

Distributed Query Tool

Investigator Manual

Powered by PopMedNet™

Based on release 3.2

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The PopMedNet™ application was developed under the Agency for Healthcare Research and Quality, US Department of Health and Human Services as part of the Developing Evidence to Inform Decisions about Effectiveness (DEcIDE) program, awarded to the DEcIDE centers at the HMO Research Network Center for Education and Research on Therapeutics (HMORN CERT) and the University of Pennsylvania. The Food and Drug Administration's Mini-Sentinel project provided additional support.

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Document History

The following table is a revision history for this document.

Table 1: Document History

Version	Author(s)	Date	Description
3.1	Lincoln Peak Partners	11/15/2012	Created.
3.2	Jeff Brown, Elizabeth Balaconis, Megan Mazza, Melanie Davies	5/13/2013	New Build. This new documentation represents a new release of the PMN software. Prior Mini-Sentinel query tool documentation was based on release 2.3.24 and this documentation is based on PMN 3.2.0. New features include User Registration, Plug-in Architecture, Security Group Access Control, and Projects.

1 Introduction

The **PopMedNet™** software application enables simple, efficient creation and use of distributed data networks, through a set of tools and web-based services. It is optimized to facilitate distributed analyses of medical product safety, comparative effectiveness, quality, medical resource utilization, cost-effectiveness, and related studies. The system provides secure, customized private portals, query tools, and file transfer capabilities. It supports both menu driven queries and distributed analyses using complex, single use or multi-use programs designed to execute against a local data resource.

Data partners exercise full control over the files they make available for querying, the results returned to requestors, and the individuals who are permitted to submit queries.

This [Investigator Manual](#) describes the main features and functions for Investigators participating in a health data network powered by PopMedNet™ software. Investigators will primarily interact with the PopMedNet™ network through a secure web-based portal as described below. Different networks will have different types of queries and capabilities. PopMedNet™ software can customize and brand the network as desired.

The Department of Population Medicine at the Harvard Pilgrim Health Care Institute (HPHCI) led development of the system in collaboration with Lincoln Peak Partners (LPP). Lincoln Peak Partners provides support services and secure hosting for current system users, and leads development of system enhancements.

2 System Overview

The Distributed Query Tool software is comprised of two separate applications, the web-based **Portal** and the **DataMart Client**. There is one Portal in the network and each data partner has one or more “DataMarts”. The Portal is the starting point for all information requests and controls all system communications, security, and governance policies. Data Partners receive queries, process them, and securely return them to the Portal via their locally installed DataMart Client software application. Each Data Partner will have at least one DataMart; multiple DataMarts per Data Partner are possible. Each DataMart can contain different types of data and DataMarts can have different query processing settings. All query requests and communications within the network are securely routed from the Portal to the DataMarts and then back to the Portal.

Note: The term **DataMart** is used in an information technology context referring to the place where the data are held for querying. Use of this term does not imply that data partner information is being sold or being made broadly available; Data Partners maintain control of all their data and all uses.

Browser Requirements

The Portal is designed to work with Internet Explorer (IE) 8 or later. Earlier versions of IE may not display the user interface properly. Although IE8 is the only officially supported browser, other browsers such as Firefox and Chrome may also work; Firefox has been used extensively in testing.

The DataMart Client Application

The DataMart Client application allows the DataMart Administrator to view queries distributed to the DataMart, execute queries locally, review the results, and upload the results to the Portal. The DataMart Client is a .NET/C# Windows desktop application developed by LPP that is installed locally on an Administrator’s desktop. Note the DataMart Client requires Microsoft .NET 4 to be installed on the user’s desktop. The free download for Microsoft.NET4 is available at the following link: <http://www.microsoft.com/enus/download/details.aspx?id=17851>. All communications between the DataMart Client application and the Portal use HTTP/SSL/TLS connections to securely transfer queries and results between the application and the Portal. The application uses ODBC connections to the local DataMart databases used to process queries and generate results.

Audience

This manual is intended for PopMedNet™ Investigators who want to:

- Get started accessing the Distributed Query Tool
- Submit a query to the available DataMarts
- Monitor status of a query
- Review results of a query

Investigator Security Groups

Security Groups determine the rights that individual users have when using the Portal. There are three Investigator security groups that are available within the system.

Investigator: can submit requests to DataMarts that have given them or their organization permission to submit queries and view only aggregated request results.

Enhanced Investigator: can submit requests to DataMarts that have given them or their organization permission to submit queries and review their requests results. This role has the additional right to view disaggregated (site-specific) results.

Query Administrator: can approve requests before they are sent to DataMarts. This user has the rights of an Enhanced Investigator for sending and reviewing requests.

A user may be a member of one or more Security Groups thereby inheriting the rights of all the security groups.

Related Documents

For more information about the PopMedNet™ system, see one of the following documents available on the PopMedNet™ public website (popmednet.org):

PopMedNet™ Distributed Query Tool DataMart Administrator Manual

- The *DataMart Administrator Manual* describes the tasks and activities required to install and manage a DataMart. This includes:
- Setting up and configuring the physical environment -- consisting of Internet connectivity/desktop computer requirements, and system software
- Installing and performing initial administrative setup of a DataMart Client
- Managing the DataMart setting in the portal

PopMedNet™ Distributed Query Tool Overview and Administrator's Guide

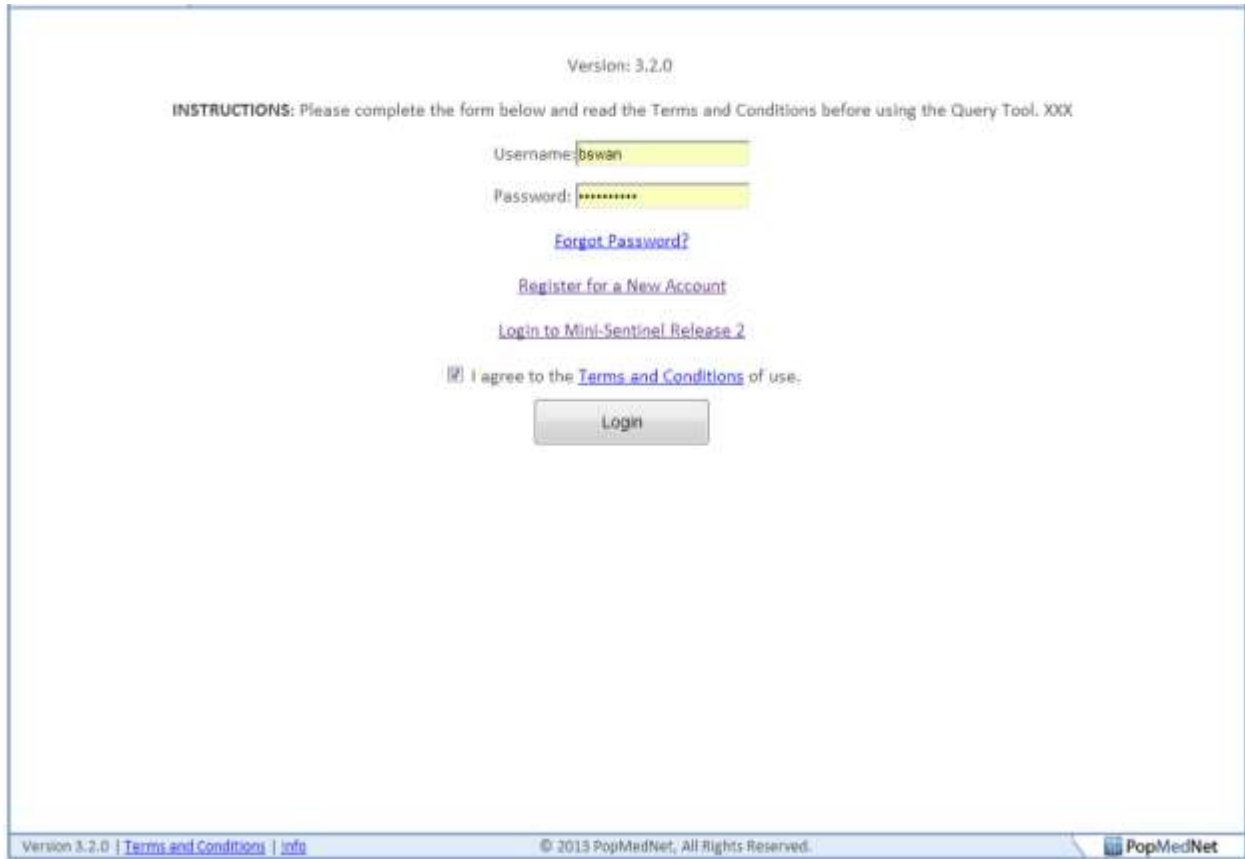
The *Overview and Administrator's Guide* describes the overall network system architecture, key querying features, and hosting and security details. This includes:

- System overview and workflow
- Policies and features
- Technical architecture and security
- Installing an instance of a Portal and an associated database
- Performing the initial administrative setup
- Performing typical System Administrator functions such as adding new users and DataMarts, creating new roles, and deleting users and DataMarts

Note: The descriptions below refer to a specific implementation using the PopMedNet™ software. Installations for other PopMedNet™- powered networks may have different query capabilities.

3 How to Login to the Web Portal

Before you can login to your Distributed Query Tool portal, you need to register for a new account. Once the Network Administrator or the PopMedNet™ support staff approves your credentials and assigns your security groups, you will receive an email notification. Once you have your Login Credentials, follow the steps below.



Version: 3.2.0

INSTRUCTIONS: Please complete the form below and read the Terms and Conditions before using the Query Tool. XXX

Username:

Password:

[Forgot Password?](#)

[Register for a New Account](#)

[Login to Mini-Sentinel Release 2](#)

☒ I agree to the [Terms and Conditions](#) of use.


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Figure 1: Logon Page

Use these steps to login to the portal:

- 1) Navigate to the PopMedNet™ custom website login page:
[Secure URL distributed by network coordinating center.]
- 2) Enter your Username and Password in the boxes.
- 3) If this is your first login, you will be prompted to read and acknowledge your agreement to the Terms and Conditions of use. If you have cookies enabled, you will not be prompted on subsequent logins.
- 4) Click the Login button to enter the Portal.

Once you have logged in, the portal displays the home page shown below. From the home page, you can view your notifications, view existing requests, and create a new request. This section tells you how to create a request, view its status and results.



What's New

Software Version 3.2.0 Features and Enhancements

- PopMedNet 3.2 Feature Enhancements:
 - Projects - Project based request processing and administration
- PopMedNet 3.1 Feature Enhancements:
 - User Workspaces - Built-in folders that allow requests to be automatically organized into sub-folders
 - Shared Folders - Allows users to share requests with other users.
 - Network Navigator - Visual tools network browser that allows the user to navigate through the network hierarchy.
 - Bread-crum Navigation Control - Control the maintains position within the network hierarchy providing context and allowing the user to easily back up through the hierarchy
 - Sticky User Settings - Remembers users settings, such as collapsible controls, the number of requests shown on the request page will be remember from session to session.
 - Auto DataMart Configuration - this will make it easier for datamart administrators to configure their datamart client. This feature streamlines the datamart client configuration process as it can be done from the portal.
 - User Registration - Allows users to register for an account by entering contact information, username, and password in addition to the traditional user creation process performed by Administrators.
 - User registration Workflow Process - User registration requests enter a task based workflow process used by Administrators to approve or reject user registrations via a new Task panel displayed on the home page.
- PopMedNet 3.0 ONC Query Health Enhancements:
 - Query Envelope - Formalization of the PMN request tunnel to comply with ONC Query Health requirements
 - Enhanced Security - Implementation of mutual authentication over TLS using X.509 certificates
 - I2B2 Request Plugin - Integration of I2B2 request composer that submits request to the PMN network that are routed to I2B2 end-points used to process the request
- MDPHnet Feature Enhancements:
 - Menu-driven query builder request plugin used to compose ICD-9 Diagnosis requests and Reportable Disease Requests submitted against ESP databases.
- PopMedNet 3.0 Design and Technical enhancements:
 - New Request Model Plug-in architecture allowing the application to be easily extended to accommodate new request types and data models.
 - Upgraded technology platform that includes Microsoft .NET 4, Entity Framework 4, MVC 3, WCF, and MEF under Visual Studio 2010 solution.
 - Consolidation of all request and response data into documents that may be displayed using built-in viewer or downloaded to for use by custom applications.
 - Redesigned/rewritten DataMart Client application that uses a simplified threading model to process requests.
 - Use of the Windows Credential Manager to store local DataMart Client credentials.

Notifications

Date	Event	Message
3/7/2013 1:08:42 PM	New Request Submitted	New request of type 'MFU: ICD-9 Procedures (3 digit codes)' has been submitted by OPS\bswan
3/7/2013 1:08:24 PM	New Request Submitted	New request of type 'MFU: HCPCS Procedures' has been submitted by OPS\bswan
3/7/2013 1:08:20 PM	Request Status Changed	Status of request Incl: ICD-9 Diagnoses (3 digit codes) - 2 for datamart OPS DataMart was changed from Submitted to Completed
3/7/2013 1:08:17 PM	Request Status Changed	Status of request MFU: Pharmacy Dispensings by Generic Name - 0 for datamart OPS DataMart was changed from Submitted to Completed
3/7/2013 1:08:03 PM	New Request Submitted	New request of type 'MFU: Pharmacy Dispensings by Drug Class' has been submitted by OPS\bswan
3/7/2013 1:07:46 PM	New Request Submitted	New request of type 'Prev: ICD-9 Diagnoses (3 digit codes)' has been submitted by OPS\bswan
3/7/2013 1:06:59 PM	New Request Submitted	New request of type 'MFU: Pharmacy Dispensings by Generic Name' has been submitted by OPS\bswan
3/7/2013 1:06:40 PM	New Request Submitted	New request of type 'Incl: ICD-9 Diagnoses (3 digit codes)' has been submitted by OPS\bswan
3/7/2013 1:03:03 PM	My Profile Updated	Profile of user 'OPS\bswan' has been updated by OPS\bswan
3/7/2013 1:02:43 PM	Request Status Changed	Status of request Incl: ICD-9 Diagnoses (3 digit codes) - 0 (Copy) for datamart OPS DataMart was changed from Submitted to Completed

Page: 1 2 3 4 5 6
Showing 10 notifications per page

Requests

Name	Id	Date	User	Status	Type	Project
MFU: ICD-9 Procedures (3 digit codes) - 0	12	03/07/2013 01:08 PM	bswan	Submitted	MFU: ICD-9 Procedures	Mini-Sentinel
MFU: HCPCS Procedures - 0	11	03/07/2013 01:08 PM	bswan	Submitted	MFU: HCPCS Procedures	Mini-Sentinel
MFU: Pharmacy Dispensings by Drug Class - 0	10	03/07/2013 01:08 PM	bswan	Submitted	MFU: Pharmacy Dispensings	Mini-Sentinel
Prev: ICD-9 Diagnoses (3 digit codes) - 0	9	03/07/2013 01:07 PM	bswan	Submitted	Prev: ICD-9 Diagnoses	Mini-Sentinel
MFU: Pharmacy Dispensings by Generic Name - 0	8	03/07/2013 01:06 PM	bswan	1/4 completed	MFU: Pharmacy Dispensings	Mini-Sentinel
Incl: ICD-9 Diagnoses (3 digit codes) - 2	7	03/07/2013 01:06 PM	bswan	1/4 completed	Incl: ICD-9 Diagnoses	Mini-Sentinel

Showing 20 requests per page
New

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Figure 2: Home Page

The home page is a landing page that contains a set of controls that provide the user with recent information that is relevant to his daily tasks.

The following controls are available on the home page:

- ✓ What's New message panel – used to communicate system wide information site upgrades, new features and functions
- ✓ Notifications – list of recent notifications on requests and responses performed or associated with the user
- ✓ Requests list – recent requests that have been initiated by the user or require the user's approval or review

Collapsible content panels are used throughout the user interface that allows the user to collapse, expand, and maximize the content panel within the page. Additionally, for panels that contain grid controls, the user may specify the number of items displayed in the grid, set column sort orders, and column filters. All these settings are preserved across user sessions.

Note: The term “Request” is used interchangeably with “Query”. With the introduction of PopMedNet Release 3, the application has the ability to compose and route a variety of queries, commands, and general *requests* to DataMarts through a “plugin” framework that allows the network to be easily extended to introduce new requests types.

4 Project Based Requests

One of the major enhancements in PMN v3.2 is the introduction of Projects. Projects allow networks to group activities within one or more Projects. A project establishes security policies for composing and executing requests for users and DataMarts assigned to the project. Projects are created within an organizational Group. Groups have one or more member organizations whose users and DataMarts may participate within projects owned by the group. Note that the network may have one or more groups, and an organization may be a member of one or more groups.

The following figure shows a Group detail page along with a Group and Organizational structure displayed in the PMN Network Browser control.

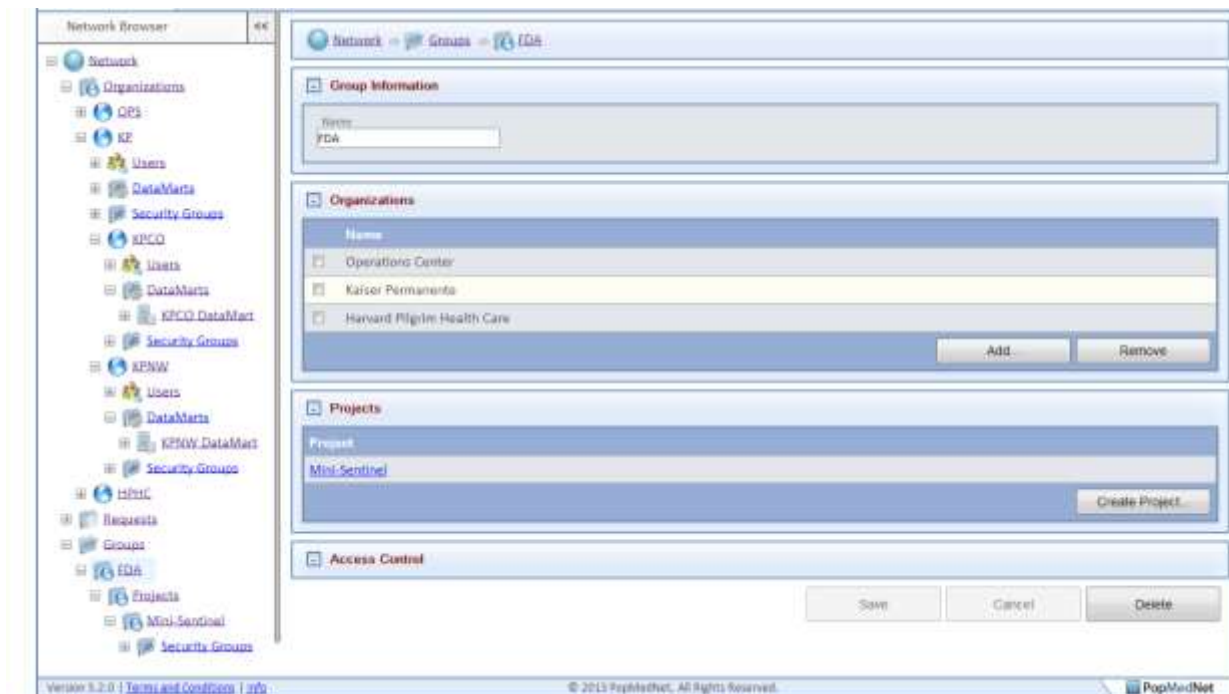


Figure 3: Group Page and Network Browser Control

In this sample network, there is a single Group called FDA that contains three member organizations and a single project called Mini-Sentinel. Only users and DataMarts defined in each of the member organizations, Operations Center, Harvard Pilgrim Health Care, and Kaiser Permanente including its sub-organizations, may participate in Mini-Sentinel project owned by the FDA group.

Network administrator or users, such as Group and Project administrators, who have rights to modify and administer the Groups, Organizations, and Projects may grant access to a project and configure its security policies. See the PopMedNet Overview and Administrator's Guide for more information.

Once a group is created and its member organizations are assigned to it, one or more projects may be created. The following figure shows a project detail page used to configure the security policies affecting users and DataMarts assigned to the project.

Network > Groups > FDA > Projects > Mini-Sentinel

Project Informations

Name:
 Acronym:
 Active: ☒ Allow to submit requests in this project

Start Date:
 End Date:
 Group:

Description:

Security Groups

Name	Kind
Administrators	Administrators
DataMartAdministrators	DataMartAdministrators
EnhancedInvestigators	EnhancedInvestigators
Everyone	Everyone
Investigators	Investigators
Observers	Observers
QueryAdministrators	QueryAdministrators

DataMarts

Name	Organization	
<input type="checkbox"/> OPS DataMart	Operations Center	[ACL]
<input type="checkbox"/> HPHC DataMart	Harvard Pilgrim Health Care	[ACL]
<input type="checkbox"/> KPCO DataMart	Kaiser Permanente Colorado	[ACL]
<input type="checkbox"/> KPNW DataMart	Kaiser Permanente Northwest	[ACL]

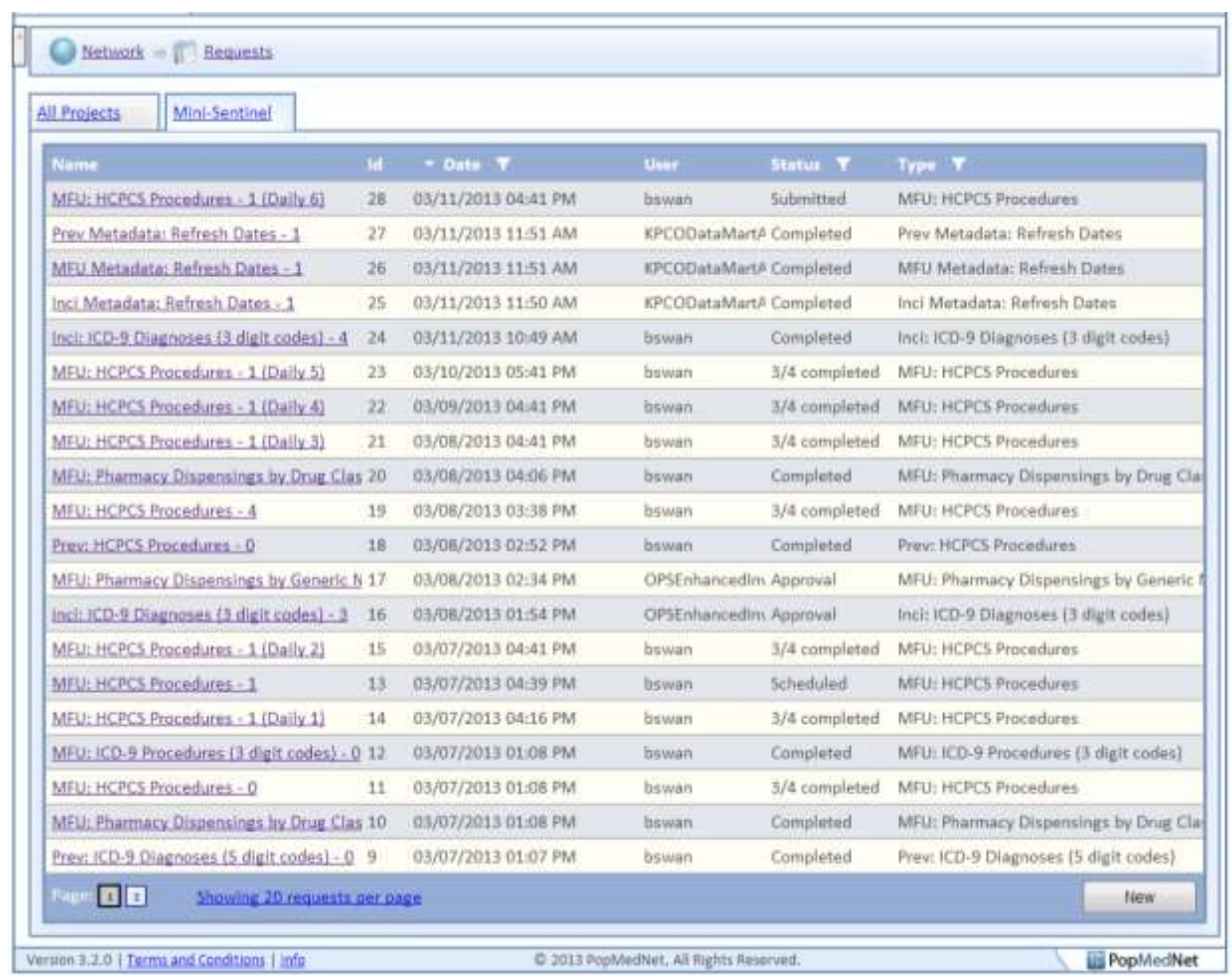
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Figure 4: Project Page

The Mini-Sentinel project may be configured to allow requests to be composed by users of the Operations Center, Kaiser Permanente, and its sub-organizations KP Northwest and KP Colorado, and Harvard Pilgrim Health Care. Additionally, review and approval policies may be defined on requests and their execution within the Mini-Sentinel project.

5 Submitting a Request

The Requests panel lists the queries that have been composed by the user. A full page dedicated to requests is available by clicking the Requests menu item at the top of the page. The following figure shows the Requests page with project tabs along the top of the page.



Name	Id	Date	User	Status	Type
MFU: HCPCS Procedures - 1 (Daily 6)	28	03/11/2013 04:41 PM	bswan	Submitted	MFU: HCPCS Procedures
Prev Metadata: Refresh Dates - 1	27	03/11/2013 11:51 AM	KPCODataMartA	Completed	Prev Metadata: Refresh Dates
MFU Metadata: Refresh Dates - 1	26	03/11/2013 11:51 AM	KPCODataMartA	Completed	MFU Metadata: Refresh Dates
Inci Metadata: Refresh Dates - 1	25	03/11/2013 11:50 AM	KPCODataMartA	Completed	Inci Metadata: Refresh Dates
Inci: ICD-9 Diagnoses (3 digit codes) - 4	24	03/11/2013 10:49 AM	bswan	Completed	Inci: ICD-9 Diagnoses (3 digit codes)
MFU: HCPCS Procedures - 1 (Daily 5)	23	03/10/2013 05:41 PM	bswan	3/4 completed	MFU: HCPCS Procedures
MFU: HCPCS Procedures - 1 (Daily 4)	22	03/09/2013 04:41 PM	bswan	3/4 completed	MFU: HCPCS Procedures
MFU: HCPCS Procedures - 1 (Daily 3)	21	03/08/2013 04:41 PM	bswan	3/4 completed	MFU: HCPCS Procedures
MFU: Pharmacy Dispensings by Drug Clas	20	03/08/2013 04:06 PM	bswan	Completed	MFU: Pharmacy Dispensings by Drug Clas
MFU: HCPCS Procedures - 4	19	03/08/2013 03:38 PM	bswan	3/4 completed	MFU: HCPCS Procedures
Prev: HCPCS Procedures - 0	18	03/08/2013 02:52 PM	bswan	Completed	Prev: HCPCS Procedures
MFU: Pharmacy Dispensings by Generic N	17	03/08/2013 02:34 PM	OPSEnhancedIm	Approval	MFU: Pharmacy Dispensings by Generic N
Inci: ICD-9 Diagnoses (3 digit codes) - 3	16	03/08/2013 01:54 PM	OPSEnhancedIm	Approval	Inci: ICD-9 Diagnoses (3 digit codes)
MFU: HCPCS Procedures - 1 (Daily 2)	15	03/07/2013 04:41 PM	bswan	3/4 completed	MFU: HCPCS Procedures
MFU: HCPCS Procedures - 1	13	03/07/2013 04:39 PM	bswan	Scheduled	MFU: HCPCS Procedures
MFU: HCPCS Procedures - 1 (Daily 1)	14	03/07/2013 04:16 PM	bswan	3/4 completed	MFU: HCPCS Procedures
MFU: ICD-9 Procedures (3 digit codes) - 0	12	03/07/2013 01:08 PM	bswan	Completed	MFU: ICD-9 Procedures (3 digit codes)
MFU: HCPCS Procedures - 0	11	03/07/2013 01:08 PM	bswan	3/4 completed	MFU: HCPCS Procedures
MFU: Pharmacy Dispensings by Drug Clas	10	03/07/2013 01:08 PM	bswan	Completed	MFU: Pharmacy Dispensings by Drug Clas
Prev: ICD-9 Diagnoses (5 digit codes) - 0	9	03/07/2013 01:07 PM	bswan	Completed	Prev: ICD-9 Diagnoses (5 digit codes)

Figure 5: Request Page

The Requests Page allows you to create menu-driven queries within a selected Project. The criteria that you can enter vary for each type. However, the basic steps are the same for all requests. Once you select a query type, the page shows a common header panel that identifies the request, a common footer panel that contains the DataMarts where the request will be routed, and a content panel in the middle that displays controls used to enter criteria settings for the particular request type.

Procedure

Follow these basic steps to submit a request:

- 1) Click the “New” button in the request panel and choose the request category from the drop down menu.
- 2) Choose a request model and type from the drop down menu.
- 3) Enter a unique name for the request in the text box. This name should help you distinguish among your requests. Note that this field only appears after you select the request type.
- 4) Enter a brief description of the request and the reason for submitting this request, for example to assess the utilization of a medical product. This description is distributed along with the request and should be detailed enough to allow data partners to assess the reason for the query. This step also displays your email address. To update your email address, navigate to your **Profile** by clicking the Profile menu item at the top of the page. You must use a business email address, not a personal account.
- 5) Specify the project for the request. Note the project will default to the project selected in the project tab control at the top of the Requests page. If the request was initiated from the home page, the project will need to be assigned manually.
- 6) Specify the request specific criteria and settings for the request type.
- 7) The available DataMarts that you have rights to route the request to will be listed in the DataMart Routing panel at the bottom of the request page. Select one or more of the DataMarts to execute the request.
- 8) Click the Submit button to submit the query. The request goes out to all the DataMarts that you have selected. You may click the Save button to save the request to a Draft status to be re-opened later and resume composing the request before submitting it.

5.1 Scheduling Requests

Requests may be scheduled to run in the future rather than immediately when the user clicks Submit by specifying the “Run Mode” on the request detail page.

Network > Requests > MFU: HCPCS Procedures - 10

Request

MFU: HCPCS Procedures
Five-digit HCPCS (CPT-4) procedure codes stratified by age group, sex, year, and location of service.

Name: MFU: HCPCS Procedures - 10 Priority: Normal Due Date: Purpose of use: <not specified>

Level of PH Disclosure: <not specified> Project: [Mini-Sentinel \(x\)](#)

Description:

Activity: <None> Activity Description:

Run Mode

☐ Run Immediately After I Click "Submit"

☒ **Schedule to Run Later** [\[Set Schedule...\]](#)

Metric Type
Events

Output Criteria
Output the top X by age group, sex. For example, selecting 20 will output the 20 most frequent occurrences identified in the specific table.
<not specified>

Setting
<not specified>

Age Stratification
10 Stratifications (0-1, 2-4, 5-9, 1)

Sex Stratification
Male and Female

Observation Period Selector
Quarterly data not available.
Start Period: End Period:

DataMart Routing

Please select DataMarts to which this query will be sent:

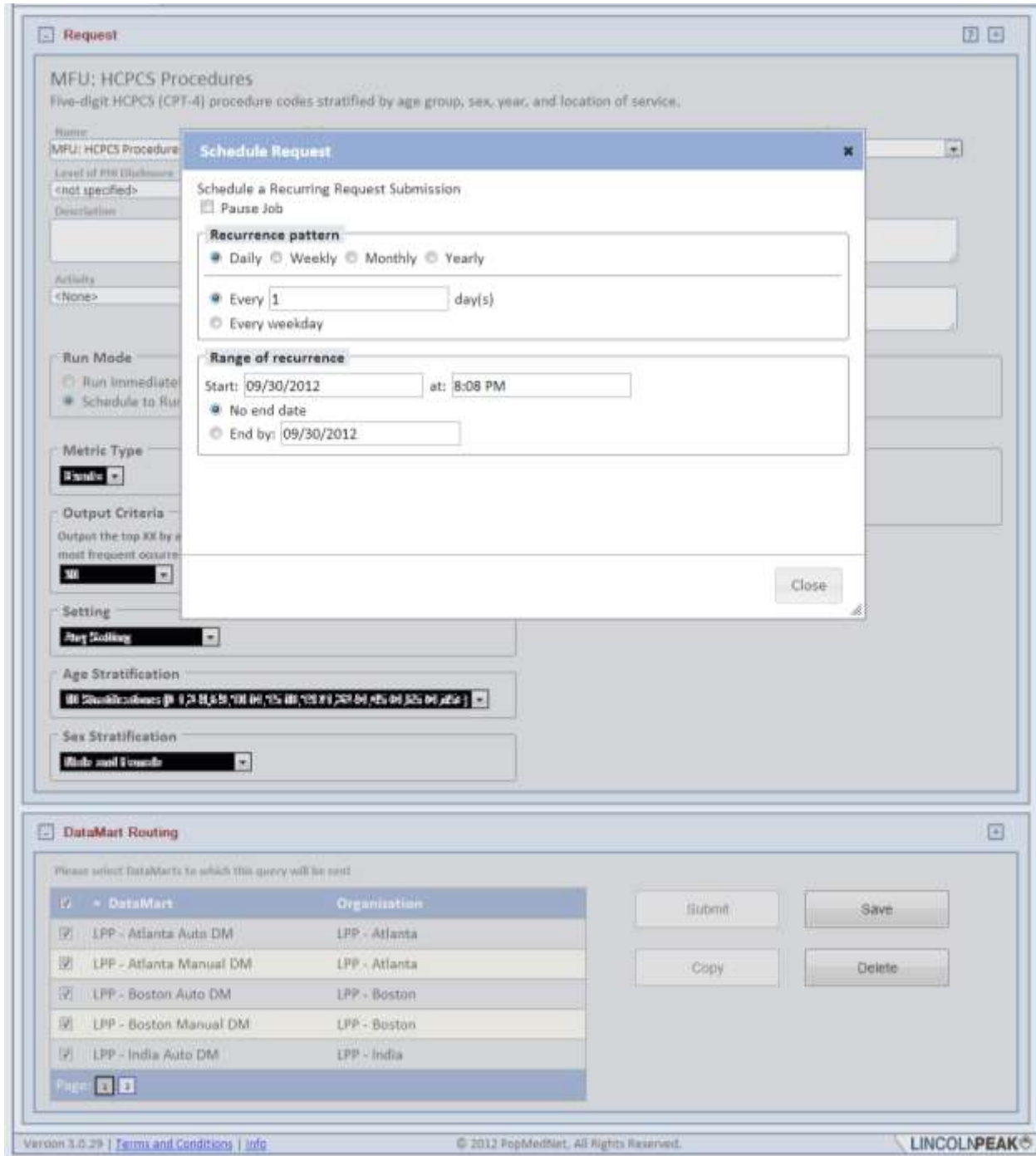
<input checked="" type="checkbox"/>	DataMart	Organization
<input checked="" type="checkbox"/>	HPHC DataMart	Harvard Pilgrim Health Care
<input checked="" type="checkbox"/>	KPCO DataMart	Kaiser Permanente Colorado
<input checked="" type="checkbox"/>	KPNW DataMart	Kaiser Permanente Northwest
<input checked="" type="checkbox"/>	OPS DataMart	Operations Center

Submit Save Copy

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Figure 6: Request Composer Page - Scheduler Function

To schedule a request, click the “Schedule to Run Later” radio button in the Run Mode group on the request detail page. This will display a “Set Schedule” link that will display a popup dialog box that provides in interface to choose a recurrence pattern and date range to run the request.



Request

MFU: HCPCS Procedures
Five-digit HCPCS (CPT-4) procedure codes stratified by age group, sex, year, and location of service.

Name: MFU: HCPCS Procedures

Level of PH Disclosure: <not specified>

Description:

Activity: <None>

Run Mode: ☐ Run immediately ☒ Schedule to Run

Metric Type: **Stable**

Output Criteria: Output the top XX by most frequent occurrence: **10**

Setting: **Any Coding**

Age Stratification: **All Stratifications: 0 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 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99**

Sex Stratification: **Male and Female**

Schedule Request

Schedule a Recurring Request Submission

☐ Pause Job

Recurrence pattern

☒ Daily ☐ Weekly ☐ Monthly ☐ Yearly

☒ Every 1 day(s)

☐ Every weekday

Range of recurrence

Start: 09/30/2012 at: 8:08 PM

☒ No end date

☐ End by: 09/30/2012

Close

DataMart Routing

Please select DataMarts to which this query will be sent

<input checked="" type="checkbox"/>	DataMart	Organization
<input checked="" type="checkbox"/>	LPP - Atlanta Auto DM	LPP - Atlanta
<input checked="" type="checkbox"/>	LPP - Atlanta Manual DM	LPP - Atlanta
<input checked="" type="checkbox"/>	LPP - Boston Auto DM	LPP - Boston
<input checked="" type="checkbox"/>	LPP - Boston Manual DM	LPP - Boston
<input checked="" type="checkbox"/>	LPP - India Auto DM	LPP - India

Page: 1 1

Submit Save Copy Delete

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Figure 7: Schedule Request Dialog

Once the schedule is set and the request saved, the request is now scheduled to run based on the settings you've entered. You'll notice that the request status goes to "Scheduled". When the date/time comes to run the request, a copy of the request is made and submitted to the DataMarts that were selected in the base request with its name modified to reflect the scheduled copy (e.g.

BaseRequestName_Weekly_1). Once submitted, the request behaves like any other request that was submitted.

This request's schedule may be adjusted by opening the base request, modifying the request or schedule, and re-saving it. A request can be unscheduled by changing the Run Mode to "Run immediately" and saving the request. This will place the request into a Draft mode.

6 Request Types

The system currently supports a number of request types:

- ✓ Menu-driven queries that execute against Summary Table databases
- ✓ Menu-driven queries that execute against ESP databases
- ✓ File distribution queries used to exchange documents between the portal and DataMarts
- ✓ SQL distribution queries use to distribute raw SQL between the portal and DataMarts
- ✓ Queries composed from a number of external applications, such as I2B2, that uses a native interface to compose a query and submit it to a PopMedNet network

6.1 Summary Queries

PopMedNet™ software currently supports querying against summary tables. The structure of the currently supported tables is described in separate documentation. Briefly, these tables provide summary counts of individuals by period, age group, and sex. The summary counts include information on medication use (e.g., number of dispensings, users, and days supplied), diagnoses (e.g., number of individuals with the diagnosis), procedures, and the overall data partner population.

The summary queries are grouped into three request models as follows:

Table 2: Summary Table Request Models and Types

Request Model	Request Type
Prevalence	ICD-9 Diagnosis (3 digit codes)
	ICD-9 Diagnosis (4 digit codes)
	ICD-9 Diagnosis (5 digit codes)
	ICD-9 Procedures (3 digit codes)
	ICD-9 Procedures (4 digit codes)
	Enrollment
	HCPHCS Procedures
	Pharmacy Dispensings by Drug Class
	Pharmacy Dispensings by Generic Name
	Dispensings by National Drug Code

Request Model	Request Type
Incidence	ICD-9 Diagnosis (3 digit codes)
	Pharmacy Dispensings by Drug Class
	Pharmacy Dispensings by Generic Name
Most Frequently Used	HCPCS Procedures
	ICD-9 Diagnosis (3 digit codes)
	ICD-9 Diagnosis (4 digit codes)
	ICD-9 Diagnosis (5 digit codes)
	ICD-9 Procedures (3 digit codes)
	ICD-9 Procedures (4 digit codes)
	Pharmacy Dispensings by Drug Class
	Pharmacy Dispensings by Generic Name
Administrative	Refresh Dates

6.1.1 Prevalence Queries

The Prevalence query types are based on the Prevalence summary tables. The summary tables are created through distributed SAS code written by the Mini-Sentinel Operations Center and executed against the Mini-Sentinel Distributed Database held by each data partner. The Prevalence summary tables represent prevalence counts of diagnoses, procedures, and drug utilization.

Choose Request Type

Please choose a model, then click a request type to create a request

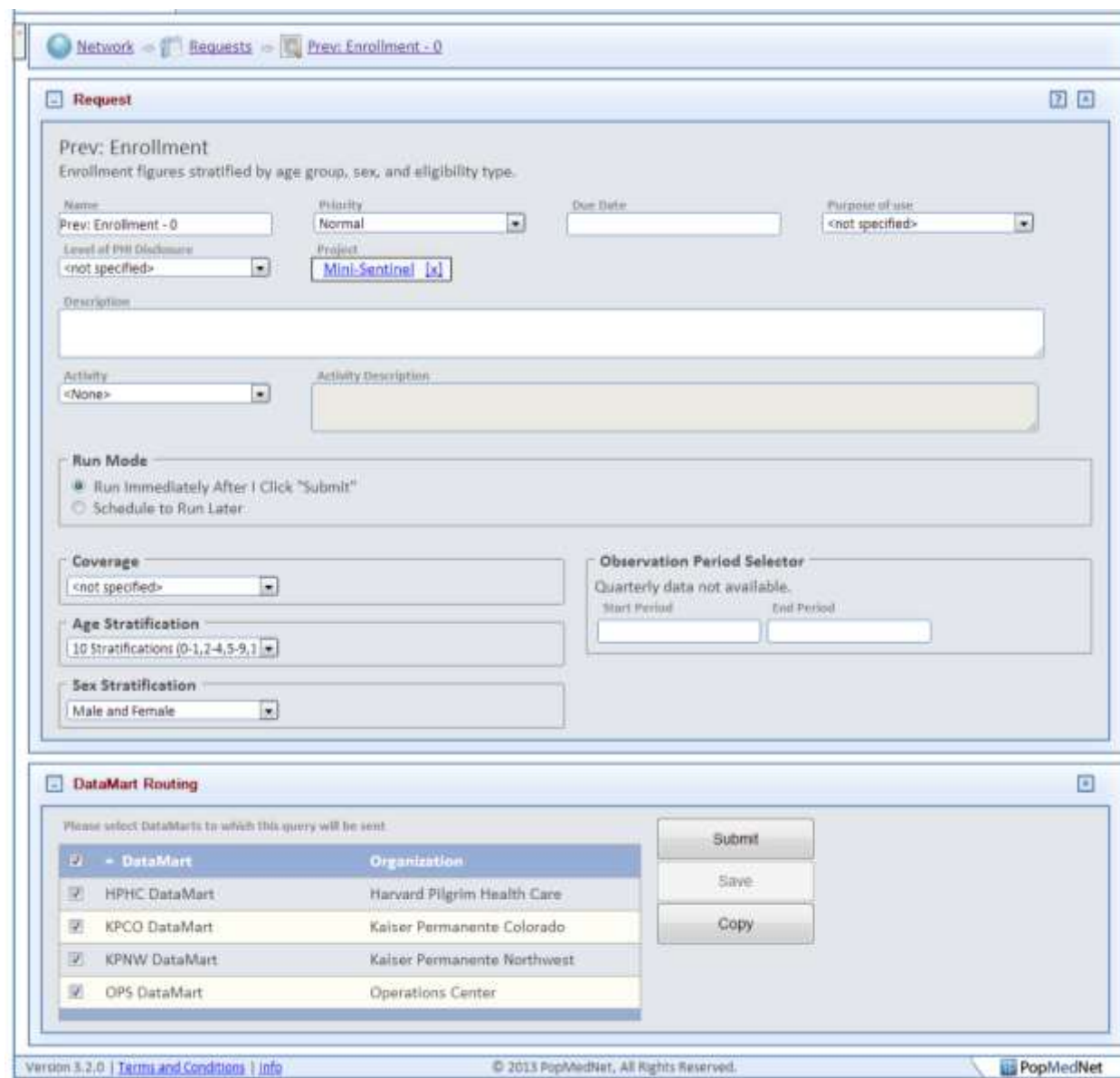
Summary: Prevalence Queries

[Prev Metadata: Refresh Dates](#)
[Prev: Enrollment](#)
[Prev: HCPCS Procedures](#)
[Prev: ICD-9 Diagnoses \(3 digit codes\)](#)
[Prev: ICD-9 Diagnoses \(4 digit codes\)](#)
[Prev: ICD-9 Diagnoses \(5 digit codes\)](#)
[Prev: ICD-9 Procedures \(3 digit codes\)](#)
[Prev: ICD-9 Procedures \(4 digit codes\)](#)
[Prev: Pharmacy Dispensings by Drug Class](#)
[Prev: Pharmacy Dispensings by Generic Name](#)

Cancel

Figure 8: Request Type Dialog for Summary Queries

This will display a request detail page used to enter the criteria for this type of request. The following figure shows a Prevalence Enrollment query.



Request

Prev: Enrollment
Enrollment figures stratified by age group, sex, and eligibility type.

Name: Priority: Due Date: Purpose of use:

Level of PHI Disclosure: Project:

Description:

Activity: Activity Description:

Run Mode

☒ Run Immediately After I Click "Submit"

☐ Schedule to Run Later:

Coverage

Age Stratification

Sex Stratification

Observation Period Selector

Quarterly data not available.

Start Period: End Period:

DataMart Routing

Please select DataMarts to which this query will be sent

DataMart	Organization
<input checked="" type="checkbox"/> HPHC DataMart	Harvard Pilgrim Health Care
<input checked="" type="checkbox"/> KPCO DataMart	Kaiser Permanente Colorado
<input checked="" type="checkbox"/> KPNW DataMart	Kaiser Permanente Northwest
<input checked="" type="checkbox"/> OPS DataMart	Operations Center

Submit Save Copy

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Figure 9: Summary Query Request Composer Page

6.1.1.1 Enrollment Queries

The Enrollment query provides a count of unique individuals who are members/patients during the period. The count is stratified by age group, sex, year, drug coverage status and medical coverage status. The member counts and days covered in the enrollment table can be used as denominators to calculate crude prevalence rates for Prevalence, Incidence, and Most Frequent Utilization query types. See Section 8.1=Calculated Rates Columns for more details.

To compose an Enrollment query, click on the “New” button in the request panel, choose “Summary: Prevalence Queries”, and then choose the “Enrollment” request type.

Enter the following criteria for an Enrollment query:

Table 3: Enrollment Query Criteria

Control	Description
Coverage	<p>Select one of the coverage types that this query is based upon:</p> <p>Drug and Medical Coverage</p> <p>Drug Coverage Only</p> <p>Medical Coverage Only</p> <p>All Members (which represents a the union of previous 3 coverage types)</p>
Age Stratification	Select the required age stratification from the drop down menu.
Sex Stratification	Select a sex grouping from the drop down menu to specify the sex stratification for your results (female only, male only, male and female, or male and female aggregated).
Period	Select one or more years. Enter the start year and ending year for period range.
DataMarts	Select the DataMarts to submit your query to. Only the DataMarts for which you have rights to route your request to are displayed.

6.1.1.2 Prevalence Diagnosis and Procedure Queries

Enter the following criteria for a given diagnosis (ICD9 3-, 4-, or 5- digit) or procedure (ICD9 3- or 4-digit, or HCPCS) query. The steps in the query are the same for these query types. However, you may not make requests across query types. For example, you may not include codes for ICD9 3-digit and 5-digit diagnosis in the same query.

Enter the following criteria for Diagnosis and Procedures query:

Table 4: Diagnosis and Procedures Query Criteria

Control	Description
Code Selection	<p>You can choose up to 25 codes to view in one query.</p> <p>There are two ways to select the codes:</p> <ul style="list-style-type: none"> • Search by text string or code; search using wildcards “*” is available. • Choose a category and select from a list. The list shows code and name. Click on the column header to sort by code or by name. <p>Click on Add Codes to add the selected codes to the list and display the list. The code set used for the specifications for HCPCS, ICD-9 Diagnosis (3, 4 and 5 digit) and ICD-9 Procedure (3 and 4 digit) query types are provided by Ingenix, Inc.</p>
Setting	Select the care setting for the query: inpatient, outpatient (ambulatory), emergency department, or any setting
Age Stratification	Select the required age stratification from the drop down menu.
Sex Stratification	Select a sex grouping from the drop down menu to specify the sex stratification for your results (female only, male only, male and female, or male and female aggregated).
Period	Select one or more years. Enter the start year and ending year for period range.
DataMarts	Select the DataMarts to submit your query to. Only the DataMarts for which you have rights to route your request to are displayed.

6.1.1.3 Prevalence Drug Queries

Enter the following criteria for a given drug (Pharmacy Dispensings by Drug Category or Generic Name) query. The steps in the query are the same for these query types. However, you may not make requests across query types. For example, you may not include drugs by class and generic name in the same query.

Enter the following criteria for a drug query:

Table 5: Drug Query Criteria

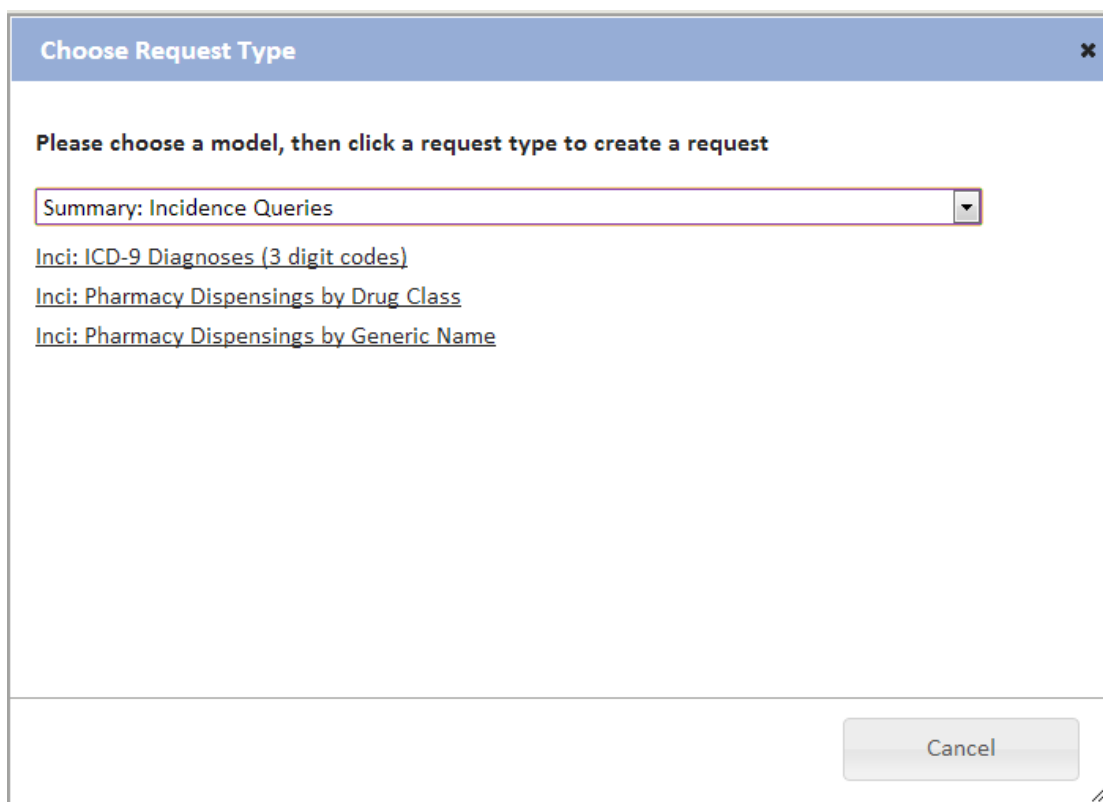
Control	Description
Drug Selection	<p>You can choose up to 25 drugs per query. Note: First DataBank was used to map National Drug Codes to the Generic Name list. There are two ways to select the drugs:</p> <ul style="list-style-type: none"> • Search by text string or code; search using wildcards “*” is available. • Choose a category and select from a list. <p>Click on Add Codes to add the selected drugs to the list and display the list.</p>
Age Stratification	Select the required age stratification from the drop down menu.
Sex Stratification	Select a sex grouping from the drop down menu to specify the sex stratification for your results (female only, male only, male and female, or male and female aggregated).
Period Type	Select the period type: Quarterly or Yearly.
Period	Select one or more years. Enter the start year and ending year for period range.
DataMarts	Select the DataMarts to submit your query to. Only the DataMarts for which you have rights to route your request to are displayed.

6.1.2 Incidence Queries

Incidence queries are based on the Incidence summary tables. The summary tables are created through distributed SAS code written by the Mini-Sentinel Operations Center and executed against the Mini-Sentinel Distributed Database held by each data partner. These tables represent incidence counts of diagnoses and drug utilization. The new tables can be incorporated into the query tool through a Refresh Dates query with the Incidence query types checked.

Incidence is defined as a member with an encounter with the diagnosis of interest (*i.e.*, the index date), in the care setting of interest, in the year of interest with no evidence of that diagnosis in the 90, 180 and 270 days (*i.e.*, the look back periods) before the index date in **any care setting**. Both medical and drug coverage are required during the 3 possible look back periods, allowing for eligibility gaps of ≤45 days. In addition, the tables also report number of encounters in the care setting of interest with that diagnosis in the 90, 180, 270 days after the index date (including the index event). Only the first incident event/index date within each year is considered.

The Prevalence and Incidence query types follow the same format. For query formats of Incidence Query Types, see the corresponding Prevalence section



Choose Request Type

Please choose a model, then click a request type to create a request

Summary: Incidence Queries

[Inci: ICD-9 Diagnoses \(3 digit codes\)](#)

[Inci: Pharmacy Dispensings by Drug Class](#)

[Inci: Pharmacy Dispensings by Generic Name](#)

Cancel

Figure 10: Request Type Dialog for Incidence Queries

6.1.3 Most Frequently Used Queries

The Most Frequent Utilization feature allows investigators to query the top XX events and members within a specified query type (drugs, diagnoses, or procedures) within the prevalence tables.

The counts are stratified by age group, sex, year, code/drug name or class, and for diagnoses and procedures, setting of visit (inpatient, outpatient, emergency department, or any).

To compose a most frequently used query, click on the “New” button in the request panel, choose “Most Frequently Used Queries”, and then choose a request type.

Choose Request Type

Please choose a model, then click a request type to create a request

Summary: Most Frequently Used Queries

- [MFU Metadata: Refresh Dates](#)
- [MFU: HCPCS Procedures](#)
- [MFU: ICD-9 Diagnoses \(3 digit codes\)](#)
- [MFU: ICD-9 Diagnoses \(4 digit codes\)](#)
- [MFU: ICD-9 Diagnoses \(5 digit codes\)](#)
- [MFU: ICD-9 Procedures \(3 digit codes\)](#)
- [MFU: ICD-9 Procedures \(4 digit codes\)](#)
- [MFU: Pharmacy Dispensings by Drug Class](#)
- [MFU: Pharmacy Dispensings by Generic Name](#)

Cancel

Figure 11: Request Type Dialog for Most Frequently Used Queries

This will display a request detail page used to enter the criteria for this type of request.

Network > Requests > MFU: HCPCS Procedures - 10

Request

MFU: HCPCS Procedures
Five-digit HCPCS (CPT-4) procedure codes stratified by age group, sex, year, and location of service.

Name: MFU: HCPCS Procedures - 10 Priority: Normal Due Date: Purpose of use: <not specified>

Level of PHI Disclosure: <not specified> Project: [Mini-Sentinel](#) [x]

Description:

Activity: <None> Activity Description:

Run Mode

☒ Run Immediately After I Click "Submit"

☐ Schedule to Run Later

Metric Type

Events

Output Criteria

Output the top XX by age group, sex. For example, selecting 20 will output the 20 most frequent occurrences identified in the specific table.

<not specified>

Setting

<not specified>

Age Stratification

10 Stratifications (0-1,2-4,5-9,1)

Sex Stratification

Male and Female

Observation Period Selector

Quarterly data not available.

Start Period: End Period:

DataMart Routing

Please select DataMarts to which this query will be sent

<input checked="" type="checkbox"/>	DataMart	Organization
<input checked="" type="checkbox"/>	HPHC DataMart	Harvard Pilgrim Health Care
<input checked="" type="checkbox"/>	KPCO DataMart	Kaiser Permanente Colorado
<input checked="" type="checkbox"/>	KPNW DataMart	Kaiser Permanente Northwest
<input checked="" type="checkbox"/>	OPS DataMart	Operations Center

Submit Save Copy

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Figure 12: Most Frequently Used Query Request Composer Page

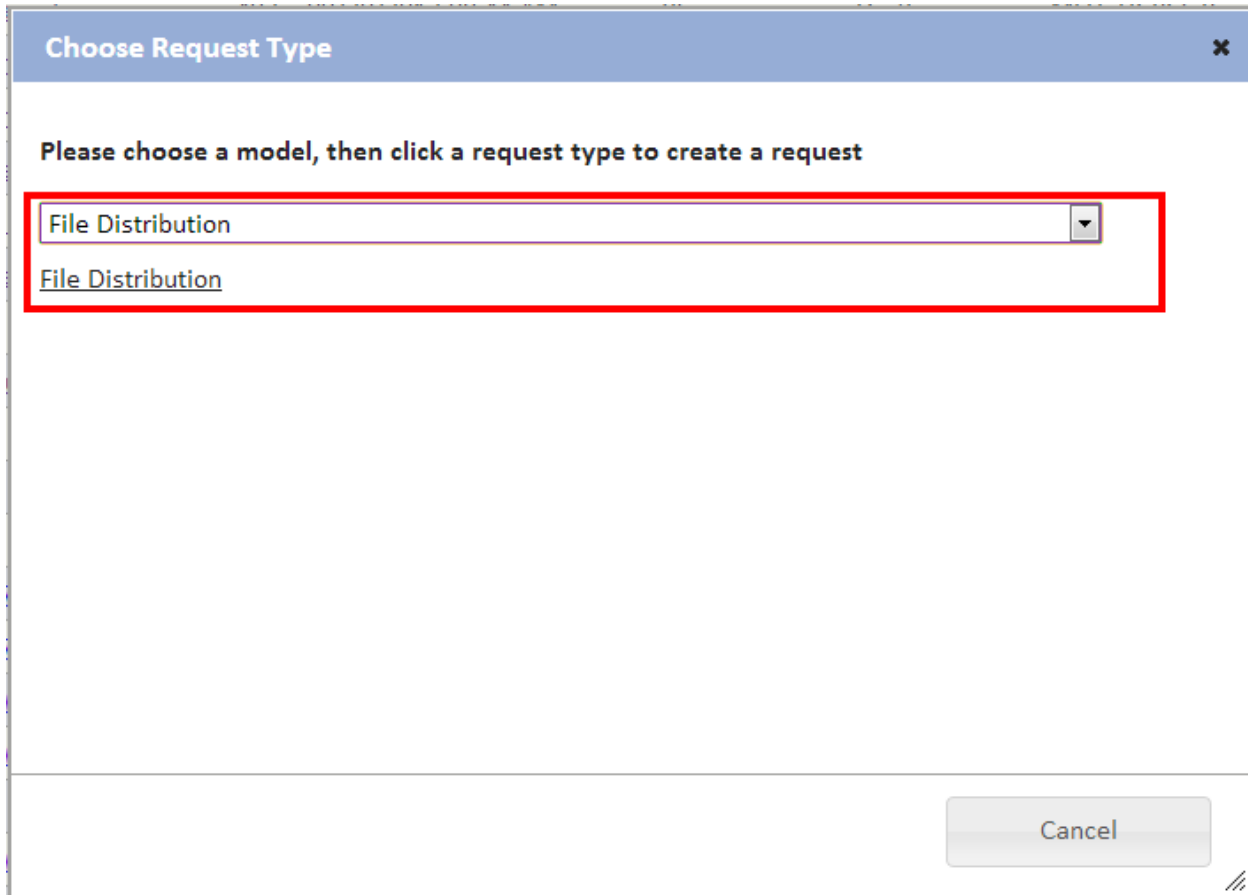
Enter the following criteria for a Most Frequently Used query:

Table 6: Most Frequently Used Query Criteria

Control	Description
Metric Type	Select from one of two metric types: <ul style="list-style-type: none"> • Events • Users
Output Criteria	Select the criteria ranking value to stratify the output from the list. For example, selecting 20 will output the 20 most frequent occurrences identified in the specific table
Setting	Select the care setting for the query: inpatient, outpatient (ambulatory), emergency department, or any setting.
Age Stratification	Select the required age stratification from the drop down menu.
Sex Stratification	Select a sex grouping from the drop down menu to specify the sex stratification for your results (female only, male only, male and female, or male and female aggregated).
Period	Select a period.
DataMarts	Select the DataMarts to submit your query to. Only the DataMarts for which you have rights to route your request to are displayed.

6.2 File Distribution

The File Distribution plug-in allows you to distribute any type of file to the network DataMarts. You can upload files for distribution to a selected DataMart. You create a File Distribution query by selecting the File Distribution model and then the File Distribution request type.



Choose Request Type [X]

Please choose a model, then click a request type to create a request

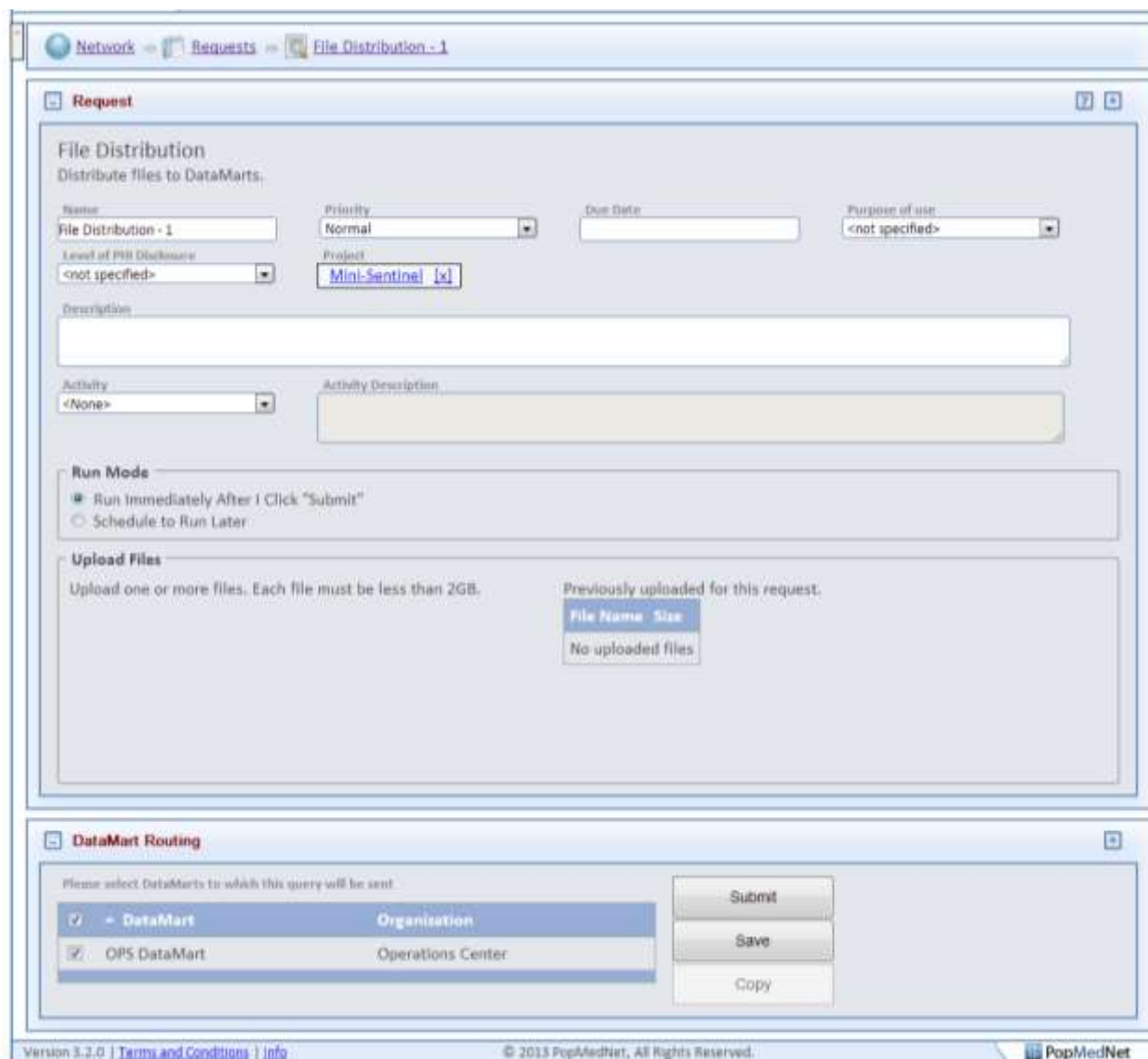
File Distribution [v]

File Distribution

Cancel

Figure 13: Request Type Dialog for File Distribution

This navigates you to a form to select the files you wish to send to DataMarts.



Request

File Distribution
Distribute files to DataMarts.

Name: File Distribution - 1
Priority: Normal
Due Date:
Purpose of use: <not specified>
Level of PHI Disclosure: <not specified>
Project: Mini-Sentinel [x]
Description:
Activity: <None>
Activity Description:
Run Mode:
☒ Run Immediately After I Click "Submit"
☐ Schedule to Run Later
Upload Files:
Upload one or more files. Each file must be less than 2GB.
Previously uploaded for this request.
File Name Size
No uploaded files
DataMart Routing:
Please select DataMarts to which this query will be sent.
Submit
Save
Copy

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Figure 14: File Distribution Request Composer Page

Use these steps to upload a file to selected DataMarts:

- 1) Enter a unique query name.
- 2) Enter a brief description of the query.
- 3) Click the Browse button to select a file.
- 4) After you select each file, click the Upload button.
- 5) Once you have selected the desired file(s), click the Submit button.

6.3 SQL Distribution

The SQL Distribution plug-in is very similar to the file distribution plug-in as it allows you to distribute raw SQL from the portal to the network DataMarts. You create a SQL Distribution query by selecting the SQL Distribution model and then the SQL Distribution request type.

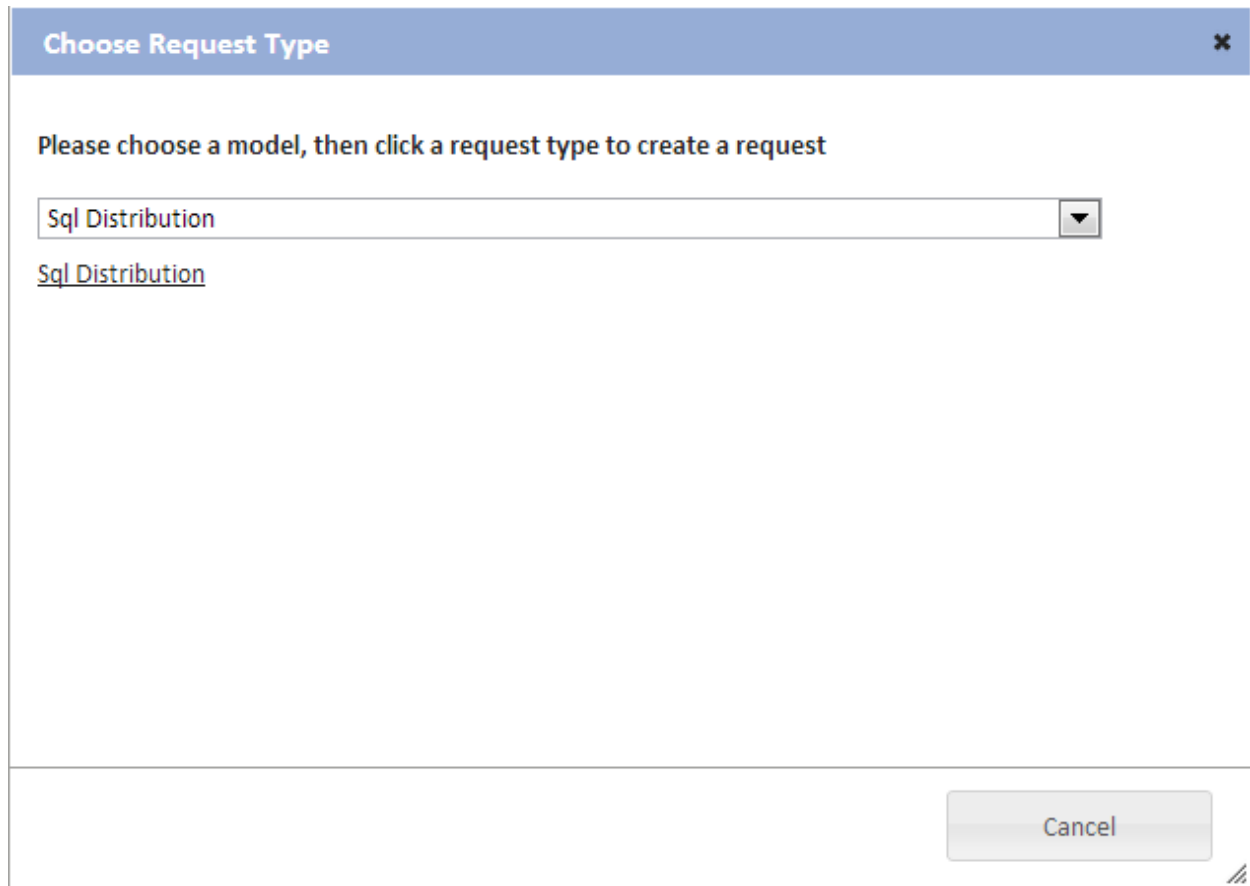
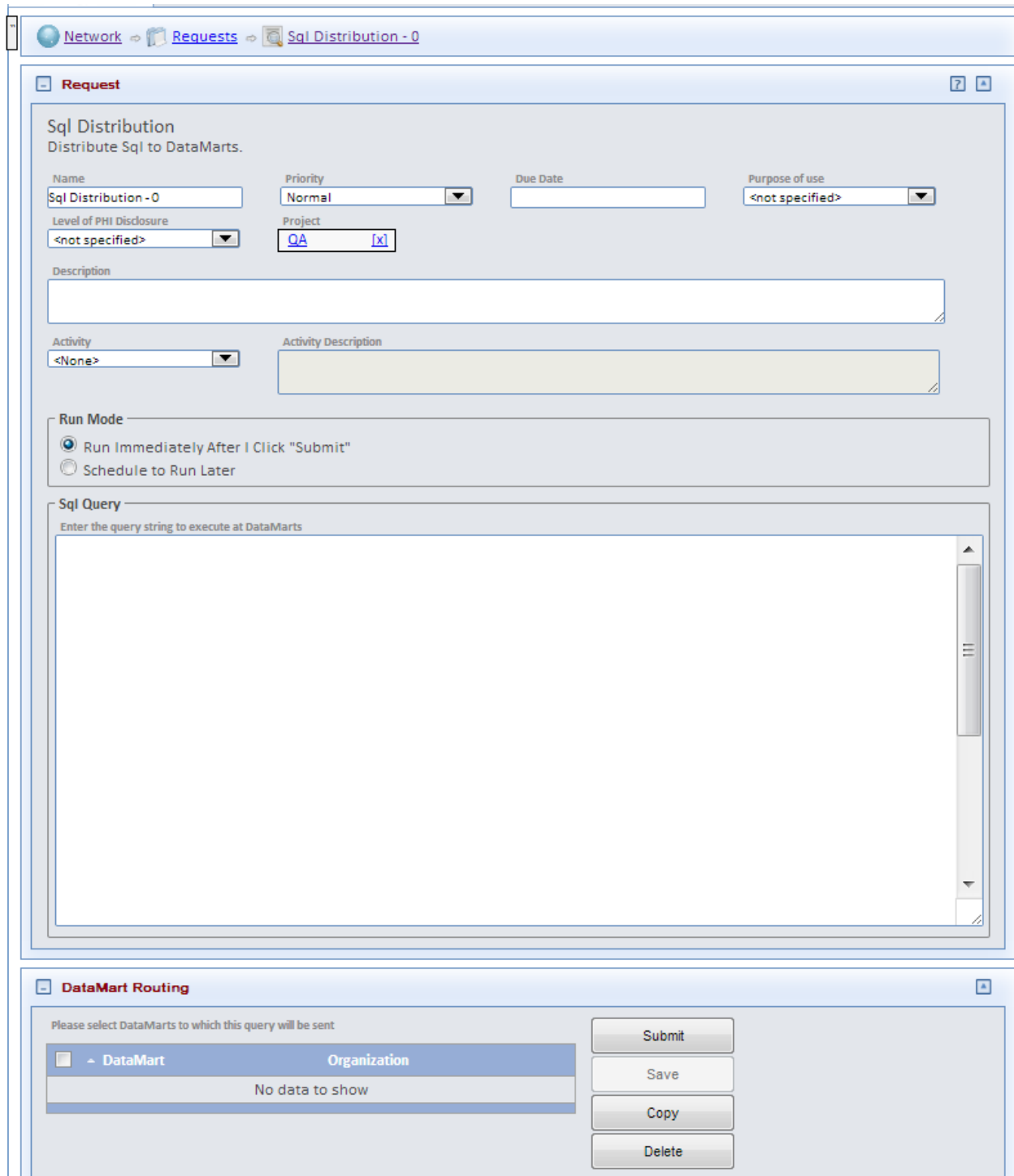


Figure 15: Request Type Dialog for SQL Distribution

This navigates you to a form where you send the SQL to selected DataMarts.



Request

Sql Distribution
Distribute Sql to DataMarts.

Name: Priority: Due Date: Purpose of use:

Level of PHI Disclosure: Project:

Description:

Activity: Activity Description:

Run Mode

☒ Run Immediately After I Click "Submit"

☐ Schedule to Run Later

Sql Query

Enter the query string to execute at DataMarts

DataMart Routing

Please select DataMarts to which this query will be sent

<input type="checkbox"/>	DataMart	Organization
No data to show		

Submit Save Copy Delete

Figure 16: SQL Distribution Request Composer Page

Use these steps to distribute SQL to selected DataMarts:

- 1) Enter a unique query name.
- 2) Enter a brief description of the query.
- 3) Manually paste the SQL query string into the SQL query section.
- 4) Once you have selected the appropriate DataMarts, click the Submit button.

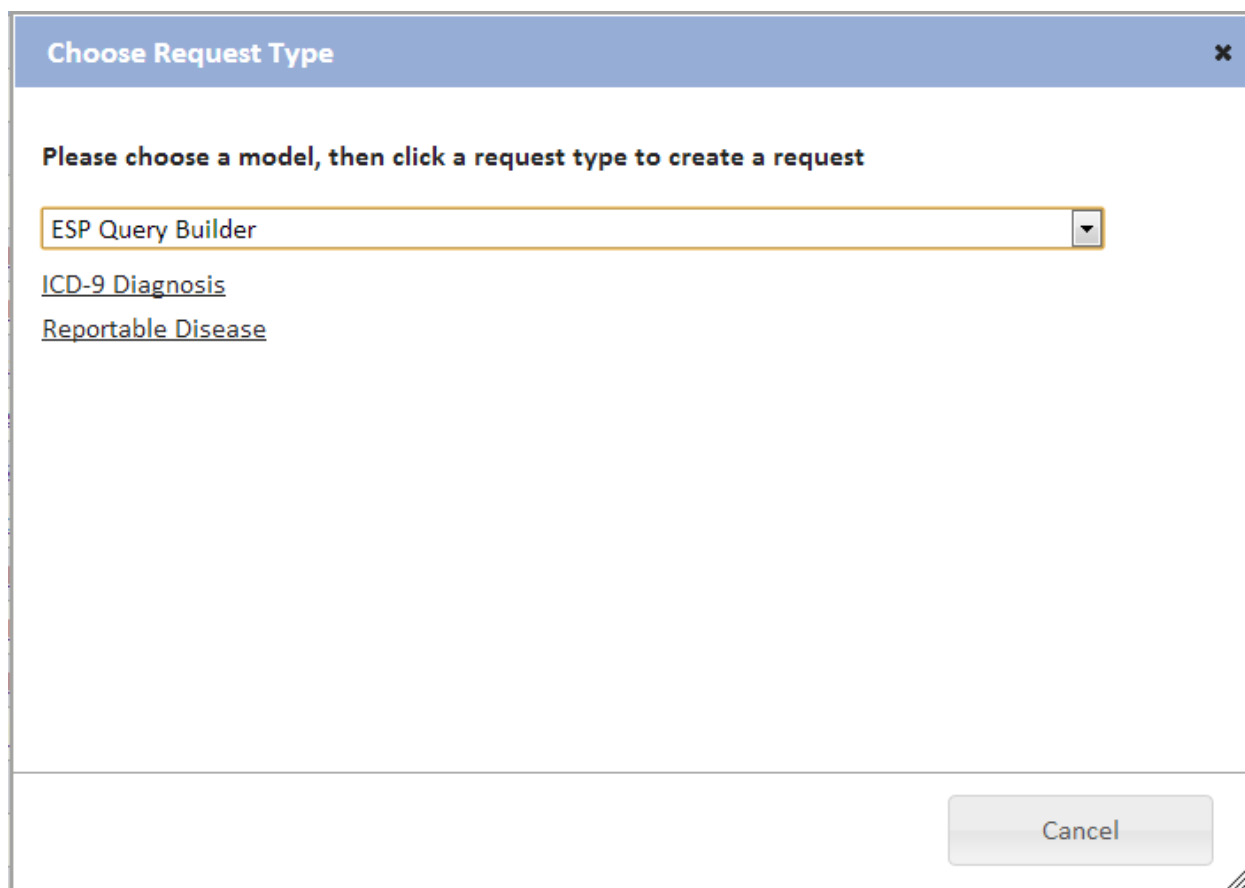
6.4 ESP Query Builder Queries

The *Electronic Support for Public Health* (ESP) Query Builder is a set of requests that operate against the ESP database. ESP uses a set of complex algorithms to identify selected diseases of public health concern such as acute hepatitis B, Lyme disease, influenza-like illness, and diabetes. The ESP algorithms are based on the ESP data model that is a standardize representation of EHR-based encounter and patient demographic information. The ESP platform enables automated extraction of data from EHRs into a format suitable for disease surveillance activities. ESP is installed behind the provider's firewall, giving the provider control access over access and use of their data.

The requests supported by ESP Query Builder are:

- ✓ ICD-9 Diagnosis – used to build ad-hoc custom health measure queries based on ICD-9 3-digit, 4-digit, and 5 digit diagnosis codes that produce reports stratified by ICD-9 code, period, gender, race, and age range.
- ✓ Reportable Diseases – used to select one of a list of reportable disease reports that are produced periodically on the ESP servers stratified by period, gender, race, and age range.

The following sections describe how you can create these request types.



Choose Request Type X

Please choose a model, then click a request type to create a request

ESP Query Builder ▼

[ICD-9 Diagnosis](#)

[Reportable Disease](#)

Cancel

Figure 17: Request Type Dialog for ESP Query Builder Queries

6.4.1 ESP ICD-9 Diagnosis Query

To compose an ICD-9 Diagnosis ESP query, click on the “New” button in the request panel, choose “ESP Query Builder”, and then choose the “ICD-9 Diagnosis” request type.

This will display a request detail page used to enter the criteria for this type of request.

Network
Requests
ICD-9 Diagnosis - 0

Request

ICD-9 Diagnosis

Compose queries that target populations using 3, 4, and 5 digit ICD-9 diagnosis codes that produce counts stratified by code age, race, sex, and period.

Name
ICD-9 Diagnosis - 0

Priority
Normal

Due Date

Purpose of use
<not specified>

Level of PHI Disclosure
<not specified>

Project
Mini-Sentinel

Description

Activity
<None>

Activity Description

Run Mode

☒ Run Immediately After I Click "Submit"

☐ Schedule to Run Later

ICD 9 Codes

No codes selected
Add Codes

Observation Period Range

Start Period
(MM/DD/YYYY)

End Period
(MM/DD/YYYY)

03/13/2013
03/13/2013

Age Range

Min

Max

0
0

Gender

Sex

Male

Race Selector

☒ Race

☐ Unknown

☐ American Indian or Alaska Native

☐ Asian

☐ Black or African American

☐ Native Hawaiian or Other Pacific Islander (NHOPI)

☐ White

Report Selector

Variable	Setting
<input type="checkbox"/> ICD-9	3 Digit
<input type="checkbox"/> Period	Monthly
<input type="checkbox"/> Age	5 Year Age Group
<input type="checkbox"/> Sex	
<input type="checkbox"/> Race	
<input type="checkbox"/> Center	

DataMart Routing

Please select DataMarts to which this query will be sent

☒ DataMart

Organization

☒ OPS DataMart

Operations Center

Submit

Save

Copy

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Figure 18: ESP ICD-9 Diagnosis Request Composer Page

Enter the following criteria for an ICD-9 Diagnoses query:

Table 7: ESP ICD-9 Diagnosis Query Criteria

Control	Description
Code Selection	<p>There are two ways to select the codes:</p> <ul style="list-style-type: none"> • Search by specific code (including decimal, for 4 and 5 digit codes), range of codes (e.g., 250-251, 250.1-255.1, or 296.00-296.99) or keyword to identify codes for the query; wild cards (*) can be used. • Choose a category and select from a list. The list shows code and name. Click on the column header to sort by code or by name. Click on Add Codes to add the selected codes to the list and display the list. <p>Note, when ICD-9 codes of 3 or 4 digits are selected, all available codes to the highest degree of specificity will be displayed in the results. For example, selecting the code '250' is equivalent to a query of 250*, results for available codes 250.xx codes will be queried. Each code in the output will be displayed separately by row.</p> <p>Codes selected will result in a query that returns patient counts that include any of the selected codes or their more specific codes. For instance, selecting 250 and 251 will result in a query that will return counts for all diagnosis of 250 or 250.01-250.09 or 251 or 251.01-251.09.</p> <p>The code set used for the specifications for this query type is provided by the UMLS (Unified Medical Language System).</p>
Observation Period	Select the starting period and ending observation period using the date selector.
Age Range	Select the minimum age and maximum age for the patient population.
Gender	<p>Select a sex from the drop down menu for the patient population. You may choose from the following list:</p> <ul style="list-style-type: none"> • Male • Female • Male and Female

Control	Description
Race	Select one or more values from the race selector
Report Selector	Choose one or more values used to stratify the results. For Age, you may choose to group values by 5 year age groups or 10 year age groups. For Period, you may choose to group values by Monthly or Yearly. There is also an option to stratify results by Center (e.g., Community Health Center).
DataMarts	Select the DataMarts to submit your query to. Only the DataMarts for which you have rights to route your request to are displayed.

6.4.2 ESP Reportable Disease Query

To compose an ESP Reportable Disease Query, click on the “New” button in the request panel, choose “ESP Query Builder”, and then choose the “Reportable Disease” request type.

This will display a request detail page used to enter the criteria for this type of request.

Network > Requests > Reportable Disease - 0

Request

Reportable Disease
Compose a request to create a report on reportable disease containing counts stratified by age, race, sex, and period.

Name: Reportable Disease - 0 Priority: Normal Due Date: Purpose of use: <not specified>

Level of PHI Disclosure: <not specified> Project: Mini-Sentinel [x]

Description:
 Activity: <None> Activity Description:
 Run Mode:
☒ Run Immediately After I Click "Submit"
☐ Schedule to Run Later
 Disease Selector:
 Disease: Influenza-like illness
 Observation Period Range:
 Start Period: (MM/DD/YYYY) 03/13/2013 End Period: (MM/DD/YYYY) 03/13/2013
 Age Range:
 Min: 0 Max: 0 Gender:
 Sex: Male
 Race Selector:
☒ Race
☐ Unknown
☐ American Indian or Alaska Native
☐ Asian
☐ Black or African American
☐ Native Hawaiian or Other Pacific Islander (NHOPI)
☐ White
 Report Selector:

Variable	Setting
Period	Monthly
Age	5 Year Age Group
Sex	
Race	
Center	

DataMart Routing

Please select DataMarts to which this query will be sent

	Organization
<input checked="" type="checkbox"/> DataMart	
<input checked="" type="checkbox"/> OPS DataMart	Operations Center

Submit Save Copy

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Figure 19: ESP Reportable Disease Request Composer Page

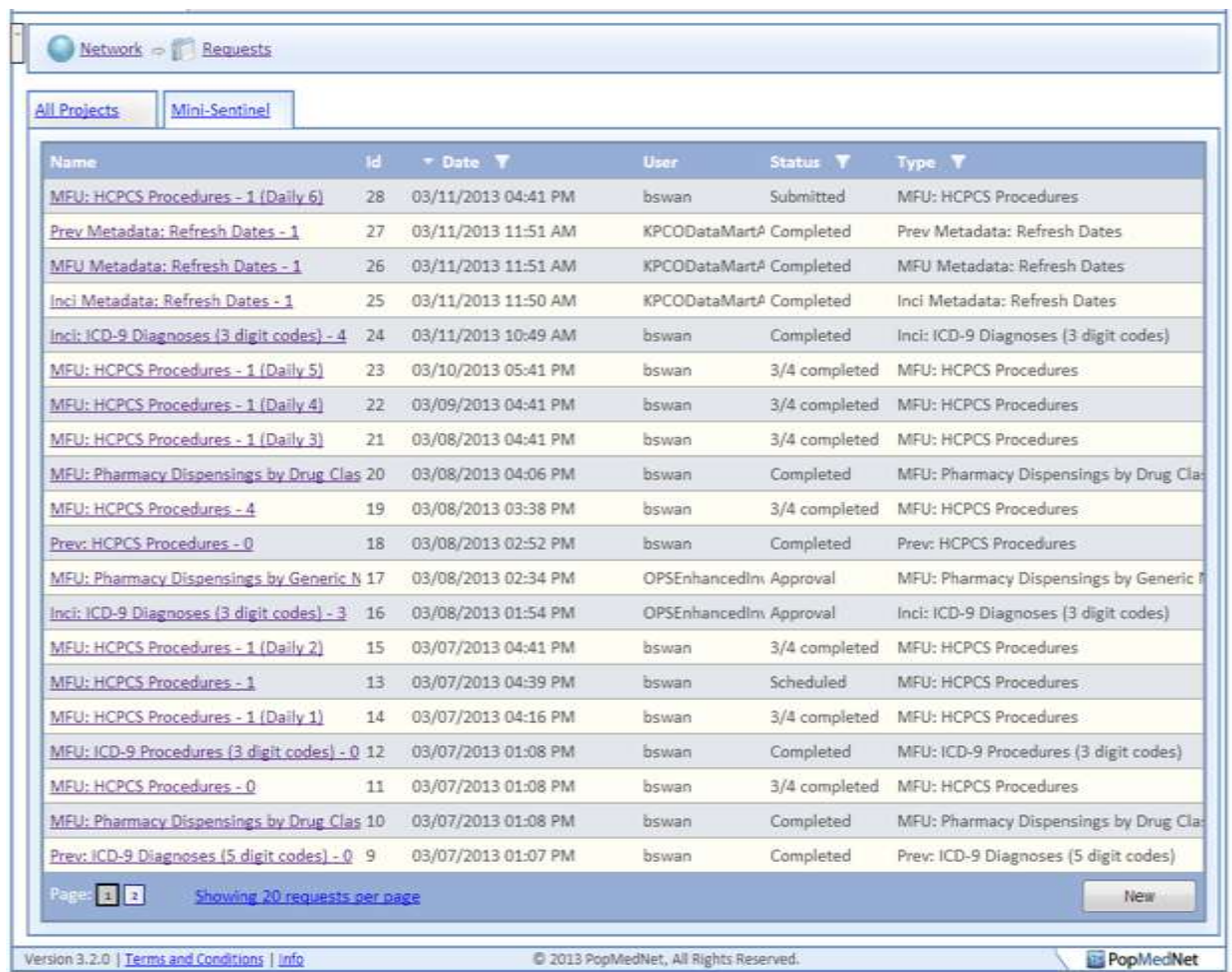
Enter the following criteria for a reportable disease query:

Table 8: ESP Reportable Disease Query Criteria

Control	Description
Disease Selector	Choose the reportable disease you wish to query from the available diseases listed in the drop-down control
Observation Period	Select the starting period and ending observation period using the date selector
Age Range	Select the minimum age and maximum age for the patient population.
Gender	Select a sex the drop down menu for the patient population. You may choose from the following list: <ul style="list-style-type: none"> • Male • Female • Male and Female
Race	Select one or more values from the race selector
Report Selector	Choose one or more values used to stratify the results. For Age, you may choose to group values by 5 year age groups or 10 year age groups. For Period, you may choose to group values by Monthly or Yearly.
DataMarts	Select the DataMarts to submit your query to. Only the DataMarts for which you have rights to route your request to are displayed.

7 Checking the Query Status

Once a request is submitted, its status is displayed in the Requests list.



Name	Id	Date	User	Status	Type
MFU: HCPCS Procedures - 1 (Daily 6)	28	03/11/2013 04:41 PM	bswan	Submitted	MFU: HCPCS Procedures
Prev Metadata: Refresh Dates - 1	27	03/11/2013 11:51 AM	KPCODataMartA	Completed	Prev Metadata: Refresh Dates
MFU Metadata: Refresh Dates - 1	26	03/11/2013 11:51 AM	KPCODataMartA	Completed	MFU Metadata: Refresh Dates
Inci Metadata: Refresh Dates - 1	25	03/11/2013 11:50 AM	KPCODataMartA	Completed	Inci Metadata: Refresh Dates
Inci: ICD-9 Diagnoses (3 digit codes) - 4	24	03/11/2013 10:49 AM	bswan	Completed	Inci: ICD-9 Diagnoses (3 digit codes)
MFU: HCPCS Procedures - 1 (Daily 5)	23	03/10/2013 05:41 PM	bswan	3/4 completed	MFU: HCPCS Procedures
MFU: HCPCS Procedures - 1 (Daily 4)	22	03/09/2013 04:41 PM	bswan	3/4 completed	MFU: HCPCS Procedures
MFU: HCPCS Procedures - 1 (Daily 3)	21	03/08/2013 04:41 PM	bswan	3/4 completed	MFU: HCPCS Procedures
MFU: Pharmacy Dispensings by Drug Clas	20	03/08/2013 04:06 PM	bswan	Completed	MFU: Pharmacy Dispensings by Drug Clas
MFU: HCPCS Procedures - 4	19	03/08/2013 03:38 PM	bswan	3/4 completed	MFU: HCPCS Procedures
Prev: HCPCS Procedures - 0	18	03/08/2013 02:52 PM	bswan	Completed	Prev: HCPCS Procedures
MFU: Pharmacy Dispensings by Generic N	17	03/08/2013 02:34 PM	OPSEnhancedIn	Approval	MFU: Pharmacy Dispensings by Generic N
Inci: ICD-9 Diagnoses (3 digit codes) - 3	16	03/08/2013 01:54 PM	OPSEnhancedIn	Approval	Inci: ICD-9 Diagnoses (3 digit codes)
MFU: HCPCS Procedures - 1 (Daily 2)	15	03/07/2013 04:41 PM	bswan	3/4 completed	MFU: HCPCS Procedures
MFU: HCPCS Procedures - 1	13	03/07/2013 04:39 PM	bswan	Scheduled	MFU: HCPCS Procedures
MFU: HCPCS Procedures - 1 (Daily 1)	14	03/07/2013 04:16 PM	bswan	3/4 completed	MFU: HCPCS Procedures
MFU: ICD-9 Procedures (3 digit codes) - 0	12	03/07/2013 01:08 PM	bswan	Completed	MFU: ICD-9 Procedures (3 digit codes)
MFU: HCPCS Procedures - 0	11	03/07/2013 01:08 PM	bswan	3/4 completed	MFU: HCPCS Procedures
MFU: Pharmacy Dispensings by Drug Clas	10	03/07/2013 01:08 PM	bswan	Completed	MFU: Pharmacy Dispensings by Drug Clas
Prev: ICD-9 Diagnoses (5 digit codes) - 0	9	03/07/2013 01:07 PM	bswan	Completed	Prev: ICD-9 Diagnoses (5 digit codes)

Page: 1 2 Showing 20 requests per page [New](#)


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Figure 20: Request Page

You can view the detailed status of a request by clicking on the request name to navigate to the Request Status detail page.

Network
Requests
MFU: HCPCS Procedures - 0

Request

MFU: HCPCS Procedures

Five-digit HCPCS (CPT-4) procedure codes stratified by age group, sex, year, and location of service.

Name: MFU: HCPCS Procedures - 0
Priority: Normal
Due Date: N/A
Purpose of use:

Level of PHS Disclosure:
Project: Mini-Sentinel

Project Description:

Description:

Activity:
Activity Description:

Copy

Run Mode:
Request was submitted immediately.

[Show Documents List](#)

Metric Type: Events

Output Criteria:

Output the top XX by age group, sex. For example, selecting 20 will output the 20 most frequent occurrences identified in the specific table.

5

Setting: Any Setting

Age Stratification:
10 Stratifications (0-1,2-4,5-9,10-14,15-18,19-21,22-44,45-64,65-74,75+)

Sex Stratification:
Male and Female

Observation Period Selector:

Start Period: 2008
End Period: 2010

Received Responses

	Last Response	Status	Message
<input checked="" type="checkbox"/> DataMart			
<input checked="" type="checkbox"/> KPNW DataMart	3/11/2013 10:10:56 AM	Completed	
<input checked="" type="checkbox"/> KPCO DataMart	3/11/2013 10:04:45 AM	Completed	
<input checked="" type="checkbox"/> OPS DataMart	3/7/2013 1:14:25 PM	Completed	

View Results Resubmit

Incomplete Routings

	Status
<input checked="" type="checkbox"/> DataMart	
<input type="checkbox"/> HPHC DataMart	Submitted

Add DataMarts Remove DataMarts

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Figure 21: Statuses on Request Details Page

This displays a list of all the DataMarts to which you submitted the request along with status for each DataMart.

8 Viewing Request Results

You can view the results of a request from the Request Detail page by selecting “View Results.”

Network
Requests
MFU: HCPCS Procedures - 0

Request

MFU: HCPCS Procedures

Five-digit HCPCS (CPT-4) procedure codes stratified by age group, sex, year, and location of service.

Name: MFU: HCPCS Procedures - 0
Priority: Normal
Due Date: N/A
Purpose of use:

Level of PHS Disclosure:
Project: Mini-Sentinel

Project Description:

Description:

Activity:
Activity Description:

Copy

Run Mode:
Request was submitted immediately.

[Show Documents List](#)

Metric Type:
Events

Output Criteria:
Output the top XX by age group, sex. For example, selecting 20 will output the 20 most frequent occurrences identified in the specific table.
5

Setting:
Any Setting

Age Stratification:
10 Stratifications (0-1,2-4,5-9,10-14,15-18,19-21,22-44,45-64,65-74,75+)

Sex Stratification:
Male and Female

Observation Period Selector:

Start Period: 2008
End Period: 2010

Received Responses

<input checked="" type="checkbox"/>	DataMart	Last Response	Status	Message
<input checked="" type="checkbox"/>	KPNW DataMart	3/11/2013 10:10:56 AM	Completed	
<input checked="" type="checkbox"/>	KPCO DataMart	3/11/2013 10:04:45 AM	Completed	
<input checked="" type="checkbox"/>	OPS DataMart	3/7/2013 1:14:25 PM	Completed	

View Results
Resubmit

Incomplete Routings

<input checked="" type="checkbox"/>	DataMart	Status
<input type="checkbox"/>	HPHC DataMart	Submitted

Add DataMarts
Remove DataMarts

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Figure 22: Request Detail Page - View Results Button

A user designated as an Enhanced Investigator will have the right to view site results individually across the organizations within the query. This role will be assigned at the discretion of a Network Administrator and in accordance with the governance of the network.

Note: Be sure to check the status of a query before you view the results. **If you select View Result before all DataMarts have uploaded their results, you will cancel queries which have not yet been responded to** (i.e., you will not be able to see any results from the DataMarts that did not respond to that query). If you want information from those DataMarts, you must submit a new query.

Selecting “View Results” will display the response based on your query parameters in a table.

Network
Requests
MFU: HCPCS Procedures - 138

Request

MFU: HCPCS Procedures

Five-digit HCPCS (CPT-4) procedure codes stratified by age group, sex, year, and location of service.

Name

MFU: HCPCS Procedures - 138

Priority

Normal

Due Date

N/A

Purpose of use

Level of PHI Disclosure

Project

Mini-Sentinel

Project Description

Test project description.

Description

Activity

Activity Description

Source DataMarts:

HPHC DataMart

Download these results

Period	Sex	AgeGroup	Setting	PXCode	PXName	Members	Events	Total Enrollment in Strata(Members)	Days Covered	User Rate (Use
2017	F	0-1	IP	99460	INIT NB EM PER DAY, HOSP	891	979	3709	795912	240
2017	F	0-1	IP	99238	HOSPITAL DISCHARGE DAY	830	930	3709	795912	224
2017	F	0-1	IP	99462	SBSQ NB EM PER DAY, HOSP	532	819	3709	795912	143
2017	F	0-1	IP	92586	AUDITOR EVOKE POTENT, LIMIT	225	265	3709	795912	61
2017	F	0-1	IP	99464	ATTENDANCE AT DELIVERY	178	204	3709	795912	48
2017	F	2-4	IP	99238	HOSPITAL DISCHARGE DAY	52	59	6430	1745723	8
2017	F	2-4	IP	99222	INITIAL HOSPITAL CARE	39	42	6430	1745723	6
2017	F	2-4	IP	99232	SUBSEQUENT HOSPITAL CARE	35	63	6430	1745723	5
2017	F	2-4	IP	99392	PREV VISIT, EST, AGE 1-4	33	41	6430	1745723	5
2017	F	2-4	IP	71020	CHEST X-RAY	31	46	6430	1745723	5
2017	F	5-9	IP	99232	SUBSEQUENT HOSPITAL CARE	40	91	11926	3340830	3
2017	F	5-9	IP	99238	HOSPITAL DISCHARGE DAY	40	44	11926	3340830	3

Figure 23: Request Response Page

8.1 Calculated Rates Columns

The calculated columns are included to give supporting information for the codes of interest. The Enrollment summary tables for each category are used with the corresponding selected query type to calculate the rates.

Medical Queries: HCPCS Procedures, ICD-9 Diagnoses and Procedures

- Total Enrollment in Strata (Members)-Total count includes members with both medical and drug coverage plus those with medical coverage only.
- Prevalence Rates (Users per 1000 enrollees)
- Event Rate (Events per 1000 enrollees)
- Events per Member

Drug Queries: Pharmacy Dispensings by Generic Name and Drug Class

- Total Enrollment in Strata (Members) – Total count includes members with both medical and drug coverage plus those with drug coverage only.
- Prevalence Rates (Users per 1000 enrollees)
- Dispensing Rate (Dispensings per 1000 enrollees)
- Days per Dispensing
- Days per User

9 Exporting Result Data

You can export the result data to a CSV File or to Excel from the View Results screen.

Use these steps to export data:

- Choose CSV or Excel from the “Export to:” drop down box.
- Click the Export button

10 Adding or Removing DataMarts from Submitted Queries

Before viewing your query result, you can add DataMarts to or remove them from a query.

Note: You cannot remove a particular DataMart after it has uploaded results to the query.

Network > Requests > MFU: HCPCS Procedures - 10

Request

MFU: HCPCS Procedures
Five-digit HCPCS (CPT-4) procedure codes stratified by age group, sex, year, and location of service.

Name: MFU: HCPCS Procedures - 10 Priority: Normal Due Date: N/A Purpose of use:

Level of PHI Disclosure: Project: Mini-Sentinel

Project Description:

Description:

Activity: Activity Description:

Copy

Run Mode
Request was submitted immediately.

[Show Documents List](#)

Metric Type
Events

Output Criteria
Output the top XX by age group, sex. For example, selecting 20 will output the 20 most frequent occurrences identified in the specific table.
5

Setting
Any Setting

Age Stratification
10 Stratifications (0-1,2-4,5-9,10-14,15-18,19-21,22-44,45-64,65-74,75+)

Sex Stratification
Male and Female

Observation Period Selector
Start Period: 2008 End Period: 2010

Incomplete Routings

DataMart	Status
HPHC DataMart	Submitted
OPS DataMart	Submitted

Add DataMarts Remove DataMarts

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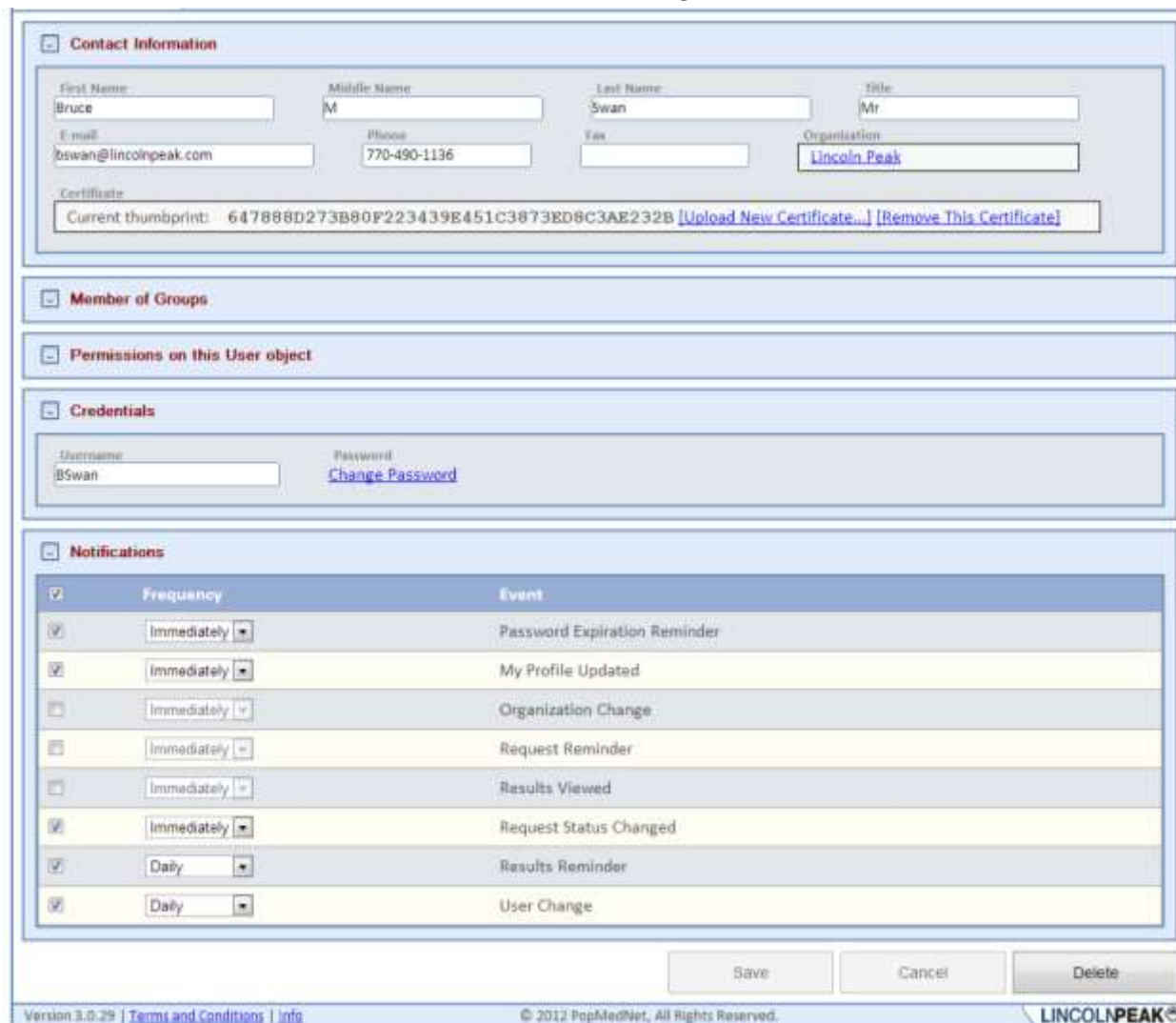
Figure 24: Request Detail Page - DataMart Routing Buttons

To add DataMart from the query, use the “Add DataMarts” button in the Incomplete Routings panel at the bottom of the request status page. This will display a list of available DataMarts you are allowed to route the query.

To Remove a DataMart from the query, first select the DataMart using the checkbox control to next to the DataMart name, then click the “Remove DataMarts” button.

11 Administering your User Profile

You must be logged in to the web portal to administer your user profile. Select “Profile” from the main menu to display your user profile. Use this page to change contact information, password, and notification settings.



Frequency	Event
<input checked="" type="checkbox"/> Immediately	Password Expiration Reminder
<input checked="" type="checkbox"/> Immediately	My Profile Updated
<input type="checkbox"/> Immediately	Organization Change
<input type="checkbox"/> Immediately	Request Reminder
<input type="checkbox"/> Immediately	Results Viewed
<input checked="" type="checkbox"/> Immediately	Request Status Changed
<input checked="" type="checkbox"/> Daily	Results Reminder
<input checked="" type="checkbox"/> Daily	User Change

Figure 25: User Profile Page

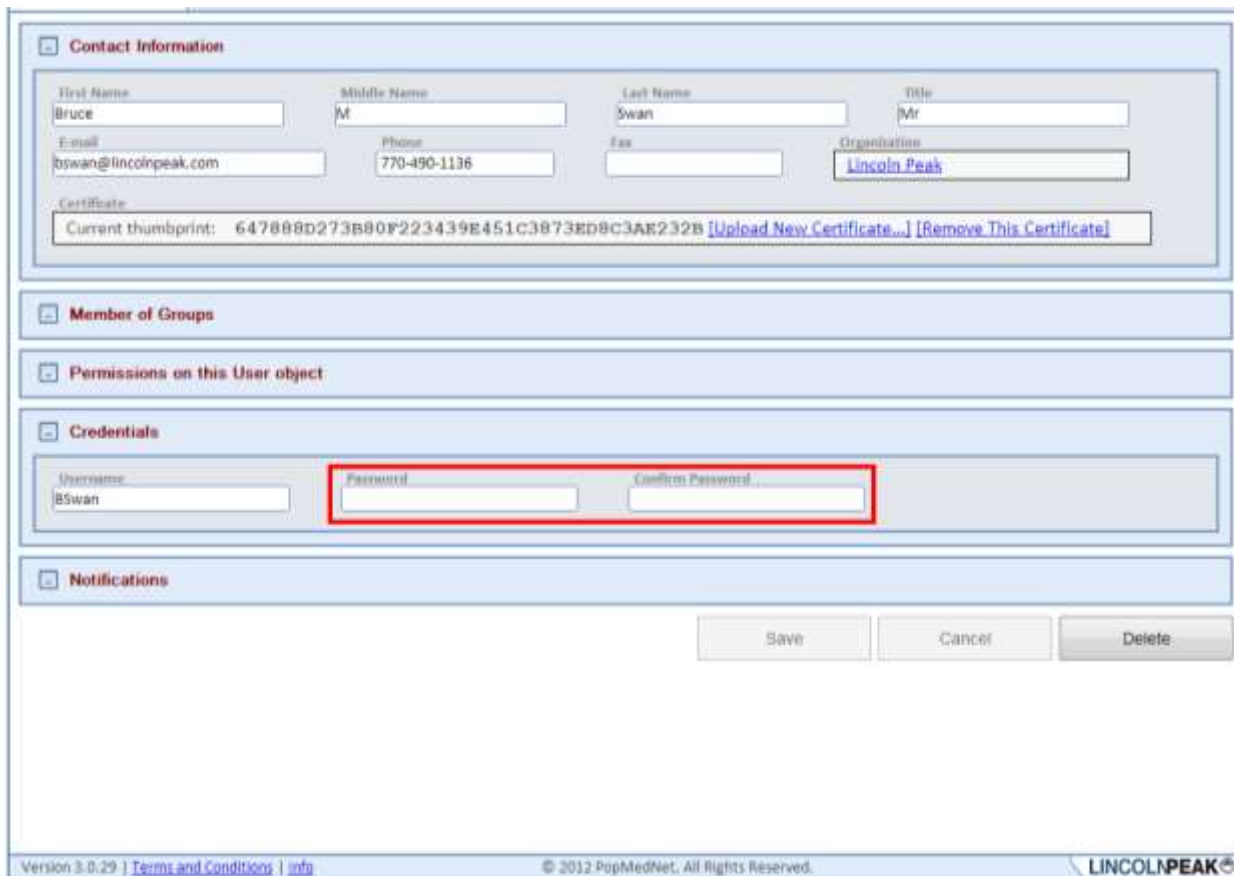
11.1 How to Reset your Password

Your user profile has two boxes for passwords. To change your password:

- Enter the new password in the first Password box.
- Re-enter the new password in the second Password box.
- Click the Save button.

Note: All passwords must meet the following complexity standard:

- Length must be at least 7 characters
- Password must include at least 1 upper case letter, 1 lower case, 1 number, and 1 symbol.



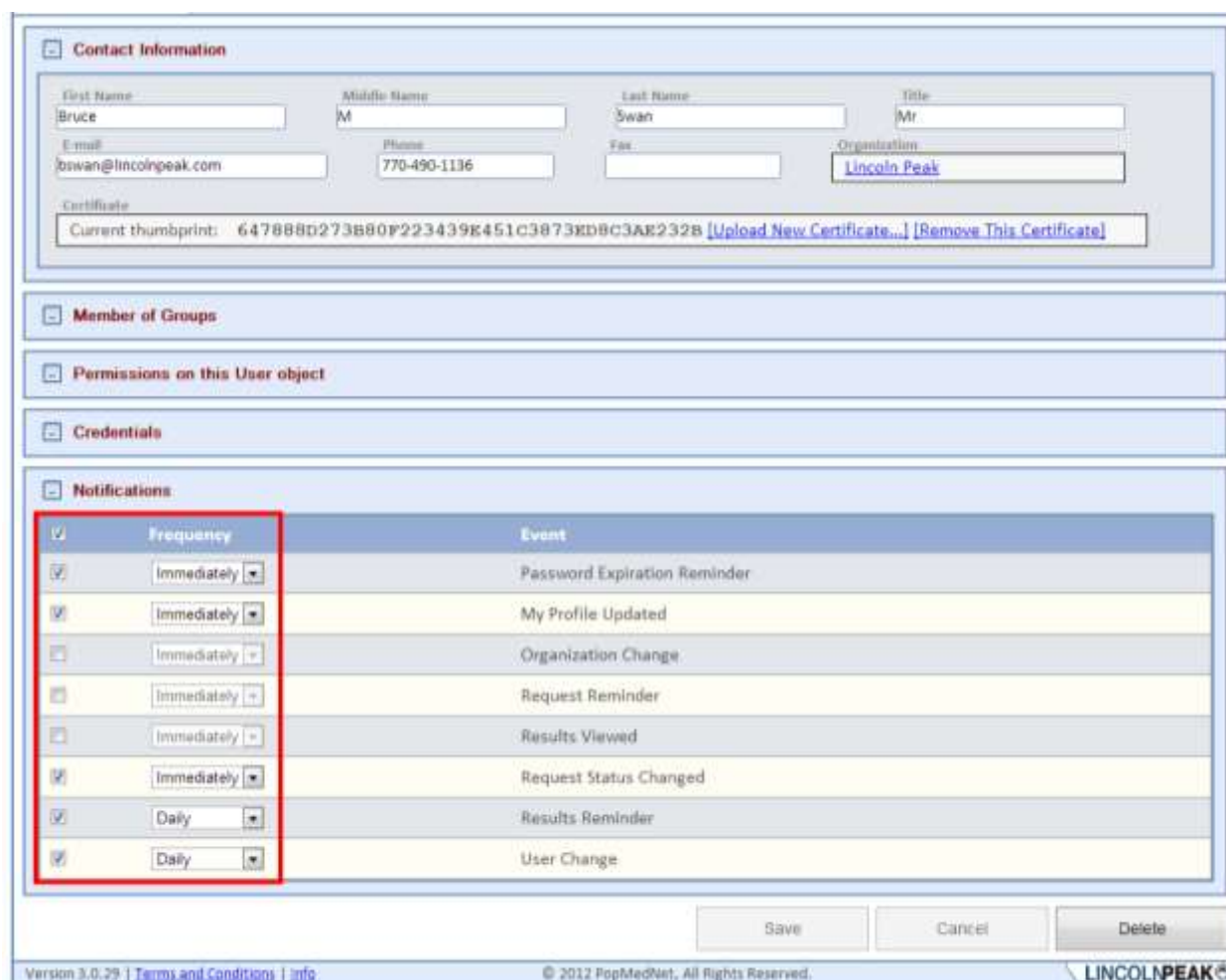
The screenshot shows a web interface for a user profile. It has several tabs: Contact Information, Member of Groups, Permissions on this User object, Credentials, and Notifications. The 'Credentials' tab is active, and the 'Password' and 'Confirm Password' input boxes are highlighted with a red rectangle. The 'Contact Information' tab shows fields for First Name (Bruce), Middle Name (M), Last Name (Swan), Title (Mr), E-mail (bswan@lincolnpeak.com), Phone (770-490-1136), Fax, and Organization (Lincoln Peak). A certificate thumbprint is also displayed.

Figure 26: User Profile Page - Password Boxes

Once you initially get your login credentials from the system administrator, it is highly advised that you change your password from the default password given to you.

11.2 Notifications

Notification options allow the user to manage events that are triggered due to actions performed by the user or related to the user's role, such as a Query Administrator. Users have the option of receiving notifications immediately when they are triggered, daily, weekly, or monthly. When choosing daily, weekly, or monthly, the notifications are batched together with other notifications on the same schedule in a single email.



Frequency	Event
<input checked="" type="checkbox"/> Immediately	Password Expiration Reminder
<input checked="" type="checkbox"/> Immediately	My Profile Updated
<input type="checkbox"/> Immediately	Organization Change
<input type="checkbox"/> Immediately	Request Reminder
<input type="checkbox"/> Immediately	Results Viewed
<input checked="" type="checkbox"/> Immediately	Request Status Changed
<input checked="" type="checkbox"/> Daily	Results Reminder
<input checked="" type="checkbox"/> Daily	User Change

Figure 27: User Profile Page - Notification Options

Note: Once the user has chosen to receive notifications, regardless of the delivery frequency selected; the notifications are displayed in the Notifications panel on the Home page.

The notification options displayed in your profile are dependent on the roles or privileges that have been granted to you. The following is a complete list of notifications.

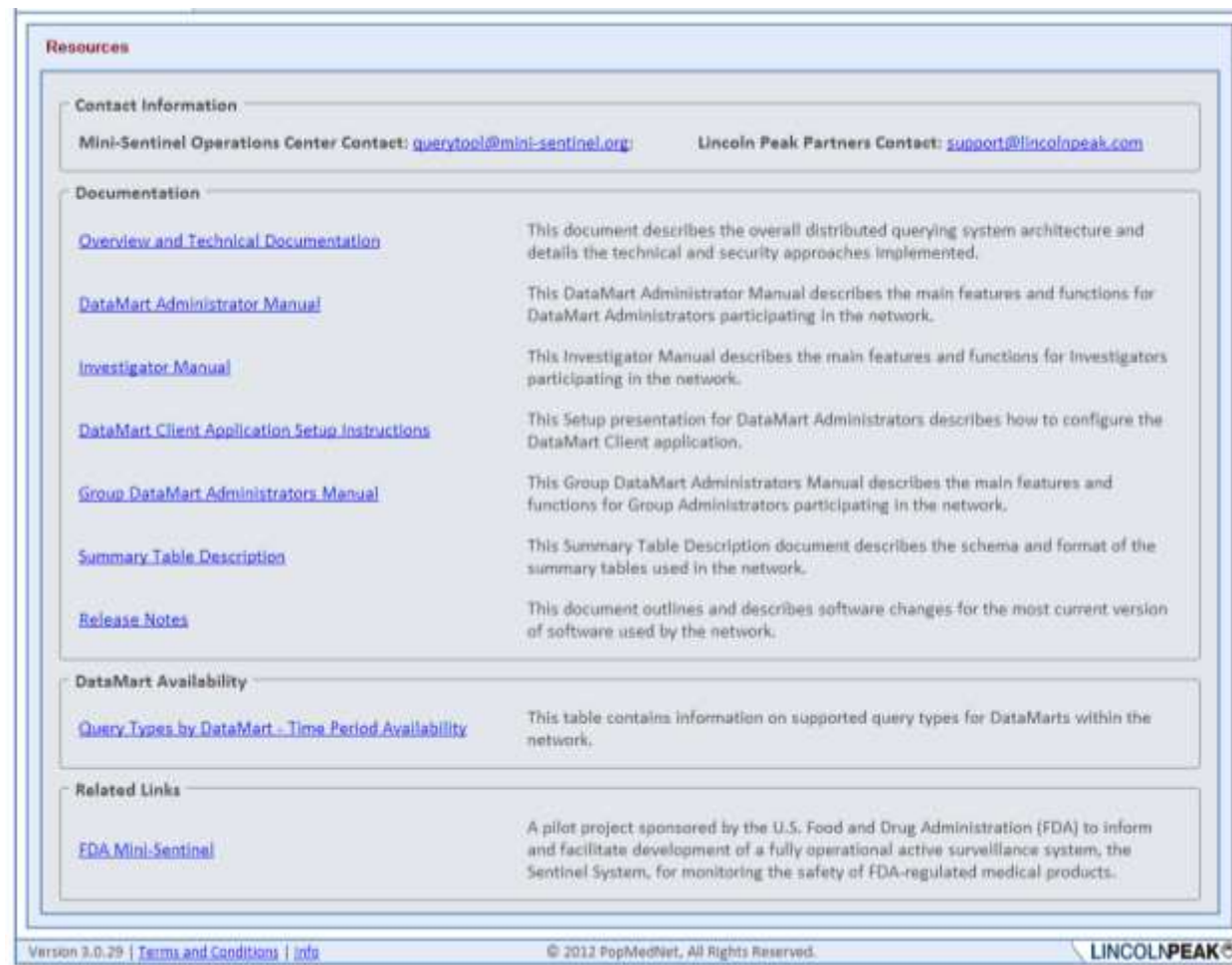
Table 9: Notifications

Category	Event	Description
User	Password Expiration Reminder	Notifies the user that their password is about to expire.
	My Profile Change	Notifies the user there was an update to their profile.
	User Change	Notifies administrators there was a user added, deleted, or updated.
	New User Registration Submitted	Notifies administrators a new user request has been submitted.
	Registration Change	Notifies administrators there has been a change to a user registration request.
Requests	New Request Submitted	Notifies DataMart administrators that a new request has been submitted.
	Request Status Changed	Notifies investigators and administrators that a change has been made to a request.
	Request Reminder	Reminds DataMart administrators there is a pending request that requires their attention.
	Results Reminder	Reminds administrators and investigators that results have been uploaded for their request.
	Results Viewed	Notifies administrators that a result has been viewed.
Organization	Organization Change	Notifies administrators that an organization has been added, updated, or deleted.

Category	Event	Description
Group	Group Change	Notifies administrators that an group has been added, updated, or deleted.
DataMart	New DataMart Client Version is Available	Notifies DataMart administrators that a new version of the DataMart Client application is available.
	DataMart Change	Notifies administrators that a DataMart has been added, updated, or deleted.

12 Getting Help

Once logged in, the Resource Tab offers helpful contact information, documentation, and related links, as seen below.



The screenshot shows the 'Resources' page of the PopMedNet web portal. The page is titled 'Resources' in red text at the top left. It contains several sections with expandable/collapsible headers:

- Contact Information:**
 - Mini-Sentinel Operations Center Contact: querytool@mini-sentinel.org
 - Lincoln Peak Partners Contact: support@lincolnpk.com
- Documentation:**
 - [Overview and Technical Documentation](#): This document describes the overall distributed querying system architecture and details the technical and security approaches implemented.
 - [DataMart Administrator Manual](#): This DataMart Administrator Manual describes the main features and functions for DataMart Administrators participating in the network.
 - [Investigator Manual](#): This Investigator Manual describes the main features and functions for Investigators participating in the network.
 - [DataMart Client Application Setup Instructions](#): This Setup presentation for DataMart Administrators describes how to configure the DataMart Client application.
 - [Group DataMart Administrators Manual](#): This Group DataMart Administrators Manual describes the main features and functions for Group Administrators participating in the network.
 - [Summary Table Description](#): This Summary Table Description document describes the schema and format of the summary tables used in the network.
 - [Release Notes](#): This document outlines and describes software changes for the most current version of software used by the network.
- DataMart Availability:**
 - [Query Types by DataMart - Time Period Availability](#): This table contains information on supported query types for DataMarts within the network.
- Related Links:**
 - [FDA Mini-Sentinel](#): A pilot project sponsored by the U.S. Food and Drug Administration (FDA) to inform and facilitate development of a fully operational active surveillance system, the Sentinel System, for monitoring the safety of FDA-regulated medical products.

At the bottom of the page, there is a footer with the following information:

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- LINCOLNPEAK logo

Figure 28: Resources Page

If you have trouble accessing the Web Portal or your user account, click on the Contact Us link and describe your issue to request help from the PopMedNet™ support staff.

13 Development and Funding Statement

The **PopMedNet™** software application was developed as part of several contracts awarded by the Agency for Healthcare Research and Quality (AHRQ) to the HMO Research Network (HMORN) Center for Education and Research on Therapeutics (CERT) DEcIDE Center housed in the Department of Population Medicine at the Harvard Pilgrim Health Care Institute (HPHCI). Additional development was funded by AHRQ under the Scalable PARTnering Network for CER: Across Lifespan, Conditions, and Settings (SPAN) project. Additional support has been provided by The Food and Drug Administration's Mini-Sentinel project (Contract No. HHSF223200910006I) and the US Department of Health and Human Services Office of the National Coordinator for Health Information Technology (ONC) MDPHnet project.

The system was developed by Lincoln Peak Partners under the direction of HPHCI.

14 Frequently Asked Questions

This section lists some of the most frequently asked questions.

- What is the difference between Groups, Organizations, and Users?
 - Users are individuals with various roles and associated rights within the system such as Investigator, DataMart Administrator, and System Administrator. Organizations have one or more users and zero, one, or more DataMarts. Users are members of a single Organization. Groups are collections of one or more Organizations and an Organization may be a member of zero, one, or more Groups. Groups allow management of a collection of organizations by a set of administrators.
- What are my rights as a user and how can I change them?
 - Rights can be assigned to individual user accounts for to various security groups for which the user is a member by the Network Administrator or the user's Organization Administrator.
- Where can I get more information on the PopMedNet™ application?
 - You may contact the Operations Center for more information:

Jeffrey Brown, PhD
Harvard Pilgrim Health Care Institute
Jeff_brown@hphc.org
www.popmednet.org

- When I viewed my results, I got the error message “No data available for display.” What does this mean?

Network > Requests > ICD-9 Diagnosis - 327

Request

Name

ICD-9 Diagnosis - 327

Priority

Low

Due Date

N/A

Type

ICD-9 Diagnosis

Description

Activity

Activity Description

Source DataMarts:

LPP - Atlanta Manual DM

LPP - Atlanta Auto DM

Download these results

Response

Show Documents List

Code	Description	5 Year Age Group	Sex	Observation Period	Race	Center	Patients
No data to show							

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Figure 29: Request Response Page - Empty Results

This means that the sites queried had no data in their database that matched your query specifications so an empty set was returned to the portal

Appendix A: Quick Reference for Investigators

Quick Reference: Investigator

- 1) How to Submit a Query
 - a) Log into the Portal with your credentials.
 - b) Click the New button in the Requests panel and select the Summary Query request model and then choose the type of request from the list.
 - c) Complete the request form by entering a name, brief description of the query, and selecting the relevant parameters.
 - d) Select the DataMarts (Data Partners) who you would like to send the query.
 - e) Click *Submit*.

- 2) How to Distribute a File
 - a) Log into the Portal with your credentials.
 - b) Click the New button in the Requests panel and select the File Distribution request model and then choose the File Distribution request type.
 - c) Complete the File Distribution form by entering a name and a brief description of the file(s) you are sending.
 - d) Browse and upload your file(s) you wish to send to DataMarts.
 - e) Select the DataMarts (Data Partners) who you would like to send the file(s).
 - f) Click *Submit* button.

- 3) How to View Results on the Portal
 - a) Log into the Portal with your credentials and go to the *Requests* list panel on the home page or click Requests from the top menu.
 - b) Find and click on the request name for which you wish to see the results to navigate to the Request Status page.
 - c) When all sites have responded, click *View Result*. Enhanced Investigators may view site-specific results by checking a site and clicking *View Selected Results*.
 - d) Export result data to Excel/CSV or download returned files for review.

Appendix B: Query Administrator Role

The Query Administrator acts as a gatekeeper for all the queries coming out of an organization. Given budgeting for queries, this role can monitor query submission so that only the most relevant queries are distributed to the sites in the network.

Once an investigator within the organization submits a query, the request status is marked as “Approval” as shown in the following figure.

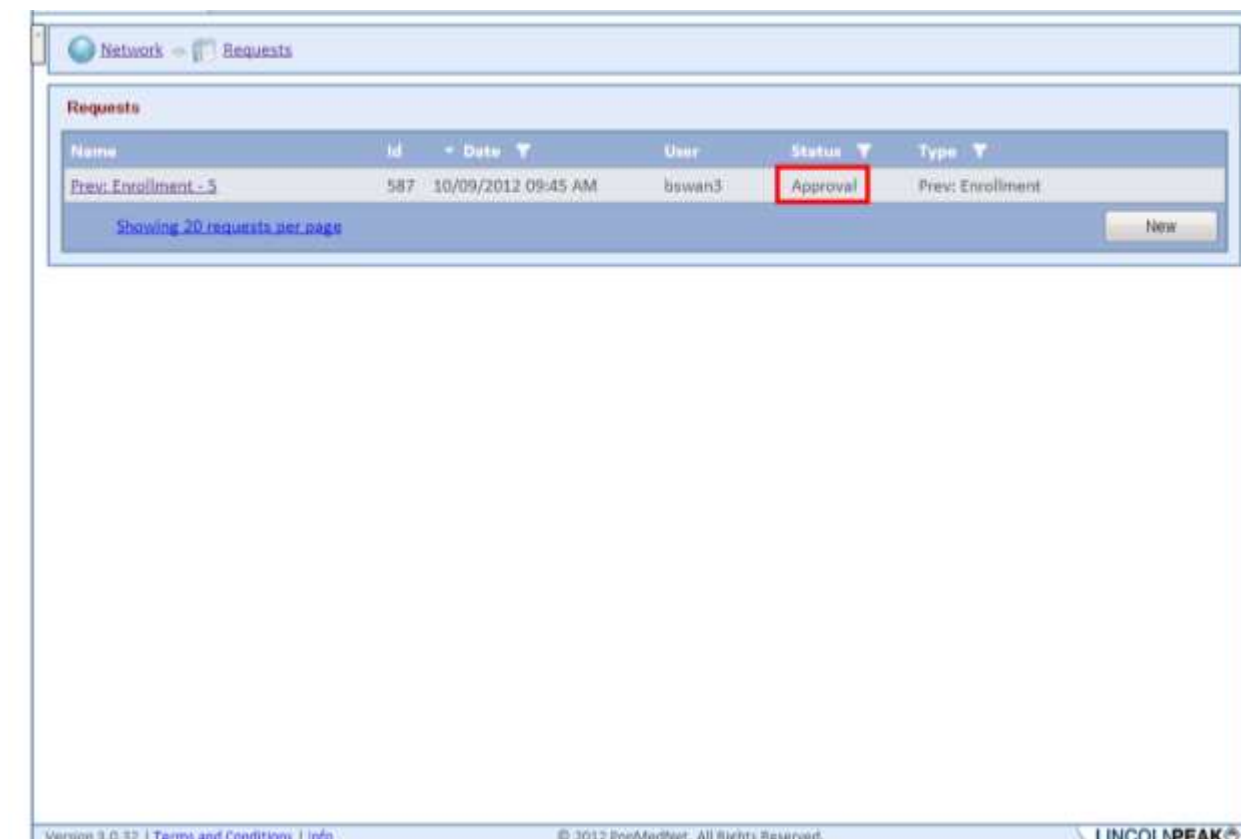
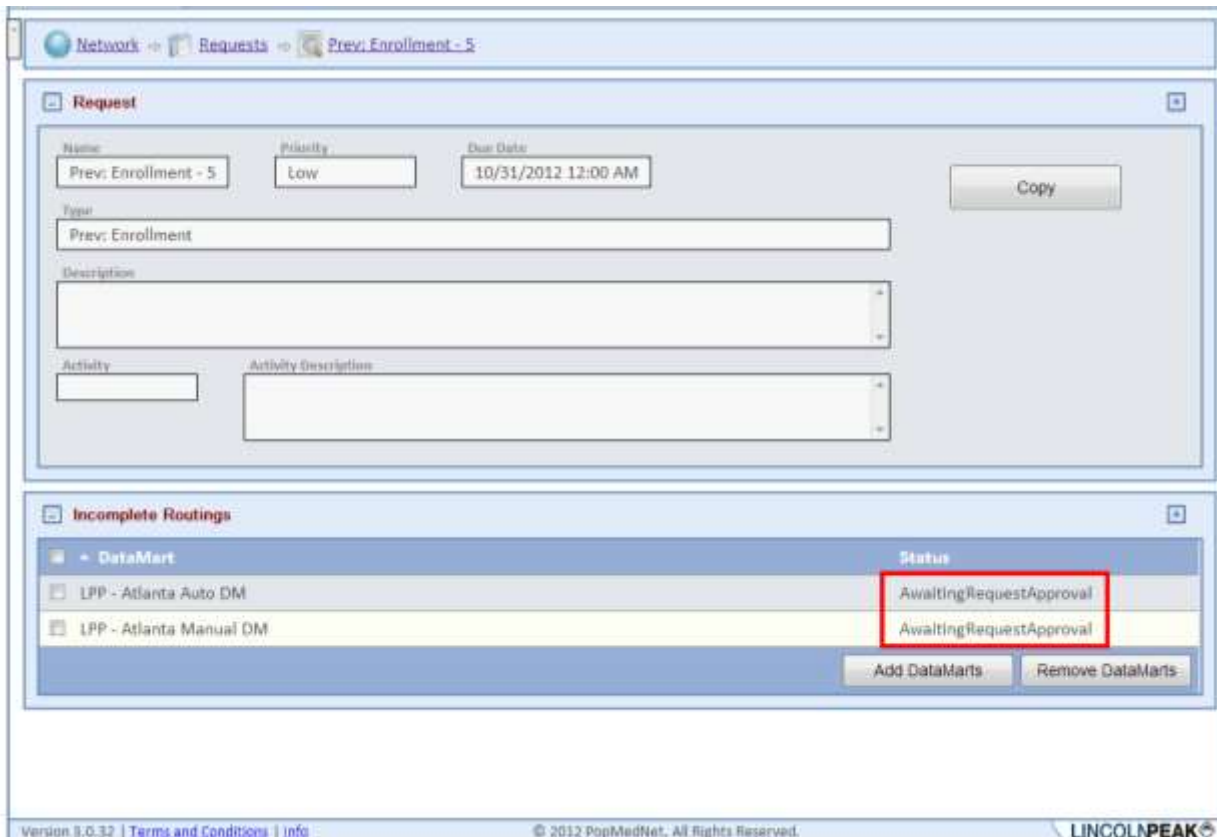


Figure 30: Request Page - Approval Request Status

Clicking on the request name navigates the user to the request status page where they see its status.



Network > Requests > Prev: Enrollment - 5

Request

Name: Prev: Enrollment - 5 Priority: Low Due Date: 10/31/2012 12:00 AM Copy

Type: Prev: Enrollment

Description:

Activity: Activity Description:

Incomplete Routings

DataMart	Status
LPP - Atlanta Auto DM	AwaitingRequestApproval
LPP - Atlanta Manual DM	AwaitingRequestApproval

Add DataMarts Remove DataMarts

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Figure 31: Request Detail Page - Awaiting Response Approval Routing Statuses

The query administrator receives an email notification about a query that is “Awaiting Request Approval”. When the Query Administrator then logs in with their login credentials, they will see the new request waiting for approval in their request list.

What's New

Notifications

Tasks

Name	Id	Date	User	Status	Type
test user	38	10/03/2012 06:12 AM	test5	Awaiting Approval	Registration
Daniel 4 Amherst	34	09/27/2012 02:15 PM	ddee4amh	Awaiting Approval	Registration
Daniel 3 Amherst	33	09/27/2012 02:12 PM	ddee3amh	Awaiting Approval	Registration

Showing 10 requests per page

Requests

Name	Id	Date	User	Status	Type
ICD-9 Diagnosis - 131 (Daily 13)	588	10/09/2012 09:50 AM	ABahl	Submitted	ICD-9 Diagnosis
Prev: Enrollment - 5	587	10/09/2012 09:45 AM	bswan3	Approval	Prev: Enrollment
ICD-9 Diagnosis - 16 (Daily 13)	586	10/09/2012 03:54 AM	LPPInvestigator	Submitted	ICD-9 Diagnosis
ICD-9 Diagnosis - 131 (Daily 12)	583	10/08/2012 09:50 AM	ABahl	Submitted	ICD-9 Diagnosis
ICD-9 Diagnosis - 16 (Daily 12)	582	10/08/2012 03:54 AM	LPPInvestigator	Submitted	ICD-9 Diagnosis
ICD-9 Diagnosis - 312	579	10/07/2012 10:08 AM	B5wan	Submitted	ICD-9 Diagnosis
ICD-9 Diagnosis - 131 (Daily 11)	578	10/07/2012 09:50 AM	ABahl	Submitted	ICD-9 Diagnosis
ICD-9 Diagnosis - 16 (Daily 11)	577	10/07/2012 03:54 AM	LPPInvestigator	Submitted	ICD-9 Diagnosis
ICD-9 Diagnosis - 131 (Daily 10)	574	10/06/2012 09:50 AM	ABahl	Submitted	ICD-9 Diagnosis
ICD-9 Diagnosis - 16 (Daily 10)	573	10/06/2012 03:54 AM	LPPInvestigator	Submitted	ICD-9 Diagnosis

1

2

3

4

5

6

7

8

9

10

Showing 10 requests per page

New

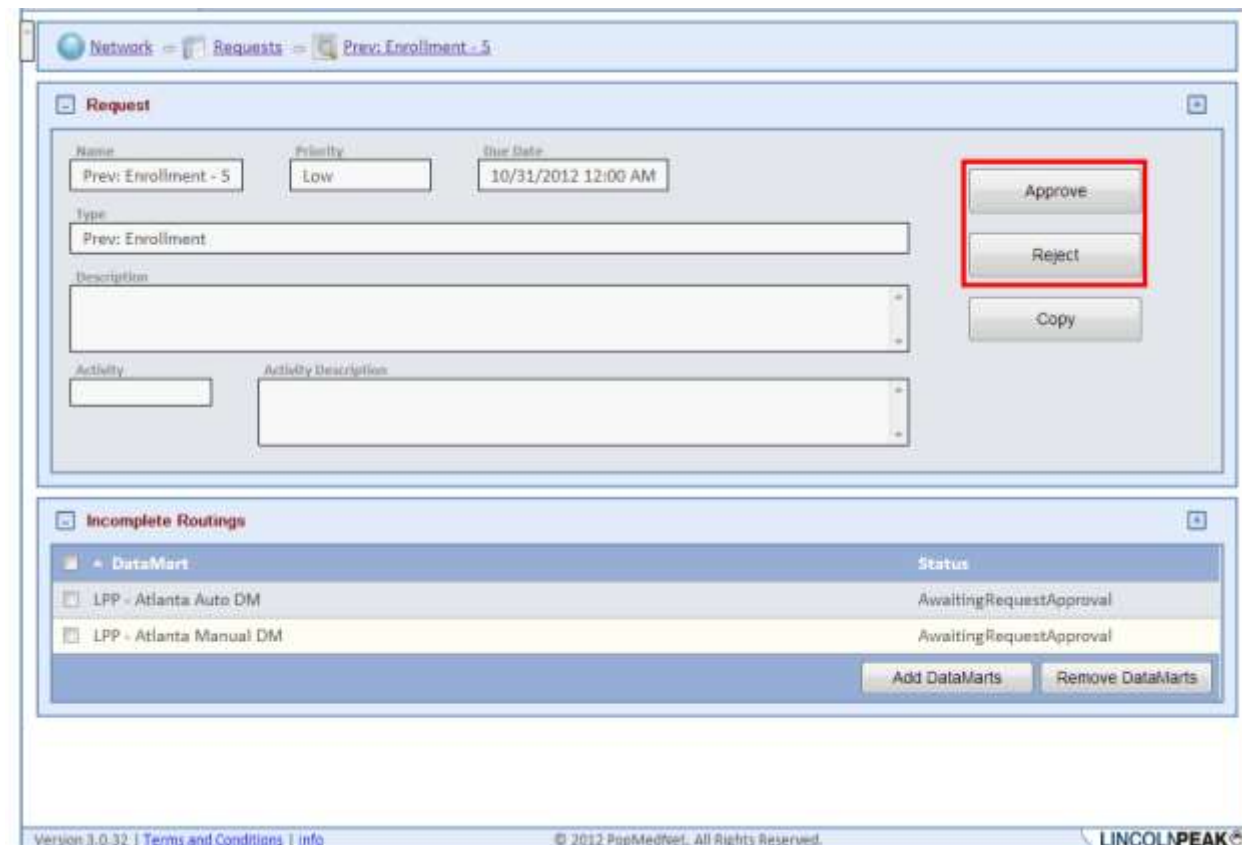
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Figure 32: Request Page - Request Awaiting Approval

Clicking request name will navigate the query administrator to the request status page where they can review, approve, or reject the query along with comments.



Network > Requests > Prev: Enrollment - 5

Request

Name: Prev: Enrollment - 5 Priority: Low Due Date: 10/31/2012 12:00 AM

Type: Prev: Enrollment

Description:

Activity: Activity Description:

Approve
Reject
Copy

Incomplete Routings

DataMart	Status
<input type="checkbox"/> LPP - Atlanta Auto DM	AwaitingRequestApproval
<input type="checkbox"/> LPP - Atlanta Manual DM	AwaitingRequestApproval

Add DataMarts Remove DataMarts

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Figure 33: Request Detail Page - Approve and Reject Options

As results are uploaded to the query, the Query Administrator can view individual site results, just like an Enhanced Investigator. Query Administrators can also submit queries.