



North Dakota Health Information Network Clinical Portal

Primary Provider User Manual

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The screenshots and presentations shown are intended as examples only, and may differ from the actual screenshots and presentations generated by the released product in commercial production.

Introduction

Purpose

The NDHIN Clinical Portal provides a secure and integrated view of a patient's longitudinal record. The purpose of this document is to describe the key concepts within NDHIN Clinical Portal that will enable effective use of the solution. This document is intended as a guide for primary providers.

Roles and Responsibilities Overview

Primary providers are assigned Level 1 access. Level 1 access is granted to clinicians that provide patient care in a variety of settings – offices, clinics, emergency departments and hospitals. Level 1 functions include:

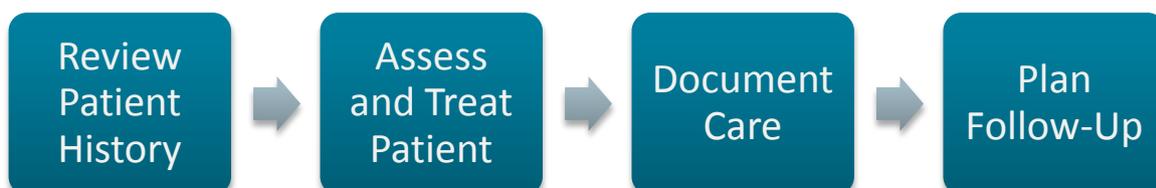
- Search for patients
- View clinical information
- 'Break the Seal'
- Configure subscription notifications
- Send clinical portal messages
- Send Direct Secure Messages

A full list of HIE user levels is provided in [**Appendix A Functional Roles Matrix**](#).

Sample Workflow

Sample Primary Provider Workflow

A sample workflow of a patient encounter for a primary provider is shown below. Click the workflow block to jump to the user manual section relating to the activity.



NDHIN HIE Touchpoints

Review patient history: Navigate to the **Patient Summary** and **Timeline** for a concise overview of the patient's recent encounters, allergies, active medications and problems.

Assess and treat patient: Review lab results, findings and clinical documents by accessing the **Clinical Document Tree** to avoid unnecessary duplication of tests and other treatment.

Document Care and plan follow-up: Generate a **Continuity of Care Document** CCD to securely transmit patient data to another provider or the patient. Subscribe to notifications to receive alerts when new patient information is received.

Getting Acquainted with the User Interface

Logging into the NDHIN Clinical Portal

The NDHIN Clinical Portal Login screen is shown below. A username and password are required to gain access to the application. A temporary password will be assigned upon account creation. Once the user has entered the username and temporary password, the system will prompt the user to change the password.

Note: Username is not case-sensitive; however, the password IS case-sensitive.



The screenshot shows the NDHIN Clinical Portal login screen. At the top, the NDHIN logo is displayed, consisting of the letters 'NDHIN' in a bold, serif font, with 'North Dakota Health Information Network' written in a smaller, sans-serif font below it. A red swoosh underline is positioned under the text. Below the logo, the text 'Please enter your user ID and password' is centered. There are two input fields: 'User ID' and 'Password', each with a blue border. Below the 'Password' field is a blue link with a question mark icon that says 'Forgot your password?'. At the bottom center is a blue 'Login' button.

Figure 1: NDHIN Clinical Portal Login Display

Tips for setting passwords:

- Passwords must be at least 8 characters long
- Password will expire every 90 days for all users
- Passwords must be 'strong' (upper and lower case, number, special character)
- Accounts will be locked out after 3 bad login attempts (counter and account reset after 15 minutes)

The **Forgot Your Password** link allows a user who has forgotten their password to gain access to Clinical Portal by (correctly) answering the secret question they have configured on the My Details screen. This means Help Desk or other support staff do not need to be involved when a user requires password assistance by utilizing the Forgot My Password link on the sign-in screen. See the [My Details](#) section of the User Manual for set-up instructions.

Upon successful login, a disclaimer will appear and prompt the user to Accept or Cancel. If the user does not accept the disclaimer within five minutes, the user will be logged out and returned to the login page.

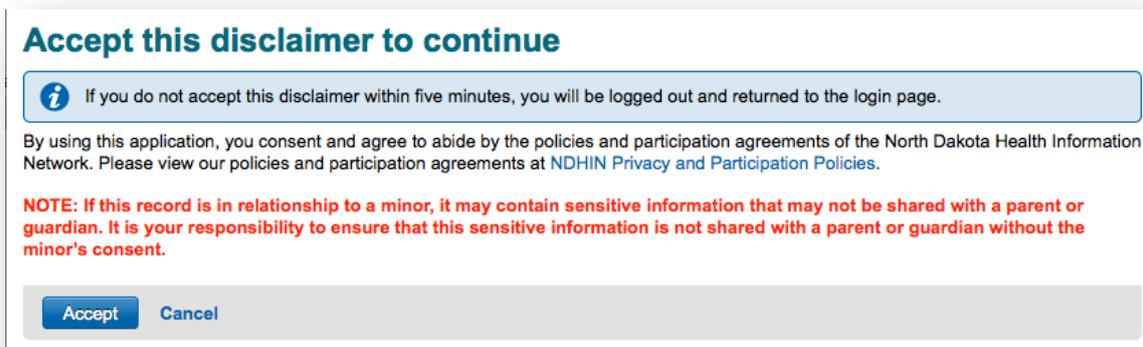


Figure 2: Disclaimer

Clicking on the **NDHIN Privacy and Participation Policies** link will redirect the user to an external website to view the policies.

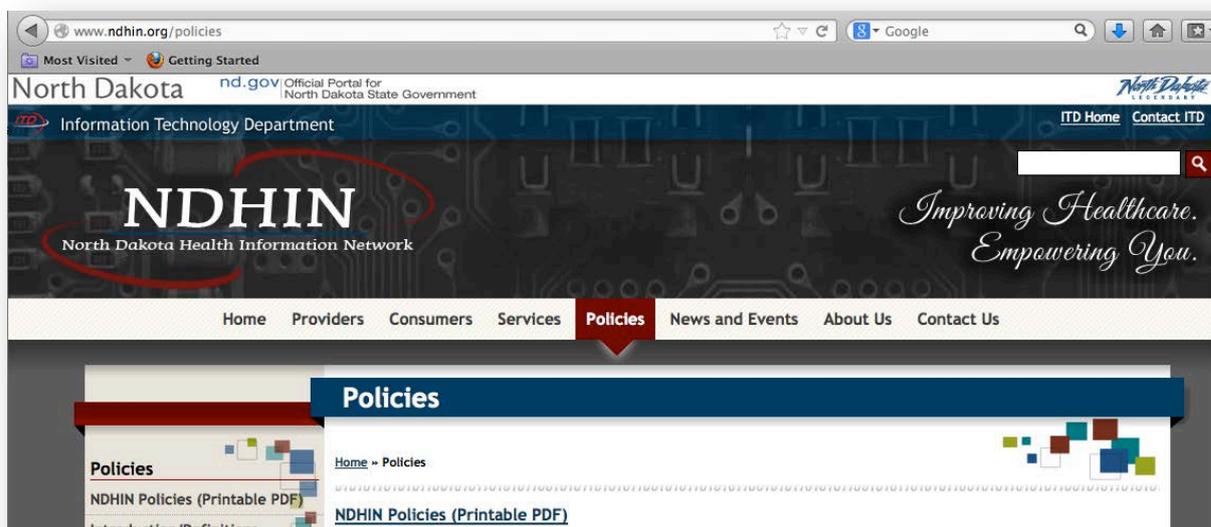


Figure 3: NDHIN Privacy and Participation Policies

Logging out of the NDHIN Clinical Portal

The Logout button is used to exit the NDHIN Clinical Portal. The logout button is located in the upper right portion of the display, to the left of the Orion Health logo.



Figure 4: Logout Button

It is important to use the **Logout** button as opposed to clicking on the X button  of the browser. The Clinical Portal logout button will log the user out of the application and close the session. If the Logout function is not used, the session will remain active for a pre-defined period of time before the auto-logout feature is activated.

Automatic Logout

The inactivity timeout feature in NDHIN Clinical Portal ensures robust security by logging out the user if he or she has been inactive for a pre-defined set of time. The inactivity timeout period is currently set to 30 minutes but may be edited by the user on the **My Details** screen. The user may set the inactivity logout time to increments lower than the time set by the HIE, but not higher. For more information, see the **My Details** section of the user manual.

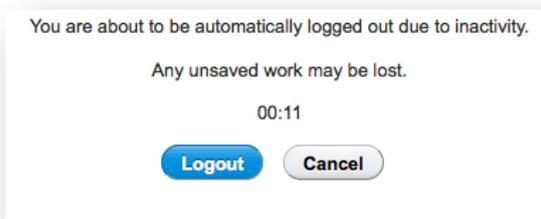


Figure 5: Inactivity Logout Warning

Clicking the Cancel button allows the user to remain active.

Clinician Homepage

The **Clinician Homepage** automatically appears when a user logs in to NDHIN Clinical Portal. The homepage displays summary information relevant to a user. The layout of each user's homepage is composed of one or more windowlets. Windowlets partition the display, allowing a user to see more than one view on a single screen. The homepage for Primary Providers is divided into three windowlets:

- Recent Patients
- My Worklist

Below is an overview of each windowlet.

Recent Patients

The Recent Patients windowlet is a system-generated list of up to 40 patient records most recently viewed by the user. The list of patients is sorted into the following categories:

- Today
- Last seven days
- Last four weeks
- Last twelve months



Figure 6: Recent Patients Windowlet

My Worklist

The My Worklist windowlet displays all worklists or the single worklist selected in My Details. For more information, see the **Worklist** section of this document.

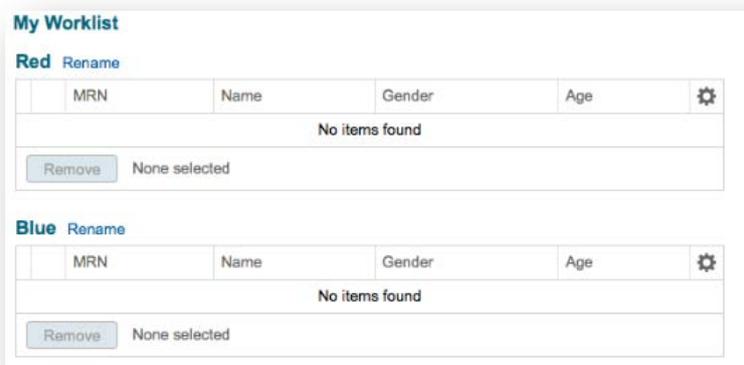


Figure 7: My Worklist Windowlet

Tip: The homepage may be displayed at any time by clicking the **Home** link located at the top of the screen display.

NDHIN Clinical Portal User Interface

NDHIN Clinical Portal User Interface

The Clinical Portal user interface includes menus, icons, buttons and other links for easy navigation. The following terms are used when referring to the Clinical Portal user interface:

- Global Menu
- Portal Menu
- Patient Context Menu – A secondary menu that will display when a specific patient record is in context.

Global Menu

The Global Menu refers to the user account information and the Home and Help options at the top right of the display.

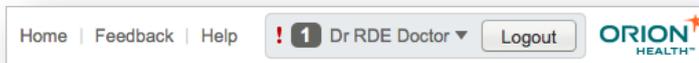


Figure 8: Global Menu Links

Global Menu Item	Function	Description
	Autohide	Hide the menu bar, making more screen space available for viewing information
	Home	Displays Clinician Homepage
	Help	Provides context sensitive help window that relates to the page displayed
	UserName	Current Clinical Portal User
	My Details	Displays My Details screen accessed by selecting the down arrow next to the user name
	Logout	End the current Clinical Portal session
	Last Login	Displays date and time of last user login

Shortcut Keys

The following shortcut keys may be available:

Key	Description
F11	Toggles between a full screen and a standard Windows [®] display. This feature is not available on Mac OS machines.
F5	Refreshes the screen display.
Tab	Moves to the next field on a screen.
Shift+Tab	Moves to the previous field on a screen.
Enter	Activates the current selected button or option.

Portal Menu

Found on the left hand side of the NDHIN Clinical Portal display, the Portal Menu bar is the primary navigation method. Each menu item contains one or more entry point links. The categories are listed down the left side of the screen and can be expanded to display a list of menu items. Access to menus and items within are dependent on the user’s assigned level.

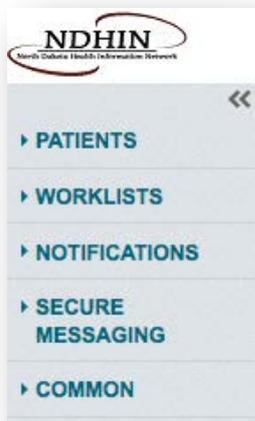


Figure 9: Portal Menu Options

If more options are available than can be displayed, **Up** and Down scroll arrows will display.

Portal Entry Points

The following Portal Menu options and entry points are available:

Menu	Description	Entry Point (Screen)
Patients	Locate a patient’s medical records	<u>Patient Search</u> <u>Recent Patients</u> <u>Worklists</u>
Worklists	Maintain links to the personal patient worklists. The user may change Worklist labels.	Red, Blue, Yellow, Green, Orange Purple
Notifications	Subscribe to notifications to receive a notification when a specific event occurs for a patient or group of patients.	<u>My Subscriptions</u>
Secure Messaging	Compose, receive and send messages to other Clinical Portal users and receive detailed notification messages.	<u>Secure Mail</u>
Common	Maintain user account details	<u>My Details</u> <u>Worklists</u>

Patient Context Menu

The **Patient Context Menu** is visible once the patient’s record is open. The Context Menu displays a focused, detailed view of the patient’s record. When the patient record is open, the Portal Menu will be automatically hidden and only the patient’s details will display.



Figure 10: Patient Context Menu

Additional information on the Context Menu tabs may be found in the Patient Summary, Timeline Front Desk Summary and Laboratory Results Flow Sheet sections of the document.

Patients

Within the NDHIN Clinical Portal Patients menu, the entry points are:

- Patient Search
- Recent Patients
- Worklists

The following sections detail the above entry points.

Patient Search

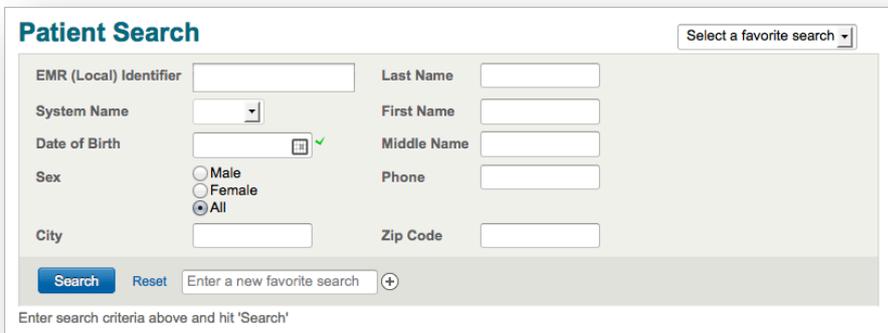
Patient Search allows users to find patients using a selection of search criteria. Once the patient is found, the user may easily access the patient record. Additionally, the search will return close matches (example: Peterson search will return matches for Petersen, Patterson, Pederson).

The patient search allows a user to search for a patient using one or more of the following search criteria.

- The patient's **EMR (Local) Identifier**: The Identifier must be an exact match. If entered as a part of the search criteria, it will take precedence over all other search criteria;
- The **System Name**: Defaults to the preferred patient ID set in the **My Details** page. Note: If the **System Name** is entered, the **System Name** (i.e., the facility associated with the Identifier) must also be selected from the dropdown list.

OR

- **Last Name**: The patient's last or family name. The results are ranked on closeness of fit;
- **First Name**: The patient first name must also be entered. The results are ranked on closeness of fit;
- The patient's **date of birth**. The **patient last name** must also be entered;
- The patient's **sex or gender**. The **patient last name** must also be entered.



Patient Search Select a favorite search ▾

EMR (Local) Identifier Last Name

System Name First Name

Date of Birth Middle Name

Sex Male Female All Phone

City Zip Code

Enter search criteria above and hit 'Search'

Figure 11: Patient Search Screen

Patient Search Results

Up to 15 patients per page (50 total) are returned by a demographic patient search. The results are sorted by the patient's last name (closeness of match) and displays name, date of birth, patient gender, patient phone and patient address. Click Reset to clear search fields and initiate a new search.

Note: If more than 15 results are returned, a **Next** link will appear allowing the user to view the next 15 results. To return to the previous page of results, select the **Previous** link.

Favorite Search

A Favorite Search is a saved set of criteria that can be recalled for later reuse. A favorite search is personal to the user who created it and cannot be seen or accessed by any other user.

To save a favorite search:

- Enter your search criteria to ensure the specified criteria return the expected results.
- Enter a name for the favorite search and click the **Add** icon

The screenshot shows the 'Patient Search' form. At the top right, there is a dropdown menu labeled 'Select a favorite search'. The form fields are: EMR (Local) Identifier, System Name, Date of Birth, Sex (radio buttons for Male, Female, All), City, Last Name (test), First Name (patient), Middle Name, Phone, and Zip Code. At the bottom, there is a 'Search' button, a 'Reset' button, and a text input field containing 'P Test' with an 'Add' icon (+) to its right.

Figure 12: Favorite Search

To access the favorite search:

- Select favorite search name from dropdown

This screenshot is similar to Figure 12, but the dropdown menu 'Select a favorite search' is open, showing 'P Test' as the selected option. The form fields now contain: EMR (Local) Identifier, System Name, Date of Birth, Sex (radio buttons for Male, Female, All), City, Last Name (mouse), First Name (mickey), Middle Name, Phone, and Zip Code. At the bottom, there is a 'Search' button, a 'Reset' button, and a text input field containing 'Enter a new favorite search' with an 'Add' icon (+) to its right.

Figure 13: Access Favorite Search

To delete the favorite search:

- Select the favorite search name from the dropdown to delete
- Click 'X' icon to delete

A close-up of the dropdown menu showing 'P Test' as the selected item. To the right of the dropdown is a small square button containing an 'X' icon, used for deleting the selected favorite search.

Figure 14: Delete Favorite Search

Recent Patients

The **Recent Patient** menu option provides a system-generated list of the patient records most recently viewed by the user. The list can hold up to 50 names. If the list already includes 50 patient names and another patient is added, the oldest entry will be removed. The user can access the patient record by selecting the individual line. The list of patients is sorted into the following several categories:

- Today
- Last seven days
- Last four weeks
- Last 12 months

The result columns displayed are:

- MRN
- Name
- Gender
- Age

Remove from Recent Patient List

A user may remove a patient record from the **Recent Patient** list by clicking the check box next to the patient record and click **Remove**.



<input type="checkbox"/>	MRN	Name	Gender	Age	
<input checked="" type="checkbox"/>	811000 (JPMC);	TESTPATIENT, GYRO	F	36 years	-
<input type="checkbox"/>	SANJ11442 (ECID); SANJ11331 (ECID); SANJ11441 (ECID); 1025635 (JPMC);	TEST, JOHN	M	18 years	-
<input type="checkbox"/>	SANJ11286 (ECID);	TEST, DUKE	M	60 years	-

Remove 1 selected

Showing 3 of 3

Figure 15: Remove Patient from Recent Patient List

Edit Recent Patient List Columns

Click on the **Column**  icon in the far right corner of the Recent Patient List. Selecting MRN, Sex or Age from the drop down list removes the corresponding column from the list display. Name and EMPI columns cannot be removed from the Recent Patient List columns.

Worklists

Worklists allow users to quickly access and manage patient records that may be of special interest. Six worklists are available to each user. Worklists are personal to the user who created them and cannot be seen or accessed by any other user.

Up to 50 patient names can be added to a worklist. If a user adds more than 50 patients, the ones that have been on the list the longest are dropped. See **Worklist** section of the document for additional information.

Patient Record

The patient’s longitudinal record is comprised of several sections:

- Patient Context Menu
- Patient Summary
- Clinical Document Tree
- Timeline

Patient Context Menu

The **Patient Context Menu** is visible once the patient’s record is open. The Context Menu displays a focused, detailed view of the patient’s record. When the patient record is open, the Portal Menu will be automatically hidden and only the patient’s details will display. Categories that relate to the patient in context will display in ‘tab;’ form across the top of the display. The patient context menu for the Primary Provider user displays the worklist flag, patient identification details, context close icon, context list icon, and next and previous item icons. Additionally, the Patient Summary tab, Timeline tab and Laboratory Results tab will also display. To exit the Context Menu and return to the Portal Menu, click the Close icon ‘X’.



Figure 16: Patient Context Menu

Navigation Icons (following table) display when the user is viewing details for the patient in context. These icons will allow a user to move between patients as well as closing the patient details completely and returning to the Portal Menu item. The following table lists the navigation icons and descriptions:

Icon/Link	Function	Description
	Worklists	If a patient is in context, allows the current patient to be added to or removed from one or more of the user's worklists.
	Identification Details	Displays information about the patient record currently displayed; for example, if a patient record is open, it displays the patient's identifier, name, date of birth and gender.
	Context Close	Allows user close the patient details and return to the Portal Menu item that displayed before opening the patient record



Context List

Lists all items in the originating list from which the current item was selected. Also includes the user's most recently visited patient record(s)

Tip: If a user has selected a patient from a list with multiple pages, the Context list icon will allow the user to view the patients from the same page as the patient record currently displayed.



Previous Item

Displays the previous item in the originating list

Tip: If the list contains multiple pages and the current patient is at the start of a page, click the **Previous** icon and a message displays to indicate there are more patients in the list. Click the **Please return to the original list to view more** link to return to the first page of the full list of patients.



Next Item

Displays the next item in the originating list

Tip: If the list contains multiple pages and the current patient is at the end of a page, click the **Next** icon and a message displays to indicate there are more patients in the list. Click the **Please return to the original list to view more** link to return to the first page of the full list of patients.



Patient Summary

Displays a read-only snapshot of the patient's electronic medical record



Timeline

Displays overall perspective of a patient's medical history using a visual representation of encounters and documents available

Patient Summary

The Patient Summary provides an overview of key information. The following windowlets are typically included in the Patient Summary. Note that the exact content and order of the windowlets will vary depending on the information received from participant organizations.

- EMPI Demographics
- Allergies & Alerts
- Medication History
- Problem List
- Encounter History
- Procedures

If the patient summary is not currently displayed on screen, it can be displayed by clicking the **Patient Summary** link at the top of the Document Tree or by clicking the Patient Summary tab.

All of the information in the windowlets can be sorted in ascending or descending order (alphabetic or numeric) by clicking on the column label. Each windowlet has unique default sorting rules and is identified by the label highlighted in **Blue** font and a descending (or ascending) arrow.

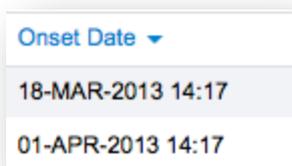


Figure 17: Column Sort

Patient Summary Panels

The following sub-sections describe the Patient Summary panels and the information contained within each.

EMPI Demographics

The demographics panel displays the patient's contact information. If the patient is deceased, this is indicated by the presence of the **Deceased** icon alongside the patient name.

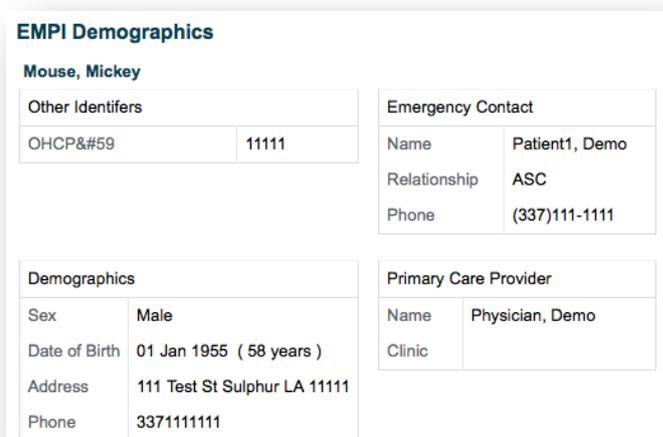


Figure 18: EMPI Demographics Panel

Allergies & Alerts

The Allergies & Alerts panel lists the patient's recorded allergies, sensitivities and medical alerts. The columns displayed are:

- Details
- Reaction
- Severity
- Date Entered
- Source

Allergies & Alerts				
Details	Reaction	Severity	Date Entered	Source
BLACK WALNUT FLAVOR	Breathing Problem.		11-05-1996	OHCP

Figure 19: Allergies & Alerts Panel

Problems

The Problems panel displays a list of current and historic problems for the patient. The Problems panel data includes:

- Problem Description
- Problem Type
- Treating Provider
- Status
- Onset Time
- Severity
- Source

Problem List						
Problem	Type	Treating Provider	Status	Onset Time	Severity	Source
Cerebral Infarction	OHCP	1000000005	OHCP	20-May-2013		OHCP

Figure 20: Problem List Panel

Medication History

The Medication History panel displays a list of current and historic medications for the patient. The Medications data includes:

- Medication
- Dose
- Sig
- Route
- Start date
- Stop date
- Prescribed by

- Status

Medication History

Medication	Dose	Sig	Route	Start	Stop	Prescribed By	Status
AMLODIPINE BESILATE 5MG TAB (GENERIC)	3 mg	Three times a day	Route 2-1 (0 routes not shown)			Dr Joe MARTIN	Active
DIAZEPAM 5MG TABLET	2 mg	Twice a day	route1 (1 routes not shown)		26-Oct-2011	Dr Joe MARTIN	Inactive
ASPRIN 100MG TAB	100mg	Take after meal	Oral (0 routes not shown)	11-Jul-2012	31-Aug-2012	Dr Joe MARTIN	Inactive
OMEPRAZOLE INJ. 40MG VIAL	4 mg	Four times a day	Route3 (0 routes not shown)	26-Oct-2011		Dr Joe MARTIN	Active

Figure 21: Medication History Panel

Encounter History

The **Encounter History** panel displays the patient’s previous contacts with participant organizations. The Encounter History windowlet data includes:

- Admission
- Discharge
- Admit reason
- Discharge diagnosis
- Visit type
- Specialty
- Facility
- Clinician

Encounter History

Admission	Discharge	Admit Reason	Discharge Diagnosis	Visit Type	Specialty	Facility	Clinician
31-Oct-2011	31-Oct-2011			Emergency	Paediatric Medicine		

Figure 22: Encounter History Panel

Procedures

The Procedures panel displays a list of procedures performed for the patient. The Procedures data includes:

- Procedure Code
- Procedure Description
- Date
- Procedure Provider
- Source

Procedures

Procedure Code	Procedure Description	Date	Procedure Provider	Source
99.17	INJECT INSULIN	10-23-2012		Hospital A Medical Center
99.29	INJECT/INFUSE NEC	10-23-2012		Hospital A Medical Center
47.01	LAPAROSCOPI APPENDECTOMY	10-23-2012		Hospital A Medical Center

Figure 23: Procedures Panel

Document Tree

The **Document Tree** is located on the left of the Patient Summary screen and provides links to lab results, diagnostic findings and clinical documents. It has two components:

- An **Options** panel, in which you can filter the patient's listed results by date, document author, service requested or search for a specific word or important results.
- The **Folders** list, which contains the results, reports and other documentation making up the patient's electronic medical record.

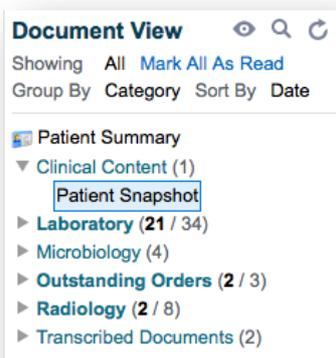


Figure 24: Document Tree

Document Tree Options Panel

All available folders and documents are listed in the document tree by default. Selecting or entering information into the Filter section displayed in the Options Panel can apply filter options.



Figure 25: Options Panel

A user has several filter options that are listed when the **Configure the Document Tree** icon is selected. The options are as follows:

- **Show:** Options are All, Last 72 Hours, Last 14 Days, Last 3 Months, Last..., Specific Range. 'Last....' Allows the user to specify a specific quantity and time unit (days, weeks, months). 'Specific Range' allows the user to enter a specific date range.
- **Group By:** Options are Category, Date (date document received from external system), Service, Author (provider responsible for creating the document)
- **Sort By:** Options are Date, Title, Author

Users may also perform a search on reports in the Document Tree by selecting the **Look For** icon which allows a search for any text contained in the Title (document name), Author, Category, Date and Service. The search can be further refined by selecting the **Important** icon or the Read or Unread buttons. **Note:** The Sign Off icon is not active.

Filter Results

Group By Category

By default, Clinical Portal sorts the folders in the Document Tree by category. If the category filter is selected, the following **category** and **subcategory** folders may be visible in the Document Tree:

- Laboratory
- Pathology
- Microbiology
- Radiology Reports
- Transcribed Documents

An abnormal report in the Document Tree will have the date and title displayed in **red** with one asterisk (*). A critical report in the Document Tree will have the date and title displayed in **red** with two asterisks (**). A normal report in the Document Tree will have the date and title displayed in black, normal font. Unread reports in the Document Tree will be displayed in **bold** font. Reports in the Document Tree that have been viewed by the current user will be displayed in normal font (not in bold).

Group By Date



Figure 26: Date Filter

Group By Service

If the service filter is selected, the folders and documents will be displayed based on the type of associated service.



Figure 27: Service Filter

Group By Author

If the author filter is selected, the folders will be displayed by the provider authoring the document.



Figure 28: Author Filter

Tooltip

Based on the data available for specific results, each document listed in the document tree will have an associated tooltip, which can be viewed by hovering the mouse pointer over the document's title.

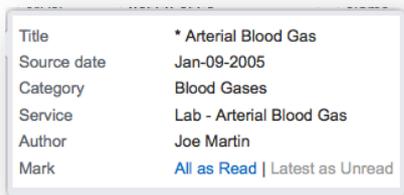


Figure 29: Tooltip Example

Timeline

Timeline gives the user an overall perspective of a patient's medical history using a visual representation of encounters and clinical information available in the patient's longitudinal record. To access the Timeline view, click the Timeline tab on the Patient Context Menu.

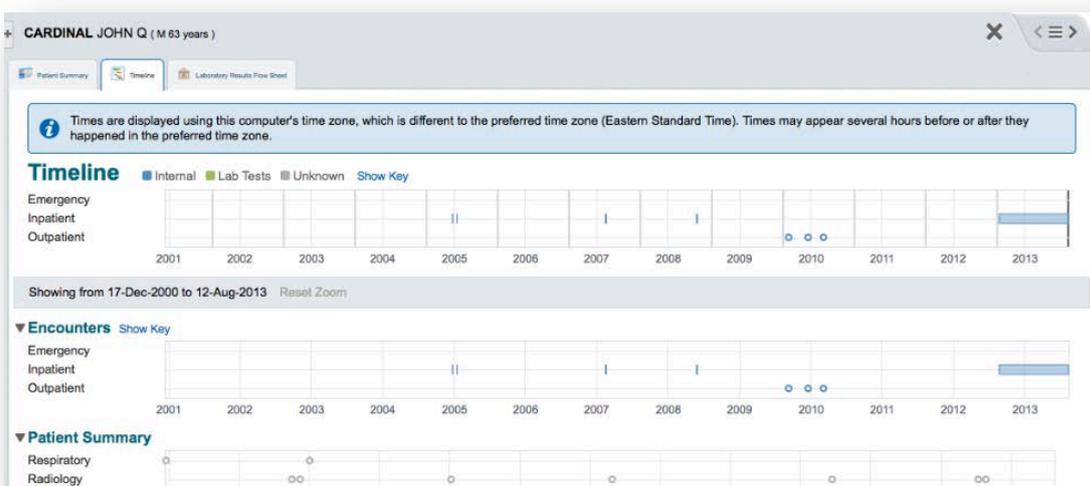


Figure 30: Timeline View

To zoom in on a selected time frame, select a time frame in any panel of the timeline to zoom in on a specified time frame. Click the Reset Zoom link to redisplay the full timeline. To see the details of an item in the Timeline, hover your mouse over the relevant node. The details for the item are displayed, as shown in the following screenshot.

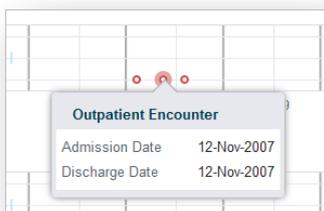


Figure 31: Tooltip Display example

Click the **Show Key** link above each section of the timeline to display the key for that section. A key guide is displayed, advising that the different markers in that section identify. For example, the following screenshot shows an example of the **Encounters** key:

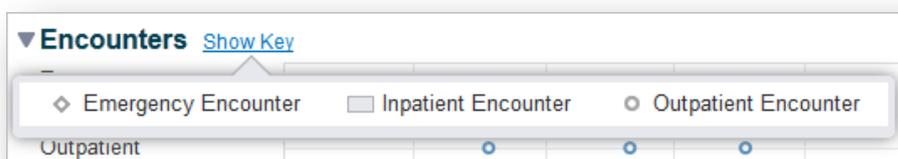


Figure 32: Show Key - Encounters Example

Click the **Collapse** icon to the left of a timeline section name to hide sections of the timeline. This enables the user to hide sections of the timeline that are not immediately relevant. Click the **Expand** icon to the left of the timeline section to display the section again.

Tip: Clinical Portal will remember the sections the user has displayed and hidden. The next time Timeline is accessed, previously hidden sections will remain hidden.

Worklists

Worklists allow users to quickly access and manage patient records that may be of special interest. Six worklists are available to each user within the NMHIC HIE Portal. Users cannot see the names of patients on another user’s worklist, nor can they see the name that the user has given a worklist.

Up to 50 patient names can be added to a worklist. If a user adds more than 50 patients, the ones that have been on the list the longest are dropped.

By default, the following worklists and their display names are available:

- Red
- Blue
- Yellow
- Green
- Orange
- Purple

A patient's record is added to the worklist either one at a time or in a group selected from the results of a search. Once on a worklist, a patient's record can be selected and viewed by clicking on the patient's name. A user may also change the display name by selecting the **Rename** link to the right of the worklist name.

Adding Patients to a Worklist

Adding to Worklist from Patient Search

Users can add patient names to a worklist from the results of a patient search. Select the checkbox next to the patient’s identifier. To add the patient, the user then selects the worklist option from either of the drop-down lists at the bottom of the screen.

Add checked results to worklist: Add the selected patient names to the top of the worklist without affecting the names, which are already on the list. If the results of this action increase the list past the maximum number of 50, the names, which have been on the list the longest, will be dropped off the list

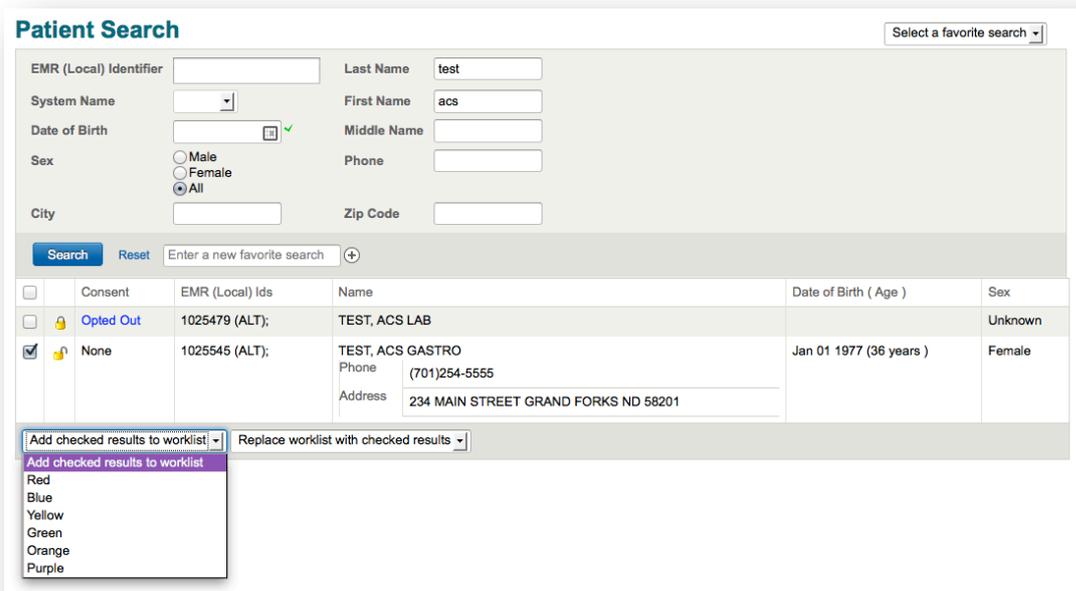


Figure 33: Add to Worklist from Patient Search

Replace worklist with checked results: Replaces all patient names in the worklist with the names selected from the patient search.

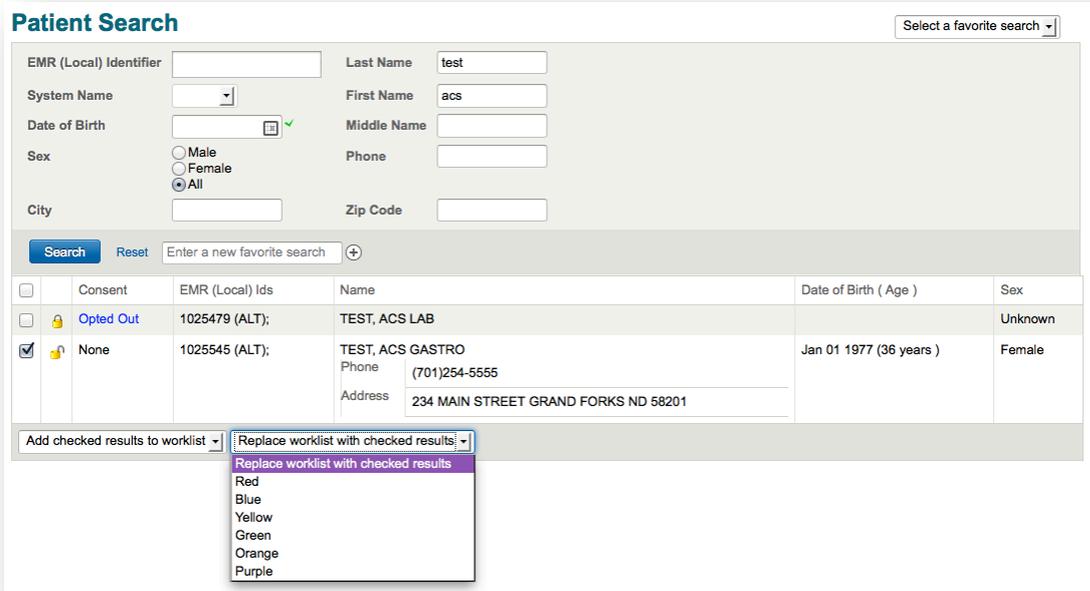


Figure 34: Replace Worklist Names

Adding to Worklist From Context Bar

The **Context Bar** displayed for a selected patient includes a **Worklist** icon, which can be used to manage the user’s worklist memberships. If the patient is currently on a worklist, the flag's background color will match the color of the flag associated with that worklist. If the patient is on two or more worklists, the background color will match the first worklist the patient has been added to, based on the order displayed in the drop down list (red, blue, yellow, green, orange and purple).



Figure 35: Worklist Selection from Context Bar

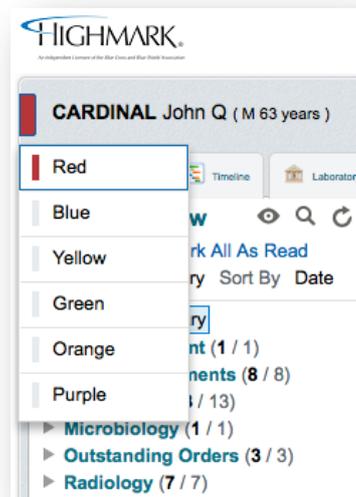


Figure 29: Red Worklist Selected

Customizing Worklists

Renaming a Worklist

A user can rename a worklist to make it more specific to his/her needs. To rename a worklist, select one of the worklist entry points (e.g. Green) from the **Worklists** menu. Alternatively, select the **Worklists** option on the **Patients** menu and select the desired worklist. Select the **Rename** option as shown in the diagram below.

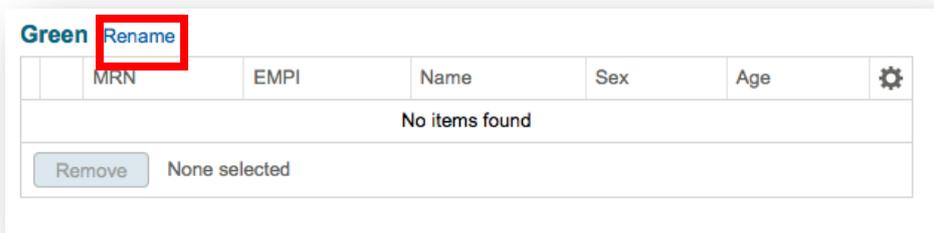


Figure 36: Rename Worklist

After selecting the **Rename** link, the following highlighted field will appear:



Figure 37: Rename Worklist

Type in the new name of the worklist and click the **Save** button. This will change the name of the worklist in all locations for the individual user.

Edit the Columns that Appear on a Worklist

Click on the **Column Selector**  icon in the far right corner of the worklist. Selecting MRN, Gender or Age from the drop down list removes the corresponding column from the worklist display. The Name field cannot be removed from the displayed columns.

Remove a Person from a Worklist

A user may remove one or more patients from a **Worklist** by clicking the check box next to the patient record and click **Remove**.

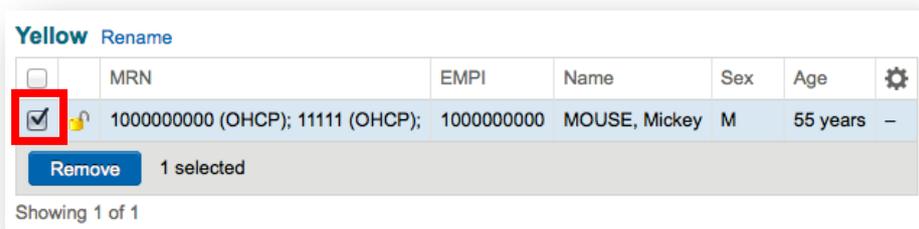


Figure 38: Remove From Worklist

Patient Results

The Clinical Portal uses folders to displays reports. Some folder examples include:

- Laboratory
- Radiology
- Microbiology
- Transcribed Documents

Users may also view cumulative numeric laboratory reports and graph numeric laboratory results.

View a Single Result

When a user selects a laboratory report, the results are displayed based on data that has been transmitted from the source. Laboratory reports are read only. The Header and Results section contents will vary based on information received from the source and type of report or test. The following sample information may be found on the **Header** section of an individual laboratory report:

- **Title:** The title of the laboratory report
- **Collected:** The date and time the test was collected
- **Order Number:** The order number for the test
- **Ordering Provider:** The name of the ordering provider
- **Status:** The status of the results (updated, final or interim)

Electrolytes			
Collected	Apr-24-2006 22:00	Order Number	432567
Ordering Provider	Timothy Orange	Status	Final

Figure 39: Results Header

The **Results** column may display the following information:

- **Test:** The name of the test
- **Result:** The numeric laboratory result
- **Ref. Range (Units):** The reference or normal range and unit of measurement
- **Abnormality:** **Red** displays if it is an abnormal test result along with an (*); **red** displays if it is a critically abnormal test result along with an (**)
- **Status:** The status of the result (updated, final or interim)

Test	Result	Ref. Range (Units)	Abnormality	Status
Sodium	140	135-145 (mmol/L)		Final
Potassium	** 7.5	3.4-4.5 (mmol/L)	Above upper panic limits	Final
Creatinine	0.11	0.05-0.11 (mmol/L)		Final
Glucose	* 7.6	4.0-7.5 (mmol/L)	Above high normal	Final
BUN	2.9	1.3-3.3 (mmol/L)		Final

* Abnormal ** Critically Abnormal

Figure 40: Laboratory Result Details

Expand a relevant heading by clicking on the heading label and selecting an individual result. Results can be displayed in the following formats:

Numeric

A numeric report contains numeric results in a table format and can also include textual observations, as shown in the following screenshot:

Serum protein electrophoresis

Collected 19-Sep-2012 08:25 Order Number ABC122
 Ordering Provider Dr Austin Hart Status Final

Test	Result	Ref. Range (Units)	Abnormality	Status
Serum total protein	* 59	60-80 (g/L)	Below low normal	Final
Serum albumin	* 33	35-50 (g/L)	Below low normal	Final
Serum globulin	26	18-36 (g/L)		Final
SERUM ELECTROPHORESIS	Paraprotein band persists in beta region, type IgAL ,concentration (including beta) 3 g/l Paraprotein band persists in alpha 2 region, type BJP L ,concentration 2 g/l Reduction in gamma globulin			Final

* Abnormal ** Critically Abnormal
* Specimen may have been contaminated on collection. Consider retesting.

Report History

Final Report from Med Lab [Show Version History](#) 4 weeks ago

Access History ▶

Figure 41: Numeric Report

Individual results, which have associated comments, are identified by a letter superscript and the associated comment will display underneath the table. When a numeric result has a textual observation, the full text will display across the **Result** and **Ref. Range (Units)** columns. **Note:** If a reference range is provided, the textual observation will only display in the **Result** column.

Textural

Mole Biopsy

Responsible Dr Joe Martin Observation Date 24-Apr-2008 00:01
 Doctor Modified 19-Jun-2013 23:11
 Hospital City Hospital
 Document Status Final

Gross Description Final
 Submitted in formalin as "chest lesion" is a tan white skin tissue measuring 1.3 by 1.3 by 0.2 cm.
 Centrally located on and covering the majority of the skin tissue is a roughened dark brown area measuring 1.1 cm. in greatest dimension. After inking the margin of excision, the specimen is serially sectioned. The specimen is entirely submitted for histologic study.

Histology Final
 The sections are of skin tissue with a malignant melanoma in association with a nevus. The melanoma cells have abundant pigmentation in some areas while in others assume a more spindled shape appearance. The melanoma fills the papillary dermis corresponding to Clark's level II.
 The tumor at its maximum point measures 1.01 mm. The margins of the shave biopsy on the slide are free of the lesion but not all margins are demonstrated.

Mole Image Final
[JPEG File](#)

Report History

Final Report from City Hospital 5 years ago

Access History ▶

Figure 42: Textural Report

Microbiology

Midstream Urine

Collected	28-Jul-2008 10:05	Status	Preliminary
Received	28-Jul-2008 13:25	Ordering Provider	Dr Joe Martin
Reported	30-Jul-2008 12:38	Order Number	H21161
Source System	City Hospital		

SPECIMEN
FOLEY CATH URINE

ORGANISM: >100,000 PER ML PS. AERUGINOSA (11/4/2006 14:33)

SUSCEPTIBILITY (11/4/2006 14:33)
METHOD: MIC-INTERP BASED ON BLOOD LEVELS
AMIKACIN: 8 SUSCEPTIBLE
CEFEPIME: 8 SUSCEPTIBLE
CIPROFLOXACIN: >2 RESISTANT
GENTAMICIN: 8 INTERMEDIATE
IMPENEM: >8 RESISTANT
LEVOFLOXACIN: >4 RESISTANT
TOBRAMYCIN: 2 SUSCEPTIBLE

RESULT
>100,000 PER ML STAPH AUREUS (METHICILLIN RESISTANT)

RESULT
>100,000 PER ML ENTEROCOCCUS (SENS TO FOLLOW)

RESULT
MIXED CULTURE: PROBABLE CONTAMINATION: PLEASE REPEAT.

RESULT
(ADDITIONAL WORKUP) REQUESTED BY: DR: KONNIKOVA 11/3/06 1200

Organisms (0)

Report History

Interim Report from City Hospital	4 years ago
-----------------------------------	-------------

Access History ▶

Figure 43: Microbiology Report

Radiology

Chest x-ray

Performed	21-Aug-2012 14:32	Order Number	
Ordering Provider	Dr Timothy Orange	Status	Final

Findings Final
 JPEG File

Summary Final
 No signs of heart failure. No recent abnormality shown in the lungs.

Report History

Final Report from City Hospital	12 months ago
---------------------------------	---------------

Access History ▶

Figure 44: Radiology Report

Viewing Historical Results

When viewing a result, the latest version of the result will always display. If there is more than one version of the result, a user can access earlier versions as well as any comments on those versions by clicking the **Show Version** or **Show Version History** links in the **Report History** section. This is applicable for all types of results. Upon selecting Show Version, the user can select Viewing options for version history of the selected result and you can use the **Older Version**, **Newer Version** and **Latest Version** links to further select which version you want to view.

LDL Cholesterol

Collected 16-Jul-2009 12:59 Order Number 34519
 Ordering Provider Dr Benjamin Lewis Status Final

Test	Result	Ref. Range (Units)	Abnormality	Status
LDL Cholesterol	3.33	<3.40 (mmol/L)		Final

* Abnormal ** Critically Abnormal

Report History

Final Report from City Hospital Show Version History	4 years ago
Interim Report from City Hospital Show Version History	4 years ago

[Access History](#) ▶

Figure 45: Report and Access History

Cumulative View of Numeric Laboratory Results

The cumulative report allows users to track trends over time by displaying a series of historical results for the same tests. Each is displayed as a separate column. Cumulative reports are only available for numeric laboratory results. The cumulative report will display the units of measure and the reference range for the specific result. To display the report in the Cumulative view, click the **Cumulative** link from the Single Result view. The screen contains a table of test results over time, allowing easy comparison between the currently selected set of results (with a blue background) and any earlier or later results of the same test, as shown in the following screenshot:

Electrolytes Cumulative

« Show Older | Show Newer »

	1	2	3	4
Number				
Collected	22-Apr 2006	23-Apr 2006	24-Apr 2006	24-Apr 2006
Source	City ...	City ...	City ...	City ...
<input type="checkbox"/> Sodium	140	141	138	140
<input type="checkbox"/> Potassium	4.3	4	3.9	** 7.5
<input type="checkbox"/> Creatinine	* 0.12	0.1	0.09	0.11
<input type="checkbox"/> Glucose	6.4	6.9	6.8	* 7.6
<input type="checkbox"/> BUN	2.5	2.7	2.4	2.9

No tests selected

* Abnormal ** Critically Abnormal § Units or Reference Range differs

Figure 46: Cumulative Report

Results Table

The **Cumulative** report contains a table with the following header rows and body rows:

Header	Description
Number	The number assigned to the test in chronological order based on collection date. This row contains a checkbox for selecting all the tests to show on the Graph panel.
Collected	The collection date for the sample. This header allows the user to show more collections details, as well as display the individual report in the single-result view. To view collection details, hover over the collection date link on the Collected head row.
Source	The source of the result

Graph Results

Once the user has selected the test results (up to 10) to graph, click the **Graph** button to graph the results. The following screenshot is an example of graph results. Hover over any point on the graph for more information about that data point. Information presented in the tooltip is the result value, abnormality (if any), the date/time collected, the reference range, and the source.

To view multiple numeric results in a graph:

- In the Document Tree, select one of the results to include in the graph (i.e. Electrolytes)
- The **Cumulative Results** view displays.
- Select the result(s) you want included in the graph (up to a maximum of 10).
- Click the **Graph** button.
- The graphed view is displayed.



Figure 47: Graphed Results

The first graph is an **Overview** with all the test results. Beneath that are individual graphs for the selected tests. By default, the Overview graph displays the periods covered by the columns in the Cumulative or Flow Sheet view. All graphs are scaled to show the highest value of all the test values.

Overview Graph

The Overview graph shows the different test results over time on a single graph, where each line represents a particular test. The legends for the line colors are displayed below the graph.

The Source panel displays a separate button for each information source with an indication of how many data points on the graph came from that source. In the sample screenshot above, the Overview graph includes 21 data points sourced from City Hospital. By default, the graph displays the results from all sources. To exclude the results provided by one or more sources, click the corresponding button on the Sources panel. Click the button again to show the data points from that source.

The Overview graph allows a user to zoom into a specific period to be displayed on the individual graphs. Move the mouse (left click, hold and drag) to highlight a specific area or period on the Overview graph. This action automatically changes the zoom level for the individual graphs below. The individual graphs are automatically refreshed to reflect the period specified on the Overview graph.

Zoom quick links are links to pre-configured zoom levels. To use the zoom quick links, click the All or Default link below the Overview graph.

- All - Zooms all individual graphs to show all test results. There is no selection indicator (pale blue overlay) in the Overview graph.
- Default - Zooms all individual graphs to show the test results selected on the Flow Sheet. The Overview graph shows the selection indicator (pale blue overlay) over the area of these results.

Individual Graph

Each Individual graph represents a test involved in the result. The graph title displays the name of the test and its corresponding reference unit. The graph shows a data point for each result value. The pink shaded areas (see Figure 47) in Individual graphs represent areas outside the corresponding reference range. If any point in the graph has a differing reference range or unit, the **\$** symbol is displayed next to the title of the graph. To display more information for a specific data point, hover the mouse pointer over the data point on an Individual graph. Details of the data point are displayed, as shown in the following screenshot:



Figure 48: Data Point Tooltip

To return to the previous screen, click the **<test name> Cumulative** link (if **Graph** was accessed from the Cumulative view) or **Flowsheet** link (if **Graph** was accessed from the Flow Sheet) from the breadcrumb trail at the upper-left corner of the panel.

Print a Result

Results can be printed using the **Print** functionality in the Results display. Individual Results, Cumulative Results, Graphed Results as well as Laboratory Results Flow Sheet may be printed. To print a result, open the result and click the **Print** link in the upper right hand corner of the display (see Figure 50 below).

NOTE: It is strongly recommended that you do not use the browser printing functionality (for example, right-click and select the Print option) as this could lead to incomplete information being printed in some cases.

Send a Result

A result can be sent as an attachment to a message to selected recipients. A result can be sent to Clinical Portal users, Direct Secure Messaging users and to configured EMRs. Individual Results, Cumulative Results, and Graphed Results as well as may be sent to another user. To send a result, open the result and click the **Send** link (Clinical Portal), **Send to Direct** link (DSM user) or **Send To EMR** link (the users configured EMR) as shown in the following screenshot:

* CBC (9 years ago) Print | Send To Direct | Send To EMR | Send

CBC Cumulative « Show Older | Show Newer »

<input type="checkbox"/>	Number	1	Ref. Range (Units)
	Collected	15-Jan 2005 04:54	
	Source	City ...	
<input type="checkbox"/>	Hb	11.7	11.1-15.5 (g/L)
<input type="checkbox"/>	HCT	* 32.5	33-46 (%)

Figure 49: Print and Send Options

Continuity of Care Document (CCD)

Patient Snapshot

A generated CCD (or **Patient Snapshot**) gathers key patient information (including Results, Details, Allergies/Reactions, Problems, Encounters, Procedures, Medications and Past Medical History) into a CCD-compliant format that a user can view, save (in XML format), print or send. To populate a CCD, search and select a patient. The **Patient Summary** is displayed. In the left pane, select Clinical Content>Patient Snapshot.

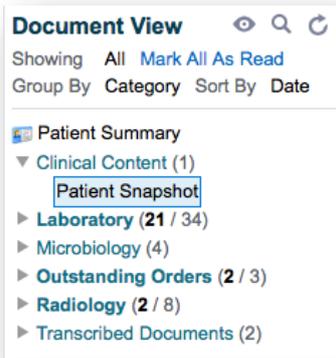


Figure 50: Patient Snapshot – CCD

Information displayed in the CCD is limited to the most recent data available for the patient. The following settings are applied to the summary data:

- Alert, Allergies and Adverse Reactions: All
- Problems: Active and Resolved within the last 182 days
- Medications: Active and with Stop Date within the last 182 days
- Procedures: With Onset Date within the last 182 days
- Results: Within the last 182 days
- Encounters: With Admission Date within the last 182 days

The patient snapshot is generated and displayed, as shown below:

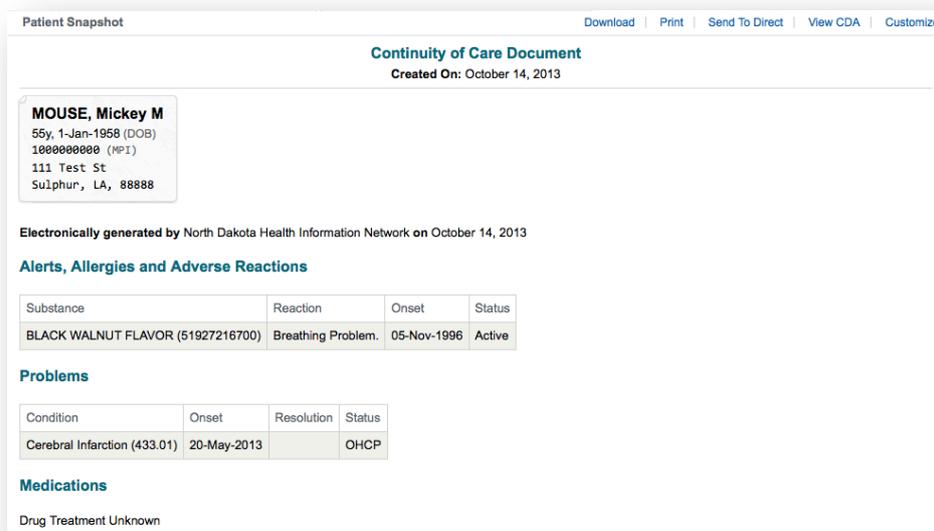


Figure 51: CCD

From this CCD display screen, a user can:

- Download and/or Save a copy of the CCD in XML format by clicking the **Download** button.
- View, save or print the CCD in PDF format by clicking the **Print** button.
A dialog is displayed, asking whether you want to open or save the PDF file.
- Send a copy of this generated CCD (or 'Patient Snapshot') via Direct Secure Messaging by clicking the **Send to Direct** link.
- View CCD (text/HTML format) in a Clinical Document Architecture (CDA) format by clicking **View CDA** button.
- Customize the CCD by clicking the **Customize** link.

Customize CCD

To customize a patient's CCD, click the Customize link. The following window will display:

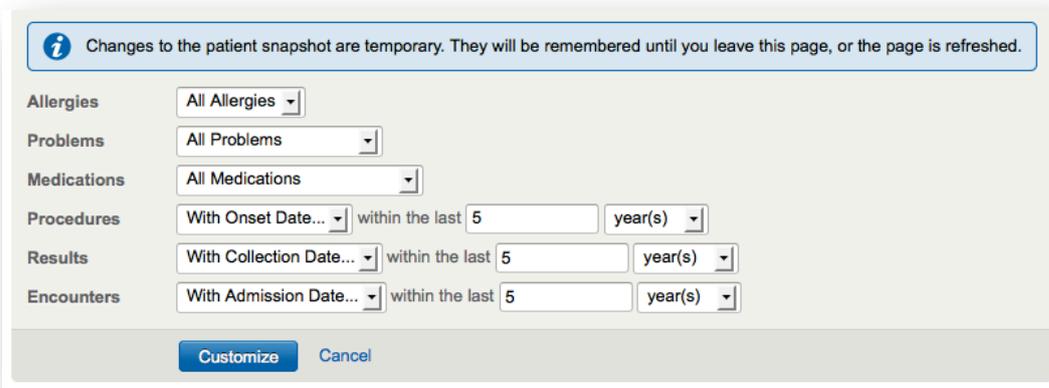


Figure 52: Customize CCD

The default order of the sections within a CCD is the same as displays on the Customize screen:

- Allergies
- Problems
- Medications
- Procedures
- Results
- Encounters

Click the **Customize** button to regenerate the CCE with the changes selected. The CCD customizations will only affect the selected patient in context. If the user navigates away from the CCD, or the Patient Snapshot (CCD) is reloaded, the changes will be erased.

Notifications

My Subscriptions

The **My Subscriptions** entry point in the **Notifications** menu allows a user to subscribe to notifications in order to receive notifications when a specific event occurs for a patient or group of patients with which the user has a relationship. The user is able to subscribe to various notifications based on the relationship he/she has with the patient or patients and the access privileges of the user. If the checkbox alongside a notification event is checked, the user will receive notifications of that event.

The **My Subscriptions** screen, as shown below, displays when selected.

Figure 53: My Subscriptions

Select one or more the delivery options available and **Save** changes. **My Subscriptions** fields are detailed as follows:

Label	Description
Direct	Direct Secure Messaging email address that has been assigned to the user. Messages can only be sent to, and received by users who have access to the Direct Messaging application. Notifications sent to Direct will be detailed in nature.
My Email Address	External email address to receive notifications. If a user modifies the field from this screen, the 'My Details' screen will be updated to ensure both fields are in sync. Notifications sent to this address will be summary in nature and will not include detailed information.

Label	Description
By Default descriptions:	
Notify By Direct (default)	Sends the detailed email to the secure Direct Secure Message Portal
Notify By Email	Sends the summary notification (without patient information) to the email address identified
Notify in Daily Summary Email (default)	Sends a daily summary email (without patient information) of the notifications as opposed to individual notifications

An example of a summary email that does not contain patient information is displayed below:

```

One or more patients for whom you are recorded as the Referring Physician or
Primary Care Provider have had activity at ABC Hospital within the last
24 hours.

The following events have occurred for patients for whom you are recorded as
the Referring Physician:

1 Inpatient Discharge
1 Patient is admitted to ER
2 Inpatient Admission
1 Patient is discharged from ER

The following events have occurred for patients for whom you are recorded as
the Primary Care Provider:

2 Inpatient Discharge
1 Inpatient Admission
    
```

Figure 54: Summary Email - No Patient Information

An example of a message that DOES contain patient information is displayed below:



Figure 55: Secure Detailed Notification

Tip: If the detailed notification message contains an attachment, select **View the Attached Document** link to place the patient in context and view the attached report. This feature is only available when viewing a Clinical Portal Received Message.

Each individual subscription may be manually changed if required. To change the **Delivery Option** of a specific notification check the box next to the Notification to be modified. To select an additional Delivery Option, check the box next to the option and click **OK**. To revert to NDHIN Clinical Portal defaults, click **Use Defaults**. Finally, click **Save** to save the modifications to the notification delivery.

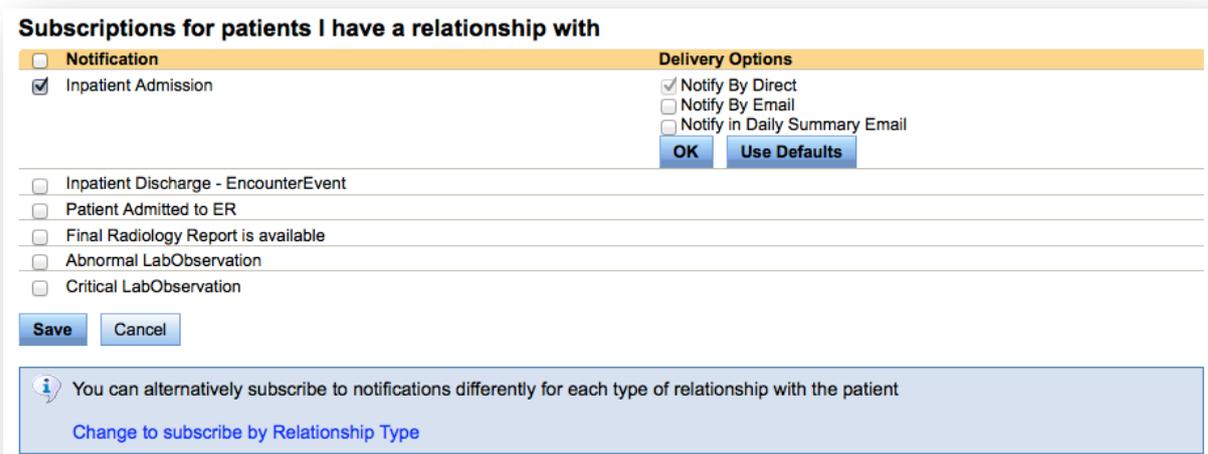


Figure 56: Subscription Delivery Options

Additionally, a user may change notifications based on the type of relationship the user has to the patient or group of patients. To change the notifications by type, click the **Change to subscribe by Relationship Type** link.

You can alternatively subscribe to notifications differently for each type of relationship with the patient

[Change to subscribe by Relationship Type](#)

Figure 57: Change by Relationship type

This action allows a user to subscribe to notifications for Admitting MD, Attending MD, Ordering Provider, PCP, and/or Referring MD roles. Once displayed, the user may change the delivery options for each notification subscription based on the relationship type. Relationship types available are:

- Subscriptions for patients where I am the Attending MD
- Subscriptions for patients where I am the Ordering Provider
- Subscriptions for patients where I am the PCP
- Subscriptions for patients where I am the REF MD

Subscriptions for patients where I am the Attending MD

<input type="checkbox"/> Notification	Delivery Options
<input checked="" type="checkbox"/> Inpatient Admission	<input checked="" type="checkbox"/> Notify By Direct <input type="checkbox"/> Notify By Email <input type="checkbox"/> Notify in Daily Summary Email
<input type="checkbox"/> Inpatient Discharge - EncounterEvent	<input type="button" value="OK"/> <input type="button" value="Use Defaults"/>
<input type="checkbox"/> Patient Admitted to ER	
<input type="checkbox"/> Final Radiology Report is available	
<input type="checkbox"/> Abnormal LabObservation	
<input type="checkbox"/> Critical LabObservation	

Figure 58: Example of Referring MD Notification Options

Messaging

Secure Messaging

Once a Direct mailbox has been established by the HIE Administrator, the user may access the Secure Mail feature within Clinical Portal. Secure Mail is used to send CCDs (or 'Patient Snapshots'), results and documents using Direct (an encrypted email delivery channel) manually to a trusted provider. The Send to Direct functionality is not automatically enabled and must be enabled and configured by the HIE Administrator. This must be an e-mail address that has been registered and granted permission to send secure messages via the Direct Secure Email system. This address will be used in the From and To fields of the outgoing e-mail message, but the user may elect to change the To field when sending the secure email. To access the **Direct Mailbox** click **Secure Mail**.

Secure Mailbox Icons

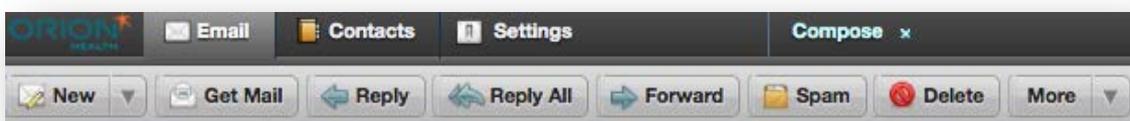


Figure 59: Secure Mailbox Navigation Links

Icon	Description
Email	Email section of the mailbox
Contacts	Saved Email contacts
Settings	Webmail, Anti-Spam, Email Filters and Mail Options settings
New	Select Email or Contact from the dropdown
Get Mail	Refreshes Inbox
Reply	Reply to sender of active email
Reply All	Reply to all email addresses on the email distribution (cc's and bcc's included)
Forward	Forward active email to another recipient
Spam	Move active (checked) email(s) to the Spam folder. Note: A user should never receive Spam emails, as DSM is a secure network. However, should something appear in this folder, please contact the network administrator.
Delete	Delete active (checked) email(s) and move into Trash folder
More	Select from dropdowns including <ul style="list-style-type: none"> • Select All: Allows user to Select All emails that have been received or sent. • Deselect: Allows user to Deselect items selected • Flag: Allows user to Flag emails to stand out • Remove Flag: Allows user to Remove Flags previously selected

Icon	Description
	<ul style="list-style-type: none"> • Mark as Read: Allows user to mark emails received as Read • Mark as Unread: Allows user to mark emails as Unread
Compose	Tab signifies a new message in the draft stage (without subject) and can be deleted by clicking the 'X' to the right of Compose

Working With Messages

This section describes working with messages. Sending, receiving and forwarding messages and attachments will make up the bulk of user work with Secure Messaging.

Inbox

The **Direct Secure Message Inbox** houses user email messages that display when first received. **Direct Secure Messaging** is set up just like most email systems.

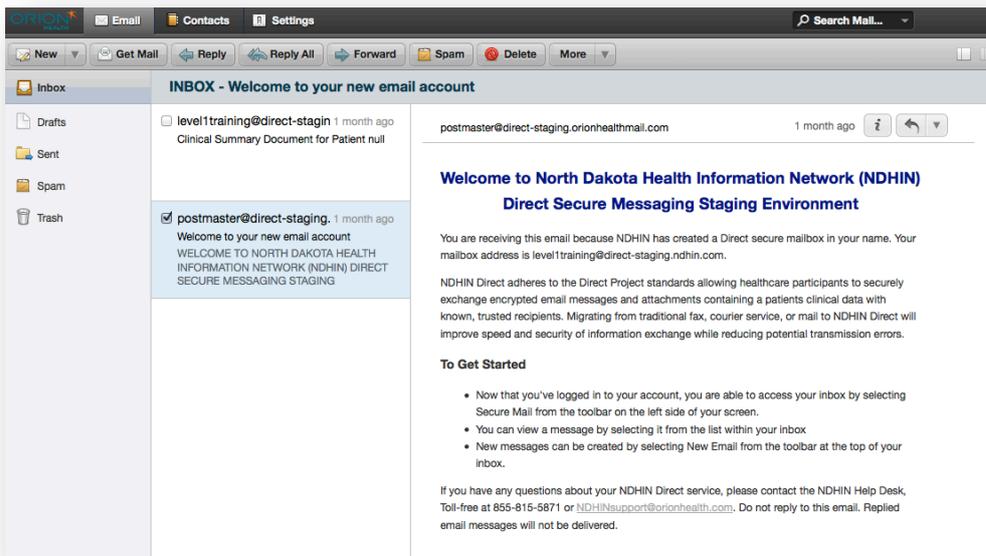


Figure 60: DSM Inbox

To access the Message Inbox, navigate to Inbox (**default display**). Messages in the Message Inbox are displayed as **Unread** messages in **bold text** and all messages are sorted in descending date order.

Click the **Get Mail** icon to refresh the mailbox.

Read and reply to a message

- Navigate to the Message **Inbox**.
- Select a message to open. The message displays in the right pane.
- A message will be marked as read 3 seconds after selection. A User may mark the message as **Unread** again by selecting the **Mark as Unread** dropdown of the **More** tab
- To display message details such as who the message is from, the subject of the message and the date the message was sent, select the Display Message Information icon. . Click again to collapse the message details
- Select the Reply button  (in the top navigation bar or the icon above the message) to reply to the sender of the message, or the Reply All button  (or open the **Reply** dropdown) to reply to all recipients included in the original email.
- Enter the message.
- Click the Send **My Reply**, Save As Draft, or **Add Attachment** button. The replied to message will remain in the inbox and it will display a **Replied** icon  next to the email.
- Select **Toggle Threads** to reveal all emails in the thread, or **Collapse Threads** to stack messages in the thread. To view an individual message within the thread, click on the bolded sender name to reveal the message. Select **Quoted Text** if available to reveal original email.
- Standard editing options are available in the message body such as, font changes, insert hyperlink, add image, bullet and numbering.

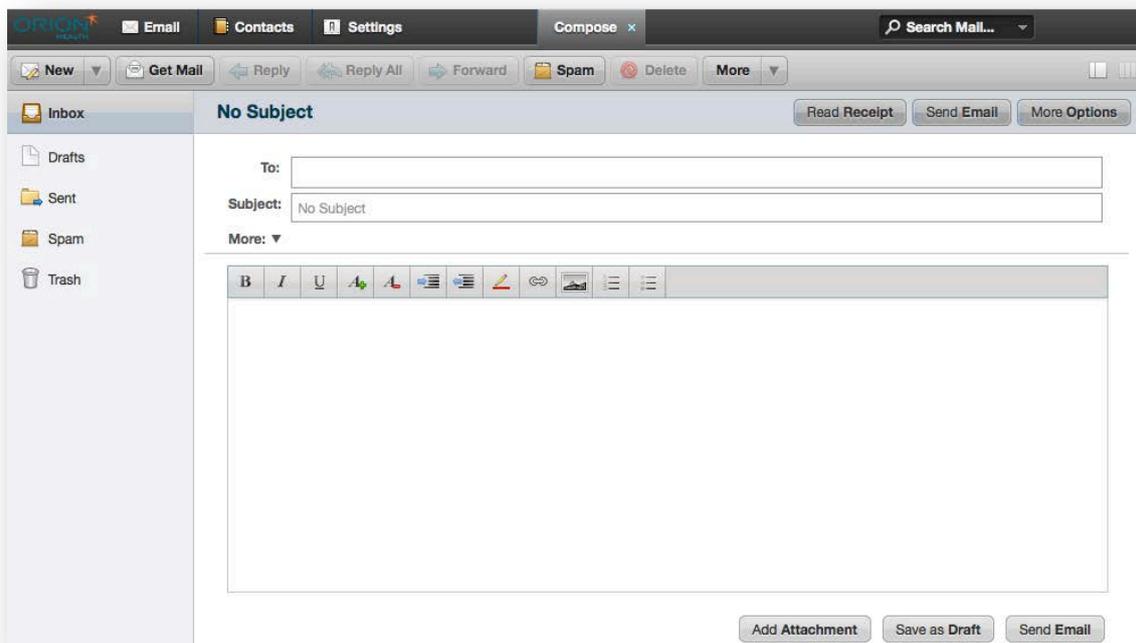
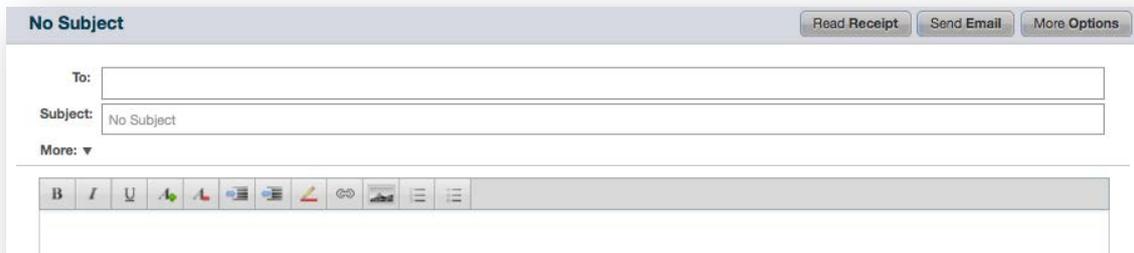


Figure 61: Compose New Email

Send a new message

To compose a new message:

- Select the **New>New Email** button. The **New Message** screen displays in a new tab:



- Complete the required fields in the message such as **To**, **Subject** and the **Message** body. By clicking **More Options**, additional fields are revealed for entry such as **CC** and **BCC**.
- **CC**: Carbon Copy; to send an email to another person besides the recipient
- **BCC**: Blind Carbon Copy; to send an email to another person without any of the other recipients being notified
- **Files**: A list of the files attached to the message. The **Files** field will contain any attachments to the Message with the ability to delete the file prior to sending if necessary.
- Selecting the **Read Receipt** option notifies the sender when the recipient has opened the message. If the sender asks to be notified, the subject line of the message will be preceded with the word **Read**: for example, **Read: John Cardinal**
- Add an attachment, if desired. To do so, select the Add Attachment button, and select the desired file from the library.
- Select the Send Email button to send the message, or the Save as Draft button.

At any point, a message can be saved as a draft by clicking **Save As Draft** button. The message will be stored in the **Draft Messages** folder. By default, a message is automatically saved as a draft every two minutes.

Once a message has been sent it cannot be recalled. A copy of the message will be stored in the **Sent** folder.

Send a Group Message

Rather than add email addresses to a message one by one, you may send a message to an entire group at once. To send a message to a contact group:

- Navigate to **Contacts>[Contact List group]** and click on the contact group to add to the email
- Click the **More** button and **Select All** (all email addresses in the group are selected)
- Click the **Mail** button and a new message screen displays with all selected contacts in the **To** field
- Complete the email as usual, as described previously
- Click the **Send Email** button

Forward A Message

To forward a message:

- Navigate to the Message Inbox by selecting **Direct Secure Messaging>Inbox**.
- Select a message to open it. The message displays in the right pane.

- Select the Forward button. The Forward Message screen opens, containing all the information included in the original email.
- Enter a new recipient, or recipients, in the To field.
- Write the email as described in **Sending New Messages**. All attachments in the original message will be included in the forwarded message by default. The attachments may be removed or new ones added.
- Select the Send Email button to send the message, or the Save as Draft button
- The forwarded message will remain in the inbox and will display a Forwarded icon

Downloading or Printing a Message

To print or download a message:

- Navigate to Inbox and select the message to print or download
- Open the **Reply** dropdown list by clicking on the Expand icon and select either **Download or Print**
- A dialog box will display, prompting the user download or print the message.

Opening and Downloading an Attachment

When a message is received with an attachment, the Attachment icon is displayed next to the message.

To open the attachment:

- Navigate to Inbox and select the message containing the attachment.
- Open the **Reply** dropdown list by clicking on the Expand icon and select **Download**
- User will be prompted to open or save the attachment.

Draft Messages

Draft Messages are messages that have been composed, but not sent. To save a message as a draft, click the **Save as Draft** button. The message is then sent to your drafts folder. By default, a message is automatically saved as a draft every two minutes. To view a draft message:

- Navigate to **Drafts** folder, a list of messages will display
- Select a message to read
- A user may work with the message as described in **Sending a New Message** section or delete the Draft. The user may also print or download the email by clicking the **Reply** icon.

Sent Messages

Sent Messages are messages which have been composed, and sent by the user. To view a Sent message:

- Navigate to **Sent** folder, a list of messages will display
- Select a message to read
- A user may work with the message as described in **Sending a New Message** section or delete the Draft. The user may also print or download the email by clicking the **Reply** icon.

Spam Messages

Spam Messages are messages the user does not wish to receive. Because DSM is a secure system, users should never receive an unwanted message. In the event a user does receive a 'spam' message, the user should contact the DSM Administrator. To mark a message as spam:

- Navigate to **Inbox** folder, a list of messages will display
- Select a message mark as spam
- Click on the **Spam** button on the top navigation bar
- The message will be moved into the Spam folder.

A user may work with the spam message as described in **Sending a New Message** section, delete the message or restore the message. To restore the spam message:

- Navigate to the **Spam** folder, a list of messages will display
- Click on the message to restore
- Drag the message into the **Inbox**

Emptying the Spam Folder

Messages will remain in the Spam folder until the user erases the messages or empties the Spam Folder. To empty the Spam folder:

- Navigate to the **Spam** folder
- Select message(s) to delete and click the **Erase** button, OR
- Click the **Empty** button to delete all messages in the **Spam** folder

Deleting a Message

Users may delete a message at any point by selecting the message, then the Delete button. The message is then moved into the Trash folder. Deleted messages are stored in the **Trash** folder and may be viewed or moved back to the Sent or Inbox folders. Individual messages can be **Eras**ed from the Trash folder or the entire Trash folder can be deleted permanently using the **Empty** link.

As Secure Mail messages may represent Personal Health Information or medical documents, all messages are archived. If a deleted message must be retrieved, contact the DSM Administrator.

Search Email

Within the Direct mailbox, a user may search for mail by typing text in the search box, or selecting the Advanced Search dropdown. The Advanced Search options are Date, To, From, Subject, Body, Unread and Flagged. Select one or more of the search criteria and click Search to return results that meet the Advanced Search criteria.

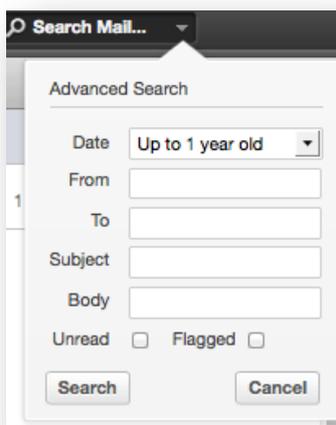


Figure 62: Search DSM Email

Adding and Deleting Folders

Folders allow a user to sort and manage email. Default folders display to the left of the Message Inbox. Default folders are:

- Inbox
- Drafts
- Sent
- Spam
- Trash

Using the mouse, users may drag and drop messages from one folder to another. Email filters may also be used to sort messages into folders automatically. To add or delete folders:

- Click the Add (or Delete) Folder button (+ or -) at the bottom of the folders pane.
- Name the folder (required to Add folder)
- If a sub-folder is required, select the Folder and click the (+) Add Subfolder button.
- Name the sub-folder
- To delete folder or subfolder, click the Delete (-) Folder button. Deleting a folder will also move all messages within the folder to the **Trash** folder.

Contacts

The Contacts tab houses and manages email addresses and contact information to be used within Direct Secure Messaging. Users may store individual contacts, create distribution lists and import or export existing contacts. Clicking the Sync button in the top navigation bar when the **Contacts** tab is active may access additional information regarding the use of the Contacts functions. **Contacts** allow the user to view Contacts (Email Addresses) that are in the system (local domain users). The DSM **Contacts** function has a number of pre-configured groups that the user can use, but cannot delete. At the same time, a user may create groups for individual use.

In DSM, the user can access the **Contact Lists** by clicking in **Secure Mail>Contacts**. Contact lists are a means by which the user can group Email Addresses and find them easily. The list is not a distribution list or a group email list, but a user identified list that the user can categorize Email Addresses.

By using the **More** button the user can select all Email Addresses in the group, then select the **Mail** button and the system will create a new Email with all the Email Addresses in the **To:** field. A Contact list can be used in this manner as a Distribution List if required.

Below is a description of the preconfigured Contact Lists that the user will see when first viewing their Contacts page. They do not need to be used, but they cannot be permanently deleted.

- **Personal:** Preconfigured personal list that a user can add Email Addresses to for personal use. No other user has access to this list.
- **Global:** Preconfigured list that contains all the local Email Addresses in the system. This list is displayed to all users and cannot be copied from this list into other lists.
- **Shared:** Preconfigured list that a user can share with other users. To share with another user:
 - Navigate to **Contacts** and select the **Shared** list
 - Select a contact and click the **Edit** button. The Edit screen displays
 - Turn on **Shared Contact** and add at least one user email address (**Permissions** field) to share the contact with. A smart list will display as the username is typed into this field.
 - Click the **Save Contact** button to share

TIP: New contacts may not be added directly into Shared Contacts folder. Users must add personal contact, then move to Shared Contact folder.

- **Remembered:** Preconfigured list that stores all Email Addresses that have been typed into an Email and subsequently sent the email. This list only remembers Email Addresses that are not already in other folders.
- **Favorites:** Preconfigured list that can be used by the user for any purpose, and is another example of a list.
- **+ - :** These symbols allow the user to create more folders or delete folders they no longer require. When creating a folder, with the + symbol or the button, the user can give any name to the folder. Some special characters are not allowed in the name.

TIP: If the user deletes the Global, Shared, Remembered or favorites Contact Lists, the system will re-instate these folders the next time the user logs on.



Figure 63: Contacts Menu

Add, Edit, and Delete contacts

A user may send a message to an email address which is not in the contact list by typing an address in the To, CC or BCC fields. Secure messaging will automatically save these email address as Contacts in the Remembered folder. To add a new contact, click the **New Contact** button and type the contact's information in the appropriate fields. Additional information may be added using the **More Information** menu, and choose whether to share the contact with other users with the **Shared Permissions** menu. Click the **Save Contact** button to save the contact to the selected address book.

To Edit the Contact, navigate to the **Contacts** screen and select a contact. Click the **Edit** button to make required changes to the contact and click **Save Contact** button.

To Delete the Contact, navigate to the **Contacts** screen and select a contact. Click the **Delete** button to remove the contact. No warning will be displayed and the contact is deleted without a prompt.

Adding more fields

A user can create fields for multiple email addresses, phone numbers, and other information using the green plus sign (+) buttons by each input field. Click the green plus sign (+) to create a new field, enter the appropriate information, and select options from the drop-down menus. Fields may be removed from a

contact by clicking the red minus sign (-) next to the field. Click on **Save Contact** when finished to save the additional information.

Adding a new group

Click the **New Group** button to create a new **Contact** group and name the new Contact group folder. User may add contacts to groups by dragging their names from the contact list in the middle pane to the group's folder in the left pane.

To Delete a Contact List, select the list and click the Delete (-) button.

Deleting Remembered or Sticky Email Addresses

As with all email systems, users send messages to many email address that are not in their contacts or address book and the system will 'remember' these email addresses.

These **Remembered** email addresses are sometimes referred to as **Sticky** email addresses or **Saved** email addresses and are normally automatically displayed when the user starts typing in an email address in the To, CC or BCC lines in the email.

Some systems store these addresses in the contacts / address book lists, and others place these addresses in a separate file on the system. Orion Health's system stores these emails in the Contacts list under the **Remembered** folder.

As a user may type in the wrong email address, or the email address may no longer exist, users may want to delete these **Remembered** or **Sticky** addresses at some stage. To delete these old **Remembered** or old **Sticky** email addresses in the Orion Health's system the user must:

- Go into the Contacts list via the menu button on the top of the DIRECT Secure Messaging screen
- Select the **Remembered** folder on the left hand menu
- De-select the top Direct Email address that is selected by default
- Select the Direct Email address(es) to delete
- Select the **Delete** button from the menu bar (second from the top)
- The entry is deleted with no prompt

When a new email is started this deleted **Remembered** Direct Email address will **not** be displayed. Be aware that any saved draft emails may still display the deleted address. Only newly started emails (after the delete process) that will not display the deleted email address.

Exporting and Importing Contacts

A user may import or export contacts in *vcard.vcf* format. A .vcf or vCard is an electronic business card. The standard format allows data to be shared between different mail programs.

DSM supports the vCard format for address book import and export. To save contacts to a vCard file, select the check boxes next to the contacts you'd like to export, then click the "Export" button. Select the name and location to save your .vcf (vCard) file and confirm (e.g. Outlook). To import contacts from a vCard file, click "Import" and choose the .vcf file from the file selection dialog. Click the **More** button and select **Export All** to export all users in a contact list.

Sync

The **Sync** link provides **Email**, **Address Book** and **Settings** help. Some features and options accessed from the **Sync** link may not be available to all users.

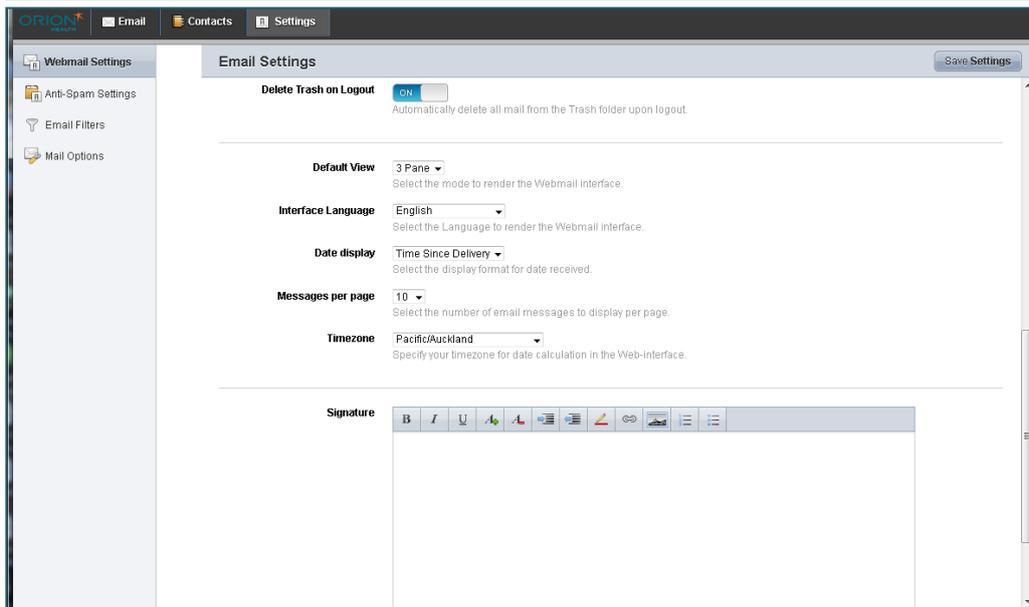
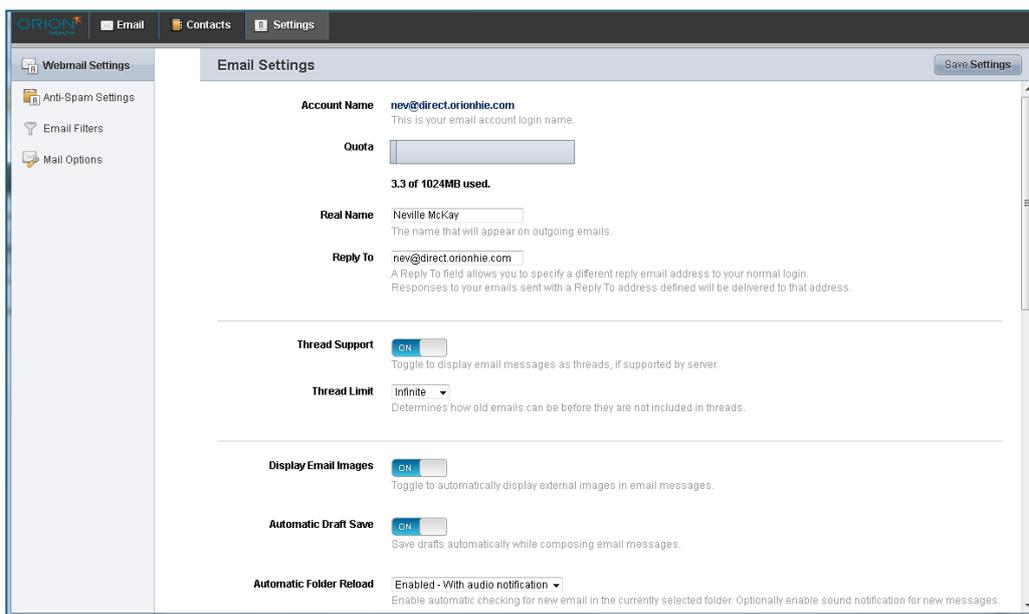
Settings

DSM allows the user to customize the look, feel and performance of DSM using the Settings screens. The following settings folders are available:

- Webmail Settings
- Anti-Spam Settings
- Email Filters
- Mail Options

Webmail Settings

To access Webmail Settings navigate to Settings tab>Webmail Settings folder.



The following fields are available to view and/or edit:

Field Label	Description
Account Name	Displays email account name.
Real Name	This will appear in the Sender field of sent emails before the email address.
Reply To	Specify an email address for replies to be sent to, instead of the email address used to log in.
Thread Support	Check this box to display email conversations as threads.
Thread Limit	Select from dropdown age of email to be included or excluded from thread. Available options are 3 months, 6 months, 1 year, 2 years or infinite.
Display Email Images	Select to display external images in email messages rather than as an attachment.
Automatic Draft Save	Select to automatically save draft emails while composing, default is every 2 minutes.
Automatic Folder Reload	Select to enable auto reload and/or sound notifications
Delete Trash on Logout	Select to automatically delete all mail from Trash folder upon logout
Default View	Select 2 pane or 3 pane view
Interface Language	Select preferred language for the Webmail interface.
Date Display	Select display format for date received on email headers (MM/DD/YY or DD/MM/YY)
Messages per page	Select the number of simultaneous messages to display in the Webmail interface. Reduce the number if the user connection is slow.
Time zone	Specify the time zone for user location.
Signature	Specify a message that will be added to the end of every email sent from Webmail. Options include plain text or HTML for the signature.

After modification of settings, click the **Save Settings** button to preserve Webmail Settings.

Anti-Spam Settings

As the DIRECT system is a Trusted network of Email providers, a user should never get any spam emails in this folder unless a filter has been set up to move emails in this folder. Changing the standard settings is not recommended.

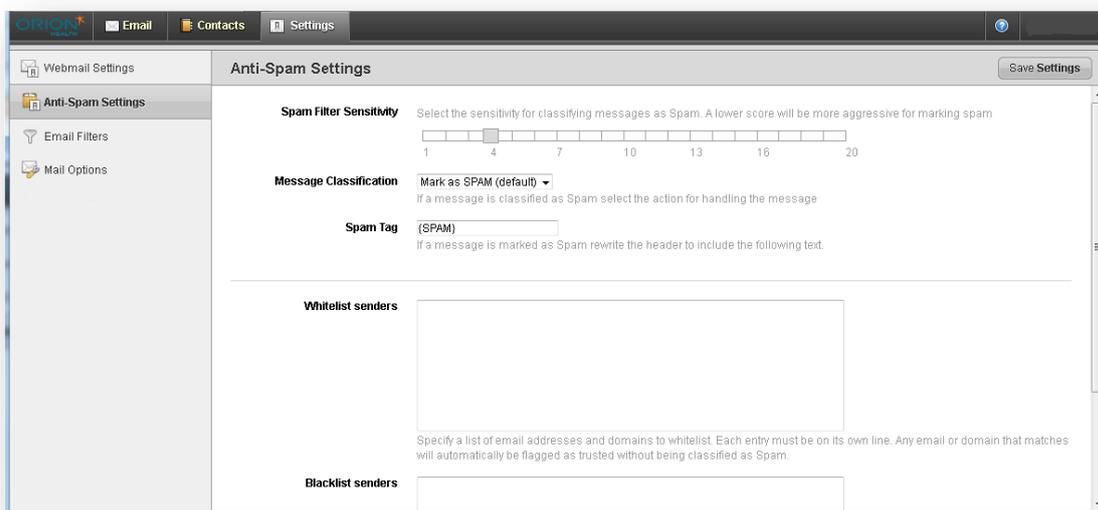


Figure 64: Anti-Spam Settings

The following options are available if the user opts to change the settings:

Field Label	Description
Spam Filter Sensitivity	Set the degree (1-20) to which the spam filter looks for spam within emails. A lower score indicates more aggressive spam marking.
Message Classification	The default action to take on emails that are classified as spam. (Mark as Spam, Move to Spam Folder, Purge Message)
Spam Tag	The wording to be added to the email header if an email is considered to be spam.
Whitelist senders	Senders or sender domains that send emails but the spam filter picks up as spam. Placed in this field, all emails from these senders or sender domains are delivered regardless of their content.
Blacklist senders	Senders or sender domains that are believed to be sending spam. Senders or sender domains placed in this field will be blocked.

After changing settings, click **Save Settings** button.

Email Filters

Email filters allow users to sort and manage emails into folders automatically.

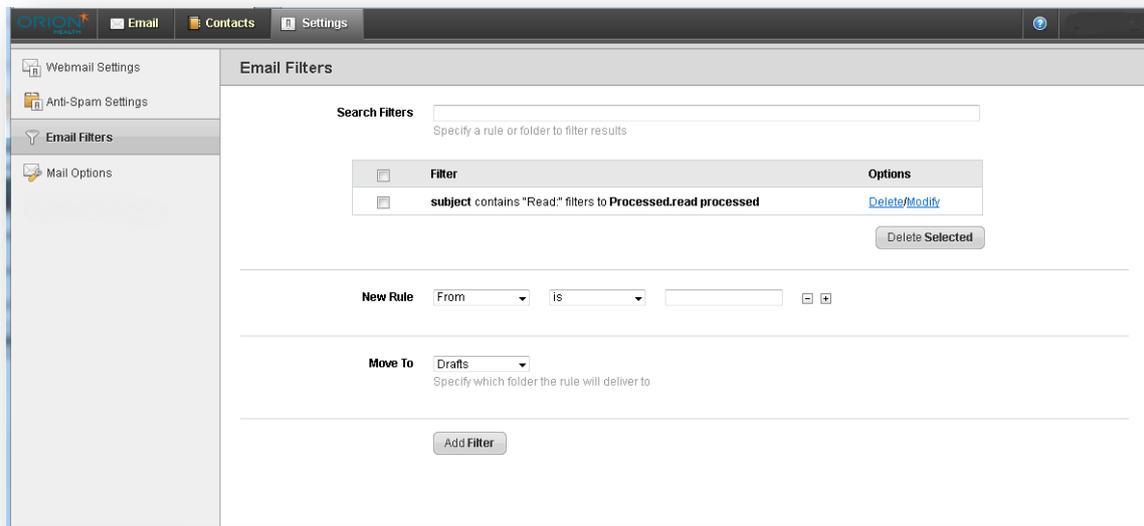


Figure 65: Email Filters

Optional email filters and settings are:

Add New Rule: Use this option to create email filters. Select from the drop down list 'From', 'To' or 'Subject'. Then select from second drop down list 'is', 'is not', 'contains' or 'does not contain'. In the text box enter criteria to be filtered, then specify which folder the rule will deliver to. For example, New Rule: 'From', 'is' and 'account@domain.com'. Move To: 'Trash'. This will move all emails received from account@domain.com to the trash folder. To add a new rule:

- Navigate to **Settings>Email Filters**
- Create a new rule using the dropdown lists
- Click **Add Filter** to add the new rule

A user may also Delete or Modify a filter by selecting the rule and clicking on **Delete/Modify** button. Select the filter to delete (tick the box) and click **Delete Selected**.

Mail Options

Mail options in DSM include features such as auto-reply and notifications. The auto-reply feature allows the automatic reply to any received email. This feature may be useful if the user is unavailable to answer emails for a period of time. The notifications feature allows a user to be notified of a DSM email to a separate nominated external email account, which will direct the user to the DSM system. The notification messages do not contain message details, only a link to DSM. Sign-on and validation must occur prior to viewing the DSM email.

Field Label	Description
Enable Notifications	Check this box to enable notification of new email to a non-Direct email address. Only one email account may be designated to forward notifications. DSM Notifications are managed separately from Clinical Portal notifications.
Notifications Address	Specify the email address to forward incoming notifications.
Enable Autoreply	Check this box to enable automatic reply (Vacation or Out of Office) to incoming messages.
Autoreply message	Enter the message to send to the senders of all incoming email.

After making changes to Notifications or Auto-Reply, click **Save Settings** button.

Common

My Details

My Details is located in the **Common** tab of the menu bar. It allows the user to change passwords, set the inactivity timeout period, and view or enter information in the **My Attributes** section.

Figure 66: My Details

The following fields are available for user editing on My Details page:

Change My Password

Selecting the **Change Password** button allows a user to change his/her user password. This should be done regularly and in fact there may be an organizational policy requiring this.

Figure 67: Change Password Window

Password Policy

The password policy for all users is as follows:

- Passwords must be at least 8 characters long
- Password will expire every 90 days for all users
- Passwords must be 'strong' (upper and lower case, number, special character)
- Dictionary words within password are considered 'weaker'
- Accounts will be locked out after 3 bad login attempts (counter and account reset after 15 minutes)
- Username may not be used as a password
- Inactive users may be disabled in 90 days

Set Security Question

The Forgot Your Password link allows a user who has forgotten their password to gain access to Clinical Portal by (correctly) answering the secret question they have configured on their **My Details** screen. This means Help Desk or other support staff do not need to be involved when a user requires password assistance by utilizing the Forgot My Password link on the sign-in screen.

Select the Set Security question or Change Security question button allows a user to create or change his or her Security Question.

Figure 68: Secret Question

- Select a Secret question from the dropdown
- Enter the answer to the secret question
- Enter the current log-in password
- Click OK

Start Screen (Homepage)

The **Start Screen** is displayed following login to the portal or when the **Home** button at the top of the menu bar is selected. If this field is blank, the default Clinician Homepage will be displayed. Select one item from Start Screen dropdown the user would like to display following login. Selecting one option from the Start Screen dropdown will override the pre-configured Homepage windowlets.

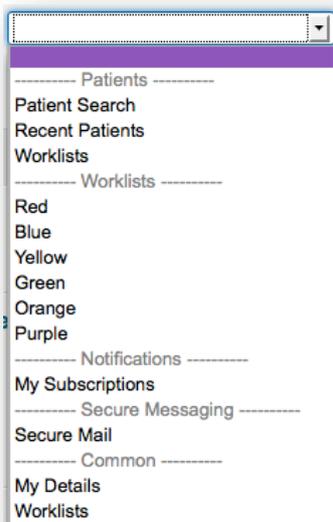


Figure 69: Start Screen (Homepage) Options

Inactivity Timeout

In order to provide a secure environment, a default timeout of 30 minutes has been set by the HIE Administrator. On this screen, a user can set an inactivity timeout period for his/her account that is less than the 30-minute maximum timeout. This setting ensures that the user will be logged out of NDHIN Clinical Portal if the user does not register 'clicks' on the account for the number of minutes equal to the inactivity timeout value.

Roles I Perform

There are 4 User Levels plus 4 Administrative Levels: Level 1 – 6b (See **Functional Roles Matrix** for more details). These roles are:

1. Level 1 View
2. Level 2 View
3. Level 3 View
4. Level 4 View
- 5a. NDHIN Administrator Level
- 5b. Participant Administrator Level
- 6a. NDHIN Privacy Officer Level
- 6b. Participant Privacy Officer Level
7. EMPI Admin/Opt Out Administrator Level

Groups I Belong To

This section lists the user's group membership that determines access to NDHIN Clinical Portal screens and functions.

Additional User Attributes

Group attributes may be added to allow an administrator to gather additional information about the user or to provide additional features to the user. The following attributes have been pre-configured for a user:

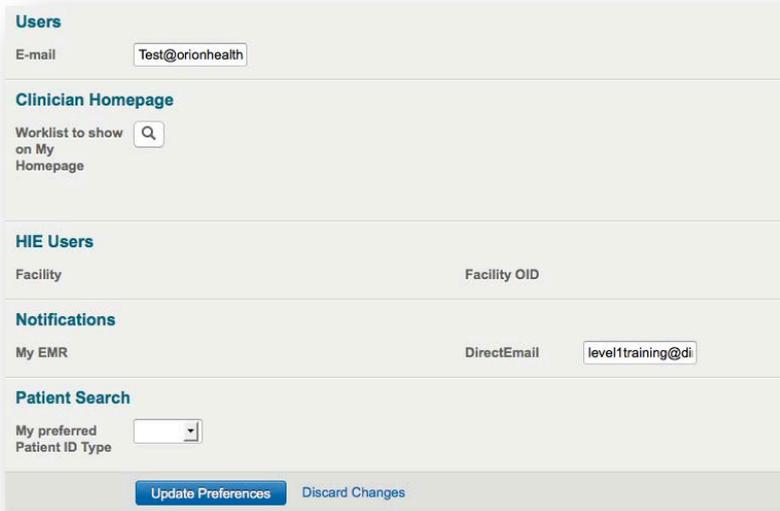


Figure 70: User Attributes

Users

The **Users** field displays the user's email address and can be edited by the user.

Clinician Homepage

The user may set the content for the worklist windowlet appearing on the clinician homepage:

- **Worklist to show on My Homepage:** Allows the user to set the worklist (and the patients that will appear on it) on the homepage. Select the **Worklist to show on My Homepage**  icon to select the worklist. If a worklist is not selected on this screen, all six worklists will appear on the homepage.

HIE Users

The HIE Users field displays the user's primary facility. This field is set by the NDHIN HIE Administrator and is not editable by the user.

Notifications

The Notifications field displays the attributes identified for user notifications. Notifications may not be available to all user levels. The following Notification options may be available:

- **My EMR** – Displays the EMR configured and associated with the user (not active)
- **DirectEmail** - The Direct Secure Message address used to send CCDs, results and clinical documents.

Patient Search

The My Preferred Patient ID Type field is used to set the preferred patient identifier to display on Patient Search. The Patient ID Type identifies the facility associated with the patient's medical number that will be used most often in Patient Search.

Patient Privacy Policy

Patient Privacy Policies have been enabled to control access to patients. This access is based on the following:

- The user's relationship with the patient
- The patient's HIE opt-in/out status

Access Descriptions

Locked : The patient's name will be visible in a list of search results, but cannot be selected and unlocked. The patient has not opted out and user does not have 'Break the Seal' privileges.

Privacy sealed : The patient's name will be visible and can be selected, but a reason for access will be required before the patient can be placed in context and their medical details viewed. Providing an access reason is referred to as 'Opening the privacy seal'. Once this has been done, the user will be able to access that patient's record for a limited period of time without having to re-apply the reason. This time is configurable (as a single global variable for the whole solution) and the default is 1 hour. If the clinical user ends his/her Portal session, all open privacy seal access is ended and he or she will need to re-supply the reason for viewing restricted information.

Unlocked Patient Record : The Privacy Seal is opened for a patient and the patient's medical record is accessible.

Full Access (No Icon): Unrestricted access to clinical data/documents in the patient's medical record for users with appropriate privileges and patient relationship.

No Access: The patient is visible in search results (demographics only) and cannot be selected.

State Descriptions

There are two defined consent states a patient's record can be in depending on whether the patient has opted-in to the HIE. These two states are:

OptedIn (Patient has opted-in)

- Level 6a, 6b and 7 => Limited access to allow ability to opt=in/out
- Provider has a valid relationship with patient => Full access
- Provider does not have a valid relationship with patient => Privacy sealed access

OptedOut (Patient has opted-out)

- Level 6a, 6b and 7 => Limited access to allow ability to opt-in
- Users => Locked

Breaking the Privacy Seal

The expiration for providers that break the privacy seal is 1 hour. List of reasons for when the user 'breaks the seal':

Access Request	Reason
I Need to View Information About This Patient Because: This is an Emergency situation	Emergency Access

OR

Access Request	Relationship
I Need to View Information About This Patient Because: I Have the Following Relationship With This Patient (select one):	Attending Clinician
	PCP
Notes: Comments are not required	

All instances of privacy override are recorded and documented.

Appendix A

Functional Roles Matrix

Role Description	Clinician Homepage	Front Desk Homepage	Administrative Homepage	Patient Search	Recent Patients	Patient Worklists	Patient Demographics	Patient Encounter History	Patient Allergies	Patient Medications	Patient Problems	Patient Lab and Pathology Results	Patient Radiology Reports	Patient Transcribed Documents	Break the Seal (Patient Record)	Notifications	Direct Secure Messaging
Level 1: Primary Provider	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x
Level 2: Secondary Provider	x			x	x	x	x	x	x	x	x	x	x	x	x		x
Level 3: Care Support	x			x	x	x	x	x	x	x	x	x	x	x	x		
Level 4: Front Desk		x		x	x	x	x	x									

Appendix B

Browser Support

Full Support

Firefox 3.5, 3.6, 4 on Windows

Firefox 3.5, 3.6, 4 on Mac OS X

Internet Explorer (IE) 7, 8, 9 on Windows

iPad iOS4, iOS5, iOS6

Limited Support

Support for Safari is limited to Rhapsody Administrator & Conductor only

Support for Chrome is limited to Rhapsody Administrator & Conductor only

Internet Explorer (IE) 10 on Windows

Connectivity

A dedicated Internet Connection (DSL, Cable Modem, etc.) with an Internet Service Provider (ISP) is required to access Clinical Portal.

Any questions regarding this documentation can be directed to:

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