958-01 Admit Date: 2024-10-10 12:23 M Notification Type: Outpatient Encounter Facility: WVHIN Demo1 - Hospital Source	01 E Patient Demographics First Name:	Tracie
Sheppard_DEMO, Tracie         DOB: 1977-01           Admit Date:         2024-10-10         11:56         Ferr           Notification Type:         Outpatient Encounter         Facility: WVHIN Demo1 - Hospital Source	Last Name: 01 Gender: ale Address: Home Phone:	Sheppard_UEMU Female 79894 Martinez Extensions Suite 188, Andersonshire, WV, 22535
Morton_DEMO, Rhonda DOB: 2011-01 Admit Date: 2024-10-10 09:08 Fer Notification Type: Outpatient Encounter Facility: WVHIN Demo1 - Hospital Source	01 Work Phone: ale Date of Birth: Date of Dath:	1977-01-01

You can expand or collapse all sections of the Detail View panel using the plus and minus buttons at the top of the screen, respectively.

Export			- + 🕒 Patient Export
1	-  -  -  -  -  -  -  -  -  -  -  -  -  -	D	
- + Patient Export	First Name: Last Name:		PAULA JOHNSON_DEMO
A	Gender:		Female
	Address:	PC	BOX 99997, BALTIMORE, MD, 21206
	Home Phone:		
	Work Phone:		
	Date of Birth:		1951-06-01

To export the current Detail view, click on the Patient Export button to export it in your preferred format. Additional information on the export functionality is available in section 7 below.



## 4.6 Launching Patient Information into Clinical Information or Other Apps

When you right-click on a patient in either the expanded or collapsed view, you can easily access the selected patient's clinical information within the portal. This method also allows you to launch other applications, although only applications such as Clinical Information or Snapshot, which are intended for use with a single patient, will automatically display the selected patient's data.

© CRISP. All Rights Reserved.	Select App	×
🛠 НОМЕ	CareTeam	. 1
Population Explore	CareTeam - Dev	el > Panel 1 (DC_C
DETAIL TABLE	Clinical Information Demo	•
	Clinical Information Test	•
MALONE DEMO, MARGARET	Consentric	-Up Status
Encounter Type: Outpatient Event Time: 2024-02-29 14:5	Consentric Dev	atus:
MALONE DEMO, MARGARET	COVID Lab Tools	d: By:
Encounter Type: Outpatient Event Time: 2024-02-29 14:5	Emergent Imaging	•
	InContext Dev	t Demograph
Encounter Type: Inpatient	InContext SSO Test	Last Name:

### 4.7 Table View

Using the tabs in the upper left corner of the Expanded View, users can switch between Detail View and Table View. Table View presents users with a customizable list of notifications. The column headers allow users to edit what data is shown for the notification and the order in which notifications are sorted.

Γ	Population Explorer				View Panel CT Demo Panel 1 (CT_CEI	ND_DEMO1)	X Export	Configure Rosters	
	DETAIL TABLE								
	Notification Display Type All			Ŧ	, 				Patient Export
	Name	Age	Gender	State	Facility	Facility Type	Notification Type	Encounter Type	Follow-Up Status
	SALAZAR_DEMO, FRANC	78	м	ст	Saint Francis Hospital	Hospital	Emergency Encounter	Emergency	In Progress
	CARPENTER_DEMO, AN	82	м	СТ	Yale New Haven Hospital	Hospital	Emergency Encounter	Emergency	Not Started
	WOOD_DEMO, MARTY	58	м	ст	Hartford Healthcare Cor	Hospital	Outpatient Encounter	Outpatient	Not Started
	ABADI_DEMO, MOHAMED	54	м	ст	Northeast Medical Group	Ambulatory Medical	Outpatient Encounter	Outpatient	Not Started
	WOOD_DEMO, MARTY	58	м	ст	Hartford Healthcare Cor	Hospital	Outpatient Encounter	Outpatient	Not Started
	WOOD_DEMO, MARTY	58	м	ст	Hartford Healthcare Cor	Hospital	Outpatient Encounter	Outpatient	Not Started 🔹
	KENNEDY_DEMO, HEAT	68	F	ст	Yale New Haven Hospital	Hospital	Emergency Encounter	Emergency	Not Started -
	WOOD_DEMO, MARTY	58	м	ст	Hartford Healthcare Cor	Hospital	Outpatient Encounter	Outpatient	Not Started 🚽
	WOOD_DEMO, MARTY	58	м	ст	Hartford Healthcare Cor	Hospital	Outpatient Encounter	Outpatient	Not Started -
	CARPENTER_DEMO, AN	82	м	СТ	Yale New Haven Hospital	Hospital	Inpatient Encounter	Inpatient	Not Started
► Hide	« < Pag	je	1	of 8	> » e	ý			Displaying 1 - 25 of 176



Users can also click the panel expander to add or cut certain data criteria and filters.



## 5 Patient Event Information

In the expanded view of Population Explorer, users can scroll to see the follow sections: Follow Up Status; Patient Demographics; Selected Encounter Details; Diagnosis Details; Follow Up Status History; Encounter History

## 5.1 Follow Up Status

This functionality allows you to track the follow-up status of a notification within the Population Explorer interface and is automatically activated in the UI.





To opt-out of notification status, simply click the gear icon in the upper left corner of the Population Explorer pane and check the 'Hide Notification Status Management features.' Note that this will not change or remove any statuses that have been set; it simply determines whether the functionality displays in the UI so that users who do not need this functionality can hide it to keep their interface clean. By default, this is enabled.

Population Exp		×						
			•					
Default panel				~				
Default filter				-				
Default widget view	Default widget view							
Normal View				•				
Download size								
500				-				
Hide notification status	management features:							
Enable notification auto	load:							
Enable advanced panel	builder:							
RESET ALL	DISCARD CHANGES	SAV	E CHANGES	CLOSE				

If enabled, a Status drop-down menu will be available for each encounter in both the Detail View and Table view along with Last Edited information. The available status values are 'Not Started', 'In Progress', and 'Complete', and a set status will be shared with all users who have access to the specific panel and notification you are currently viewing.

Population Explorer	View Panel WVHIN Demo2 - Ambulatory Pan	nel (WV	_D2_AMB	_P)	🖕 📓 Export	
DETAIL TABLE						
Notification Display Type All						Patient Export
Name		Age	Gender	State	Encounter Type	Follow-Up Status
Small_DEMO, Stephen		6	м	wv	Outpatient	In Progress 👻 🕇
Lewis_DEMO, Daniel		66	м	wv	Outpatient	Complete 👻
Sheppard_DEMO, Tracie		47	F	WV	Outpatient	Not Started
Morton_DEMO, Rhonda		13	F	WV	Outpatient	Not Started
Barrett_DEMO, Mary		26	F	WV	Outpatient	In Progress 👻
Ellis_DEMO, Judy		80	F	WV	Outpatient	Not Started
Sheppard_DEMO, Tracie		47	F	WV	Outpatient	Not Started
Sheppard_DEMO, Tracie		47	F	WV	Outpatient	Not Started
Sheppard_DEMO, Tracie		47	F	wv	Outpatient	Not Started
Sheppard_DEMO, Tracie		47	F	wv	Outpatient	Not Started
≪ < Page 1 of 21	> » g					Displaying 1 - 25 of 504

The last user to make a change to the status will be displayed next to the current status, along with the time of the change. Status values will persist for a given notification until a user changes the value and are for informational purposes only. CRISP does not edit or otherwise maintain these statuses – they are entirely user-driven. The status for patients can be included as a data element in exported extracts along with other information, as described in the next section.



#### 5.2 Patient Demographics

The 'Patient demographics' section aggregates the demographic information CRISP has in the 'Master Patient Index (MPI)' for your patient. Data in the MPI is pulled from multiple sources and organizations for your patient.

The Patient Demographics section contains:

- Patient First Name
- Patient Last Name
- Gender
- Address
- Patient Date of Birth
- Home Phone\*
- Work Phone\*
- Patient Demographics
   First Name:
   Last Name:
   Gender:
   Address:
   Date of Birth:
   Home Phone:
   Work Phone:

MARGARET MALONE\_DEMO Female 25 RIBBON ST, CHEVY CHASE, MD, 20815 1942-06-01

\*This fields will be filled if applicat

### 5.3 Selected Encounter Details

The Selected Encounters section provides information on the specific encounter for the patient.

The Calestad Encounters section con-	Selected Encounter Details	
	Admit Date / Time:	2024-02-29 14:55
Admit Time and Date:	Event Date / Time:	2024-02-29 14:56
• Event Time and Date:	Admit Source:	RP
Admit Source:	Care Manager:	
Care Manager:	Care Manager Email:	
<ul> <li>Care Manager Email:</li> </ul>	Care Program:	
Care Program:	Discharge Date:	
<ul> <li>Discharge Date:</li> </ul>	Discharge Disposition:	
<ul> <li>Discharge Disposition:</li> </ul>	Discharge To Location:	
<ul> <li>Discharge to Location:</li> </ul>	Insurance Type: AARP HEAL	FHCARE OPTIONS MEDICARE SUPPLEMENT Supplemental Policy
<ul> <li>Insurance Type:</li> </ul>	Encounter Turco	Outpotient
<ul> <li>Encounter Type:</li> </ul>	Encounter Type.	oupatient
Patient Class:	Patient Class:	0
Patient Complaint:	Patient Complaint:	XR
Point of Care:	Point of Care:	Medstar Surgery Center At Lafayette
Primary Diagnosis Code <sup>•</sup>	Primary Diagnosis Code:	
Primary Diagnosis Description	Primary Diagnosis Description:	



The Diagnosis Details contains ICD-10 codes and other diagnostic code information of the event if available.

a blugho							
	Diagnosis Code	Diagnosis Description					
	110	Essential primary hypertension					
	E03.9	Hypothyroidism, unspecified					

#### 5.5 Encounter History

In Encounter History, you will be able to see encounter history dating back to the last six months for the selected patient.

GROVE DEMO, YVETTE	DOB: 1935-06-01
Encounter Type: Inpatient	Gender: Female
Event Time: 2024-02-29 09:14	
GROVE_DEMO, YVETTE	DOB: 1935-06-01
Encounter Type: Inpatient	Gender: Female
Event Time: 2024-02-29 05:37	
GROVE_DEMO, YVETTE	DOB: 1935-06-01
Encounter Type: Inpatient	Gender: Female
Event Time: 2024-01-08 13:41	
GROVE_DEMO, YVETTE	DOB: 1935-06-01
Encounter Type: Inpatient	Gender: Female
Event Time: 2023-11-09 09:36	



You can create, manage, save, and apply quick filters to the notification list using the 'Quick Filter' bar on the right-hand side of the screen.

To add a new filter, click "type to select" then begin typing the data element you would like to filter on, select the desired filter criteria, and then click the 'Apply' button to apply that filter. Different selection interfaces will appear depending on the selected data element; for example, a date picker will appear allowing you to set desired date ranges for data elements that represent datetimes.

The current list of notifications will then be automatically filtered according to the created criteria. You can apply as many filters as you like; in the quick filter view, all filters are applied as 'AND' criteria. Appendix A provides a list of all the data elements available for filtering, along with the criteria that can be applied.

To remove a previously applied filter criteria, navigate to the list of current filters then click the Delete icon

next to the filter you would like to remove. To clear all current filters, click the 'Clear Filters' button in the bottom left corner of the Quick Filter pane. This will remove all current filters but will not change or delete any previously saved filters.

To save the current set of filters so that it can be reused later, click the 'Save Current Filter' button in the bottom right corner of the Quick Filter pane. Once saved, you will be able to access the filter under "Saved Filters". Commonly used filters available to all users are called "Global Filters". Global Filters will also appear in this list underneath your personal filters, with a globe icon next to the name indicating that they are global filters.

To apply a previously saved filter, select it from the 'Saved Filters' dropdown, then click the 'Load' button. The criteria from the save filter will then appear in the 'Current Filters' list. Note that this



will override any filters in place at the time the saved filter was applied.

Quick Filter	
Diagnosis Codes	~
Input Value E03.9	
Death Indicator : N	•
Diagnosis Codes : E03.9	•
Saved Filters Type to select Clear Filters Save 0	Load
Save Quick Filter	×
Filter Name:	
My Sample Filter	
CREATE UPDATE	CANCEL



Data can be exported from most views of Population Explorer simply by hitting the 'Export' button. This will allow you to create Excel or PDF versions of the data you are currently viewing, as appropriate.

Prior to exporting, you must read and acknowledge the terms for



exporting protected health information. All exports must be handled in accordance with HIPAA and appropriate security safeguards for this type of information.

After agreeing, you will be presented with the Export Interface. This interface allows you to select which fields you would like to include in the created extract by selecting from the available fields. 'Select All' and 'Select None' buttons are made available to quickly change the selection status for all fields. Additionally, you can 'Save Selected Fields As My Default' after making your choices so that the selected fields will auto-select for all future exports that you create. You can always modify the included fields and your defaults at the time of subsequent exports as desired.

Some fields are required to generate the extract; these will be displayed on the lefthand side of the interface but cannot be changed.

After you are done customizing the data fields for the export, simply select the desired export type, PDF or Excel, the extract will be generated, and you will be allowed to save the file locally according to the settings of the internet browser you are using. Some export options (such as the table view) will only allow export via Excel, given the amount of data to be included.





## 8 Advanced Panel Builder

The Advanced Panel Builder (APB) allows users to flexibly create much more complex criteria definitions for filtering patient populations by combining panels and applying Boolean logic operators to any of the data elements available in Population Explorer. This is useful in situations where the Quick Filter functionality does not offer sufficient granularity for targeting a desired set of beneficiaries or events.

The Advanced Panel Builder must be enabled before first use. To do this, first navigate to settings menu:

P URISH: All Hights Reserved.								Et Loocert
Annual sensing and an additional and a sensitive and a s			AO INT HIE ADM		Search A	pplications & Reports	EILEEN DOANE	× Q
This query portal is for authorized use only. By using MD uses a object monitorized use only all uses	this system, all users acknow	rledge notice of, and agree t	to comply with, CRISP MD's Pe	rticipation Agreement ("P	() and CRISP MD Po	licies and Procedures. C	Click here to review the policies a	and procedure. CRISP
Q Patient Search	Search Results	Last Name Date	e of Birth Gender Adv	freas	Match	Score	Population Explorer	
First Name *	No records found						C Dento Panel 1 (DC_CEND_DER	ad 🗸
SSN Reset Search	*					w Decada	JOHNSON_DEMO, PAULA Admit Date: 2024-03-06 15:00 Notification Type: Outpatient En Facility: Medstar Washington He	DOB: 1951-06-01 Female counter cospital Center
Your Dashboard 🏚 For applications regul	ing patient context, please at	art by using the Patient Sear	rch interface above.				JOHNSON_DEMO, PAULA Admit Date: 2024-03-06 15:00 Notification Type: Timely Follow Facility: Medstar Washington H	DOB: 1951-06-01 Female « Up Chronic Conditi ospital Center
CRI - Troubleshooting CRISP Rep	orting Service Pr	ovider Directory	User Guide & Help	Vaccine Tra Demo	cking Service -		ABADI_DEMO, MOHAMED Admit Date: 2024-03-05 09:00 Notification Type: Outpatient En Facility: Medstar Georgetown U	DOB: 1938-06-01 Male
								niversity Hospital
							< 1 of 24	niversity Hospital
		(	OR in	Ехра	nde	d Vie	« < <u>1</u> of 24	niversity Hospital
:RISP. All Rights Reserved.		(	OR in	Expa	nde	d Vie ₅) ⊠ s	« < 1 of 24	A PRODUCT U
RISP. All Rights Reserved.		(	OR in	Expa	nde MY HIE ADMIN	d Vi∈	« < 1of24	Applications & F
RISP. All Rights Reserved.		( View Panel	OR in	Expa	nde MY HIE ADMIN	d Vie ₅) ⊠ s		Applications & F
RISP All Rights Reserved. + HOME Population Explorer		View Panel DC Demo Pane		Expa	nde	d Vie s) ⊠ s	« < 1_of24	Applications & I     Export
RISP. All Rights Reserved. HOME Population Explorer DETAIL TABLE		View Panel DC Demo Pane	DR in	Expa	nde MY HIE ADMIN	d Vie	< < 1 of 24	PRODUCT U     Applications & I     Export
RISP. All Rights Reserved. HOME Population Explorer DETAIL TABLE Notification Display Type All		View Panel DC Demo Pane	OR in	Expa	nde MY HIE ADMIN	d Vie s ≥ s	< < 1 of 24	Applications & I Export tient Export
RISP. All Rights Reserved. HOME Population Explorer DETAIL TABLE Notification Display Type All JOHNSON, DEMO, PAULA Admit Date: 3024-03-06 15:00	008: 1951-06-01 Female	View Panel DC Demo Panel	DR in	Expa	nde MY HIE ADMIN	d Vie	< < 1 of 24	A product L

Select "Enable Advanced Panel Builder" and save changes:

Population Explorer Settings		×
Default panel DC Demo Panel 1 (DC_CEND_DEMO1)		<b>.</b>
Default filter		-
Default widget view Collapsed Fully		•
Download size 50		*
Hide notification status management features:		
Enable notification auto load:		
Enable advanced panel builder:	☑ 🖗	
DISCARD CHANGES	SAVE CHANGES	CLOSE
5.		



"Configure Advanced Panel" is now an option. You will not need to enable Advanced Panel Builder every time you access Population Explorer. This will now be your new default setting.



Now that you have enabled the advanced panel builder, click the 'Configure Advanced Panels' button in the upper right corner of the Detail View pane to access



After opening the Advanced Panel Builder, you will be presented with a new APB template, as shown below. To edit an existing advanced panel, select from the 'View Advanced Panels' dropdown at the top of the screen. Otherwise, enter the name for your advanced panel and hit 'Save Changes' to create a new advanced panel. You can then add criteria as described below.

To discard any unsaved changes on the currently selected panel, hit the 'Discard Changes' button. To create a new panel and open a blank APB template after editing or creating a panel, simply click the 'Create New' button. You can set the status of an advanced panel using the Status dropdown to the right of the name field in the creation dialogue interface. Only Active advanced panels will appear in dropdowns throughout the Population Explorer. Set a panel to Inactive if you do not want it to appear in the interface, but do not want to delete it entirely.



Population Explorer - Advar	ced Panel Builder View Advanced Panels	- Cre	eate New	Save Changes	Discard Changes
Close					
Click to add criteria:	Name		Status Inactive	S	elected Criteria
AND	To rearrange the roster rules, simply drag and drop to the desired order.			DELETE	
NOT					
GROUP					
Criteria					

The buttons along the left-hand side of the interface allow you to add panels, criteria, and logical operators to the Advance Panel. Click the 'Panel' button first to add a selection interface that allows you to choose one or more panels as the basis for the advanced panel. Any beneficiaries included on any of the selected panels will be evaluated for inclusion in the advanced panel.

To add a filter criteria, just click the Criteria button. This will bring up an additional interface, shown at right, that allows you to select the data element that will define the criteria, as well as the list of values to be considered. You can manually click on the right-hand side Definition List to add, edit, or remove values, or 'Clear' the list by clicking the corresponding button.

If a data element has a defined set of values, these will pre-populate in the



right-hand side of the dialogue box; simply click the trash can icon to remove values which are not wanted. For data elements that include a long criteria list (such as diagnosis codes), you can download a template, populate the values in Excel, and



then upload the populated template to generate the criteria list rather than entering them one by one.

You may add as many criteria as needed to define the advanced panel. Use the logical operators above (IN, AND, OR, NOT) between criteria to join them. If a set of criteria needs to be considered together (for example, "A AND (B OR C)"), use the Group operator to create containing parentheses sets. Any criteria or operators can be dragged and dropped vertically in the UI to re-order them after they have been placed, and clicking the trash can icon or Delete button on the right-hand side of the screen will remove the selected element.

Population Explorer - Adva	rced Panel Builder View Advanced Panels	Save Ch	anges Discard Changes
Close			
Click to add criteria:	Status		Selected Criteria
IN	Name Inacti	/e 📼	Medstar
	To rearrange the roster rules, simply drag and drop to the desired order.		
AND	Panel:		
OR			
NOT	DC Demo Panel 1 (DC_CEND_DEMO1) ×		
GROUP			
Panel		DELETE	
	Criteria:		
Criteria	Facility IN 👻 DEFINITION LIST 🖍 🗊	i	

A definition list for any criteria can be viewed by simply clicking the 'Definition List' button after it has been created, and likewise, existing definition lists can be edited by clicking the pencil icon next to the Definition List button.

After you are done creating or editing the advanced panel, simply click the 'Close' button in the upper left corner to return to the Detail View of Population Explorer.

Please see <u>Appendix B</u> for step-by-step example of how to create your own filter in Advanced Panel Builder.



## 9 Logic-Based Alerts in Population Explorer

These filters are broken up between encounters and notifications. Users can filter by Logic notification and type, the two critical factors.

Notification Type

These filters will display for current subscribers only and can be added as a feature later, as seen below.

Population Explorer	View Panel DC Demo Panel 1 (DC_CEND_DEMO1)	B Export	Type to select Diagnosis Rule		
DETAIL TABLE Notification Display Type All All Encounters Only Notification Only Tourny: Neural Teamington Hospital Cent JOHNSON, DEMO, PAULA DOB: 19 Admit Date: 2024-03-94 15:00 Notification Type: Timely Follow Up Chronic Facility: Medsar Washington Hospital Cent ABADI.DEMO, MOHAMED DOB: 19	Patient Demographics     Print Name:     Last Name:     Condition     Address:     Home Phone:     Home Phone:	PAULA PAULA JOHNSON, DEMO Female PO BOX 99997, BALTIMORE, MD, 21206	Timely Follow Up Chronic Condition Primary or Secon Diagnosis Readmission Inpa Rule	is " dary itient	
Admit Date: 2024-03-05 09:00 Notification Type: Outpatient Encounter Facility: Medstar Georgetown University Ho	Male Date of Birth: spital Date of Death: Panel MRN:	1951-06-01 21475794	Timely Follow Up Chronic Condition	IS	
e cr24 > >	R Natification Dataila	v	Primary Discharg	e 🔻	

## 10 Appendix A: Filter Data Elements & Criteria

Below is the list of data elements currently available in the Quick Filter, as well as the criteria that can be applied to each data element type.

#### 10.1 Table 1: Filter Data Elements

Note that data elements will only filter if they are present in the underlying encounter data; not all data elements made available in the Population Explorer are fully populated in the originating data feed.

Name	Data Source	Data Type
ASO	Panel	Text
Admit Date/Time	ADT	Date
Admit Source	ADT	Text
Care Manager	Panel	Text
Care Manager Email	Panel	Text
Care Program	Panel	Text
Date of Birth	Panel	Date
Date of Death	ADT	Date
Death Indicator	ADT	Text



Diagnosis Codes	ADT	Alpha-numeric
Diagnosis Descriptions	ADT	Text
Discharge Date/Time	ADT	Date
Discharge Deposition	ADT	Text
Discharge to Location	ADT	Text
Encounter Date	ADT	Date
Facility	ADT	Text
ER Last 30 Days	Calculated field - does not	Numeric
	include current visit	
ER Last 60 Days	Calculated field - does not	Numeric
	include current visit	
ER Last 90 Days	Calculated field - does not	Numeric
	include current visit	
ER Last 180 Days	Calculated field - does not	Numeric
	include current visit	
Facility Type	Mapped from Facility Source	Text
	Code	
Follow Up Status	User defined field	Picklist
Group	Panel	Text
Inpatient Last 30 Days	Calculated field - does not	Numeric
	include current visit	
Inpatient Last 60 Days	Calculated field - does not	Numeric
	include current visit	
Inpatient Last 90 Days	Calculated field - does not	Numeric
	include current visit	
Inpatient Last 180 Days	Calculated field - does not	Numeric
	include current visit	
Insurance From ADT	ADT	Text
Insurance Type	Panel	Text
Location	Panel	Text
MRN	ADT	Alpha-numeric
National Provider	Panel	Numeric
Identifier (NPI)		
Notification Type	Predefined Alert Type	Picklist
OBS (Observation) Last 30	Calculated field - does not	Numeric
Days	include current visit	
OBS (Observation) Last 60	Calculated field - does not	Numeric
Days	include current visit	



OBS (Observation) Last 90	Calculated field - does not	Numeric
Days	include current visit	
OBS (Observation) Last	Calculated field - does not	Numeric
180 Days	include current visit	
Outpatient Last 30 Days	Calculated field - does not	Numeric
	include current visit	
Outpatient Last 60 Days	Calculated field - does not	Numeric
	include current visit	
Outpatient Last 90 Days	Calculated field - does not	Numeric
	include current visit	
Outpatient Last 180 Days	Calculated field - does not	Numeric
	include current visit	
Panel MRN	Panel	Alpha-numeric
Patient Class	ADT	Text
Patient Complaint	ADT	Text
Practice	Panel	Text
Primary Care Provider	Panel	Text
Primary Diagnosis Codes	ADT	Alpha-numeric
Primary Diagnosis	ADT	Text
Description		
Provider	ADT	Text
Risk Methodology 1	Panel	Text
Risk Methodology 2	Panel	Text
Risk Score 1	Panel	Numeric
Risk Score 2	Panel	Numeric

## 10.2 Table 2: Data Type Filter Criteria

Data Element Type	Available Criteria
Boolean	ls, ls Not
Date / Time	Before, After, Exact Date, Range
Code	Equals, Does Not Equal, In, Not In
Fixed Value Set	Equals, Does Not Equal, In, Not In
Free Text	Starts With, Ends With, Contains, Does Not Contain, Equals, Does
	Not Equal



## 11 Appendix B: Advanced Panel Builder Example

Below is a step-by-step example of how to build a filter in Advanced Panel Builder. You can apply any combination of filters to criteria contained in encounters or notifications and customize what is displayed. This tool can be used to include or exclude lists of criteria (i.e. diagnosis codes) or select multiple values to be evaluated and view at one time (i.e. discharges OR admits in the last X number of days).

Step 1: *This step is only for users with multiple panels!* If you have multiple panels and want the criteria to apply to all of them, then skip to step 2. Start with panel selection:

- Click IN on the left-hand menu
- Click PANEL on the left-hand menu
- Click the drop-down arrow and select the panel(s) you want as your starting patient population.

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CRISP. All Rights Reserved.			AWY HIE ADMIN(S)	SEND FEEDBACK	Q PRODUCT UPDATES		
номе				S	Search Applications & Reports		× C
Population Explorer - Advan	ced Panel Builder View Advanced Pan	els		÷	Create New	Save Changes	Discard Changes
Close Clock to add criteria:  N AND OR NOT GROUP Panel Criteria	Name To rearrange the roster rules, simply dri N Panel: WVHIN Demo2 - Ambulatory Panel (V	ig and drop to the desired order.			Status Inactive	- Selec	ted Criteria

Step 2:

Select any additional filter criteria you would like to place on your patient population. Sample filters are at the end of the guide.

- Click operator (AND, OR)
- If you would like to use multiple criteria, use the GROUP button and begin a parenthesis prior to criteria selection.



- Click CRITERIA on the left-hand menu and select which field you would like to filter on.
- Click the drop-down arrow under "Select Criteria" and scroll down to the criteria you want to select

Advanced Panel Builder - Add / Edit Criteria								
Select the desired criteria below, then complete the steps prompted to define the criteria. For criteria requiring long list of definitions, use the interface below to upload a CSV or Excel for ease of entry and review.								
Select Criteria:								
	, They							
ACO	Definition List	Click the item to edit	CLEAR					
Admit Date / Time	Demitton List	Chek the item to eait	OLEAN					
Admit Source								
Care Manager								
Care Manager Email								
Care Program								
Date of Birth								
Date of Death								
Death Indicator								
Diagonal Orag & Drop to Upload File	<b>•</b>							
OR								
BROWSE FILE								
	DISCARD CHANGES	SAVE CHANGES	CLOSE					

Once you select which criteria you want to add, if the selection is a list, you will be presented with a list of choices.

- Make your selection from the drop-down menu
- Click "Add New"
- Type your entry (NOT case sensitive)
- If you want to add additional entries, click "Add New" and type additional entries
- Repeat as many times as necessary
- If the criteria

Advanced Panel Builder - Add / Edit Criteria Select the desired criteria below, then complete the steps prompted to define the criteria. For criteria requiring long list of definitions, use the interface below to upload a CSV or Excel for ease of entry and review Select Criteria Admit Date / Time + Add New Yesterday Or Today ad Submission Template Last 3 Days Last 7 Days վեղ Last 30 Days Before Date After Date Custom Date Start Date Drag & Drop to Upload File End Date OR Criteria Value BROWSE FILE SAVE CHANGES DISCARD CHANGES CLOSE

selection is not a predefined picklist, you will enter the definition list (what you would like to filter on – see screenshot below).



- If you have a long list of criteria, you may also Click "Download Submission Template", enter your multiple criteria (one per row), Save and then use the "Drag and Drop" or "BROWSE FILE" to upload your file. The Definition List will populate with the contents of your file. This feature is especially helpful if you have a list of diagnosis codes.
- Once you click "SAVE CHANGES". you will be brought back to the Advanced Panel Builder module.
- The default filter will be "IN" which means you want to look for an exact match on your criteria list.
- If you want to do "Contains" rather





To view the definitions, you have specified for your criteria, click "DEFINITION LIST" and the definitions will population on the right-hand side of the screen.

Name			Status Inactive		Selected Criteria
To rearrange the roster rules, simply drag an	d drop to the desired order.				
NOT	L <sub>3</sub>				
– Criteria: –				DELETE	
Facility		DEFINITION LIST			

- To Exclude values contained in the definition list, click "NOT" before you select your criteria.
- Criteria and operators can be rearranged by dragging and dropping them into the correct spot.