

EMR Digital Health Drug Repository (DHDR)

Requirements

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1. INTRODUCTION

1.1 Overview

This document defines requirements for an EMR Offering to integrate with the provincial Digital Health Drug Repository (DHDR) EHR Service, which is hosted on the ONE Access Gateway (OAG). The intended audiences of this document are business and technical implementers interested in implementing functionality within an EMR Offering to access patients' drug dispense events and pharmacy service events information retrieved from the DHDR EHR Service.

1.2 Version History

VERSION	REVISION DATE	NOTES
1.0	2019-12-13	a) Initial Draft for Comment release.
2.0	2020-07-13	a) Updated reference to DHDR HL7 FHIR Implementation Guide to the latest version. b) Updated PCOI from patient consent to provincial consent. c) Updated DHDR02.01 for clarity of where the search function needs to exist. d) Updated DHDR02.02 to align patient search parameters available in the DHDR. e) Updated DHDR02.03 for automatic population of search parameters. f) Updated DHDR02.05 and DHDR02.06 for searching and displaying dispense history. g) Added DHDR03.03 for disabling the disclaimer. h) Updated DHDR03.04, DHDR03.05, and DHDR03.06 for retrieving dispense events. i) Updated DHDR09.01 dealing with the EMR Offering being able to handle a consent directive response. j) Added DHDR09.02 for the ability to display a consent directive message. k) Updated DHDR09.03 to reflect handling consent blocks more accurately. l) Updated DHDR09.05 for consent block cancellation messaging. m) Updated section 2.4.2.1 referencing context sharing parameters. n) Updated DHDR10.03 to reference EMR Integration with Viewlet Framework documentation. o) Updated DHDR12.01 to clarify the URL and how it may be instantiated.
2.2	2020-12-09	a) Updated DHDR01.02 to make it required to restrict changes to the EHR Service endpoint values to certain users only. b) Updated DHDR02.04 to identify that a user-defined default setting is acceptable for the default date range for DHDR searches. c) Re-sequenced requirements beginning with DHDR03.01 to DHDR03.04 to accommodate for the re-organization of the requirements. d) Updated DHDR03.01 to include displaying all dispense events in descending chronological order. e) Updated DHDR03.02 for clarity and to include functionality to identify discrepancies in patient information between an EMR Offering and the EHR Service. f) Updated DHDR04.01 to include dose and frequency information in the Summary View and to display in reverse chronological order in the Summary View. g) Updated DHDR04.02 to clarify the set of requirements to group similar drug dispense events.

VERSION	REVISION DATE	NOTES
		<ul style="list-style-type: none"> h) Updated DHDR05.01 to include displaying patient medication records from the EMR in the Drug Dispense Comparative View. i) Retired DHDR05.04. The requirement is already defined in DHDR05.02. j) Retired DHDR05.05. The requirement is already defined in DHDR05.01. k) Updated DHDE06.01 to clarify the mandatory prescriber information in the Detailed View. l) Updated DHDR07.01 to rename “Service Date” to “Packaged Date” and replaced pharmacy phone number with a pharmacy fax number. m) Updated DHDR07.02 to clarify the displaying and sorting of grouped events in the Pharmacy Service View. n) Updated DHDR08.01 to identify the source of information for the Pharmacy Service Comparative View. o) Updated DHDR08.02 to identify the source of information for Pharmacy Service Comparative View and to identify that any grouping of Pharmacy Service events is not needed. p) Added DHDR09.01 for extraction and use of PCOI endpoint values. This functionality existed in Viewlet Framework requirements and was moved to DHDR requirements instead. q) Re-sequenced DHDR09.02 (previously DHDR09.01) to DHDR09.06 (previously DHDR09.05) to accommodate the new requirement DHDR09.01. r) Updated DHDR13.03 for clarity on reporting and to include patient name and health card in reports and search functionality. s) Updated DHDR15.01 to be more consistent with standard logging requirements.
2.3	2021-05-20	<ul style="list-style-type: none"> a) Updated specification status to Draft for Use (DFU) b) Corrections to errata c) Updated reference to Check Medication Coverage – Drug Formulary d) Updated reference to ONE Access Viewlet Framework – Developer Guide e) Updated reference to Ontario Digital Health Drug Repository (DHDR) – Point of Care Systems Access – HL7 FHIR Implementation Guide f) Removed reference to Best Possible Medication History which is no longer available g) Updated reference to Special Authorization Digital Information Exchange (SADIE) h) Added reference to Electronic Health Record Request for Correction to Personal Health Information Policy for ministry policies and processes (beyond EMR functionality) to correct EHR data or modify a consent directive i) Updated CDS-S FHIR references to match the current version of the CDS-S j) Updated DHDR02.04 to add a recommendation to include time components when a search is sent with a date component. k) Updated DHDR02.05 for consistency in informing the user of returned search results. l) Updated DHDR03.03 for criteria when a warning is displayed to be consistent with DHIR m) Re-sequenced DHDR05.04 (Previously DHDR05.06) to accommodate for retired requirements. n) Updated DHDR09.04 for clarity on actions performed by the EMR Offering o) Updated DHDR13.01 to standardize printing functionality and to identify the source of the patient demographics needed on print-outs p) Updated DHDR15.01 for clarity on the FHIR Message ID

1.3 Scope

1.3.1 In Scope

- Retrieval of drug dispense events and pharmacy service events for patients from the DHDR EHR Service and presenting it in the EMR Offering
- EMR functionality to interact with the Provincial Consent Override Interface (PCOI) Viewlet to process any encountered temporary patient consent block in the DHDR EHR Service
- EMR functionality to interact with the PCOI Viewlet using patient context management

1.3.2 Out of Scope

- EMR functionality to reconcile prescription events in the EMR Offering and drug dispense events in the DHDR EHR Service
- Submission of prescription or drug dispense events from the EMR Offering to the DHDR EHR Service
- EMR functionality to make corrections to provider, patient and drug or pharmacy event information maintained in the DHDR EHR Service

1.4 Assumptions

- Readers have a general understanding of EMRs and clinical workflows.
- Readers have a level of understanding of Health Level Seven (HL7) Fast Healthcare Interoperability Resources (FHIR).
- Readers have a level of understanding of RESTful APIs.

1.5 Dependencies

To streamline the user experience, maintain security, and safeguard and the privacy of PHI, an EMR Offering must adhere to the EMR EHR Connectivity Specification to be able to connect to any provincial EHR service.

1.6 Related Documents, References and Sources

ID	NAME	VERSION	DATE
1	Check Medication Coverage – Drug Formulary (Ministry of Health, 2019) https://www.ontario.ca/page/check-medication-coverage/	N/A	2019
2	EMR EHR Connectivity Specification (OntarioMD, 2021) https://www.ontariomd.ca/emr-certification/emr-specification/library	2.3	2021-04-08
3	ONE Access Viewlet Framework – Developer Guide (Ontario Health Digital Services, 2021) https://ehealthontario.on.ca/en/standards/one-access-viewlet-framework-developer-guide	1.7	2021-03
4	Ontario Digital Health Drug Repository (DHDR) – Point of Care Systems Access – HL7 FHIR Implementation Guide (Ministry of Health, 2020) https://ehealthontario.on.ca/en/standards/digital-health-drug-repository-specification-fhir-release-3	3.0.8	2020-11-04
5	Special Authorization Digital Information Exchange (SADIE) (Ministry of Health, 2020) http://www.health.gov.on.ca/en/pro/programs/sadie/	N/A	2020-10-26
6	Information Available to Health Care Providers through the Digital Health Repository (Ministry of Health, 2017) http://www.forms.ssb.gov.on.ca/mbs/ssb/forms/ssbforms.nsf/FormDetail?OpenForm&ACT=RDR&TAB=PROFILE&SRCH=&ENV=WWE&TIT=5056-87E&NO=014-5056-87E	2017/02	2017

2. EMR REQUIREMENTS

This section consists of the EMR functional requirements to interact with the DHDR EHR Service.

Support:

M = Mandatory. EMR offerings certified for this specification **MUST** support this requirement.

O = Optional. EMR vendors **MAY** choose to support this requirement in their certified EMR offering.

Status:

N = New requirement for this EMR Specification version.

P = Previous requirement.

U = Updated requirement from the previous EMR Specification version.

R = Retired requirement from the previous EMR Specification version.

OMD #:

A unique identifier that identifies each requirement within OntarioMD's EMR Requirements Repository

CONFORMANCE LANGUAGE

The following definitions of the conformance verbs are used in this document:

- **SHALL/MUST** – Required/Mandatory
- **SHOULD** – Best Practice/Recommendation
- **MAY** – Acceptable/Permitted

The tables that follow contain column headings named: 1) "Requirement," which generally contains a high-level requirement statement; and 2) "Guidelines," which contains additional instructions or detail about the high-level requirement. The text in both columns is considered requirement statements. FHIR data elements in the requirements are encapsulated within brackets, e.g., [Organization.name]. The CDS-S Physical element names are encapsulated within parenthesis, e.g., (Patient.name.given).

2.1 EHR Service

The following EMR requirements apply to EMR Functionality specific to interfacing and connecting to the DHDR EHR Service.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR01.01	The EMR Offering MUST be able to interface with the DHDR EHR Service.	The EMR Offering MUST support the DHDR HL7 FHIR Implementation Guide to interface with the DHDR EHR Service.	M	P
DHDR01.02	The target connection endpoint(s) to the DHDR EHR Service MUST be configurable in the EMR Offering.	<p>The EMR Offering MUST restrict the ability to change the endpoint value to specific EMR role(s).</p> <p>Informational: The EHR Service endpoint value will be provided by OHDS during connectivity testing for the various EHR Service environments.</p>	M	P

2.2 Search Drug and Pharmacy Service Dispenses

The following EMR requirements apply to EMR functionality specific to searching medication events.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR02.01	The EMR Offering MUST have the functionality to allow the EMR user to search the DHDR EHR Service from the patient chart.	The functionality to search the DHDR EHR Service MUST be available where the patient's medication prescription management functionality exists from a screen or module within the EMR Offering that explicitly identifies the patient.	M	P
DHDR02.02	The EMR Offering MUST have the functionality to initiate a search from the DHDR EHR Service using the patient's demographics.	<p>The following patient data from the EMR Offering MUST be included in the request to the DHDR EHR Service:</p> <ul style="list-style-type: none"> Health Card Number (HCN) (Patient.identifier:JHN.value) <p>The EMR Offering MAY search using additional patient demographic data as supported by the DHDR EHR Service. Note that only results that match all search parameters are returned.</p>	M	U

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		<p>The EMR Offering MUST NOT allow retrieval of drug dispense events if any mandatory patient data is missing.</p> <p>Refer to the “Supported Search Parameters” section in the DHDR HL7 FHIR Implementation Guide for more information on search parameters.</p>		
DHDR02.03	Patient information stored in the EMR Offering MUST be used to automatically populate DHDR EHR Service search parameters.	<p>The EMR user MUST NOT be required to manually provide patient values to the DHDR EHR Service search parameters where the patient values are stored and can be provided by the EMR Offering without EMR user intervention.</p> <p>The ability for an EMR Offering to populate patient information MUST be restricted to a patient chart or window that explicitly references an individual patient.</p> <p>It is not acceptable to automatically populate information where it may be ambiguous as to which data was used (e.g., from a window that displays information about two or more patients).</p>	M	P
DHDR02.04	The EMR Offering MUST have the functionality to search the DHDR EHR Service for the patient’s drug dispense and pharmacy dispense history by date.	<p>At a minimum, the EMR Offering MUST have the functionality to allow searching by all the following date range options for the patient:</p> <ul style="list-style-type: none"> a) A default date range of 120 days prior to the current date b) A date range manually entered by the EMR user c) The ability to search for all available events (with no explicit date range) <p>To ensure an accurate date range is searched, it is recommended that a time component be included with any date parameters sent when searching the DHIR EHR Service if supported.</p>	M	U

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		<p>The EMR Offering MAY have the functionality to allow the EMR user to change the default value on a per-user basis.</p> <p>Refer to the “Search Medication and Pharmacy Service Dispenses” section of the “DHDR FHIR – Implementation Guide” for details on search parameters supported by the EHR Service.</p>		
DHDR02.05	The EMR Offering MUST inform the EMR user when a search to the DHDR EHR Service for the patient’s drug dispense history returns no records.	<p>Where there is a valid return of 0 (zero) results, the following is a suggested message to display:</p> <p>“No records found for the specified search date/time period.”</p> <p>The search period MUST be displayed along with the search results.</p> <p>Refer to the Error and Warning Management section for any errors or warnings returned by the DHDR EHR Service.</p> <p>The search period MUST be displayed along with the search results.</p> <p>Note: No events being returned may be a result of the patient having no history, or no events existing for the period searched.</p>	M	U
DHDR02.06	The search period MUST be displayed along with all search results.	<p>Whenever a search for a patient’s drug dispense history is performed (where zero or more drug dispense events are returned for the patient), the search period used MUST be displayed along with the search results.</p> <p>Where a search period consists of defined start or end dates, the format used to display the date MUST be either:</p> <ul style="list-style-type: none"> a) In a date and time format consistent with the format used throughout the EMR Offering user interface (recommended option), or b) in the same date and time format as provided by the DHDR EHR Service. 	M	U

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		Note: Search periods may not have explicit start and/or end dates (e.g., searching for all dispense events).		

2.3 DHDR EHR Views

There are three different views of the patient's drug dispense history and two views of the patient's pharmacy service history:

1. **Drug Dispense Summary View** – Provides a means to list multiple drug dispense events for a given patient. Drug dispense events that share the same generic name, strength, and dosage form are grouped under the most recent drug dispense event in that grouping, with the means to show and hide the grouped events.
2. **Drug Dispense Comparative View** – Displays a list of drug dispense and prescription history within an EMR for a given patient, with drug dispense history from the DHDR EHR Service. The Comparative View does not reconcile information from the EMR and the DHDR EHR Service.
3. **Drug Dispense Detailed View** – Provides a means to drill down or expand on a single drug dispense event to provide more information.
4. **Pharmacy Service Summary View** – Provides a means to list multiple pharmacy service events for a given patient. Pharmacy service events that share the same pharmacy service type are grouped under the most recent pharmacy service in that grouping with the means to show and hide the grouped events.
5. **Pharmacy Service Comparative View** – Displays a list of pharmacy service events within an EMR for a given patient, with pharmacy service events from the DHDR EHR Service. The Comparative view does not reconcile information from the EMR and the DHDR EHR Service.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR03.01	The EMR Offering MUST have the functionality to display all dispense events retrieved from the DHDR EHR Service.	<p>The EMR Offering MUST support the following DHDR EHR Views:</p> <ul style="list-style-type: none"> a) Drug Dispense Summary View b) Drug Dispense Comparative View c) Drug Dispense Detail View <p>The EMR Offering MUST indicate the total number of results returned from a search.</p> <p>All dispense events received from DHDR EHR Service MUST be displayed in descending chronological order (with the most recent event first) by default.</p>	M	P

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR03.02	When displaying drug dispense events retrieved from the DHDR EHR Service, the patient MUST be identified.	<p>The following patient information, if maintained in the EMR Offering, MUST be displayed whenever displaying events retrieved from the DHDR EHR Service:</p> <ul style="list-style-type: none"> a) First name (Patient.name.given) b) Last name (Patient.name.family) c) Health Card Number (HCN) (Patient.identifier:JHN.value) d) Gender (Patient.gender) e) Date of birth or age (Patient.birthDate) <p>The EMR Offering MUST identify and display any patient information that does not match between the EMR Offering and the DHDR EHR Service.</p> <p>Note: It is not acceptable for the EMR Offering to automatically update patient information stored within the EMR Offering to match patient information retrieved from the EHR Service.</p> <p>Refer to the DHDR FHIR Implementation Guide, “Patient Example” section for the list of patient information returned by the DHDR EHR Service.</p>	M	P
DHDR03.03	The EMR Offering MUST include the disclaimer when displaying drug dispense or pharmacy service events retrieved from the DHDR EHR Service.	<p>The following disclaimer MUST be displayed whenever zero or more drug dispense events retrieved from the DHDR EHR Service are displayed:</p> <p><i>“Warning: Limited to Drug and Pharmacy Service Information available in the Digital Health Drug Repository (DHDR) EHR Service. To ensure a Best Possible Medication History, please review this information with the patient/family and use other available sources of medication information in addition to the DHDR EHR Service. For more details on the information available in the DHDR EHR Service, please click [URL].”</i></p> <p>The EMR Offering MUST include a URL to the referenced form as a functioning hyperlink in the disclaimer.</p>	M	P

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		<p>Refer to “Information Available to Health Care Providers through the Digital Health Repository” in the Related Documents, References and Sources section of this document for the webpage of where to obtain the URL to the form to insert into the disclaimer.</p> <p>Note: This disclaimer is subject to change by the MOH.</p>		
DHDR03.04	The EMR Offering MUST have the functionality to allow the EMR user to temporarily disable the disclaimer from subsequently displaying.	<p>The EMR Offering MUST have the functionality to allow the EMR user to temporarily suppress the disclaimer from subsequently displaying until they log out of the EMR Offering.</p> <p>The ability to disable and restore the disclaimer MUST be independent of the ability to disable and restore other disclaimers.</p> <p>The ability to suppress the disclaimer MUST be applied on an EMR user basis.</p>	M	P
DHDR03.05	The EMR Offering MUST have the functionality to filter the drug dispense history events retrieved from the DHDR EHR Service.	<p>The EMR Offering MUST allow the EMR user to filter by:</p> <ul style="list-style-type: none"> a) Generic name [Medication.code.coding[2].display] b) Brand name [Medication.code.coding[1].display] c) Dispensed date [MedicationDispense.whenPrepared] d) Pharmacy Name [Organization.name] e) Prescriber Name (Practitioner.name.family), (Practitioner.name.given) f) Therapeutic Class [Medication.code.coding[3].display] <p>The EMR Offering MUST visually indicate the elements that are being actively filtered.</p> <p>Note: Any pre-existing filtering capabilities for medication data maintained in the EMR Offering SHOULD be supported in the Comparative View.</p>	M	P
DHDR03.06	The EMR Offering MUST have the functionality to sort the drug dispense	The EMR Offering MUST allow the EMR user to sort by:	M	P

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
	history events retrieved from the DHDR EHR Service.	a) Generic name [Medication.code.coding[2].display] b) Brand name [Medication.code.coding[1].display] c) Dispensed date [MedicationDispense.whenPrepared] d) Pharmacy Name [Organization.name] e) Prescriber Name (Practitioner.name.family), (Practitioner.name.given) The EMR Offering MUST visually indicate the elements are being actively sorted. Note: Any pre-existing sorting capabilities for medication data maintained in the EMR Offering SHOULD be supported in the Comparative View.		

2.3.1 Drug Dispense Summary View

The following EMR requirements apply to functionality specific to the Drug Dispense Summary View.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR04.01	The EMR Offering MUST have the functionality to display a Summary View for drug dispense events.	The following information for each drug dispense event retrieved from the DHDR EHR Service MUST be displayed in the Drug Dispense Summary View: <u>Drug Information</u> a) Dispensed Date [MedicationDispense.whenPrepared] b) Pickup date (MedicationDispense.whenHandedOver) c) Generic name of the dispensed drug [Medication.code.coding[2].display] d) Brand name of the dispensed drug [Medication.code.coding[1].display] e) Amount of medication per dose [MedicationDispense.dosageInstruction.doseAndRate.doseQuantity]	M	P

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		<p>f) Frequency [MedicationDispense.dosageInstruction.timing]</p> <p>g) Dispensed drug strength [Medication.extension[1](medicationStrength).valueString]</p> <p>h) Drug dosage form (e.g., tablet, capsule, injection) [Medication.form.text] Note: A coded value may be returned.</p> <p>i) Dispensed quantity [MedicationDispense.quantity.value], [MedicationDispense.quantity.unit]</p> <p>j) Estimated days' supply [MedicationDispense.daysSupply.value]</p> <p>k) Refills remaining [MedicationDispense.extension.extension[1] (refillsRemaining)]</p> <p>l) Quantity remaining [MedicationDispense.extension.extension[2] (quantityRemaining)]</p> <p><u>Prescriber Information</u></p> <p>m) Prescriber first name (Practitioner.name.given)</p> <p>n) Prescriber last name (Practitioner.name.family)</p> <p>o) Prescriber phone number [Practitioner.telecom[1].value]</p> <p><u>Pharmacy Information</u></p> <p>p) Dispensing Pharmacy [Organization.name]</p> <p>q) Dispensing Pharmacy fax number [Organization.telecom[2].value]</p> <p>The dispense events received from DHDR EHR Service MUST be displayed in descending chronological order (with the most recent event first) by default.</p>		

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR04.02	The EMR Offering MUST have the functionality to allow the EMR user to group related drug dispense events in the Drug Dispense Summary View.	<p>Drug dispense events MUST be grouped when the following values match for two or more events:</p> <ul style="list-style-type: none"> a) Generic name of the dispensed drug [Medication.code.coding[2].display] b) Dispensed drug strength [Medication.extension[1].valueString] c) Drug dosage form (e.g., tablet, capsule, injection) (Medication.form.coding.display) <p>Groups of drug dispense events MUST be ordered by Dispense Date in descending chronological order (with the most recent event first).</p> <p>Dispense events within an expanded group MUST be displayed in descending chronological order (with the most recent event first).</p> <p>A group is represented by displaying only the most recent event in that group according to the Dispense Date.</p> <p>A group MUST be identified differently than an event that is not part of any group.</p> <p>The EMR Offering MUST generate and indicate the count of individual events represented within each group as the "Rx Count".</p> <p>Refer to the Summary View section of the Business View document in this specification for a sample illustration of the grouping of events.</p>	M	P

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR04.03	The EMR Offering MUST be able to expand a grouping of drug dispense events.	The EMR Offering MUST have the functionality to allow the EMR user to display the individual drug dispense events in a group by selecting and expanding the group.	M	P

2.3.2 Drug Dispense Comparative View

The following EMR requirements apply to functionality specific to the Drug Dispense Comparative View.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR05.01	The EMR Offering MUST have the functionality to display the Drug Dispense Comparative View of the patient's history.	<p>The Drug Dispense Comparative View MUST display a side-by-side view of the following information about the patient on the same window:</p> <ul style="list-style-type: none"> a) Prescription and medication records from the EMR Offering (Refer to DHDR05.02 for the information to include) b) Drug Dispense history from the DHDR EHR Service (Refer to DHDR05.03 for the information to include) <p>The EMR Offering MUST distinguish between the records from the EMR Offering and the events from the DHDR EHR Service.</p> <p>Note: Functionality to reconcile between EMR records and DHDR EHR Service events is not required.</p>	M	P
DHDR05.02	The Drug Dispense Comparative View MUST include the patient's medication history recorded in the EMR Offering.	<p>When displaying the patient's medication history from the EMR Offering, the following information MUST be displayed, if available:</p> <ul style="list-style-type: none"> a) Prescription date b) Drug Identification Number (DIN) c) Name of medication d) Drug strength (value and unit of measure) 	M	P

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		e) Dosage (value and unit of measure) f) Frequency g) Duration and/or quantity h) Number of refills i) Refill duration and/or quantity (value and unit of measure) j) Prescriber first and last name Note: This same list also applies to the Pharmacy Service Comparative View.		
DHDR05.03	The Drug Dispense Comparative View MUST include the patient's expanded drug dispense history retrieved from the DHDR EHR Service.	The drug dispense history from the DHDR EHR Service MUST include the same information identified in the Drug Dispense Summary View. (Refer to DHDR04.01 for the list of information to include.) The EMR Offering MUST display the full list of events retrieved from the DHDR EHR Service. Displaying events in their grouped format is NOT acceptable.	M	P
DHDR05.04	The EMR Offering MUST have the functionality to allow the user to show and hide the patient's DHDR EHR Service drug dispense history in the Drug Dispense Comparative View.	Hiding the drug dispense history retrieved from the DHDR EHR Service will result in the display of just the prescription and medication records from the EMR Offering.	M	P

2.3.3 Drug Dispense Detailed View

The following EMR requirements apply to functionality specific to the Drug Dispense Detailed View.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR06.01	The EMR Offering MUST have the functionality to display the Drug Dispense Detailed View.	<p>The following information for each drug dispense event retrieved from the DHDR EHR Service MUST be displayed in the Detailed View:</p> <p>a) All information required in the Summary View</p> <p>In addition, the Detailed View MUST display the following information:</p> <p><u>Drug Information</u></p> <p>b) Drug Identification Number (DIN) or Product Identification Number (PIN) (Medication.code.coding.code)</p> <p>c) Medical condition/reason for Use [see “reasonCode” in MedicationRequest Profile]</p> <p>d) Therapeutic class [Medication.code.coding[3].display]</p> <p>e) Therapeutic sub-class [Medication.code.coding[4].display]</p> <p>f) Current Rx number [MedicationDispense.identifier.value]</p> <p><u>Prescriber Information</u></p> <p>g) Prescriber ID (e.g., practitioner license or CPSO number) (Practitioner.identifier.value)</p> <p>h) Prescriber Professional ID [Practitioner.identifier.system]</p> <p><u>Pharmacy Information</u></p> <p>i) Pharmacist name (Practitioner.name.given), (Practitioner.name.family)</p> <p>j) Pharmacy phone number [Organization.telecom[1].value]</p>	M	P

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		<p>It is acceptable to leverage and expand on the Summary View, instead of creating a separate View, if all information included in the Detailed View is displayed on the same screen.</p> <p>Important: At a minimum, the EMR Offering MUST support CPSO and CNO Prescriber information. EMRs Offerings used in other care settings (e.g., midwives, pharmacists) SHOULD support prescriber information for the care settings they are utilized in.</p> <p>Note: The Prescriber Professional ID is the regulatory body to which the prescriber belongs (e.g., College of Physicians and Surgeons of Ontario, College of Nurses of Ontario).</p>		

2.3.4 Pharmacy Service Summary View

The following EMR requirements apply to functionality specific to the Summary View for Pharmacy Service Events.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR07.01	The EMR Offering MUST have the functionality to display the Summary View for pharmacy service events.	<p>The following information for each pharmacy service event retrieved from the DHDR EHR Service MUST be displayed in the Summary View:</p> <p><u>Service Information</u></p> <ul style="list-style-type: none"> a) Packaged date [MedicationDispense.whenPrepared] b) Pickup date (MedicationDispense.whenHandedOver) c) Pharmacy service type [MedicationDispense.medicationReference.Medication.code.coding[1].display] d) Pharmacy service description [MedicationDispense.medicationReference.Medication.code.coding[2].display] 	M	P

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		<u>Pharmacy Information</u> e) Pharmacy name [Organization.name] f) Pharmacist name (Practitioner.name.given), (Practitioner.name.family) g) Pharmacy fax number [Organization.telecom[2].value]		
DHDR07.02	The EMR Offering MUST have the functionality to group related pharmacy service events in the Pharmacy Service Summary View.	<p>Pharmacy service events MUST be grouped when the following values match for two or more events:</p> <p>a) Pharmacy service type [MedicationDispense.medicationReference.Medication.code.coding[1].display]</p> <p>A group of events MUST be sorted by Service Date with the most recent event first, by default.</p> <p>A group is represented by displaying only the most recent event in that group according to the Service Date.</p> <p>A group MUST be identified differently than an event that is not part of any group.</p> <p>The EMR Offering MUST generate and indicate the count of individual events represented within each group.</p> <p>Refer to the Summary View section of the Business View document in this specification for a sample illustration of the grouping of events.</p>	M	P
DHDR07.03	The EMR Offering MUST be able to expand a grouping of pharmacy service events.	The EMR Offering MUST have the functionality to allow the EMR user to display the individual pharmacy service events in the group.	M	P

2.3.5 Pharmacy Service Comparative View

The following EMR requirements apply to functionality specific to the Pharmacy Service Comparative View.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR08.01	The EMR Offering MUST have the functionality to display the Pharmacy Service Comparative View of the patient's history.	<p>The Pharmacy Service Comparative View MUST display a side-by-side view of the following information about the patient on the same window:</p> <ul style="list-style-type: none"> a) Prescription and medication records from the EMR Offering (Refer to DHDR05.02 for the information to include) b) Pharmacy Service history from the DHDR EHR Service (Refer to DHDR08.02 for the information to include) <p>The EMR Offering MUST distinguish between the records from the EMR Offering and the events from the DHDR EHR Service.</p> <p>Note: Functionality to reconcile between EMR records and DHDR EHR Service events is not required.</p>	M	P
DHDR08.02	The Pharmacy Service Comparative View MUST include the patient's expanded pharmacy service history retrieved from the DHDR EHR Service.	<p>The pharmacy service history from the DHDR EHR Service MUST include the same information identified in the Pharmacy Service Summary View. (Refer to DHDR07.01 for the list of information to include.)</p> <p>The EMR Offering MUST display the full list of events retrieved from the DHDR EHR Service. Displaying events in their grouped format is NOT acceptable.</p>	M	P
DHDR08.03	The EMR Offering MUST have the functionality to allow the user to show and hide the patient's DHDR EHR Service pharmacy service events in the Pharmacy Service Comparative View.	Hiding the pharmacy service history retrieved from the DHDR EHR Service will result in the display of just the prescription and medication records from the EMR Offering.	M	P

2.4 Patient Consent Directive

A patient consent directive blocks access for an EMR Offering to retrieve that patient's drug dispense history information from the DHDR EHR Service. The following requirements in this section and sub-sections apply where a patient consent directive is encountered.

2.4.1 PCOI Connection

The URL key value for the PCOI Viewlet is published as parameters within the toolbar parameter. The toolbar parameter resides in the OAuth2 token request return. The EMR Offering extracts and uses the key value to launch the PCOI Viewlet when an EMR user proceeds with a temporary patient consent unblock.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR09.01	The EMR Offering MUST extract and use the PCOI key value in order to interact with the PCOI Viewlet.	<p>It is not acceptable to hard code the PCOI endpoint value in the EMR Offering.</p> <p>The PCOI key – used to retrieve the PCOI Viewlet endpoint value - is found in the toolbar parameter in the OAuth2 token request return. Refer to “PCOI_url” in the Generic Use Case section of the ONE Access Viewlet Framework document for more information on how to identify the appropriate key and how to retrieve the PCOI endpoint value.</p> <p>Note: The toolbar parameter contains additional parameters for other purposes.</p>	M	P

2.4.2 Identifying a Patient Consent Directive

The following EMR requirements apply to EMR functionality specific to searching immunization events.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR09.02	The EMR Offering MUST be able to identify a patient consent directive received from the DHDR EHR Service.	<p>When attempting to retrieve the patient's drug dispense history, the DHDR EHR Service may return a patient consent directive instead of the patient's drug dispense history. The EMR Offering MUST be able to identify that a temporary patient consent block exists.</p> <p>Refer to the "Consent Indicator in OperationOutcome" section in the DHDR HL7 FHIR Implementation Guide for information on identifying a consent block.</p>	M	P
DHDR09.03	The EMR Offering MUST display a message where a consent block exists from the DHDR EHR Service.	<p>Where a consent block directive exists, the EMR Offering MUST be able to display a message informing the EMR user of the consent block. The EMR Offering MUST display the following message to the EMR user.</p> <p><i>"Access to Drug and Pharmacy Service information has been blocked by the patient."</i></p>	M	P
DHDR09.04	The EMR Offering MUST prompt the EMR user with options to respond to the patient consent directive.	<p>The EMR Offering MUST provide the EMR user with the following choices to continue with a temporary patient consent unblock:</p> <ul style="list-style-type: none"> a) Continue (The patient agrees to proceed with a temporary patient consent unblock) b) Refuse (The patient refuses to proceed with a temporary patient consent unblock) <p>Important: The choice to continue, refuse or cancel a temporary patient consent unblock occurs within the EMR Offering. Refer to the "Proceeding with a temporary consent override" section of this document for more information on how to proceed with a temporary patient consent unblock.</p>	M	U

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		The EMR Offering MUST log the continuation or refusal choice selected and the reason, where applicable.		
DHDR09.05	The EMR Offering MUST provide the EMR user with the ability to cancel the temporary consent block without having to choose to continue or refuse.	The EMR Offering MUST log an action that cancels the workflow as a cancellation.	M	P
DHDR09.06	The EMR Offering MUST inform the EMR user if a temporary consent unblock is refused or cancelled.	<p>Where the EMR user chooses not to proceed with a consent override, the EMR Offering MUST display the following appropriate message:</p> <p>Message to display if the response is: Refuse</p> <p><i>"Access to Drug and Pharmacy Service Information has been refused by the patient."</i></p> <p>Message to display if the response is: Cancel with the reason given</p> <p><i>"Access to Drug and Pharmacy Service Information has been cancelled."</i></p>	M	P

2.4.3 Proceeding with a Temporary Consent Override

The following section (and its sub-sections) defines EMR requirements to proceed with a Temporary Consent Override request by the EMR user through the EMR Offering to the DHDR EHR Service after the patient has accepted consent. The DHDR EHR Service will need context data to be set and the PCOI Viewlet launched which will collect all the necessary information to accept the patient's consent. Once patient consent information is collected and complete, the Viewlet will automate the request to temporarily override consent for the requesting clinic organization to which the EMR user belongs. Although there is supporting functionality documented in the "Ontario Digital Health Drug Repository (DHDR) – Point of Care Systems Access – HL7 FHIR Implementation Guide", the EMR Offering needs to follow functionality defined in this section.

2.4.3.1 Setting the Context Data in the Context Management Service

The following EMR requirements apply to EMR functionality specific to setting context data in the Context Management System.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR10.01	The EMR Offering MUST adhere to all Context Sharing requirements when setting the patient context data.	<p>When setting the patient context data, the EMR Offering MUST adhere to the requirements set out in the Context Sharing document in the EMR EHR Connectivity Specification.</p> <p>Refer to the Context Sharing documents in the EHR Connectivity Specification and the ONE Access Viewlet Framework document for more information on how to set patient context data.</p>	M	P
DHDR10.02	The EMR Offering MUST be able to submit a consent change event in the Context Management Service (CMS) before launching the PCOI Viewlet.	<p>Where a patient chooses to continue with the consent override, the EMR Offering MUST submit the consent change request for the DHDR EHR Service to the CMS.</p> <p>IMPORTANT: Refer to "OH.consentTargetChange" in the ONE Access Viewlet Framework document for more information on the consent change event.</p>	M	P

2.4.3.2 Initiating a Consent Override Request to the PCOI Viewlet

The following EMR requirement applies to EMR functionality specific to initiating a consent override request.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR10.03	Where the EMR user chooses to proceed with the consent override, The EMR Offering MUST have the functionality to present the EMR user with the PCOI Viewlet.	Where the EMR user chooses to proceed with the consent override, the EMR Offering MUST have the functionality to launch a Viewlet. Refer to “User Interacts with the PCOI Viewlet” in the ONE Access Viewlet Framework document for more information on PCOI Viewlets.	M	P

2.4.3.3 Handling Consent Override Responses from the PCOI Viewlet

The following EMR requirements apply to EMR functionality specific to processing a consent override response.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR11.01	The EMR Offering MUST be able to process PCOI Viewlet responses.	Once the PCOI Viewlet processes the consent override request, the EMR Offering MUST be able to process the following possible responses returned from the PCOI Viewlet: a) Successful: Consent has been overridden b) Failed: Consent was not accepted or failed Note: There may be a scenario where the EMR does not receive a timely response from the PCOI Viewlet. In this scenario where no response is returned by the PCOI Viewlet, the EMR should assume is that it was successful.	M	P
DHDR11.02	The EMR Offering MUST be able to support the PCOI Viewlet print functionality.	The EMR Offering MUST have the ability to support printing from the PCOI Viewlet to print to a local printer.	M	P

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR11.03	Where patient consent override was provided, the EMR Offering MUST re-submit the request and display the patient's drug and pharmacy service information from the DHDR EHR Service.	The EMR Offering MUST be able to automatically re-submit the drug and pharmacy service information from the DHDR EHR Service that was submitted prior to the temporary consent unblock.	M	P
DHDR11.04	Where patient consent override was successful, the EMR Offering MUST notify the EMR user that the consent is temporarily unblocked.	The following message MUST be displayed: <i>"The patient has temporarily unblocked access to view and use their drug and pharmacy information."</i>	M	P

2.5 Ontario Drug Benefit (ODB) Formulary and Exceptional Access Program (EAP)

The following EMR requirements apply to EMR functionality specific to ODB formulary and EAP.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR12.01	The EMR Offering MUST provide a link to the "Check Medication Coverage – Drug Formulary" within the EMR workflow used to prescribe medication.	<p>The link MUST be made available on the same screen where the EMR user inputs the required information for a prescription.</p> <p>Refer to "Check Medication Coverage – Drug Formulary" in the Related Documents, References and Sources section of this document for the URL to make available to the EMR user.</p> <p>It is acceptable to implement functionality to open the link within the EMR Offering (e.g., iFrame) or using an external browser window.</p> <p>It is recommended to make the URL a configurable value and restricting the ability to change the value to limited EMR user(s).</p>	M	P

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR12.02	The EMR Offering MUST provide a link to the EAP within the EMR workflow used to prescribe medication.	<p>The link to the EAP MUST be provided to the EMR user. Refer to “Special Authorization Digital Information Exchange” (SADIE) in the Related Documents, References, and Sources section for the URL.</p> <p>The link MUST be made available on the same screen where the EMR user inputs the required information for a prescription.</p> <p>It is acceptable to implement functionality to open an external browser to the Drug Formulary.</p> <p>It is recommended to make the URL a configurable value. It is acceptable to restrict authorization to change the value to limited EMR user(s).</p>	M	P

2.6 Printing and Reporting

The following EMR requirements apply to EMR functionality specific to printing and reporting medication events. The following EMR requirements apply to functionality specific to printing and auditing for the DHDR EHR Service and are supplementary to the requirements identified in the Primary Care Baseline Specification.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR13.01	EMR Offering MUST provide a function to print the patient’s drug dispense history and pharmacy service history retrieved from DHDR EHR Service.	<p>The print functionality MUST support printing of each of the following Views:</p> <ul style="list-style-type: none"> a) Summary View (both types of dispenses) b) Detailed View (drug dispenses only) c) Comparative View (both types of dispenses) <p>The printed document MUST contain:</p> <ul style="list-style-type: none"> a) the patient’s demographic information (i.e., first and last name, HCN, date of birth, gender, age) as maintained by the EMR Offering, on each page printed on each page printed. 	M	U

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		<ul style="list-style-type: none"> b) the date and time printed, on each page c) the page number on each printed page d) the record count to indicate the total number of records printed e) all data elements required for the View f) all records retrieved from a request (i.e., not just the events that fit on the screen being displayed), ordered in reverse chronological order by dispense date (with the most recent dispense date first) <p>When printing the Summary View, the EMR Offering MUST print the fully expanded format of the Summary View. Printing only the grouped format of the information retrieved is NOT acceptable.</p> <p>It is recommended that any applied filtering and sorting be identified on the printed copy.</p>		
DHDR13.02	The EMR Offering MUST include the disclaimer when printing drug dispense events retrieved from the DHDR EHR Service.	<p>The following message MUST be included on each page for which drug dispense event(s) are printed:</p> <p><i>“Warning: Limited to Drug and Pharmacy Service Information available in the Digital Health Drug Repository (DHDR) EHR Service. 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 EHR Service.”</i></p> <p>The disclaimer MUST be included on the printed record regardless of whether the EMR user has suppressed the disclaimer from their view when retrieving information from the DHDR EHR Service.</p>	M	P
DHDR13.03	The EMR Offering MUST be able to generate a report on all temporary consent unblock requests submitted to PCOI the DHDR EHR Service.	<p>The report MUST include the following information from the EMR Offering:</p> <ul style="list-style-type: none"> a) Date and time the request was made to override a patient consent unblock 	M	P

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		<p>b) First and Last Name of the EMR user who requested the temporary consent unblock</p> <p>c) Unique ID of the patient related to the transaction</p> <p>d) Patient First and Last Name</p> <p>e) Patient Health Card Number</p> <p>The report MUST also include the following information from the PCOI Service:</p> <p>f) Status of the consent unblock returned from PCOI (e.g., cancelled, success)</p> <p>At a minimum, the EMR Offering MUST allow the EMR user to search the report by the following patient data:</p> <p>a) Patient Last Name</p> <p>b) Patient Health Card Number</p> <p>Refer to “Viewlet Framework Response Codes” in the ONE Access Viewlet Framework document for more information on the status of consent unblock.</p>		
DHDR13.04	When printing the patient’s drug dispense events, the print functionality MUST include a confidentiality statement.	The confidentiality statement MUST be displayed on each page printed. The confidentiality statement MAY be configurable.	M	P

2.7 Error and Warning Management

The following EMR requirements apply to functionality specific to error warning and management for the DHDR EHR Service.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR14.01	The EMR Offering MUST be able to provide notification to the EMR user of errors received from the DHDR EHR Service.	<p>The EMR user MUST be notified of any error or warning messages received from the DHDR EHR Service. This also includes when there is a lack of communication from the EHR Service.</p> <p>It is suggested that notifications to the EMR user be user-friendly.</p> <p>At a minimum, the notification MUST inform the EMR user who initiated the transaction with the EHR Service. Simply logging the error is insufficient.</p> <p>Warning messages MUST be clear, concise, and provide the user with appropriate direction to resolve the issue or receive support.</p> <p>Refer to the “HTTP Response Codes” section of the DHDR HL7 FHIR Implementation Guide for more details on error messages that can be returned by the DHDR EHR Service.</p>	M	P

2.8 Logging and Auditing

EMR systems log various information and interactions and may contain private health information (PHI). As a result, consideration should be taken to log only what is necessary to avoid unintentionally saving or providing access to logged PHI and should be regarded with the same sensitivities as data containing PHI. The following EMR requirements apply to functionality specific to logging and auditing for the DHDR EHR Service and are supplementary to the requirements identified in the Primary Care Baseline Specification.

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
DHDR15.01	The EMR Offering MUST log all interactions with the DHDR EHR Service.	<p>At a minimum, the following information MUST be logged for each interaction:</p> <ul style="list-style-type: none"> a) The interacting EHR Service (e.g., fixed as the “DHDR EHR Service”) b) A transaction identifier generated by the EMR Offering, if available 	M	U

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		<ul style="list-style-type: none"> c) A transaction identifier generated by the DHDR EHR Service d) Date and time the transaction was initiated e) The EMR user (or system) that initiated the transaction f) The transaction type (e.g., retrievals, consent unblock requests) g) The transaction status (success, failure) h) Any transaction return code and the message from the DHDR EHR Service i) Resource IDs for both the FHIR Message and Medication Dispense (MessageHeader.id and MedicationDispense.id, respectively) <p>The above information MUST be accessible from within the EMR interface by an EMR user with the appropriate permissions.</p> <p>Any additional information needed to facilitate troubleshooting and auditing MUST also be logged.</p> <p>All temporary consent unblock requests encountered by the EMR Offering MUST also be logged as part of this requirement.</p> <p>Refer to the “HTTP Response Codes” section of the DHDR HL7 FHIR Implementation Guide for more details on error messages that can be returned by the DHDR EHR Service and to the “ Infrastructure Resources” section for more information on the FHIR Message ID</p>		
DHDR15.02	The EMR Offering MUST log all requests to override a patient consent directive.	<p>The following patient consent directive data from the EMR Offering MUST be logged:</p> <ul style="list-style-type: none"> a) Date and time of the request to override a patient consent directive b) Unique ID of the EMR user that initiated the transaction c) Unique ID of the patient related to the transaction 	M	P

OMD #	REQUIREMENT	GUIDELINES	M/O	STATUS
		<p>The following data from interactions with the DHDR EHR Service MUST be logged:</p> <ul style="list-style-type: none"> d) Unique Message ID of the request for drug dispense history e) Type of transaction with the DHDR EHR Service attempted f) Response status from the DHDR EHR Service (OperationOutcome) <p>Refer to the “OperationOutcome Resource” section in the DHDR HL7 FHIR Implementation Guide for response status information provided by the DHDR EHR Service to capture.</p> <p>Refer to “Resource – Base Resource Definitions” in the DHDR HL7 FHIR Implementation Guide for the Unique Message ID as it applies to the retrieval of the medication history.</p>		
DHDR15.03	The EMR Offering MUST log each instance where an EMR user chooses to suppress the disclaimer displayed when retrieving information from the DHDR EHR Service.		M	P

3. APPENDIX A: ADDITIONAL REFERENCES

The following is a table of supporting documentation and recommended reading.

ID	NAME	VERSION	DATE
1	Electronic Health Record Request for Correction to Personal Health Information Policy (Ontario Health, Digital Services, 2020) https://ehealthontario.on.ca/en/our-privacy-commitment	N/A	2020-09-30
3	Health Care Provider Access to Drug and Pharmacy Service Information – Questions and Answers (Ministry of Health, 2019) https://www.ontario.ca/mydruginfo	N/A	2019-04-18
4	HL7 FHIR Release 4 (Health Level Seven, 2019) https://hl7.org/fhir/	4.0.1	2019-11-01
5	Medicine Act, 1991 (Ministry of Health, 2009) https://www.ontario.ca/laws/statute/91m30	N/A	2009-12-14
6	MedsCheck (Ministry of Health, 2016) http://www.health.gov.on.ca/en/pro/programs/drugs/medscheck/	N/A	2016-07-04
7	Pharmacy Smoking Cessation Program (Ministry of Health, 2019) http://www.health.gov.on.ca/en/pro/programs/drugs/smoking/	N/A	2019-06-26
8	Temporary Unblocking of Access to Drug and Pharmacy Service Information Form (Ministry of Health, 2016) http://www.forms.ssb.gov.on.ca/mbs/ssb/forms/ssbforms.nsf/FormDetail?OpenForm&ACT=RDR&TAB=PROFILE&SRCH=1&ENV=WWE&TIT=5047-87&NO=5047-87E	N/A	2016-11