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# FHIR R4 RESTful API Documentation

## OneTouch EMR Product Version 3

<b>Standards:</b>	HL7® FHIR® Release 4 (R4) US Core Implementation Guide: v6.1.0 (USCDI v3) SMART App Launch 2.0.0 FHIR Bulk Data Access: v1.0.1
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<b>API Type:</b>	RESTful, SMART on FHIR-aligned
<b>Security:</b>	OAuth 2.0, TLS 1.2+ enforced
<b>Authorization Server:</b>	OneTouch EMR OAuth 2.0 Authorization Server
<b>OAuth Grant Types:</b>	Authorization Code (with PKCE), Refresh Token
<b>Audience:</b>	Third-party application developers
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## INTRODUCTION

This documentation is intended for third-party application developers, including patient-facing applications, seeking to access electronic health information through the OneTouch EMR FHIR R4 RESTful API.

The OneTouch EMR FHIR R4 RESTful API is certified to the requirements of 45 CFR §170.315(g)(10) and supports secure, standards-based access to electronic health information using HL7® FHIR® Release 4 (R4) and SMART on FHIR.

This API enables authorized applications to access a patient's electronic health record data, including all data elements required by the applicable United States Core Data for Interoperability (USCDI) version, to the extent permissible under applicable federal and state privacy laws.

Use of this API is subject to the terms and conditions described in the Terms and Conditions section of this document.

## IMPLEMENTATION INSTRUCTIONS

The OneTouch EMR FHIR R4 RESTful API is a read-only API that enables authorized third-party applications, including patient-facing applications, to retrieve electronic health information in accordance with the requirements of the United States Core Data for Interoperability (USCDI) v3 and the applicable US Core Implementation Guide.

The API supports standards-based access using HL7® FHIR® Release 4 (R4) and SMART on FHIR, and is certified to the requirements of 45 CFR §170.315(g)(10).

### Technical Requirements

To interact with the OneTouch EMR API, an application must be capable of:

- Sending and receiving requests over secure HTTP (HTTPS) with TLS version 1.2 or higher.
- Performing OAuth 2.0 authorization flows (including Authorization Code with PKCE)
- Generating and sending custom HTTP headers
- Parsing JSON-encoded responses

Common HTTP client libraries such as cURL, OpenSSL, or equivalent HTTPS-capable libraries may be used. No proprietary libraries or special configurations are required beyond the requirements described in this document.

All API responses are returned in JSON format using UTF-8 encoding.

### **API Endpoints and Metadata**

- **FHIR Base URL**

*https://{clientId}.onetouchemr.com/fhir/r4*

where *{clientId}* is the unique identifier associated with the OneTouch EMR client instance.

- **FHIR Capability Statement**

*{baseUrl}/metadata*

- **SMART on FHIR Configuration Metadata**

*{baseUrl}/well-known/smart-configuration*

- **SMART Style Endpoint**

*{baseUrl}/smart-style*

- **OpenID Connect Discovery Metadata**

*{baseUrl}/well-known/openid-configuration*

- **JSON Web Key Set (JWKS) Endpoint**

*{baseUrl}/well-known/jwk*

- **OAuth 2.0 Authorization Endpoint**

*{baseUrl}/oauth/authorization*

- **OAuth 2.0 Token Endpoint**

*{baseUrl}/oauth/token*

- **OAuth 2.0 Token Introspection Endpoint**

*{baseUrl}/oauth/introspect*

Not required for third-party application integration

- **OAuth 2.0 Bulk Data Access Token Endpoint**

*{baseUrl}/oauth/bulk-token*

### **Transport Layer Security (TLS) Requirements**

All communication with the OneTouch EMR FHIR R4 RESTful API must occur over HTTPS using Transport Layer Security (TLS) version 1.2 or higher. The OneTouch EMR API infrastructure enforces TLS 1.2 or higher at the server and load balancer levels. Connections attempting to use TLS versions lower than 1.2 are rejected during the TLS handshake and are not permitted to establish a connection with the API. This enforcement ensures that all data transmitted between client applications and the OneTouch EMR API is encrypted in accordance with current industry security standards and the requirements of 45 CFR §170.315(g)(10).

### **Request and Response Conventions**

- Request parameters are case-sensitive and must be provided in lowercase, consistent with the HL7 FHIR specification.
- Parameter order is not significant.
- All responses are returned as structured FHIR JSON resources.
- The OneTouch EMR FHIR R4 RESTful API supports read-only (GET-based) access and does not permit write, update, or delete operations.

### **Bulk Data Export Security**

- Bulk Data Export operations use asynchronous processing in accordance with the FHIR Bulk Data Access specification.
- The supported encryption algorithm for Bulk Data Export is **RS384** in accordance with the FHIR Bulk Data Access specification.

## **REQUIREMENTS FOR REGISTRATION**

To access the OneTouch EMR FHIR R4 RESTful API, an application must be registered with the OneTouch EMR Authorization Server.

API access is available to:

- Authorized applications developed by existing OneTouch EMR clients; and
- Authorized third-party applications that have been granted access credentials by an existing OneTouch EMR client.

Each application is issued unique OAuth 2.0 client credentials as part of the registration process. Access credentials are used solely for the purpose of authentication and authorization and must be protected in accordance with applicable security requirements.

Application registration and access are subject to the API Terms and Conditions described in this documentation.

## SMART APP LAUNCH & CLIENT AUTHENTICATION TYPES

### Supported App Launch Types

The OneTouch EMR FHIR R4 API supports the following SMART App Launch 2.0.0 launch types:

Launch Type	Description	Required Scope
Standalone Launch	App initiates the OAuth 2.0 flow independently, outside of any EHR session. Patient context is established during authorization.	launch/patient
EHR Launch	App is launched from within the OneTouch EMR interface. The EHR provides a launch token and patient/user context at startup.	launch (+ launch token from EHR)
Public Client Launch	App cannot securely store a client secret (e.g., SPA, mobile, desktop). Uses PKCE in lieu of a client secret. Compatible with Standalone or EHR Launch flows.	Same as applicable launch type above

### Supported Client Authentication Types

The following client authentication types are supported, consistent with SMART App Launch 2.0.0:

Authentication Type	Mechanism	Application Grant Type
Public with PKCE	No client secret. Uses Authorization Code with PKCE (S256).	Authorization Code
Confidential Symmetric	Client secret issued at registration. Authenticates using client_secret_basic or client_secret_post at the token endpoint.	Authorization Code
Confidential Asymmetric	Client authenticates using private_key_jwt (RFC 7523). Client signs a JWT assertion using its registered private key.	Authorization Code, Client Credentials

## API RATE LIMITING

The OneTouch EMR FHIR R4 RESTful API implements rate limiting using a token bucket algorithm. Rate limits are enforced to ensure system stability and fair usage. Rate limits vary based on the type of request.

### Single-Patient Read Requests

Applies to read interactions targeting a specific patient (e.g., GET /Patient/{id}, GET /Observation/{id}).

- Bucket capacity: 100 requests
- Refill rate: 10 requests per second
- Cost per request: 1 token

This allows:

- Short bursts of up to 100 requests
- Sustained rate of approximately 10 requests per second

### Search Requests

Applies to search interactions (e.g., GET /Observation?patient=123).

- Bucket capacity: 50 requests
- Refill rate: 5 requests per second
- Cost per request: 2 tokens

Because each search request consumes 2 tokens, this allows:

- Short bursts of up to 25 search requests
- Sustained rate of approximately 2–3 search requests per second

Search requests are limited more strictly due to higher processing cost.

## **Bulk Data Export Requests**

Applies to system-level Bulk Data Export operations.

- Bucket capacity: 2 requests
- Refill rate: 1 request every 5 minutes
- Cost per request: 1 token

This allows:

- Up to 2 bulk export requests in a short burst
- Sustained rate of 1 bulk export request every 5 minutes

### **Concurrency Limits**

A maximum of 2 Bulk Data Export jobs may be in progress concurrently per client application. If a client attempts to initiate a third concurrent bulk export job:

- The API will reject the request.
- An appropriate HTTP error response will be returned.

Clients must wait for one of the active jobs to complete before submitting a new bulk export request.

Bulk export operations are heavily rate-limited due to their resource intensity.

### **Rate Limit Behavior**

When a client exceeds the allowed rate:

- The API returns HTTP 429 (Too Many Requests).
- Clients should implement exponential backoff and retry after a delay.
- The Authorization Server or API may include Retry-After headers when applicable.

Rate limits are applied per client application and may also consider user context depending on the authorization flow.

## SUPPORTED PROFILES/CAPABILITIES

The OneTouch EMR FHIR R4 RESTful API supports the required capabilities defined in the [US Core Implementation Guide v6.1.0 \(FHIR R4, USCDI v3\)](#). The following FHIR resources and corresponding US Core profiles are supported.

*The API supports read-only (GET and SEARCH) interactions for the resources listed below.*

FHIR Resources	US Core Profile (FHIR R4)
<a href="#">AllergyIntolerance</a>	US Core AllergyIntolerance Profile
<a href="#">CarePlan</a>	US Core CarePlan Profile
<a href="#">CareTeam</a>	US Core CareTeam Profile
<a href="#">Condition</a>	US Core Condition Profile
<a href="#">Device</a>	US Core Implantable Device Profile
<a href="#">DiagnosticReport</a>	US Core DiagnosticReport Profile for Report and Note exchange, US Core DiagnosticReport Profile for Laboratory Results Reporting
<a href="#">DocumentReference</a>	US Core DocumentReference Profile
<a href="#">Encounter</a>	US Core Encounter Profile
<a href="#">Goal</a>	US Core Goal Profile
<a href="#">Immunization</a>	US Core Immunization Profile
<a href="#">Location</a>	US Core Location Profile
<a href="#">MedicationRequest</a>	US Core MedicationRequest Profile
<a href="#">Observation</a>	US Core Smoking Status Observation Profile, US Core Pediatric Weight for Height Observation Profile, US Core Laboratory Result Observation Profile, US Core Pediatric BMI for Age Observation Profile, US Core Pulse Oximetry Profile, US Core Pediatric Head Occipital-frontal Circumference Percentile Profile
<a href="#">Organization</a>	US Core Organization Profile

<a href="#">Patient</a>	US Core Patient Profile
<a href="#">Practitioner</a>	US Core Practitioner Profile
<a href="#">Procedure</a>	US Core Procedure Profile
<a href="#">Provenance</a>	US Core Provenance Profile

Supported data elements for each resource are documented in the corresponding resource-specific sections of this guide.

## US Core Implementation Guide Choices and References

The OneTouch EMR FHIR R4 RESTful API implements the US Core Implementation Guide Version 6.1.0 (FHIR R4) and supports the required profiles and interactions for access to USCDI v3 data elements.

The following implementation choices apply:

- Must Support Elements

All elements identified as “Must Support” in the applicable US Core profiles are supported by the API when such data exists in the underlying system.

- Reference Resolution

FHIR resource references may be resolved using standard FHIR RESTful interactions via the referenced resource endpoint.

- Provenance

Provenance resources are supported and may be retrieved using the `_revinclude=Provenance:target` search modifier where applicable.

- Narrative Support

FHIR resources returned by the API may include narrative content in the `resource.text` element when available.

- Search Parameters

The API supports the required search parameters defined by the US Core Implementation Guide for each supported resource. Where the US Core Implementation Guide allows multiple implementation choices, the OneTouch EMR API follows the standard FHIR R4 RESTful interaction model using GET and POST-based search operations.

## Common Search Capabilities

The OneTouch EMR FHIR R4 RESTful API supports the following common search capabilities for applicable resources. These capabilities apply across multiple supported US Core profiles and are not specific to a single resource.

### Pagination and Incremental Updates

The OneTouch EMR FHIR R4 RESTful API supports standard FHIR pagination and incremental update parameters for applicable search interactions, in accordance with the HL7® FHIR® specification.

### Pagination Parameters

The following pagination parameters are supported for search operations that return multiple results:

Parameter	Type	Description
_count	Number	Specifies the maximum number of resources to return per page
_page	Number	Specifies the page number of the result set

Example: Retrieve the first page of results with a page size of 10

```
GET /[resource]?_count=10&_page=1
```

Example: Retrieve the second page of results

```
GET /[resource]?_count=10&_page=2
```

The server may enforce maximum limits on the value of \_count.

### Incremental Update Parameter

Parameter	Type	Description
_since	DateTime	Returns only resources that have been created or updated since the specified date and time

The `_since` parameter evaluates the `meta.lastUpdated` element of each resource.

Example: Retrieve resources updated since January 1, 2024

```
GET /[resource]?_since=2024-01-01T00:00:00Z
```

### Response Behavior

- Search results are returned as a FHIR Bundle.
- Pagination links are provided in the Bundle link element using the relation values `self`, `next`, and `previous`, when applicable.
- The total number of matching resources may be included in `Bundle.total`.

## AllergyIntolerance

The [FHIR AllergyIntolerance resource](#) represents a clinical assessment of a patient's potential or confirmed allergy or intolerance to a substance.

**FHIR Resource:** AllergyIntolerance

**US Core Profile:** US Core AllergyIntolerance Profile (FHIR R4)

**Profile URL:** <https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-allergyintolerance.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/AllergyIntolerance](https://[ClientID].onetouchemr.com/fhir/r4/AllergyIntolerance)

## Supported Data Elements

Name	Comments
code	US Core Common substances for allergy and intolerance documentation including refutations (SNOMED CT and RXNORM) (USCDI v3 AllergyIntolerance Substance Medication and Drug Class Data Elements)
patient	Patient reference / Who is this sensitivity for
clinicalStatus	Allergy status (active, inactive, or resolved)
verificationStatus	Verification status (unconfirmed, confirmed, refuted, entered-in-error)
category	Allergy/Intolerance Category (food, medication, environment, or biologic)
reaction	Adverse Reaction Events linked to exposure to substance (USCDI v3 AllergyIntolerance Reaction Data Element)
reaction.manifestation	Clinical symptoms/signs associated with the Event (SNOMED CT)
reaction.severity	Allergy/Intolerance reaction severity (mild, moderate, or severe)

## Supported Interactions

The AllergyIntolerance resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/AllergyIntolerance/{id}
Search	GET	/AllergyIntolerance?[parameter={value}]
Search	POST	/AllergyIntolerance/_search

Create, update, and delete operations are not supported.

## Supported Search Parameters

Parameter	Type	Description
patient	Reference	Patient Identifier
_id	Identifier	Record Identifier

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/AllergyIntolerance/1/
```

Search by Patient

```
GET https://api.onetouchemr.com/fhir/r4/AllergyIntolerance?patient=1
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/AllergyIntolerance/_search
Content-Type: application/x-www-form-urlencoded

patient=1
```

Combined Parameters:

```
GET
https://api.onetouchemr.com/fhir/r4/AllergyIntolerance?_id=2&patient=1&_rev
include=Provenance:target
```

### Response

Read interactions return a single FHIR AllergyIntolerance resource conformant to the US Core AllergyIntolerance Profile.

Search interactions return a FHIR Bundle containing AllergyIntolerance resources conformant to the US Core AllergyIntolerance Profile.

Example Responses:

See [Appendix A.1 - AllergyIntolerance Read](#)

See [Appendix A.2 - AllergyIntolerance Search](#)

## CarePlan

The [FHIR CarePlan resource](#) represents a plan for delivering healthcare to a patient, group, or community over a period of time, outlining intended activities and goals that may address one or more specific conditions.

**FHIR Resource:** CarePlan

**US Core Profile:** US Core CarePlan Profile (FHIR R4)

**Profile URL:** <https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-careplan.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/CarePlan](https://[ClientID].onetouchemr.com/fhir/r4/CarePlan)

The following attributes are supported:

Name	Comments
text	Text narrative/summary
text.status	Text narrative status (additional or generated)
status	Care plan request status (active, completed, or on-hold)
intent	Care plan intent (proposal, plan, order, or option)
category	Category (assess-plan)
subject	Patient reference, who the care plan is for

## Supported Interactions

The CarePlan resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/CarePlan/{id}
Search	GET	/CarePlan?[parameter={value}]
Search	POST	/CarePlan/_search

Create, update, and delete operations are not supported.

## Supported Search Parameters

Parameter	Type	Description
patient	Reference	Patient Identifier
_id	Identifier	Record Identifier
category	Token	Category coding system and/or code. [system] is the category coding system: Supported values: <a href="https://hl7.org/fhir/us/core/STU6.1/CodeSystem-careplan-category.html">https://hl7.org/fhir/us/core/STU6.1/CodeSystem-careplan-category.html</a> [code] is the category code to lookup. Supported values: assess-plan If the system is not specified, the API will lookup the code from all the supported category coding systems.
patient+category		

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

## Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/CarePlan/plab-1
```

## Search by Patient

```
GET https://api.onetouchemr.com/fhir/r4/CarePlan?patient=2
```

## POST search

```
POST https://api.onetouchemr.com/fhir/r4/CarePlan/_search
Content-Type: application/x-www-form-urlencoded

patient=2
```

## Combined Parameters:

```
GET
https://api.onetouchemr.com/fhir/r4/CarePlan?_id=pfup-2&patient=2&_revinclud
e=Provenance:target
```

## Response

Read interactions return a single FHIR CarePlan resource conformant to the US Core CarePlan Profile.

Search interactions return a FHIR Bundle containing CarePlan resources conformant to the US Core CarePlan Profile.

## Example Responses:

See [Appendix A.3 - CarePlan Read](#)

See [Appendix A.4 - CarePlan Search](#)

## CareTeam

The [FHIR CareTeam resource](#) represents the individuals, teams, and organizations involved in the coordination and delivery of care for a patient or group, consistent with the USCDI Care Team data class.

**FHIR Resource:** CareTeam

**US Core Profile:** US Core CareTeam Profile (FHIR R4)

**Profile URL:** <https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-careteam.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/CareTeam](https://[ClientID].onetouchemr.com/fhir/r4/CareTeam)

The following attributes are supported:

Name	Comments
status	Care Team Status (active or inactive)
subject	Patient reference, who the care team is for
encounter	Encounter reference that the Care Team took part of
period	Time period that Care team covers
participant	Members of the Care Team
managingOrganization	Organization Responsible for the Care Team

### Supported Interactions

The CareTeam resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/CareTeam/{id}
Search	GET	/CareTeam?[parameter={value}]
Search	POST	/CareTeam/_search

Create, update, and delete operations are not supported.

### Supported Search Parameters

Parameter	Type	Description
patient	Reference	Patient Identifier
_id	Identifier	Record Identifier
status	Token	Valid values are 'proposed', 'active', 'suspended', 'inactive', 'entered-in-error'

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/CareTeam/1
```

Search by Patient

```
GET https://api.onetouchemr.com/fhir/r4/CareTeam?patient=2
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/CareTeam/_search
Content-Type: application/x-www-form-urlencoded

patient=2
```

Combined Parameters:

```
GET
https://api.onetouchemr.com/fhir/r4/CareTeam?status=inactive&patient=2&_rev
include=Provenance:target
```

### Response

Read interactions return a single FHIR CareTeam resource conformant to the US Core CareTeam Profile.

Search interactions return a FHIR Bundle containing CareTeam resources conformant to the US Core CareTeam Profile.

Example Responses:

See [Appendix A.5 - CareTeam Read](#)

See [Appendix A.6 - CareTeam Search](#)

## Condition

The [FHIR Condition resource](#) represents clinical conditions, problems, diagnoses, or health concerns that are relevant to a patient's care.

A Condition resource may represent one of the following categories::

- Problem List Item (USCDI Problem Data Class)
- Encounter Diagnosis
- Health Concern (USCDI Health Concern Data Class)

### Category and SDOH Support

In addition to the standard Condition categories, the OneTouch EMR FHIR R4 RESTful API supports Conditions that represent Social Determinants of Health (SDOH) in accordance with the US Core Condition Problems and Health Concerns Profile.

**FHIR Resource:** Condition

**US Core Profiles:** US Core Condition Encounter Diagnosis Profile (FHIR R4), US Core Condition Problems and Health Concerns Profile (FHIR R4)

### Profile URLs:

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-condition-encounter-diagnosis.html>,

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-condition-problems-health-concerns.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Condition](https://[ClientID].onetouchemr.com/fhir/r4/Condition)

The following attributes are supported:

Name	Comments
abatementDateTime	Date of resolution or remission
category	Condition category (problem-list-item, encounter-diagnosis, or

	health-concern). For Social Determinants of Health conditions, sdoh is used
clinicalStatus	Condition status (active, inactive, or resolved)
code	Condition Code (SNOMED CT or ICD-10)
encounter	Encounter reference
onsetDateTime	Date associated with the onset of the condition, if known
recordedDate	Date record was first recorded
subject	Patient reference
verificationStatus	Condition verification status (confirmed)

### Supported Interactions

The Condition resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Condition/{id}
Search	GET	/Condition?[parameter={value}]
Search	POST	/Condition/_search

Create, update, and delete operations are not supported.

### Supported Search Parameters

Parameter	Type	Description
patient	Reference	Patient Identifier
_id	Identifier	Record Identifier
category	Token	Condition category can be any of the following: problem-list-item, encounter-diagnosis, or health-concern

Additional search modifiers:

- \_revinclude=Provenance:target

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Condition/hc-1
```

Search by Patient

```
GET https://api.onetouchemr.com/fhir/r4/Condition?patient=2
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Condition/_search
Content-Type: application/x-www-form-urlencoded

patient=2
```

Combined Parameters:

```
GET
https://api.onetouchemr.com/fhir/r4/Condition?category=encounter-diagnosis&
patient=2&_revinclude=Provenance:target
```

### Response

Read interactions return a single FHIR Condition resource conformant to the US Core Condition Encounter Diagnosis Profile or the US Core Condition Problems and Health Concerns Profile, as determined by the Condition category.

Search interactions return a FHIR Bundle containing Condition resources conformant to the applicable US Core Condition profiles, which may include a mix of profiles when multiple categories are requested.

Example Responses:

See [Appendix A.7 - Condition Read](#)

See [Appendix A.8 - Condition Search](#)

### Coverage

The [FHIR Coverage resource](#) represents a patient's insurance or health plan coverage used to pay for healthcare services.

**FHIR Resource:** Coverage

**US Core Profile:** US Core Coverage Profile (FHIR R4)

**Profile URL:** <https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-coverage.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Coverage](https://[ClientID].onetouchemr.com/fhir/r4/Coverage)

The following attributes are supported:

Name	Comments
identifier:memberid	Member Id
status	Status ( active   cancelled   draft   entered-in-error )
type	Coverage category such as medical or accident
subscriberId	ID assigned to the subscriber
beneficiary	Plan beneficiary
relationship	Beneficiary relationship to the subscriber
period	Coverage start and end dates
payor	Issuer of the policy
class:group	Coverage group
class:plan	Coverage plan

### Supported Interactions

The Coverage resource supports read-only interactions.

Interaction	Method	Endpoint
-------------	--------	----------

Read	GET	/Coverage/{id}
Search	GET	/Coverage?[parameter={value}]
Search	POST	/Coverage/_search

Create, update, and delete operations are not supported.

### Supported Search Parameters

Parameter	Type	Description
patient	Reference	Patient Identifier
_id	Identifier	Record Identifier

Additional search modifiers:

- \_revinclude=Provenance:target

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Coverage/1
```

Search by Patient

```
GET https://api.onetouchemr.com/fhir/r4/Coverage?patient=1
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Coverage/_search
Content-Type: application/x-www-form-urlencoded
```

```
patient=1
```

## Response

Read interactions return a single FHIR Coverage resource conformant to the US Core Coverage Profile.

Search interactions return a FHIR Bundle containing Coverage resources conformant to the US Core Coverage Profile.

Example Responses:

See [Appendix A.9 - Coverage Read](#)

See [Appendix A.10 - Coverage Search](#)

## Device

The [FHIR Device resource](#) represents a physical medical device used in the care of a patient, including implantable devices, consistent with the USCDI Implantable Device data class.

**FHIR Resource:** Device

**US Core Profile:** US Core Implantable Device Profile (FHIR R4)

**Profile URL:**

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-implantable-device.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Device](https://[ClientID].onetouchemr.com/fhir/r4/Device)

The following attributes are supported:

Name	Comments
udiCarrier	Unique Device Identifier (UDI) Barcode string
status	Device status (active or inactive)
distinctIdentifier	The distinct identification string
deviceName	The name of the device as given by the manufacturer

type	Code for the kind or type of device (SNOMED CT)
patient	Patient Reference, to whom Device is affixed
manufactureDate	Date when the device was made
expirationDate	Date and time of expiry of this device (if applicable)
lotNumber	Lot number of manufacture
serialNumber	Serial number assigned by the manufacturer

### Supported Interactions

The Device resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Device/{id}
Search	GET	/Device?[parameter={value}]
Search	POST	/Device/_search

Create, update, and delete operations are not supported.

### Supported Search Parameters

Parameter	Type	Description
patient	Reference	Patient Identifier
_id	Identifier	Record Identifier

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Device/1
```

## Search by Patient

```
GET https://api.onetouchemr.com/fhir/r4/Device?patient=1
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Device/_search
```

```
Content-Type: application/x-www-form-urlencoded
```

```
patient=1
```

## Response

Read interactions return a single FHIR Device resource conformant to the US Core Implantable Device Profile.

Search interactions return a FHIR Bundle containing Device resources conformant to the US Core Implantable Device Profile.

Example Responses:

See [Appendix A.11 Device Read](#)

See [Appendix A.12 Device Search](#)

## DiagnosticReport

The [FHIR DiagnosticReport resource](#) represents the results and interpretation of diagnostic tests or investigations performed for a patient.

**FHIR Resource:** DiagnosticReport

**US Core Profiles:** US Core DiagnosticReport Profile for Report and Note exchange (FHIR R4), US Core DiagnosticReport Profile for Laboratory Results Reporting (FHIR R4)

### Profile URLs:

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-diagnosticreport-note.html>,

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-diagnosticreport-lab.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/DiagnosticReport](https://[ClientID].onetouchemr.com/fhir/r4/DiagnosticReport)

The following attributes are supported:

Name	Comments
encounter	Encounter reference, Health care event when test ordered
category	Diagnostic Report Category <ul style="list-style-type: none"> <li>● LP29684-5 for Radiology</li> <li>● LP29708-2 for Cardiology</li> <li>● LP7839-6 for Pathology Report</li> <li>● LP29693-6 for Laboratory Note</li> <li>● LAB for Laboratory Order Report/result)</li> </ul>
status	Report status (partial, preliminary, final, corrected, or unknown)
code	DiagnosticReport code (LOINC)
subject	Patient reference, the subject of the report
performer	Responsible Diagnostic Service
effectiveDateTime	Time of the report or note
issued	Date and time the report version was made
result	Lab result/observations
presentedForm	Entire report as issued

### Supported Interactions

The DiagnosticReport resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/DiagnosticReport/{id}
Search	GET	/DiagnosticReport?[parameter={value}]
Search	POST	/DiagnosticReport/_search

Create, update, and delete operations are not supported.

### Supported Search Parameters

Parameter	Type	Description
patient	Reference	Patient Identifier
_id	Identifier	Record Identifier
date	Date	Effective date in YYYY-MM-DD format
category	Token	<p>Category coding system and/or code. Where: [system] is the category coding system: Supported values: <a href="http://terminology.hl7.org/CodeSystem/v2-0074">http://terminology.hl7.org/CodeSystem/v2-0074</a> <a href="http://loinc.org">http://loinc.org</a></p> <p>[code] is the category code to lookup. Supported values: LAB (only supported for <a href="http://terminology.hl7.org/CodeSystem/v2-0074">http://terminology.hl7.org/CodeSystem/v2-0074</a> system) LP29684-5 (for Radiology) LP29708-2 (for Cardiology) LP7839-6 (for Pathology)</p> <p>If the system is not specified, the API will lookup the code from all the supported category coding systems.</p>
code	Token	<p>Report coding system and/or code. Where: [system] is the report coding system: Supported value: <a href="http://loinc.org">http://loinc.org</a></p> <p>[code] is the LOINC code values of the report.</p> <p>If the system is not specified, the API will use <a href="http://loinc.org">http://loinc.org</a>.</p>

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/DiagnosticReport/rptnote-5
```

Search by Patient

```
GET https://api.onetouchemr.com/fhir/r4/DiagnosticReport?patient=1
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/DiagnosticReport/_search
Content-Type: application/x-www-form-urlencoded

patient=1
```

## Response

Read interactions return a single FHIR DiagnosticReport resource conformant to either the US Core DiagnosticReport Profile for Report and Note Exchange or the US Core DiagnosticReport Profile for Laboratory Results Reporting, as applicable.

Search interactions return a FHIR Bundle containing DiagnosticReport resources conformant to one or more of the supported US Core DiagnosticReport profiles.

Example Responses:

See [Appendix A.13 DiagnosticReport Read](#)

See [Appendix A.14 DiagnosticReport Search](#)

## DocumentReference

The [FHIR DocumentReference resource](#) represents a reference to a clinical document, note, or other binary content associated with a patient, enabling the document to be indexed and accessed within a healthcare system.

**FHIR Resource:** DocumentReference

**US Core Profile:** US Core DocumentReference Profile (FHIR R4)

**Profile URL:**

<https://www.hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-documentreference.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/DocumentReference](https://[ClientID].onetouchemr.com/fhir/r4/DocumentReference)

The following attributes are supported:

Name	Comments
identifier	Other identifiers for the document
status	Status (current, superseded or entered-in-error)
type	US Core DocumentReference Type LOINC <ul style="list-style-type: none"><li>● 18842-5 for Discharge summary</li><li>● 11488-4 for Consult note</li><li>● 34117-2 for History and physical note</li><li>● 11506-3 for Progress note</li><li>● 28570-0 for Procedure note</li><li>● 11502-2 for Laboratory report</li><li>● 18748-4 for Diagnostic Imaging Study</li><li>● 11526-1 for Pathology Report Narrative</li></ul>
category	US Core DocumentReference Category (clinical-note)
subject	Patient reference
date	Date when document reference was created
author	Practitioner, Patient, or Organization Reference, the author of the document
custodian	Organization Reference, Organization which maintains the document
context	Clinical context of document, encounter
content	Actual Document referenced

**Supported Interactions**

The DocumentReference resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/DocumentReference/{id}

Search	GET	/DocumentReference?[parameter={value}]
Search	POST	/DocumentReference/_search

Create, update, and delete operations are not supported.

### Supported Search Parameters

Parameter	Type	Description
patient	Reference	Patient Identifier
_id	Identifier	Record Identifier
date	Date	Effective date in YYYY-MM-DD format
category	Token	<p>Category: coding system and/or code.            [system] is the category coding system: Supported values:  <a href="http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category">http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category</a>            [code] is the intent code to lookup. Supported values:            clinical-note</p> <p>If the system is not specified, the API will lookup the code from all the supported category coding systems.</p>
type	Token	<p>Type: coding system and/or code.</p> <p>[system] is the type coding system: Supported values:  <a href="http://loinc.org">http://loinc.org</a></p> <p>[code] is the LOINC code values of the Clinical Note types. Valid values:</p> <ul style="list-style-type: none"> <li>● 18842-5 for Discharge summary</li> <li>● 11488-4 for Consult note</li> <li>● 34117-2 for History and physical note</li> <li>● 11506-3 for Progress note</li> <li>● 28570-0 for Procedure note</li> <li>● 11502-2 for Laboratory report</li> <li>● 18748-4 for Diagnostic Imaging Study</li> <li>● 11526-1 for Pathology Report Narrative</li> </ul> <p>If the system is not specified, the API will lookup the code from all the supported type coding systems.</p>

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/DocumentReference/pn-1
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/DocumentReference?type=11488-4
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/DocumentReference/_search
Content-Type: application/x-www-form-urlencoded

type=11488-4
```

### Response

Read interactions return a single FHIR DocumentReference resource conformant to the US Core DocumentReference Profile.

Search interactions return a FHIR Bundle containing DocumentReference resources conformant to the US Core DocumentReference Profile.

Example Responses:

See [Appendix A.15 DocumentReference Read](#)

See [Appendix A.16 DocumentReference Search](#)

## Encounter

The [FHIR Encounter resource](#) represents an interaction between a patient and healthcare provider(s) for the purpose of delivering healthcare services or assessing a patient's health status.

**FHIR Resource:** Encounter

**US Core Profile:** US Core Encounter Profile (FHIR R4)

**Profile URL:** <https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-encounter.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Encounter](https://[ClientID].onetouchemr.com/fhir/r4/Encounter)

The following attributes are supported:

Name	Comments
identifier	Identifier(s) by which this encounter is known
status	Encounter Status
class	Classification of the patient encounter. This is always set to AMB for ambulatory
type	Encounter Type Code (SNOMED CT or CPT)
subject	Patient Reference
period	The start and end time of the encounter
participant	List of participants involved in the encounter
location	List of locations where the patient has been
serviceProvider	The organization (facility) responsible for this encounter
reasonCode	Coded reason the encounter takes place
hospitalization	Details about the admission to a healthcare service

## Supported Interactions

The Encounter resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Encounter/{id}
Search	GET	/Encounter?[parameter={value}]
Search	POST	/Encounter/_search

Create, update, and delete operations are not supported.

Search Parameters:

Parameter	Type	Description
patient	Reference	Patient Identifier
_id	Identifier	Record identifier
date	Date	Encounter date in YYYY-MM-DD format

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Encounter/1
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/Encounter?patient=2
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Encounter/_search
Content-Type: application/x-www-form-urlencoded

patient=2
```

## Response

Read interactions return a single FHIR Encounter resource conformant to the US Core Encounter Profile.

Search interactions return a FHIR Bundle containing Encounter resources conformant to the US Core Encounter Profile.

Example Responses:

See [Appendix A.17 Encounter Read](#)

See [Appendix A.18 Encounter Search](#)

## Goal

The [FHIR Goal resource](#) represents a desired health outcome or target state for a patient that is intended to be achieved over a period of time.

**FHIR Resource:** Goal

**US Core Profile:** US Core Goal Profile (FHIR R4)

**Profile URL:** <https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-goal.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Goal](https://[ClientID].onetouchemr.com/fhir/r4/Goal)

The following attributes are supported:

Name	Comments
lifecycleStatus	Goal Life cycle status (active, completed, on-hold, or cancelled)
description	Code or text describing goal
subject	Patient reference who this goal is intended for

startDate	When goal pursuit begins/start
target	Target outcome for the goal

## Supported Interactions

The Goal resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Goal/{id}
Search	GET	/Goal?[parameter={value}]
Search	POST	/Goal/_search

Create, update, and delete operations are not supported.

Search Parameters:

Parameter	Type	Description
patient	Reference	Patient Identifier
_id	Identifier	Record identifier

Additional search modifiers:

- \_revinclude=Provenance:target

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

## Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Goal/1
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/Goal?patient=3
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Goal/_search
Content-Type: application/x-www-form-urlencoded

patient=3
```

## Response

Read interactions return a single FHIR Goal resource conformant to the US Core Goal Profile.

Search interactions return a FHIR Bundle containing Goal resources conformant to the US Core Goal Profile.

Example Responses:

See [Appendix A.19 Goal Read](#)

See [Appendix A.20 Goal Search](#)

## Immunization

The [FHIR Immunization resource](#) represents the administration of a vaccine to a patient, including both current and historical immunization events.

**FHIR Resource:** Immunization

**US Core Profile:** US Core Immunization Profile (FHIR R4)

**Profile URL:** <https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-immunization.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Immunization](https://[ClientID].onetouchemr.com/fhir/r4/Immunization)

The following attributes are supported:

Name	Comments
status	Status (completed or not-done)
occurrenceDateTime	Vaccine administration date

vaccineCode	Vaccine administered code (CVX)
patient	Patient reference, who was immunized
primarySource	Indicates context the data was recorded in
encounter	Encounter immunization was part of

## Supported Interactions

The Immunization resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Immunization/{id}
Search	GET	/Immunization?[parameter={value}]
Search	POST	/Immunization/_search

Create, update, and delete operations are not supported.

Search Parameters:

Parameter	Type	Description
patient	Reference	Patient Identifier
_id	Identifier	Record identifier

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

## Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Immunization/1
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/Immunization?patient=1
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Immunization/_search
Content-Type: application/x-www-form-urlencoded

patient=1
```

## Response

Read interactions return a single FHIR Immunization resource conformant to the US Core Immunization Profile.

Search interactions return a FHIR Bundle containing Immunization resources conformant to the US Core Immunization Profile.

Example Responses:

See [Appendix A.21 Immunization Read](#)

See [Appendix A.22 Immunization Search](#)

## Location

The FHIR Location resource represents a physical place where healthcare services are provided or where healthcare-related activities occur.

**FHIR Resource:** Location

**US Core Profile:** US Core Location Profile (FHIR R4)

**Profile URL:** <https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-location.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Location](https://[ClientID].onetouchemr.com/fhir/r4/Location)

The following attributes are supported:

Name	Comments
identifier	Unique code or number identifying the location to its users
status	Status (active, inactive, or suspended)
name	Location name
telecom	Contact details of the location
address	Physical location
managingOrganization	Organization responsible for provisioning and upkeep

### Supported Interactions

The Location resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Location/{id}
Search	GET	/Location?[parameter={value}]
Search	POST	/Location/_search

Create, update, and delete operations are not supported.

Search Parameters:

Parameter	Type	Description
_id	Identifier	Record identifier
name	String	Location name
address	String	Location address

Additional search modifiers:

- `_reinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

## Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Location/1
```

Search by type:

```
GET  
https://api.onetouchemr.com/fhir/r4/Location?name=Neighborhood+Physicians+P  
ractice
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Location/_search  
Content-Type: application/x-www-form-urlencoded  
  
name=Neighborhood+Physicians+Practice
```

## Response

Read interactions return a single FHIR Location resource conformant to the US Core Location Profile.

Search interactions return a FHIR Bundle containing Location resources conformant to the US Core Location Profile.

Example Responses:

See [Appendix A.23 Location Read](#)

See [Appendix A.24 Location Search](#)

## MedicationDispense

The [FHIR MedicationDispense resource](#) represents the dispensing of a medication to a patient, including information about the medication supplied and the quantity dispensed.

**FHIR Resource:** MedicationDispense

**US Core Profile:** US Core MedicationDispense Profile (FHIR R4)

**Profile URL:**

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-medicationdispense.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/MedicationDispense](https://[ClientID].onetouchemr.com/fhir/r4/MedicationDispense)

The following attributes are supported:

Name	Comments
status	Status (preparation, in-progress, cancelled, on-hold, completed, entered-in-error, stopped, declined, unknown)
medicationCodeableConcept	What medication was supplied
subject	Patient the medication was dispensed for
authorizingPrescription	Medication order that authorizes the dispense
performer.actor	Who performed the dispense
type	Supply type. Always set to Refill
quantity	Amount dispensed
whenHandedOver	Date when the product was given out or mailed
dosageInstruction	How the medication is to be used by the patient or administered by the caregiver

### Supported Interactions

The MedicationDispense resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/MedicationDispense/{id}
Search	GET	/MedicationDispense?[parameter={value}]
Search	POST	/MedicationDispense/_search

Create, update, and delete operations are not supported.

Search Parameters:

Parameter	Type	Description
patient	Reference	Patient Identifier

_id	Identifier	Record identifier
-----	------------	-------------------

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/MedicationDispense/1
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/MedicationDispense?patient=5
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/MedicationDispense/_search
Content-Type: application/x-www-form-urlencoded

patient=5
```

### Response

Read interactions return a single FHIR MedicationDispense resource conformant to the US Core MedicationDispense Profile.

Search interactions return a FHIR Bundle containing MedicationDispense resources conformant to the US Core MedicationDispense Profile.

Example Responses:

See [Appendix A.25 MedicationDispense Read](#)

See [Appendix A.26 MedicationDispense Search](#)

### MedicationRequest

The [FHIR MedicationRequest resource](#) represents an order or prescription for a medication to be supplied or administered to a patient.

**FHIR Resource:** MedicationRequest

**US Core Profile:** US Core MedicationRequest Profile (FHIR R4)

**Profile URL:**

<https://www.hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-medicationrequest.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/MedicationRequest](https://[ClientID].onetouchemr.com/fhir/r4/MedicationRequest)

The following attributes are supported:

Name	Comments
status	Status (active, on-hold, cancelled, completed, or stopped)
intent	Request intent (proposal, plan, order, original-order, reflex-order, filler-order, instance-order, or option)
reportedBoolean	Reported rather than primary record
contained	Medication to be taken
subject	Patient reference
authoredOn	When request was initially authored
requester	Who/What requested the Request
dosageInstruction	How the medication should be taken
encounter	Encounter created as part of encounter/admission/stay

### Supported Interactions

The MedicationRequest resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/MedicationRequest/{id}
Search	GET	/MedicationRequest?[parameter={value}]
Search	POST	/MedicationRequest/_search

Create, update, and delete operations are not supported.

#### Search Parameters:

Parameter	Type	Description
_id	Identifier	Record identifier
patient	Identifier	Patient Identifier
intent		<p>Intent: coding system and/or code.  [System] Supported values:  <a href="http://hl7.org/fhir/CodeSystem/medicationrequest-intent">http://hl7.org/fhir/CodeSystem/medicationrequest-intent</a></p> <p>[code] is the intent code to lookup. Supported values are:</p> <ul style="list-style-type: none"> <li>proposal</li> <li>plan</li> <li>order</li> <li>original-order</li> <li>reflex-order</li> <li>filler-order</li> <li>instance-order</li> <li>option</li> </ul> <p>If the system is not specified, the API will lookup the code from all the supported intent coding systems.  Multiple intents can be specified by separating each one with a comma (,).</p>
status		<p>Status Code: Supported values are:</p> <ul style="list-style-type: none"> <li>active</li> <li>on-hold</li> <li>cancelled</li> <li>completed</li> <li>entered-in-error</li> <li>stopped</li> </ul>

		draft unknown Multiple statuses can be specified by separating each one with a comma (,).
--	--	---

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/MedicationRequest/6
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/MedicationRequest?patient=1
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/MedicationRequest/_search
Content-Type: application/x-www-form-urlencoded

patient=1
```

### Response

Read interactions return a single FHIR MedicationRequest resource conformant to the US Core MedicationRequest Profile.

Search interactions return a FHIR Bundle containing MedicationRequest resources conformant to the US Core MedicationRequest Profile.

Example Responses:

See [Appendix A.27 MedicationRequest Read](#)

See [Appendix A.28 MedicationRequest Search](#)

## Observation

The [FHIR Observation resource](#) represents measurements, test results, and other clinical or demographic findings recorded for a patient.

### Observation Categories Supported

Observation resources in OneTouch EMR are categorized as follows:

- Laboratory Results (US Core Laboratory Result Observation Profile)
- Vital Signs (US Core Vital Signs Observation Profile)
- Social History (US Core Social History Observation Profile)
- Survey (US Core Observation Screening and Assessment Profile)

Within the **Vital Signs** category, the following LOINC-coded observations are supported:

- Diastolic Blood Pressure (LOINC 8462-4)
- Systolic Blood Pressure (LOINC 8480-6)
- Body Height (LOINC 8302-2)
- Body Weight (LOINC 29463-7)
- Heart Rate (LOINC 8867-4)
- Respiratory Rate (LOINC 9279-1)
- Body Temperature (LOINC 8310-5)
- Pulse Oximetry (LOINC 59408-5)
- Inhaled Oxygen Flow Rate (LOINC 3151-8)
- Inhaled Oxygen Concentration (LOINC 3150-0)
- Pediatric Weight for Height (LOINC 77606-2)
- Pediatric BMI for Age (LOINC 59576-9)
- Pediatric Head Occipital Frontal Circumference Percentile (LOINC 8289-1)

Within the **Social History** category, the following observation types are supported:

- Pregnancy Status
- Pregnancy Intent
- Occupation
- Sexual Orientation
- Smoking Status

Within the **Survey** category, the following observation types are supported:

- Social Determinants of Health (SDOH)
- Disability Status
- Cognitive Status
- Functional Status

**FHIR Resource:** Observation

**US Core Profiles:**

US Core Laboratory Result Observation Profile

US Core Observation Pregnancy Status Profile

US Core Observation Pregnancy Intent Profile

US Core Observation Occupation Profile

US Core Respiratory Rate Profile

US Core Simple Observation Profile

US Core Heart Rate Profile

US Core Body Temperature Profile

US Core Pediatric Weight for Height Observation Profile

US Core Pulse Oximetry Profile

US Core Smoking Status Observation Profile

US Core Observation Sexual Orientation Profile

US Core Head Circumference Profile

US Core Body Height Profile

US Core BMI Profile

US Core Observation Screening Assessment Profile

US Core Blood Pressure Profile

US Core Observation Clinical Result Profile

US Core Pediatric BMI for Age Observation Profile

US Core Pediatric Head Occipital Frontal Circumference Percentile Profile

US Core Body Weight Profile

US Core Vital Signs Profile

**Profile URLs:**

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-lab.html>

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-pregnancystatus.html>

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-pregnancyintent.html>

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-occupation.html>

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-respiratory-rate.html>

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-simple-observation.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-heart-rate.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-body-temperature.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-pediatric-weight-for-height.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-pulse-oximetry.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-smokingstatus.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-sexual-orientation.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-head-circumference.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-body-height.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-bmi.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-screening-assessment.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-blood-pressure.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-clinical-result.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-pediatric-bmi-for-age.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-head-occipital-frontal-circumference-percentile.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-body-weight.html>  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-vital-signs.html>

Endpoint URI: [https://\[ClientID\].onetouchemr.com/fhir/r4/Observation](https://[ClientID].onetouchemr.com/fhir/r4/Observation)

The following attributes are supported:

Name	Comments
category	Classification of type of observation (social-history, vital-signs, or laboratory)
subject	Who and/or what the observation is about
code	Observation code
encounter	Encounter reference
status	Observation status (preliminary, final, or corrected)
issued	Date/Time this version was made available
effectiveDateTime	Clinically relevant time/time-period for observation
effectivePeriod	Clinically relevant time/time-period for observation
valueCodeableConcept	Result value

dataAbsentReason	Why the result is missing
component	Component observations
performer	Who is responsible for the observation
hasMember	Reference to panel members or multi-select responses or multi-select responses
derivedFrom	Related Observation(s) or other resource the observation is made from

### Supported Interactions

The Observation resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Observation/{id}
Search	GET	/Observation?[parameter={value}]
Search	POST	/Observation/_search

Create, update, and delete operations are not supported.

Search Parameters:

Parameter	Type	Description
_id	Identifier	Record identifier
patient	Reference	Patient Identifier
date	Date	Observation date in YYYY-MM-DD format
category		<p>Category coding system and/or code. Where: [system] is the category coding system: Supported values:</p> <p><a href="http://terminology.hl7.org/CodeSystem/observation-category">http://terminology.hl7.org/CodeSystem/observation-category</a></p>

		<p>[code] is the category code to lookup. Supported values:</p> <ul style="list-style-type: none"> <li>● laboratory</li> <li>● social-history</li> <li>● survey</li> <li>● vital-signs</li> </ul> <p>If the system is not specified, the API will use <a href="http://loinc.org">http://loinc.org</a>.</p>
code		<p>Observation coding system and/or code. Where: [system] is the report coding system: Supported value: <a href="http://loinc.org">http://loinc.org</a></p> <p>[code] is the LOINC code values of the report.</p> <p>If the system is not specified, the API will use <a href="http://loinc.org">http://loinc.org</a>.</p>

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Observation/weight-4
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/Observation?category=laboratory
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Observation/_search
```

Content-Type: application/x-www-form-urlencoded

category=laboratory

## Response

Read interactions return a single FHIR Observation resource conformant to one of the supported US Core Observation profiles, as determined by the Observation category and code.

Search interactions return a FHIR Bundle containing Observation resources conformant to one or more of the supported US Core Observation profiles, which may include a mix of profiles when multiple categories are requested.

Example Responses:

See [Appendix A.29 Observation Read](#)

See [Appendix A.30 Observation Search](#)

## Organization

The [FHIR Organization resource](#) represents a healthcare organization or other entity involved in the provision, management, or payment of healthcare services.

## Implementation Note

Within OneTouch EMR, a single Organization resource represents the client practice operating the system. Additional Organization resources represent pharmacies, and insurance companies or payers stored in the client's database.

**FHIR Resource:** Organization

**US Core Profile:** US Core Organization Profile (FHIR R4)

**Profile URL:** <https://www.hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-organization.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Organization](https://[ClientID].onetouchemr.com/fhir/r4/Organization)

The following attributes are supported:

Name	Comments
identifier	Identifies this organization across multiple systems
active	Whether the organization's record is still in active use
name	Name used for the organization
type	Organization Type (Healthcare Provider or Insurance Company)
address	Address for the organization
telecom	Contact detail for the organization

### Supported Interactions

The Organization resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Organization/{id}
Search	GET	/Organization?[parameter={value}]
Search	POST	/Organization/_search

Create, update, and delete operations are not supported.

Search Parameters:

Parameter	Type	Description
_id	Identifier	Record identifier
name	String	Organization name
address	String	Organization address

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

## Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Organization/1
```

Search by type:

```
GET  
https://api.onetouchemr.com/fhir/r4/Organization?name=example+payer+organization
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Organization/_search  
Content-Type: application/x-www-form-urlencoded  
  
name=example+payer+organization
```

## Response

Read interactions return a single FHIR Organization resource conformant to the US Core Organization Profile.

Search interactions return a FHIR Bundle containing Organization resources conformant to the US Core Organization Profile.

Example Responses:

See [Appendix A.31 Organization Read](#)

See [Appendix A.32 Organization Search](#)

## Patient

The [FHIR Patient resource](#) represents an individual receiving or registered to receive healthcare services.

**FHIR Resource:** Patient

**US Core Profile:** US Core Patient Profile (FHIR R4)

**Profile URL:** <https://www.hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-patient.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Patient](https://[ClientID].onetouchemr.com/fhir/r4/Patient)

The following attributes are supported:

Name	Comments
identifier	Identifier for this patient
name	Patient name
telecom	Patient's contact info
gender	Gender
birthdate	Date of birth
deceasedDateTime	Indicates if the individual is deceased or not
address	Patient's address
maritalStatus	Marital status
communication	Preferred language
us-core-race extension	Race
us-core-ethnicity extension	Ethnicity
us-core-sex extension	sex

us-core-tribal-affiliation extension	Tribal Affiliation
--------------------------------------	--------------------

## Supported Interactions

The Patient resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Patient/{id}
Search	GET	/Patient?[parameter={value}]
Search	POST	/Patient/_search

Create, update, and delete operations are not supported.

Search Parameters:

Parameter	Type	Description
_id	Identifier	Record identifier
birthdate	Date	Patient's birth date in YYYY-MM-DD format
gender	Token	male, female, unknown
name	String	Patient name
identifier		<p>[system][code] Where:            [system] is the identifier system. Supported Identifier systems are:</p> <p>https://[PRACTICE_ID].onetouchemr.com for MRN            http://hl7.org/fhir/sid/us-ssn for SSN or Social Security Number</p> <p>[code] is the identifier code to lookup</p> <p><i>If system is not specified, the API will lookup the code from all the supported identifier</i></p>

Additional search modifiers:

- \_revinclude=Provenance:target

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Patient/1
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/Patient?name=john
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Patient/_search
Content-Type: application/x-www-form-urlencoded

name=john
```

### Response

Read interactions return a single FHIR Patient resource conformant to the US Core Patient Profile.

Search interactions return a FHIR Bundle containing Patient resources conformant to the US Core Patient Profile.

Example Responses:

See [Appendix A.33 Patient Read](#)

See [Appendix A.34 Patient Search](#)

## Practitioner

The [FHIR Practitioner resource](#) represents an individual healthcare professional involved in the provision of care.

**FHIR Resource:** Practitioner

**US Core Profile:** US Core Practitioner Profile (FHIR R4)

**Profile URL:** <https://www.hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-practitioner.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Practitioner](https://[ClientID].onetouchemr.com/fhir/r4/Practitioner)

The following attributes are supported:

Name	Comments
identifier	An identifier for the person
name	The name(s) associated with the practitioner

## Supported Interactions

The Practitioner resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Practitioner/{id}
Search	GET	/Practitioner?[parameter={value}]
Search	POST	/Practitioner/_search

Create, update, and delete operations are not supported.

Search Parameters:

Parameter	Type	Description
_id	Identifier	Record identifier
name	String	Practitioner name

identifier	Token	<p>Identifier system and/or code. Where: [system] is the identifier system. Supported Identifier systems are:</p> <p>https://[PRACTICE_ID].onetouchemr.com for User ID http://hl7.org.fhir/sid/us-npi for NPI or National Provider Identifier</p> <p>[code] is the identifier code to lookup</p> <p>If the system is not specified, the API will lookup the code from all the supported identifier systems.</p>
------------	-------	---

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Practitioner/2
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/Practitioner?name=jane
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Practitioner/_search
Content-Type: application/x-www-form-urlencoded
```

```
name=jane
```

## Response

Read interactions return a single FHIR Practitioner resource conformant to the US Core Practitioner Profile.

Search interactions return a FHIR Bundle containing Practitioner resources conformant to the US Core Practitioner Profile.

Example Responses:

See [Appendix A.35 Practitioner Read](#)

See [Appendix A.36 Practitioner Search](#)

## Procedure

The [FHIR Procedure resource](#) represents an action performed on or for a patient as part of the delivery of healthcare.

**FHIR Resource:** Procedure

**US Core Profile:** US Core Procedure Profile (FHIR R4)

**Profile URL:** <https://www.hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-procedure.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Procedure](https://[ClientID].onetouchemr.com/fhir/r4/Procedure)

The following attributes are supported:

Name	Comments
subject	Who the procedure was performed on
status	Procedure status (unknown, preparation, or completed)
code	Procedure codes (SNOMED CT, CPT)
performedDateTime	When the procedure was performed
encounter	Encounter context when the procedure was performed

basedOn	Request that this procedure was based on
---------	--

## Supported Interactions

The Procedure resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Procedure/{id}
Search	GET	/Procedure?[parameter={value}]
Search	POST	/Procedure/_search

Create, update, and delete operations are not supported.

Search Parameters:

Key	Type	Description
_id	Identifier	Record identifier
date	Date	Procedure date in YYYY-MM-DD format
patient	Reference	Patient ID or patient reference

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

## Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Procedure/planproc-1
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/Procedure?date=2011-10-05
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Procedure/_search
Content-Type: application/x-www-form-urlencoded

date=2011-10-05
```

### Response

Read interactions return a single FHIR Procedure resource conformant to the US Core Procedure Profile.

Search interactions return a FHIR Bundle containing Procedure resources conformant to the US Core Procedure Profile.

Example Responses:

See [Appendix A.37 Procedure Read](#)

See [Appendix A.38 Procedure Search](#)

### Provenance

The [FHIR Provenance resource](#) represents information about the origin, authorship, and history of a resource, including who created, modified, or transmitted it.

**FHIR Resource:** Provenance

**US Core Profile:** US Core Provenance Profile (FHIR R4)

**Profile URL:** <https://www.hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-provenance.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Provenance](https://[ClientID].onetouchemr.com/fhir/r4/Provenance)

The following attributes are supported:

Name	Comments
target	The Resource this Provenance record supports

recorded	Timestamp when the activity was recorded / updated
agent	Actor involved

### Supported Interactions

The Provenance resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Provenance/{id}

Create, update, and delete operations are not supported.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Provenance/allergy-1
```

### Response

Read interactions return a single FHIR Provenance resource conformant to the US Core Provenance Profile.

Example Response:

See [Appendix A.39 Provenance Read](#)

### RelatedPerson

The [FHIR RelatedPerson resource](#) represents an individual who has a personal or non-professional relationship with a patient.

**FHIR Resource:** RelatedPerson

**US Core Profile:** US Core RelatedPerson Profile (FHIR R4)

**Profile URL:**

<https://www.hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-relatedperson.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/RelatedPerson](https://[ClientID].onetouchemr.com/fhir/r4/RelatedPerson)

The following attributes are supported:

Name	Comments
active	Whether this related person's record is in active use
patient	The patient this person is related to
relationship	The nature of the relationship
name	A name associated with the person
telecom	A contact detail for the person
address	Address where the related person can be contacted or visited

### Supported Interactions

The RelatedPerson resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/RelatedPerson/{id}
Search	GET	/RelatedPerson?[parameter={value}]
Search	POST	/RelatedPerson/_search

Create, update, and delete operations are not supported.

Search Parameters:

Parameter	Type	Description
-----------	------	-------------

_id	Identifier	Record identifier
patient	Reference	Patient ID or patient reference

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

### Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/RelatedPerson/1
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/RelatedPerson?patient=4
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/RelatedPerson/_search
Content-Type: application/x-www-form-urlencoded

patient=4
```

### Response

Read interactions return a single FHIR RelatedPerson resource conformant to the US Core RelatedPerson Profile.

Search interactions return a FHIR Bundle containing RelatedPerson resources conformant to the US Core RelatedPerson Profile.

Example Responses:

See [Appendix A.40 RelatedPerson Read](#)

See [Appendix A.41 RelatedPerson Search](#)

## ServiceRequest

The [FHIR ServiceRequest resource](#) represents a request or order for a healthcare service to be performed for a patient.

**FHIR Resource:** ServiceRequest

**US Core Profile:** US Core ServiceRequest Profile (FHIR R4)

**Profile URL:**

<https://www.hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-servicerequest.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/ServiceRequest](https://[ClientID].onetouchemr.com/fhir/r4/ServiceRequest)

The following attributes are supported:

Name	Comments
status	The current state of the service request (draft, active, on-hold, revoked, completed, entered-in-error, unknown)
intent	Indicates the level of authority of the request (e.g., proposal, plan, order)
category	Indicates the general classification of the requested service using a US Core–defined category code. In this implementation, the category element is populated only for Social Determinants of Health (SDOH) service requests.
code	The specific service or procedure being requested, typically represented using a coded value
subject	Reference to the patient for whom the service is requested
occurrencePeriod	The date or time period during which the requested service is intended to occur
authoredOn	The date when the service request was created
requester	The practitioner or organization responsible for initiating the

	request
reasonCode	The coded clinical reason for requesting the service
reasonreference	Reference to a Condition, Observation, or other resource that justifies the request

## Supported Interactions

The ServiceRequest resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/ServiceRequest/{id}
Search	GET	/ServiceRequest?[parameter={value}]
Search	POST	/ServiceRequest/_search

Create, update, and delete operations are not supported.

Search Parameters:

Parameter	Type	Description
_id	Identifier	Record identifier
patient	Reference	Patient ID or patient reference
category	Token	ServiceRequest category, only sdoh currently supported
code	Token	Code for the service/procedure being requested
authored	Date	Date the ServiceRequested was created

Additional search modifiers:

- `_revinclude=Provenance:target`

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

## Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/ServiceRequest/planproc-1
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/ServiceRequest?patient=3
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/ServiceRequest/_search
Content-Type: application/x-www-form-urlencoded

patient=3
```

## Response

Read interactions return a single FHIR ServiceRequest resource conformant to the US Core ServiceRequest Profile.

Search interactions return a FHIR Bundle containing ServiceRequest resources conformant to the US Core ServiceRequest Profile.

Example Responses:

See [Appendix A.42 ServiceRequest Read](#)

See [Appendix A.43 ServiceRequest Search](#)

## Specimen

The [FHIR Specimen resource](#) represents a sample of material collected from a patient for the purpose of diagnostic testing or analysis.

**FHIR Resource:** Specimen

**US Core Profile:** US Core Specimen Profile (FHIR R4)

**Profile URL:** <https://www.hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-specimen.html>

**Endpoint URI:** [https://\[ClientID\].onetouchemr.com/fhir/r4/Specimen](https://[ClientID].onetouchemr.com/fhir/r4/Specimen)

The following attributes are supported:

Name	Comments
type	Kind of material that forms the specimen
subject	The patient where the specimen came from

### Supported Interactions

The Specimen resource supports read-only interactions.

Interaction	Method	Endpoint
Read	GET	/Specimen/{id}
Search	GET	/Specimen?[parameter={value}]
Search	POST	/Specimen/_search

Create, update, and delete operations are not supported.

Search Parameters:

Parameter	Type	Description
_id	Identifier	Record identifier
patient	Reference	Patient ID or patient reference

This resource supports standard pagination and incremental update parameters. See [Common Search Capabilities](#) for details.

## Request Examples:

Read by ID

```
GET https://api.onetouchemr.com/fhir/r4/Specimen/labresult-
```

Search by type:

```
GET https://api.onetouchemr.com/fhir/r4/Specimen?patient=1
```

POST search

```
POST https://api.onetouchemr.com/fhir/r4/Specimen/_search  
Content-Type: application/x-www-form-urlencoded
```

```
patient=1
```

## Response

Read interactions return a single FHIR Specimen resource conformant to the US Core Specimen Profile.

Search interactions return a FHIR Bundle containing Specimen resources conformant to the US Core Specimen Profile.

Example Responses:

See [Appendix A.44 Specimen Read](#)

See [Appendix A.45 Specimen Search](#)

## FHIR BULK DATA ACCESS API

OneTouch EMR also supports [FHIR Bulk Data Access STU 1.0.1](#). This allows users to efficiently access large volumes of information on a group of individuals.

### Authentication and Authorization

See [OAuth 2.0 Client Credentials Grant Flow](#) for information on how to authorize Bulk Data API access calls.

### Group Level Export

Group level exports FHIR resources of diverse resource types pertaining to all patients in a specified Group.

HTTP Request	Method	Action
/Group/[ID]/\$export	GET	Initiates the asynchronous generation of data for patients belonging to the specified group

### Example:

```
GET https://api.onetouchemr.com/fhir/r4/Group/1/$export
```

### Example Response:

```
HTTP/1.1 202 Accepted
Content-Location:
https://api.onetouchemr.com/fhir/r4/$export-poll-status?_jobId=10
Content-Type: application/fhir+json; charset=utf-8
{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "code": "informational",
```

```

      "details": {
        "text": "Export job started. Export Status Poll URL:
https://api.onetouchemr.com/fhir/r4/$export-poll-status?_jobId=10"
      },
      "severity": "information"
    }
  ]
}

```

The response will include a Content-Location header which points to a URL of an endpoint for subsequent export status requests (polling location).

#### Bulk Data Delete Request

After a bulk data request has been started, the client may send a delete request to the URL provided in the Content-Location header to cancel the request.

HTTP Request	Method	Action
/\$export-poll-status?_jobId=[JOB_ID]	DELETE	Cancel the processing of the export job

#### Example:

```
DELETE https://api.onetouchemr.com/fhir/r4/$export-poll-status?_jobId=10
```

#### Possible Responses:

Success: Returned by the server while the export process was successfully cancelled

```

HTTP/1.1 202 Accepted
Content-Type: application/json; charset=utf-8
{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "code": "informational",
      "details": {
        "text": "Export Job deletion accepted."
      },
      "severity": "information"
    }
  ]
}

```

```
}
```

**Failed:** Returned by the server if the job was not cancelled.

```
HTTP/1.1 500 Internal Server Error
Content-Type: application/json; charset=utf-8
{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "code": "processing",
      "diagnostics": "Failed to delete export job.",
      "severity": "error"
    }
  ]
}
```

#### Bulk Data Status Request

After a bulk data request has been started, the client may poll the status URL provided in the Content-Location header.

HTTP Request	Method	Action
/\$export-poll-status?_jobId=[JOB_ID]	GET	Request current status of a given bulk export job

#### Example:

```
GET https://api.onetouchemr.com/fhir/r4/$export-poll-status?_jobId=10
```

Possible responses:

**In-Progress:** Returned by the server while the export process is still running

```
HTTP/1.1 202 Accepted
X-Progress: Export in progress
Retry-After: 60
```

**Not Found:** Returned by the server if the specified export job does not exist

```
HTTP/1.1 404 Not Found
Content-Type: application/json; charset=utf-8
{
  "resourceType": "OperationOutcome",
```

```
"issue": [
  {
    "code": "not-found",
    "diagnostics": "Job ID 1234 not found.",
    "severity": "error"
  }
]
```

Failed: Returned by the server if the export operation fails

```
HTTP/1.1 500 Internal Server Error
Content-Type: application/json; charset=utf-8
{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "code": "processing",
      "diagnostics": "Data export failed.",
      "severity": "error"
    }
  ]
}
```

Complete: Returned by the server when the export operation has completed

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=utf-8
{
  "transactionTime": "2023-10-22T08:22:46+00:00",
  "request": "/Group/1/$export",
  "requiresAccessToken": true,
  "output": [
    {
      "type": "AllergyIntolerance",
      "url": "https://api.onetouchemr.com/fhir/r4/Binary/5"
    },
    {
      "type": "CarePlan",
      "url": "https://api.onetouchemr.com/fhir/r4/Binary/12"
    },
    {
      "type": "CareTeam",
      "url": "https://api.onetouchemr.com/fhir/r4/Binary/7"
    },
  ],
}
```

```
{
  "type": "Condition",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/13"
},
{
  "type": "Device",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/18"
},
{
  "type": "DiagnosticReport",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/14"
},
{
  "type": "DocumentReference",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/17"
},
{
  "type": "Encounter",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/10"
},
{
  "type": "Goal",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/4"
},
{
  "type": "Immunization",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/3"
},
{
  "type": "Location",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/6"
},
{
  "type": "MedicationRequest",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/11"
},
{
  "type": "Observation",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/16"
},
{
  "type": "Organization",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/1"
},
},
```

```

{
  "type": "Patient",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/15"
},
{
  "type": "Practitioner",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/2"
},
{
  "type": "Procedure",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/9"
},
{
  "type": "Provenance",
  "url": "https://api.onetouchemr.com/fhir/r4/Binary/8"
}
],
"error": []
}

```

#### File Request

Using the URLs supplied by the FHIR server inside the Complete Status response body, a client can download the generated bulk. Access token is also required for requests to those URLs.

#### Example:

```
GET https://api.onetouchemr.com/fhir/r4/Binary/9
```

#### Example Response:

```

HTTP/1.1 200 OK
Content-Type: application/fhir+ndjson
{"resourceType":"Procedure","id":"3","meta":{"lastUpdated":"2015-06-22T15:30:38+00:00","profile":["http://hl7.org/fhir/us/core/StructureDefinition/us-core-procedure"]},"code":{"coding":[{"code":"56251003","display":"Nebulizer therapy","system":"http://snomed.info/sct"}],"text":"Nebulizer therapy"},"encounter":{"reference":"Encounter/1"},"performedDateTime":"2015-06-22T20:35:00-05:00","status":"completed","subject":{"reference":"Patient/1"}}
{"resourceType":"Procedure","id":"4","meta":{"lastUpdated":"2015-06-22T15:30:38+00:00","profile":["http://hl7.org/fhir/us/core/StructureDefinition/us-core-procedure"]},"code":{"coding":[{"code":"175135009","display":"Introduction of cardiac pacemaker system via

```

```
vein", "system": "http://snomed.info/sct"}, {"text": "Introduction of cardiac pacemaker system via vein"}, {"encounter": {"reference": "Encounter/1"}, "performedDateTime": "2011-10-05T09:38:00-05:00", "status": "completed", "subject": {"reference": "Patient/1"}}}
```

Resources exported are in NDJSON format: <https://build.fhir.org/nd-json.html>.

## FHIR API ERROR RESPONSES

### Resource Not Found

Resource READ operation fails when no resource with the given ID is found

```
HTTP/3 404 Not Found
Content-Type: application/fhir+json; charset=utf-8
{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "code": "not-found",
      "diagnostics": "{RESOURCE_NAME} with id {RECORD_ID} was not found.",
      "severity": "error"
    }
  ]
}
```

### Invalid Search Parameter Value

Resource SEARCH operation fails when an invalid/unsupported value for a parameter is encountered

```
HTTP/3 400 Bad Request
Content-Type: application/fhir+json; charset=utf-8
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "{CURRENT_TIME}"
  },
  "entry": [
    {
      "resource": {
```

```

        "resourceType": "OperationOutcome",
        "issue": [
          {
            "code": "invalid",
            "diagnostics": "{MESSAGE}",
            "severity": "error"
          }
        ]
      },
      "search": {
        "mode": "outcome"
      }
    }
  ],
  "link": [
    {
      "relation": "self",
      "url": "{CURRENT_SEARCH_URL_USED}"
    }
  ],
  "total": 0,
  "type": "searchset"
}

```

### Unsupported/Invalid Resource

Any operation on unsupported or unrecognized resource fails

HTTP/3 400 Bad Request

Content-Type: application/fhir+json; charset=utf-8

```

{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "code": "not-supported",
      "diagnostics": "Invalid Request. Unable to handle operation.",
      "severity": "error"
    }
  ]
}

```

### Invalid HTTP Method Used

Resource READ Operation should use HTTP GET method. Resource SEARCH operation supports either HTTP GET or HTTP POST.

HTTP/3 405 Method Not Allowed

Content-Type: application/fhir+json; charset=utf-8

```
{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "code": "not-supported",
      "diagnostics": "HTTP method not allowed.",
      "severity": "error"
    }
  ]
}
```

Unauthorized Access

Any resource operations with missing or invalid access token fails

HTTP/3 401 Unauthorized

Content-Type: application/fhir+json; charset=utf-8

```
{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "code": "security",
      "diagnostics": "Invalid or missing access token.",
      "severity": "fatal"
    }
  ]
}
```

Insufficient Access Permissions

Any resource operation fails if the scopes/permissions granted do not satisfy the required scopes/permissions by the operation

HTTP/3 403 Forbidden

Content-Type: application/fhir+json; charset=utf-8

```
{
  "resourceType": "OperationOutcome",
  "issue": [
    {
      "code": "forbidden",
      "diagnostics": "Insufficient access permissions.",
      "severity": "error"
    }
  ]
}
```

```
    ]  
  }  
}
```

### Rate Limit Exceeded

A resource operation fails if the client exceeds the allowed request rate for the API. When this occurs, the request is rejected and an `OperationOutcome` resource is returned indicating that the request has been throttled. The client should retry the request after an appropriate delay.

```
HTTP/3 429 Too Many Requests  
Content-Type: application/fhir+json; charset=utf-8  
{  
  "resourceType": "OperationOutcome",  
  "issue": [  
    {  
      "code": "throttled",  
      "diagnostics": "{MESSAGE}",  
      "severity": "error"  
    }  
  ]  
}
```

## SECURITY AND IDENTITY VERIFICATION

### OAuth 2.0 Authorization Code Flow

#### Requesting Authorization

For Standalone Patient Apps, EHR Launch Apps, and Public Client Apps, the OAuth2 Authorization Code web flow is used to authorize access to the API.

At launch time, the registered app constructs an authorization request to OneTouch EMR's OAuth2 Authorization Endpoint (*{baseURL}/oauth/authorization*) with containing the following parameters:

Name	Description
response_type	Has a fixed value: code
client_id	The client_id assigned to the client during registration
redirect_uri	The URI where the user will get redirected to after authorization. This must

	match the redirect_uri registered to the client
launch	For EHR Launch apps, this value must match the launch value received from the OneTouch EMR during launch
scope	Describes the access that the app is requesting, including clinical data scopes and either a “launch” value or “launch/{context}” value. See OAuth2 Access Scopes section for supported scopes
state	An opaque value used by the client to maintain state between the request and callback. The authorization server includes this value when redirecting the user-agent back to the client. This must be an unguessable random string, used to protect against request forgery attacks.
aud	The {baseUrl} for OneTouch EMRs API service

While logged in, the user will approve a selection of permissions/scopes and submit the form to authorize the request. OneTouch EMR’s authorization endpoint will then redirect the user to the redirect\_uri containing following parameters:

Name	Description
state	The exact value received from the client in the authorization link
code	The authorization code generated by the server

### Requesting Access Token

After receiving the authorization code, the client app can exchange the authorization code for an access token by sending a POST request to OneTouch EMR’s OAuth2 Token Endpoint (*{baseUrl}/oauth/token*).

The POST request from Standalone and EHR Launch clients require an Authorization header using HTTP Basic authentication, where the username is the app’s client\_id and the password is the app’s client\_secret provided in the registration. Public clients do not require an Authorization header.

The access token request will contain the following application/x-www-form-urlencoded data:

Name	Description
grant_type	Has a fixed value: authorization_code
code	Code that the app received from the authorization server
redirect_uri	Same redirect_uri used in the initial authorization request. This must match the redirect_uri registered to the client
client_id	Only required for public clients.

Upon successful verification of the submitted access token request, the token endpoint will return a JSON object with a structure containing the following elements:

Name	Description
access_token	The access token issued by the authorization server
token_type	Fixed value: Bearer
scope	Scope of access authorized by the user
id_token	Optional. Authenticated patient identity and user details if requested using openid scope
refresh_token	Token that can be used to obtain a new access token, using the same or a subset of the original authorization grants
patient	If patient context is present and/or requested, this will contain the patient id

### Using Access Token for FHIR API Calls

The app can now issue FHIR API calls by including an Authorization header containing the access token received as Bearer token.

Example Authorization header using access\_token received (5a20e14bc31542540541de3c085f413983303e8c):

```
GET https://api.onetouchemr.com/fhir/r4/Patient/1
Authorization: Bearer 5a20e14bc31542540541de3c085f413983303e8c
```

### Refresh Token Issuance for Native Applications

The OneTouch EMR Authorization Server supports the issuance of refresh tokens to authorized client applications as part of the OAuth 2.0 Authorization Code grant flow.

For native or public client applications (such as mobile, desktop, or single-page applications) that cannot securely store a client secret, the Authorization Code flow with Proof Key for Code Exchange (PKCE) is required.

When a native application successfully completes the Authorization Code flow with PKCE and the appropriate scopes are granted by the user, the authorization server may issue a refresh token along with the access token.

Refresh tokens allow the client application to obtain new access tokens without requiring the user to reauthenticate, subject to the authorization server's security policies and token expiration rules.

Refresh tokens are bound to the registered client application and may be revoked by the authorization server in accordance with security policies.).

### OAuth 2.0 Client Credentials Grant Flow

For Multi-patient/Bulk Data clients, the Client Credentials Grant Flow using JSON Web Token (JWT) is used to authorize access.

Before a client can request an access token, it must generate a one-time-use JSON Web Token (JWT) that will be used to authenticate the client to the OneTouch EMR's bulk-access token endpoint (**{baseURL}/oauth/bulk-token**). The authentication JWT must include the following claims, and must be signed with the client's private key (which should use an **RS384** signature):

#### Authentication JWT Header values

Name	Description
alg	The JWA algorithm used for signing the authentication JWT. OneTouch EMR currently supports <b>RS384</b> only.
kid	The identifier of the key-pair used to sign this JWT. This identifier SHALL be unique within the client's JWK Set.
type	Fixed value: JWT
jku	Optional. The TLS-protected URL to the JWK Set containing the public key(s) accessible without authentication or authorization. When present, this should match a value that the client supplied to the OneTouch EMR at client registration time. When absent, the server will fall back on the JWK Set URL or the JWK Set supplied at registration time.

#### Authentication JWT Claims

Name	Description
iss	Issuer of the JWT -- the client's client_id, as determined during registration. Same value as sub claim
sub	The service's client_id. Same value as iss claim
aud	OneTouch EMR's Bulk Token URL ( <b>{baseUrl}/oauth/bulk-token</b> ) where the authentication JWT will be posted
exp	Expiration time integer for this authentication JWT, expressed in seconds since the "Epoch" (1970-01-01T00:00:00Z UTC). This time must be no more than five minutes in the future.
jti	A nonce string value that uniquely identifies this authentication JWT.

The generated authentication JWT will be then included in a HTTP POST request, using application/x-www-form-urlencoded content-type. The request will contain the following parameters:

Name	Description
scope	The scopes of access requested
grant_type	Fixed value: client_credentials
client_assertion_type	Fixed value: urn:ietf:params:oauth:client-assertion-type:jwt-bearer
client_assertion	The signed authentication JWT

After the client sends the request, OneTouch EMR's Bulk Token endpoint will verify the signature using keys from the jku header (if present) or the JWK set URL provided during client registration. Upon success, the server will issue an access token response in JSON format with the following properties:

Name	Description
access_token	The access token issued by the authorization server.
token_type	Fixed value: bearer
expires_in	The lifetime in seconds of the access token. OneTouchEMR issues tokens with a five-minute lifetime
scope	Scope of access authorized.

The issued access token can then be used to make FHIR Bulk Data API calls.

## OAuth 2.0 Authorization Scopes

The OneTouch EMR FHIR R4 RESTful API supports SMART on FHIR STU2.0 authorization scopes using FHIR interaction-based scope syntax. Backward compatibility with SMART App Launch STU1 scope formats is maintained.

### 1. Clinical Data Scopes (STU2.0 Format)

#### A. Patient-Level Scopes

Format: patient/{resourceType}.rs

Examples:

- patient/Patient.rs
- patient/Observation.rs
- patient/Condition.rs

These scopes allow read and search access to data for a single patient in the patient launch context.

#### B. User-Level Scopes

Format: user/{resourceType}.rs

Examples:

- user/Patient.rs
- user/Encounter.rs
- user/Observation.rs

These scopes allow access to data that the authenticated end-user has permission to access.

#### C. System-Level Scopes (Backend Services / Bulk Data)

Format: system/{resourceType}.rs

Examples:

- system/Patient.rs
- system/Observation.rs
- system/Location.rs

System-level scopes are used for backend services and Bulk Data Export. These scopes are associated with the authorized client application rather than a human end-user.

## 2. Wildcard Scopes

Supported wildcard scopes:

- patient/\*.rs
- user/\*.rs
- system/\*.rs

Wildcard scopes grant read and search access to all supported resources within the applicable context.

Access is limited to read-only interactions.

## 3. Fine-Grained Scopes (SMART STU2.0)

The API supports SMART STU2.0 fine-grained resource constraints using FHIR search parameters.

Format: {context}/{resourceType}.rs?{search-parameters}

Supported fine-grained filtering include:

- Condition.rs?category=http://terminology.hl7.org/CodeSystem/condition-category|encounter-diagnosis
- Condition.rs?category=http://hl7.org/fhir/us/core/CodeSystem/condition-category|health-concern
- Condition.rs?category=http://terminology.hl7.org/CodeSystem/condition-category|problem-list-item
- Observation.rs?category=http://terminology.hl7.org/CodeSystem/observation-category|laboratory

- Observation.rs?category=http://terminology.hl7.org/CodeSystem/observation-category|social-history
- Observation.rs?category=http://terminology.hl7.org/CodeSystem/observation-category|vital-signs
- Observation.rs?category=http://terminology.hl7.org/CodeSystem/observation-category|survey
- Observation.rs?category=http://terminology.hl7.org/CodeSystem/observation-category|procedure
- Observation.rs?category=http://hl7.org/fhir/us/core/CodeSystem/us-core-category|sdoh

Fine-grained scopes restrict the data returned by the API to resources matching the specified constraints.

#### **4. Launch Context Scopes**

Supported launch context scopes:

- launch
- launch/patient

The launch/patient scope provides a patient context at application launch.

#### **5. OpenID Connect Scopes**

Supported identity scopes:

- openid
- profile
- fhirUser

When requested, an id\_token is returned containing information about the authenticated user.

#### **6. Refresh Token Scopes**

Supported refresh scopes:

- online\_access
- offline\_access

online\_access requests a refresh token usable while the end-user remains online.

offline\_access requests a refresh token that remains valid independent of user session state, subject to authorization server policy.

## **7. Backward Compatibility (SMART STU1)**

The API continues to support SMART STU1 scope formats, including:

- patient/.read
- user/.read
- system/\*.read

Clients are encouraged to migrate to the SMART STU2.0 .rs interaction-based scope format.

## ELECTRONIC HEALTH INFORMATION (EHI) EXPORT

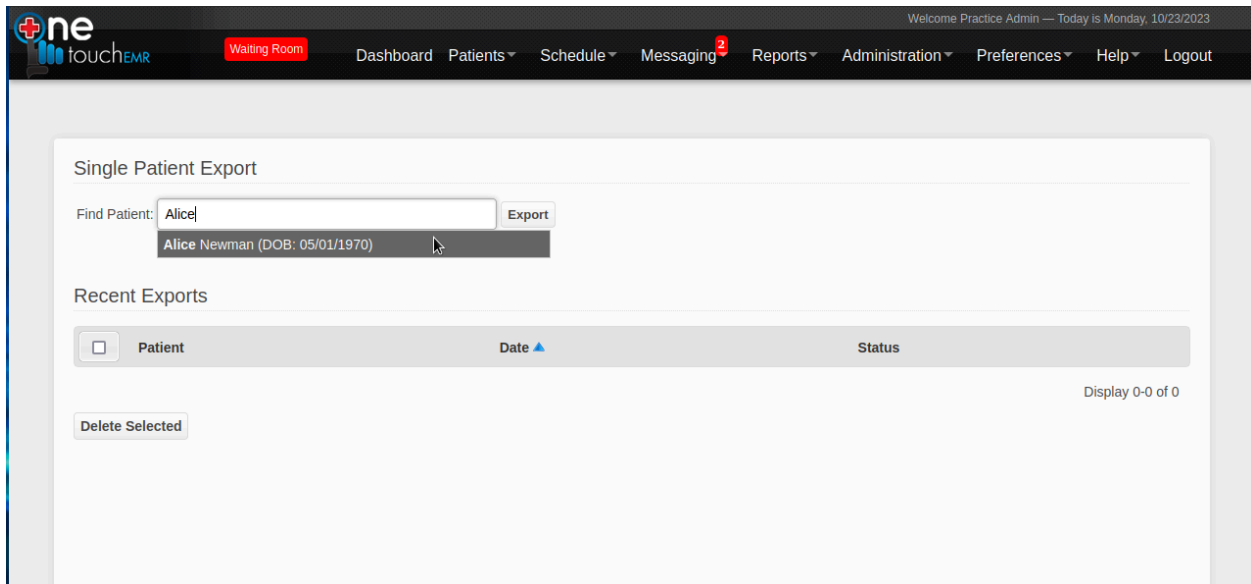
OneTouch EMR leverages FHIR Bulk Data Access to enable users to export patient data.

### Single Patient EHI Export

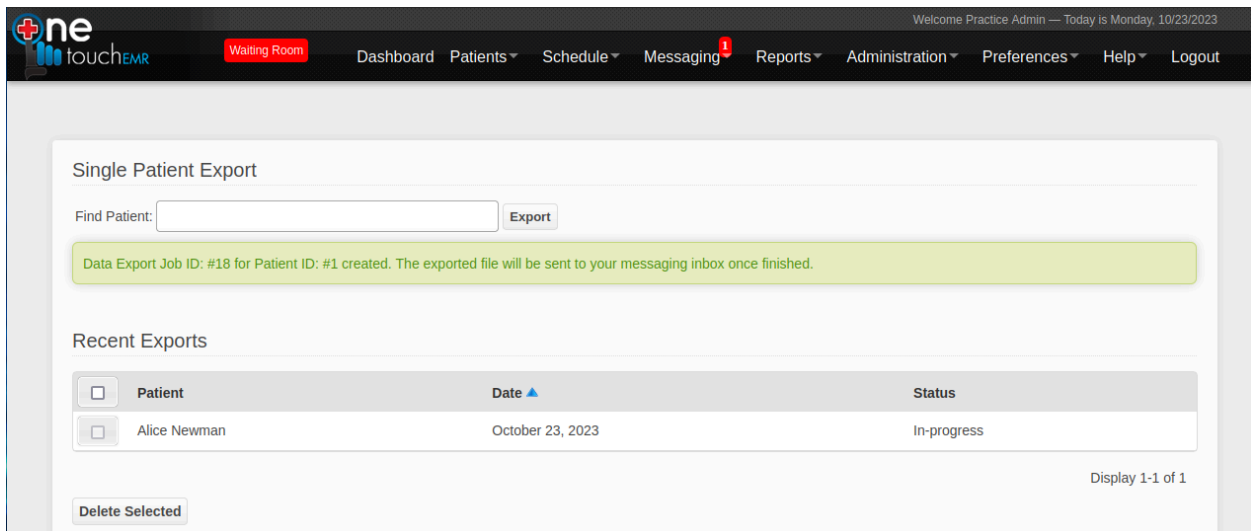
Any user with an Office Manager, Practice Administrator, or System Administrator role will be able to export data for a single patient via the Administration Panel. From the **Administration** -> **General** menu, there will be a section for Single Patient Export containing a link to the **Export Patient EHI** page.

The screenshot displays the OneTouch EMR Administration Panel. The top navigation bar includes the OneTouch logo, a 'Waiting Room' indicator, and menu items for Dashboard, Patients, Schedule, Messaging (with a notification badge), Reports, Administration, Preferences, Help, and Logout. The Administration dropdown menu is open, showing options: General, Users, Directories, Point of Care, Health Maintenance, and Forms. The main content area is titled 'Administration' and contains several sections: 'Setup' (with sub-sections: Practice Settings, Practice Profile, Practice Location, Appointments, Patients, Encounters, Patient Portal), a welcome message with a 'Begin Setup' link, 'Tutorials' (with 'Tutorial Videos' link), 'Import Data' (with 'Import Data' link), 'e-Labs & Imaging' (with 'Add e-Labs & Imaging' link), 'e-Prescribing & EPCS' (with 'Setup e-Prescribing' link), 'Template Library' (with 'Choose Templates' link), 'Marketing Support' (with 'Mailchimp Integration' link), 'Export Data' (with 'Export Data' link), and 'Single Patient Export' (with 'Export Patient EHI' link). The 'Single Patient Export' section and its 'Export Patient EHI' link are highlighted with a green rectangular box.

The user can enter the name of a patient and , with the help of the autocomplete feature, select the patient whose EHI will be exported.



After clicking export, the system will start the export process. Depending on the volume of the data being, processing may take a while. You can monitor the status of the export jobs on the same page.



Once the export process is completed, the exported data will be sent through the Messaging system as an attachment in [zipped format](#).

ne touchEMR Waiting Room Dashboard Patients Schedule Messaging Reports Administration Preferences Help Logout Welcome Practice Admin — Today is Monday, 10/23/2023

### Messaging

**Inbox** 1 Outbox Drafts

Sent: 10/23/2023, 2:45:20 PM Status: Read

From:

To: Practice Admin

Type: Other

Patient: [Alice Newman](#)

Priority: Normal

Subject: FHIR Data Export Completed

Attachment: [fhir\\_export\\_17\\_24\\_65361680a3eec.zip](#)

Your FHIR Data Export for Patient ID #1 has been completed.

Reply Back To Inbox Delete

Inside the zip file, the user will see different resource files in NDJSON format (<https://build.fhir.org/nd-json.html>), and plain text file name README.txt containing additional information related to the contents and formats of the files inside the zip file.

fhir\_export\_3\_1\_69a7e94acec07.zip

Archive Edit View Help

Open Extract

Location: /

Name	Size
AllergyIntolerance-47.ndjson	1.7 kB
CarePlan-48.ndjson	4.1 kB
CareTeam-49.ndjson	1.5 kB
Condition-50.ndjson	6.4 kB
Coverage-51.ndjson	1.0 kB
Device-52.ndjson	712 bytes
DiagnosticReport-53.ndjson	728 bytes
DocumentReference-54.ndjson	3.9 kB
Encounter-55.ndjson	1.4 kB
Goal-56.ndjson	1.0 kB
Immunization-57.ndjson	1.2 kB
Location-58.ndjson	487 bytes
MedicationDispense-59.ndjson	0 bytes
MedicationRequest-60.ndjson	2.6 kB
Observation-61.ndjson	18.0 kB
Organization-62.ndjson	1.3 kB
Patient-63.ndjson	2.4 kB
Practitioner-64.ndjson	1.1 kB
Procedure-65.ndjson	1.5 kB
Provenance-66.ndjson	755 bytes
README.txt	5.7 kB
RelatedPerson-67.ndjson	1.2 kB
ServiceRequest-68.ndjson	1.8 kB
Specimen-69.ndjson	336 bytes

24 objects (60.8 kB)

README.txt contents:

Exported FHIR Resources:

  AllergyIntolerance:

-

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-allergyintolerance.html>

  CarePlan:

-

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-careplan.html>

  CareTeam:

-

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-careteam.html>

  Condition:

-

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-condition-encounter-diagnosis.html>

-

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-condition-problems-health-concerns.html>

  Coverage:

-

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-coverage.html>

  Device:

-

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-implantable-device.html>

  DiagnosticReport:

-

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-diagnosticreport-note.html>

-

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-diagnosticreport-lab.html>

  DocumentReference:

-

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-documentreference.html>

  Encounter:

-

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-encounter.html>

  Goal:

-

<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-goal.html>

  Immunization:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-immunization.html>

Location:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-location.html>

MedicationDispense:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-medicationdispense.html>

MedicationRequest:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-medication.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-medicationrequest.html>

Observation:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-lab.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-pregnancystatus.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-pregnancyintent.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-occupation.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-respiratory-rate.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-simple-observation.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-heart-rate.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-body-temperature.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-pediatric-weight-for-height.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-pulse-oximetry.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-smokingstatus.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-sexual-orientation.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-head-circumference.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-body-height.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-bmi.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-screening-assessment.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-blood-pressure.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-observation-clinical-result.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-pediatric-bmi-for-age.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-head-occipital-frontal-circumference-percentile.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-body-weight.html>

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-vital-signs.html>

#### Organization:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-organization.html>

#### Patient:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-patient.html>

#### Practitioner:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-practitioner.html>

#### Procedure:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-procedure.html>

#### Provenance:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-provenance.html>

#### RelatedPerson:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-relatedperson.html>

ServiceRequest:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-servicerequest.html>

Specimen:

-  
<https://hl7.org/fhir/us/core/STU6.1/StructureDefinition-us-core-specimen.html>

Each resource file (ending in .ndjson) is in New line Delimited JSON (NDJSON) Format:

NDJSON Format: <https://build.fhir.org/nd-json.html>

Each line contains a resource in FHIR JSON format:

FHIR JSON Format: <https://build.fhir.org/json.html>

PresentedForm Data for DiagnosticReport and Content Attachment Data for DocumentReference resources are base64-encoded and can be converted to its original form by decoding:

- <http://hl7.org/fhir/R4/datatypes.html#base64Binary>
- <https://datatracker.ietf.org/doc/html/rfc4648#section-4>

## All Patient EHI Export

Data for all patients can also be exported in the same format as the single patient export. However, due to the large volume of data that needs to be processed, this can only be requested through support by contacting OneTouch EMR.

## **ADDITIONAL DATA BEYOND THE STANDARD**

The OneTouch EMR FHIR R4 RESTful API supports the data elements defined by the adopted standards and implementation specifications, including HL7<sup>®</sup> FHIR<sup>®</sup> Release 4 (R4) and the US Core Implementation Guide Version 6.1.0.

The API primarily exposes standardized data elements corresponding to the United States Core Data for Interoperability (USCDI) Version 3.

In some cases, additional data elements may be included within FHIR resources when such elements are part of the standard FHIR resource structure and are available in the underlying system. These elements are returned using the standard FHIR resource schema and do not modify the structure defined by the HL7 FHIR specification.

The OneTouch EMR API does not require third-party applications to access proprietary extensions or non-standard resource formats in order to retrieve USCDI data through the API.

## **TERMS AND CONDITIONS**

OT EMR, Inc. offers some of its data from OneTouch EMR 3 in machine readable format through an Application Programming Interface (API). This service is offered subject to your acceptance of the terms and conditions (Agreement) contained herein.

All of the content, documentation, code, and related materials made available to you through the API are subject to these terms. Access to use the API or its content constitutes acceptance of this Agreement.

Using this API does not require pre registration with OT EMR, Inc., instead a username/password is required from the registered client. You may use any of the OT EMR, Inc. API's to develop a service or services to search, display, analyze, retrieve, view, and otherwise "get" information from OT EMR, Inc.

This API is provided "AS IS", without warranty of any kind, express or implied, including but not limited to the warranties of merchantability, fitness for a particular purpose and non-infringement. In no event shall the authors or copyright holders be liable for any claim, damages or other liability, whether in an action of contract, tort or otherwise, arising from, out of or in connection with the API or the use or other dealings in the Software.

Only OT EMR, Inc. may modify the terms of this Agreement. Company may modify the terms of this Agreement without written notice by posting the modified Agreement on our Company website.

### **You hereby warrant that:**

- (1) Your use of the API will be in strict accordance with the OT EMR, Inc. Privacy Policy, this Agreement, and all applicable laws and regulations; and
- (2) Your use of the API will not infringe or misappropriate the intellectual property rights of any third party.

### **Fees**

Currently this API is available free of charge to the registered clients who are already paying fees i.e. the clients who are on paid plans.

Free Plan/Freemium tier clients have to pay a monthly fee that interacts with OneTouch APIs, and can request a quote by contacting [sales@onetouchemr.com](mailto:sales@onetouchemr.com).

### **Restrictions & Limitations**

**Restrictions and Limitations:** Developer(s) shall implement the APIs in accordance with the OneTouch EMR API Documentation. Developer(s) shall not: (i) modify, reverse engineer, decompile, or otherwise alter or attempt to gain access to the APIs or the OneTouch EMR in a manner not in accordance with this Agreement, (ii) use or enable its customers to use the APIs for the purposes of testing or comparison of OneTouch EMR or for any purpose competitive with OneTouch EMR, or (iii) perform bulk operations with APIs that are designed for single contact operations or perform single contact operations with APIs that are designed for performing bulk operations. Developer(s) agrees to protect the security and confidentiality of any credentials and API keys disclosed by OneTouch hereunder.

**Ownership; No Other Licenses.** The APIs contained in the Offering shall remain the sole and exclusive intellectual property of OneTouch EMR and the Developer shall reasonably assist OneTouch EMR in protecting such ownership. No other licenses or rights in any of OneTouch EMR's intellectual property rights are granted hereunder.

### **Obligations**

None. This API is optional.

### **Registration Process Requirements**

Contact our sales department at [sales@onetouchemr.com](mailto:sales@onetouchemr.com) to initiate any requests to set up for a client.

## APPENDIX A Example Responses

### 1 AllergyIntolerance Read

Read AllergyIntolerance resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/AllergyIntolerance/1/
```

Example Response:

```
{
  "resourceType": "AllergyIntolerance",
  "id": "1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [

"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-allergyinto
lerance"
    ]
  },
  "category": [
    "medication"
  ],
  "clinicalStatus": {
    "coding": [
      {
        "code": "active",
        "system":
"http://terminology.hl7.org/CodeSystem/allergyintolerance-clinical"
      }
    ]
  },
  "code": {
    "coding": [
      {
        "code": "7980",
        "display": "Penicillin G",
        "system": "http://www.nlm.nih.gov/research/umls/rxnorm"
      }
    ],
    "text": "Penicillin G"
  },
  "patient": {
```

```

    "reference": "Patient/1"
  },
  "reaction": [
    {
      "manifestation": [
        {
          "coding": [
            {
              "code": "247472004",
              "display": "Weal",
              "system": "http://snomed.info/sct"
            }
          ],
          "text": "Hives/Weal/Rash"
        }
      ],
      "severity": "moderate"
    }
  ],
  "verificationStatus": {
    "coding": [
      {
        "code": "confirmed",
        "system":
"http://terminology.hl7.org/CodeSystem/allergyintolerance-verification"
      }
    ]
  }
}

```

## 2 AllergyIntolerance Search

GET <https://api.onetouchemr.com/fhir/r4/AllergyIntolerance?patient=1>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/AllergyIntolerance/\\_search](https://api.onetouchemr.com/fhir/r4/AllergyIntolerance/_search)

Content-Type: application/x-www-form-urlencoded

patient=1

Example Response:

```
{
```

```

"resourceType": "Bundle",
"meta": {
  "lastUpdated": "2026-01-28T10:29:40+00:00"
},
"entry": [
  {
    "fullUrl":
"https://api.onetouchemr.com/fhir/r4/AllergyIntolerance/1",
    "resource": {
      "resourceType": "AllergyIntolerance",
      "id": "1",
      "meta": {
        "lastUpdated": "2026-01-20T03:24:12+00:00",
        "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-allergyintolerance"
        ]
      },
      "category": [
        "medication"
      ],
      "clinicalStatus": {
        "coding": [
          {
            "code": "active",
            "system":
"http://terminology.hl7.org/CodeSystem/allergyintolerance-clinical"
          }
        ]
      },
      "code": {
        "coding": [
          {
            "code": "7980",
            "display": "Penicillin G",
            "system": "http://www.nlm.nih.gov/research/umls/rxnorm"
          }
        ],
        "text": "Penicillin G"
      },
      "patient": {
        "reference": "Patient/1"
      }
    }
  },

```

```

"reaction": [
  {
    "manifestation": [
      {
        "coding": [
          {
            "code": "247472004",
            "display": "Weal",
            "system": "http://snomed.info/sct"
          }
        ],
        "text": "Hives/Weal/Rash"
      }
    ],
    "severity": "moderate"
  }
],
"verificationStatus": {
  "coding": [
    {
      "code": "confirmed",
      "system":
"http://terminology.hl7.org/CodeSystem/allergyintolerance-verification"
    }
  ]
},
"search": {
  "mode": "match"
},
{
  "fullUrl":
"https://api.onetouchemr.com/fhir/r4/AllergyIntolerance/2",
  "resource": {
    "resourceType": "AllergyIntolerance",
    "id": "2",
    "meta": {
      "lastUpdated": "2026-01-20T03:24:12+00:00",
      "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-allergyinto
lerance"
      ]
    }
  }
}

```

```
},
"category": [
  "medication"
],
"clinicalStatus": {
  "coding": [
    {
      "code": "active",
      "system":
"http://terminology.hl7.org/CodeSystem/allergyintolerance-clinical"
    }
  ]
},
"code": {
  "coding": [
    {
      "code": "733",
      "display": "Ampicillin",
      "system": "http://www.nlm.nih.gov/research/umls/rxnorm"
    }
  ],
  "text": "Ampicillin"
},
"patient": {
  "reference": "Patient/1"
},
"reaction": [
  {
    "manifestation": [
      {
        "coding": [
          {
            "code": "247472004",
            "display": "Weal",
            "system": "http://snomed.info/sct"
          }
        ],
        "text": "Hives/Weal/Rash"
      }
    ],
    "severity": "moderate"
  }
],
"verificationStatus": {
```

```

      "coding": [
        {
          "code": "confirmed",
          "system":
"http://terminology.hl7.org/CodeSystem/allergyintolerance-verification"
        }
      ]
    },
    "search": {
      "mode": "match"
    }
  },
  "link": [
    {
      "relation": "self",
      "url":
"https://api.onetouchemr.com/fhir/r4/AllergyIntolerance?patient=1&_count=10
&_page=1"
    }
  ],
  "total": 2,
  "type": "searchset"
}

```

### 3 CarePlan Read

Read CarePlan resource with ID plab-1

```
GET https://api.onetouchemr.com/fhir/r4/CarePlan/plab-1
```

Example Response:

```

{
  "resourceType": "CarePlan",
  "id": "plab-1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [

```

```

"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-careplan"
  ]
},
"text": {
  "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Urinalysis macro
(dipstick) panel</div>",
  "status": "generated"
},
"category": [
  {
    "coding": [
      {
        "code": "assess-plan",
        "display": "Assessment and Plan of Treatment",
        "system":
"http://hl7.org/fhir/us/core/CodeSystem/careplan-category"
      }
    ]
  }
],
"intent": "order",
"status": "active",
"subject": {
  "reference": "Patient/1"
}
}

```

## 4 CarePlan Search

GET <https://api.onetouchemr.com/fhir/r4/CarePlan?patient=2>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/CarePlan/\\_search](https://api.onetouchemr.com/fhir/r4/CarePlan/_search)

Content-Type: application/x-www-form-urlencoded

patient=2

Example Response:

```

{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-07T08:24:59+00:00"
  }
}

```

```

},
"entry": [
  {
    "fullUrl": "https://api.onetouchemr.com/fhir/r4/CarePlan/ptxt-2",
    "resource": {
      "resourceType": "CarePlan",
      "id": "ptxt-2",
      "meta": {
        "lastUpdated": "2026-01-20T03:24:13+00:00",
        "profile": [
          "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-careplan"
        ]
      },
      "text": {
        "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">The patient
was found to be healthy and advised to follow his current routine of
exercise, work, sleep and quality of life.</div>",
        "status": "additional"
      },
      "category": [
        {
          "coding": [
            {
              "code": "assess-plan",
              "display": "Assessment and Plan of Treatment",
              "system":
"http://hl7.org/fhir/us/core/CodeSystem/careplan-category"
            }
          ]
        }
      ],
      "intent": "plan",
      "status": "completed",
      "subject": {
        "reference": "Patient/2"
      }
    },
    "search": {
      "mode": "match"
    }
  },
  {
    "fullUrl": "https://api.onetouchemr.com/fhir/r4/CarePlan/pfup-2",

```

```

"resource": {
  "resourceType": "CarePlan",
  "id": "pfup-2",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:13+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-careplan"
    ]
  },
  "text": {
    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Return for Follow-up visit 366 day(s) after July 22, 2015</div>",
    "status": "additional"
  },
  "category": [
    {
      "coding": [
        {
          "code": "assess-plan",
          "display": "Assessment and Plan of Treatment",
          "system": "http://hl7.org/fhir/us/core/CodeSystem/careplan-category"
        }
      ]
    }
  ],
  "intent": "plan",
  "status": "active",
  "subject": {
    "reference": "Patient/2"
  }
},
"search": {
  "mode": "match"
}
},
"link": [
  {
    "relation": "self",
    "url": "https://api.onetouchemr.com/fhir/r4/CarePlan?patient=2"
  }
],

```

```
"total": 2,  
"type": "searchset"  
}
```

## 5 CareTeam Read

Read CareTeam resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/CareTeam/1
```

Example Response:

```
{  
  "resourceType": "CareTeam",  
  "id": "1",  
  "meta": {  
    "lastUpdated": "2026-01-20T03:24:12+00:00",  
    "profile": [  
  
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-careteam"  
    ]  
  },  
  "encounter": {  
    "reference": "Encounter/1"  
  },  
  "managingOrganization": [  
    {  
      "display": "St. Mary Clinic",  
      "reference": "Organization/1"  
    }  
  ],  
  "participant": [  
    {  
      "member": {  
        "display": "Alice Newman",  
        "reference": "Patient/1"  
      },  
      "role": [  
        {  
          "coding": [  
            {
```

```

        "code": "116154003",
        "display": "Patient",
        "system": "http://snomed.info/sct"
      }
    ],
    "text": "Patient"
  }
]
},
{
  "member": {
    "display": "Dr. Albert Davis",
    "reference": "Practitioner/2"
  },
  "role": [
    {
      "coding": [
        {
          "code": "309343006",
          "display": "Physician (occupation)",
          "system": "http://snomed.info/sct"
        }
      ],
      "text": "Physician (occupation)"
    }
  ]
},
{
  "member": {
    "display": "St. Mary Clinic",
    "reference": "Organization/1"
  },
  "role": [
    {
      "coding": [
        {
          "code": "223366009",
          "display": "Healthcare professional (occupation)",
          "system": "http://snomed.info/sct"
        }
      ],
      "text": "Healthcare professional (occupation)"
    }
  ]
}
]

```

```
},
{
  "member": {
    "display": "Matthew Newman",
    "reference": "RelatedPerson/1"
  },
  "role": [
    {
      "coding": [
        {
          "code": "133932002",
          "display": "Caregiver (person)",
          "system": "http://snomed.info/sct"
        }
      ],
      "text": "Caregiver (person)"
    }
  ]
},
{
  "member": {
    "display": "Rick Holler",
    "reference": "RelatedPerson/2"
  },
  "role": [
    {
      "coding": [
        {
          "code": "133932002",
          "display": "Caregiver (person)",
          "system": "http://snomed.info/sct"
        }
      ],
      "text": "Caregiver (person)"
    }
  ]
},
],
"period": {
  "end": "2015-06-22T00:00:00+00:00",
  "start": "2015-06-22T00:00:00+00:00"
},
"status": "inactive",
"subject": {
```

```
    "reference": "Patient/1"
  }
}
```

## 6 CareTeam Search

GET <https://api.onetouchemr.com/fhir/r4/CareTeam?patient=2>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/CareTeam/\\_search](https://api.onetouchemr.com/fhir/r4/CareTeam/_search)  
Content-Type: application/x-www-form-urlencoded

patient=2

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-07T11:38:46+00:00"
  },
  "entry": [
    {
      "fullUrl": "https://api.onetouchemr.com/fhir/r4/CareTeam/2",
      "resource": {
        "resourceType": "CareTeam",
        "id": "2",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:13+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-careteam"
          ]
        },
        "encounter": {
          "reference": "Encounter/2"
        },
        "managingOrganization": [
          {
            "display": "St. Mary Clinic",
            "reference": "Organization/1"
          }
        ]
      }
    }
  ]
}
```

```
"participant": [
  {
    "member": {
      "display": "Jeremy Bates",
      "reference": "Patient/2"
    },
    "role": [
      {
        "coding": [
          {
            "code": "116154003",
            "display": "Patient",
            "system": "http://snomed.info/sct"
          }
        ],
        "text": "Patient"
      }
    ]
  },
  {
    "member": {
      "display": "Dr. Albert Davis",
      "reference": "Practitioner/2"
    },
    "role": [
      {
        "coding": [
          {
            "code": "309343006",
            "display": "Physician (occupation)",
            "system": "http://snomed.info/sct"
          }
        ],
        "text": "Physician (occupation)"
      }
    ]
  },
  {
    "member": {
      "display": "St. Mary Clinic",
      "reference": "Organization/1"
    },
    "role": [
      {
```

```
    "coding": [
      {
        "code": "223366009",
        "display": "Healthcare professional (occupation)",
        "system": "http://snomed.info/sct"
      }
    ],
    "text": "Healthcare professional (occupation)"
  }
]
},
{
  "member": {
    "display": "Kathy Bates",
    "reference": "RelatedPerson/3"
  },
  "role": [
    {
      "coding": [
        {
          "code": "133932002",
          "display": "Caregiver (person)",
          "system": "http://snomed.info/sct"
        }
      ],
      "text": "Caregiver (person)"
    }
  ]
},
{
  "member": {
    "display": "Mathew Bates",
    "reference": "RelatedPerson/4"
  },
  "role": [
    {
      "coding": [
        {
          "code": "133932002",
          "display": "Caregiver (person)",
          "system": "http://snomed.info/sct"
        }
      ],
      "text": "Caregiver (person)"
    }
  ]
}
```

```

        }
      ]
    }
  ],
  "period": {
    "end": "2015-07-22T00:00:00+00:00",
    "start": "2015-07-22T00:00:00+00:00"
  },
  "status": "inactive",
  "subject": {
    "reference": "Patient/2"
  }
},
"search": {
  "mode": "match"
}
}
],
"link": [
  {
    "relation": "self",
    "url":
"https://api.onetouchemr.com/fhir/r4/CareTeam?patient=2&_count=10&_page=1"
  }
],
"total": 1,
"type": "searchset"
}

```

## 7 Condition Read

Read Condition resource with ID pl-1:

```
GET https://api.onetouchemr.com/fhir/r4/Condition/pl-1
```

Example Response:

```
{
  "resourceType": "Condition",
  "id": "pl-1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-condition"
    ]
  },
  "category": [
    {
      "coding": [
        {
          "code": "problem-list-item",
          "display": "Problem List Item",
          "system":
            "http://terminology.hl7.org/CodeSystem/condition-category"
        }
      ]
    }
  ],
  "clinicalStatus": {
    "coding": [
      {
        "code": "active",
        "system":
          "http://terminology.hl7.org/CodeSystem/condition-clinical"
      }
    ]
  },
  "code": {
    "coding": [
      {
        "code": "59621000",
        "system": "http://snomed.info/sct"
      }
    ]
  },
  "text": "Essential hypertension"
},
"onsetDateTime": "2011-10-05",
"recordedDate": "2026-01-20",
"subject": {
```

```

    "reference": "Patient/1"
  },
  "verificationStatus": {
    "coding": [
      {
        "code": "confirmed",
        "system":
"http://terminology.hl7.org/CodeSystem/condition-ver-status"
      }
    ]
  }
}

```

## 8 Condition Search

GET <https://api.onetouchemr.com/fhir/r4/Condition?patient=2>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/Condition/\\_search](https://api.onetouchemr.com/fhir/r4/Condition/_search)  
 Content-Type: application/x-www-form-urlencoded

patient=2

Example Response:

```

{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-07T14:12:34+00:00"
  },
  "entry": [
    {
      "fullUrl": "https://api.onetouchemr.com/fhir/r4/Condition/ed-2",
      "resource": {
        "resourceType": "Condition",
        "id": "ed-2",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:13+00:00",
          "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-condition"
          ]
        }
      },
    }
  ]
}

```

```
"abatementDateTime": "2015-07-22",
"category": [
  {
    "coding": [
      {
        "code": "encounter-diagnosis",
        "display": "Encounter Diagnosis",
        "system":
"http://terminology.hl7.org/CodeSystem/condition-category"
      }
    ]
  }
],
"clinicalStatus": {
  "coding": [
    {
      "code": "resolved",
      "system":
"http://terminology.hl7.org/CodeSystem/condition-clinical"
    }
  ]
},
"code": {
  "coding": [
    {
      "code": "102513008",
      "system": "http://snomed.info/sct"
    }
  ],
  "text": "Well Male Adult"
},
"encounter": {
  "reference": "Encounter/2"
},
"recordedDate": "2015-07-22",
"subject": {
  "reference": "Patient/2"
},
"verificationStatus": {
  "coding": [
    {
      "code": "confirmed",
      "system":
"http://terminology.hl7.org/CodeSystem/condition-ver-status"
```

```

    }
  ]
}
},
"search": {
  "mode": "match"
}
},
],
"link": [
  {
    "relation": "self",
    "url": "https://api.onetouchemr.com/fhir/r4/Condition?patient=2"
  }
],
"total": 1,
"type": "searchset"
}

```

## 9 Coverage Read

Read Coverage resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/Coverage/1
```

Example Response:

```

{
  "resourceType": "Coverage",
  "id": "1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-coverage"
    ]
  },
  "beneficiary": {
    "reference": "Patient/1"
  },
  "class": [

```

```

{
  "type": {
    "coding": [
      {
        "code": "group",
        "display": "Group",
        "system":
"http://terminology.hl7.org/CodeSystem/coverage-class"
      }
    ]
  },
  "value": "Acme Gold Plan"
},
{
  "name": "Acme Gold Plan",
  "type": {
    "coding": [
      {
        "code": "plan",
        "display": "Plan",
        "system":
"http://terminology.hl7.org/CodeSystem/coverage-class"
      }
    ]
  },
  "value": "Acme Gold Plan"
}
],
"identifier": [
  {
    "type": {
      "coding": [
        {
          "code": "MB",
          "display": "Member Number",
          "system": "http://terminology.hl7.org/CodeSystem/v2-0203"
        }
      ]
    },
    "value": "88800933502"
  }
],
"payor": [
  {

```

```

    "reference": "Organization/ins-1200476"
  }
],
"period": {
  "start": "2015-01-01"
},
"relationship": {
  "coding": [
    {
      "code": "other",
      "display": "Other",
      "system":
"http://terminology.hl7.org/CodeSystem/subscriber-relationship"
    }
  ]
},
"status": "active",
"subscriberId": "888009335",
"type": {
  "coding": [
    {
      "code": "72",
      "system": "https://nahdo.org/sopt"
    }
  ]
}
}
}

```

## 10 Coverage Search

GET <https://api.onetouchemr.com/fhir/r4/Coverage?patient=1>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/Coverage/\\_search](https://api.onetouchemr.com/fhir/r4/Coverage/_search)  
 Content-Type: application/x-www-form-urlencoded

patient=1

Example Response:

```

{
  "resourceType": "Bundle",
  "meta": {

```

```

    "lastUpdated": "2026-02-09T12:10:20+00:00"
  },
  "entry": [
    {
      "fullUrl": "https://api.onetouchemr.com/fhir/r4/Coverage/1",
      "resource": {
        "resourceType": "Coverage",
        "id": "1",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:12+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-coverage"
          ]
        },
        "beneficiary": {
          "reference": "Patient/1"
        },
        "class": [
          {
            "type": {
              "coding": [
                {
                  "code": "group",
                  "display": "Group",
                  "system":
            "http://terminology.hl7.org/CodeSystem/coverage-class"
                }
              ]
            },
            "value": "Acme Gold Plan"
          },
          {
            "name": "Acme Gold Plan",
            "type": {
              "coding": [
                {
                  "code": "plan",
                  "display": "Plan",
                  "system":
            "http://terminology.hl7.org/CodeSystem/coverage-class"
                }
              ]
            }
          }
        ]
      }
    }
  ],

```

```
    "value": "Acme Gold Plan"
  }
],
"identifier": [
  {
    "type": {
      "coding": [
        {
          "code": "MB",
          "display": "Member Number",
          "system": "http://terminology.hl7.org/CodeSystem/v2-0203"
        }
      ]
    },
    "value": "88800933502"
  }
],
"payor": [
  {
    "reference": "Organization/ins-1200476"
  }
],
"period": {
  "start": "2015-01-01"
},
"relationship": {
  "coding": [
    {
      "code": "other",
      "display": "Other",
      "system":
"http://terminology.hl7.org/CodeSystem/subscriber-relationship"
    }
  ]
},
"status": "active",
"subscriberId": "888009335",
"type": {
  "coding": [
    {
      "code": "72",
      "system": "https://nahdo.org/sopt"
    }
  ]
}
]
```

```

    }
  },
  "search": {
    "mode": "match"
  }
},
],
"link": [
  {
    "relation": "self",
    "url":
"https://api.onetouchemr.com/fhir/r4/Coverage?patient=1&_count=10&_page=1"
  }
],
"total": 1,
"type": "searchset"
}

```

## 11 Device Read

Read Device resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/Device/1
```

Example Response:

```

{
  "resourceType": "Device",
  "id": "1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:13+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-implantable-device"
    ]
  },
  "deviceName": [
    {
      "name": "Cardiac resynchronization therapy implantable pacemaker",
      "type": "user-friendly-name"
    }
  ]
}

```

```

    ],
    "distinctIdentifier": "00643169007222",
    "expirationDate": "2016-01-28T00:00:00+00:00",
    "patient": {
      "reference": "Patient/1"
    },
  },
  "serialNumber": "BLC200461H",
  "status": "",
  "type": {
    "coding": [
      {
        "code": "704708004",
        "system": "http://snomed.info/sct"
      }
    ],
    "text": "Cardiac resynchronization therapy implantable pacemaker"
  },
  "udiCarrier": [
    {
      "carrierHRF": "(01)00643169007222(17)160128(21)BLC200461H",
      "deviceIdentifier": "00643169007222"
    }
  ]
}

```

## 12 Device Search

GET <https://api.onetouchemr.com/fhir/r4/Device?patient=1>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/Device/\\_search](https://api.onetouchemr.com/fhir/r4/Device/_search)

Content-Type: application/x-www-form-urlencoded

patient=1

Example Response:

```

{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-09T13:41:35+00:00"
  },
  "entry": [

```

```

{
  "fullUrl": "https://api.onetouchemr.com/fhir/r4/Device/1",
  "resource": {
    "resourceType": "Device",
    "id": "1",
    "meta": {
      "lastUpdated": "2026-01-20T03:24:13+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-implantable-device"
      ]
    },
    "deviceName": [
      {
        "name": "Cardiac resynchronization therapy implantable pacemaker",
        "type": "user-friendly-name"
      }
    ],
    "distinctIdentifier": "00643169007222",
    "expirationDate": "2016-01-28T00:00:00+00:00",
    "patient": {
      "reference": "Patient/1"
    },
    "serialNumber": "BLC200461H",
    "status": "unknown",
    "type": {
      "coding": [
        {
          "code": "704708004",
          "system": "http://snomed.info/sct"
        }
      ]
    },
    "text": "Cardiac resynchronization therapy implantable pacemaker"
  },
  "udiCarrier": [
    {
      "carrierHRF": "(01)00643169007222(17)160128(21)BLC200461H",
      "deviceIdentifier": "00643169007222"
    }
  ]
},
"search": {

```

```

        "mode": "match"
      }
    ]
  },
  "link": [
    {
      "relation": "self",
      "url":
"https://api.onetouchemr.com/fhir/r4/Device?patient=1&_count=10&_page=1"
    }
  ],
  "total": 1,
  "type": "searchset"
}

```

## 13 DiagnosticReport Read

Read DiagnosticReport resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/DiagnosticReport/rptnote-5
```

Example Response:

```

{
  "resourceType": "DiagnosticReport",
  "id": "rptnote-5",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:14+00:00",
    "profile": [

"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-diagnosticr
eport-note"
    ]
  },
  "category": [
    {
      "coding": [
        {
          "code": "LP29684-5",
          "display": "Radiology",
          "system": "http://loinc.org"
        }
      ]
    }
  ]
}

```

```

    ],
    "text": "Radiology"
  }
],
"code": {
  "coding": [
    {
      "code": "30746-2",
      "display": "Chest X-ray portable",
      "system": "http://loinc.org"
    }
  ]
},
"effectiveDateTime": "2025-05-22T00:00:00+00:00",
"encounter": {
  "reference": "Encounter/5"
},
"issued": "2025-05-22T00:00:00+00:00",
"performer": [
  {
    "reference": "Practitioner/17"
  }
],
"presentedForm": [
  {
    "contentType": "text/plain",
    "data": "Tm8gZmlsZSBhdmFpbGFibGU="
  }
],
"result": [
  {
    "reference": "Observation/imaging-5"
  }
],
"status": "unknown",
"subject": {
  "reference": "Patient/5"
}
}

```

## 14 DiagnosticReport Search

```
GET https://api.onetouchemr.com/fhir/r4/DiagnosticReport?patient=1
```

Or using the POST method:

```
POST https://api.onetouchemr.com/fhir/r4/DiagnosticReport/_search
```

```
Content-Type: application/x-www-form-urlencoded
```

```
patient=1
```

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-10T02:56:51+00:00"
  },
  "entry": [
    {
      "fullUrl":
"https://api.onetouchemr.com/fhir/r4/DiagnosticReport/rptlab-3",
      "resource": {
        "resourceType": "DiagnosticReport",
        "id": "rptlab-3",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:13+00:00",
          "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-diagnostic-report-lab"
          ]
        },
        "category": [
          {
            "coding": [
              {
                "code": "LAB",
                "display": "Laboratory",
                "system": "http://terminology.hl7.org/CodeSystem/v2-0074"
              }
            ]
          }
        ],
        "code": {
          "coding": [
            {
              "code": "24357-6",
```

```
        "display": "Urinalysis macro (dipstick) panel - Urine",
        "system": "http://loinc.org"
    }
  ]
},
"effectiveDateTime": "2015-06-22T00:00:00+00:00",
"encounter": {
  "reference": "Encounter/1"
},
"issued": "2015-06-22T00:00:00+00:00",
"performer": [
  {
    "reference": "Practitioner/2"
  }
],
"result": [
  {
    "reference": "Observation/labresult-3"
  }
],
"status": "unknown",
"subject": {
  "reference": "Patient/1"
}
},
"search": {
  "mode": "match"
}
},
"link": [
  {
    "relation": "self",
    "url":
"https://api.onetouchemr.com/fhir/r4/DiagnosticReport?patient=1"
  }
],
"total": 1,
"type": "searchset"
}
```

## 15 DocumentReference Read

Read DocumentReference resource with ID pn-1:

```
GET https://api.onetouchemr.com/fhir/r4/DocumentReference/pn-1
```

Example Response:

```
{
  "resourceType": "DocumentReference",
  "id": "pn-1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-documentreference"
    ]
  },
  "author": [
    {
      "reference": "Practitioner/2"
    }
  ],
  "category": [
    {
      "coding": [
        {
          "code": "clinical-note",
          "display": "Clinical Note",
          "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category"
        }
      ]
    }
  ],
  "content": [
    {
      "attachment": {
        "contentType": "text/plain; charset=UTF-8",
        "data": "RHIgQWxiZXJ0IERhdmlzIGV4YW1pbmVkaWVzIEFsawNlIE5ld21hbiBhbmQgZm91bmQgdGhhdCB0aGUgcGFjZW1ha2VyIGlzIG9wZXJhdGluZyBwcm9wZXJseSBhbmQgdGhlIGJyZWV0aGxlc3NuZXRhbnhpZGR1ZSB0byBoaWdoIGZldmVyaWVzIGFuZCBhbnhpZXR5Lg==",
      }
    }
  ]
}
```

```
    "title": "pn-1.txt"
  },
  "format": {
    "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",
    "display": "mimeType Sufficient",
    "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem"
  }
},
],
"context": {
  "encounter": [
    {
      "reference": "Encounter/0"
    }
  ],
  "period": {
    "start": "1970-01-01T00:00:00+00:00"
  }
},
"custodian": {
  "reference": "Organization/1"
},
"date": "2015-06-22T00:00:00+00:00",
"identifier": [
  {
    "system": "https://api.onetouchemr.com",
    "value": "pn-1"
  }
],
"status": "current",
"subject": {
  "reference": "Patient/1"
},
"type": {
  "coding": [
    {
      "code": "28570-0",
      "display": "Procedure note",
      "system": "http://loinc.org"
    }
  ]
},
"text": "Procedure note"
}
```

## 16 DocumentReference Search

```
GET https://api.onetouchemr.com/fhir/r4/DocumentReference?type=11488-4
```

Or using the POST method:

```
POST https://api.onetouchemr.com/fhir/r4/DocumentReference/_search
Content-Type: application/x-www-form-urlencoded
```

```
type=11488-4
```

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-10T06:15:38+00:00"
  },
  "entry": [
    {
      "fullUrl":
"https://api.onetouchemr.com/fhir/r4/DocumentReference/pn-4",
      "resource": {
        "resourceType": "DocumentReference",
        "id": "pn-4",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:13+00:00",
          "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-documentreference"
          ]
        },
        "author": [
          {
            "reference": "Practitioner/2"
          }
        ],
        "category": [
          {
            "coding": [
              {
                "code": "clinical-note",
                "display": "Clinical Note",

```

```

        "system":
"http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category"
    }
  ]
}
],
"content": [
  {
    "attachment": {
      "contentType": "text/plain; charset=UTF-8",
      "data":
"RHIGQWxiZXJ0IERhdmlzIGRpYWdub3NlZCBncyBIYXBweSBLaWQgdG8gYmUgc3VmZmVyaW5nIG
Zyb20gRmV2ZXIgaW5kIHh1c3B1Y3RlZCBQbmV1bW9uaWEGYW5kIHJlY29tbWVuZGVkIGFkbWlzc
2lubiB0byB0aGUgQ29tbXVuaXR5IEh1YX0aCBib3NwaXRhbHMuIFRoZSBus3RlIHdhcyByZWNV
cmRlZCBvbiAyMm5kIEp1bmUgYXQgMTE6MDAgYW0gRVQu",
      "title": "pn-4.txt"
    },
    "format": {
      "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",
      "display": "mimeType Sufficient",
      "system":
"http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem"
    }
  }
],
"context": {
  "encounter": [
    {
      "reference": "Encounter/0"
    }
  ],
  "period": {
    "start": "1970-01-01T00:00:00+00:00"
  }
},
"custodian": {
  "reference": "Organization/1"
},
"date": "2020-06-22T00:00:00+00:00",
"identifier": [
  {
    "system": "https://api.onetouchemr.com",
    "value": "pn-4"
  }
]

```

```

    ],
    "status": "current",
    "subject": {
      "reference": "Patient/3"
    },
    "type": {
      "coding": [
        {
          "code": "11488-4",
          "display": "Consult note",
          "system": "http://loinc.org"
        }
      ],
      "text": "Consult note"
    },
    "search": {
      "mode": "match"
    }
  }
],
"link": [
  {
    "relation": "self",
    "url":
"https://api.onetouchemr.com/fhir/r4/DocumentReference?type=11488-4"
  }
],
"total": 1,
"type": "searchset"
}

```

## 17 Encounter Read

Read Encounter resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/Encounter/1
```

Example Response:

```
{
  "resourceType": "Encounter",
```

```
"id": "1",
"meta": {
  "lastUpdated": "2026-01-20T03:24:12+00:00",
  "profile": [
    "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-encounter"
  ]
},
"class": {
  "code": "AMB",
  "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode"
},
"hospitalization": {
  "dischargeDisposition": {
    "coding": [
      {
        "code": "unknown",
        "display": "Unknown",
        "system":
"http://terminology.hl7.org/CodeSystem/data-absent-reason"
      }
    ],
    "text": "unknown"
  }
},
"identifier": [
  {
    "system": "https://api.onetouchemr.com",
    "value": "1"
  }
],
"location": [
  {
    "location": {
      "display": "Neighborhood Physicians Practice",
      "reference": "Location/1"
    }
  }
],
"participant": [
  {
    "individual": {
      "display": "Dr. Albert Davis",
      "reference": "Practitioner/2"
    }
  }
]
```

```

    },
    "period": {
      "end": "2015-06-22T00:00:00+00:00",
      "start": "2015-06-22T00:00:00+00:00"
    },
    },
    "type": [
      {
        "coding": [
          {
            "code": "PPRF",
            "display": "primary performer",
            "system":
"http://terminology.hl7.org/CodeSystem/v3-ParticipationType"
          }
        ],
        "text": "primary performer"
      }
    ]
  }
],
"period": {
  "end": "2015-06-22T00:00:00+00:00",
  "start": "2015-06-22T00:00:00+00:00"
},
"reasonCode": [
  {
    "text": "Fever - Finding"
  }
],
"serviceProvider": {
  "display": "St. Mary Clinic",
  "reference": "Organization/1"
},
"status": "finished",
"subject": {
  "display": "Alice Newman",
  "reference": "Patient/1"
},
"type": [
  {
    "coding": [
      {
        "code": "453701000124103",
        "display": "In-person encounter",

```

```

        "system": "http://snomed.info/sct"
      }
    ],
    "text": "In-person encounter"
  }
]
}

```

## 18 Encounter Search

GET <https://api.onetouchemr.com/fhir/r4/Encounter?patient=2>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/Encounter/\\_search](https://api.onetouchemr.com/fhir/r4/Encounter/_search)  
 Content-Type: application/x-www-form-urlencoded

patient=2

Example Response:

```

{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-12T08:32:17+00:00"
  },
  "entry": [
    {
      "fullUrl": "https://api.onetouchemr.com/fhir/r4/Encounter/1",
      "resource": {
        "resourceType": "Encounter",
        "id": "1",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:12+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-encounter"
          ]
        },
        "class": {
          "code": "AMB",
          "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode"
        },
        "hospitalization": {

```

```
    "dischargeDisposition": {
      "coding": [
        {
          "code": "unknown",
          "display": "Unknown",
          "system":
"http://terminology.hl7.org/CodeSystem/data-absent-reason"
        }
      ],
      "text": "unknown"
    },
    "identifier": [
      {
        "system": "https://api.onetouchemr.com",
        "value": "1"
      }
    ],
    "location": [
      {
        "location": {
          "display": "Neighborhood Physicians Practice",
          "reference": "Location/1"
        }
      }
    ],
    "participant": [
      {
        "individual": {
          "display": "Dr. Albert Davis",
          "reference": "Practitioner/2"
        },
        "period": {
          "end": "2015-06-22T00:00:00+00:00",
          "start": "2015-06-22T00:00:00+00:00"
        },
        "type": [
          {
            "coding": [
              {
                "code": "PPRF",
                "display": "primary performer",
                "system":
"http://terminology.hl7.org/CodeSystem/v3-ParticipationType"
              }
            ]
          }
        ]
      }
    ]
  }
}
```

```

        }
      ],
      "text": "primary performer"
    }
  ]
}
],
"period": {
  "end": "2015-06-22T00:00:00+00:00",
  "start": "2015-06-22T00:00:00+00:00"
},
"reasonCode": [
  {
    "text": "Fever - Finding"
  }
],
"serviceProvider": {
  "display": "St. Mary Clinic",
  "reference": "Organization/1"
},
"status": "finished",
"subject": {
  "display": "Alice Newman",
  "reference": "Patient/1"
},
"type": [
  {
    "coding": [
      {
        "code": "453701000124103",
        "display": "In-person encounter",
        "system": "http://snomed.info/sct"
      }
    ],
    "text": "In-person encounter"
  }
],
"search": {
  "mode": "match"
}
},
"link": [

```

```
{
  "relation": "self",
  "url":
  "https://api.onetouchemr.com/fhir/r4/Encounter?patient=1&_count=10&_page=1"
},
"total": 1,
"type": "searchset"
}
```

## 19 Goal Read

Read Goal resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/Goal/1
```

Example Response:

```
{
  "resourceType": "Goal",
  "id": "1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-goal"
    ]
  },
  "description": {
    "text": "Get rid of intermittent fever that is occurring every few weeks."
  },
  "lifecycleStatus": "active",
  "subject": {
    "reference": "Patient/1"
  },
  "target": [
    {
      "dueDate": "2015-06-22"
    }
  ]
}
```

## 20 Goal Search

```
GET https://api.onetouchemr.com/fhir/r4/Goal?patient=3
```

Or using the POST method:

```
POST https://api.onetouchemr.com/fhir/r4/Goal/_search
```

```
Content-Type: application/x-www-form-urlencoded
```

```
patient=3
```

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-12T09:17:48+00:00"
  },
  "entry": [
    {
      "fullUrl": "https://api.onetouchemr.com/fhir/r4/Goal/4",
      "resource": {
        "resourceType": "Goal",
        "id": "4",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:13+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-goal"
          ]
        },
        "description": {
          "text": "Get rid of intermittent fever that is occurring every few weeks."
        },
        "lifecycleStatus": "active",
        "subject": {
          "reference": "Patient/3"
        },
        "target": [
          {
            "dueDate": "2020-06-22"
          }
        ]
      },
      "search": {
        "mode": "match"
      }
    }
  ]
}
```

```
    },
    {
      "fullUrl": "https://api.onetouchemr.com/fhir/r4/Goal/5",
      "resource": {
        "resourceType": "Goal",
        "id": "5",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:13+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-goal"
          ]
        },
        "description": {
          "text": "Need to gain more energy to do regular activities"
        },
        "lifecycleStatus": "active",
        "subject": {
          "reference": "Patient/3"
        },
        "target": [
          {
            "dueDate": "2020-06-22"
          }
        ]
      },
      "search": {
        "mode": "match"
      }
    }
  ],
  "link": [
    {
      "relation": "self",
      "url":
        "https://api.onetouchemr.com/fhir/r4/Goal?patient=3&_count=10&_page=1"
    }
  ],
  "total": 2,
  "type": "searchset"
}
```

## 21 Immunization Read

Read Immunization resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/Immunization/1
```

Example Response:

```
{
  "resourceType": "Immunization",
  "id": "1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-immunization"
    ]
  },
  "occurrenceDateTime": "2012-01-04T00:00:00+00:00",
  "patient": {
    "reference": "Patient/1"
  },
  "primarySource": false,
  "status": "completed",
  "vaccineCode": {
    "coding": [
      {
        "code": "106",
        "display": "diphtheria, tetanus toxoids and acellular pertussis vaccine, 5 pertussis antigens",
        "system": "http://hl7.org/fhir/sid/cvx"
      }
    ],
    "text": "Tetanus and diphtheria toxoids"
  }
}
```

## 22 Immunization Search

```
GET https://api.onetouchemr.com/fhir/r4/Immunization?patient=1
```

Or using the POST method:

POST https://api.onetouchemr.com/fhir/r4/Immunization/\_search  
Content-Type: application/x-www-form-urlencoded

patient=1

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-12T09:37:35+00:00"
  },
  "entry": [
    {
      "fullUrl": "https://api.onetouchemr.com/fhir/r4/Immunization/1",
      "resource": {
        "resourceType": "Immunization",
        "id": "1",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:12+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-immunization"
          ]
        },
        "occurrenceDateTime": "2012-01-04T00:00:00+00:00",
        "patient": {
          "reference": "Patient/1"
        },
        "primarySource": false,
        "status": "completed",
        "vaccineCode": {
          "coding": [
            {
              "code": "106",
              "display": "diphtheria, tetanus toxoids and acellular pertussis vaccine, 5 pertussis antigens",
              "system": "http://hl7.org/fhir/sid/cvx"
            }
          ],
          "text": "Tetanus and diphtheria toxoids"
        }
      }
    },
    {
      "search": {
```

```

    "mode": "match"
  }
},
{
  "fullUrl": "https://api.onetouchemr.com/fhir/r4/Immunization/2",
  "resource": {
    "resourceType": "Immunization",
    "id": "2",
    "meta": {
      "lastUpdated": "2026-01-20T03:24:12+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-immunization"
      ]
    },
    "occurrenceDateTime": "2015-06-22T00:00:00+00:00",
    "patient": {
      "reference": "Patient/1"
    },
    "primarySource": false,
    "status": "not-done",
    "statusReason": {
      "coding": [
        {
          "code": "PATOBJ",
          "display": "patient objection",
          "system": "http://terminology.hl7.org/CodeSystem/v3-ActReason"
        }
      ],
      "text": "patient objection"
    },
    "vaccineCode": {
      "coding": [
        {
          "code": "166",
          "display": "influenza, intradermal, quadrivalent, preservative free, injectable",
          "system": "http://hl7.org/fhir/sid/cvx"
        }
      ],
      "text": "influenza, intradermal, quadrivalent, preservative free"
    }
  }
}

```

```

    },
    "search": {
      "mode": "match"
    }
  }
],
"link": [
  {
    "relation": "self",
    "url":
"https://api.onetouchemr.com/fhir/r4/Immunization?patient=1&_count=10&_page=1"
  }
],
"total": 2,
"type": "searchset"
}

```

## 23 Location Read

Read Location resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/Location/1
```

Example Response:

```

{
  "resourceType": "Location",
  "id": "1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-location"
    ]
  },
  "address": {
    "city": "Beaverton",
    "country": "US",
    "line": [
      "2472"
    ]
  },

```

```
    "postalCode": "97006",
    "state": "OR"
  },
  "identifier": [
    {
      "system": "https://api.onetouchemr.com",
      "value": "1"
    }
  ],
  "managingOrganization": {
    "display": "St. Mary Clinic"
  },
  "name": "Neighborhood Physicians Practice",
  "telecom": [
    {
      "system": "phone",
      "value": "555-555-1002"
    }
  ]
}
```

## 24 Location Search

GET

<https://api.onetouchemr.com/fhir/r4/Location?name=Neighborhood+Physicians+Practice>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/Location/\\_search](https://api.onetouchemr.com/fhir/r4/Location/_search)

Content-Type: application/x-www-form-urlencoded

name=Neighborhood+Physicians+Practice

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-12T10:13:59+00:00"
  },
  "entry": [
    {
```

```
"fullUrl": "https://api.onetouchemr.com/fhir/r4/Location/1",
"resource": {
  "resourceType": "Location",
  "id": "1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-location"
    ]
  },
  "address": {
    "city": "Beaverton",
    "country": "US",
    "line": [
      "2472"
    ],
    "postalCode": "97006",
    "state": "OR"
  },
  "identifier": [
    {
      "system": "https://api.onetouchemr.com",
      "value": "1"
    }
  ],
  "managingOrganization": {
    "display": "St. Mary Clinic"
  },
  "name": "Neighborhood Physicians Practice",
  "telecom": [
    {
      "system": "phone",
      "value": "555-555-1002"
    }
  ]
},
"search": {
  "mode": "match"
}
}
],
"link": [
  {
```

```
    "relation": "self",
    "url":
"https://api.onetouchemr.com/fhir/r4/Location?name=Neighborhood+Physicians+
Practice"
  }
],
"total": 1,
"type": "searchset"
}
```

## 25 MedicationDispense Read

Read MedicationDispense resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/MedicationDispense/1
```

Example Response:

```
{
  "resourceType": "MedicationDispense",
  "id": "1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:14+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-medicationdispense"
    ]
  },
  "authorizingPrescription": [
    {
      "reference": "MedicationRequest/6"
    }
  ],
  "dosageInstruction": [
    {
      "doseAndRate": [
        {
          "doseQuantity": {
            "code": "tab",
            "system": "http://unitsofmeasure.org",
            "unit": "tab",
```

```

        "value": 1
      }
    ],
    "sequence": 1,
    "text": "1 tab PO Q day",
    "timing": {
      "code": {
        "text": "Q day"
      }
    }
  },
  ],
  "medicationCodeableConcept": {
    "coding": [
      {
        "code": "314076",
        "display": "Lisinopril 10 MG Oral Tablet",
        "system": "http://www.nlm.nih.gov/research/umls/rxnorm"
      }
    ],
    "text": "Lisinopril 10 MG Oral Tablet"
  },
  "performer": [
    {
      "actor": {
        "display": "CVS Pharmacy #1234",
        "identifier": {
          "system":
"http://terminology.hl7.org/CodeSystem/NCPDPPProviderIdentificationNumber",
          "value": "1234567"
        },
        "reference": "Organization/pharmacy-1"
      }
    }
  ],
  "quantity": {
    "value": 30
  },
  "status": "completed",
  "subject": {
    "reference": "Patient/5"
  },
  "type": {

```

```
"coding": [
  {
    "code": "RF",
    "display": "Refill",
    "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode"
  }
],
"whenHandedOver": "2026-01-20T03:24:14+00:00"
}
```

## 26 MedicationDispense Search

GET <https://api.onetouchemr.com/fhir/r4/MedicationDispense?patient=5>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/MedicationDispense/\\_search](https://api.onetouchemr.com/fhir/r4/MedicationDispense/_search)  
Content-Type: application/x-www-form-urlencoded

patient=5

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-13T10:30:42+00:00"
  },
  "entry": [
    {
      "fullUrl":
"https://api.onetouchemr.com/fhir/r4/MedicationDispense/1",
      "resource": {
        "resourceType": "MedicationDispense",
        "id": "1",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:14+00:00",
          "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-medicationdispense"
          ]
        }
      }
    }
  ]
}
```

```
},
"authorizingPrescription": [
  {
    "reference": "MedicationRequest/6"
  }
],
"dosageInstruction": [
  {
    "doseAndRate": [
      {
        "doseQuantity": {
          "code": "tab",
          "system": "http://unitsofmeasure.org",
          "unit": "tab",
          "value": 1
        }
      }
    ],
    "sequence": 1,
    "text": "1 tab PO Q day",
    "timing": {
      "code": {
        "text": "Q day"
      }
    }
  }
],
"medicationCodeableConcept": {
  "coding": [
    {
      "code": "314076",
      "display": "Lisinopril 10 MG Oral Tablet",
      "system": "http://www.nlm.nih.gov/research/umls/rxnorm"
    }
  ],
  "text": "Lisinopril 10 MG Oral Tablet"
},
"performer": [
  {
    "actor": {
      "display": "CVS Pharmacy #1234",
      "identifier": {
        "system":
"http://terminology.hl7.org/CodeSystem/NCPDPPProviderIdentificationNumber",
```

```

        "value": "1234567"
      },
      "reference": "Organization/pharmacy-1"
    }
  ],
  "quantity": {
    "value": 30
  },
  "status": "completed",
  "subject": {
    "reference": "Patient/5"
  },
  "type": {
    "coding": [
      {
        "code": "RF",
        "display": "Refill",
        "system": "http://terminology.hl7.org/CodeSystem/v3-ActionCode"
      }
    ]
  },
  "whenHandedOver": "2026-01-20T03:24:14+00:00"
},
"search": {
  "mode": "match"
}
},
{
  "fullUrl":
"https://api.onetouchemr.com/fhir/r4/MedicationDispense/2",
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "2",
    "meta": {
      "lastUpdated": "2026-01-20T03:24:14+00:00",
      "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-medicationdispense"
      ]
    },
    "authorizingPrescription": [
      {

```

```
    "reference": "MedicationRequest/7"
  }
],
"dosageInstruction": [
  {
    "doseAndRate": [
      {
        "doseQuantity": {
          "code": "tab",
          "system": "http://unitsofmeasure.org",
          "unit": "tab",
          "value": 1
        }
      }
    ],
    "sequence": 1,
    "text": "1 tab PO Q day",
    "timing": {
      "code": {
        "text": "Q day"
      }
    }
  }
],
"medicationCodeableConcept": {
  "coding": [
    {
      "code": "860974",
      "display": "Metformin Hydrochloride 500 MG Oral Tablet",
      "system": "http://www.nlm.nih.gov/research/umls/rxnorm"
    }
  ],
  "text": "Metformin Hydrochloride 500 MG Oral Tablet"
},
"performer": [
  {
    "actor": {
      "display": "Walgreens #5678",
      "identifier": {
        "system":
"http://terminology.hl7.org/CodeSystem/NCPDPPProviderIdentificationNumber",
        "value": "7654321"
      }
    },
    "reference": "Organization/pharmacy-2"
  }
]
```

```

    }
  }
],
"quantity": {
  "value": 30
},
"status": "in-progress",
"subject": {
  "reference": "Patient/5"
},
"type": {
  "coding": [
    {
      "code": "RF",
      "display": "Refill",
      "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode"
    }
  ]
},
"whenHandedOver": "2026-01-20T03:24:14+00:00"
},
"search": {
  "mode": "match"
}
},
{
  "fullUrl":
https://api.onetouchemr.com/fhir/r4/MedicationDispense/3,
  "resource": {
    "resourceType": "MedicationDispense",
    "id": "3",
    "meta": {
      "lastUpdated": "2026-01-20T03:24:14+00:00",
      "profile": [
http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-medicationdispense
      ]
    },
    "authorizingPrescription": [
      {
        "reference": "MedicationRequest/8"
      }
    ]
  },
},

```

```

"dosageInstruction": [
  {
    "doseAndRate": [
      {
        "doseQuantity": {
          "code": "tab",
          "system": "http://unitsofmeasure.org",
          "unit": "tab",
          "value": 1
        }
      }
    ],
    "sequence": 1,
    "text": "1 tab PO Q day",
    "timing": {
      "code": {
        "text": "Q day"
      }
    }
  }
],
"medicationCodeableConcept": {
  "coding": [
    {
      "code": "617311",
      "display": "Atorvastatin Calcium 20 MG Oral Tablet",
      "system": "http://www.nlm.nih.gov/research/umls/rxnorm"
    }
  ],
  "text": "Atorvastatin Calcium 20 MG Oral Tablet"
},
"performer": [
  {
    "actor": {
      "display": "CVS Pharmacy #1234",
      "identifier": {
        "system":
"http://terminology.hl7.org/CodeSystem/NCPDPPProviderIdentificationNumber",
        "value": "1234567"
      }
    },
    "reference": "Organization/pharmacy-1"
  }
]

```

```

    "status": "declined",
    "subject": {
      "reference": "Patient/5"
    },
    "type": {
      "coding": [
        {
          "code": "RF",
          "display": "Refill",
          "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode"
        }
      ]
    },
    "whenHandedOver": "2026-01-20T03:24:14+00:00"
  },
  "search": {
    "mode": "match"
  }
}
],
"link": [
  {
    "relation": "self",
    "url":
    "https://api.onetouchemr.com/fhir/r4/MedicationDispense?patient=5&_count=10
    &_page=1"
  }
],
"total": 3,
"type": "searchset"
}

```

## 27 MedicationRequest Read

Read MedicationRequest resource with ID 6:

```
GET https://api.onetouchemr.com/fhir/r4/MedicationDispense/6
```

Example Response:

```
{
  "resourceType": "MedicationRequest",
```

```

"id": "6",
"meta": {
  "lastUpdated": "2026-01-20T03:24:14+00:00",
  "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-medicationrequest"
  ]
},
"contained": [
  {
    "resourceType": "Medication",
    "id": "med-6",
    "code": {
      "coding": [
        {
          "code": "314076",
          "display": "Lisinopril 10 MG Oral Tablet",
          "system": "http://www.nlm.nih.gov/research/umls/rxnorm"
        }
      ],
      "text": "Lisinopril 10 MG Oral Tablet"
    }
  }
],
"authoredOn": "2025-01-15T00:00:00+00:00",
"category": [
  {
    "coding": [
      {
        "code": "outpatient",
        "display": "Outpatient",
        "system":
"http://terminology.hl7.org/CodeSystem/medicationrequest-category"
      }
    ],
    "text": "Outpatient"
  }
],
"dispenseRequest": {
  "numberOfRepeatsAllowed": 0,
  "quantity": {
    "value": 1
  }
}

```

```

},
"dosageInstruction": [
  {
    "doseAndRate": [
      {
        "doseQuantity": {
          "code": "tab",
          "system": "http://unitsofmeasure.org",
          "unit": "tab",
          "value": 1
        }
      }
    ],
    "sequence": 1,
    "text": "1 tab PO Q day",
    "timing": {
      "code": {
        "text": "Q day"
      }
    }
  }
],
"encounter": {
  "reference": "Encounter/5"
},
"intent": "original-order",
"medicationReference": {
  "display": "Lisinopril 10 MG Oral Tablet",
  "reference": "#med-6"
},
"reportedBoolean": true,
"requester": {
  "reference": "Patient/5"
},
"status": "unknown",
"subject": {
  "reference": "Patient/5"
}
}

```

## 28 MedicationRequest Search

```
GET https://api.onetouchemr.com/fhir/r4/MedicationRequest?patient=1
```

Or using the POST method:

```
POST https://api.onetouchemr.com/fhir/r4/MedicationRequest/_search
```

```
Content-Type: application/x-www-form-urlencoded
```

```
patient=1
```

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-16T10:17:53+00:00"
  },
  "entry": [
    {
      "fullUrl": "https://api.onetouchemr.com/fhir/r4/MedicationRequest/1",
      "resource": {
        "resourceType": "MedicationRequest",
        "id": "1",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:13+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-medicationrequest"
          ]
        },
        "contained": [
          {
            "resourceType": "Medication",
            "id": "med-1",
            "code": {
              "coding": [
                {
                  "code": "309090",
                  "display": "Ceftriaxone 100 MG/ML",
                  "system": "http://www.nlm.nih.gov/research/umls/rxnorm"
                }
              ],
              "text": "Ceftriaxone 100 MG/ML"
            }
          }
        ]
      }
    }
  ],
}
```

```
"authoredOn": "2015-06-22T00:00:00+00:00",
"category": [
  {
    "coding": [
      {
        "code": "outpatient",
        "display": "Outpatient",
        "system":
"http://terminology.hl7.org/CodeSystem/medicationrequest-category"
      }
    ],
    "text": "Outpatient"
  }
],
"dispenseRequest": {
  "numberOfRepeatsAllowed": 2,
  "quantity": {
    "value": 1
  }
},
"dosageInstruction": [
  {
    "doseAndRate": [
      {
        "doseQuantity": {
          "code": "unit",
          "system": "http://unitsofmeasure.org",
          "unit": "unit",
          "value": 1
        }
      }
    ],
    "sequence": 1,
    "text": "1 unit Inj Q day",
    "timing": {
      "code": {
        "text": "Q day"
      }
    }
  }
],
"encounter": {
  "reference": "Encounter/1"
},
```

```

    "intent": "instance-order",
    "medicationReference": {
      "display": "Ceftriaxone 100 MG/ML",
      "reference": "#med-1"
    },
    "reasonCode": [
      {
        "coding": [
          {
            "code": "R50.9",
            "system": "http://hl7.org/fhir/sid/icd-10-cm"
          }
        ]
      }
    ],
    "reasonReference": [
      {
        "reference": "Condition/ed-1"
      }
    ],
    "reportedBoolean": true,
    "requester": {
      "reference": "Patient/1"
    },
    "status": "completed",
    "subject": {
      "reference": "Patient/1"
    }
  },
  "search": {
    "mode": "match"
  }
},
{
  "fullUrl": "https://api.onetouchemr.com/fhir/r4/MedicationRequest/2",
  "resource": {
    "resourceType": "MedicationRequest",
    "id": "2",
    "meta": {
      "lastUpdated": "2026-01-20T03:24:13+00:00",
      "profile": [
        "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-medicationr
equest"
      ]
    }
  }
}

```

```
]
},
"contained": [
  {
    "resourceType": "Medication",
    "id": "med-2",
    "code": {
      "coding": [
        {
          "code": "209459",
          "display": "Tylenol 500mg",
          "system": "http://www.nlm.nih.gov/research/umls/rxnorm"
        }
      ],
      "text": "Tylenol 500mg"
    }
  }
],
"authoredOn": "2015-06-22T00:00:00+00:00",
"category": [
  {
    "coding": [
      {
        "code": "outpatient",
        "display": "Outpatient",
        "system":
"http://terminology.hl7.org/CodeSystem/medicationrequest-category"
      }
    ],
    "text": "Outpatient"
  }
],
"dispenseRequest": {
  "numberOfRepeatsAllowed": 0,
  "quantity": {
    "value": 1
  }
},
"dosageInstruction": [
  {
    "doseAndRate": [
      {
        "doseQuantity": {
          "code": "unit",

```

```
        "system": "http://unitsofmeasure.org",
        "unit": "unit",
        "value": 1
      }
    ],
    "sequence": 1,
    "text": "1 unit PO As needed",
    "timing": {
      "code": {
        "text": "As needed"
      }
    }
  },
  "encounter": {
    "reference": "Encounter/1"
  },
  "intent": "instance-order",
  "medicationReference": {
    "display": "Tylenol 500mg",
    "reference": "#med-2"
  },
  "reasonCode": [
    {
      "coding": [
        {
          "code": "R50.9",
          "system": "http://hl7.org/fhir/sid/icd-10-cm"
        }
      ]
    }
  ],
  "reasonReference": [
    {
      "reference": "Condition/ed-1"
    }
  ],
  "reportedBoolean": true,
  "requester": {
    "reference": "Patient/1"
  },
  "status": "unknown",
  "subject": {
```

```

        "reference": "Patient/1"
      }
    },
    "search": {
      "mode": "match"
    }
  }
],
"link": [
  {
    "relation": "self",
    "url":
"https://api.onetouchemr.com/fhir/r4/MedicationRequest?patient=1"
  }
],
"total": 2,
"type": "searchset"
}

```

## 29 Observation Read

Read Observation resource with ID weight-4:

```
GET https://api.onetouchemr.com/fhir/r4/Observation/weight-4
```

Example Response:

```

{
  "resourceType": "Observation",
  "id": "weight-4",
  "meta": {
    "lastUpdated": "2025-05-22T14:05:00+00:00",
    "profile": [
      "http://hl7.org/fhir/StructureDefinition/bodyweight"
    ]
  },
  "category": [
    {
      "coding": [
        {
          "code": "vital-signs",
          "display": "Vital Signs",

```

```

      "system":
"http://terminology.hl7.org/CodeSystem/observation-category"
    }
  ],
  "text": "Vital Signs"
}
],
"code": {
  "coding": [
    {
      "code": "29463-7",
      "system": "http://loinc.org"
    }
  ]
},
"effectiveDateTime": "2025-05-22T14:05:00+00:00",
"encounter": {
  "reference": "Encounter/5"
},
"status": "final",
"subject": {
  "reference": "Patient/5"
},
"valueQuantity": {
  "code": "kg",
  "system": "http://unitsofmeasure.org",
  "unit": "kilograms",
  "value": 82
}
}

```

### 30 Observation Search

GET <https://api.onetouchemr.com/fhir/r4/Observation?category=laboratory>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/Observation/\\_search](https://api.onetouchemr.com/fhir/r4/Observation/_search)  
 Content-Type: application/x-www-form-urlencoded

category=laboratory

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-18T05:32:56+00:00"
  },
  "entry": [
    {
      "fullUrl":
"https://api.onetouchemr.com/fhir/r4/Observation/labresult-9",
      "resource": {
        "resourceType": "Observation",
        "id": "labresult-9",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:14+00:00",
          "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-observation-lab"
          ]
        },
        "category": [
          {
            "coding": [
              {
                "code": "laboratory",
                "display": "Laboratory",
                "system":
"http://terminology.hl7.org/CodeSystem/observation-category"
              }
            ],
            "text": "Laboratory"
          }
        ],
        "code": {
          "coding": [
            {
              "code": "5797-6",
              "system": "http://loinc.org"
            }
          ]
        },
        "effectiveDateTime": "2025-05-22T11:11:00+00:00",
        "encounter": {
```

```

    "reference": "Encounter/5"
  },
  "issued": "2025-05-22T11:11:00+00:00",
  "specimen": {
    "display": "Urine",
    "reference": "Specimen/labresult-9"
  },
  "status": "final",
  "subject": {
    "reference": "Patient/5"
  },
  "valueCodeableConcept": {
    "coding": [
      {
        "code": "LA11884-4",
        "display": "Negative",
        "system": "http://loinc.org"
      }
    ],
    "text": "Negative"
  },
  "search": {
    "mode": "match"
  },
  {
    "fullUrl":
"https://api.onetouchemr.com/fhir/r4/Observation/labresult-10",
    "resource": {
      "resourceType": "Observation",
      "id": "labresult-10",
      "meta": {
        "lastUpdated": "2026-01-20T03:24:14+00:00",
        "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-observation-lab"
        ]
      },
      "category": [
        {
          "coding": [
            {

```

```

        "code": "laboratory",
        "display": "Laboratory",
        "system":
"http://terminology.hl7.org/CodeSystem/observation-category"
    }
  ],
  "text": "Laboratory"
}
],
"code": {
  "coding": [
    {
      "code": "5775-2",
      "system": "http://loinc.org"
    }
  ]
},
"effectiveDateTime": "2025-05-22T11:30:00+00:00",
"encounter": {
  "reference": "Encounter/5"
},
"issued": "2025-05-22T11:30:00+00:00",
"specimen": {
  "display": "Urine Sediment",
  "reference": "Specimen/labresult-10"
},
"status": "final",
"subject": {
  "reference": "Patient/5"
},
"valueString": "Few epithelial cells seen; occasional bacteria
noted."
},
"search": {
  "mode": "match"
}
},
{
  "fullUrl":
"http://api.onetouchemr.com/fhir/r4/Observation/labresult-3",
  "resource": {
    "resourceType": "Observation",
    "id": "labresult-3",
    "meta": {

```

```

    "lastUpdated": "2026-01-20T03:24:13+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-observation-lab"
    ]
  },
  "category": [
    {
      "coding": [
        {
          "code": "laboratory",
          "display": "Laboratory",
          "system": "http://terminology.hl7.org/CodeSystem/observation-category"
        }
      ],
      "text": "Laboratory"
    }
  ],
  "code": {
    "coding": [
      {
        "code": "24357-6",
        "system": "http://loinc.org"
      }
    ]
  },
  "component": [
    {
      "code": {
        "coding": [
          {
            "code": "5778-6",
            "display": "Color of Urine",
            "system": "http://loinc.org"
          }
        ]
      },
      "referenceRange": [
        {
          "text": "YELLOW"
        }
      ]
    }
  ],

```

```
    "valueString": "YELLOW"
  },
  {
    "code": {
      "coding": [
        {
          "code": "5767-9",
          "display": "Appearance of Urine",
          "system": "http://loinc.org"
        }
      ]
    },
    "referenceRange": [
      {
        "text": "CLEAR"
      }
    ],
    "valueString": "CLEAR"
  },
  {
    "code": {
      "coding": [
        {
          "code": "5811-5",
          "display": "Specific gravity of Urine by Test strip",
          "system": "http://loinc.org"
        }
      ]
    },
    "referenceRange": [
      {
        "high": {
          "value": 1.03
        },
        "low": {
          "value": 1.005
        }
      }
    ],
    "valueString": "1.015"
  },
  {
    "code": {
      "coding": [
```

```

        {
          "code": "5803-2",
          "display": "pH of Urine by Test strip",
          "system": "http://loinc.org"
        }
      ]
    },
    "referenceRange": [
      {
        "high": {
          "unit": "[pH]",
          "value": 8
        },
        "low": {
          "unit": "[pH]",
          "value": 5
        }
      }
    ],
    "valueQuantity": {
      "code": "[pH]",
      "system": "http://unitsofmeasure.org",
      "unit": "[pH]",
      "value": 5
    }
  },
  {
    "code": {
      "coding": [
        {
          "code": "5792-7",
          "display": "Glucose [Mass/volume] in urine by test
strip",
          "system": "http://loinc.org"
        }
      ]
    },
    "referenceRange": [
      {
        "text": "Neg"
      }
    ],
    "valueQuantity": {
      "code": "mg/dL",

```

```
    "system": "http://unitsofmeasure.org",
    "unit": "mg/dL",
    "value": 50
  }
},
{
  "code": {
    "coding": [
      {
        "code": "5797-6",
        "display": "Ketones [Mass/Volume] in urine by test
strip",
        "system": "http://loinc.org"
      }
    ]
  },
  "referenceRange": [
    {
      "text": "Negative"
    }
  ],
  "valueString": "Negative"
},
{
  "code": {
    "coding": [
      {
        "code": "5804-0",
        "display": "Protein[Mass/Volume] in urine by test strip",
        "system": "http://loinc.org"
      }
    ]
  },
  "valueQuantity": {
    "code": "mg/dL",
    "system": "http://unitsofmeasure.org",
    "unit": "mg/dL",
    "value": 100
  }
}
],
"effectiveDateTime": "2015-06-22T00:00:00+00:00",
"encounter": {
  "reference": "Encounter/1"
}
```

```

    },
    "issued": "2015-06-22T00:00:00+00:00",
    "specimen": {
      "display": "Urine",
      "reference": "Specimen/labresult-3"
    },
    "status": "final",
    "subject": {
      "reference": "Patient/1"
    }
  },
  "search": {
    "mode": "match"
  }
},
{
  "fullUrl":
"https://api.onetouchemr.com/fhir/r4/Observation/labresult-8",
  "resource": {
    "resourceType": "Observation",
    "id": "labresult-8",
    "meta": {
      "lastUpdated": "2026-01-20T03:24:14+00:00",
      "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-observation-lab"
      ]
    },
    "category": [
      {
        "coding": [
          {
            "code": "laboratory",
            "display": "Laboratory",
            "system":
"http://terminology.hl7.org/CodeSystem/observation-category"
          }
        ],
        "text": "Laboratory"
      }
    ],
    "code": {
      "coding": [

```

```
    {
      "code": "2345-7",
      "system": "http://loinc.org"
    }
  ]
},
"effectiveDateTime": "2025-05-22T10:30:00+00:00",
"encounter": {
  "reference": "Encounter/5"
},
"issued": "2025-05-22T10:30:00+00:00",
"specimen": {
  "display": "Serum",
  "reference": "Specimen/labresult-8"
},
"status": "final",
"subject": {
  "reference": "Patient/5"
},
"valueQuantity": {
  "code": "mg/dL",
  "system": "http://unitsofmeasure.org",
  "unit": "mg/dL",
  "value": 98
}
},
"search": {
  "mode": "match"
}
}
],
"link": [
  {
    "relation": "self",
    "url":
"https://api.onetouchemr.com/fhir/r4/Observation?category=laboratory"
  }
],
"total": 4,
"type": "searchset"
}
```

## 31 Organization Read

Read Organization resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/Organization/1
```

Example Response:

```
{
  "resourceType": "Organization",
  "id": "1",
  "meta": {
    "lastUpdated": "2021-07-23T02:06:01+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-organization"
    ]
  },
  "active": true,
  "address": [
    {
      "city": "Beaverton",
      "country": "US",
      "line": [
        "2472"
      ],
      "postalCode": "97006",
      "state": "OR"
    }
  ],
  "identifier": [
    {
      "system": "http://local.onetouchemr.com",
      "value": "1"
    },
    {
      "system": "http://hl7.org/fhir/sid/us-npi",
      "value": "1245319599"
    }
  ],
  "name": "St. Mary Clinic",
  "telecom": [
    {
```

```

    "system": "phone",
    "value": "555-555-1002"
  }
],
"type": [
  {
    "coding": [
      {
        "code": "prov",
        "display": "Healthcare Provider",
        "system":
"http://terminology.hl7.org/CodeSystem/organization-type"
      }
    ],
    "text": "Healthcare Provider"
  }
]
}

```

## 32 Organization Search

GET

<https://api.onetouchemr.com/fhir/r4/Organization?name=example+payer+organization>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/Organization/\\_search](https://api.onetouchemr.com/fhir/r4/Organization/_search)

Content-Type: application/x-www-form-urlencoded

name=example+payer+organization

Example Response:

```

{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-18T08:56:50+00:00"
  },
  "entry": [
    {
      "fullUrl":
"http://api.onetouchemr.com/fhir/r4/Organization/ins-1200476",

```

```

"resource": {
  "resourceType": "Organization",
  "id": "ins-1200476",
  "meta": {
    "lastUpdated": "2026-01-07T13:50:37+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-organization"
    ]
  },
  "active": true,
  "address": [
    {
      "city": "Blue Bell",
      "country": "United States",
      "line": [
        "1234 Insurance Road"
      ],
      "state": "MA"
    }
  ],
  "identifier": [
    {
      "system": "urn:oid:2.16.840.1.113883.6.300",
      "value": "99999"
    }
  ],
  "name": "Example Payer Organization",
  "telecom": [
    {
      "system": "phone",
      "value": "(555)555-1515"
    }
  ],
  "type": [
    {
      "coding": [
        {
          "code": "ins",
          "display": "Insurance Company",
          "system":
            "http://terminology.hl7.org/CodeSystem/organization-type"
        }
      ]
    }
  ]
}

```

```

        ],
        "text": "Insurance Company"
    }
]
},
"search": {
    "mode": "match"
}
}
],
"link": [
    {
        "relation": "self",
        "url":
"https://api.onetouchemr.com/fhir/r4/Organization?name=example+payer+organi
zation&_count=10&_page=1"
    }
],
"total": 1,
"type": "searchset"
}

```

### 33 Patient Read

Read Patient resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/Patient/1
```

Example Response:

```

{
  "resourceType": "Patient",
  "id": "1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-patient"
    ]
  },
  "extension": [
    {

```

```

"extension": [
  {
    "url": "ombCategory",
    "valueCoding": {
      "code": "2106-3",
      "display": "White",
      "system": "urn:oid:2.16.840.1.113883.6.238"
    }
  },
  {
    "url": "text",
    "valueString": "White"
  }
],
"url":
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-race"
},
{
  "extension": [
    {
      "url": "ombCategory",
      "valueCoding": {
        "code": "2186-5",
        "display": "Not Hispanic or Latino",
        "system": "urn:oid:2.16.840.1.113883.6.238"
      }
    },
    {
      "url": "text",
      "valueString": "Not Hispanic or Latino"
    }
  ],
  "url":
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-ethnicity"
},
{
  "url":
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-birthsex",
  "valueCode": "F"
},
{
  "extension": [
    {
      "url": "tribalAffiliation",

```

```

    "valueCodeableConcept": {
      "coding": [
        {
          "code": "65",
          "display": "Coquille Indian Tribe",
          "system":
"http://terminology.hl7.org/CodeSystem/v3-TribalEntityUS"
        }
      ]
    },
    "url":
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-tribal-affi-
liation"
  },
  {
    "url":
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-sex",
    "valueCode": "248152002"
  }
],
"address": [
  {
    "city": "Beaverton",
    "country": "US",
    "line": [
      "1357, Amber Dr"
    ],
    "period": {
      "start": "1970-05-01"
    },
    "postalCode": "97006",
    "state": "OR"
  }
],
"birthDate": "1970-05-01",
"communication": [
  {
    "language": {
      "coding": [
        {
          "code": "en",
          "display": "English",

```

```

        "system": "urn:ietf:bcp:47"
      }
    ],
    "text": "English"
  }
}
],
"contact": [
  {
    "name": {
      "family": "Newman",
      "given": [
        "Matthew"
      ]
    },
    "relationship": [
      {
        "coding": [
          {
            "code": "SPS",
            "display": "Spouse",
            "system": "http://terminology.hl7.org/CodeSystem/v2-0131"
          }
        ]
      }
    ]
  },
  {
    "name": {
      "family": "Holler",
      "given": [
        "Rick"
      ]
    },
    "relationship": [
      {
        "coding": [
          {
            "code": "GRPRN",
            "display": "Grandparent",
            "system": "http://terminology.hl7.org/CodeSystem/v2-0131"
          }
        ]
      }
    ]
  }
]
}

```

```
    ]
  }
],
"gender": "female",
"identifier": [
  {
    "system": "https://api.onetouchemr.com",
    "type": {
      "coding": [
        {
          "code": "MR",
          "display": "Medical Record Number",
          "system": "http://terminology.hl7.org/CodeSystem/v2-0203"
        }
      ]
    },
    "value": "1"
  }
],
"name": [
  {
    "family": "Newman",
    "given": [
      "Alicia",
      "Jones"
    ],
    "period": {
      "end": "1970-05-01",
      "start": "1970-05-01"
    }
  },
  {
    "family": "Newman",
    "given": [
      "Alice",
      "Jones"
    ],
    "use": "official"
  }
],
"telecom": [
  {
    "system": "phone",
    "use": "home",
```

```
    "value": "555-723-1544"
  },
  {
    "system": "phone",
    "use": "mobile",
    "value": "555-777-1234"
  }
]
}
```

## 34 Patient Search

GET <https://api.onetouchemr.com/fhir/r4/Patient?name=john>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/Patient/\\_search](https://api.onetouchemr.com/fhir/r4/Patient/_search)

Content-Type: application/x-www-form-urlencoded

name=john

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-18T09:54:01+00:00"
  },
  "entry": [
    {
      "fullUrl": "https://api.onetouchemr.com/fhir/r4/Patient/5",
      "resource": {
        "resourceType": "Patient",
        "id": "5",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:14+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-patient"
          ]
        },

```

```

"extension": [
  {
    "extension": [
      {
        "url": "ombCategory",
        "valueCoding": {
          "code": "2106-3",
          "display": "White",
          "system": "urn:oid:2.16.840.1.113883.6.238"
        }
      },
      {
        "url": "text",
        "valueString": "White"
      }
    ],
    "url":
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-race"
  },
  {
    "extension": [
      {
        "url": "ombCategory",
        "valueCoding": {
          "code": "2186-5",
          "display": "Not Hispanic or Latino",
          "system": "urn:oid:2.16.840.1.113883.6.238"
        }
      },
      {
        "url": "text",
        "valueString": "Not Hispanic or Latino"
      }
    ],
    "url":
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-ethnicity"
  },
  {
    "url":
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-birthsex",
    "valueCode": "M"
  },
  {
    "url":

```

```
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-sex",
  "valueCode": "248153007"
}
],
"address": [
  {
    "city": "Anytown",
    "country": "US",
    "line": [
      "123 Main Street"
    ],
    "period": {
      "start": "1985-03-15"
    },
    "postalCode": "90210",
    "state": "CA"
  }
],
"birthDate": "1985-03-15",
"communication": [
  {
    "language": {
      "coding": [
        {
          "code": "en",
          "display": "English",
          "system": "urn:ietf:bcp:47"
        }
      ],
      "text": "English"
    }
  }
],
"gender": "male",
"identifier": [
  {
    "system": "https://api.onetouchemr.com",
    "type": {
      "coding": [
        {
          "code": "MR",
          "display": "Medical Record Number",
          "system": "http://terminology.hl7.org/CodeSystem/v2-0203"
        }
      ]
    }
  }
]
```

```

        ]
      },
      "value": "9"
    }
  ],
  "name": [
    {
      "family": "Doe",
      "given": [
        "John",
        "Q"
      ],
      "use": "official"
    }
  ],
  "telecom": [
    {
      "extension": [
        {
          "url":
"http://hl7.org/fhir/StructureDefinition/data-absent-reason",
          "valueCode": "unknown"
        }
      ],
      "system": "phone",
      "value": "unknown"
    }
  ]
},
"search": {
  "mode": "match"
}
},
"link": [
  {
    "relation": "self",
    "url":
"https://api.onetouchemr.com/fhir/r4/Patient?name=john&\_count=10&\_page=1"
  }
],
"total": 1,
"type": "searchset"
}

```

## 35 Practitioner Read

Read Practitioner resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/Practitioner/2
```

Example Response:

```
{
  "resourceType": "Practitioner",
  "id": "2",
  "active": true,
  "address": [
    {
      "city": "Beaverton",
      "country": "US",
      "line": [
        "2472",
        "Rocky place"
      ],
      "postalCode": "97006",
      "state": "OR",
      "use": "work"
    }
  ],
  "identifier": [
    {
      "system": "https://api.onetouchemr.com",
      "value": "2"
    },
    {
      "system": "http://hl7.org/fhir/sid/us-npi",
      "value": "9621517249"
    }
  ],
  "name": [
    {
      "family": "Davis",
      "given": [
        "Albert"
      ],
      "prefix": [
```

```
        "Dr."
      ]
    }
  ],
  "telecom": [
    {
      "system": "phone",
      "use": "work",
      "value": "555-555-1002"
    }
  ]
}
```

## 36 Practitioner Search

GET <https://api.onetouchemr.com/fhir/r4/Practitioner?name=jane>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/Practitioner/\\_search](https://api.onetouchemr.com/fhir/r4/Practitioner/_search)  
Content-Type: application/x-www-form-urlencoded

name=jane

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-20T08:52:04+00:00"
  },
  "entry": [
    {
      "fullUrl": "https://api.onetouchemr.com/fhir/r4/Practitioner/17",
      "resource": {
        "resourceType": "Practitioner",
        "id": "17",
        "active": true,
        "address": [
          {
            "city": "Beaverton",
            "country": "US",
            "line": [
              "2472",
```

```
        "Rocky place"
      ],
      "postalCode": "97006",
      "state": "OR",
      "use": "work"
    }
  ],
  "identifier": [
    {
      "system": "https://api.onetouchemr.com",
      "value": "17"
    }
  ],
  "name": [
    {
      "family": "Smith",
      "given": [
        "Jane"
      ],
      "prefix": [
        "Dr"
      ]
    }
  ],
  "telecom": [
    {
      "system": "phone",
      "use": "work",
      "value": "555-555-1001"
    }
  ]
},
"search": {
  "mode": "match"
}
}
],
"link": [
  {
    "relation": "self",
    "url": "https://api.onetouchemr.com/fhir/r4/Practitioner?name=jane"
  }
],
"total": 1,
```

```
"type": "searchset"
}
```

## 37 Procedure Read

Read Procedure resource with ID planproc-1:

```
GET https://api.onetouchemr.com/fhir/r4/Procedure/planproc-1
```

Example Response:

```
{
  "resourceType": "Procedure",
  "id": "planproc-1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-procedure"
    ]
  },
  "basedOn": [
    {
      "reference": "ServiceRequest/planproc-1"
    }
  ],
  "code": {
    "coding": [
      {
        "code": "467771000124109",
        "display": "Assistance with application for food pantry program",
        "system": "http://snomed.info/sct"
      }
    ]
  },
  "text": "Assistance with application for food pantry program"
},
"encounter": {
  "reference": "Encounter/1"
},
"performedDateTime": "2015-06-22T00:00:00+00:00",
"status": "in-progress",
"subject": {
```

```
    "reference": "Patient/1"
  }
}
```

## 38 Procedure Search

GET <https://api.onetouchemr.com/fhir/r4/Procedure?date=2011-10-05>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/Procedure/\\_search](https://api.onetouchemr.com/fhir/r4/Procedure/_search)  
Content-Type: application/x-www-form-urlencoded

date=2011-10-05

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-21T06:19:10+00:00"
  },
  "entry": [
    {
      "fullUrl":
"https://api.onetouchemr.com/fhir/r4/Procedure/planproc-4",
      "resource": {
        "resourceType": "Procedure",
        "id": "planproc-4",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:13+00:00",
          "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-procedure"
          ]
        },
        "code": {
          "coding": [
            {
              "code": "175135009",
              "display": "Introduction of cardiac pacemaker system via
vein",
              "system": "http://snomed.info/sct"
```

```

    }
  ],
  "text": "Introduction of cardiac pacemaker system via vein"
},
"performedDateTime": "2011-10-05T00:00:00+00:00",
"status": "completed",
"subject": {
  "reference": "Patient/1"
}
},
"search": {
  "mode": "match"
}
}
],
"link": [
  {
    "relation": "self",
    "url":
"https://api.onetouchemr.com/fhir/r4/Procedure?date=2011-10-05&\_count=10&\_page=1"
  }
],
"total": 1,
"type": "searchset"
}

```

## 39 Provenance Read

Read Provenance resource with ID allergy-1:

```
GET https://api.onetouchemr.com/fhir/r4/Provenance/allergy-1
```

Example Response:

```

{
  "resourceType": "Provenance",
  "id": "allergy-1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [

```

```

"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-provenance"
  ]
},
"agent": [
  {
    "onBehalfOf": {
      "display": "St. Mary Clinic",
      "reference": "Organization/1"
    },
    "type": {
      "coding": [
        {
          "code": "author",
          "display": "Author",
          "system":
"http://terminology.hl7.org/CodeSystem/provenance-participant-type"
        }
      ],
      "text": "Author"
    },
    "who": {
      "reference": "Practitioner/2"
    }
  }
],
"recorded": "2026-01-20T03:24:12+00:00",
"target": [
  {
    "reference": "AllergyIntolerance/1"
  }
]
]
}

```

## 40 RelatedPerson Read

Read RelatedPerson resource with ID 1:

```
GET https://api.onetouchemr.com/fhir/r4/RelatedPerson/1
```

Example Response:

```
{
```

```
"resourceType": "RelatedPerson",
"id": "1",
"meta": {
  "lastUpdated": "2026-01-20T03:24:12+00:00",
  "profile": [
    "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-relatedpers
on"
  ]
},
"active": true,
"address": [
  {
    "city": "Beaverton",
    "line": [
      "1357, Amber Dr"
    ],
    "postalCode": "97006",
    "state": "OR"
  }
],
"name": [
  {
    "family": "Newman",
    "given": [
      "Matthew"
    ]
  }
],
"patient": {
  "reference": "Patient/1"
},
"relationship": [
  {
    "coding": [
      {
        "code": "SPS",
        "display": "Spouse",
        "system": "http://terminology.hl7.org/CodeSystem/v3-RoleCode"
      }
    ],
    "text": "Spouse"
  }
],
```

```
"telecom": [
  {
    "system": "phone",
    "use": "home",
    "value": "555-723-1544"
  }
]
```

## 41 RelatedPerson Search

GET <https://api.onetouchemr.com/fhir/r4/RelatedPerson?patient=4>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/RelatedPerson/\\_search](https://api.onetouchemr.com/fhir/r4/RelatedPerson/_search)  
Content-Type: application/x-www-form-urlencoded

patient=4

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-21T09:21:09+00:00"
  },
  "entry": [
    {
      "fullUrl": "https://api.onetouchemr.com/fhir/r4/RelatedPerson/7",
      "resource": {
        "resourceType": "RelatedPerson",
        "id": "7",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:13+00:00",
          "profile": [
            "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-relatedperson"
          ]
        },
        "active": true,
        "address": [
```

```
{
  "city": "Beaverton",
  "line": [
    "1357, Death Dr"
  ],
  "postalCode": "97006",
  "state": "OR"
},
"name": [
  {
    "family": "Hollow",
    "given": [
      "Romario"
    ]
  }
],
"patient": {
  "reference": "Patient/4"
},
"relationship": [
  {
    "coding": [
      {
        "code": "SPS",
        "display": "Spouse",
        "system":
"http://terminology.hl7.org/CodeSystem/v3-RoleCode"
      }
    ],
    "text": "Spouse"
  }
],
"telecom": [
  {
    "system": "phone",
    "use": "home",
    "value": "555-723-6666"
  }
],
"search": {
  "mode": "match"
}
```

```

    }
  ],
  "link": [
    {
      "relation": "self",
      "url":
"https://api.onetouchemr.com/fhir/r4/RelatedPerson?patient=4&_count=10&_page=1"
    }
  ],
  "total": 1,
  "type": "searchset"
}

```

## 42 ServiceRequest Read

Read ServiceRequest resource with ID planproc-1:

```
GET https://api.onetouchemr.com/fhir/r4/ServiceRequest/planproc-1
```

Example Response:

```

{
  "resourceType": "ServiceRequest",
  "id": "planproc-1",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:12+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-servicerequest"
    ]
  },
  "text": {
    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Assistance with application for food pantry program</div>",
    "status": "generated"
  },
}

```

```
"authoredOn": "2026-01-20T03:24:12+00:00",
"category": [
  {
    "coding": [
      {
        "code": "sdoh",
        "display": "SDOH",
        "system":
"http://hl7.org/fhir/us/core/CodeSystem/us-core-category"
      }
    ],
    "text": "Social Determinants Of Health"
  }
],
"code": {
  "coding": [
    {
      "code": "467771000124109",
      "system": "http://snomed.info/sct"
    }
  ],
  "text": "Assistance with application for food pantry program"
},
"intent": "plan",
"occurrencePeriod": {
  "start": "2015-06-22"
},
"reasonReference": [
  {
    "reference": "Condition/ed-1"
  }
],
"requester": {
  "reference": "Practitioner/2"
},
"status": "active",
"subject": {
  "reference": "Patient/1"
}
}
```

## 43 ServiceRequest Search

```
GET https://api.onetouchemr.com/fhir/r4/ServiceRequest?patient=3
```

Or using the POST method:

```
POST https://api.onetouchemr.com/fhir/r4/ServiceRequest/_search
```

```
Content-Type: application/x-www-form-urlencoded
```

```
patient=3
```

Example Response:

```
{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-22T08:56:43+00:00"
  },
  "entry": [
    {
      "fullUrl":
"https://api.onetouchemr.com/fhir/r4/ServiceRequest/planref-2",
      "resource": {
        "resourceType": "ServiceRequest",
        "id": "planref-2",
        "meta": {
          "lastUpdated": "2026-01-20T03:24:13+00:00",
          "profile": [
"http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-servicerequ
est"
          ]
        },
        "text": {
          "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Ms Happy Kid
is being referred to Community Health Hospitals Inpatient facility because
of the high fever noticed and suspected Anemia.</div>",
          "status": "generated"
        },
        "authoredOn": "2026-01-20T03:24:13+00:00",
        "code": {
          "coding": [
            {
              "code": "306206005",
              "system": "http://snomed.info/sct"
            }
          ]
        }
      }
    }
  ]
}
```

```

    ],
    "text": "Ms Happy Kid is being referred to Community Health
Hospitals Inpatient facility because of the high fever noticed and
suspected Anemia."
  },
  "intent": "order",
  "requester": {
    "reference": "Practitioner/2"
  },
  "status": "active",
  "subject": {
    "reference": "Patient/3"
  }
},
"search": {
  "mode": "match"
}
}
],
"link": [
  {
    "relation": "self",
    "url":
"https://api.onetouchemr.com/fhir/r4/ServiceRequest?patient=3&\_count=10&\_page=1"
  }
],
"total": 1,
"type": "searchset"
}

```

## 44 Specimen Read

Read Specimen resource with ID labresult-7:

```
GET https://api.onetouchemr.com/fhir/r4/Specimen/labresult-7
```

Example Response:

```

{
  "resourceType": "Specimen",
  "id": "labresult-7",

```

```

"meta": {
  "lastUpdated": "2026-01-20T03:24:14+00:00",
  "profile": [
    "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-specimen"
  ]
},
"subject": {
  "reference": "Patient/5"
},
"type": {
  "coding": [
    {
      "code": "119376003",
      "display": "Tissue specimen (specimen)",
      "system": "http://snomed.info/sct"
    }
  ]
}
}

```

## 45 Specimen Search

GET <https://api.onetouchemr.com/fhir/r4/Specimen?patient=1>

Or using the POST method:

POST [https://api.onetouchemr.com/fhir/r4/Specimen/\\_search](https://api.onetouchemr.com/fhir/r4/Specimen/_search)

Content-Type: application/x-www-form-urlencoded

patient=1

Example Response:

```

{
  "resourceType": "Bundle",
  "meta": {
    "lastUpdated": "2026-02-22T10:09:42+00:00"
  },
  "entry": [
    {
      "fullUrl":
"https://api.onetouchemr.com/fhir/r4/Specimen/labresult-3",

```

```
"resource": {
  "resourceType": "Specimen",
  "id": "labresult-3",
  "meta": {
    "lastUpdated": "2026-01-20T03:24:13+00:00",
    "profile": [
      "http://hl7.org/fhir/us/core/STU6.1/StructureDefinition/us-core-specimen"
    ]
  },
  "subject": {
    "reference": "Patient/1"
  },
  "type": {
    "coding": [
      {
        "code": "122575003",
        "display": "Urine specimen (specimen)",
        "system": "http://snomed.info/sct"
      }
    ]
  },
  "search": {
    "mode": "match"
  }
},
"link": [
  {
    "relation": "self",
    "url": "https://api.onetouchemr.com/fhir/r4/Specimen?patient=1&_count=10&_page=1"
  }
],
"total": 1,
"type": "searchset"
}
```