ClinicalConnect™ Pharmacy Module:
Viewing Data from the Digital Health Drug Repository

ClinicalConnect is integrated with the **Digital Health Drug Repository (DHDR)**, which is a provincial information source of publicly funded drug and pharmacy services and all monitored drugs (regardless of payor). Before viewing the DHDR information in ClinicalConnect, please review the Digital Health Drug Repository (DHDR): Guide for Clinical Use found on Ontario Health's site that provides information for end users to appropriately interpret and use the information provided via the DHDR and meets the Ministry of Health's mandatory training requirements for use of the DHDR. The complementary DHDR Data Reference Guide provides a summary of the DHDR information.
More information about the DHDR can be found on the eHealth Ontario website at;
www.ehealthontario.on.ca/en/support/dispensed-medications.

In ClinicalConnect, DHDR information is presented in two tabs within the **Pharmacy module** called **Home Med Drugs** and **Home Med Services**, allowing clinicians to easily access and view the information from any desktop or mobile device as shown below. In addition, users have the ability to print customized DHDR reports which can be used to support 'Best Possible Medication History' practices along with input from the patient or his/her Substitute Decision Maker (SDM).

⚠️ Note: Provincial repositories such as the DHDR retrieve information based on the patient's Health Card Number (HCN). In cases where the HCN is not available or invalid, data from provincial repositories will not be accessible in ClinicalConnect. In addition, access to DHDR information in ClinicalConnect is limited to users of Participant Organizations that have signed the appropriate eHealth Ontario access agreement(s).

Desktop View - Pharmacy Module

Home Med Drugs and Home Med Services Tabs
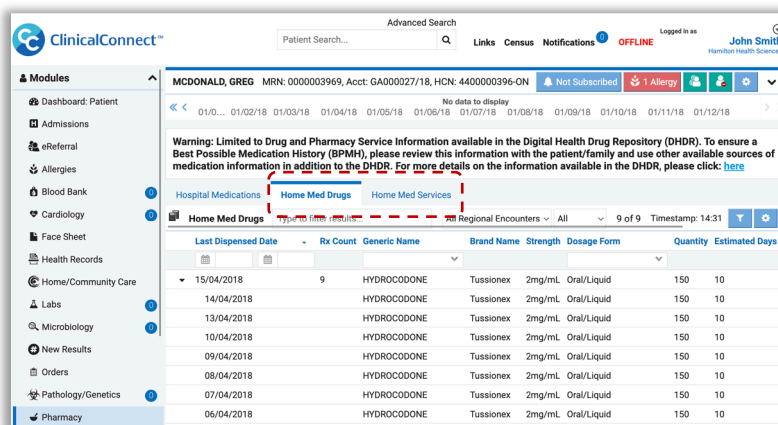
Mobile View

Home Med Drugs and
Home Med Services Icons

Pharmacy Module: Home Med Drugs

The Home Med Drugs tab displays information pertaining to a patient's Ontario publicly-funded drugs dispensed by community pharmacies as well as all monitored drugs (regardless of payor) and COVID-19 vaccination information from COVaxON (the ministry's provincial solution for COVID-19 vaccination information), if available from the Digital Health Drug Repository (DHDR).
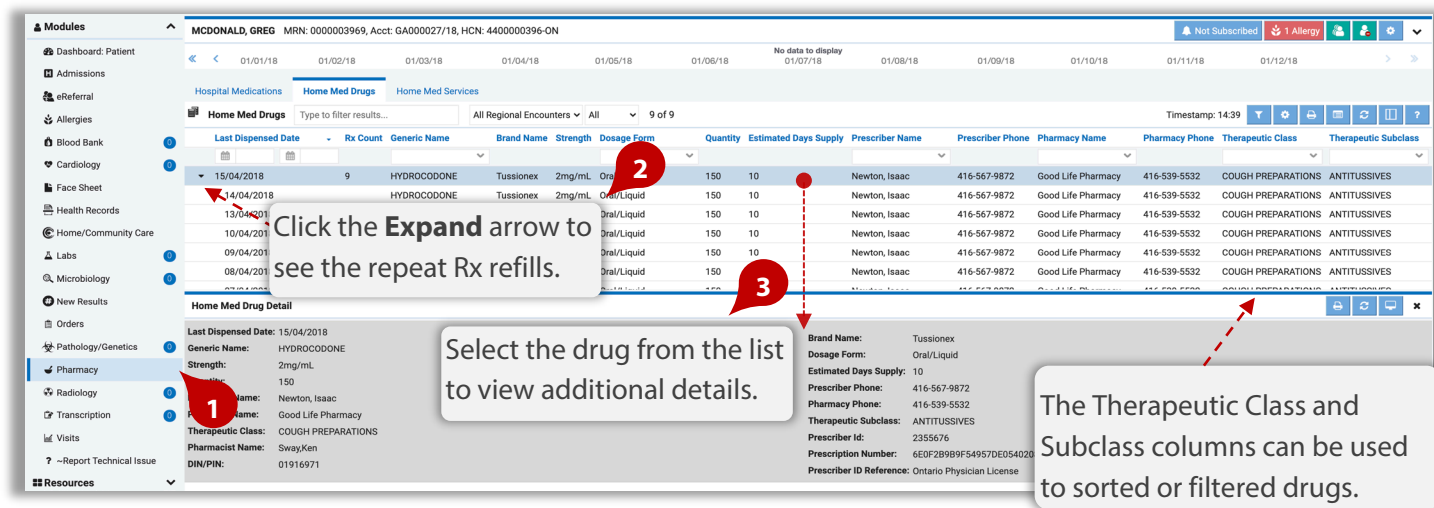
To access Home Med Drugs information in ClinicalConnect:

1. Select the **Pharmacy** module.
2. Select the **Home Med Drugs** tab. The Home Med Drugs tab is the default view for users who are authorized to access DHDR, unless the user has changed their preferences.

💡 To view Home Med Drugs or Services from the DHDR, ensure that the **Encounter** filter is set to **All Regional Encounters**. The **Days Back** default filter is set to 180 days by default but can be modified. If no DHDR data is available for the patient within the selected days back parameter, the following message will display: **No records found for search time period**
In this case, increase the number of Days Back to check for additional data. This filter can be set to a maximum of **ALL**, however this setting may impact data retrieval speed if returning large volumes of pharmacy data.

Meds in 'Rolled Up' Format
- Medications with the same Generic name, Dose/Strength and Dosage Form display in a collapsed "rolled-up" format, showing the most recently dispensed med first and can be expanded to see each repeated medication line item by clicking the **Expand** arrow, as shown below.

3. Any drug listed in the view can be selected to display additional information. To view the medication details, select it from the list to display the associated details. For more information regarding details provided with Drugs and Services contained in the DHDR, refer to the [Digital Health Drug Repository (DHDR): Guide for Clinical Use](#).

❗ *Note:* that any Drugs & Services information dated **June 6, 2018** or earlier displays in the Home Med Drugs Tab. Drugs and Services with a dispensed date on or after **June 7, 2018** displays in two separate tabs; **Home Med Drugs**, and **Home Med Services**.

Data Columns in the Home Med Drugs Tab

Several columns of data are presented in the Home Med Drugs tab as shown in the image below. Depending on your screen size, you may need to scroll to the right to see all available columns of data.


The table below describes the data columns in more detail. Refer to the Digital Health Drug Repository (DHDR): Guide for Clinical Use for important details and key interpretation notes.

Last Dispensed Date

The date when the pharmacy processed the payment claim for the dispensed medication or pharmacy service. This date does not necessarily reflect the actual date that the recipient picked up the medication or received the pharmacy service, nor that the patient picked up the medication.
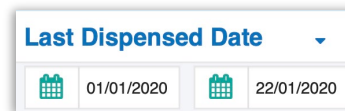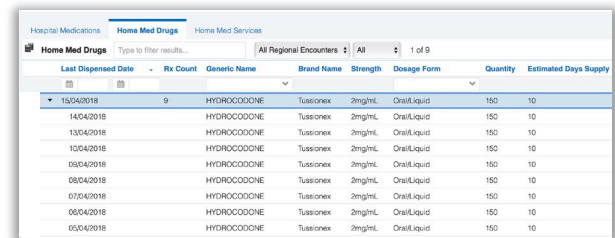

The start and end date range can be defined to narrow down the drug list, within the "Days Back" parameter setting.

Rx Count: the number of prescription refills that have been dispensed. Details of each refill displays when the medication name is clicked to expand.

Strength: strength of the prescription drug dispensed, amount of active ingredient in the drug; for topical and liquid medication it may be shown as a percentage or ratio.

Quantity: quantity of prescription drug dispensed; may be the number of items dispensed, or, for topical and liquid medication (e.g., Methadone) it may refer to dose, total volume or volume of drug concentrate.
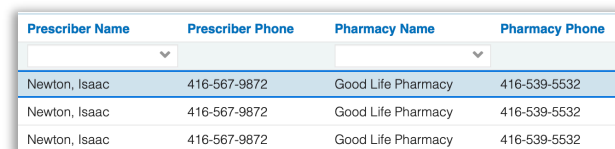
Estimated Days Supply: estimated days of treatment based on the directions for use on the prescription, and/or the pharmacist's judgment on usage; estimating usage accurately may not be possible for some prescriptions (e.g., PRN).

Prescriber and Pharmacy Phone Numbers

Available if needed to contact the prescriber or the dispensing community pharmacy.

Therapeutic Class and Therapeutic Subclass

The pharmacologic therapeutic classification of the prescription drug dispensed display in the last two columns and can be used to filter or sort drugs by their classification types.

Therapeutic Class	Therapeutic Subclass
(1) ANTI-INFECTIVE AGENTS	
UNCLASSIFIED THERAPEUTIC AGENTS	UNCLASSIFIED THERAPEUTIC AGENTS
CENTRAL NERVOUS SYSTEM DRUGS	PHENOTHIAZINES
CENTRAL NERVOUS SYSTEM DRUGS	C.N.S. STIMULANTS
CENTRAL NERVOUS SYSTEM DRUGS	OPIATE AGONISTS
CENTRAL NERVOUS SYSTEM DRUGS	OPIATE AGONISTS
CENTRAL NERVOUS SYSTEM DRUGS	MISCELLANEOUS CENTRAL NERVOUS SYSTEM DRUGS
UNCLASSIFIED THERAPEUTIC AGENTS	
ANTI-INFECTIVE AGENTS	ANTIVIRALS
CARDIOVASCULAR DRUGS	HYPOTENSIVE DRUGS (FOR DIURETICS SEE 40:28)
CENTRAL NERVOUS SYSTEM DRUGS	SEDATIVES AND HYPNOTICS
HORMONES AND SUBSTITUTES	ANTI-DIABETIC AGENTS ORAL ANTI-DIABETIC AGENTS

Viewing COVID-19 Vaccination Information

Ontarians' COVID-19 vaccination information is being made available through the DHDR for patients with a valid Ontario Health Card Number (HCN).

COVID vaccination information is viewable in ClinicalConnect to organizations authorized to view data from the DHDR and displays in the **Pharmacy Module/Home Med Drugs** tab as shown below. Refer to the Digital Health Drug Repository (DHDR): Guide for Clinical Use for details.

To access this data:

1. Select the **Pharmacy** module then select the **Home Med Drugs** tab.
   The vaccination information includes first and second dose information if available.

Last Dispensed Date	Rx	Generic Name	Brand Name	Strength	Dosage Form	Quantit	Estimated Days	Prescriber	Prescriber	Pharmacy Name	Pharmacy
20/03/2021	2	COVID-19 mRNA	PFIZER-BIOTECH	30 msg/0.3	Inj-Susp	0.3		DOE, JOHN	9059999999		
04/01/2021		COVID-19 mRNA	PFIZER-BIOTECH	30 mcg/0.3	Inj-Susp	0.3		DOE, JOHN	9059999999		

💡 COVID-19 vaccination data fields include specific information related to the administration of the vaccine to the patient and may not include data in select fields such as Therapeutic Class and Subclass.

The table below describes the data columns in more detail.

Data Field	Description
Last Dispensed Date	Date that vaccine was administered. **Last Dispensed Date:** 20/02/2021
Rx Count	Number of times that the vaccine was administered.
Generic Name	Generic name of vaccine administered. **Generic Name:** COVID-19 mRNA
Brand Name	Brand name or trade name of the vaccine administered. **Brand Name:** PFIZER-BIONTECH COVID-19 mRNA
Strength	**Strength of vaccine administered.** **Strength:** 30 mcg/0.3 mL
Dosage Form	**Dosage form of vaccine administered.** **Dosage Form:** Inj-Susp
Quantity	**Quantity of vaccine administered.** **Quantity:** 0.3
Prescriber Name	**Name of the health care practitioner who administered the vaccine.** **Prescriber Name:** DOE, JOHN
Prescriber Phone	**Phone number of the health care practitioner who administered the vaccine.** **Prescriber Phone:** 9059999999
Prescriber ID	**License/registration number of the health care practitioner who administered the vaccine. (e.g., physician or nurse practitioner).** **Prescriber Id:** 123456

Data Field	Description
Prescriber Reference ID	Identifies the registration authority (i.e. regulatory college) that issued the license/registration number to the health care practitioner who administered the vaccine. **Prescriber Reference ID:** Ontario Nurse License
DIN/PIN	The Drug Identification Number (DIN) of the vaccine. **DIN/PIN:**　　　　02509210

If COVax_ON information cannot be retrieved, an informational message displays as follows: *"COVID-19 Immunization Information is not available at this time"*.

COVID-19 Immunization Information is not available at this time.

This does not necessarily mean the patient has not received a vaccination. ClinicalConnect users should click the Refresh button in ClinicalConnect, or check back later, as this may result in the successful retrieval and display of the information.

If a patient has been administered a COVID-19 vaccine for a second time, the results will display together with a dropdown arrow. The most recent vaccination displays first.

Last Dispensed Date	▲	Rx Count	Generic Name	Brand Name	Strength	Dosage Form
10/03/2021		2	COVID-19 mRNA	MODERNA COVID-19 mRNA-1273	100 mcg/0.5 mL	Inj-Susp
17/02/2021			COVID-19 mRNA	MODERNA COVID-19 mRNA-1273	100 mcg/0.5 mL	Inj-Susp

Home Med Drugs · Type to filter results... · All Regional Encounters · 1 Year · 2 of 2

⚠️ A patient's record may have a consent directive applied in DHDR, the Home Med Drugs and Home Med Services tabs. In this case, the COVID-19 vaccination information will not display unless the access is unblocked by a physician. Please refer to the section, Viewing Home Meds or Services with a Consent Directive for additional details.

CONSENT DIRECTIVE IN PLACE: Access to Drug and Pharmacy Service Information has been blocked by the Patient. Select button below to temporarily unblock access.

[Unblock Access]

| Hospital Medications | **Home Med Drugs** | Home Med Services |

Home Med Drugs | Type to filter results... | All Regional Encounters ⬍ | All ⬍ | 0 of 0 | ▼ ⚙ 🖨 🗐 ⟳ ⊞ |

No records found

Note: At the time of COVID-19 vaccination, if a patient does not provide consent to share their information, it is not entered into COVax$_{ON}$. In this case, a record of the vaccination is not available in COVax$_{ON}$ or the DHDR.

The custom DHDR reports also contain any COVID-19 vaccination data which can be generated by clicking the Reports 🗐 icon in the module banner.

DHDR Drug Summary Report with COVID-19 Vaccination Data

Printed By: Test Account (accountest)   Printed On: 18/03/2021 13:14   Page 1 of 1

DHDR Drug Summary Report

Ministry of Health and Long-Term Care
Digital Health Drug Repository
Drug and Pharmacy Service Information

| Patient Name: | Marx, Groucho | HCN: | 1234569999 |
| Address: | | Gender: | Unknown |

| Date of Birth: | 01/01/1962 | Age: | 59 |

Warning: Limited to drug information available in Digital Health Drug Repository (DHDR). To ensure a Best Possible Medication History (BPMH), please review this information with the patient/family and use other available sources of medication information in addition to the DHDR.

Search Period: 18/03/2020 - 18/03/2021   Total Records: 1

Last Dispensed Date	Rx Count	Generic Name Brand Name	Strength	Dosage Form	Quantity	Days Supply	Prescriber Name Prescriber Phone	Pharmacy Name Pharmacy Phone	Therapeutic Class Therapeutic Subclass
20/02/2021	1	COVID-19 mRNA PFIZER-BIONTECH COVID-19 mRNA	30 mcg/0.3 mL	Inj-Susp	0.3		Doe, John 9059999999		

1 total

DHDR Drug Detail Report | COVID-19 Data

DHDR Drug Detail Report

Ministry of Health and Long-Term Care
Digital Health Drug Repository
Drug and Pharmacy Service Information

Patient Name:	Marx, Groucho	HCN:	1234569999
Address:		Gender:	Unknown
Date of Birth:	01/01/1962	Age:	59

Warning: Limited to drug information available in Digital Health Drug Repository (DHDR). To ensure a Best Possible Medication History (BPMH), please review this information with the patient/family and use other available sources of medication information in addition to the DHDR.

Search Period:	18/03/2020 - 18/03/2021	Total Records:	1

Last Dispensed Date:	20/02/2021		
Generic Name:	COVID-19 mRNA	Brand Name:	PFIZER-BIONTECH COVID-19 mRNA
Strength:	30 mcg/0.3 mL	Dosage Form:	Inj-Susp
Quantity:	0.3	Days Supply:	
Prescriber Name:	Doe, John	Prescriber Phone:	9059999999
Pharmacy Name:		Pharmacy Phone:	
Therapeutic Class:		Therapeutic Subclass:	
Pharmacist Name:		Prescriber Id:	206201
DIN/PIN:	02509210	Prescription Number:	
		Prescriber Reference ID:	Ontario Nurse License

Pharmacy Module: Home Med Services Tab

The **Home Med Services** tab provides a list of pharmacy services provided by a pharmacist in Ontario and paid for by the ministry. This includes COVID-19 tests completed at a pharmacy. A full list of these services is described in detail in the [Digital Health Drug Repository (DHDR): Guide for Clinical Use](link).

To access Home Med Services information in ClinicalConnect:

1. Select the **Pharmacy** module.
2. Select the **Home Med Services** tab.
3. Select the Service from the list to view additional details.

> ⚠ Note: Any Drugs & Services information dated **June 6, 2018** or earlier displays in the Home Med Drugs Tab. Drugs and Services with a dispensed date on or after **June 7, 2018** displays in two separate tabs; **Home Med Drugs**, and **Home Med Services**.

COVID-19 tests done at community pharmacies are viewable in the Pharmacy module in the Home Meds Services tab, as shown in this example. The results of those tests will be available in the Microbiology module.

DHDR Custom Reports

Custom **DHDR reports** are available to view or print for data in both the Home Med Drugs and the Home Med Services tabs, by clicking the reports ▭ icon in the module banner. There are six report types currently available that display in PDF format and include either a summary or detailed view of the drug & services information available from the DHDR. These reports can be useful for clinicians when completing medication reconciliation activities and support 'Best Possible Medication History' practices.

To generate a report of drugs and/or services, select the **DHDR Reports icon** from the module banner.

🛑 Ensure you've selected the appropriate number of **Days Back** you'd like included in the report by using the preferences ⚙ icon as this will determine the amount of data that displays in the DHDR report. Temporarily changing the number of **Days Back** using the drop-down field in the module header, will not apply the **Days Back** changes to the DHDR reports.
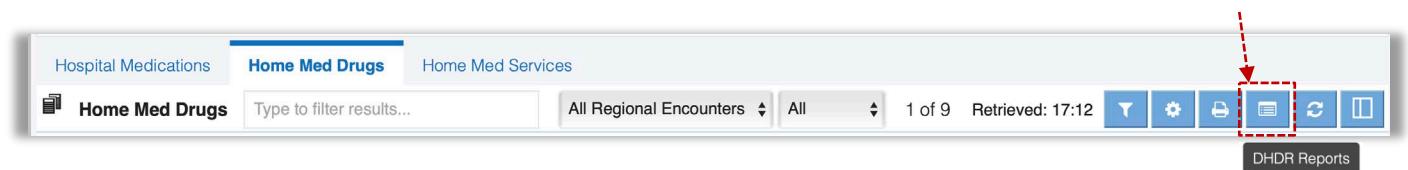
The Print Selection window displays the list of reports available. Select the report type, then click **Print**.
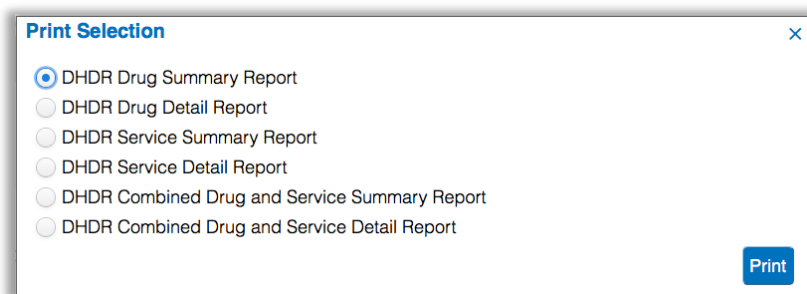
All reports display as PDFs and include patient demographic information, the ClinicalConnect watermark along with page header details, as shown below:

Printed By: TestMarz Cran (testmcran)   Printed On: 22/01/2020 17:25

💡 TIP: Clicking the **Print** 🖨 icon will print the information from every available field in the list or details view, resulting in a printed format that may not be as useful compared to a report where parameters have been set/customized.

Examples of DHDR Custom Reports

There are six different DHDR reports that can be printed as shown in the examples below. When generating a report, consider using the landscape layout which aligns the columns of data without wrapping text over multiple lines. To set your preferences to landscape, click the preferences ⚙ icon then define the **PDF Export Orientation** to Landscape.

1. Drug Summary Report

This report provides a summary of the Drug list, only showing the most recently-dispensed drug.

2. Drug Detail Report

This report provides all available details of each dispensed drug, including repeat prescription refills and associated Alert information.

3. Service Summary Report

This report provides a summary of the Services list. Additional information may be available in the Service Detail Report.

Service Date	Count	Pharmacy Service Type	Pharmacy Service Description	Pharmacy Name	Pharmacy Phone	Pharmacist Name
21/05/2018	1	Replacement Naloxone Kit	NALOXONE	Good Life Pharmacy	416-539-5532	Sway, Ken
11/05/2018	1	Epipen Jr. Autoinjector	EPINEPHRINE AUTO-INJ SERVICE FEE (Epipen Auto Injector)	Good Life Pharmacy	416-539-5532	Sway, Ken
11/04/2018	1	Tamiflu	OSELTAMIVIR PHOSPHATE	Good Life Pharmacy	416-539-5532	Sway, Ken
						3 total

4. Service Detail Report

This report provides all available details related to Home Med Services.

Service Date:	11/04/2018
Pharmacy Name:	Good Life Pharmacy	**Pharmacy Phone:** 416-539-5532
Pharmacist Name:	Sway, Ken

Pharmacy Service Type:
Tamiflu

Pharmacy Service Description:
OSELTAMIVIR PHOSPHATE

5. Combined Drug and Service Summary Report

This report combines both the Home Med Drugs and Services summaries into one report.

### 6. Combined Drug and Service Detail Report

This report combines both the Home Med Drugs and Services details into one report.

Viewing Home Meds or Services with a Consent Directive

All Ontarians have the right to withdraw consent to the sharing of their publicly-funded drugs and pharmacy services, and monitored drug information available through the DHDR. ClinicalConnect honours the consent directive and displays the following message in the patient's ClinicalConnect record:

> **CONSENT DIRECTIVE IN PLACE: Access to Drug and Pharmacy Service Information has been blocked by the Patient. Select button below to temporarily unblock access.**

If a patient has a consent directive applied to their entire record in DHDR, the Home Med Drugs and Home Med Services tabs in ClinicalConnect displays the following message: **No Records Found** as shown below.
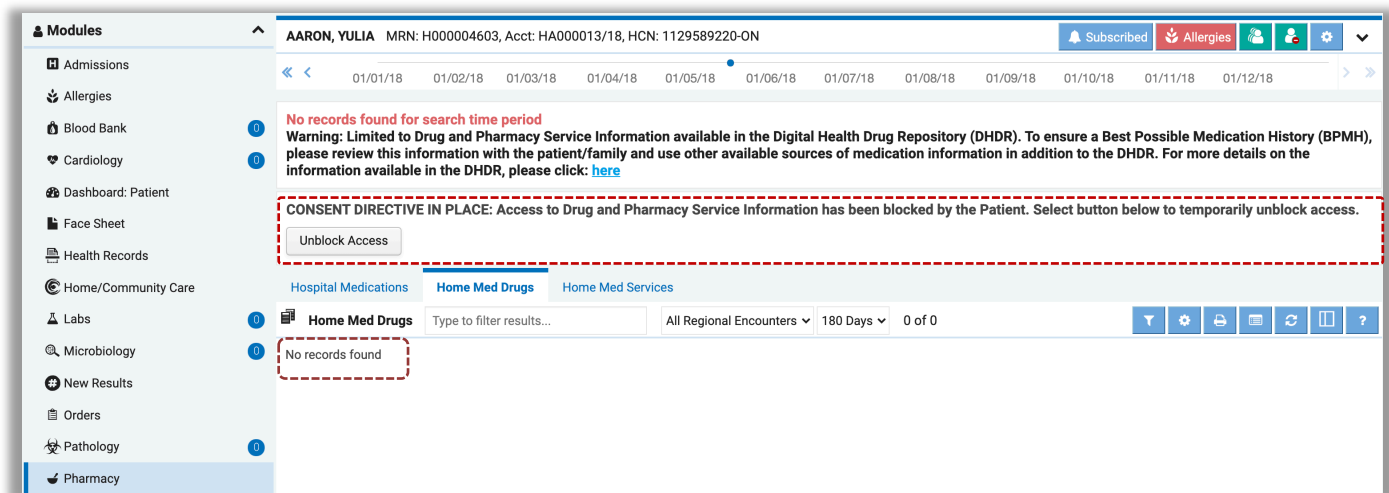
Once the consent reinstatement **(Unblock Access)** is activated by an authorized user, all ClinicalConnect users from the user's organization may access this patient's DHDR drug and services information for a period of four (4) hours.

Process to Temporarily Unblock Access to DHDR Data Using ClinicalConnect

If a patient has a consent directive in place for some or all of their DHDR information, authorized users may temporarily unblock the records, if the patient/SDM provides written consent to do so. The user must document consent to unblock access on the MOHLTC's **Temporary Unblocking of Access to Your Drug and Pharmacy Service Information** form, accessible from within ClinicalConnect.

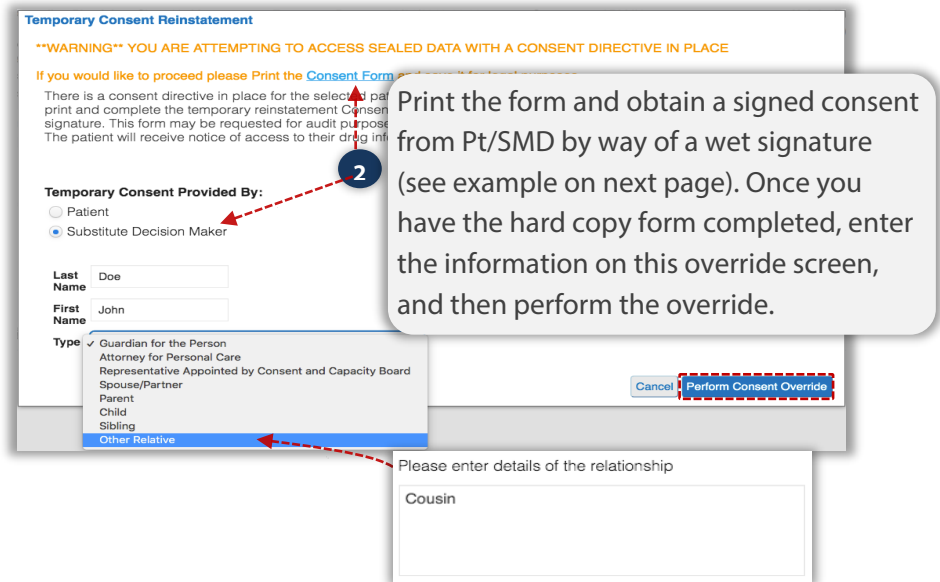To perform the consent override:

1. **Complete Consent Form:** First, complete the **Temporary Unblocking of Access to Your Drug and Pharmacy Services** consent form by clicking **Unblock Access** then click the Consent Form link.

Complete the form on-line and then print it to obtain the required wet signature from the patient/SDM before performing the temporary unblocking of access.

Temporary Consent Reinstatement

WARNING YOU ARE ATTEMPTING TO ACCESS SEALED DATA WITH A CONSENT DIRECTIVE IN PLACE

If you would like to proceed please Print the Consent Form

There is a consent directive in place for the selected pa... print and complete the temporary reinstatement Consen... signature. This form may be requested for audit purpos... The patient will receive notice of access to their drug inf...

Temporary Consent Provided By:
○ Patient
● Substitute Decision Maker

Last Name: Doe
First Name: John

Type: ✓ Guardian for the Person / Attorney for Personal Care / Representative Appointed by Consent and Capacity Board / Spouse/Partner / Parent / Child / Sibling / **Other Relative**

Cancel   Perform Consent Override

Please enter details of the relationship
Cousin

> Print the form and obtain a signed consent from Pt/SMD by way of a wet signature (see example on next page). Once you have the hard copy form completed, enter the information on this override screen, and then perform the override.
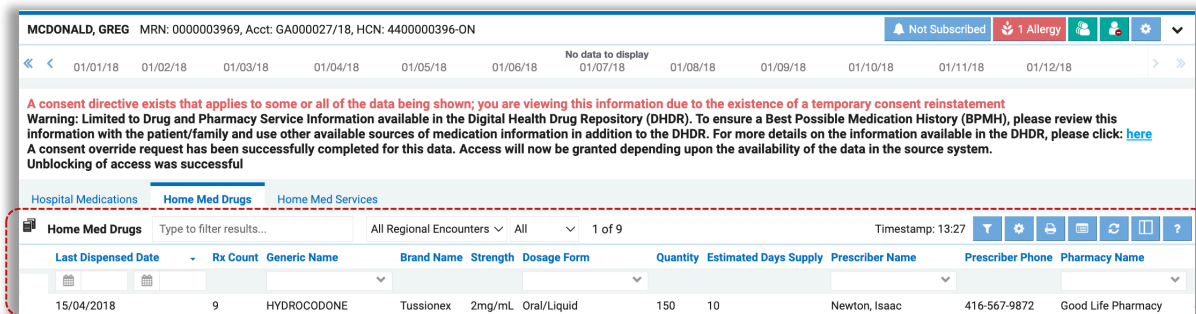
2. **Inform the Patient/SDM:**
   Users must inform the patient/SDM that their consent will provide temporary unblocking of access to the blocked DHDR records to all authorized ClinicalConnect users from within their organization for a period of four hours.

   Note: If the SDM selection is Sibling or Other Relative, you will be required to enter the details of the relationship in the text field provided as shown in this example.

   Audit: The **Temporary Unblocking of Access to Your Drug and Pharmacy Service Information** form **must be retained** in accordance with your organization's privacy policies and procedures, as the Privacy Contact from your organization will need it for audit validation purposes.

3. **Patient Notification:** When consent is temporarily reinstated, the patient will be notified by mail from the MOHLTC.

   After the four-hour period has expired, if a user requires access to the information again, they must follow the same process as described previously and obtain consent from the patient/SDM. Once the override is performed, this message will display:

   A consent override request has been successfully completed for this data. Access will now be granted depending upon the availability of the data in the source system. Unblocking of access was successful.

All authorized ClinicalConnect users from the user's organization will be able to access the patient's blocked information from the DHDR for a period of four hours and will see this message:

A consent directive exists that applies to some or all of the data being shown; you are viewing this information due to the temporary unblocking of access.
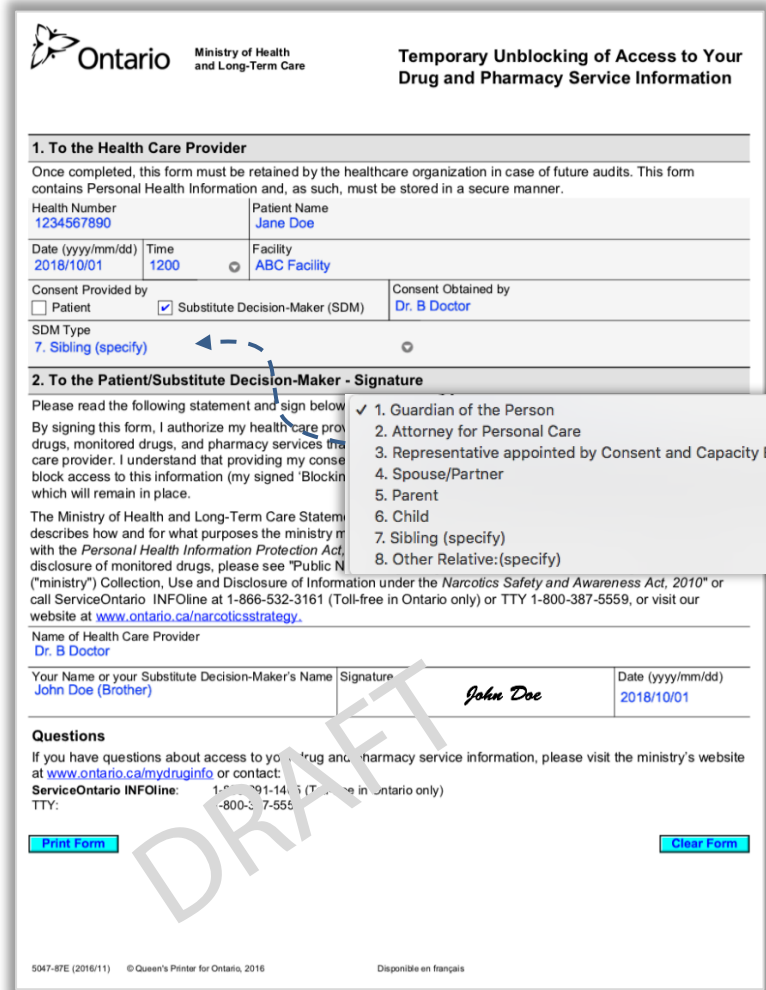
Once the four-hour period has expired, if a user requires access to the information again, they must follow the same process as described previously and obtain consent from the patient/SDM.

Completing the Temporary Unblocking of Access to Your Drug and Pharmacy Services Information Form

The following explains how to complete the consent form:

🛑 **IMPORTANT**

1. **Consent Form:** Click the consent form link (shown above), complete the form online, print it and have the patient or SDM sign the completed form.

2. **Inform the Patient or SDM:** Users must inform the patient/SDM that their consent to temporarily unblock information will provide access to their blocked DHDR records to all authorized ClinicalConnect users from within their organization for a period of four hours.

3. **Audit:** The completed and signed Temporary Unblocking of Access to Your Drug and Pharmacy Service Information form must be retained in accordance with the organization's privacy policies and procedures, as it will be required by the organization's Privacy Contact for audit verification purposes.

4. **Patient Notification:** The patient will receive a notification from the MOHLTC by mail that their consent directive was temporarily unblocked by the patient/SDM as well as the user and organization where the override was performed.

Note: A French language version of this form is available on page 2 of the PDF.

Home Med Drugs Tab: Preference Settings

Setting your preferences to define how you wish to view Home Med Drugs or Services in the Pharmacy Module is essential, as these settings impact how data is organized and how quickly data is retrieved. Data retrieval speeds will also vary depending on a variety of factors such as patient complexity, number of items/results being returned, and filter settings such as Days Back. Preferences need only be set once, and can be updated anytime as your clinical needs change.

The **Home Med Drugs** tab in the Pharmacy module is the default view for all users who are authorized to access DHDR data; if not authorized, the default view will be Hospital Medications.

How medication information presents in the Home Med Drugs view can be customized to suit your clinical needs. The easiest and quickest way to customize your preferences is by using the **Preferences** icon ⚙. You can customize your preferences as to how you'd like the medication information to display.
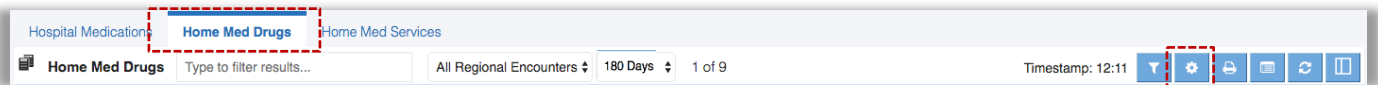
The Home Med Drugs tab is the default view this can be changed by selecting Hospital Medications or Home Med Services.

The **Encounter Filter** default must be set to **All Regional Encounters** in order to view Home Med Drugs or Services from the DHDR.

Home Meds Drug List: Sort By: select one of the options from the list to define the sort. In this example, Last Dispensed Date is selected as the default. You can also define the Sort Direction in Ascending or Descending order based on your Sort By selection.
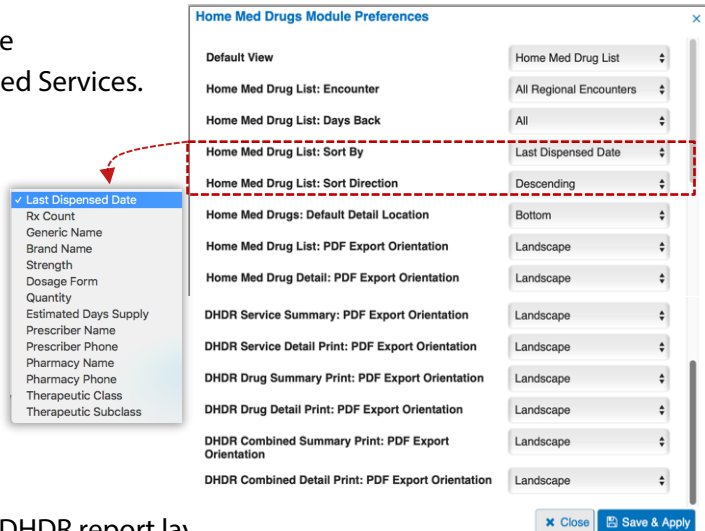
The preferences also include options to customize the DHDR report layout (Portrait or Landscape orientation).

Home Med Drugs: Default Detail Location: Select **'Bottom'** to display medication details below the list, or **'Right'** to display the details to the right of the list.

Days Back Filter: The **'Days Back'** filter refers to the amount of information presented based on the number of days back from the date of patient discharge. For an admitted in-patient, the Days Back filter refers to the number of days back from the current date (today).

🛑 By default, the **'Days Back'** filter in the Home Med Drug view is set to 180 days but can be changed to a maximum of **'ALL';** however, this setting may impact data retrieval speed if returning large volumes of pharmacy data. If no DHDR data is available for the patient within the selected days back parameter, the following message displays: **No records found for search time period**
In this case, increase the number of Days Back to check for additional data.

Home Med Services Tab: Preference Settings

The **Home Med Services** tab in the Pharmacy module can also be customized based on the column data available in this view.

Select the **Preference icon** and using the dropdown menu options, customize your view to suite your clinical needs.
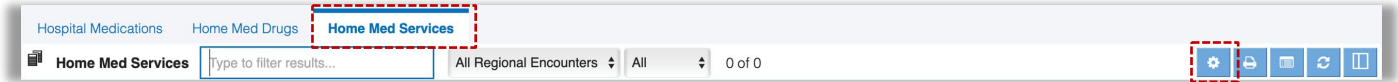
The **Encounter Filter** default must be set to **All Regional Encounters** in order to view Home Med Drugs or Services from the DHDR.

Home Meds Services List

Sort By: select one of the options from the list to define the sort. In this example, Service Date is selected as the default. You can also define the Sort Direction in Ascending or Descending order based on your Sort By selection.
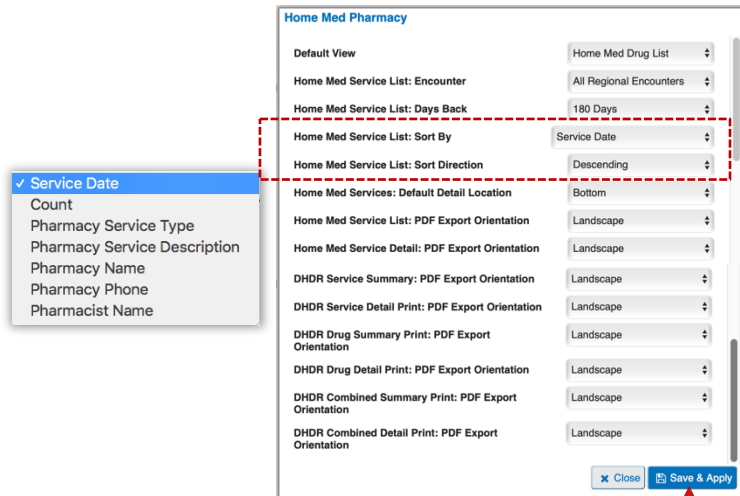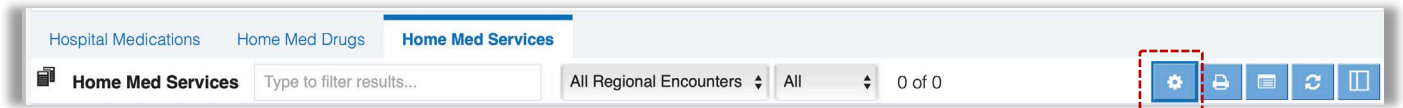

Click **Save & Apply** to save your preferences.

The preferences also include options to customize the DHDR reports PDF layouts by defining landscape or portrait.

How to Set Your Pharmacy Default View

The Preference settings in any Pharmacy tab can be used to set your Pharmacy default view to either Home Med Drugs, Home Med Services or Hospital Medications.

1. Select the Preferences ⚙ icon from any of the three tabs in the Pharmacy module.

2. Use the **Default View** field to select one of the three tabs as your Pharmacy module default.

   Note: Pharmacy List will default the view to the Hospital Medications.
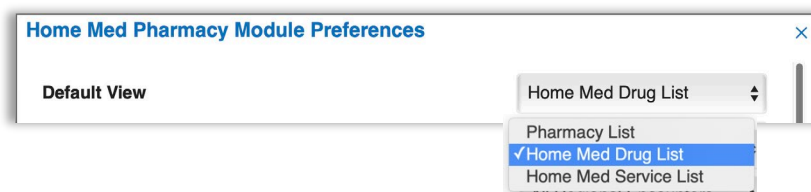
3. When you're finished, ensure you click **Save & Apply** to save your preferences.