



Medication History for Populations

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1. Medication History for Populations

This guide is Based on HL7 FHIR release 4.

About Medication History for Populations Panel

The Medication History for Populations Panel Management solution is designed to help health systems, hospitals, and accountable care organizations (ACO) manage cost-effective care for patient populations outside of the patient visit by providing a comprehensive medication history of both Pharmacy Benefit Manager (PBM) claim data and pharmacy dispensed fill data that can be used to calculate medication adherence scores, stratify risk, and identify gaps in care for more careful monitoring of higher risk groups.

Note: Throughout the remainder of the guide the “Medication History for Populations Panel” product will be referred to as “Panel”.

About Medication History for Populations Prescription Notifications

Prescription Notifications provides near real-time alerts when key medication-related events occur, helping care teams quickly identify adherence concerns, treatment gaps, or new activity that may affect a patient’s care plan. This service uses timely pharmacy-dispensed data and continuous monitoring every four hours to surface actionable insights directly within customer workflows.

By evaluating refreshed daily fill data such as when a medication is picked up, refilled, or not filled as expected, Prescription Notifications determines whether an event meets the customer-selected criteria and delivers the appropriate notification.

Note: The First Fill Not Picked Up notification is based on NewRx data and refreshed daily.

Prescription Notification Types

The following prescription notification types are described as follows:

New Medication

A New Medication (NewRx) notification occurs when the Fill Number field is 00, indicating the pharmacy has defined it as the original fill, and the Date Picked Up/Dispensed Field is populated.

Note: The prescription number is not considered when determining a new medication, as prescription numbers can be reused.

Refill

A Refill (Refill) notification occurs when the Fill Number field in the medication record is greater than 00, indicating this is not the original fill and the date picked up/dispensed field is populated.

New Prescriber

A New Prescriber (NewPrescriber) notification occurs when a new medication record has 00 in the Fill Number field, indicating the pharmacy has defined it as the original fill, the date picked up/dispensed field is populated and the prescriber’s DEA, NPI, and/or SPI varies from all other prescribers within the last four months of the patient’s medication history.

Controlled Substance

A Controlled Substance (ControlledSubstance) notification occurs when a new or refill medication record for the patient has a value greater than 0 in the Drug Class field, indicating the medication is a controlled substance and the date picked up/dispensed field is populated.

No Refills Remaining

A No Refills Remaining (NoRefillsRemaining) notification occurs when a medication is picked up where the number of refills originally authorized is greater than zero and the number of refills remaining on the picked-up medication is zero.

Refill Not Picked up

A Refill Not Picked Up (RefillNotPickedUp) notification occurs from a daily search for medications picked up by the patient where additional refills were authorized. If the date picked up, plus days' supply, and default grace period of three days has passed, and the next due refill is not found, a **Refill Not Picked Up** notification is generated. Notifications are generated one time per prescription refill that is not picked up.

Note: Contact your Surescripts Account Manager if you would like to change the three-day grace period to a different length of time. Surescripts recommends using a grace period anywhere from one to five days.

Monitored Medication

A Monitored Medication (MonitoredMedRx) notification occurs when a specific medication chosen by the customer is picked up from the pharmacy. This is customizable by Surescripts or the Customer via National Drug Code (NDC). Notifications are generated one time per prescription refill that is picked up.

Note: Customers identify the medications they wish to monitor through the Surescripts Customer Support process as indicated in the Support chapter of the Network Operations Guide.

Patient Paid Cash

A Cash Pay (CashPayRx) notification occurs when Payment Code field provided is "01" indicating Private Pay (Cash, Charge, Credit Card).

First Fill Not Picked Up

A First Fill Not Picked Up (FirstFillNotPickedUp) notification is triggered when a **NewRx** prescription is authorized but the patient does not pick up the medication within **three days** of the written date.

Notes:

- Additional contracting may be needed. Contact your Surescripts Account Manager to confirm whether the **First Fill Not Picked Up** service is available for your organization.
- To adjust the default three-day grace period, contact your Surescripts Account Manager. Surescripts recommends a grace period of one to five days.

About Medication History for Populations Patient File Load

The Medication History for Populations Patient File Load process is used by customers to enroll patients of interest. This process is currently used by the following products:

- Medication History for Populations (Panel)
- Medication History for Populations (Prescription Notifications)

Refer to the [Patient File Load Process Flow](#) topic for detailed information.

About This Guide

This guide is designed to assist customers in:

- Enrolling patients for Medication History for Populations (Panel) and Medication History for Populations (Prescription Notifications).
- Develop software to deliver historical claim data from PBMs/payers and pharmacy fill data for customer-defined populations to ACOs, healthcare entities, and third-party vendors for analysis.
- Serve as a high-level specification document to engage vendors in implementing the Medication History for Populations FHIR® release 4 API.

The audience for this document includes any customer or vendor responsible for developing a system interface for these electronic messages.

Document References

Please refer to the following documents when reading this guide:

Surescripts-provided materials:

Connectivity and Authentication Implementation Guide

Network Operations Guide

For Prescription Notifications, access the topic pertaining to Searching and Managing Notifications by Therapy Class in the Notifications Dashboards Workbench Help guide.

External materials to be obtained by the customer:

[HL7® FHIR® Release 4](#)

[US Core Implementation Guide](#)

HL7® FHIR®

Portions of this Guide utilize the HL7® FHIR® standard messaging release 4 as a baseline. In conjunction with this Surescripts Implementation Guide, participants should have a copy of the FHIR® standard document readily available for use with the transactions. Documentation can be obtained through HEALTH LEVEL SEVEN®.

The HL7® FHIR® standard is copyrighted. For licensing and legal terms information, refer to the following link:

<https://www.hl7.org/fhir/license.html>

2. Integration & Production

The following section defines related technical and support elements needed to achieve certification for moving into production, along with our Integration, Compliance, and Certification processes.

Integration Process

When a customer begins integrating a Surescripts product into their application(s), they will be provided access to all the Surescripts documentation pertaining to the product being implemented. In addition, customers will be provided access to the staging environment to design, develop and test the product integration within their application.

Note: The time frame of the project can vary depending on the customer's resource allocation for the project.

Meeting Requirements

During Integration, customers will ensure their system has met all product requirements. The message validation testing will focus on message format, application workflow and display in accordance with Surescripts documentation. Upon successful completion of message validation and, when applicable, other pre-production network requirements (e.g., Identity Proofing, Attestations, DEA audit), customers will be enabled in production.

For requirements, consider the following:

- To ensure high-quality transactions, Surescripts applies additional business rules above and beyond the schema defined requirements that will cause a message to be successful or rejected.
- Surescripts test cases do not cover all possible scenarios in production. Customers are responsible for testing any other applicable scenarios specific to their production environment.
- In accordance with the customer's legal agreement with Surescripts, each customer is responsible for ensuring compliance with all applicable laws including, but not limited to, local and state laws/regulations where doing business.

Transition to Production

Once certification testing is complete and the contract is approved by the Surescripts Certification Review Board, the customer is ready to move into production. Surescripts will configure the production connection and ensure successful operations with the customer. Prior to the transition to production, Surescripts Account Management will work with the customer and internal Surescripts teams to discuss the following:

- Production support contacts (Escalation Matrix - A tool that helps the customer know exactly who to contact and how issues will be escalated if initial support cannot resolve them.)
- Support process and training
- Support availability

Surescripts Terminology Usage

For terminology usage throughout this guide, consider the following:

Term	Term usage
must	Requirements that are enforced as part of the production code or Surescripts business rules.
shall	The requirements customers are required to meet in order to be certified on the Surescripts network. These requirements will be enforced as part of certification.
should	Used for guidance and best practices to produce superior results and enhance electronic messaging. Best practices can also be found in Best Practice sections. Customers are encouraged, but not required, to meet best practices in order to be certified on the Surescripts network.

Communication Rules

Please refer to the Connectivity and Authentication Guide for details regarding communication and security protocol requirements as well as references to all links and IP addresses associated with Surescripts services. For the network to be reliable, there are communication rules to which all customers must adhere.

Note: For authentication, requests will use mTLS where the client will provide a client certificate.

Secure FTP

Contact your Surescripts resource for Secure FTP requirements.

UTC Time Format

By using Coordinated Universal Time (UTC), the receiver of a message will know the time regardless of their time zone. For example: If a message was sent from Boston at 5:30PM EDT (Eastern Daylight Time), the time would be sent as 21:30 UTC time. If this message was received in Chicago CDT (Central Daylight Time), the 21:30 UTC could be converted to the local CDT time of 4:30PM. Refer to http://en.wikipedia.org/wiki/Coordinated_Universal_Time, or <http://www.w3.org/XML/> for more information. UTC time must be synchronized with NIST (National Institute of Standards and Technology) and the difference must be less than one minute. Drift of no more than one minute will be acceptable.

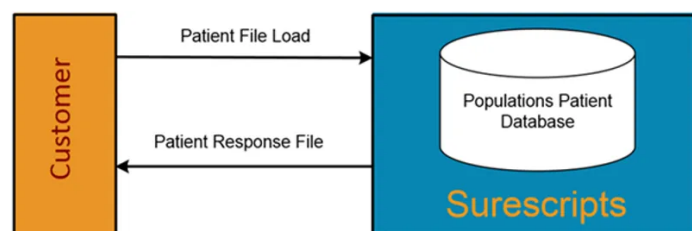
When sending only a Date (not Date and Time), it should be sent in your local time zone, and the receiver should interpret it in their local time. Neither party should attempt to convert the Date to UTC.

All standard programming languages should have a function for generating a date in the UTC time zone or displaying a date in the local time zone. The format of the date/time fields in the XML schema must use the xsd:dateTime format. Examples of that format are: CCYY-MM-DDTHH:MM:SS.FZ, where the UTC time zone may be specified as Z, + 00:00, or - 00:00. For example, 2013-01-01T16:09:04.5Z, or 2013-01-01T16:09:04.5-00:00, or 2013-01-01T16:09:04.5+00:00, where 16:09:04.5Z would be 16 hours, 09 minutes, 04 seconds, 5 fractional seconds. UTC time is denoted by either the "Z" in the first example or the "-00:00" in the second example, or the "+00:00" in the third example. The fractional seconds is not required. Refer to xsd:dateTime for more information.

For simple date fields that do not include the time portion, the format is: CCYY-MM-DD.

3. Process Overviews

Patient File Load Process Flow



1. The customer generates and posts the Patient File Load (onto the SFTP site) that identifies which patients they want to enroll for Medication History for Populations.
 - Patients enrolled in Medication History for Populations (Prescription Notifications) are enrolled until the specified **End Monitoring Date**. Customers can define the End Monitoring Date (which *must* be set for a future time period) on the initial load, which automatically stops notifications at that point. If no value for End Monitoring Date is specified, then patient processing will continue until an End Monitoring Date is loaded.
 - Patients enrolled for Medication History for Populations (Panel) are enrolled for a one time medication history response.

Note: If a patient does not grant access to their data, then the customer is responsible for excluding the patient from the Patient File Load.

2. Surescripts validates the submitted file.
3. Surescripts generates and posts onto the SFTP site the Patient Response File for retrieval. The response file notifies the customer that the Patient File Load was received and provides details into any errors that were encountered during the validation process.
4. The customer should review the Patient Response File to determine if a file and/or patient resubmission is required due to errors.

Note: Only resubmit records that have errors.

Patient File Load Maintenance

Enrolled Patients across Panel Management and Prescription Notifications are designated through the use of **PatientHashID**, which is generated from the following fields submitted in the enrollment request:

- Patient First Name
- Patient Last Name
- Date of Birth
- Patient ID
- NPI (for treatment based use case only)

A patient is counted once as an enrolled for each unique combination of these fields. A change to any of these fields in a subsequent file, without prior unenrollment, will result in a new unique record being counted. For more information on unenrollment, see Deleting a Previously Enrolled Patient below.

Prescription Notifications Recipient and Patient Identity

Prescription Notifications uses the following to identify a notification recipient and each patient that recipient has enrolled.

Intended Recipient of a Notification

- Sender ID
- NPI

Patient the Recipient is Monitoring

- Assigning Authority
- Patient ID

Note: Sender ID is from the file header (HDR) record. The rest of the fields are from the patient detail record.

Updating a Previously Enrolled Patient

To change data for a patient, submit the patient in a patient file using the updated information for the patient. Updates can be made to any data in the patient details other than Patient Name, Patient Date of Birth, NPI, Assigning Authority, and Patient ID.

Updates can include:

- Change of patient demographics (address fields and gender)
- Adding / removing Notifications Requested for this Patient
- Changes to the End Monitoring Date

Deleting a Previously Enrolled Patient

It is not possible to delete an enrolled patient; however, customers can stop receiving notifications for a patient. This is accomplished by updating the **End Monitoring Date** of the patient to a desired future date. Once the update is processed by Surescripts and the date is reached, no notifications will be generated for the patient.

Note: All patients who are currently being monitored can be unenrolled from Prescription Notifications with a UNR file load (Panel does not apply to this feature). See [Detail Information for Unenrollment](#).

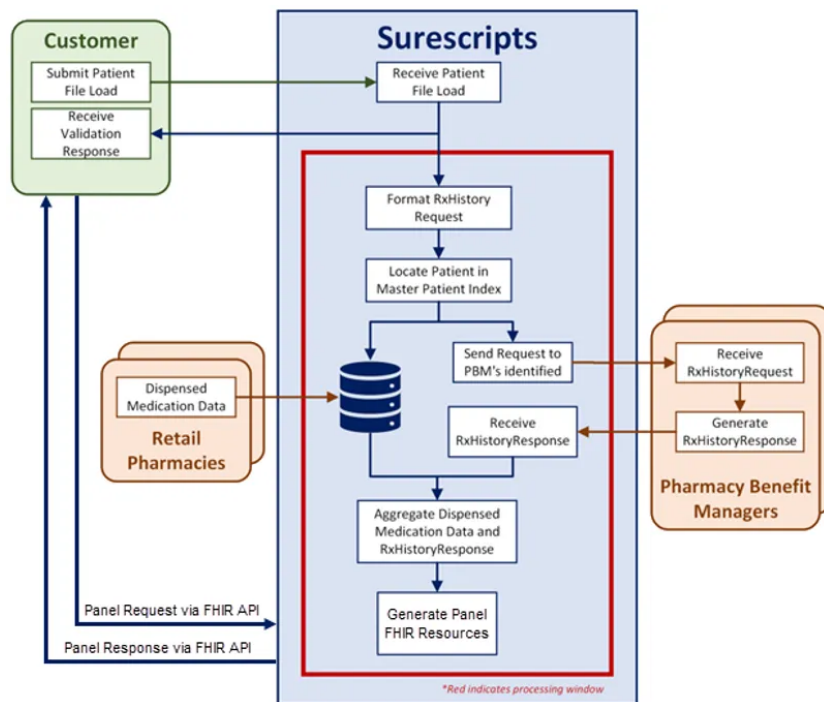
Enrolling or Adding a New Patient or Notification Recipient

Please consider the following when enrolling or adding a new patient or notification recipient:

- New patients (Assigning Authority plus Patient ID) received in a patient file load will be validated and loaded.
- New recipients (Sender ID, NPI) with associated patient detail (PMA) records will be validated and loaded.
- A new recipient for a patient already monitored by a different recipient will be validated and loaded independently from the original recipient record. Surescripts considers the combination of Sender ID, NPI, Assigning Authority, and Patient ID to be the unique keys to a record being monitored for notifications.

Panel Process Flow

The diagram below illustrates the customer process flow.



The following steps depict the process flow:

1. The customer generates and posts the Patient File Load (onto the SFTP site) that identifies which patients they want to enroll for Medication History for Populations.

Patients enrolled for Medication History for Populations Panel Management are enrolled for a one-time medication history response.

Note: If a patient does not grant access to their data, then the customer is responsible for excluding the patient from the Patient File Load.

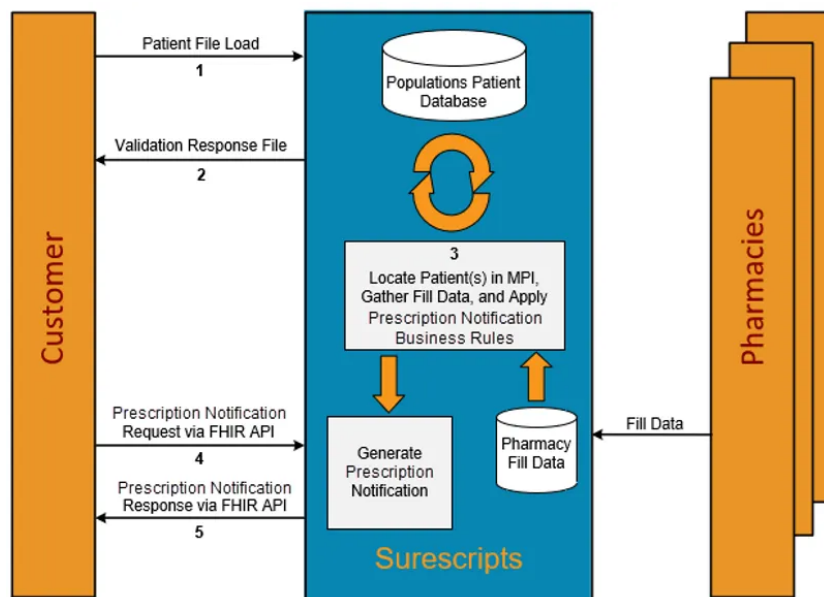
2. Surescripts validates the submitted file and generates and posts a Validation Response File in the SFTP folder for retrieval. This response notifies the customer that the Patient File was received. The response file also provides details into any errors that were encountered during the input panel validation. The Panel user should plan to resubmit the records with errors after correcting the error. For example, a record rejected due to invalid zip code format.

Note: To avoid a duplicative response charge, please ensure you are only resubmitting those records with errors. Do not correct the errors and resubmit the full file (i.e. if you submit a request with 100 patients and 25 errors were returned, the correction file should only contain 25 revised records).

3. Surescripts locates patients using the Master Patient Index (MPI). For patients found:
 - The medication history request is routed to the appropriate PBM/payer for processing. This data contains any claim on file for medications where the pharmacy benefit may be used and may be reversed if the medication is returned to stock.
 - The medication history request also calls on the dispensed medication fill database, which is updated regularly by pharmacies connected to Surescripts. This data contains records for dispensed medications and includes both cash and coupon pay.
4. Surescripts retrieves and aggregates available Dispensed Fill Data and claims Medication History data for all successfully loaded patients listed on the Patient File.
5. The customer application requests panel data via the FHIR API.
6. Surescripts responds back to the customer with panel data via the FHIR API.

Prescription Notification Process Flow

The diagram and process steps described below provides an overall view how the patient file load works with the notifications FHIR flow.

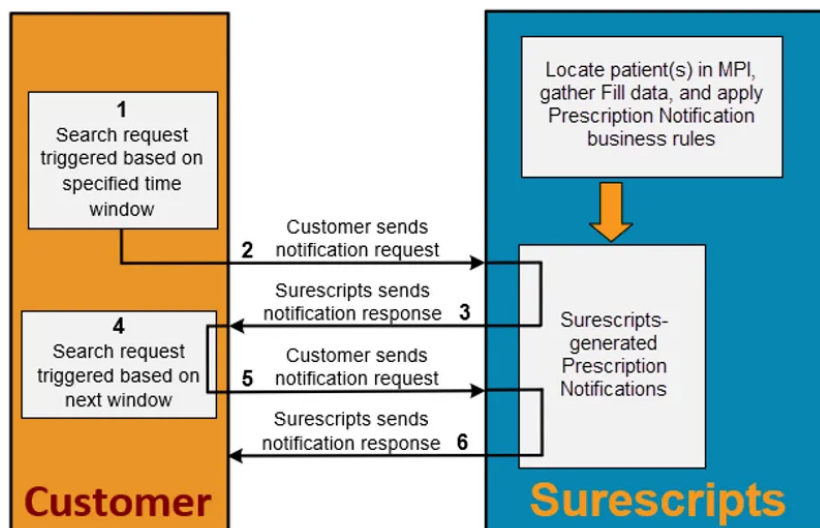


1. The customer generates a file that identifies which patients they want to enroll for Prescription Notifications, and then posts that file to the Surescripts SFTP site.

Note: If a patient does not grant access to their data, then the customer is responsible for excluding the patient from the Patient File Load.

2. Surescripts validates the submitted patient load file, then generates and posts a Validation Response File in the SFTP folder for retrieval, which notifies the customer that the Patient File was received. The response file provides details about any errors that were encountered during the file validation. Populations users should plan to resubmit corrected records. For example, a record that was rejected due to invalid zip code format.
3. Surescripts runs an MPI match against enrolled patient records stored in the Populations Patient database every four hours. Surescripts retrieves and gathers available fill data for all patients that were found while processing business rules for Prescription Notifications to generate alerts.
4. The customer's application requests patient notification data via the FHIR API.
5. Surescripts responds back to the customer with patient notification data via the FHIR API.

Prescription Notifications FHIR API Message Flow



1. A back-end call is made from the customer's system to retrieve prescription notifications for a specified time period.

For example, the customer created a notification request to be sent at 12:00 pm (UTC), returning all notifications generated over the last six hours (6:00 am to 12:00 pm).

```
GET https://FDQN/ext/v1/Communication?category=notification&_lastUpdated=gt2025-01-20T06:00:00Z&_lastUpdated=lt2025-01-20T11:59:59Z&_count=1000
```

2. The customer's system sends the patient notification request to Surescripts via the FHIR API.
3. Surescripts receives the notifications operation request, and sends all prescription notifications that fit the time request window.
4. A subsequent back-end call is generated from the customer's system to retrieve prescription notifications for a specified time period (*beginning where the previous request time ended*).

For example, the customer created a notification request to be sent at 6:00 pm (UTC) to return all notifications generated over the last six hours (12:00 pm to 6:00 pm).

```
GET https://FDQN/ext/v1/Communication?category=notification&_lastUpdated=gt2021-01-20T12:00:00Z&_lastUpdated=lt2021-01-20T17:59:59Z&_count=1000
```

5. The customer's system sends the patient notification request to Surescripts via the FHIR API.
6. Surescripts receives the notifications operation request, and sends all prescription notifications that fit the time request window.

This process repeats indefinitely for each notification time window request.

Message and File Validation

Surescripts ensures that customers are in compliance with the message and file specifications outlined in this Guide during Integration Testing and will continue to enforce these requirements once in production.

At a minimum, Surescripts validations include:

- Sender identification and authentication
- Recipient identification

- Syntax compliance, including:
 - Field lengths
 - Required fields
 - Data types
 - Number of repeats
 - Code values
- Surescripts business rules and applicable requirements

4. Messages Overview

Medication History for Populations FHIR Object Model

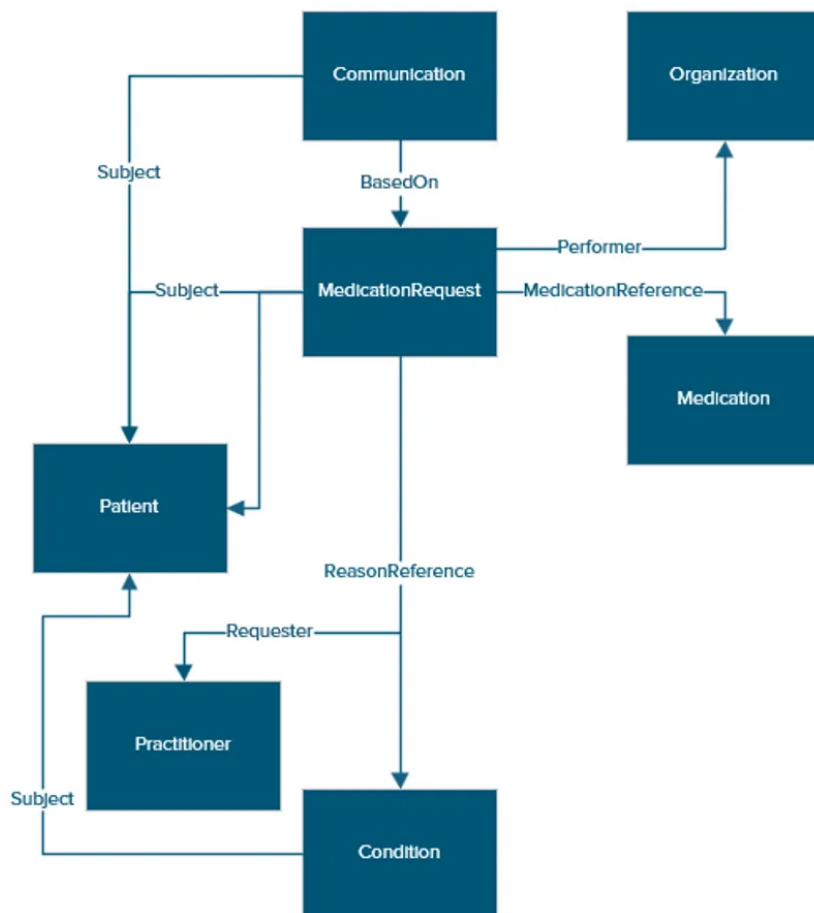
Panel and Prescription Notifications (except **First Fill Not Picked Up**) are mapped using the following object model in the Surescripts FHIR server. This model illustrates the relationships between the various resources involved.



Note: Prescription Notifications is constrained to 1...1 relationship between the Communication and Medication Dispensed FHIR resources.

Prescription Notification - First Fill Not Picked Up FHIR Object Model

The Prescription Notification for First Fill Not Picked Up (FFNPU) is mapped using the following object model in the Surescripts FHIR server. This model illustrates the relationship between the resources involved and bases the **Communication** resource on the **MedicationRequest**, since the medication has not been dispensed or picked up by the patient.



About Medication History for Populations FHIR API

Medication History for Populations is implemented with FHIR® Release 4.

Panels and Prescription Notifications are retrieved using a search request. Search operation should contain parameters for at least a start and end date with time. The following should be considered:

- This creates a window of time for which panel responses and/or notifications are retrieved.
- The maximum retrieval frequency rate for running a search request should be every two hours in the past.
- The parameters specified identify what FHIR resources will be retrieved.
- Results paging is supported.

The search operation is stateless, which means requesting the same window multiple times will result in the same response.

- It is the customer's responsibility to track which panels and notifications have already been processed, and handle duplicates appropriately.
- Identical notification *will not* appear twice within a bundle, but duplicates may occur across multiple bundles depending on the retrieval window used, as well as Surescripts internal generation of notifications.

Response will be a bundle of FHIR® resources which represent a FHIR response.

- Resources include (but not necessarily limited to): Bundle, Patient, Organization, Practitioner, MedicationRequest, MedicationDispense, Medication, Condition, and Communication.

Data Deduplication and Augmentation in FHIR API Panel Messages

Data deduplication and augmentation are optional features and require no configuration or certification by the provider vendor. The customer may opt-in to one or both features.

- **Data deduplication:** Surescripts removes duplicate medication history dispense data across data sources. A duplicate medication record is defined as the same medication for the same patient, written by the same provider, dispensed on the same day at the same pharmacy.
- **Data augmentation:** Surescripts adds data to missing fields from data suppliers. For example, by adding address or phone in the Pharmacy or Prescriber segment.

Notes:

- Surescripts offers two options for deduplication and augmentation: Basic and Premium. For more information, contact your account manager.
- Surescripts will never overwrite or replace existing data from data suppliers.
- Logic used to identify duplicates and data fields augmented is subject to change. Please work with a Surescripts Account Manager or Integration resource for more information.

Medication History for Populations Request

Medication History for Populations Panel and Prescription Notifications are primarily retrieved using a FHIR search of the Communication resource.

For details on request parameter rules and definitions, such as LastUpdated, refer to [Medication History for Populations Element Details](#).

Note: Times specified for the request must use [UTC format](#). To receive search requests within the desired time window, make sure to convert your local time to this format.

Base prefix for Communication: **GET https://FQDN/ext/v1/Communication**

Associated FHIR resource bundles:

- Patient
- Organization
- Practitioner
- Medication Request
- Medication Dispense
- Medication
- Condition
- Communication
- Capability Statement
- Operation Outcome

FHIR Message Response Types

Type	Description	Recommended Fix
SSL Connect Error	Missing Client Certificate This error is due to missing client certificate in the request.	Include client certificate
400 – Bad Request	Missing or badly formatted parameter(s). The data provided in the query string will not validate to the rules. The response will return a bundle with an OperationOutcome. Example: _lastUpdated date of 2018-09-0600:00:00Z is formatted incorrectly. Refer to the Bad Request Message Example for more information.	The error messages defined on the model will appear in the OperationOutcome so that the query parameters can be manually corrected to resolve the issue.
401 – Unauth orized	Invalid certificate issuer or subject The request is received with a client certificate, but it is not matched with what is configured at Surescripts.	Use the same certificate configured.
403 – Forbidd en	Product is not set up for this participant ID, or resource ID requested is not permitted for your participant ID.	Check if setup by Surescripts. Verify the resource ID returned from a previous FHIR request.
404 – Not Found	Resource does not exist	
200 – OK	Response with or without results	If no results appear, there were no notifications generated within the provided search window.

5. Patient File Overview

Note: Refer to the [Patient File Load Examples](#) section of this guide to view the code structure.

Patient File Load Naming

The File Load naming convention is: <CustomerName>_PMA_<YYYYMMDD-XX>.<CompressionFormat>. Surescripts recommends compressing the file prior to transmitting it to Surescripts. The current zip protocols that are supported are gzip, bzip2 and zip.

Example: `AC0Company_PMA_20201204-01.gz`

Patient Response File Naming

The naming convention is <InputFileName sans extension>.<sstimestamp>.<sstimestamp>.rsp.

Example: `AC0Company_PMA_20201204-01.20201204012025.20201204012025.rsp`

Patient File Load Format

The Patient File Load format will be pipe-delimited (hex7c). Each field is delimited by the pipe character (|). If a pipe-character (hex7c) is used in field data, it must be escaped with \F. For example, Main | Street would be listed as Main \F Street. Each line is to be separated by a new line (hex0A) character.

For detailed field information, refer to the Request File Elements and Patient File Load Examples sections. Validation and Error Code details are available in [File Load Validation and Error Code Details](#).

Note: If mandatory fields are not included, the Patient File Load and/or patient record will not pass validation, and the patient will not be loaded or monitored. All conditional fields must be accounted for, either with data, or a placeholder delimiter.

6. Panel Patient File Record Element Details

Data Element Requirements

Requirement Designation:

Code	Description
mandatory	The element must be used per the specification (e.g., XML schema validation). Note: The term mandatory applies to mandatory and required fields in the different standards. For example, FHIR uses the term required.
conditional	The element is to be used per the conditions specified.
optional	Some fields do not have specific conditions. Data should be sent if available.

Note: This guide includes data elements only where Surescripts has specific requirements or further explains the field usage.

Patient File Load Request Elements

Request Header (HDR) Elements

Note: Certain errors pertaining the Record Type and Transmission File Type fields could result the file not being processed, which would cause the response file to not be generated, preventing the visibility of resulting errors.

Field	Field Name	Data Type	Code	Comments	Values or Examples
0	Record Type	an3	mandatory	Assigns the following string of data to its desired action.	Value: HDR
1	Version	an3. .5	mandatory	Indicates the version of Medication History for Populations.	3.0
2	Sender ID	an15	mandatory	A unique identification number assigned by Surescripts indicating the sender of the file.	Example: P00000000023456
3	Sender Password	an10	mandatory	The password to be utilized by the customer to access the Surescripts system.	Example: M94WJ7CW6H
4	Receiver ID	an1.. .15	mandatory	A unique identification number assigned by Surescripts indicating the receiver of the file.	Values: - S000000000000003 - Panel Used for Medication History for Populations (Panel and Prescription Notifications) use cases except Health Plans - S000000000000005 - Health Plans Used for Medication History for Populations (Panel and Prescription Notifications) use cases for Health Plans Note: S000000000000006 Patient File Load has been deprecated.
5	Transmission Control Number	an1.. 10	mandatory	A unique identifier defined by the sender used to map the Patient File Load to the Patient Response file. This field can contain numerical or alphabetical characters and must be unique to each file transmission.	Example: 1234567891
6	Transmission Date	Format: CCY YM MD D	mandatory	The date the file was transmitted to Surescripts.	
7	Transmission Time	Format:	mandatory	The time the file was transmitted to Surescripts.	

Field	Field Name	Data Type	Code	Comments	Values or Examples
		HH MM SS DD	ory		
8	Transmission File Type	an1..4	mandatory	Identifier indicating the type of Patient Load File for Medication History for Population. Fixed Value: PMA	Value: PMA
9	No longer in use, field present but will remain null				
10	Extract Date	Format: YYYYMMDD	mandatory	The date the file was created (extracted) from the source.	Example: 20240603
11	Usage Indicator	an1	mandatory	Indicates the environment where the transaction will take place.	Values: • T = Test • P = Production
12	Patient Population ID	an1..64	mandatory	A value assigned to a population by the customer that is provided in the patient file load. This field can contain numerical or alphabetical characters.	Example: HighRisk
13	No longer in use, field present but will remain null				
14	Look Back Period in Months	n1..3	conditional	Configurable field specifying the number of months to look back from the request date. If left blank, the field defaults to 12 months. Notes: • Request Start and End Date override Look Back period when both are provided. • Not used for Prescription Notifications	Example: 12
15	Data Source Type	an3	conditional	Specifies which medication history data sources to include in the response.	Values: • FIL - Only Dispensed Fill data

Field	Field Name	Data Type	Code	Comments	Values or Examples
			nal	This element allows the requester to limit the response to claim data, dispensed fill data, or both. Notes: - If this element is not populated (empty), both Claim and Dispensed Fill data are returned. <i>Do not</i> send the literal value NULL. To request both data sources, leave the element empty. - This element is <i>not used</i> for Prescription Notifications.	CLM - Only Claim data (empty) - Claim and Dispensed Fill data
16	Request Start Date	Format: CCY YMD	conditional	The beginning date (UTC) for the desired history. May be left empty or customized to pull data a maximum of 12 months. The default value is set to 12 months from submission if left null. Note: Not used for Prescription Notifications	Example: 20250204
17	Request End Date	Format: CCY YMD	conditional	The end date (UTC) for the desired history. The default value is set to submission date if left null. Cannot contain a future date. Note: Not used for Prescription Notifications	Example: 20260204

Request Details (DTL) Elements

Field	Field Name	Data Type	Code	Comments	Values or Examples
0	Record Type	an3	mandatory	Assigns the following string of data to its desired action. Note: Patient file loads with PAT or PNM record types cannot be combined with UNR record types.	Values: - PAT – Prescription Notifications and Panel enrollment - PNM – Panel Management enrollment - PMA – Patient Notification enrollment
1	Record Sequence Number	n1..10	mandatory	Unique number for the detail record in the received file where the first record begins with "1" and each subsequent record is incrementally increased by 1 as the file is processed.	Examples: 1 2 3
2	Assigning authority	an1..64	mandatory	Unique ID for the organization/system that assigned the related patient ID. Assigning authority should be a GUID . Surescripts recommends representing assigning authority as an OID .	Example: 1.3.44444.666.3.2.1
3	Patient ID	an1..35	mandatory	The patient specific unique identifier provided by the panel user.	Example: 593431
4	Last Name	an2..35	mandatory	The last name of the patient. This field must contain more than 2 characters.	Example: WAYNE
5	First Name	an2..35	mandatory	The first name of the patient. This field must contain more than 2 characters.	Example: TOM
6	Middle Name	an2..35	conditional	The middle name of the patient. Sent to aid in patient matching.	Example: J
7	Prefix	an1..10	conditional	The prefix for the patient. Sent to aid in patient matching.	Example: Mr.
8	Suffix	an1..20	conditional	The suffix for the patient. Sent to aid in patient matching.	Example: II
9	Address Line 1	an1..55	conditional	First line of the patient address without any C/O type information. Sent to aid in patient matching.	Example: 123 Street Avenue
10	Address Line 2	an1..55	conditional	Second line of the patient address without any C/O type information. Sent to aid in patient matching.	Example: Unit #41
11	City Name	an2..30	conditional	Patient city name. Sent to aid in patient matching.	Example: Jacksonville

Field	Field Name	Data Type	Code	Comments	Values or Examples
12	State	an2..55	conditional	State in which the patient resides. Only United States addresses are supported. Note: Both state abbreviations and full state names are supported.	Examples: • Colorado • CO
13	Zip Code	an5..10	mandatory	Patient Zip or zip code must consist of five digits, an optional hyphen (-), and up to four additional digits. The first five characters must only consist of numbers.	Examples: • 55123 • 97116-2245 • 200607011
14	Date of Birth	Format: CCYY MM DD	mandatory	The date of birth for the patient.	
15	Administrative Gender	an8	mandatory	The gender as reported by the patient.	Values: • M – Male • F – Female • N – Non-binary • U – Unknown
16	NPI	n10 (For treatment use cases - S000000000000003) conditional (For health plans - S000000000000005)	mandatory	Individual or Organizational National Provider Identification (NPI) of the requester of the Medication History that is validated by Surescripts against the National Provider Identification file to verify that it exists. Note: A test NPI can be used in staging, as no NPPES validation is used during the testing process.	Example: 1234567893
17	End Monitoring Date	Format: CCYY MM DD	conditional	Indicates the date the customer wants the patient removed from monitoring in Prescription Notifications. If no end date is desired, leave this field empty. Note: <i>The End Monitoring Date must be set to a date after the current date.</i> Prescription Notifications cannot be stopped retroactively. Note: Used for Prescription Notifications only.	
18	Notifications Requested for this Patient	an1..1000	conditional	Defines the notifications the customer wishes to receive for the patient. If this patient is to be monitored for a list of notifications that is shorter than the contracted list, include the individual notifications requested as a comma-separated list.	Values: • PMANewRx • PMARefill

Field	Field Name	Data Type	Code	Comments	Values or Examples
				This field is case-insensitive. Recommendation: Leave this field empty to simplify the addition of new notification types in the future without requiring a Patient File Load reload. Note: Used for Prescription Notifications only.	- PMANewPrescriber - PMAControlledSubstance - PMANoRefillsRemaining - PMARefillNotPickedUp - PMACashPayRx - PMAMonitoredMedRx - PMAFirstFillNotPickedUp
19	Patient Primary Telephone	n10	optional	Patient's primary telephone number.	Example: 5555551234

Request Trailer (TRL) Elements

Field	Field Name	Data Type	Code	Comments	Values or Examples
0	Record Type	an3	mandatory	Assigns the following string of data to its desired action.	Value: TRL
1	Total Records	n1..10	mandatory	Summary of the total detail records submitted in the file	Example: 2

Request Patient Unenrollment

Field	Field Name	Data Type	Code	Comments	Values or Examples
0	Record Type	an3	mandatory	Identifies record type. Value: UNR = Unenroll patients Note: Patient file loads with this record type cannot be combined with PAT, PNM, or PMA record types.	UNR
1	Record Sequence Number	n1..10	mandatory	Number for this detail row in the file.	1
2	Product	an3	mandatory	Product Type. Fixed value: PMA	PMA
3	End Monitoring Date	dt8	mandatory	This is the date when all patients who are currently being monitored will be unenrolled from Prescription Notifications (Panel does not apply). This date must be set in the future from current date.	20281231

Patient File Response Elements

Validation Response Header (SHD) Elements

Field	Field Name	Data Type	Code	Comments	Values or Examples
0	Record Type	an3	mandatory	A single response that signifies the header row of the file	Value: SHD
1	Version	n3...5	mandatory	Indicates the version of Medication History for Populations.	3.0
2	Receiver ID	an3..30	mandatory	A unique identification number assigned by Surescripts indicating the receiver of the file.	Example: P00000000012345
3	Sender ID	an3..30	mandatory	A unique identification number assigned by Surescripts indicating the sender of the file.	Values: - S000000000000003 - Panel - S000000000000005 - Health Plans
4	Transaction Control Number	an1..36	mandatory	A unique identifier defined by the sender used to map the Patient File Load to the Patient Response file. This field will be a GUID in the response from Surescripts.	Example: ec622dd2-dab7-4945-bc2f-a9c0a78c64dd
5	Transaction Date	Format: CCYYMMDD	mandatory	The date the file was transmitted to the customer.	Example: 20241022 would represent October 22, 2024
6	Transaction Time	Format: HHMMSSDD	mandatory	The time the file was transmitted to customer.	Example: 14354587 would represent 14:35:45 and 87 hundredths of a second
7	Transaction File Type	an3	mandatory	Identifier indicating the type of Patient Load File which can accept patient enrollment based on the RecordType value in the detail information.	Value: PMA
8	Transmission Control Number Originating	an1..10	mandatory	Value that echo's the Transmission Control Number sent in the patient file transmitted to Surescripts.	Example: 1234567891
9	Transmission Date- Originating	Format: CCYYMMDD	mandatory	Date Original Incoming File was created.	Example: 20241022 would represent October 22, 2024

Field	Field Name	Data Type	Code	Comments	Values or Examples
10	Transmission Time-Originating	Format: HHMMSSDD	mandatory	Time Original Incoming File was created.	Example: 14354587 would represent 14:35:45 and 87 hundredths of a second
11	File Type	an1	mandatory	Indicates the environment where the transaction was routed.	Values: - T – Test - P – Production
12	Load Status	an2	mandatory	Codified value within the header response explaining the status of the file load. Note: If there is more than one error at the file level, there will be additional errors in detail records with a sequence of 1, null patient ID, and the header response code in the error code field.	Values: 01 – File loaded correctly. 02 – File loaded with errors and/or warnings. 03 – Failed to load file. No data was processed.
13	Load Status Description	an1..250	mandatory	Description of the status of the file load	Values: - File loaded correctly. - File loaded with errors and/or warnings. - Failed to load file. No data was processed.

Validation Response Details (SDT) Elements

Field	Field Name	Data Type	Code	Comments	Values or Examples
0	Record Type	an3	mandatory	A value that signifies a validation error in the details row of the file.	Value: SDT
1	Record Sequence Number	n1..10	mandatory	Unique number for the detail record in the validation response file where the first record begins with "1" and each subsequent record is incrementally increased by 1 as the file is processed.	Example: 3
2	Source Record Sequence Number	n1..10	conditional	Record Sequence Number from the detail row on the request file. This is the value assigned by the sender of the file.	Example: 4
3	Assigning Authority	n1..64	conditional	ID from the request file for the organization/system that assigned the related patient ID.	Example: 1.3.44444.666.3.2.1
4	Patient ID	an1..35	conditional	The patient specific unique identifier provided by the panel user in the request file.	Example: 593431
5	Error Type	an1	mandatory	A single letter categorizing the severity of an error. Categories include: - Warning (W) – Does not fail file or row. - Error (E) – Fails the associated row, row is not processed. - Fatal (F) – Fails entire file, nothing is processed.	Values: - W - E - F
6	Error Code	an10	mandatory	Codified value indicating the error found on this record.	
7	Error Description	an1..250	conditional	Text describing the error found in this record.	

Validation Response Trailer (STR) Elements

Field	Field Name	Data Type	Code	Comments	Field Values/Examples
0	Record Type	an3	mandatory	A single response that signifies the trailer (summary) row of the file.	Value: STR
1	Processed Record Count	n1...10	mandatory	Count of detail patient records processed in file. Note: Error Record Count + Loaded Record Count = Processed Record Count	Example: 100
2	Error Record Count	n1...10	conditional	Count of detail patient records that contained an error and did not load.	Example: 3
3	Loaded Record Count	n1...10	conditional	Count of detail patient records that were loaded for enrollment.	Example: 97
4	Total Error Count	n1...10	conditional	Number of errors listed in the Patient Response File. Note: A single input record could have one or more errors listed in the response file. Total Error Count will be > or = Error Record Count	Example: 7

7. Medication History for Populations Element Details

This section defines the elements used to request and receive prescription notifications via the Medication History for Populations FHIR® API. It describes the data element requirement designations used throughout this guide, the required message structure for search requests, and the FHIR resources returned in the response.

Refer to the following topics for details:

- **HTTP Request Headers**: The HTTP request headers that must be included with FHIR panel and prescription notification messages, including supported content type codes and encodings.
- **FHIR Request Parameters**: The parameters used in the notification search request, including participant identification, lookback window, and paging controls.
- **Medication History for Population Response FHIR Resource Details**: The FHIR resources returned in the search set response bundle, organized by resource type: Patient, Organization, Practitioner, MedicationRequest, MedicationDispense, Observation, Communication, and OperationOutcome.

Refer to the table below for requirement designations (mandatory, conditional, optional) used throughout the other tables in this section.

Data Elements Requirement Designation:

Code	Description
mandatory	The element must be used per the specification (e.g., XML schema validation). Note: The term mandatory applies to mandatory and required fields in the different standards.
conditional	The element must be used per the conditions specified. Note: The term conditional applies to conditional and situational fields in the different standards.
optional	Some fields do not have specific conditions. Data should be sent if available.

Note: This guide includes data elements only where Surescripts has specific requirements or further explains the field usage. Refer to the FHIR resource for a complete list of fields.

7.1. HTTP Request Headers

The FHIR® panel and prescription notifications delivered to the Surescripts service must include the HTTP request headers.

Content Type Codes and Encodings

Please be aware that the only valid **Accept** content type is **application/json+fhir**, where **application/json+fhir** is used as the default value.

Although other content types listed here are supported, the application will only return content that maps to **application/json+fhir**.

Supported content types:

- application/json+fhir (default value)
- application/fhir+json
- application/json
- text/json

HTTP Request Header Elements

Code	Field	Comment
Accept	optional	The Accept request-header field can be used to specify certain media types which are acceptable for the response Values: application/fhir+json
Content-Type	optional	The Content-Type header is to specify the media type of the content being sent. For more information see the Content Types and Encodings section below. Values: application/fhir+json
X-SENDER-UID	mandatory	Participant ID Example: T00000000012345
X-SENDER-UID-QUALIFIER	mandatory	Participant ID Qualifier Fixed: 10
X-Requester-ID	conditional	This will be included in the HTTP Header Request of the FHIR response and identifies the Bundle ID.

HTTP Header Request Example

```
Accept: application/fhir+json
Content-Type: application/fhir+json; charset=UTF-8
X-SENDER-UID: T00000000012345
X-SENDER-UID-QUALIFIER:10
```

FHIR Request Parameters

This section outlines common FHIR parameters that customers may use in their requests. To view the full capabilities of Surescripts Medication History for Populations, retrieve the **CapabilityStatement** resource from the FHIR API.

Note: See the [Messages Overview](#) section for details on how search requests are processed on the back end of your organization's system.

Parameter	Requirement	Description	Example
_lastUpdated	optional	Indicates the date time of search request. Use gt to indicate greater than and lt for less than to define the loopback window of the request. Format must be YYYY-MM-ddTHH:mm:ssZ (in UTC) Note: You may use a smaller lookback window (e.g., last 4 hours or 1 day) when generating panels or notifications. The maximum allowable lookback period is one month from the requested date.	_lastUpdated=gt2026-09-15T11:00:00Z _lastUpdated=lt2026-09-15T15:00:00Z
_include	optional	Identifies resource to be returned in your response. include:iterate must be used for resources beyond the 1st resource requested.	_include=Communication:base-d-on _include=MedicationDispense.prescription _include:iterate=MedicationRequest:requester
_revinclude	optional	Identifies resource to be returned in your response by performing a reverse reference lookup. include:iterate must be used for resources beyond the 1st resource requested.	revinclude=Condition:subject Note: This looks up Condition resources based on the subject (Patient resource).
_page_token	conditional	Indicates which page of results to retrieve. Defaults to 1 if not provided. Required when additional pages are available. The next page's token is supplied in Bundle.link.	_page_token=Ad86NARb_Wb3LSoymHxmqiNWoxEs5Lc5MLHnKI48YRUCE58IC2KYqMET
_count	optional	Size of page that will contain the matches of MedicationDispenses Defaulted to 50 if not populated. Max is 1000.	_count=50
[parameter]:missing	optional	The missing modifier used with a parameter will filter FHIR search results include/exclude results don't have an associated value. True = Values exist False = Values don't exist Note: This can be used to exclude patient results where the patient was not found.	based-on:missing=false

7.2. FHIR Request Parameters

This section outlines common FHIR parameters that customers may use in their requests. To view the full capabilities of Surescripts Medication History for Populations, retrieve the **CapabilityStatement** resource from the FHIR API.

Note: See the Messages Overview section for details on how search requests are processed on the back end of your organization's system.

Parameter	Requirement	Description	Example
_lastUpdated	optional	Indicates the date time of search request. Use gt to indicate greater than and lt for less than to define the loopback window of the request. Format must be <i>YYYY-MM-ddTHH:mm:ssZ</i> (in UTC) Note: You may use a smaller lookback window (e.g., last 4 hours or 1 day) when generating panels or notifications. The maximum allowable lookback period is one month from the requested date.	_lastUpdated=gt2026-09-15T11:00:00Z _lastUpdated=lt2026-09-15T15:00:00Z
_include	optional	Identifies resource to be returned in your response. include:iterate must be used for resources beyond the 1st resource requested.	_include=Communication:based-on _include=MedicationDispense.prescription _include:iterate=MedicationRequest:requester
_revinclude	optional	Identifies resource to be returned in your response by performing a reverse reference lookup. include:iterate must be used for resources beyond the 1st resource requested.	revinclude=Condition:subject Note: This looks up Condition resources based on the subject (Patient resource).
_page_token	conditional	Indicates which page of results to retrieve. Defaults to 1 if not provided. Required when additional pages are available. The next page's token is supplied in Bundle.link.	_page_token=Ad86NARb_Wb3LSoymHxmqiNWoxEs5Lc5MLHnKI48YRUCE58IC2KYqMET
_count	optional	Size of page that will contain the matches of MedicationDispenses Defaulted to 50 if not populated. Max is 1000.	_count=50
[parameter]:missing	optional	The missing modifier used with a parameter will filter FHIR search results include/exclude results don't have an associated value. True = Values exist False = Values don't exist Note: This can be used to exclude patient results where the patient was not found.	based-on:missing=false

7.3. Medication History for Population Response FHIR Resource Details

The response is a normal search set response bundle. The **_lastUpdated** parameter should be used to create the window for which to return the notifications.

The focus of the response will be **Communication** resources. Adhering to FHIR best practices, the minimum necessary information will be returned in each response. Additional referenced resources can be requested using the **_include** or **_include:iterate** parameters.

- **Panel** – Each Communication resource contains MedicationDispense references based on each medication returned from PBM/payers and pharmacies connected to Surescripts. Up to 600 medications may be returned within the lookback requested dates from the last 12 months.
- **Prescription Notifications** – Each Communication resource contains one or more notification type extension elements, which will show the reason for the notification (a single medication can have more than one).

Note: This section is organized by the available FHIR Resources as shown on the right-hand navigation pane.

Patient

This FHIR resource provides demographics and other administrative information about an individual receiving care or other health-related services.

Note: The patient extension defines a complex extension or compound extension.

Example

```
"resourceType": "Patient",
"id": "fec334f9-50ea-4643-a137-1ed4557ae805"
```

Name	Requirement	Comments	Example
identifier	mandatory	The Patient Resource identifier contains the following values: - Data coming from Patient File Load (refer to the associated implementation guide) - System = Assigning Authority (detail record field 2) - Value = Patient ID (detail record field 3) Note: Best practice is to leverage the Medical Record Number when available.	<pre>"identifier": [{ "system": "2.16.840.1.113883.3.2054.2.3.1", "value": "1111990" }, { "system": "http://fhirdocs.surescripts.net/identifiers/participatid", "value": "T00000000111321" }]</pre>
active	mandatory	Identifies whether resource is currently in use.	<pre>"active": true,</pre>
meta	mandatory	Provides metadata about the resource.	<pre>"meta": { "lastUpdated": "2025-02-16T17:23:48.432697+00:00", "profile": ["http://hl7.org/fhir/us/core/StructureDefinition/us-core-patient 4.1.0"], "versionId": "MTczOTcyNjYyODQzMjY5NzAwMA" },</pre>
name	mandatory	FHIR® Human Name: - Use = Official - Family = family name, often called surname - Given = given name, first and middle name - Prefix = Parts that come before the name - Suffix = Parts that come after the name	<pre>"name": [{ "family": "ROBINSON", "given": ["COZMO"] }]</pre>
phone	optional	The patient's phone number gathered from Pharmacy Fill data.	<pre>"telecom": [{ "system": "phone", "value": "7185987658" }],</pre>
gender	mandatory	Patient gender value coded to match the Administrative Gender Codes.	<pre>"gender": "female"</pre>

Name	Requirement	Comments	Example
birthdate	mandatory	Patient Date of Birth. Conforms to the FHIR® date/time standards.	"birthdate": "1931-07-06"
address	mandatory	Patient Address including line, city, state, and postal code.	"address": [{ "line": ["2377 66th AVENUE"], "city": "MANHATTAN", "state": "NY", "postalCode": "10000" }]

Organization

This FHIR resource provides information about the pharmacy.

Example

```
"resourceType": "Organization"  
"id": "09207555-197c-49q9-9525-726cb5aa111a"
```

Name	Requirement	Comments	Example
identifier	mandatory	The Organization resource identifiers include: - Pharmacy NCPDPID - Data coming from Patient File Load (refer to the associated implementation guide) - The pharmacy's 10-digit National Provider Identifier number - Data Source Reference ID Value: - Pharmacy dispensed fill record = - P2 (Prescription Notification) - Pharmacy (Panel) - Claim Record = Payer - NewRx Record = Prescriber	<pre>"identifier": [{ "system": "http://fhirdocs.surescripts.net/identifiers/participantid", "value": "T00000000111321" }, { "system": "http://fhirdocs.surescripts.net/identifiers/organization-type", "value": "P2" }, { "system": "http://hl7.org/fhir/sid/us-npi", "value": "1144235417" }, { "system": "https://terminology.hl7.org/6.0.2/CodeSystem- NCPDPPProviderIdentificationNumber.html", "value": "0501468" }], "identifier": [{ "system": "http://surescripts.net/fhir/identifiers/ncdpdpid", "value": "3390705" }</pre>
active	mandatory	Identifies whether resource is currently in use.	<pre>"active": true,</pre>
meta	mandatory	Provides metadata about the resource.	<pre>"meta": { "lastUpdated": "2025-02-16T17:23:48.432697+00:00", "profile": ["http://hl7.org/fhir/us/core/StructureDefinition/us-core-patient 4.1.0"], "versionId": "MTczOTcyNjYyODQzMjY5NzAwMA" },</pre>
name	optional	Name of pharmacy	<pre>"name": " Walgreens"</pre>
telecom	optional	Pharmacy phone number System = phone or fax	<pre>"telecom": [{ "system": "phone",</pre>

Name	Requirement	Comments	Example
			<pre>"value": "5035558839" }]</pre>
address	optional	Pharmacy address	<pre>"address": [{ "line": ["555 AVENUE X"], "city": "BUFFALO", "state": "NY", "postalCode": "666665117" }] }</pre>

Practitioner

This FHIR resource provides information about the individual directly or indirectly involved in healthcare provisioning.

Example

```
"resourceType": "Practitioner"
"id": "8111cd95-1c5a-4a8f-be37-71c4178888f6"
```

Name	Requirement	Comments	Example
identifier	optional	The Practitioner resource identifiers include: • Data coming from Patient File Load (refer to the associated implementation guide) • 10-digit valid NPI • DEA Number • State License number	<pre>"identifier": [{ "system": "http://hl7.org/fhir/sid/us-npi", "value": "1831620525" } { "system": "http://hl7.org/fhir/sid/us-dea", "value": "BP6645216" } { "system": "http://fhirdocs.surescripts.net/identifiers/participantid", "value": "T00000000111321" }]</pre>
meta	mandatory	Provides metadata about the resource.	<pre>"meta": { "lastUpdated": "2025-02- 16T17:23:48.432697+00:00", "profile": ["http://hl7.org/fhir/us/core/StructureDefinition/ us-core-patient 4.1.0"], "versionId": "MTczOTcyNjYyODQzMjY5NzAwMA" },</pre>
name	mandatory	FHIR® Human Name: • Use = Official • Family = family name, often called surname • Given = given name, first and middle name • Prefix = Parts that come before the name • Suffix = Parts that come after the name	<pre>"name": [{ "family": "HASHEMI", "given": ["ALEX"] }]</pre>
telecom	optional	A contact detail for the practitioner, for example, a telephone number or an email address.	<pre>"telecom": [{ "system": "phone", "value": "2122416639" }]</pre>
address	optional	Prescriber office address.	<pre>"address": [{</pre>

Name	Requirement	Comments	Example
			<pre>"line": ["95 10TH AVE"], "city": "BROOKLYN", "state": "NY", "postalCode": "11215" }] }</pre>

MedicationRequest

This FHIR resource provides an order for both supply of the medication and the instructions for administration for the patient.

Example

```
"resourceType": "MedicationRequest"  
"id": "e6aa023c-419a-4174-9caa-9ad5e4c0a111"
```

Name	Requirement	Comments	Example
identifier	mandatory	The Medication Request identifier values included are: - pharmacy-prescription-number – Prescription number assigned by the pharmacy. - electronic-rx-order-number – Order Number on the NewRx. Present for eRx. - electronic-rx-ref-number – Prescription Reference Number. Present for eRx. Panel only identifiers include: - BIN number of the insurance used - Card holder number - Plan code - Payment code - PCN for the insurance used	<pre>"identifier": [{ "system": { http://fhirdocs.surescripts.net/identifiers/prescription-number, "value": "222243636" }, { "system": {http://fhirdocs.surescripts.net/identifiers/electronic_order_number, "value": "R1C113elec_pres_order_no" }, { "system": {http://fhirdocs.surescripts.net/identifiers/electronic_rx_ref_number, "value": "00000000000000000000000005871842664474" } { "system": { http://hl7.org/fhir/us/core/StructureDefinition/us-core-prescription-bin-number, "value": " 020107_BIN" }, { "system": { http://hl7.org/fhir/us/core/StructureDefinition/us-core-prescription-cardholder-number, "value": "R1C113elec_pres_order_no" }, { "system": { http://hl7.org/fhir/us/core/StructureDefinition/us-core-prescription-plan-code, "value": "02_Medicaid" }, { "system": { http://hl7.org/fhir/us/core/StructureDefinition/us-core-prescription-payment-code, "value": "01_PrivatePay" }, }</pre>

Name	Requirement	Comments	Example
			<pre>{ "system": { "http://hl7.org/fhir/us/core/StructureDefinition/us-core-prescription-pcn", "value": " 01410000_PCN" } { "system": "http://fhirdocs.surescripts.net/identifiers/participantid", "value": "T00000000111321" } },</pre>
meta	mandatory	Provides metadata about the resource.	<pre>"meta": { "lastUpdated": "2025-02-17T19:41.453737+00:00", "profile": ["http://hl7.org/fhir/us/core/StructureDefinition/us-core-medicationrequest 4.1.0"], "versionId": "MTczOTgxOTUwMTQ1MzczNzAwMA" },</pre>
status	mandatory	A code specifying current state of the order. Generally, this is an active or completed state.	"status": "completed",
intent	mandatory	Whether the request is a proposal, plan, or an original order.	"intent": "order"
medicationReference	mandatory	Link to a resource representing the medication ordered.	<pre>"medicationReference": { "reference": "Medication/1e9de5e5-a7a4-4a09-a87d-77b181c00e25" },</pre>
reasonReference	optional	Link to a resource representing the diagnosis why the medication was ordered.	<pre>"reasonReference": { "reference": "Condition/46f92300-00b4-43ab-974b-62f28de92736" },</pre>
subject	mandatory	Link to a resource representing the person to whom the medication will be given.	<pre>"subject": { "reference": "Patient/4d8fd28e-5c99-436c-9d82-6aaad8d8842a" }</pre>
authoredOn	mandatory	Also known as date written, which is the date when the prescription was initially written or authored on.	"authoredOn": "2025-02-14T23:00:00+00:00"

Name	Requirement	Comments	Example
requester	mandatory	The individual that initiated the request and has responsibility for its activation.	<pre>"requester": { "reference": "Practitioner/47ca5584-2259-4a5a-bb81-69f30c45cd0a" }</pre>
performer	conditional	The actor is the intended dispenser of the medication, the pharmacy details. Note: Only populated for FirstFillNotPickedUp notifications	<pre>"performer": [{ "actor": { "reference": "Organization/701c9e15-14df-4fd0-a791-ebbfa7b39de4" } }]</pre>
dispenseRequest	optional	Number of repeats allowed represents the number of refills originally authorized when available. Value represents the quantity amount of medication to supply per dispense.	<pre>"dispenseRequest": { "numberOfRepeatsAllowed": 3, "quantity": { "value": 90.0 } }</pre>

MedicationDispense

This FHIR resource indicates that a medication product is to be or has been dispensed for a named person/patient. This includes a description of the medication product (supply) provided and the instructions for administering the medication. The medication dispense is the result of a pharmacy system responding to a medication order.

Example

```
"resourceType": "MedicationDispense",
"id": "90428847-c5ca-4182-b868-74e1ca99c04c"
```

Name	Requirement	Comments	Example
meta	mandatory	Provides metadata about the resource.	<pre>"meta": { "lastUpdated": "2025-02-16T19:38.790907+00:00", "versionId": "MTczOTczMzE1ODc5MDkwNzAwMA" },</pre>
extension	optional	Represents the number of refills remaining after this dispense of the medication when available.	<pre>"extension": [{ "url": "http://fhirdocs.surescripts.net/extension/refills-remaining", "valueString": "2" }],</pre>
identifier	mandatory	The MedicationDispense Resource identifier values include the Sender ID data coming from the Patient File Load. Panel only identifiers include: - Pharmacy Source NCPDP ID - Group ID of the insurance used.	<pre>"identifier": [{ "system": "http://fhirdocs.surescripts.net/identifiers/participantid", "value": "T00000000111321" }, { "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPProviderIdentificationNumber.html", "value": "RX8446" }, { "system": "http://terminology.hl7.org/CodeSystem/coverage-class", "value": "COS" }],</pre>
status	mandatory	A code specifying the state of the set of dispense events.	<pre>"status": "completed"</pre>
medication Reference	mandatory	Link to a resource representing the medication ordered.	<pre>"medicationReference": { "reference": "Medication/1e9de5e5-a7a4-4a09-a87d-77b181c00e25" },</pre>

Name	Requirement	Comments	Example
subject	mandatory	Link to a resource representing the person or the group to whom the medication will be given.	"subject": { "reference": "Patient/4d8fd28e-5c99-436c-9d82-6aaad8d8842a" }
performer	conditional	The actor is the dispenser of the medication, the pharmacy details. Note: Not populated for FirstFillNotPickedUp notifications	"performer": [{ "actor": { "reference": "Organization/701c9e15-14df-4fd0-a791-ebbf7b39de4" } }]
authorizing Prescription	mandatory	Indicates the medication order that is being dispensed against. Note: When used in FHIR parameters authorizingPrescription must be included as MedicationDispense.prescription.	"authorizingPrescription": [{ "reference": "MedicationRequest/35983470-963e-42a5-a9ce-a5d0216890f1" }]
type	mandatory	Indicates the type of dispensing event that is performed: - FF First Fill - FFP = First – Part Fill - RF Refill - RFP = Refill – Part Fill For example, display Refill 04 indicates this dispense event is the 4th refill.	"type": { "coding": [{ "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType", "code": "FF", "display": "First Fill" }], E.g. of Refill display Refill 04 indicating Refills Originally Authorized is 04 "type": { "coding": [{ "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType", "code": "RF", "display": "Refill 04" }]],
quantity	mandatory	The amount of medication that has been dispensed. Value = Represents number dispensed to the patient Unit = Represents the Quantity Unit of Measure	"quantity": { "value": 90.0 "unit": "C48155" }

Name	Requirement	Comments	Example
		Note: See Codified Field Usage for Federal Medication Terminologies (FMT) Codes for details.	
daysSupply	mandatory	The amount of medication expressed as a timing amount.	"daysSupply": { "value": 30.0 }
whenPrepared	mandatory	Also known as DateFilled, which is the date when the dispensed product was packaged and reviewed.	"whenPrepared": "2020-04-18"
whenHandedOver	optional	Also known as DatePickedUp, which is the date the dispensed product was provided to the patient or their representative.	"whenHandedOver": "2020-04-18"
dosageInstruction	optional	Also known as SigText, which indicates how the medication is to be used by the patient.	"dosageInstruction": [{ "text": "TAKE ONE TABLET BY MOUTH THREE TIMES A DAY" }]

Medication

This FHIR resource provides the medication label, NDC and DEA schedule details.

Example

```
"resourceType": "Medication",
"id": "b9969cb8-8740-4657-85d1-afb41e7f7509"
```

Name	Requirement	Comments	Example
identifier	mandatory	The Medication Resource identifier contains data coming from Patient File Load.	<pre>"identifier": [{ "system": "http://fhirdocs.surescripts.net/identifiers/participantid", "value": "T00000000111321" }],</pre>
meta	mandatory	Provides metadata about the resource	<pre>"meta": { "lastUpdated": "2025-02-16T19:38.790907+00:00", "versionId": "MTczOTczMzE1ODc5MDkwNzAwMA" },</pre>
code	mandatory	Code is the 11-digit NDC or DEA Drug coding for schedules 1-5. Display is the drug description field, and should include the standardized drug name including strength and form. Note: When all 9s are displayed for the NDC, and it is for fill data, this indicates that the prescription is a compound.	<pre>"medicationCodeableConcept": { "coding": [{ "system": "http://hl7.org/fhir/sid/ndc ", "code": "23155010210", "display": "METFORMIN 500MG TAB" }, { "code": "C38046", "display": "Unspecified", "system": "http://www.dea.gov/drug-scheduling" }] }</pre>

Condition

This FHIR resource captures the diagnosis code as to why the medication was ordered for the patient

Example

```
"resourceType": "Condition",
"id": "46f92300-00b4-43ab-974b-62f28de92736"
```

Name	Requirement	Comments	Example
identifier	mandatory	The Condition Resource identifier contains data coming from Patient File Load.	<pre>"identifier": [{ "system": "http://fhirdocs.surescripts.net/identifiers/participantid", "value": "T00000000111321" }],</pre>
meta	mandatory	Provides metadata about the resource	<pre>"meta": { "lastUpdated": "2025-02-16T19:38.790907+00:00", "versionId": "MTczOTczMzE1ODc5MDkwNzAwMA" },</pre>
code	optional	Code is CodeableConcept that contains diagnosis information. It can include ICD-9, ICD-10 or CDT codes. Display is the diagnosis description field, and should include the standardized diagnosis name for describing the code.	<pre>"code": { "coding": [{ "system": "http://hl7.org/fhir/+sid/icd-10", "code": "E10.1", "display": "Diabetes mellitus without complications" }],</pre>
subject	mandatory	Link to a resource representing the person or the group to whom the medication will be given.	<pre>"subject": { "reference": "Patient/4d8fd28e-5c99-436c-9d82-6aaad8d8842a" }</pre>
category	optional	CodeableConcept that indicates if the diagnosis code represents the primary or secondary.	<pre>"category": { "system": "http://fhirdocs.surescripts.net/coding/diagnosis-category", "code": "Primary" }</pre>

Communication

This resource provides focus for Medication History for Populations FHIR responses. It identifies the response for Panel and Prescription Notifications.

The Communication resources for Panel are based-on and include references to all MedicationDispensed for a specific patient. If there were no medications for a patient during the timeframe of the requested panel, you can get a communication with 0 MedicationDispensed resources.

The Communication resource for Prescription Notifications identifies which notifications are applicable and has a one-to-one relationship with a single MedicationDispensed or MedicationRequest (FirstFillNotPickedUp notifications only) reference.

Example

```
"resourceType": "Communication",  
"id": "ec29328d-67fc-43f0-8a79-75849e94d76b"
```

Name	Requirement	Comments	Example
extension	conditional	Prescription Notifications: The notification-generated-time uses a Date element for the medication dispense. The patient-notification-types valueString is the notification that was alerted on for this medication dispense Alert types values: • NewRx • Refill • NewPrescriber • ControlledSubstance • NoRefillsRemaining • RefillNotPickedUp • CashPayRx • MonitoredMedRx • FirstFillNotPickedUp The valueCoding alert id will identify that specific Prescription Notification alert for support purposes. Panel: • start-date valueString identifies the Request Start Date or start of the lookback period used for the RxHistoryRequest from the Patient File Load data. • end-date valueString identifies the Request End Date or end of the lookback period used for the RxHistoryRequest from the Patient File Load data. • primary-sender-message-id identifies the Sender Message ID for the RxHistoryRequest.	Prescription Notification <pre>"extension": [{ "url": "http://fhirdocs.surescripts.net/coding/patient-notification-types", "valueCoding": { "id": "1b1d5843-0cdc-4788-b309-9822c7da665a", "code": "RefillNotPickedUp" } }, { "url": "http://fhirdocs.surescripts.net/coding/sender-id", "valueCode": " T00000000111321" }, { "url": "http://fhirdocs.surescripts.net/coding/notification-generated-time", "valueDateTime": "2025-12-18T05:58:18+00:00" }], Panel: "extension": [{ "url": "http://fhirdocs.surescripts.net/extension/start-date", "valueString": "2024-02-17" }, { "system": "http://fhirdocs.surescripts.net/identifiers/primary-sender-message-id", "value": "48320906:13759282:1774967833762" }],</pre>

Name	Requirement	Comments	Example
identifier	mandatory	The Communication resource identifiers include: - Data coming from Patient File Load - Sender's Participant ID - Patient Population ID - Panel Only identifiers - Primary Sender Message ID (RxHistoryRequest)	<pre>"identifier": [{ "system": "http://fhirdocs.surescripts.net/identifiers/participantid", "value": "T00000000111321" }, { "system": "http://fhirdocs.surescripts.net/identifiers/alert-population-id", "value": "PATIENTPOPID~" }], { "system": "http://fhirdocs.surescripts.net/identifiers/primary-sender-message-id", "value": "45206310:10634006:1763586868423" },]</pre>
status	mandatory	A code specifying current state of the order. This will always be a completed state.	<pre>"status": "completed",</pre>
meta	mandatory	Provides metadata about the resource.	<pre>"meta": { "lastUpdated": "2025-02-18T15:39:45.079419+00:00", "profile": ["http://hl7.org/fhir/R4/communication"], "versionId": "MTczOTg5MzE4NTA3OTQxOTAwMA" },</pre>
received	mandatory	Populates date/time the FHIR response was retrieved by the customer system.	<pre>"received": "2025-02-18T15:39:44+00:00",</pre>
category	mandatory	The type of message conveyed. Values: - Notification = Prescription Notifications - Panel = Panel	Notification: <pre>"category": [{ "coding": [</pre>

Name	Requirement	Comments	Example
			<pre>{ "system": "http://hl7.org/fhir/communication- category", "code": "notification", "display": "Notification" }]], Panel: "category": [{ "coding": [{ "code": "panel", "display": "Panel", "system": "http://hl7.org/fhir/communication- category" }] }],</pre>
subject	mandatory	The patient that was the focus of this communication.	<pre>"subject": { "reference": "Patient/4a1ff77b-f500- 4b6c-9613-6de9118dd689" }</pre>
based on	conditional	Identifies the MedicationDispense or MedicationRequest references that was the focus of this communication. - Panel will include a reference for each MedicationDispense returned from the RxHistoryRequest lookback period. - Prescription Notification will include a single reference to MedicationDispensed that triggered the notification. - Prescription Notification FirstFillNotPickedUp will include a single reference to the MedicationRequest that triggered the notification Note: If the patient is found but no medication is identified during the look back period, based-on will be omitted.	<pre>"basedOn": [{ "reference": "MedicationDispense/e9afab37- 7a65-4a3b-883f-679eb2df2fa7" }],</pre>
reason code	conditional	Captures the reason for the current state of the communication. Value: Patient Not Found	<pre>"reasonCode": [{ "coding": [</pre>

Name	Requirement	Comments	Example
		Note: Use of this element and its associated reason code is restricted to Medication History Panel workflows.	{ "code": "DJ", "display": "Patient Not Found." }] }],
search	mandatory	Search returns a response that is an exact match for what was specified in the query (using the communication or medication dispensed resource for the notification). Value: Match	"search": { "mode": "match" }

CapabilityStatement

This FHIR resource provides the capabilities supported by the FHIR server.

Note: The Capability Statement resource is retrieved from a separate endpoint and is not included as part of any panels or prescription notification FHIR responses.

Example

```
"resourceType": "CapabilityStatement",
"id": "ec29328d-67fc-43f0-8a79-75849e94d76b"
```

Name	Requirement	Comments	Example
version	optional	Business version of the capability statement	"version": "20250220",
status	mandatory	The status of this capability statement. Enables tracking the life-cycle of the content. Values: • active • draft	"status": "draft",
date	mandatory	Identifies the date the CapabilityStatement was published	"date": "2025-02-20",
publisher	optional	Name of the organization who published the CapabilityStatement. Value: Surescripts	"publisher": "Surescripts",
description	optional	Provides human readable description of the capability statement	"description": "FHIR capability statement",
kind	mandatory	Identifies the intended use of the CapabilityStatement. Value: instance = The CapabilityStatement instance represents the present capabilities of a specific system instance. This is the kind returned by /metadata for a FHIR server end-point.	"kind": "instance",
fhirVersion	mandatory	The version of the FHIR specification that this CapabilityStatement describes	"fhirVersion": "4.0.1",
format	mandatory	Identifies the supported formats supported Value: json	"format": ["json"],
patchFormat	optional	Identifies supported patch formats supported Value: application/json-patch+json	"patchFormat": ["application/json-patch+json"],
rest	optional	Defines the restful capabilities of the FHIR endpoint.	
security	mandatory	Identifies the connectivity security supported Value: mTLS	
resource	optional	Resources are available on the REST interface and describes what capabilities are support for each FHIR resource: • type: Resource type that is supported. • interaction: What operations are supported by the resource. Values: ◦ read ◦ search-type	"resource": ["type": "MedicationDispense", "interaction": [{ "code": "read" }, { "code": "search-type"

Name	Requirement	Comments	Example
		• searchInclude: _include values supported by the server. • searchRevInclude: _revinclude values supported by the server. • searchParam: Search parameters supported by implementation.	<pre> }], "readHistory": false, "updateCreate": false, "conditionalCreate": false, "conditionalUpdate": false, "searchInclude": ["MedicationDispense.medication", "MedicationDispense.performer", "MedicationDispense.subject"], "searchRevInclude": ["Communication.based-on"], "searchParam": [{ "extension": [{ "url": "https://g.co/fhir/StructureDefinition/ CapabilityStatementSearchParameter Modifiers", "valueCoding": { "system": "http://hl7.org/fhir/ValueSet/search- modifier-code", "code": "missing" } }, { "url": "https://g.co/fhir/StructureDefinition/ CapabilityStatementSearchParameter Modifiers", "valueCoding": { "system": "http://hl7.org/fhir/ValueSet/search- modifier-code", "code": "type" } }], "name": "medication", </pre>

Name	Requirement	Comments	Example
			<pre>"definition": "http://hl7.org/fhir/SearchParameter/ medications-medication", "type": "reference" },</pre>
interactions	optional	Operations supported by the system. Value: search-system	<pre>"interaction": [{ "code": "search-system" }</pre>

OperationOutcome

This FHIR resource provides a collection of error, warning, or information messages that result from a system action.

Example

```
"resourceType": "OperationOutcome",
"id": "fg29328d-67fc-22f0-8a79-58412e94d778"
```

Name	Requirement	Comments	Example
issue	mandatory	Defines a single issue associated with the action performed.	<pre>"issue": [{ "severity": "error", "code": "exception", "diagnostics": "_lastUpdated date of 2020-16-19T23:59:59Z is formatted incorrectly." }]</pre>
severity	mandatory	Indicates whether the issue impacts the overall success of the operations. Fixed: Error = Operation was unsuccessful	
code	mandatory	Describes the type of issue in a human and computer-friendly way to allow. Fixed: Exception = An unexpected internal error has occurred	
diagnostics	optional	Details about which query parameter was missing or badly formatted.	

8. Request and Response Examples

FHIR Parameter Explanation

This section helps identify the different parameters in the FHIR search query and what resources they will return. To include a resource, you must request it through the FHIR object model it belongs to.

Example: The MedicationRequest resource must be included in the FHIR search if you want to include the Practitioner resource.

Name	FHIR Resource Returned	Comments
Communication:based-on	MedicationDispense MedicationRequest	MedicationRequest is returned for First Fill Not Picked Up notifications
Communication:subject	Patient	
MedicationRequest:requester	Practitioner	Prescriber of the medication.
MedicationDispense:performer	Organization	Pharmacy that dispensed the medication.
Condition:subject	Condition	Requires _revinclude parameter to obtain Primary/Secondary diagnosis based on the Patient resource.
MedicationDispense:prescription	MedicationRequest	
MedicationRequest:medication	Medication	
MedicationRequest:intended-performer	Organization	Identifies the pharmacy expected to fill a NewRx for First Fill Not Picked Up notifications.

Search Request

The examples below show a sample search request call ran every two hours and at every 24 hours. Using different parameters can narrow the amount of data returned in the response Bundle, or focus on specific results (e.g. Patient Population ID, Patient ID, etc...) to support individual application workflows.

Notification Search Request Call Ran Every Two Hours

XML

GET

https://FQDN/ext/v1/Communication?category=notification&_lastUpdated=gt2025-02-10T10:00:00Z&_lastUpdated=lt2025-02-10T11:59:59Z &

GET

https://FQDN/ext/v1/Communication?category=notification&_lastUpdated=gt2025-02-10T12:00:00Z&_lastUpdated=lt2025-02-10T13:59:59Z &

Notification Search Request Call Ran Every 24 Hours

XML

GET

https://FQDN/ext/v1/Communication?category=notification&_lastUpdated=gt2025-02-10T00:00:00Z&_lastUpdated=lt2025-02-10T23:59:59Z &

GET

https://FQDN/ext/v1/Communication?category=notification&_lastUpdated=gt2025-02-11T00:00:00Z&_lastUpdated=lt2025-02-11T23:59:59Z &

Panel Search Request Call Ran for 24 Hour Panel

This example provides the best practice recommendation for requesting a Panel submitted within the past 24 hours.

Panel Search Request Call Ran for 24 Hour Panel

GET

https://FQDN/ext/v1/Communication?category=panel&_lastUpdated=gt2025-02-26T00:00:00Z&_lastUpdated=lt2025-02-26T23:59:59Z&_count=18

GET

https://FDQN/ext/v1/Communication?category=panel&_lastUpdated=gt2025-02-28T00:00:00Z&_lastUpdated=lt2025-02-28T23:59:59Z&_count=18

Resource ID Search Request

This example shows how you can request a specific FHIR resource leveraging the Resource ID obtained in a previous search request. This example would return the Patient resource associated with id **2816de18-f5ce-4f29-b63a2c4e364b8901**. FHIR resources will be available for **30 days** from when they were generated.

Resource ID Search Request

GET

https://FQDN/ext/v1/Patient/2816de18-f5ce-4f29-b63a2c4e364b8901

Diagnosis Search Request

This example shows how you can request the Condition FHIR resource to obtain the Diagnosis code for why a medication was prescribed if available. This search leverage the Resource ID obtained in a previous search request. This example would return the Patient and Condition resources associated with id **2816de18-f5ce-4f29-b63a2c4e364b8901**. FHIR resources will be available for **30 days** from when they were generated.

Diagnosis Search Request

GET

https://FQDN/ext/v1/Patient?identifier=2816de18-f5ce-4f29-b63a2c4e364b8901&_revinclude=Condition:subject

Search Response

The following is an example response and is not intended to be all inclusive. Below is the response collapsed with additional views of each resource.

Search Response

```
{
  "entry": [
    {
      "fullUrl": "https://FQDN/ext/v1/Communication/9f0c6c1d-028d-4cc4-9469-a8c2809c0ed2",
      "resource": {
        "basedOn": [
          {
            "reference": "MedicationDispense/d2a7ae9a-170b-4211-997f-9c4e8bf38afc"
          },
          {
            "reference": "MedicationDispense/73e9c0f1-3acd-4d48-8f90-4d9c967c5737"
          }
        ],
        "category": [
          {
            "coding": [
              {
                "code": "panel",
                "display": "Panel",
                "system": "http://hl7.org/fhir/communication-category"
              }
            ]
          }
        ],
        "extension": [
          {
            "url": "http://fhirdocs.surescripts.net/extension/start-date",
            "valueString": "2024-02-26"
          },
          {
            "url": "http://fhirdocs.surescripts.net/extension/end-date",
            "valueString": "2025-02-26"
          }
        ],
        "id": "9f0c6c1d-028d-4cc4-9469-a8c2809c0ed2",
        "identifier": [
          {
            "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
            "value": "T00000000112204"
          },
          {
            "system": "http://fhirdocs.surescripts.net/identifiers/population-id",
            "value": "High Risk"
          }
        ],
        "meta": {
          "lastUpdated": "2025-02-26T21:29:30.537207+00:00",
          "versionId": "MTc0MDYwNTM3MDUzNzIwNzAwMA"
        },
        "received": "2025-02-26T21:29:06+00:00",
        "resourceType": "Communication",
        "status": "completed",
        "subject": {
          "reference": "Patient/93564e09-490a-47ff-aaa7-2cf9626caa36"
        }
      }
    },
  ],
}
```

```

    "search": {
      "mode": "match"
    }
  },
  {
    "fullUrl": "https://FQDN/ext/v1/MedicationDispense/73e9c0f1-3acd-4d48-8f90-4d9c967c5737",
    "resource": {
      "authorizingPrescription": [
        {
          "reference": "MedicationRequest/e4b356f0-7b9c-43c8-925c-2e26d705c06f"
        }
      ],
      "daysSupply": {
        "code": "d",
        "system": "https://www.hl7.org/fhir/measure.html",
        "unit": "Day",
        "value": 7
      },
      "dosageInstruction": [
        {
          "sequence": 1,
          "text": "take 1 tablet by mouth twice daily with meals"
        }
      ],
      "id": "73e9c0f1-3acd-4d48-8f90-4d9c967c5737",
      "identifier": [
        {
          "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
          "value": "T00000000112204"
        },
        {
          "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",
          "value": "2420120"
        }
      ],
      "medicationReference": {
        "reference": "Medication/57ad0e36-4ad8-49cb-8323-efe4f39aed35"
      },
      "meta": {
        "lastUpdated": "2025-02-26T21:29:30.537207+00:00",
        "versionId": "MTc0MDYwNTM3MDUzNzIwNzAwMA"
      },
      "performer": [
        {
          "actor": {
            "reference": "Organization/f1658aa4-33ca-47b4-a1ca-10e146777d96"
          }
        }
      ],
      "quantity": {
        "unit": "C48155",
        "value": 180000.0
      },
      "resourceType": "MedicationDispense",
      "status": "completed",
      "subject": {
        "reference": "Patient/93564e09-490a-47ff-aaa7-2cf9626caa36"
      },
      "substitution": {

```

```

    "wasSubstituted": false
  },
  "type": {
    "coding": [
      {
        "code": "FF",
        "display": "First Fill",
        "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType"
      }
    ]
  },
  "whenHandedOver": "2024-04-14T23:00:00+00:00",
  "whenPrepared": "2024-04-14T23:00:00+00:00"
},
"search": {
  "mode": "include"
}
},
{
  "fullUrl": "https://FQDN/ext/v1/MedicationDispense/d2a7ae9a-170b-4211-997f-9c4e8bf38afc",
  "resource": {
    "authorizingPrescription": [
      {
        "reference": "MedicationRequest/9842f3a0-82f7-4b45-94ea-bb165ec8063f"
      }
    ],
    "daysSupply": {
      "code": "d",
      "system": "https://www.hl7.org/fhir/measure.html",
      "unit": "Day",
      "value": 7
    },
    "dosageInstruction": [
      {
        "sequence": 1,
        "text": "take 1 tablet by mouth twice daily with meals"
      }
    ],
    "id": "d2a7ae9a-170b-4211-997f-9c4e8bf38afc",
    "identifier": [
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000112204"
      },
      {
        "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",
        "value": "2420120"
      }
    ],
    "medicationReference": {
      "reference": "Medication/75933b54-db50-46eb-9c33-6b4cb299834d"
    },
    "meta": {
      "lastUpdated": "2025-02-26T21:29:30.537207+00:00",
      "versionId": "MTc0MDYwNTM3MDUZnZlwnZAwMA"
    },
    "performer": [
      {
        "actor": {

```

```

        "reference": "Organization/f1658aa4-33ca-47b4-a1ca-10e14677d96"
      }
    }
  ],
  "quantity": {
    "unit": "C48155",
    "value": 180000.0
  },
  "resourceType": "MedicationDispense",
  "status": "completed",
  "subject": {
    "reference": "Patient/93564e09-490a-47ff-aaa7-2cf9626caa36"
  },
  "substitution": {
    "wasSubstituted": false
  },
  "type": {
    "coding": [
      {
        "code": "FF",
        "display": "First Fill",
        "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType"
      }
    ]
  },
  "whenHandedOver": "2025-01-28T23:00:00+00:00",
  "whenPrepared": "2025-01-28T23:00:00+00:00"
},
"search": {
  "mode": "include"
}
},
{
  "fullUrl": "https://FQDN/ext/v1/Patient/93564e09-490a-47ff-aaa7-2cf9626caa36",
  "resource": {
    "active": true,
    "address": [
      {
        "city": "Cheyenne",
        "line": [
          "194 Cedar LN"
        ],
        "postalCode": "82002",
        "state": "WY"
      }
    ],
    "birthDate": "1950-04-22",
    "gender": "male",
    "id": "93564e09-490a-47ff-aaa7-2cf9626caa36",
    "identifier": [
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000112204"
      },
      {
        "system": "http://terminology.hl7.org/CodeSystem/v2-0203",
        "value": "dzLI4Ghk2Y3sLkpr"
      }
    ]
  },

```

```

    "meta": {
      "lastUpdated": "2025-02-26T21:29:30.537207+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-patient|4.1.0"
      ],
      "versionId": "MTc0MDYwNTM3MDUzNzIwNzAwMA"
    },
    "name": [
      {
        "family": "Swatson",
        "given": [
          "Sill"
        ]
      }
    ],
    "resourceType": "Patient"
  },
  "search": {
    "mode": "include"
  }
},
{
  "fullUrl": "https://FQDN/ext/v1/Medication/57ad0e36-4ad8-49cb-8323-efe4f39aed35",
  "resource": {
    "code": {
      "coding": [
        {
          "code": "55555444422",
          "display": "CITALOPRAM 20MG TABLETS",
          "system": "http://hl7.org/fhir/sid/ndc"
        },
        {
          "code": "C38046",
          "display": "Unspecified",
          "system": "http://www.dea.gov/drug-scheduling"
        }
      ]
    },
    "id": "57ad0e36-4ad8-49cb-8323-efe4f39aed35",
    "identifier": [
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000112204"
      }
    ],
    "meta": {
      "lastUpdated": "2025-02-26T21:29:30.537207+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-medication|4.1.0"
      ],
      "versionId": "MTc0MDYwNTM3MDUzNzIwNzAwMA"
    },
    "resourceType": "Medication"
  },
  "search": {
    "mode": "include"
  }
},
{

```

```

"fullUrl": "https://FQDN/ext/v1/Medication/75933b54-db50-46eb-9c33-6b4cb299834d",
"resource": {
  "code": {
    "coding": [
      {
        "code": "55555444422",
        "display": "CITALOPRAM 20MG TABLETS",
        "system": "http://hl7.org/fhir/sid/ndc"
      },
      {
        "code": "C38046",
        "display": "Unspecified",
        "system": "http://www.dea.gov/drug-scheduling"
      }
    ]
  },
  "id": "75933b54-db50-46eb-9c33-6b4cb299834d",
  "identifier": [
    {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000112204"
    }
  ],
  "meta": {
    "lastUpdated": "2025-02-26T21:29:30.537207+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-medication|4.1.0"
    ],
    "versionId": "MTc0MDYwNTM3MDUZnZlwnZAwMA"
  },
  "resourceType": "Medication"
},
"search": {
  "mode": "include"
}
},
{
  "fullUrl": "https://FQDN/ext/v1/Organization/f1658aa4-33ca-47b4-a1ca-10e146777d96",
  "resource": {
    "active": true,
    "address": [
      {
        "city": "DERBY",
        "line": [
          "745 N CHICKADEE LN",
          "Suite 220"
        ],
        "postalCode": "72944",
        "state": "AR"
      }
    ],
    "id": "f1658aa4-33ca-47b4-a1ca-10e146777d96",
    "identifier": [
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000112204"
      },
      {
        "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",

```

```

      "value": "2420120"
    },
    {
      "system": "http://hl7.org/fhir/sid/us-npi",
      "value": "1053557801"
    }
  ],
  "meta": {
    "lastUpdated": "2025-02-26T21:29:30.537207+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-organization|4.1.0"
    ],
    "versionId": "MTc0MDYwNTM3MDUzNzIwNzAwMA"
  },
  "name": "Safeway AT16 Part 1",
  "resourceType": "Organization",
  "telecom": [
    {
      "system": "phone",
      "value": "6825315059"
    }
  ]
},
"search": {
  "mode": "include"
}
},
{
  "fullUrl": "https://FQDN/ext/v1/MedicationRequest/e4b356f0-7b9c-43c8-925c-2e26d705c06f",
  "resource": {
    "authoredOn": "2024-04-14T23:00:00+00:00",
    "dispenseRequest": {
      "expectedSupplyDuration": {
        "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply",
        "value": 7
      },
      "numberOfRepeatsAllowed": 8
    },
    "id": "e4b356f0-7b9c-43c8-925c-2e26d705c06f",
    "identifier": [
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000112204"
      },
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/prescription-number",
        "value": "1635568827"
      }
    ],
    "intent": "order",
    "medicationReference": {
      "reference": "Medication/57ad0e36-4ad8-49cb-8323-efe4f39aed35"
    },
    "meta": {
      "lastUpdated": "2025-02-26T21:29:30.537207+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-medicationrequest|4.1.0"
      ],
      "versionId": "MTc0MDYwNTM3MDUzNzIwNzAwMA"
    }
  }
}

```

```

    },
    "requester": {
      "reference": "Practitioner/b094ba24-d185-4f53-99e3-bd6e184028f8"
    },
    },
    "resourceType": "MedicationRequest",
    "status": "active",
    "subject": {
      "reference": "Patient/93564e09-490a-47ff-aaa7-2cf9626caa36"
    }
  },
  },
  "search": {
    "mode": "include"
  }
},
{
  "fullUrl": "https://FQDN/ext/v1/MedicationRequest/9842f3a0-82f7-4b45-94ea-bb165ec8063f",
  "resource": {
    "authoredOn": "2025-01-28T23:00:00+00:00",
    "dispenseRequest": {
      "expectedSupplyDuration": {
        "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply",
        "value": 7
      },
    },
    "numberOfRepeatsAllowed": 8
  },
  },
  "id": "9842f3a0-82f7-4b45-94ea-bb165ec8063f",
  "identifier": [
    {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000112204"
    },
    {
      "system": "http://fhirdocs.surescripts.net/identifiers/prescription-number",
      "value": "-1202581987--86222575"
    }
  ],
  "intent": "order",
  "medicationReference": {
    "reference": "Medication/75933b54-db50-46eb-9c33-6b4cb299834d"
  },
  "meta": {
    "lastUpdated": "2025-02-26T21:29:30.537207+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-medicationrequest|4.1.0"
    ],
    "versionId": "MTc0MDYwNTM3MDUzNzIwNzAwMA"
  },
  },
  "requester": {
    "reference": "Practitioner/b094ba24-d185-4f53-99e3-bd6e184028f8"
  },
  },
  "resourceType": "MedicationRequest",
  "status": "active",
  "subject": {
    "reference": "Patient/93564e09-490a-47ff-aaa7-2cf9626caa36"
  }
},
  },
  "search": {
    "mode": "include"
  }
}

```

```

},
{
  "fullUrl": "https://FQDN/ext/v1/Practitioner/b094ba24-d185-4f53-99e3-bd6e184028f8",
  "resource": {
    "address": [
      {
        "city": "Sacramento",
        "line": [
          "2801 Arden Way"
        ],
        "postalCode": "95825",
        "state": "CA"
      }
    ],
    "id": "b094ba24-d185-4f53-99e3-bd6e184028f8",
    "identifier": [
      {
        "system": "http://hl7.org/fhir/sid/us-npi",
        "value": "2059103723"
      },
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000112204"
      },
      {
        "system": "https://www.hl7.org/fhir/license.html",
        "value": "NJ998745988"
      }
    ],
    "meta": {
      "lastUpdated": "2025-02-26T21:29:30.537207+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-practitioner|4.1.0"
      ],
      "versionId": "MTc0MDYwNTM3MDUzNzIwNzAwMA"
    },
    "name": [
      {
        "family": "Murphy",
        "given": [
          "HPDProvider"
        ]
      }
    ],
    "resourceType": "Practitioner",
    "telecom": [
      {
        "system": "phone",
        "value": "6122765459"
      },
      {
        "system": "fax",
        "value": "6247166273"
      }
    ]
  },
  "search": {
    "mode": "include"
  }
}

```

```

    }
  ],
  "link": [
    {
      "relation": "search",
      "url": "https://FQDN/ext/v1/Communication/?_count=1&_include=Communication%3Abased-on&_include%3Aiterate=Communication%3Asubject",
    },
    {
      "relation": "next",
      "url": "https://FQDN/ext/v1/Communication/?_count=1&_include=Communication%3Abased-on&_include%3Aiterate=Communication%3Asubject",
    },
    {
      "relation": "first",
      "url": "https://FQDN/ext/v1/Communication/?_count=1&_include=Communication%3Abased-on&_include%3Aiterate=Communication%3Asubject",
    },
    {
      "relation": "self",
      "url": "https://FQDN/ext/v1/Communication/?_count=1&_include=Communication%3Abased-on&_include%3Aiterate=Communication%3Asubject",
    }
  ]
}

```

Bundle and Links

This example uses the Hypermedia as the Engine of Application State (HATEOAS) standard. The following code items are defined:

- **ResourceType** – Expect a single bundle for each request.
- **Id** – The bundle.id is a unique message id. It is used for looking up API request/response details in Message Searches during customer support.
- **Type** – Type of FHIR request that was made. This will always be the notifications search set.
- **Total** – Total number of medications dispensed in the response.
- **Link** – Link to access additional data. This is the HATEOAS model providing links to continue through all of the data.
- **Relation** – Relation indicates any of the following link types:
 - **Self**: Link sent to customer that produced the results they are consuming.
 - **First**: First page of data.
 - **Note**: The **Next** link is not visible when the last page of data is returned in the bundle.
 - **Search**: Refers to a resource that can be used to search through the link's context and related resources.
- **URL** – Link needed to follow in order to retrieve the data described by the relation. All parameters are filled out, but the required headers and request URL will need to be included.

Bundle and Links

```

"entry": [
  "link": [
    {
      "relation": "search",
      "url": "https://FQDN/ext/v1/Communication/?_count=50&_include=Communication%3Abased-on&_include%3Aiterate=MedicationRe
    },
    {
      "relation": "first",
      "url": "https://FQDN/ext/v1/Communication/?_count=50&_include=Communication%3Abased-on&_include%3Aiterate=MedicationRe
    },
    {
      "relation": "self",
      "url": "https://FQDN/ext/v1/Communication/?_count=50&_include=Communication%3Abased-on&_include%3Aiterate=MedicationRe
    }
  ],
  "id": "ee5a7c37-34df-46d8-80e9-3e3080aa6cc9",
  "resourceType": "Bundle",
  "total": 5,
  "type": "searchset"
}

```

Patient Resource

Patient Resource

```
{
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Patient/0279d85e-2069-438d-892d-860429bed218",
  "resource": {
    "resourceType": "Patient",
    "id": "0279d85e-2069-438d-892d-860429bed218",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    }, {
      "system": "2.16.840.1.113883.3.2054.2.3.1",
      "value": "68958f7d4e95-4c75-ae82-104fb84519a6"
    } ],
    "active": true,
    "name": [ {
      "family": "Devereaux",
      "given": [ "Margaret Adelia" ]
    } ],
    "gender": "female",
    "birthDate": "1997-11-01",
    "address": [ {
      "line": [ "27-B Heald St" ],
      "city": "Pepperell",
      "state": "MA",
      "postalCode": "01463"
    } ]
  },
  "search": {
    "mode": "include"
  }
},
```

Organization Resource

Organization Resource

```
{
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Organization/f282530d-a482-4460-ba32-5a15922c3da7",
  "resource": {
    "resourceType": "Organization",
    "id": "f282530d-a482-4460-ba32-5a15922c3da7",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T000000000021931"
    }, {
      "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",
      "value": "4222154"
    }, {
      "system": "http://hl7.org/fhir/sid/us-dea",
      "value": "RB7542257"
    }, {
      "system": "http://hl7.org/fhir/sid/us-npi",
      "value": "1235468844"
    }, {
      "system": "http://fhirdocs.surescripts.net/identifiers/organization-type",
      "value": "Pharmacy"
    } ],
    "active": true,
    "name": "Brooklyn @ Gates Pharmacy",
    "telecom": [ {
      "system": "phone",
      "value": "3474251221"
    } ],
    "address": [ {
      "line": [ "92 Gates Ave" ],
      "city": "Brooklyn",
      "state": "NY",
      "postalCode": "11238"
    } ]
  },
  "search": {
    "mode": "include"
  }
},
```

Practitioner Resource

Practitioner Resource

```
{
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Practitioner/7fcd46d8-c18b-469b-bb9d-e655397d6897",
  "resource": {
    "resourceType": "Practitioner",
    "id": "7fcd46d8-c18b-469b-bb9d-e655397d6897",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T000000000021931"
    }, {
      "system": "http://hl7.org/fhir/sid/us-npi",
      "value": "2888888882"
    }, {
      "system": "http://hl7.org/fhir/sid/us-dea",
      "value": "BM3214549"
    } ],
    "name": [ {
      "family": "McTavish",
      "given": [ "Tarquin" ]
    } ],
    "telecom": [ {
      "system": "phone",
      "value": "2024441142"
    } ]
  },
  "search": {
    "mode": "include"
  }
}
```

Medication Request Resource

Medication Request Resource

```
{
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationRequest/1fddc579-29e9-498a-839a-9653c410e743",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "1fddc579-29e9-498a-839a-9653c410e743",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    },
    {
      "system": "http://fhirdocs.surescripts.net/identifiers/prescription-number",
      "value": "272537260"
    },
    {
      "system": "http://fhirdocs.surescripts.net/identifiers/electronic_rx_ref_number",
      "value": "9123456_x_444445"
    },
    {
      "system": "http://fhirdocs.surescripts.net/identifiers/electronic_order_number",
      "value": "3953241"
    }
  ],
    "status": "completed",
    "intent": "order",
    "medicationReference": {
      "reference": "Medication/70601514-b394-4568-892d-941b2aa715f4"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authoredOn": "2025-10-07T23:00:00+00:00",
    "requester": {
      "reference": "Practitioner/7fcd46d8-c18b-469b-bb9d-e655397d6897"
    },
    "dispenseRequest": {
      "numberOfRepeatsAllowed": 0,
      "expectedSupplyDuration": {
        "value": 15,
        "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply"
      }
    }
  },
  "search": {
    "mode": "include"
  }
},
```

Medication Dispense Resource

Medication Dispense Resource

```

"fullUrl": "http://FQDN/ext/v1/MedicationDispense/b53784bc-9c0f-4c24-8c74-eb094aa66b38",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "b53784bc-9c0f-4c24-8c74-eb094aa66b38",
    "meta": {
      "versionId": "MTc2NjAzNzQ4MjQyNzQ2NDAwMA",
      "lastUpdated": "2025-12-18T05:58:02.427464+00:00"
    },
    "extension": [
      {
        "url": "http://fhirdocs.surescripts.net/extension/refills-remaining",
        "valueString": "2"
      }
    ],
    "identifier": [
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000111321"
      }
    ],
    "status": "completed",
    "medicationReference": {
      "reference": "Medication/1d037f3a-38f2-4196-845c-debfc7375c02"
    },
    "subject": {
      "reference": "Patient/d998034f-3604-4e47-93d1-f60fec14cf2a"
    },
    "performer": [
      {
        "actor": {
          "reference": "Organization/ef6fb6a8-9125-4ef3-bf9e-97e86db3e13b"
        }
      }
    ],
    "authorizingPrescription": [
      {
        "reference": "MedicationRequest/1eab5712-85e4-42d3-9fa1-715a07046c00"
      }
    ],
    "type": {
      "coding": [
        {
          "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
          "code": "RF",
          "display": "Refill 02"
        },
        {
          "system": "http://fhirdocs.surescripts.net/coding/partial-fill-type",
          "code": "RFP",
          "display": "Refill - Part Fill 01"
        }
      ]
    },
    "quantity": {
      "value": 100.0,
      "unit": "C48155"
    }
  }

```

```
    },
    "daysSupply": {
      "value": 7,
      "unit": "Day",
      "system": "http://unitsofmeasure.org",
      "code": "d"
    },
    "whenPrepared": "2025-12-07T23:00:00+00:00",
    "whenHandedOver": "2025-12-07T23:00:00+00:00",
    "dosageInstruction": [
      {
        "sequence": 1,
        "text": "TAKE 1 TABLET"
      }
    ]
  },
  "search": {
    "mode": "include"
  }
}
```

Medication Resource

Medication Resource

```
{
  "fullUrl": "https://FQDN/ext/v1/Medication/ b9969cb8-8740-4657-85d1-afb41e7f7509",
  "resource": {
    {
      "code": {
        "coding": [
          {
            "code": "68180051403",
            "display": "LISINOPRIL 10 MG TABLET",
            "system": "http://hl7.org/fhir/sid/ndc"
          },
          {
            "code": "C38046",
            "display": "Unspecified",
            "system": "http://www.dea.gov/drug-scheduling"
          }
        ]
      },
      "id": "b9969cb8-8740-4657-85d1-afb41e7f7509",
      "identifier": [
        {
          "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
          "value": "T00000000111321"
        }
      ],
      "meta": {
        "lastUpdated": "2025-02-16T19:12:38.790907+00:00",
        "profile": [
          "http://hl7.org/fhir/us/core/StructureDefinition/us-core-medication|4.1.0"
        ],
        "versionId": "MTczOTczMzE1ODc5MDkwNzAwMA"
      },
      "resourceType": "Medication"
    }
  },
}
```

Condition Resource

Condition Resource

```
{
  "fullUrl": "https://FQDN/ext/v1/Condition/095cc686-8f3f-4af8-b8c9-344e3429d992",
  "resource": {
    "category": [
      {
        "coding": [
          {
            "code": "Primary",
            "system": "http://fhirdocs.surescripts.net/coding/diagnosis-category"
          }
        ],
        "text": "type of diagnosis"
      }
    ],
    "code": {
      "coding": [
        {
          "code": "CM65748392",
          "system": "http://fhirdocs.surescripts.net/coding/other-diagnostic-coding-system"
        }
      ],
      "text": "Diagnosis"
    },
    "id": "095cc686-8f3f-4af8-b8c9-344e3429d992",
    "identifier": [
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000111321"
      }
    ],
    "meta": {
      "lastUpdated": "2025-02-26T15:05:29.040981+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition|4.1.0"
      ],
      "versionId": "MTc0MDU4MjMyOTA0MDk4MTAwMA"
    },
    "resourceType": "Condition",
    "subject": {
      "reference": "Patient/76fcede4-e4de-46d9-a831-67b2a475a667"
    }
  }
},
```

Communication Resource

The following examples support the Communication Resource for a panel or prescription notification based on a single or multiple alert

Communication Resource

```
{
  "fullUrl": "http://FQDN/ext/v1/Communication/563b30e4-1eb6-4385-b9a0-209d262221d4",
  "resource": {
    "resourceType": "Communication",
    "id": "563b30e4-1eb6-4385-b9a0-209d262221d4",
    "meta": {
      "versionId": "MTc2NjAzNzUxNDI4NjkwNTAwMA",
      "lastUpdated": "2025-12-18T05:58:34.286905+00:00",
      "profile": [
        "http://hl7.org/fhir/R4/communication"
      ]
    },
    "extension": [
      {
        "url": "http://fhirdocs.surescripts.net/coding/patient-notification-types",
        "valueCoding": {
          "id": "1b1d5843-0cdc-4788-b309-9822c7da665a",
          "code": "RefillNotPickedUp"
        }
      },
      {
        "url": "http://fhirdocs.surescripts.net/coding/sender-id",
        "valueCode": "T0000000011321"
      },
      {
        "url": "http://fhirdocs.surescripts.net/coding/notification-generated-time",
        "valueDateTime": "2025-12-18T05:58:18+00:00"
      }
    ],
    "identifier": [
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T0000000011321"
      },
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/alert-population-id",
        "value": "CurrentHealthPlanPatients"
      }
    ],
    "basedOn": [
      {
        "reference": "MedicationDispense/d9e6cb8d-7d4b-4994-a37d-28a668bbb198"
      }
    ],
    "status": "completed",
    "category": [
      {
        "coding": [
          {
            "system": "http://hl7.org/fhir/communication-category",
            "code": "notification",
            "display": "Notification"
          }
        ]
      }
    ]
  },
}
```

Prescription Notification Alerts

This section provides the following examples:

Single Alert	Multiple Alerts Combined
<u>Refill</u>	<u>Refill, NoRefillsRemaining, ControlledSubstance</u>
<u>RefillNotPickedUp</u>	<u>NewPrescriber, ControlledSubstance</u>
<u>FirstFillNotPickedUp</u>	

Single Alert (Refill)

Scenario: The patient received a **Refill** alert on **2025-03-21** for **LISINOPRIL 10 MG TABLET**. The prescription was originally authored on **2025-02-11** with **10 repeats allowed**, and **Refill 01 (RF)** for a **30-day supply** was picked up on **2025-03-11**.

The refill pickup date (**2025-03-11**) reflects the patient obtaining their next 30-day supply as expected based on the refill schedule.

Single Alert (Refill)

```
{
  "fullUrl": "https://FQDN/ext/v1/Communication/7d759844-b8a8-4817-9e0b-0024773b1468",
  "resource": {
    "resourceType": "Communication",
    "id": "7d759844-b8a8-4817-9e0b-0024773b1468",
    "meta": {
      "versionId": "MTc0MTc5NjcwNjg1NTA10TAwMA",
      "lastUpdated": "2025-03-12T16:25:06.855059+00:00",
      "profile": [ "https://hl7.org/fhir/R4/communication" ]
    },
    "extension": [ {
      "url": "https://fhirdocs.surescripts.net/coding/patient-notification-types",
      "valueCode": "Refill1"
    }, {
      "url": "https://fhirdocs.surescripts.net/coding/notification-generated-time",
      "valueDateTime": "2025-03-12T16:24:48+00:00"
    } ],
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    }, {
      "system": "https://fhirdocs.surescripts.net/identifiers/alert-population-id",
      "value": "PATIENTPOPID~"
    } ],
    "basedOn": [ {
      "reference": "MedicationDispense/72522b4d-732a-444d-8893-26faa28f52b0"
    } ],
    "status": "completed",
    "category": [ {
      "coding": [ {
        "system": "https://hl7.org/fhir/communication-category",
        "code": "notification",
        "display": "Notification"
      } ]
    } ],
    "subject": {
      "reference": "Patient/fb4633e3-a23a-4a02-aecd-40c060797a13"
    },
    "received": "2025-03-12T16:25:06+00:00"
  },
  "search": {
    "mode": "match"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/MedicationDispense/72522b4d-732a-444d-8893-26faa28f52b0",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "72522b4d-732a-444d-8893-26faa28f52b0",
    "meta": {
      "versionId": "MTc0MTc5NjcwNjg1NTA10TAwMA",
      "lastUpdated": "2025-03-12T16:25:06.855059+00:00"
    },
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    } ],
  },
}
```

```

    "status": "completed",
    "medicationReference": {
      "reference": "Medication/b1639bd3-56b9-4c1b-894c-8b7e41a252eb"
    },
    "subject": {
      "reference": "Patient/fb4633e3-a23a-4a02-aecd-40c060797a13"
    },
    "performer": [ {
      "actor": {
        "reference": "Organization/5c914090-7286-4982-8b79-19b49385e4e5"
      }
    } ],
    "authorizingPrescription": [ {
      "reference": "MedicationRequest/794fdf75-f44a-4021-9c4e-6ab50a3b28ab"
    } ],
    "type": {
      "coding": [ {
        "system": "https://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
        "code": "RF",
        "display": "Refill 01"
      } ]
    },
    "quantity": {
      "value": 39829.0,
      "unit": "C48155"
    },
    "daysSupply": {
      "value": 30,
      "unit": "Day",
      "system": "https://www.hl7.org/fhir/measure.html",
      "code": "d"
    },
    "whenPrepared": "2025-03-11T23:00:00+00:00",
    "whenHandedOver": "2025-03-11T23:00:00+00:00",
    "dosageInstruction": [ {
      "sequence": 1,
      "text": "Take pill once per day by mouth"
    } ]
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/Patient/fb4633e3-a23a-4a02-aecd-40c060797a13",
  "resource": {
    "resourceType": "Patient",
    "id": "fb4633e3-a23a-4a02-aecd-40c060797a13",
    "meta": {
      "versionId": "MTc0MTc5NjcwNjg1NTA10TAwMA",
      "lastUpdated": "2025-03-12T16:25:06.855059+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-patient|4.1.0" ]
    },
    "identifier": [ {
      "system": "2.16.840.1.113883.3.2054.2.3.1",
      "value": "f1ec8760e71948cbad18a3312b3d7713"
    } ],
    {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    }
  ]
},

```

```

    "active": true,
    "name": [ {
      "family": "Flynn",
      "given": [ "Kayla" ]
    } ],
    "gender": "female",
    "birthDate": "1992-02-28",
    "address": [ {
      "postalCode": "72944"
    } ]
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/Organization/5c914090-7286-4982-8b79-19b49385e4e5",
  "resource": {
    "resourceType": "Organization",
    "id": "5c914090-7286-4982-8b79-19b49385e4e5",
    "meta": {
      "versionId": "MTc0MTc5NjcwNjg1NTA10TAwMA",
      "lastUpdated": "2025-03-12T16:25:06.855059+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-organization|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    }, {
      "system": "https://fhirdocs.surescripts.net/identifiers/organization-type",
      "value": "P2"
    }, {
      "system": "https://hl7.org/fhir/sid/us-npi",
      "value": "1851306070"
    }, {
      "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",
      "value": "7535703"
    } ],
    "active": true,
    "name": "ROBERT & BILL'S DISCOUNT DRUGS",
    "address": [ {
      "line": [ "745 N CHICKADEE LN", "Suite 220" ],
      "city": "DERBY",
      "state": "AR",
      "postalCode": "72944"
    } ]
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/MedicationRequest/794fdf75-f44a-4021-9c4e-6ab50a3b28ab",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "794fdf75-f44a-4021-9c4e-6ab50a3b28ab",
    "meta": {
      "versionId": "MTc0MTc5NjcwNjg1NTA10TAwMA",
      "lastUpdated": "2025-03-12T16:25:06.855059+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-medicationrequest|4.1.0" ]
    },

```

```

"identifier": [ {
  "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
  "value": "T00000000111321"
}, {
  "system": "https://fhirdocs.surescripts.net/identifiers/prescription-number",
  "value": "855377485"
}, {
  "system": "https://fhirdocs.surescripts.net/identifiers/electronic_rx_ref_number",
  "value": "00000000000000000000000016876942402460"
}, {
  "system": "https://fhirdocs.surescripts.net/identifiers/electronic_order_number",
  "value": "R1C113elec_pres_order_no"
} ],
"status": "active",
"intent": "order",
"medicationReference": {
  "reference": "Medication/b1639bd3-56b9-4c1b-894c-8b7e41a252eb"
},
"subject": {
  "reference": "Patient/fb4633e3-a23a-4a02-aecd-40c060797a13"
},
"authoredOn": "2025-02-11T23:00:00+00:00",
"requester": {
  "reference": "Practitioner/3814b72a-dc34-4438-9840-bbe4080d6595"
},
"reasonReference": [ {
  "reference": "Condition/de874e4e-fbbc-458b-ad3e-29eebc618bc9"
} ],
"dispenseRequest": {
  "numberOfRepeatsAllowed": 10
}
},
"search": {
  "mode": "include"
}
}, {
  "fullUrl": "https://FQDN/ext/v1/Medication/b1639bd3-56b9-4c1b-894c-8b7e41a252eb",
  "resource": {
    "resourceType": "Medication",
    "id": "b1639bd3-56b9-4c1b-894c-8b7e41a252eb",
    "meta": {
      "versionId": "MTc0MTc5NjcwNjg1NTA10TAwMA",
      "lastUpdated": "2025-03-12T16:25:06.855059+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-medication|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    } ],
    "code": {
      "coding": [ {
        "system": "https://hl7.org/fhir/sid/ndc",
        "code": "68180051403",
        "display": "LISINOPRIL 10 MG TABLET"
      }, {
        "system": "https://www.dea.gov/drug-scheduling",
        "code": "C38046",
        "display": "Unspecified"
      } ]
    }
  }
}

```

```

    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/Practitioner/3814b72a-dc34-4438-9840-bbe4080d6595",
  "resource": {
    "resourceType": "Practitioner",
    "id": "3814b72a-dc34-4438-9840-bbe4080d6595",
    "meta": {
      "versionId": "MTc0MTc5NjcwNjg1NTA1OTAwMA",
      "lastUpdated": "2025-03-12T16:25:06.855059+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-practitioner|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://hl7.org/fhir/sid/us-npi",
      "value": "1922006063"
    }, {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    } ],
    "name": [ {
      "family": "ARORA",
      "given": [ "RAVINDER" ]
    } ],
    "telecom": [ {
      "system": "phone",
      "value": "4017237670"
    } ],
    "address": [ {
      "line": [ "1057 Mineral Spring Ave" ],
      "city": "Derby",
      "state": "AR",
      "postalCode": "72944"
    } ]
  },
  "search": {
    "mode": "include"
  }
}

```

Single Alert (RefillNotPickedUp)

Scenario: The patient received a **RefillNotPickedUp** alert on **2025-03-13** for **LISINOPRIL 10 MG TABLET**. The prescription was originally authored on **2025-02-08** with **10 repeats allowed**, and **Refill 01 (RF)** for a **30-day supply** was prepared on **2025-03-10**, which was the expected pickup date.

The expected pickup date (**2025-03-10**) is calculated by adding the **30-day supply** and a **3-day buffer** to the original authored date (**2025-02-08**).

Single Alert (RefillNotPickedUp)

```
{
  "fullUrl": "https://FQDN/ext/v1/Communication/c4f2da29-7343-40eb-9560-666d66f25a72",
  "resource": {
    "resourceType": "Communication",
    "id": "c4f2da29-7343-40eb-9560-666d66f25a72",
    "meta": {
      "versionId": "MTc0MTg4MTAwMTA4NjkzODAwMA",
      "lastUpdated": "2025-03-13T15:50:01.086938+00:00",
      "profile": [ "https://hl7.org/fhir/R4/communication" ]
    },
    "extension": [ {
      "url": "https://fhirdocs.surescripts.net/coding/patient-notification-types",
      "valueCode": "RefillNotPickedUp"
    }, {
      "url": "https://fhirdocs.surescripts.net/coding/notification-generated-time",
      "valueDateTime": "2025-03-13T15:50:00+00:00"
    } ],
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T0000000011321"
    }, {
      "system": "https://fhirdocs.surescripts.net/identifiers/alert-population-id",
      "value": "High Risk"
    } ],
    "basedOn": [ {
      "reference": "MedicationDispense/42ed5b07-23d8-450a-8299-7a2583ac7a0b"
    } ],
    "status": "completed",
    "category": [ {
      "coding": [ {
        "system": "https://hl7.org/fhir/communication-category",
        "code": "notification",
        "display": "Notification"
      } ]
    } ],
    "subject": {
      "reference": "Patient/b4038c98-b63e-417b-b027-14b19d0e0662"
    },
    "received": "2025-03-13T15:50:00+00:00"
  },
  "search": {
    "mode": "match"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/MedicationDispense/42ed5b07-23d8-450a-8299-7a2583ac7a0b",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "42ed5b07-23d8-450a-8299-7a2583ac7a0b",
    "meta": {
      "versionId": "MTc0MTg4MTAwMTA4NjkzODAwMA",
      "lastUpdated": "2025-03-13T15:50:01.086938+00:00"
    },
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T0000000011321"
    } ],
  },
}
```

```

    "status": "completed",
    "medicationReference": {
      "reference": "Medication/e8001ebc-3d11-4b2a-8e46-6473240c4c6e"
    },
    "subject": {
      "reference": "Patient/b4038c98-b63e-417b-b027-14b19d0e0662"
    },
    "performer": [ {
      "actor": {
        "reference": "Organization/b3415f97-74f7-4e78-9328-0b54da2c9d58"
      }
    } ],
    "authorizingPrescription": [ {
      "reference": "MedicationRequest/bbe13b69-6c09-4692-8b16-cc5477f4deee"
    } ],
    "type": {
      "coding": [ {
        "system": "https://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
        "code": "RF",
        "display": "Refill 01"
      } ]
    },
    "quantity": {
      "value": 30.0,
      "unit": "C48155"
    },
    "daysSupply": {
      "value": 30,
      "unit": "Day",
      "system": "https://www.hl7.org/fhir/measure.html",
      "code": "d"
    },
    "whenPrepared": "2025-03-10T23:00:00+00:00",
    "dosageInstruction": [ {
      "sequence": 1,
      "text": "Take one tablet per day by mouth"
    } ]
  }, {
    "search": {
      "mode": "include"
    }
  }, {
    "fullUrl": "https://FQDN/ext/v1/Patient/b4038c98-b63e-417b-b027-14b19d0e0662",
    "resource": {
      "resourceType": "Patient",
      "id": "b4038c98-b63e-417b-b027-14b19d0e0662",
      "meta": {
        "versionId": "MTc0MTg4MTAwMTA4NjkzODAwMA",
        "lastUpdated": "2025-03-13T15:50:01.086938+00:00",
        "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-patient|4.1.0" ]
      },
      "identifier": [ {
        "system": "https://terminology.hl7.org/CodeSystem/v2-0203",
        "value": "65Bk4qcyB19HNovB5tf0Q1aJB1Cb90YkAw0"
      } ], {
        "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000111321"
      } ],
      "active": true,

```

```

    "name": [ {
      "family": "Donaldson",
      "given": [ "Max" ]
    } ],
    "gender": "male",
    "birthDate": "2017-04-09",
    "address": [ {
      "line": [ "6419 485th Road", "Apt. 819" ],
      "city": "DERBY",
      "state": "AR",
      "postalCode": "72944"
    } ]
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/Organization/b3415f97-74f7-4e78-9328-0b54da2c9d58",
  "resource": {
    "resourceType": "Organization",
    "id": "b3415f97-74f7-4e78-9328-0b54da2c9d58",
    "meta": {
      "versionId": "MTc0MTg4MTAwMTA4NjkzODAwMA",
      "lastUpdated": "2025-03-13T15:50:01.086938+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-organization|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    }, {
      "system": "https://fhirdocs.surescripts.net/identifiers/organization-type",
      "value": "P2"
    }, {
      "system": "https://hl7.org/fhir/sid/us-npi",
      "value": "1851306070"
    }, {
      "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",
      "value": "7535703"
    } ],
    "active": true,
    "name": "ROBERT & BILL'S DISCOUNT DRUGS",
    "address": [ {
      "line": [ "745 N CHICKADEE LN", "Suite 220" ],
      "city": "DERBY",
      "state": "AR",
      "postalCode": "72944"
    } ]
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/MedicationRequest/bbe13b69-6c09-4692-8b16-cc5477f4deee",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "bbe13b69-6c09-4692-8b16-cc5477f4deee",
    "meta": {
      "versionId": "MTc0MTg4MTAwMTA4NjkzODAwMA",
      "lastUpdated": "2025-03-13T15:50:01.086938+00:00",

```

```

    "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-medicationrequest|4.1.0" ]
  },
  "identifier": [ {
    "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
    "value": "T00000000111321"
  }, {
    "system": "https://fhirdocs.surescripts.net/identifiers/prescription-number",
    "value": "868673846"
  }, {
    "system": "https://fhirdocs.surescripts.net/identifiers/electronic_rx_ref_number",
    "value": "00000000000000000000000052112862302552"
  }, {
    "system": "https://fhirdocs.surescripts.net/identifiers/electronic_order_number",
    "value": "R1C113elec_pres_order_no"
  } ],
  "status": "active",
  "intent": "order",
  "medicationReference": {
    "reference": "Medication/e8001ebc-3d11-4b2a-8e46-6473240c4c6e"
  },
  "subject": {
    "reference": "Patient/b4038c98-b63e-417b-b027-14b19d0e0662"
  },
  "authoredOn": "2025-02-08T11:00:00+00:00",
  "requester": {
    "reference": "Practitioner/5cfa1702-f79a-4dba-975c-6ab33c773842"
  },
  "reasonReference": [ {
    "reference": "Condition/c2286c83-d1fa-49a6-98b8-36f81d2bdc1e"
  } ],
  "dispenseRequest": {
    "numberOfRepeatsAllowed": 10
  }
},
{
  "search": {
    "mode": "include"
  }
},
{
  "fullUrl": "https://FQDN/ext/v1/Medication/e8001ebc-3d11-4b2a-8e46-6473240c4c6e",
  "resource": {
    "resourceType": "Medication",
    "id": "e8001ebc-3d11-4b2a-8e46-6473240c4c6e",
    "meta": {
      "versionId": "MTc0MTg4MTAwMTA4NjkzODAwMA",
      "lastUpdated": "2025-03-13T15:50:01.086938+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-medication|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    } ],
    "code": {
      "coding": [ {
        "system": "https://hl7.org/fhir/sid/ndc",
        "code": "68180051403",
        "display": "LISINOPRIL 10 MG TABLET"
      }, {
        "system": "https://www.dea.gov/drug-scheduling",
        "code": "C38046",

```

```

        "display": "Unspecified"
      } ]
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/Practitioner/5cfa1702-f79a-4dba-975c-6ab33c773842",
  "resource": {
    "resourceType": "Practitioner",
    "id": "5cfa1702-f79a-4dba-975c-6ab33c773842",
    "meta": {
      "versionId": "MTc0MTg4MTAwMTA4NjkzODAwMA",
      "lastUpdated": "2025-03-13T15:50:01.086938+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-practitioner|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://hl7.org/fhir/sid/us-npi",
      "value": "1624519371"
    }, {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    } ],
    "name": [ {
      "family": "Williams",
      "given": [ "Stevens" ]
    } ],
    "telecom": [ {
      "system": "phone",
      "value": "6122765459"
    } ],
    "address": [ {
      "line": [ "2000 Royal Oaks Dr" ],
      "city": "DERBY",
      "state": "AR",
      "postalCode": "72944"
    } ]
  },
  "search": {
    "mode": "include"
  }
}

```

Single Alert (FirstFillNotPickedUp)

Scenario: The patient, **Kayla Flynn**, received a **FirstFillNotPickedUp** alert on **2025-12-29** for the prescription **LISINOPRIL 10 MG TABLET**, originally authored on **2025-12-26** by **Dr. Ravinder Arora**. The NewRx was expected to be picked up within three days of the authored date.

Because no pickup occurred by **2025-12-29** (2025-12-26 + 3-day buffer), the alert was generated.

Single Alert (FirstFillNotPickedUp)

```
{
  "resourceType": "Bundle",
  "id": "3cc3f1bf-2a90-48f3-b6d9-1a9cb8d6c2de",
  "type": "searchset",
  "total": 1,
  "link": [
    {
      "relation": "search",
      "url": "http://FQDN/ext/v1/Communication/?_count=15&_id=68d5fb92-bd49-4954-aa63-1f4b5b075d6b&_include=Communication%3A",
    },
    {
      "relation": "first",
      "url": "http://FQDN/ext/v1/Communication/?_count=15&_id=68d5fb92-bd49-4954-aa63-1f4b5b075d6b&_include=Communication%3A",
    },
    {
      "relation": "self",
      "url": "http://FQDN/ext/v1/Communication/?_count=15&_id=68d5fb92-bd49-4954-aa63-1f4b5b075d6b&_include=Communication%3A",
    }
  ],
  "entry": [
    {
      "fullUrl": "http://FQDN/ext/v1/Communication/68d5fb92-bd49-4954-aa63-1f4b5b075d6b",
      "resource": {
        "resourceType": "Communication",
        "id": "68d5fb92-bd49-4954-aa63-1f4b5b075d6b",
        "meta": {
          "versionId": "MTc2NzAyMDEwNjMzODU3NjAwMA",
          "lastUpdated": "2025-12-29T14:55:06.338576+00:00",
          "profile": [
            "http://hl7.org/fhir/R4/communication"
          ]
        },
        "extension": [
          {
            "url": "http://fhirdocs.surescripts.net/coding/patient-notification-types",
            "valueCoding": {
              "id": "3e87b73f-8c9a-47e0-9512-457591b970d7",
              "code": "FirstFillNotPickedUp"
            }
          },
          {
            "url": "http://fhirdocs.surescripts.net/coding/sender-id",
            "valueCode": "T00000000111321"
          },
          {
            "url": "http://fhirdocs.surescripts.net/coding/notification-generated-time",
            "valueDateTime": "2025-12-29T14:55:06+00:00"
          }
        ],
        "identifier": [
          {
            "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
            "value": "T00000000111321"
          },
          {
            "system": "http://fhirdocs.surescripts.net/identifiers/alert-population-id",

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```

        "value": "PATIENTPOPID~"
      }
    ],
    "basedOn": [
      {
        "reference": "MedicationRequest/94c41502-0bc6-4ad5-92fe-4dc466e4ccbf"
      }
    ],
    "status": "completed",
    "category": [
      {
        "coding": [
          {
            "system": "http://hl7.org/fhir/communication-category",
            "code": "notification",
            "display": "Notification"
          }
        ]
      }
    ],
    "subject": {
      "reference": "Patient/0d01fef0-5623-4b27-8ce4-99b1a93f6150"
    },
    "received": "2025-12-29T14:55:06+00:00"
  },
  "search": {
    "mode": "match"
  }
},
{
  "fullUrl": "http://FQDN/ext/v1/MedicationRequest/94c41502-0bc6-4ad5-92fe-4dc466e4ccbf",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "94c41502-0bc6-4ad5-92fe-4dc466e4ccbf",
    "meta": {
      "versionId": "MTc2NzAyMDEwNjMzODU3NjAwMA",
      "lastUpdated": "2025-12-29T14:55:06.338576+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-medicationrequest|4.1.0"
      ]
    },
    "identifier": [
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000111321"
      }
    ],
    "status": "active",
    "intent": "order",
    "medicationReference": {
      "reference": "Medication/9449aca7-3262-455d-a5d1-084a3b54923e"
    },
    "subject": {
      "reference": "Patient/0d01fef0-5623-4b27-8ce4-99b1a93f6150"
    },
    "authoredOn": "2025-12-26T13:00:00+00:00",
    "requester": {
      "reference": "Practitioner/a8da3606-9818-4080-9bd2-04bf585c654c"
    }
  },

```

```

    "performer": {
      "reference": "Organization/b409ec8a-5833-45f0-953f-cfc7452e6140"
    }
  },
  "search": {
    "mode": "include"
  }
},
{
  "fullUrl": "http://FQDN/ext/v1/Patient/0d01fef0-5623-4b27-8ce4-99b1a93f6150",
  "resource": {
    "resourceType": "Patient",
    "id": "0d01fef0-5623-4b27-8ce4-99b1a93f6150",
    "meta": {
      "versionId": "MTC2NzAyMDEwNjMzODU3NjAwMA",
      "lastUpdated": "2025-12-29T14:55:06.338576+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-patient|4.1.0"
      ]
    },
    "identifier": [
      {
        "system": "urn:uid:T00000000111321",
        "value": "tpGW8qtqRqyN5EsUKwUau6cMBbSScGBTgrF"
      },
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000111321"
      }
    ],
    "active": true,
    "name": [
      {
        "family": "Flynn",
        "given": [
          "Kayla"
        ]
      }
    ],
    "gender": "female",
    "birthDate": "1992-02-28",
    "address": [
      {
        "line": [
          "1806 28th St"
        ],
        "city": "Fort Bend",
        "state": "NY",
        "postalCode": "72944"
      }
    ]
  },
  "search": {
    "mode": "include"
  }
},
{
  "fullUrl": "http://FQDN/ext/v1/Practitioner/a8da3606-9818-4080-9bd2-04bf585c654c",
  "resource": {

```

```

    "resourceType": "Practitioner",
    "id": "a8da3606-9818-4080-9bd2-04bf585c654c",
    "meta": {
      "versionId": "MTc2NzAyMDEwNjMzODU3NjAwMA",
      "lastUpdated": "2025-12-29T14:55:06.338576+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-practitioner|4.1.0"
      ]
    },
    "identifier": [
      {
        "system": "https://hl7.org/fhir/sid/us-npi",
        "value": "1922006063"
      },
      {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000111321"
      }
    ],
    "name": [
      {
        "family": "ARORA",
        "given": [ "RAVINDER" ]
      }
    ],
    "telecom": [ {
      "system": "phone",
      "value": "4017237670"
    } ],

    "search": {
      "mode": "include"
    }
  },
  {
    "fullUrl": "http://FQDN/ext/v1/Patient/0d01fef0-5623-4b27-8ce4-99b1a93f6150",
    "resource": {
      "resourceType": "Organization",
      "id": "0d01fef0-5623-4b27-8ce4-99b1a93f6150",
      "meta": {
        "versionId": "MTc2NzAyMDEwNjMzODU3NjAwMA",
        "lastUpdated": "2025-12-29T14:55:06.338576+00:00",
        "profile": [
          "http://hl7.org/fhir/us/core/StructureDefinition/us-core-patient|4.1.0"
        ]
      },
      "identifier": [
        {
          "system": "urn:uid:T00000000111321",
          "value": "tpGW8qtqRqyN5EsUKwUau6cMBbSScGBTgrF"
        },
        {
          "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
          "value": "T00000000111321"
        }
      ],
      "active": true,
      "name": [

```

```

        {
          "family": "Flynn",
          "given": [
            "Kayla"
          ]
        }
      ],
      "gender": "female",
      "birthDate": "1992-02-28",
      "address": [
        {
          "line": [
            "1806 28th St"
          ],
          "city": "Fort Bend",
          "state": "NY",
          "postalCode": "72944"
        }
      ]
    },
    "search": {
      "mode": "include"
    }
  },
  {
    "fullUrl": "http://FQDN/ext/v1/Medication/9449aca7-3262-455d-a5d1-084a3b54923e",
    "resource": {
      "resourceType": "Medication",
      "id": "9449aca7-3262-455d-a5d1-084a3b54923e",
      "meta": {
        "versionId": "MTc2NzAyMDEwNjMzODU3NjAwMA",
        "lastUpdated": "2025-12-29T14:55:06.338576+00:00",
        "profile": [
          "http://hl7.org/fhir/us/core/StructureDefinition/us-core-medication|4.1.0"
        ]
      },
      "identifier": [
        {
          "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
          "value": "T00000000111321"
        }
      ],
      "code": {
        "coding": [ {
          "system": "https://hl7.org/fhir/sid/ndc",
          "code": "68180051403",
          "display": "LISINOPRIL 10 MG TABLET"
        }, {
          "system": "https://www.dea.gov/drug-scheduling",
          "code": "C38046",
          "display": "Unspecified"
        } ]
      },
      "status": "active"
    },
    "search": {
      "mode": "include"
    }
  }

```

Multiple Alerts (NewRx, NewPrescriber, ControlledSubstance)

Scenario: Kayla Flynn received **ControlledSubstance**, **NewPrescriber**, and **NewRx** alerts on **2025-03-13** tied to a **First Fill** of **MORPHINE ER 30 MG**. The NewRx was authored on **2025-03-11**. Because this was a new controlled-substance prescription dispensed for the first time, and written by a prescriber who had not issued medication to her within the past four months, all three alerts were triggered.

These notifications help care teams identify newly prescribed controlled substances and monitor when a new prescriber enters the patient's medication history.

Multiple Alerts (NewRx, NewPrescriber, ControlledSubstance)

```
{
  "fullUrl": "https://FQDN/ext/v1/Communication/43d169ed-2d15-4671-9131-e754b3522707",
  "resource": {
    "resourceType": "Communication",
    "id": "43d169ed-2d15-4671-9131-e754b3522707",
    "meta": {
      "versionId": "MTc0MTg3NTcwOTY1MDgxMzAwMA",
      "lastUpdated": "2025-03-13T14:21:49.650813+00:00",
      "profile": [ "https://hl7.org/fhir/R4/communication" ]
    },
    "extension": [ {
      "url": "https://fhirdocs.surescripts.net/coding/patient-notification-types",
      "valueCode": "ControlledSubstance"
    }, {
      "url": "https://fhirdocs.surescripts.net/coding/patient-notification-types",
      "valueCode": "NewPrescriber"
    }, {
      "url": "https://fhirdocs.surescripts.net/coding/patient-notification-types",
      "valueCode": "NewRx"
    }, {
      "url": "https://fhirdocs.surescripts.net/coding/notification-generated-time",
      "valueDateTime": "2025-03-13T14:21:42+00:00"
    } ],
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    }, {
      "system": "https://fhirdocs.surescripts.net/identifiers/alert-population-id",
      "value": "PATIENTPOPID~"
    } ],
    "basedOn": [ {
      "reference": "MedicationDispense/5e2a103a-b3de-4c87-95ed-721df2c9ae6c"
    } ],
    "status": "completed",
    "category": [ {
      "coding": [ {
        "system": "https://hl7.org/fhir/communication-category",
        "code": "notification",
        "display": "Notification"
      } ]
    } ],
    "subject": {
      "reference": "Patient/a36303cc-8d98-49b1-90ee-804d91b9a6ba"
    },
    "received": "2025-03-13T14:21:49+00:00"
  },
  "search": {
    "mode": "match"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/MedicationDispense/5e2a103a-b3de-4c87-95ed-721df2c9ae6c",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "5e2a103a-b3de-4c87-95ed-721df2c9ae6c",
    "meta": {
      "versionId": "MTc0MTg3NTcwOTY1MDgxMzAwMA",

```

```

    "lastUpdated": "2025-03-13T14:21:49.650813+00:00"
  },
  "identifier": [ {
    "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
    "value": "T00000000111321"
  } ],
  "status": "completed",
  "medicationReference": {
    "reference": "Medication/4a24cc53-a4dd-4ca0-8946-aada84dd95f4"
  },
  "subject": {
    "reference": "Patient/a36303cc-8d98-49b1-90ee-804d91b9a6ba"
  },
  "performer": [ {
    "actor": {
      "reference": "Organization/a5f51a3d-dbf2-4262-aac0-f9af60699a4b"
    }
  } ],
  "authorizingPrescription": [ {
    "reference": "MedicationRequest/c91f08b9-7147-4193-9c01-13a1f828e8ab"
  } ],
  "type": {
    "coding": [ {
      "system": "https://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
      "code": "FF",
      "display": "First Fill"
    } ]
  },
  "quantity": {
    "value": 39829.0,
    "unit": "C48155"
  },
  "daysSupply": {
    "value": 31,
    "unit": "Day",
    "system": "https://www.hl7.org/fhir/measure.html",
    "code": "d"
  },
  "whenPrepared": "2025-03-11T23:00:00+00:00",
  "dosageInstruction": [ {
    "sequence": 1,
    "text": "r1c84sig_text"
  } ]
}, {
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/Patient/a36303cc-8d98-49b1-90ee-804d91b9a6ba",
  "resource": {
    "resourceType": "Patient",
    "id": "a36303cc-8d98-49b1-90ee-804d91b9a6ba",
    "meta": {
      "versionId": "MTc0MTg3NTcwOTY1MDgxMzAwMA",
      "lastUpdated": "2025-03-13T14:21:49.650813+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-patient|4.1.0" ]
    },
    "identifier": [ {
      "system": "2.16.840.1.113883.3.2054.2.3.1",

```

```

      "value": "ec8600ec831f486e9ac9f5b2388d00bd"
    }, {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    } ],
    "active": true,
    "name": [ {
      "family": "Flynn",
      "given": [ "Kayla" ]
    } ],
    "gender": "female",
    "birthDate": "1962-02-28",
    "address": [ {
      "postalCode": "10001"
    } ]
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/Organization/a5f51a3d-dbf2-4262-aac0-f9af60699a4b",
  "resource": {
    "resourceType": "Organization",
    "id": "a5f51a3d-dbf2-4262-aac0-f9af60699a4b",
    "meta": {
      "versionId": "MTc0MTg3NTcwOTY1MDgxMzAwMA",
      "lastUpdated": "2025-03-13T14:21:49.650813+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-organization|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    } ], {
      "system": "https://fhirdocs.surescripts.net/identifiers/organization-type",
      "value": "P2"
    }, {
      "system": "https://hl7.org/fhir/sid/us-npi",
      "value": "1851306070"
    }, {
      "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",
      "value": "7535703"
    } ],
    "active": true,
    "name": "ROBERT & BILL'S DISCOUNT DRUGS",
    "address": [ {
      "line": [ "745 N CHICKADEE LN", "Suite 220" ],
      "city": "DERBY",
      "state": "AR",
      "postalCode": "72944"
    } ]
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/MedicationRequest/c91f08b9-7147-4193-9c01-13a1f828e8ab",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "c91f08b9-7147-4193-9c01-13a1f828e8ab",

```

```

"meta": {
  "versionId": "MTc0MTg3NTcwOTY1MDgxMzAwMA",
  "lastUpdated": "2025-03-13T14:21:49.650813+00:00",
  "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-medicationrequest|4.1.0" ]
},
"identifier": [ {
  "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
  "value": "T00000000111321"
}, {
  "system": "https://fhirdocs.surescripts.net/identifiers/prescription-number",
  "value": "390896692"
}, {
  "system": "https://fhirdocs.surescripts.net/identifiers/electronic_rx_ref_number",
  "value": "000000000000000000000000521747146705"
}, {
  "system": "https://fhirdocs.surescripts.net/identifiers/electronic_order_number",
  "value": "R1C113elec_pres_order_no"
} ],
"status": "active",
"intent": "order",
"medicationReference": {
  "reference": "Medication/4a24cc53-a4dd-4ca0-8946-aada84dd95f4"
},
"subject": {
  "reference": "Patient/a36303cc-8d98-49b1-90ee-804d91b9a6ba"
},
"authoredOn": "2025-03-11T23:00:00+00:00",
"requester": {
  "reference": "Practitioner/bd6bcf0d-d36f-4cb7-a9a4-50be63ad441d"
},
"reasonReference": [ {
  "reference": "Condition/932dcea2-e0f1-474f-be7d-b1632b752121"
} ],
"dispenseRequest": {
  "numberOfRepeatsAllowed": 10
}
},
"search": {
  "mode": "include"
}
}, {
  "fullUrl": "https://FQDN/ext/v1/Medication/4a24cc53-a4dd-4ca0-8946-aada84dd95f4",
  "resource": {
    "resourceType": "Medication",
    "id": "4a24cc53-a4dd-4ca0-8946-aada84dd95f4",
    "meta": {
      "versionId": "MTc0MTg3NTcwOTY1MDgxMzAwMA",
      "lastUpdated": "2025-03-13T14:21:49.650813+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-medication|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    } ],
    "code": {
      "coding": [ {
        "system": "https://hl7.org/fhir/sid/ndc",
        "code": "60951065370",
        "display": "MORPHINE ER 30MG"
      } ]
    }
  }
}

```

```

    }, {
      "system": "https://www.dea.gov/drug-scheduling",
      "code": "C38046",
      "display": "Unspecified"
    } ]
  }
},
"search": {
  "mode": "include"
}
}, {
  "fullUrl": "https://FQDN/ext/v1/Practitioner/bd6bcf0d-d36f-4cb7-a9a4-50be63ad441d",
  "resource": {
    "resourceType": "Practitioner",
    "id": "bd6bcf0d-d36f-4cb7-a9a4-50be63ad441d",
    "meta": {
      "versionId": "MTc0MTg3NTcwOTY1MDgxMzAwMA",
      "lastUpdated": "2025-03-13T14:21:49.650813+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-practitioner|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://hl7.org/fhir/sid/us-npi",
      "value": "1924143211"
    } ],
    {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    } ],
    "name": [ {
      "family": "AddressLinkTest",
      "given": [ "TeamSeven" ]
    } ],
    "telecom": [ {
      "system": "phone",
      "value": "6122765459"
    } ],
    "address": [ {
      "line": [ "4185 S Robert Trail" ],
      "city": "Eagan",
      "state": "MN",
      "postalCode": "55123"
    } ]
  },
  "search": {
    "mode": "include"
  }
}

```

Multiple Alerts (Refill, ControlledSubstance)

Scenario: Kayla Flynn received **Refill** and **ControlledSubstance** alerts on **2025-03-13** for **MORPHINE ER 30 MG**, which was originally authored **30 days earlier** on **2025-02-11** with **3 refills authorized**. A **Refill 01** was prepared on **2025-03-11** with a **31-day supply**, and because the medication is a controlled substance and the refill was successfully picked up, both alerts were generated.

These notifications highlight refill activity involving controlled substances, helping organizations monitor adherence and identify potential safety risks.

Multiple Alerts (Refill, ControlledSubstance)

```
{
  "fullUrl": "https://FQDN/ext/v1/Communication/38eef49e-2ee0-497e-9821-52ec5b9053eb",
  "resource": {
    "resourceType": "Communication",
    "id": "38eef49e-2ee0-497e-9821-52ec5b9053eb",
    "meta": {
      "versionId": "MTc0MTg3NTY3NTc0MDU3MTAwMA",
      "lastUpdated": "2025-03-13T14:21:15.740571+00:00",
      "profile": [ "https://hl7.org/fhir/R4/communication" ]
    },
    "extension": [ {
      "url": "https://fhirdocs.surescripts.net/coding/patient-notification-types",
      "valueCode": "ControlledSubstance"
    }, {
      "url": "https://fhirdocs.surescripts.net/coding/patient-notification-types",
      "valueCode": "Refill"
    }, {
      "url": "https://fhirdocs.surescripts.net/coding/notification-generated-time",
      "valueDateTime": "2025-03-13T14:21:06+00:00"
    } ],
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T0000000011321"
    }, {
      "system": "https://fhirdocs.surescripts.net/identifiers/alert-population-id",
      "value": "High Risk"
    } ],
    "basedOn": [ {
      "reference": "MedicationDispense/03dd91e1-d555-4892-8a27-6fc40ed36be4"
    } ],
    "status": "completed",
    "category": [ {
      "coding": [ {
        "system": "https://hl7.org/fhir/communication-category",
        "code": "notification",
        "display": "Notification"
      } ]
    } ],
    "subject": {
      "reference": "Patient/f7c118ab-dc3f-47ce-ba70-182b1c5c0ee5"
    },
    "received": "2025-03-13T14:21:15+00:00"
  },
  "search": {
    "mode": "match"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/MedicationDispense/03dd91e1-d555-4892-8a27-6fc40ed36be4",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "03dd91e1-d555-4892-8a27-6fc40ed36be4",
    "meta": {
      "versionId": "MTc0MTg3NTY3NTc0MDU3MTAwMA",
      "lastUpdated": "2025-03-13T14:21:15.740571+00:00"
    },
    "identifier": [ {
```

```

    "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
    "value": "T00000000111321"
  } ],
  "status": "completed",
  "medicationReference": {
    "reference": "Medication/4f06b121-3356-4406-8d04-96a26fe1209e"
  },
  "subject": {
    "reference": "Patient/f7c118ab-dc3f-47ce-ba70-182b1c5c0ee5"
  },
  "performer": [ {
    "actor": {
      "reference": "Organization/7b8ccf62-e731-44cc-9819-029d41802582"
    }
  } ],
  "authorizingPrescription": [ {
    "reference": "MedicationRequest/108b1156-6643-48cd-ad24-eeca51e4ab4e"
  } ],
  "type": {
    "coding": [ {
      "system": "https://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
      "code": "RF",
      "display": "Refill 01"
    } ]
  },
  "quantity": {
    "value": 39829.0,
    "unit": "C48155"
  },
  "daysSupply": {
    "value": 31,
    "unit": "Day",
    "system": "https://www.hl7.org/fhir/measure.html",
    "code": "d"
  },
  "whenPrepared": "2025-03-11T23:00:00+00:00",
  "dosageInstruction": [ {
    "sequence": 1,
    "text": "r1c84sig_text"
  } ]
}, {
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/Patient/f7c118ab-dc3f-47ce-ba70-182b1c5c0ee5",
  "resource": {
    "resourceType": "Patient",
    "id": "f7c118ab-dc3f-47ce-ba70-182b1c5c0ee5",
    "meta": {
      "versionId": "MTc0MTg3NTY3NTc0MDU3MTAwMA",
      "lastUpdated": "2025-03-13T14:21:15.740571+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-patient|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://terminology.hl7.org/CodeSystem/v2-0203",
      "value": "918ec939f6f3408380b9b4fc66ab8653"
    } ],
    {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",

```

```

      "value": "T00000000111321"
    } ],
    "active": true,
    "name": [ {
      "family": "Flynn",
      "given": [ "Kayla" ]
    } ],
    "gender": "female",
    "birthDate": "1962-02-28",
    "address": [ {
      "postalCode": "72944"
    } ]
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/Organization/7b8ccf62-e731-44cc-9819-029d41802582",
  "resource": {
    "resourceType": "Organization",
    "id": "7b8ccf62-e731-44cc-9819-029d41802582",
    "meta": {
      "versionId": "MTc0MTg3NTY3NTc0MDU3MTAwMA",
      "lastUpdated": "2025-03-13T14:21:15.740571+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-organization|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    }, {
      "system": "https://fhirdocs.surescripts.net/identifiers/organization-type",
      "value": "P2"
    }, {
      "system": "https://hl7.org/fhir/sid/us-npi",
      "value": "1851306070"
    }, {
      "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",
      "value": "7535703"
    } ],
    "active": true,
    "name": "ROBERT & BILL'S DISCOUNT DRUGS",
    "address": [ {
      "line": [ "745 N CHICKADEE LN", "Suite 220" ],
      "city": "DERBY",
      "state": "AR",
      "postalCode": "72944"
    } ]
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/MedicationRequest/108b1156-6643-48cd-ad24-eeca51e4ab4e",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "108b1156-6643-48cd-ad24-eeca51e4ab4e",
    "meta": {
      "versionId": "MTc0MTg3NTY3NTc0MDU3MTAwMA",
      "lastUpdated": "2025-03-13T14:21:15.740571+00:00",

```

```

    "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-medicationrequest|4.1.0" ]
  },
  "identifier": [ {
    "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
    "value": "T00000000111321"
  }, {
    "system": "https://fhirdocs.surescripts.net/identifiers/prescription-number",
    "value": "225309529"
  }, {
    "system": "https://fhirdocs.surescripts.net/identifiers/electronic_rx_ref_number",
    "value": "0000000000000000000073742182928199"
  }, {
    "system": "https://fhirdocs.surescripts.net/identifiers/electronic_order_number",
    "value": "R1C113elec_pres_order_no"
  } ],
  "status": "active",
  "intent": "order",
  "medicationReference": {
    "reference": "Medication/4f06b121-3356-4406-8d04-96a26fe1209e"
  },
  "subject": {
    "reference": "Patient/f7c118ab-dc3f-47ce-ba70-182b1c5c0ee5"
  },
  "authoredOn": "2025-02-11T23:00:00+00:00",
  "requester": {
    "reference": "Practitioner/8d020c0c-1db3-479f-8c50-be0fa78f96d3"
  },
  "reasonReference": [ {
    "reference": "Condition/688e9dc7-369e-459f-b092-6f091a319040"
  } ],
  "dispenseRequest": {
    "numberOfRepeatsAllowed": 3
  }
},
{
  "search": {
    "mode": "include"
  }
},
{
  "fullUrl": "https://FQDN/ext/v1/Medication/4f06b121-3356-4406-8d04-96a26fe1209e",
  "resource": {
    "resourceType": "Medication",
    "id": "4f06b121-3356-4406-8d04-96a26fe1209e",
    "meta": {
      "versionId": "MTc0MTg3NTY3NTc0MDU3MTAwMA",
      "lastUpdated": "2025-03-13T14:21:15.740571+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-medication|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    } ],
    "code": {
      "coding": [ {
        "system": "https://hl7.org/fhir/sid/ndc",
        "code": "60951065370",
        "display": "MORPHINE ER 30MG"
      }, {
        "system": "https://www.dea.gov/drug-scheduling",
        "code": "C38046",

```

```

        "display": "Unspecified"
      } ]
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://FQDN/ext/v1/Practitioner/8d020c0c-1db3-479f-8c50-be0fa78f96d3",
  "resource": {
    "resourceType": "Practitioner",
    "id": "8d020c0c-1db3-479f-8c50-be0fa78f96d3",
    "meta": {
      "versionId": "MTc0MTg3NTY3NTc0MDU3MTAwMA",
      "lastUpdated": "2025-03-13T14:21:15.740571+00:00",
      "profile": [ "https://hl7.org/fhir/us/core/StructureDefinition/us-core-practitioner|4.1.0" ]
    },
    "identifier": [ {
      "system": "https://hl7.org/fhir/sid/us-npi",
      "value": "1932106424"
    }, {
      "system": "https://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000111321"
    } ],
    "name": [ {
      "family": "MICAN",
      "given": [ "LISA" ]
    } ],
    "telecom": [ {
      "system": "phone",
      "value": "4017260547"
    } ],
    "address": [ {
      "line": [ "150 MINERAL SPRING AVE." ],
      "city": "Derby",
      "state": "AR",
      "postalCode": "72944"
    } ]
  },
  "search": {
    "mode": "include"
  }
}

```

Panel Management Response

Panel Management Response

```
{
  "resourceType": "Bundle",
  "id": "59d08863-d483-474b-9802-7da6dfe044ee",
  "type": "searchset",
  "total": 1,
  "link": [ {
    "relation": "search",
    "url": "https://care-coordination.surescripts.net/ext/v1/Communication/?_id=512e9018-756a-4e40-8f0d-90251f2f5f62&_include=Comm
  }, {
    "relation": "first",
    "url": "https://care-coordination.surescripts.net/ext/v1/Communication/?_id=512e9018-756a-4e40-8f0d-90251f2f5f62&_include=Comm
  }, {
    "relation": "self",
    "url": "https://care-coordination.surescripts.net/ext/v1/Communication/?_id=512e9018-756a-4e40-8f0d-90251f2f5f62&_include=Comm
  } ],
  "entry": [ {
    "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Communication/512e9018-756a-4e40-8f0d-90251f2f5f62",
    "resource": {
      "resourceType": "Communication",
      "id": "512e9018-756a-4e40-8f0d-90251f2f5f62",
      "meta": {
        "versionId": "MTc2NjUxMzQ5MzQ3ODAwOTAwMA",
        "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
      },
      "extension": [ {
        "url": "http://fhirdocs.surescripts.net/extension/start-date",
        "valueString": "2024-12-23"
      }, {
        "url": "http://fhirdocs.surescripts.net/extension/end-date",
        "valueString": "2025-12-23"
      } ],
      "identifier": [ {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000021931"
      }, {
        "system": "http://fhirdocs.surescripts.net/identifiers/primary-sender-message-id",
        "value": "48100178:13529794:1766511378576"
      }, {
        "system": "http://fhirdocs.surescripts.net/identifiers/population-id",
        "value": "PanelCertPatients"
      } ],
      "basedOn": [ {
        "reference": "MedicationDispense/81562b08-f6fd-44bd-a5c3-9a3009106513"
      }, {
        "reference": "MedicationDispense/f3ed6a76-46f7-4714-ac30-1c85275a5bef"
      }, {
        "reference": "MedicationDispense/b97a0d8f-6308-4beb-863a-f031082b0725"
      }, {
        "reference": "MedicationDispense/64234232-e10d-43c6-b4d8-0548e8ae47b6"
      }, {
        "reference": "MedicationDispense/e63d3c3f-cae9-492c-8dc6-b8bbebf81227"
      }, {
        "reference": "MedicationDispense/e7650819-7d97-4070-adc6-1700f0c27e3c"
      }, {
        "reference": "MedicationDispense/012f26ef-1409-4ffe-970a-42367ad33b06"
      }, {

```

```

    "reference": "MedicationDispense/d26bd3af-d2ca-4f13-8fed-7d7bef23929f"
  }, {
    "reference": "MedicationDispense/4a35056d-64c9-447d-a482-322a779ed3d0"
  }, {
    "reference": "MedicationDispense/b1a4fa6a-834e-463b-a9b1-a4c281cc421f"
  }, {
    "reference": "MedicationDispense/cf0ad2b3-3ce2-4624-ab18-3fcbdbf20e89"
  } ],
  "status": "completed",
  "category": [ {
    "coding": [ {
      "system": "http://hl7.org/fhir/communication-category",
      "code": "panel",
      "display": "Panel"
    } ]
  } ],
  "subject": {
    "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
  },
  "received": "2025-12-23T17:36:18+00:00"
},
"search": {
  "mode": "match"
}
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationDispense/b97a0d8f-6308-4beb-863a-f031082b0725",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "b97a0d8f-6308-4beb-863a-f031082b0725",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwOTAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    {
      "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",
      "value": "4222154"
    } ],
    "status": "completed",
    "medicationReference": {
      "reference": "Medication/ee43ee2b-e963-42f8-9fb1-f081233847b4"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "performer": [ {
      "actor": {
        "reference": "Organization/f282530d-a482-4460-ba32-5a15922c3da7"
      }
    } ],
    "authorizingPrescription": [ {
      "reference": "MedicationRequest/a82ffa9a-ce72-4336-89ec-604a1e58b443"
    } ],
    "type": {
      "coding": [ {
        "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
        "code": "FF",

```

```

        "display": "First Fill"
      } ]
    },
    "quantity": {
      "value": 12.0,
      "unit": "C48542"
    },
    "daysSupply": {
      "value": 6,
      "unit": "Day",
      "system": "http://unitsofmeasure.org",
      "code": "d"
    },
    "whenPrepared": "2025-11-23T23:00:00+00:00",
    "substitution": {
      "wasSubstituted": false
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationDispense/012f26ef-1409-4ffe-970a-42367ad33b06",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "012f26ef-1409-4ffe-970a-42367ad33b06",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMAAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T000000000021931"
    } ],
    "status": "completed",
    "medicationReference": {
      "reference": "Medication/bcfd5bca-a9e8-4bf9-a7a6-8ba549acdd08"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authorizingPrescription": [ {
      "reference": "MedicationRequest/a3460f1b-7865-468c-bb7c-fb542cce4fe9"
    } ],
    "type": {
      "coding": [ {
        "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
        "code": "FF",
        "display": "First Fill"
      } ]
    },
    "quantity": {
      "value": 24.0,
      "unit": "C48542"
    },
    "daysSupply": {
      "value": 12,
      "unit": "Day",
      "system": "http://unitsofmeasure.org",

```

```

    "code": "d"
  },
  "whenPrepared": "2025-09-24T23:00:00+00:00",
  "substitution": {
    "wasSubstituted": false
  }
},
"search": {
  "mode": "include"
}
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationDispense/f3ed6a76-46f7-4714-ac30-1c85275a5bef",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "f3ed6a76-46f7-4714-ac30-1c85275a5bef",
    "meta": {
      "versionId": "MTc2NjUxMzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
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      "value": "T00000000021931"
    } ],
    "status": "completed",
    "medicationReference": {
      "reference": "Medication/390c9a6f-8544-4118-84f4-673147f5c5a5"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authorizingPrescription": [ {
      "reference": "MedicationRequest/73925652-0ab8-457a-9e28-57646e54f760"
    } ],
    "type": {
      "coding": [ {
        "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
        "code": "FF",
        "display": "First Fill"
      } ]
    },
    "quantity": {
      "value": 9.0,
      "unit": "C28254"
    },
    "daysSupply": {
      "value": 30,
      "unit": "Day",
      "system": "http://unitsofmeasure.org",
      "code": "d"
    },
    "whenPrepared": "2025-11-23T23:00:00+00:00",
    "substitution": {
      "wasSubstituted": false
    }
  },
  "search": {
    "mode": "include"
  }
}, {

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"resource": {
  "resourceType": "MedicationDispense",
  "id": "e63d3c3f-cae9-492c-8dc6-b8bbebf81227",
  "meta": {
    "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
    "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
  },
  "identifier": [ {
    "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
    "value": "T00000000021931"
  } ],
  "status": "completed",
  "medicationReference": {
    "reference": "Medication/8f2d340d-946a-48bc-a289-4b7d98de863f"
  },
  "subject": {
    "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
  },
  "authorizingPrescription": [ {
    "reference": "MedicationRequest/99ec5816-afce-4e99-b24a-7b96f5063a76"
  } ],
  "type": {
    "coding": [ {
      "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
      "code": "FF",
      "display": "First Fill"
    } ]
  },
  "quantity": {
    "value": 28.0,
    "unit": "C48542"
  },
  "daysSupply": {
    "value": 14,
    "unit": "Day",
    "system": "http://unitsofmeasure.org",
    "code": "d"
  },
  "whenPrepared": "2025-10-16T23:00:00+00:00",
  "substitution": {
    "wasSubstituted": false
  }
}, {
  "search": {
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}, {
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  "resource": {
    "resourceType": "MedicationDispense",
    "id": "d26bd3af-d2ca-4f13-8fed-7d7bef23929f",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ]
  }
}

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    }, {
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      "value": "2122548"
    } ],
    "status": "completed",
    "medicationReference": {
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    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "performer": [ {
      "actor": {
        "reference": "Organization/6c9287c5-f917-4345-8fe0-1459ab5dc9ab"
      }
    } ],
    "authorizingPrescription": [ {
      "reference": "MedicationRequest/0d6d1b75-6118-462e-ab52-e099869612af"
    } ],
    "type": {
      "coding": [ {
        "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
        "code": "FF",
        "display": "First Fill"
      } ]
    },
    "quantity": {
      "value": 50.0,
      "unit": "C48542"
    },
    "daysSupply": {
      "value": 30,
      "unit": "Day",
      "system": "http://unitsofmeasure.org",
      "code": "d"
    },
    "whenPrepared": "2025-09-04T23:00:00+00:00",
    "substitution": {
      "wasSubstituted": false
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationDispense/b1a4fa6a-834e-463b-a9b1-a4c281cc421f",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "b1a4fa6a-834e-463b-a9b1-a4c281cc421f",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",
    "value": "2122548"
  }
}

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    } ],
    "status": "completed",
    "medicationReference": {
      "reference": "Medication/39ee8fa7-ffaa-48ed-beb0-a15c8a6f691c"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "performer": [ {
      "actor": {
        "reference": "Organization/6c9287c5-f917-4345-8fe0-1459ab5dc9ab"
      }
    } ],
    "authorizingPrescription": [ {
      "reference": "MedicationRequest/afe0c31f-9e28-45bb-ba27-35391768d508"
    } ],
    "type": {
      "coding": [ {
        "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
        "code": "FF",
        "display": "First Fill"
      } ]
    },
    "quantity": {
      "value": 900.0,
      "unit": "C28254"
    },
    "daysSupply": {
      "value": 30,
      "unit": "Day",
      "system": "http://unitsofmeasure.org",
      "code": "d"
    },
    "whenPrepared": "2025-08-30T23:00:00+00:00",
    "dosageInstruction": [ {
      "sequence": 1,
      "text": "Swish and spit 15 mL orally for 1 minute every 12 hours"
    } ],
    "substitution": {
      "wasSubstituted": false
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationDispense/e7650819-7d97-4070-adc6-1700f0c27e3c",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "e7650819-7d97-4070-adc6-1700f0c27e3c",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMAAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "status": "completed",

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"medicationReference": {
  "reference": "Medication/70601514-b394-4568-892d-941b2aa715f4"
},
"subject": {
  "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
},
"performer": [ {
  "actor": {
    "reference": "Organization/f282530d-a482-4460-ba32-5a15922c3da7"
  }
} ],
"authorizingPrescription": [ {
  "reference": "MedicationRequest/1fddc579-29e9-498a-839a-9653c410e743"
} ],
"type": {
  "coding": [ {
    "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
    "code": "FF",
    "display": "First Fill"
  } ]
},
"quantity": {
  "value": 30.0,
  "unit": "C48542"
},
"daysSupply": {
  "value": 15,
  "unit": "Day",
  "system": "http://unitsofmeasure.org",
  "code": "d"
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"whenPrepared": "2025-10-07T23:00:00+00:00",
"substitution": {
  "wasSubstituted": false
}
},
"search": {
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}
}, {
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  "resource": {
    "resourceType": "MedicationDispense",
    "id": "81562b08-f6fd-44bd-a5c3-9a3009106513",
    "meta": {
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      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
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    "identifier": [ {
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    "medicationReference": {
      "reference": "Medication/68d350a4-e776-4861-af79-96ad8a3d0e66"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    }
  },

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    "authorizingPrescription": [ {
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    } ],
    "type": {
      "coding": [ {
        "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
        "code": "RF",
        "display": "Refill 01"
      } ]
    },
    "quantity": {
      "value": 9.0,
      "unit": "C28254"
    },
    "daysSupply": {
      "value": 30,
      "unit": "Day",
      "system": "http://unitsofmeasure.org",
      "code": "d"
    },
    "whenPrepared": "2025-12-22T23:00:00+00:00",
    "substitution": {
      "wasSubstituted": false
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationDispense/cf0ad2b3-3ce2-4624-ab18-3fcbdbf20e89",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "cf0ad2b3-3ce2-4624-ab18-3fcbdbf20e89",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "status": "completed",
    "medicationReference": {
      "reference": "Medication/6dcf9592-0e2e-49dd-8c77-d72200dc2b3b"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authorizingPrescription": [ {
      "reference": "MedicationRequest/4f4b1436-20af-46fd-b09a-0d88782eb99c"
    } ],
    "type": {
      "coding": [ {
        "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
        "code": "FF",
        "display": "First Fill"
      } ]
    },
    "quantity": {

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    "value": 30.0,
    "unit": "C28254"
  },
  "whenPrepared": "2025-08-12T23:00:00+00:00",
  "substitution": {
    "wasSubstituted": false
  }
},
"search": {
  "mode": "include"
}
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationDispense/4a35056d-64c9-447d-a482-322a779ed3d0",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "4a35056d-64c9-447d-a482-322a779ed3d0",
    "meta": {
      "versionId": "MTc2NjUxMzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    }, {
      "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",
      "value": "2122548"
    } ],
    "status": "completed",
    "medicationReference": {
      "reference": "Medication/be0f6aa4-3ead-4a3f-ab90-386e89d34263"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "performer": [ {
      "actor": {
        "reference": "Organization/6c9287c5-f917-4345-8fe0-1459ab5dc9ab"
      }
    } ],
    "authorizingPrescription": [ {
      "reference": "MedicationRequest/82cc3741-d6cd-45d9-a314-82fe0cb1d1f8"
    } ],
    "type": {
      "coding": [ {
        "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
        "code": "FF",
        "display": "First Fill"
      } ]
    },
    "quantity": {
      "value": 12.0,
      "unit": "C48542"
    },
    "daysSupply": {
      "value": 6,
      "unit": "Day",
      "system": "http://unitsofmeasure.org",
      "code": "d"
    }
  },

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    "substitution": {
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    }
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  "search": {
    "mode": "include"
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}, {
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  "resource": {
    "resourceType": "MedicationDispense",
    "id": "64234232-e10d-43c6-b4d8-0548e8ae47b6",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMAAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
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      "value": "T000000000021931"
    } ],
    "status": "completed",
    "medicationReference": {
      "reference": "Medication/9e529b1d-4489-4ce0-82a0-becf8bbb6033"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "performer": [ {
      "actor": {
        "reference": "Organization/f282530d-a482-4460-ba32-5a15922c3da7"
      }
    } ],
    "authorizingPrescription": [ {
      "reference": "MedicationRequest/3c47a2a3-6801-4b63-90c5-6df53b889f69"
    } ],
    "type": {
      "coding": [ {
        "system": "http://hl7.org/fhir/ValueSet/v3-ActPharmacySupplyType",
        "code": "FF",
        "display": "First Fill"
      } ]
    },
    "quantity": {
      "value": 30.0,
      "unit": "C48542"
    },
    "daysSupply": {
      "value": 30,
      "unit": "Day",
      "system": "http://unitsofmeasure.org",
      "code": "d"
    },
    "whenPrepared": "2025-11-03T23:00:00+00:00",
    "substitution": {
      "wasSubstituted": false
    }
  },
  "search": {

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    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationRequest/73925652-0ab8-457a-9e28-57646e54f760",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "73925652-0ab8-457a-9e28-57646e54f760",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "status": "completed",
    "intent": "order",
    "medicationReference": {
      "reference": "Medication/390c9a6f-8544-4118-84f4-673147f5c5a5"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authoredOn": "2025-11-23T23:00:00+00:00",
    "dispenseRequest": {
      "numberOfRepeatsAllowed": 2,
      "expectedSupplyDuration": {
        "value": 30,
        "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply"
      }
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationRequest/d7575325-e254-4b3d-811a-dec59aca62a7",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "d7575325-e254-4b3d-811a-dec59aca62a7",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "status": "completed",
    "intent": "order",
    "medicationReference": {
      "reference": "Medication/68d350a4-e776-4861-af79-96ad8a3d0e66"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authoredOn": "2025-12-22T23:00:00+00:00",
    "dispenseRequest": {
      "numberOfRepeatsAllowed": 1,

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    "expectedSupplyDuration": {
      "value": 30,
      "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply"
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationRequest/4f4b1436-20af-46fd-b09a-0d88782eb99c",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "4f4b1436-20af-46fd-b09a-0d88782eb99c",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "status": "completed",
    "intent": "order",
    "medicationReference": {
      "reference": "Medication/6dcf9592-0e2e-49dd-8c77-d72200dc2b3b"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authoredOn": "2025-08-12T23:00:00+00:00",
    "dispenseRequest": {
      "numberOfRepeatsAllowed": 0
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationRequest/a82ffa9a-ce72-4336-89ec-604a1e58b443",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "a82ffa9a-ce72-4336-89ec-604a1e58b443",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "status": "completed",
    "intent": "order",
    "medicationReference": {
      "reference": "Medication/ee43ee2b-e963-42f8-9fb1-f081233847b4"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
  },

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    "authoredOn": "2025-11-23T23:00:00+00:00",
    "dispenseRequest": {
      "numberOfRepeatsAllowed": 0,
      "expectedSupplyDuration": {
        "value": 6,
        "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply"
      }
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationRequest/82cc3741-d6cd-45d9-a314-82fe0cb1d1f8",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "82cc3741-d6cd-45d9-a314-82fe0cb1d1f8",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMAAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "status": "completed",
    "intent": "order",
    "medicationReference": {
      "reference": "Medication/be0f6aa4-3ead-4a3f-ab90-386e89d34263"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authoredOn": "2025-09-04T23:00:00+00:00",
    "dispenseRequest": {
      "numberOfRepeatsAllowed": 0,
      "expectedSupplyDuration": {
        "value": 6,
        "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply"
      }
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationRequest/0d6d1b75-6118-462e-ab52-e099869612af",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "0d6d1b75-6118-462e-ab52-e099869612af",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMAAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "status": "completed",

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    "intent": "order",
    "medicationReference": {
      "reference": "Medication/f54704a2-4f87-4f70-8bf2-e219f087bb5f"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authoredOn": "2025-09-04T23:00:00+00:00",
    "dispenseRequest": {
      "numberOfRepeatsAllowed": 0,
      "expectedSupplyDuration": {
        "value": 30,
        "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply"
      }
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationRequest/99ec5816-afce-4e99-b24a-7b96f5063a76",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "99ec5816-afce-4e99-b24a-7b96f5063a76",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMAAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "status": "completed",
    "intent": "order",
    "medicationReference": {
      "reference": "Medication/8f2d340d-946a-48bc-a289-4b7d98de863f"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authoredOn": "2025-10-16T23:00:00+00:00",
    "dispenseRequest": {
      "numberOfRepeatsAllowed": 0,
      "expectedSupplyDuration": {
        "value": 14,
        "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply"
      }
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationRequest/afe0c31f-9e28-45bb-ba27-35391768d508",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "afe0c31f-9e28-45bb-ba27-35391768d508",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMAAwMA",

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    "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
  },
  "identifier": [ {
    "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
    "value": "T00000000021931"
  } ],
  "status": "completed",
  "intent": "order",
  "medicationReference": {
    "reference": "Medication/39ee8fa7-ffaa-48ed-beb0-a15c8a6f691c"
  },
  "subject": {
    "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
  },
  "authoredOn": "2025-08-30T23:00:00+00:00",
  "dispenseRequest": {
    "numberOfRepeatsAllowed": 1,
    "expectedSupplyDuration": {
      "value": 30,
      "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply"
    }
  }
},
"search": {
  "mode": "include"
}
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationRequest/3c47a2a3-6801-4b63-90c5-6df53b889f69",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "3c47a2a3-6801-4b63-90c5-6df53b889f69",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "status": "completed",
    "intent": "order",
    "medicationReference": {
      "reference": "Medication/9e529b1d-4489-4ce0-82a0-becf8bbb6033"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authoredOn": "2025-11-03T23:00:00+00:00",
    "requester": {
      "reference": "Practitioner/7fcd46d8-c18b-469b-bb9d-e655397d6897"
    },
    "dispenseRequest": {
      "numberOfRepeatsAllowed": 1,
      "expectedSupplyDuration": {
        "value": 30,
        "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply"
      }
    }
  }
},

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  "mode": "include"
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}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationRequest/a3460f1b-7865-468c-bb7c-fb542cce4fe9",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "a3460f1b-7865-468c-bb7c-fb542cce4fe9",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "status": "completed",
    "intent": "order",
    "medicationReference": {
      "reference": "Medication/bcfd5bca-a9e8-4bf9-a7a6-8ba549acdd08"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authoredOn": "2025-09-24T23:00:00+00:00",
    "dispenseRequest": {
      "numberOfRepeatsAllowed": 0,
      "expectedSupplyDuration": {
        "value": 12,
        "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply"
      }
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/MedicationRequest/1fddc579-29e9-498a-839a-9653c410e743",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "1fddc579-29e9-498a-839a-9653c410e743",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "status": "completed",
    "intent": "order",
    "medicationReference": {
      "reference": "Medication/70601514-b394-4568-892d-941b2aa715f4"
    },
    "subject": {
      "reference": "Patient/0279d85e-2069-438d-892d-860429bed218"
    },
    "authoredOn": "2025-10-07T23:00:00+00:00",
    "requester": {

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    "reference": "Practitioner/7fcd46d8-c18b-469b-bb9d-e655397d6897"
  },
  "dispenseRequest": {
    "numberOfRepeatsAllowed": 0,
    "expectedSupplyDuration": {
      "value": 15,
      "system": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-daysSupply"
    }
  }
},
"search": {
  "mode": "include"
}
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Organization/f282530d-a482-4460-ba32-5a15922c3da7",
  "resource": {
    "resourceType": "Organization",
    "id": "f282530d-a482-4460-ba32-5a15922c3da7",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T000000000021931"
    }, {
      "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",
      "value": "4222154"
    }, {
      "system": "http://hl7.org/fhir/sid/us-dea",
      "value": "RB7542257"
    }, {
      "system": "http://hl7.org/fhir/sid/us-npi",
      "value": "1235468844"
    }, {
      "system": "http://fhirdocs.surescripts.net/identifiers/organization-type",
      "value": "Pharmacy"
    } ],
    "active": true,
    "name": "Brooklyn @ Gates Pharmacy",
    "telecom": [ {
      "system": "phone",
      "value": "3474251221"
    } ],
    "address": [ {
      "line": [ "92 Gates Ave" ],
      "city": "Brooklyn",
      "state": "NY",
      "postalCode": "11238"
    } ]
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Organization/6c9287c5-f917-4345-8fe0-1459ab5dc9ab",
  "resource": {
    "resourceType": "Organization",
    "id": "6c9287c5-f917-4345-8fe0-1459ab5dc9ab",

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    "meta": {
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      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    }, {
      "system": "https://terminology.hl7.org/6.0.2/CodeSystem-NCPDPPProviderIdentificationNumber.html",
      "value": "2122548"
    }, {
      "system": "http://hl7.org/fhir/sid/us-dea",
      "value": "RB7566423"
    }, {
      "system": "http://hl7.org/fhir/sid/us-npi",
      "value": "1966545877"
    }, {
      "system": "http://fhirdocs.surescripts.net/identifiers/organization-type",
      "value": "Pharmacy"
    } ],
    "active": true,
    "name": "Bannockburn Pharmacy",
    "telecom": [ {
      "system": "phone",
      "value": "3016442418"
    } ],
    "address": [ {
      "line": [ "6798 Pyle Rd" ],
      "city": "Bethesda",
      "state": "MD",
      "postalCode": "20817"
    } ]
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Medication/bcfd5bca-a9e8-4bf9-a7a6-8ba549acdd08",
  "resource": {
    "resourceType": "Medication",
    "id": "bcfd5bca-a9e8-4bf9-a7a6-8ba549acdd08",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "extension": [ {
      "url": "http://fhirdocs.surescripts.net/extension/strength",
      "valueString": "875"
    } ],
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "code": {
      "coding": [ {
        "system": "http://hl7.org/fhir/sid/ndc",
        "code": "00093226401",
        "display": "amoxicillin 875 MG oral tablet"
      } ],
    }, {

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      "system": "http://www.dea.gov/drug-scheduling",
      "code": "C38046",
      "display": "Unspecified"
    } ]
  },
  "form": {
    "extension": [ {
      "url": "http://fhirdocs.surescripts.net/extension/form-value",
      "valueString": "875"
    } ],
    "coding": [ {
      "system": "http://fhirdocs.surescripts.net/coding/form",
      "code": "C43243",
      "display": "C28253"
    } ]
  }
},
"search": {
  "mode": "include"
}
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Medication/8f2d340d-946a-48bc-a289-4b7d98de863f",
  "resource": {
    "resourceType": "Medication",
    "id": "8f2d340d-946a-48bc-a289-4b7d98de863f",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMAAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "extension": [ {
      "url": "http://fhirdocs.surescripts.net/extension/strength",
      "valueString": "500"
    } ],
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "code": {
      "coding": [ {
        "system": "http://hl7.org/fhir/sid/ndc",
        "code": "76282034201",
        "display": "naproxen 500 mg tablet"
      } ],
      {
        "system": "http://www.dea.gov/drug-scheduling",
        "code": "C38046",
        "display": "Unspecified"
      }
    ]
  },
  "form": {
    "extension": [ {
      "url": "http://fhirdocs.surescripts.net/extension/form-value",
      "valueString": "500"
    } ],
    "coding": [ {
      "system": "http://fhirdocs.surescripts.net/coding/form",
      "code": "C43243",
      "display": "C28253"
    } ]
  }
}

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    },
    "search": {
      "mode": "include"
    }
  }, {
    "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Medication/39ee8fa7-ffaa-48ed-beb0-a15c8a6f691c",
    "resource": {
      "resourceType": "Medication",
      "id": "39ee8fa7-ffaa-48ed-beb0-a15c8a6f691c",
      "meta": {
        "versionId": "MTc2NjUxMzQ5MzQ3ODAwMA",
        "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
      },
      "identifier": [ {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000021931"
      } ],
      "code": {
        "coding": [ {
          "system": "http://www.dea.gov/drug-scheduling",
          "code": "C38046",
          "display": "Unspecified"
        } ]
      }
    },
    "search": {
      "mode": "include"
    }
  }, {
    "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Medication/68d350a4-e776-4861-af79-96ad8a3d0e66",
    "resource": {
      "resourceType": "Medication",
      "id": "68d350a4-e776-4861-af79-96ad8a3d0e66",
      "meta": {
        "versionId": "MTc2NjUxMzQ5MzQ3ODAwMA",
        "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
      },
      "extension": [ {
        "url": "http://fhirdocs.surescripts.net/extension/strength",
        "valueString": "6"
      } ],
      "identifier": [ {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000021931"
      } ],
      "code": {
        "coding": [ {
          "system": "http://hl7.org/fhir/sid/ndc",
          "code": "00169406012",
          "display": "Victoza 18 mg/3 mL Pen"
        } ],
        {
          "system": "http://www.dea.gov/drug-scheduling",
          "code": "C38046",
          "display": "Unspecified"
        }
      ],
      "form": {
        "extension": [ {
          "url": "http://fhirdocs.surescripts.net/extension/form-value",

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        "valueString": "6"
      } ],
      "coding": [ {
        "system": "http://fhirdocs.surescripts.net/coding/form",
        "code": "C97717",
        "display": "C42576"
      } ]
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Medication/ee43ee2b-e963-42f8-9fb1-f081233847b4",
  "resource": {
    "resourceType": "Medication",
    "id": "ee43ee2b-e963-42f8-9fb1-f081233847b4",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMDAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "extension": [ {
      "url": "http://fhirdocs.surescripts.net/extension/strength",
      "valueString": "5-120"
    } ],
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "code": {
      "coding": [ {
        "system": "http://hl7.org/fhir/sid/ndc",
        "code": "50580072812",
        "display": "ZyrTEC-D XR oral tablet"
      }, {
        "system": "http://www.dea.gov/drug-scheduling",
        "code": "C38046",
        "display": "Unspecified"
      } ]
    },
    "form": {
      "extension": [ {
        "url": "http://fhirdocs.surescripts.net/extension/form-value",
        "valueString": "5-120"
      } ],
      "coding": [ {
        "system": "http://fhirdocs.surescripts.net/coding/form",
        "code": "C42927",
        "display": "C28253"
      } ]
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Medication/6dcf9592-0e2e-49dd-8c77-d72200dc2b3b",
  "resource": {
    "resourceType": "Medication",

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    "id": "6dcf9592-0e2e-49dd-8c77-d72200dc2b3b",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMAAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "code": {
      "coding": [ {
        "system": "http://www.dea.gov/drug-scheduling",
        "code": "C38046",
        "display": "Unspecified"
      } ]
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Medication/390c9a6f-8544-4118-84f4-673147f5c5a5",
  "resource": {
    "resourceType": "Medication",
    "id": "390c9a6f-8544-4118-84f4-673147f5c5a5",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMAAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "extension": [ {
      "url": "http://fhirdocs.surescripts.net/extension/strength",
      "valueString": "6"
    } ],
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "code": {
      "coding": [ {
        "system": "http://hl7.org/fhir/sid/ndc",
        "code": "00169406012",
        "display": "Victoza 18 mg/3 mL Pen"
      } ],
      {
        "system": "http://www.dea.gov/drug-scheduling",
        "code": "C38046",
        "display": "Unspecified"
      } ]
    },
    "form": {
      "extension": [ {
        "url": "http://fhirdocs.surescripts.net/extension/form-value",
        "valueString": "6"
      } ],
      "coding": [ {
        "system": "http://fhirdocs.surescripts.net/coding/form",
        "code": "C97717",
        "display": "C42576"
      } ]
    }
  }
}

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    },
    "search": {
      "mode": "include"
    }
  }, {
    "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Medication/9e529b1d-4489-4ce0-82a0-becf8bbb6033",
    "resource": {
      "resourceType": "Medication",
      "id": "9e529b1d-4489-4ce0-82a0-becf8bbb6033",
      "meta": {
        "versionId": "MTc2NjUxMzQ5MzQ3ODAwMA",
        "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
      },
      "extension": [ {
        "url": "http://fhirdocs.surescripts.net/extension/strength",
        "valueString": "100"
      } ],
      "identifier": [ {
        "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
        "value": "T00000000021931"
      } ],
      "code": [ {
        "coding": [ {
          "system": "http://hl7.org/fhir/sid/ndc",
          "code": "00527260237",
          "display": "Metoprolol Succinate ER 100 mg tablet"
        }, {
          "system": "http://www.dea.gov/drug-scheduling",
          "code": "C38046",
          "display": "Unspecified"
        } ]
      } ],
      "form": {
        "extension": [ {
          "url": "http://fhirdocs.surescripts.net/extension/form-value",
          "valueString": "100"
        } ],
        "coding": [ {
          "system": "http://fhirdocs.surescripts.net/coding/form",
          "code": "C42927",
          "display": "C28253"
        } ]
      }
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Medication/70601514-b394-4568-892d-941b2aa715f4",
  "resource": {
    "resourceType": "Medication",
    "id": "70601514-b394-4568-892d-941b2aa715f4",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "extension": [ {
      "url": "http://fhirdocs.surescripts.net/extension/strength",
      "valueString": "20"
    } ]
  }
}

```

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    } ],
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "code": {
      "coding": [ {
        "system": "http://hl7.org/fhir/sid/ndc",
        "code": "10702005701",
        "display": "Oxycodone HCL 20 mg tablet"
      }, {
        "system": "http://www.dea.gov/drug-scheduling",
        "code": "C48675",
        "display": "Schedule II"
      } ]
    },
    "form": {
      "extension": [ {
        "url": "http://fhirdocs.surescripts.net/extension/form-value",
        "valueString": "20"
      } ],
      "coding": [ {
        "system": "http://fhirdocs.surescripts.net/coding/form",
        "code": "C43243",
        "display": "C28253"
      } ]
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Medication/be0f6aa4-3ead-4a3f-ab90-386e89d34263",
  "resource": {
    "resourceType": "Medication",
    "id": "be0f6aa4-3ead-4a3f-ab90-386e89d34263",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "extension": [ {
      "url": "http://fhirdocs.surescripts.net/extension/strength",
      "valueString": "5-120"
    } ],
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "code": {
      "coding": [ {
        "system": "http://hl7.org/fhir/sid/ndc",
        "code": "50580072812",
        "display": "Zyrtec-D XR oral tablet"
      }, {
        "system": "http://www.dea.gov/drug-scheduling",
        "code": "C38046",
        "display": "Unspecified"
      } ]
    }
  },

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    "form": {
      "extension": [ {
        "url": "http://fhirdocs.surescripts.net/extension/form-value",
        "valueString": "5-120"
      } ],
      "coding": [ {
        "system": "http://fhirdocs.surescripts.net/coding/form",
        "code": "C42927",
        "display": "C28253"
      } ]
    }
  },
  "search": {
    "mode": "include"
  }
}, {
  "fullUrl": "https://care-coordination.surescripts.net/ext/v1/Medication/f54704a2-4f87-4f70-8bf2-e219f087bb5f",
  "resource": {
    "resourceType": "Medication",
    "id": "f54704a2-4f87-4f70-8bf2-e219f087bb5f",
    "meta": {
      "versionId": "MTc2NjUxMzQ5MzQ3ODAwMA",
      "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
    },
    "extension": [ {
      "url": "http://fhirdocs.surescripts.net/extension/strength",
      "valueString": "200"
    } ],
    "identifier": [ {
      "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
      "value": "T00000000021931"
    } ],
    "code": {
      "coding": [ {
        "system": "http://hl7.org/fhir/sid/ndc",
        "code": "00904791451",
        "display": "Ibuprofen 200 MG oral tablet"
      } ],
      {
        "system": "http://www.dea.gov/drug-scheduling",
        "code": "C38046",
        "display": "Unspecified"
      }
    ]
  },
  "form": {
    "extension": [ {
      "url": "http://fhirdocs.surescripts.net/extension/form-value",
      "valueString": "200"
    } ],
    "coding": [ {
      "system": "http://fhirdocs.surescripts.net/coding/form",
      "code": "C43243",
      "display": "C28253"
    } ]
  }
},
  "search": {
    "mode": "include"
  }
}, {

```

```

"fullUrl": "https://care-coordination.surescripts.net/ext/v1/Patient/0279d85e-2069-438d-892d-860429bed218",
"resource": {
  "resourceType": "Patient",
  "id": "0279d85e-2069-438d-892d-860429bed218",
  "meta": {
    "versionId": "MTc2NjUxMzQ5MzQ3ODAwMA",
    "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
  },
  "identifier": [ {
    "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
    "value": "T00000000021931"
  }, {
    "system": "2.16.840.1.113883.3.2054.2.3.1",
    "value": "68958f7d4e95-4c75-ae82-104fb84519a6"
  } ],
  "active": true,
  "name": [ {
    "family": "Devereaux",
    "given": [ "Margaret Adelia" ]
  } ],
  "gender": "female",
  "birthDate": "1997-11-01",
  "address": [ {
    "line": [ "27-B Heald St" ],
    "city": "Pepperell",
    "state": "MA",
    "postalCode": "01463"
  } ]
},
"search": {
  "mode": "include"
}
}, {
"fullUrl": "https://care-coordination.surescripts.net/ext/v1/Practitioner/7fcd46d8-c18b-469b-bb9d-e655397d6897",
"resource": {
  "resourceType": "Practitioner",
  "id": "7fcd46d8-c18b-469b-bb9d-e655397d6897",
  "meta": {
    "versionId": "MTc2NjUxMzQ5MzQ3ODAwMA",
    "lastUpdated": "2025-12-23T18:11:33.478049+00:00"
  },
  "identifier": [ {
    "system": "http://fhirdocs.surescripts.net/identifiers/participantid",
    "value": "T00000000021931"
  }, {
    "system": "http://hl7.org/fhir/sid/us-npi",
    "value": "2888888882"
  } ],

```

Capability Statement Resource

Capability Statement Resource

```
{
  "resourceType": "CapabilityStatement",
  "id": "6d1887f6-2a27-4b0e-82bf-fa28ed800638",
  "version": "20250220",
  "status": "draft",
  "experimental": true,
  "date": "2025-02-20",
  "publisher": "Surescripts",
  "description": "FHIR capability statement",
  "kind": "instance",
  "fhirVersion": "4.0.1",
  "format": [
    "json"
  ],
  "patchFormat": [
    "application/json-patch+json"
  ],
  "rest": [
    {
      "mode": "server",
      "security": {
        "service": [
          {
            "coding": [
              {
                "system": "http://fhirdocs.surescripts.net/coding/mutual-transport-layer-security",
                "code": "mTLS"
              }
            ]
          }
        ]
      }
    },
    {
      "resource": [
        {
          "type": "CapabilityStatement",
          "interaction": [
            {
              "code": "read"
            },
            {
              "code": "search-type"
            }
          ],
          "readHistory": false,
          "updateCreate": false,
          "conditionalCreate": false,
          "conditionalUpdate": false
        },
        {
          "type": "Communication",
          "interaction": [
            {
              "code": "read"
            },
            {
              "code": "search-type"
            }
          ]
        }
      ]
    }
  ]
}
```

```

    }
  ],
  "readHistory": false,
  "updateCreate": false,
  "conditionalCreate": false,
  "conditionalUpdate": false,
  "searchInclude": [
    "Communication.based-on",
    "Communication.subject"
  ],
  "searchParam": [
    {
      "extension": [
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "missing"
          }
        },
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "type"
          }
        }
      ],
      "name": "based-on",
      "definition": "http://hl7.org/fhir/SearchParameter/Communication-based-on",
      "type": "reference"
    },
    {
      "extension": [
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "missing"
          }
        },
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "not"
          }
        },
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "above"
          }
        },
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",

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        "code": "below"
    }
},
{
    "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
    "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "text"
    }
},
{
    "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
    "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "in"
    }
},
{
    "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
    "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "not-in"
    }
}
],
"name": "category",
"definition": "http://hl7.org/fhir/SearchParameter/Communication-category",
"type": "token"
},
{
    "extension": [
        {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
                "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
                "code": "missing"
            }
        },
        {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
                "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
                "code": "not"
            }
        },
        {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
                "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
                "code": "above"
            }
        },
        {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
                "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
                "code": "below"
            }
        }
    ]
},

```

```

        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "text"
          }
        },
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "in"
          }
        },
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "not-in"
          }
        }
      ],
      "name": "identifier",
      "definition": "http://hl7.org/fhir/SearchParameter/Communication-identifier",
      "type": "token"
    },
    {
      "extension": [
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "missing"
          }
        },
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "type"
          }
        }
      ],
      "name": "subject",
      "definition": "http://hl7.org/fhir/SearchParameter/Communication-subject",
      "type": "reference"
    }
  ]
},
{
  "type": "Condition",
  "supportedProfile": [
    "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition|4.1.0"
  ],
  "interaction": [
    {
      "code": "read"
    },
    {

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        "code": "search-type"
      }
    ],
    "readHistory": false,
    "updateCreate": false,
    "conditionalCreate": false,
    "conditionalUpdate": false,
    "searchInclude": [
      "Condition.subject"
    ],
    "searchParam": [
      {
        "extension": [
          {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
              "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
              "code": "missing"
            }
          },
          {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
              "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
              "code": "not"
            }
          },
          {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
              "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
              "code": "above"
            }
          },
          {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
              "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
              "code": "below"
            }
          },
          {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
              "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
              "code": "text"
            }
          },
          {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
              "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
              "code": "in"
            }
          },
          {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
              "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",

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        "code": "not-in"
      }
    }
  ],
  "name": "code",
  "definition": "http://hl7.org/fhir/SearchParameter/clinical-code",
  "type": "token"
},
{
  "extension": [
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "missing"
      }
    },
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "not"
      }
    },
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "above"
      }
    },
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "below"
      }
    },
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "text"
      }
    },
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "in"
      }
    },
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "not-in"
      }
    }
  ]
}

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    ],
    "name": "category",
    "definition": "http://hl7.org/fhir/SearchParameter/Condition-category",
    "type": "token"
  },
  {
    "extension": [
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {
          "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
          "code": "missing"
        }
      },
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {
          "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
          "code": "type"
        }
      }
    ],
    "name": "subject",
    "definition": "http://hl7.org/fhir/SearchParameter/Condition-subject",
    "type": "reference"
  }
]
},
{
  "type": "Medication",
  "supportedProfile": [
    "http://hl7.org/fhir/us/core/StructureDefinition/us-core-medication|4.1.0"
  ],
  "interaction": [
    {
      "code": "read"
    },
    {
      "code": "search-type"
    }
  ],
  "readHistory": false,
  "updateCreate": false,
  "conditionalCreate": false,
  "conditionalUpdate": false,
  "searchRevInclude": [
    "MedicationDispense.medication",
    "MedicationRequest.medication"
  ],
  "searchParam": [
    {
      "extension": [
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "missing"
          }
        }
      ]
    }
  ],

```

```

        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "not"
          }
        },
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "above"
          }
        },
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "below"
          }
        },
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "text"
          }
        },
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "in"
          }
        },
        {
          "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
          "valueCoding": {
            "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
            "code": "not-in"
          }
        }
      ],
      "name": "code",
      "definition": "http://hl7.org/fhir/SearchParameter/clinical-code",
      "type": "token"
    }
  ],
},
{
  "type": "MedicationDispense",
  "interaction": [
    {
      "code": "read"
    },
    {
      "code": "search-type"
    }
  ]
},

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```

"readHistory": false,
"updateCreate": false,
"conditionalCreate": false,
"conditionalUpdate": false,
"searchInclude": [
  "MedicationDispense.medication",
  "MedicationDispense.performer",
  "MedicationDispense.subject"
],
"searchRevInclude": [
  "Communication.based-on"
],
"searchParam": [
  {
    "extension": [
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {
          "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
          "code": "missing"
        }
      },
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {
          "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
          "code": "type"
        }
      }
    ],
    "name": "medication",
    "definition": "http://hl7.org/fhir/SearchParameter/medications-medication",
    "type": "reference"
  },
  {
    "extension": [
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {
          "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
          "code": "missing"
        }
      },
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {
          "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
          "code": "type"
        }
      }
    ],
    "name": "performer",
    "definition": "http://hl7.org/fhir/SearchParameter/MedicationDispense-performer",
    "type": "reference"
  },
  {
    "extension": [
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",

```

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        "valueCoding": {
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      "type": "token"
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    ],
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            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
              "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
              "code": "contains"
            }
          }
        ],
        "name": "address",
        "definition": "http://hl7.org/fhir/SearchParameter/individual-address",
        "type": "string"
      },
      {
        "extension": [
          {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
              "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
              "code": "missing"
            }
          },
          {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
              "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
              "code": "exact"
            }
          },
          {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
              "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",

```

```

        "code": "contains"
      }
    }
  ],
  "name": "address-city",
  "definition": "http://hl7.org/fhir/SearchParameter/individual-address-city",
  "type": "string"
},
{
  "extension": [
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "missing"
      }
    },
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "exact"
      }
    },
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "contains"
      }
    }
  ],
  "name": "address-postalcode",
  "definition": "http://hl7.org/fhir/SearchParameter/individual-address-postalcode",
  "type": "string"
},
{
  "extension": [
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "missing"
      }
    },
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "exact"
      }
    },
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "contains"
      }
    }
  ]
}

```

```

    ],
    "name": "address-state",
    "definition": "http://hl7.org/fhir/SearchParameter/individual-address-state",
    "type": "string"
  },
  {
    "extension": [
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {
          "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
          "code": "missing"
        }
      },
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {
          "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
          "code": "not"
        }
      },
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {
          "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
          "code": "above"
        }
      },
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {
          "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
          "code": "below"
        }
      },
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {
          "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
          "code": "in"
        }
      },
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {
          "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
          "code": "not-in"
        }
      }
    ],
    "name": "telecom",
    "definition": "http://hl7.org/fhir/SearchParameter/individual-telecom",
    "type": "token"
  },
  {
    "extension": [
      {
        "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
        "valueCoding": {

```

```

        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "missing"
    }
},
{
    "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
    "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "not"
    }
},
{
    "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
    "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "above"
    }
},
{
    "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
    "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "below"
    }
},
{
    "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
    "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "text"
    }
},
{
    "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
    "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "in"
    }
},
{
    "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
    "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "not-in"
    }
}
],
"name": "identifier",
"definition": "http://hl7.org/fhir/SearchParameter/Practitioner-identifier",
"type": "token"
},
{
    "extension": [
        {
            "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
            "valueCoding": {
                "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
                "code": "missing"
            }
        }
    ]
}

```

```

    },
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "exact"
      }
    },
    {
      "url": "https://g.co/fhir/StructureDefinition/CapabilityStatementSearchParameterModifiers",
      "valueCoding": {
        "system": "http://hl7.org/fhir/ValueSet/search-modifier-code",
        "code": "contains"
      }
    }
  ]
}

```

400 – Bad Request Message Response

400 – Bad Request Message Response

```

{
  "resourceType": "Bundle",
  "id": "c4148891-47a6-4a75-bad7-61aff3e73c6a",
  "type": "searchset",
  "total": 0,
  "entry": [
    {
      "fullUrl": "OperationOutcome/ba1b2bb3-075d-490f-b647-0e5e92c6ea07",
      "resource": {
        "resourceType": "OperationOutcome",
        "issue": [
          {
            "severity": "error",
            "code": "exception",
            "diagnostics": "_lastUpdated date of 2020-16-19T23:59:59Z is formatted incorrectly."
          }
        ]
      }
    }
  ]
}

```

9. Patient File Load Examples

The following flat files examples are provided in this section:

- [Patient File Enrollment Load Example](#)
- [Patient File Unenrollment Load Example](#)
- [Patient Response File Example](#)
- [Patient File Load Error Examples](#)
 - [Patient File Load Error Example: Header Information – Invalid Participant ID](#)
 - [Patient File Load Error Example: Detail Information Patient File – File Loaded with Error](#)
 - [Patient File Load Error Example: Detail Information Patient File – Multiple Errors](#)

Patient File Enrollment Load Example

The following is an example of a Patient File Load that was successfully processed.

HDR|3.0|T00000000012345|PASSWORD|S000000000000003|TRS8804|20181217|00110102|PMA|U|20181217|T|HIGHRISK||12||2024
0101|20241231

PMA|1|72.7.2.7272510|58861323|Jones|Robert|Jonathan|Mr.||123 Street
Avenue|Unit#41|Jacksonville|CO|55123|20060701|M|1234567893|20231231|PMANewRx,PMARefill|2025550147

PNM|2|72.7.2.7272510|6756367|Crandall|Max||MR||382 115th Road SE|Comal|SC|29929|19521101|M|199999999|20180908||

PNM|3|72.7.2.7272510|56800669|Mann|Adam||Dr.||1926 800th
ST||Collingsworth|NE|68178|19700515|M|199999999|20180908||3125550893|

PAT|4|72.7.2.7272510|43726207|Bell|Catherine|Marcia|||6245 572nd
Street||Gholson|WY|82010|19800527|F|199999999|20180908||4155552764|urn:oid: 72.7.2.7272510

PAT|5|72.7.2.7272510|27335157|Rogers|Steven|||PHD|3539 Salmon Lane
E||Williamson|ND|58102|19541109|M|199999999|20180908|||urn:oid: 72.7.2.7272510

PMA|6|72.7.2.7272510|96067214|Flash|Dale|||MD|8896 Arthur
Lane||Pleasanton|GU|96919|19540707|M|199999999|20180908|||urn:oid: 72.7.2.7272510

PMA|7|72.7.2.7272510|58861323|Kelley|Carrie|||1879 Madison
ST||Yorktown|PR|00601|20100301|F|199999999|20180908|||urn:oid: 72.7.2.7272510

PMA|8|72.7.2.7272510|75519315|Kyle|Selina|||2048 642nd Avenue
NE||Schleicher|OH|44322|19690326|F|199999999|20180908|PMAFirstFillNotPickedUp|6465554821|urn:oid: 72.7.2.7272510

PMA|9|72.7.2.7272510|90718490|Scott|Allan|||II|7017 Walleye AVE||Randall|MD|21401|20020409|M|199999999|20180908|||urn:oid:
72.7.2.7272510

PMA|10|72.7.2.7272510|80289001|Grayson|Dick|Robin|||5946 90th Lane NW||North
Cleveland|OR|97420|20081203|M|199999999|20180908|||urn:oid: 72.7.2.7272510

TRL|10

Patient File Unenrollment Load Example

The following is an example of a UNR Patient File Load that was successfully processed.

```
HDR|3.0|T000000004654294|PASSWORD94|S00000000000003|Trnsm030|20170307|10110102|PMA|U|20170228|T|PAT||
UNR|1|PMA|20210901
TRL|1
```

Patient Response File Example

The following is an example of a Patient Response File that is sent from Surescripts to the customer.

```
SHD|3.0|T00000000012345|S000000000000003|27cbc136-16c1-489e-84c8-
f1e56cd22e9d|20181217|07024411|PMA|TRS8804|20181217|00110102|T|01|File Loaded Correctly.
STR|10|0|10|0
```

Patient File Load Error Examples

Header Information – Invalid Participant ID

Patient File Load

The Patient File Load example below contains an error in the header. In this example no records were loaded. The error has been color-coded as follows:

- **Invalid Sender ID, does not match the Customer ID**
- **Invalid Participant Password (Customer Password)**

Example:

```
HDR|3.0|T00000000099999|PASSING|S000000000000003|TRS8804|20181217|00110102|PMA|U|20181217|T|HIGHRISK||
PMA|1|72.7.2.7272510|57919598|Austin|Steve||MR||1152 Winding LN||Trinidad|NJ|07101|20021103|M|199999999|20180908|
PNM|2|72.7.2.7272510|6756367|Crandall|Max||MR||382 115th Road SE||Comal|SC|29929|19521101|M|199999999|20180908|
TRL|2
```

Patient Response File

The Patient Response File example below shows an example of an error that will be sent in response to a Patient File Load that includes errors in the header (e.g., Invalid Participant ID, Invalid Participant Password).

Example:

```
SHD|3.0|T00000000099999|S000000000000003|bda2d0fb-f3d2-4d6b-be58-
46a2d5255dfb|20181218|23020861|PMA|TRS8804|20181217|00110102|T|03|Invalid HDR and / or TRL. File not loaded.
```

SDT|1||||E|118|The Sender Password provided in the fileload is different than the password provided in the customer activation form.

SDT|1||||E|116|The Sender ID T00000000012345 provided in the header does not match the customer ID T00000000099999 in the activation form.

```
SDT|2|1|72.7.2.7272510|57919598|E|101|No valid contract for record type PMA exists.
```

SDT|3|2|72.7.2.7272510|6756367|E|101|No valid contract for record type PNM exists.

STR|2|2|0|4

Detail Information Patient File – File Loaded with Error

Patient File Load

In the Patient File Load example below, record #2 did not include the birthdate column, which is a required field. The data in the error has been color-coded as follows:

Record 2 is missing the Date of Birth

Example:

HDR|3.0|T00000000012345|PASSWORD|S000000000000003|TRS8804|20181217|00110102|PMA|U|20181217|T|HIGHRISK||12||2024
0101|20241231

PMA|1|72.7.2.7272510|57919598|Austin|Steve||MR||1152 Winding LN||Trinidad|NJ|07101|20021103|M|199999999|20180908|

PNM|2|72.7.2.7272510|6756367|Crandall|Max||MR||382 115th Road SE||Comal|SC|29929||M|199999999|20180908|

TRL|2

Patient Response File

The Patient Response File example below shows an example of an error that will be sent in response to a Patient File Load that did not include a required field (e.g., Date of Birth).

Example:

SHD|3.0|T00000000012345|S000000000000003|8cb0906a-330d-4bc2-83b4-
0459ae87bb46|20181217|09030947|PMA|TRS8804|20181217|00110102|T|02|File loaded with errors.

SDT|3|2|72.7.2.7272510|6756367|E|107|Required column birthDate missing.

STR|2|1|1|1

Detail Information Patient File – Multiple Errors

Patient File Load

The Patient File Load example below contains multiple errors in the Detail Information Patient File.

The errors have been color-coded as follows:

- **Record 1 has an invalid NPI**
- **Record 2 is missing the NPI**
- **Record 3 has an invalid end monitoring date**
- **Record 4 has an invalid name character count**
- **Record 5 is missing the Patient Id**

Example:

HDR|3.0|T00000000012345|PASSWORD|S000000000000003|TRS8804|20181217|00110102|PMA|U|20181217|T|HIGHRISK||12||2024
0101|20241231

PMA|1|72.7.2.7272510|57919598|Austin|Steve||MR||1152 Winding
LN||Trinidad|NJ|07101|20021103|M|999999999|20180908|PMAControlledSubstance,PMANewPrescriber||

PNM|2|72.7.2.7272510|6756367|Crandall|Max||MR||382 115th Road SE||Comal|SC|29929|19521101|M||20180908|||

PNM|3|72.7.2.7272510|80289003|Valdez|J|Pickle|||2590 388th LN||West
Orange|AR|72944|20120316|M|1932400116|202108254|||

PMA|4|72.7.2.7272510|75519318|Va|J|P|||2590 388th LN||West Orange|AR|72944|20120316|M|1932400116|20211899|||

PMA|5|72.7.2.7272510||Rogers|Steven|||PHD|3539 Salmon Lane E||Williamson|ND|58102|19541109|M|199999999|20180908|||

PMA|6|72.7.2.7272510|96067214|Flash|Dale|||MD|8896 Arthur Lane||Pleasanton|GU|96919|19540707|M|199999999|20180908|||

PMA|7|72.7.2.7272510|58861323|Kelley|Carrie|||1879 Madison ST||Yorktown|PR|00601|20100301|F|199999999|20180908|||

PMA|8|72.7.2.7272510|75519315|Kyle|Selina|||2048 642nd Avenue NE||Schleicher|OH|44322|19690326|F|199999999|20180908|||

PMA|9|72.7.2.7272510|90718490|Scott|Allan|||II|7017 Walleye AVE||Randall|MD|21401|20020409|M|199999999|20180908|||

PMA|10|72.7.2.7272510|80289001|Grayson|Dick|Robin|||5946 90th Lane NW||North
Cleveland|OR|97420|20081203|M|199999999|20180908|||

TRL|10

Patient Response File

The Patient Response File example below shows an example of an error that will be sent in response to a Patient File Load that contains multiple errors.

Example:

SHD|3.0|T00000000012345|S000000000000003|e61d1e43-a6c2-42e4-a7d8-
36c99f7ff9bc|20181219|01022815|PMA|TRS8804|20181217|00110102|T|02|File loaded with errors.

SDT|2|1|72.7.2.7272510|57919598|E|109|Invalid NPI value: 999999999.

SDT|3|2|72.7.2.7272510|6756367|E|107|Required column np_i missing.

SDT|4|3|72.7.2.7272510|56800669|E|110|Invalid format for date field End Monitoring Date Expected: 8 digits in the CCYYMMDD format. Actual: 20210825.

SDT|5|4|72.7.2.7272510|43726207|E|127|Two of a person's names (Last Name, First Name, Middle Name) must have 2 or more characters.

SDT|6|5|72.7.2.7272510||E|107|Required column patientId missing.

STR|10|5|5|5

10. File Load Validation and Error Code Details

Error Type Descriptions

Error Type	Description
Warning	Does not fail file or row.
Error	Fails row error it is associated with.
Fatal	Fails entire file load, nothing is processed.

Patient File Load Validations and Errors

Load Status	Type	Description
01	N/A	File loaded correctly.
02	Warning	File loaded with errors and/or warnings.
03	Fatal	Failed to load file. No data was processed.

Patient Response File Errors

C od e	Typ e	Description	Comment
100	Warning	Record count in the trailer does not match the actual number of records in file. Actual: <recordCount> Expected: <trailerCount>.	Make sure number of rows in file matched what was reported in the trailer.
101	Fatal	No valid contracts exist. Customer is missing contract for <recordTypeCode (PNM, PMA, PAT)>.	
103	Error	Trailer Not Present.	
104	Error	Incorrect number of fields for row type <rowType>. Expected: <expectednNumber>, Actual: <actualNumber>.	Example: SDT 1242 E 104 Incorrect number of columns for row type PNM. Expected: 19, Actual: 20.
105	Error	Rows exist after trailer.	
106	Error	Multiple Header rows encountered.	
107	Error	Required field <fieldName> is missing.	
108	Error	Maximum length for field <fieldName> exceeded. Maximum Length: <maximumNumber>, Actual Length: <actualNumber>.	
109	Error	Invalid NPI value: <NPI>.	
110	Error	Invalid format for [time, date] field <fieldName>. Expected: <expectedNumber> digits in the <expectedLayout> format. Actual: <actualNumber>.	Used on date/time checks. Example: Invalid format for date field Date of Birth Expected: 8 digits in the CCYYMMDD format. Actual: 01/15/98.
113	Error	Expected value for field <fieldName> not found. Expected: <expectednNumber>. Actual: <actualNumber>.	Transmission action and FileSchedule are both conditional, as a result the file will not fail if this does not exist. For example, receiverId must be S000000000000003.
114	Error	Incorrect length for field <fieldName>. Expected Length: <expectednNumber>, Actual Length: <actualNumber>.	Used for NPI
115	Error	Date for field <fieldName> must be in the past. Actual Date: <date from file>.	Used for DateOfBirth validation. Note: This field takes the time into consideration when that field is included.
116	Error	The Sender ID <senderID> provided in the header does not match the Customer ID <userID> in the activation form.	

C od e	Typ e	Description	Comment
117	Error	Field <fieldName> must contain ASCII characters between 32 and 126. Invalid characters found: <actual>.	The actual value <actual> will display the Unicode escaped response (U+hex: \u0020) showing the character detected. Example: Field State must contain ASCII characters between 32 and 126. Invalid characters found: \u0BAF\u0BBE
118	Error	The Sender Password provided in the fileload is different than the password provided in the customer activation form.	
119	Error	The notification type(s) provided <requestedNotificationTypes> are not in your list of contracted notification type(s) <validNotificationTypes>.	A list of alerts was included on the patient record, but none of them were contracted. The patient was not loaded.
122	Warning	You have specified patient notification type for a panel-only patient. Your specified notification types of <requestedNotificationTypes> will be ignored.	
123	Error	Value provided <actual> is not in range. Must be between <min> and <max>.	Example: Value provided 13 is not in range. Must be between 1 and 12.
124	Error	The NPI provided is valid but the NPPES registration is missing the provider first or last name which prevents processing this row. The NPPES registry will need to be updated.	Data mapping issue. If this error appears, Contact Surescripts support with error code and description to resolve.
125	Error	The NPI provided is valid but the NPPES registration is missing the facility name which prevents processing this row. The NPPES registry will need to be updated.	Data mapping issue. If this error appears, Contact Surescripts support with error code and description to resolve.
126	Error	Field <fieldName> does not meet minimum length. Must be at least <min> characters. Actual: <actual>.	
127	Error	Two of a person's names (Last Name, First Name, Middle Name) must have 2 or more characters.	
128	Error	Field end monitoring date must be a date in the future or empty. Actual: <actual>.	
129	Fatal	The file <currentFilename> was not loaded. A file <previousFilename> with the same detail information was processed on <YYYY-MM-DD HH:MM:SS,SSS>.	Duplicate Panel File. To resolve this error, make changes to the details in the file that you are loading, change the lookback period, or wait at least 24 hours to reload it.
131	Fatal	The UNR record type is not allowed in the same file with [PMA, PAT, PNM] record types.	
132	Error	Field Postal Code must consist of 5 digits, an optional hyphen (-), and up to 4 additional digits. Actual value: <passedInZipCode>.	

C od e	Typ e	Description	Comment
133	Err or	Value for field <fieldName> must be a positive integer. Actual: <actual>.	
134	War nin g	Blank row ignored on line number %s	
135	Err or	RequestRangeStart must be earlier than RequestRangeEnd.	
136	Err or	Date range cannot be more than %s months.	
137	Err or	Invalid Phone number.	
138	Fat al	Med history health plan participant must be configured with flat file output.	
139	Fat al	Med history health plan participant must be configured with version Mhv4.	

Applicable Header Row Error Codes

The following table lists the possible error codes that could occur for each field.

Please be aware that over time, Surescripts may continue to modify, add, or remove applicable field error code listings. As error information is updated, the table below is subject to change, and this implementation guide will be revised to provide all of the necessary details for displaying accurate error information within a timely manner.

Note: All header errors are fatal and will fail the entire file load.

Field #	Field Name	Possible Error Code(s)
0	Record Type	113
1	Version	113 117
2	Sender ID	114 116 117 118
3	Sender Password	114 117 118
4	Receiver ID	113 114 117
5	Transmission Control Number	107 108 117
6	Transmission Date	107 110 117
7	Transmission Time	107 110 117
8	Transmission File Type	N/A
9	Transmission Action	113 117
10	Extract Date	107 110 117
11	Usage Indicator	113 117
12	Patient Population ID	107 108 117
13	File Schedule	108 113 117
14	Look Back Period in Months	117 123

Applicable Enrollment Detail Row Error Codes

The following table lists the possible error codes that could occur for each field.

Please be aware that over time, Surescripts may continue to modify, add, or remove applicable field error code listings. As error information is updated, the table below is subject to change, and this implementation guide will be revised to provide all of the necessary details for displaying accurate error information within a timely manner.

Field #	Field Name	Possible Error Code(s)
0	Record Type	101 113
1	Record Sequence Number	107 108 117 133
2	Assigning Authority	107 108 117
3	Patient ID	107 108 117
4	Last Name	107 108 117 127
5	First Name	107 108 117 127
6	Middle Name	108 117 127
7	Prefix	108 117
8	Suffix	108 117
9	Address Line 1	108 117
10	Address Line 2	108 117
11	City Name	108 117 126
12	State	117 118
13	Postal Code	107 117 132

Field #	Field Name	Possible Error Code(s)
14	Date of Birth	107 110 115 117
15	Gender	113 117
16	NPI	107 109 114 117 124 125
17	End Monitoring Date	110 128
18	Notification Requested for This Patient	108 119 122

Applicable Unenrollment Detail Row Error Codes

The following table lists the possible error codes that could occur for each field.

Please be aware that over time, Surescripts may continue to modify, add, or remove applicable field error code listings. As error information is updated, the table below is subject to change, and this implementation guide will be revised to provide all of the necessary details for displaying accurate error information within a timely manner.

Field #	Field Name	Possible Error Code(s)
0	Record Type	113
1	Record Sequence Number	N/A
2	Product	113
3	End Monitoring Date	107 128

Applicable Trailer Row Error Codes

The following table lists the possible error codes that could occur for each field.

Please be aware that over time, Surescripts may continue to modify, add, or remove applicable field error code listings. As error information is updated, the table below is subject to change, and this implementation guide will be revised to provide all of the necessary details for displaying accurate error information within a timely manner.

Note: All footer errors are warnings.

Field #	Field Name	Possible Error Code(s)
0	Record Type	113
1	Total Records	100 107 129

11. Comparison of Unique Identifiers: UUIDs, GUIDs, and OIDs

Identifier	Definition	Format	Example	Standard(s)	Usage	Key Differences
UUID (Universally Unique Identifier)	A 128-bit number used to uniquely identify information in computer systems.	Typically represented as 32 hexadecimal characters, displayed in five groups separated by hyphens (e.g., 123e4567-e89b-12d3-a456-426614174000).	550e8400-e29b-41d4-a716-446655440000	Defined by the RFC 4122 standard.	Commonly used in databases, distributed systems, and applications where unique identifiers are needed.	Universally unique, not tied to any specific platform.
GUID (Globally Unique Identifier)	Essentially the same as a UUID, but the term GUID is primarily used in Microsoft environments.	Identical to UUIDs, as GUIDs are a specific implementation of UUIDs.	550e8400-e29b-41d4-a716-446655440000	Also follows the RFC 4122 standard.	Widely used in Microsoft technologies, such as Windows, .NET, and COM (Component Object Model).	Same as UUID, but specific to Microsoft ecosystems.
OID (Object Identifier)	A globally unique identifier used to name objects in a hierarchical namespace.	Represented as a series of integers separated by dots (e.g., 1.3.6.1.4.1.343).	1.3.6.1.4.1.1466.115	Defined by the ITU-T X.660 and ISO/IEC 9834-1 standards.	Commonly used in network management (SNMP), LDAP, and other systems that require a hierarchical naming structure.	Hierarchical structure, different format, and used in specific protocols.

12. Disclaimers

Medication History for Populations

Based on HL7 FHIR release 4

Guide Disclaimer

In the event that the Participant chooses to make any software changes based upon recommendations in this guide, the Participant acknowledges and agrees that Surescripts Network shall bear no responsibility or liability for the Participant's changes or any effects thereof. The Participant shall also be required to transition to the new guide at such time as said guide is published, which may involve different or additional parameters than are published in this guide.

Examples Disclaimer

Examples provided throughout this guide are not intended to be all-inclusive. This pertains to example workflows, element-specific (field) examples, or message examples. Participants should not restrict coding to the examples used herein.

When developing, this guide should be used along with additional documentation referenced and applicable customary coding standards.

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Portions of this Guide utilize the HL7® FHIR® standard messaging release 4 as a baseline. In conjunction with this Surescripts Implementation Guide, participants should have a copy of the FHIR® standard document readily available for use with the transactions. Documentation can be obtained through HEALTH LEVEL SEVEN®.

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<https://www.hl7.org/fhir/license.html>

13. Document Change Log

▼ 2026-08-17

Section Title	Change Description
Process Overviews	- Renamed the subtopic Patient File Load Maintenance – Prescription Notifications to Patient File Load Maintenance and updated it to describe unique patient identification via PatientHashID. - Updated the subtopic Updating a Previously Enrolled Patient to align with the new unique patient criteria.

▼ 2026-08-06

Section Title	Change Description
N/A	N/A - Developer Portal - initial release