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DigiDMS
FHIR API Documentation

Product Name and Version: DigiDMS v25.0

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Table of Contents

FHIR Endpoints....3
Production Endpoint....3
Test Server Endpoint....3
Types of Smart-On-FHIR applications....3
Types of Authentications supported....3
Steps for Smart App Launch....5
Client APP Registration....5
Retrieve. well-known/smart-configuration....5
Obtain authorization code....7
Obtain access token....9
Symmetric Authentication Request....10
Access FHIR API....13
Request: Patient....14
Request : AllergyIntolerance....18
Request: CarePlan....26
Request: CareTeam....29
Request: Condition Problems and Health Concern....31
Request: Implantable Device....58
Request: Diagnostic Report....63
Request: Document reference....66
Request: Laboratory Result Observation....72
Request: GOAL....75
Request: Immunization....80
Request: Medication Request....83
Request: Smoking Status....85
Request: Procedure....89
Request: Provenance....97
Request: Vital Signs....102
Request: Encounter....113
Request: ServiceRequest....134
Request: Coverage....136
Request: Medication Dispense....144

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Phone: 908.688.8810, Fax: 877.733.4305
Email: support@digidms.com
Web: https://www.DigiDMS.com
Support: https://www.digidms.com/ehr.aspx

Request: Related Person 161
Profile audience and scope 166
Security and Privacy Considerations 166
App Protection 166
Terms of Use 167

INTRODUCTION

In this documentation, we will list all the steps required to access protected health information based on the documentation of an open API. The
API makes health information broadly available using FHIR®, a set of clinical interoperability resources under the umbrella of the HL7 standards
organization. FHIR is based on common web standards that can be reached through a RESTful protocol in which each FHIR resource has a known URL. This document describes OAuth 2.0 for client applications to authorize, authenticate, and integrate with FHIR-based data systems.

We follow Smart-On-FHIR authentication (OAuth2) and authorization (Ref. http://hl7.org/fhir/smart-app-launch/toc.html)

FHIR Endpoints

Note: Production and Test Server endpoints are subject to change.

Production Endpoint

FHIR [FHIRBaseURL]: https://fhir.digidms.com/fhir/
Authentication Server: https://ids.digidms.com/

Test Server Endpoint

FHIR [FHIRBaseURL]: https://fhir-demo.digidms.com/fhir/
Authentication Server: https://ids-demo.digidms.com

Types of Smart-On-FHIR applications

- Standalone App: SMART on FHIR confidential client with a patient context, refresh token, and OpenID Connect (OIDC) identity token.
- EHR Embedded app: Demonstrate the ability to perform an EHR launch to a SMART on FHIR
- Smart Backend Services App (Multi-patient authorization and API) : These are server-to-server backend applications e.g. Export clinical data for multiple patients in a group. This app is system level app without any UI.

Types of Authentications supported

- Symmetric (“client secret”) authentication (HL7.FHIR.UV.SMART-APP-LAUNCH\Example App Launch for Symmetric Client Auth - FHIRv4.0.1)

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- Asymmetric ("private key JWT") authentication (HL7.FHIR.UV.SMART-APP-LAUNCH\Example App Launch for Asymmetric Client Auth- FHIR v4.0.1)
- Public Clients (HL7.FHIR.UV.SMART-APP-LAUNCH\Example App Launch for Public Client - FHIR v4.0.1)
- Proof Key for Code Exchange (PKCE) is an industry standard that can help mitigate CSRF and other known security threats. Optional use of PKCE during authentication and authorization testing.

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Steps for Smart App Launch

- Client App Registration
- Retrieve. well-known/smart-configuration
- Obtain authorization code
- Obtain access token
- Access FHIR API
- Refresh Token to obtain new access token

Client APP Registration

Before a SMART app can run against an EHR, the app must be registered with that EHR's authorization service.

We have three steps registration process,

Step 1: Client needs to send registration request from the FHIR Registration link below with required details - https://digidms.com/ehr/fhir

Step 2: After receiving registration details, verification of the details is done. Third-party application must sign API Subscription agreement as per registration details

Step 3: Once agreement is signed, client is registered with our authorization server and our team will share client-id and secret securely with client.

Retrieve. well-known/smart-configuration

In order to obtain launch context and request authorization to access FHIR resources, the app discovers the EHR FHIR server's SMART
configuration metadata, including OAuth authorization_endpoint and token_endpoint URLs.
FHIR server makes SMART configuration available from the well-known endpoint. You can get an Authorization end point and token endpoint.

Request

GET 200 https://[FHIRBaseURL]/fhir/.well-known/smart-configuration

Response


```
{
 "capabilities": [
  "launch-ehr",
  "launch-standalone",
  "client-public",
  "client-confidential-symmetric",
  "sso-openid-connect",
  "context-ehr-patient",
  "context-ehr-encounter",
  "context-standalone-patient",
  "context-standalone-encounter",
```

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"permission-offline",
"permission-patient",
"permission-user",
"context-banner",
"context-style",
"permission-v1",
"permission-v2",
"authorize-post",
"client-confidential-asymmetric",
"need_patient_banner",
"smart_style_url"
],
"authorization_endpoint": "https://ids-demo.digidms.com/connect/authorize",
"token_endpoint": "https://ids-demo.digidms.com/connect/token",
"revocation_endpoint": "https://ids-demo.digidms.com/connect/revocation"
}

Error codes

JSON response is returned from the FHIR Server along with the code
200: Ok
401: Unauthorized
400: Bad Request
500: Internal Server Error

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Obtain authorization code

The app supplies the following parameters to the EHR's "authorize" endpoint.

Parameters		
response_type	**required**	Fixed value: **`code`**
client_id	**required**	The client's identifier.
redirect_uri	**required**	Must match one of the client's pre-registered redirect URIs.
launch	**conditional**	When using the EHR Launch flow, this must match the launch value received from the EHR. Omitted when using the Standalone Launch.
scope	**required**	Must describe the access that the app needs, including scopes like **`patient/*.read/patient/*.rs`**, **`openid`** and **`fhirUser`** (if app needs authenticated patient identity) and either: a **`launch`** value indicating that the app wants to receive already-established launch context details from the EHR. a set of launch context requirements in the form **`launch/patient`**, which asks the EHR to establish context on your behalf. Please refer to the scopes supported in the table below
state	**required**	An opaque value is used by the client to maintain the state between the request and callback. The authorization server includes this value when redirecting the user-agent back to the client. The parameter SHALL be used for preventing cross-site request forgery or session fixation attacks. The app SHALL use an unpredictable value for the state parameter with at least 122 bits of entropy (e.g., a properly configured random uuid is suitable).
aud	**required**	URL of the EHR resource server from which the app wishes to retrieve FHIR data. This parameter prevents leaking a genuine bearer token to a counterfeit resource server. (Note that in the case of an EHR launch flow, this `aud` value is the same as the launch's `iss` value.) Note that the `aud` parameter is semantically equivalent to the `resource` parameter defined in RFC8707. SMART's `aud` parameter predates RFC8707 and we have decided not to rename it for reasons of backward compatibility. We might consider renaming SMART's `aud` parameter in the future if implementer feedback indicates that alignment would be valuable. For the current release, servers SHALL support the `aud` parameter and MAY support a `resource` parameter as a synonym for `aud`.

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Scopes Supported

Scope	Grants
patient/*.read	Permission to read any resource for the current patient (see notes on wildcard scopes below). Individual scopes can also be granted i.e. patient/Patient.read, patient/Immunization.read
patient/*.rs	Permission to read and search any resource for the current patient (see notes on wildcard scopes below). Individual scopes can also be granted i.e. patient/Patient.rs, patient/Immunization.rs
user/*.read	Permission to read and write all resources that the current user can access (see notes on wildcard scopes below).
User/*.rs	Permission to read and search all resources that the current user can access (see notes on wildcard scopes below).
openid fhirUser	Permission to retrieve information about the currently logged-in user.
launch	Permission to obtain launch context when app is launched from an EHR.
launch/patient	When launching outside the EHR, ask for a patient to be selected at launch time.
offline_access	Request a refresh_token that can be used to obtain a new access token to replace an expired one, even after the end-user no longer is online after the access token expires.

Here's an example of an authorization request using HTTP GET. You will replace the **[redirect_uri]**, **[client_id]**, **[launch_token]**, **[state]**, **[code_challenge]**, and **[audience]** placeholders with your own values.

Request

https://ids-demo.digidms.com/connect/authorize?response_type=code&client_id=30StandaloneConfidentialClient&redirect_uri=https%3A%2F%2Fwww.health-samurai.io%2Finferno%2Fcustom%2Fsmart%2Fredirect&scope=launch%2Fpatient+openid+fhirUser+offline_access+patient%2FMedication.rs+patient%2FAllergyIntolerance.rs+patient%2FCarePlan.rs+patient%2FCareTeam.rs+patient%2FCondition.rs+patient%2FDevice.rs+patient%2FDiagnosticReport.rs+patient%2FDocumentReference.rs+patient%2FEncounter.rs+patient%2FGoal.rs+patient%2FImmunization.rs+patient%2FLocation.rs+patient%2FMedicationRequest.rs+patient%2FObservation.rs+patient%2FOrganization.rs+patient%2FPatient.rs+patient%2FPractitioner.rs+patient%2FProcedure.rs+patient%2FProvenance.rs+patient%2FPractitionerRole.rs+patient%2FServiceRequest.rs+patient%2FCoverage.rs+patient%2FMedicationDispense.rs+patient%2FSpecimen.rs&state=a493cedc-7e3d-4305-8c52-514f656cfd59&aud=https%3A%2F%2Ffhir-demo.digidms.com%2Ffhir&code_challenge=kP8qVQKc6IKQpOChmPW778pDWTRGYiWpfmBYl0jEUhI&code_challenge_method=S256.

Response

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The EHR's authorization server reviews the request from your application. If approved, the authorization server redirects the browser to the redirect URL supplied in the initial request and appends the following querystring parameter.

- `code`: This parameter contains the authorization code generated by EHR, which will be exchanged for the access token in the next step.
- `state`: The exact value received from the client.

Here is how redirect URL will look like

http://www.health-samurai.io/inferno/custom/smart/redirect?code=722C53BD62E65EE6D422C523749012DDC746AC50D6E1B3B470B3A4D11F201DE1&scope=launch%2Fpatient%20openid%20fhirUser%20offline_access%20patient%2FMedication.rs%20patient%2FAllergyIntolerance.rs%20patient%2FCarePlan.rs%20patient%2FCareTeam.rs%20patient%2FCondition.rs%20patient%2FDevice.rs%20patient%2FDiagnosticReport.rs%20patient%2FDocumentReference.rs%20patient%2FEncounter.rs%20patient%2FGoal.rs%20patient%2FImmunization.rs%20patient%2FLocation.rs%20patient%2FMedicationRequest.rs%20patient%2FObservation.rs%20patient%2FOrganization.rs%20patient%2FPatient.rs%20patient%2FPractitioner.rs%20patient%2FProcedure.rs%20patient%2FProvenance.rs%20patient%2FPractitionerRole.rs%20patient%2FServiceRequest.rs%20patient%2FCoverage.rs%20patient%2FMedicationDispense.rs%20patient%2FSpecimen.rs&state=a493cedc-7e3d-4305-8c52-514f656cfd59&session_state=JoIzT2zDh5_GgwmqZFIRzw4ZOTL4qjy0YOvriSxyiFU.87CA5D349CBBE21602BCF9BAAE434A9E

After receiving the authorization code, your application trades the code for a JSON object containing an access token and contextual information by sending an HTTP POST to the token endpoint using a Content-Type header with value of "application/x-www-form-urlencoded".

Error codes

JSON response is returned from the FHIR Server along with the code200: Ok
401: Unauthorized
400: Bad Request
500: Internal Server Error

Obtain access token

For public apps, authentication not required because a client with no secret cannot prove its identity when it issues a call. (The end-to-end system can still be secure because the client comes from a known, https protected endpoint specified and enforced by the redirect uri.)
For confidential apps, authentication is required. Confidential clients SHOULD use Asymmetric Authentication if available, and MAY use Symmetric Authentication.

There are two different requests to get access token based on authentication type. In case of Symmetric (“client secret”) authentication app issues an HTTP POST to the EHR authorization server’s token endpoint URL using content-type application/x-www-form-urlencoded.
In case of Asymmetric authentication app, generate a client authentication assertion and prepare arguments for POST to token API:

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Request

Parameters		
grant_type	**required**	Fixed value: **authorization_code** for symmetric and **client_credentials** forassymetric
Code	**required**	Code that the app received from the authorization server
redirect_uri	**required**	The same redirect_uri used in the initial authorization request
client_id	**conditional**	Required for public apps. Omit for confidential apps.
client_assertion_type	**conditional**	Required for asymmetric authentication. set to urn:ietf:params:oauth:client-assertion-type:jwt-bearer
client_assertion	**conditional**	Required for asymmetric authentication. set to a JWT signed with your dynamic client's private key
Scope	**conditional**	system/*.read for backend services type of application (bulk operations)

Symmetric Authentication Request

https://ids-demo.digidms.com/connect/token

Payload

grant_type=authorization_code&code=SAMPLE_CODE.bGF1bmNoL3BhdGllbnQgb3BlbmlkIGZoaXJVc2VyIG9mZmxpbmVfYWNjZXNzIHBhdGllbnQvTWVkaWNhdGlvbi5yZWFkIHBhdGllbnQvQWxsZXJneUludG9sZXJhbmNlLnJlYWQgcGF0aWVudC9DYXJlUGxhbi5yZWFkIHBhdGllbnQvQ2FyZVRlYW0ucmVhZCBwYXRpZW50L0NvbmRpdGlvbi5yZWFkIHBhdGllbnQvRGV2aWNlLnJlYWQgcGF0aWVudC9EaWFnbm9zdGljUmVwb3J0LnJlYWQgcGF0aWVudC9Eb2N1bWVudFJlZmVyZW5jZS5yZWFkIHBhdGllbnQvRW5jb3VudGVyLnJlYWQgcGF0aWVudC9Hb2FsLnJlYWQgcGF0aWVudC9JbW11bml6YXRpb24ucmVhZCBwYXRpZW50L0xvY2F0aW9uLnJlYWQgcGF0aWVudC9NZWRpY2F0aW9uUmVxdWVzdC5yZWFkIHBhdGllbnQvT2JzZXJ2YXRpb24ucmVhZCBwYXRpZW50L09yZ2FuaXphdGlvbi5yZWFkIHBhdGllbnQvUGF0aWVudC5yZWFkIHBhdGllbnQvUHJhY3RpdGlvbmVyLnJlYWQgcGF0aWVudC9Qcm9jZWR1cmUucmVhZCBwYXRpZW50L1Byb3ZlbmFuY2UucmVhZCBwYXRpZW50L1ByYWN0aXRpb25lclJvbGUucmVhZCA%3D.ODU%3D&redirect_uri=https%3A%2F%2Finferno.healthit.gov%2Finferno%2Foauth2%2Fstatic%2Fredirect

In case of Asymmetric authentication following is a request

client_assertion=eyJ0eXAiOiJKV1QiLCJhbGciOiJFUzM4NCIsImtpZCI6IjRiNDlhNzM5ZDFlYjExNWIzMjI1ZjRjZjliZWI2ZDFiIn0.eyJpc3MiOiJleUpoYkdjaU9pSklVekkxTmlJc0luUjVjQ0k2SWtwWFZDSXNJbXRwWkNJNkluSmxaMmx6ZEhKaGRHbHZiaTEwYjJ0bGJpSjkuZXlKcWQydHpYM1Z5YkNJNkltaDBkSEE2THk4eE1DNHhOUzR5TlRJdU56TXZhVzVtWlhKdWJ5OHVkMlZzYkMxcmJtOTNiaTlxZDJ0ekxtcHpiMjRpTENKaFkyTmxjM05VYjJ0bGJuTkZlSEJwY21WSmJpSTZNVFVsSW1saGRDSTZNVFU1TnpReE16RTVOWDAucTR2NE1zYzc0a041MDZLVFowcV9taW55YXBKdzBnd2xUNk1fdWlMNzNTNCIsInN1Yiil6ImV5SmhiR2NpT2lKSVV6STFOaUlzSW5SNWNDSTZJa3BYVkNJc0ltdHBaQ0k2SW5KbFoybHpkSEpoZEdsdmJpMTBiMnRsYmlKOS5leUpxZDJ0elgzVnliQ0k2SW1oMGRIQTZMeTh4TUM0eE5TNHlOVEl1TnpNdmFXN

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W1aWEp1Ynk4dWQyVnNiQzFyYm05M2JpOXFkMnR6TG1wemIyNGlMQ0poWTJObGMzTlViMnRsYm5ORmVIQnBj
bVZKYmlJNk1UVXNJbWxoZENJNk1UVTVOelF4TXpFNU5YMC5xNHY0TXNjNzRrTjUwNktUWjBxX21pbnlhcEp3MGd3
bFQ2TV91aUw3M1M0IiwiYXVkIjoiaHR0cHM6Ly9pbmZlcm5vLmhlYWx0aGl0Lmdvdi9yZWZlcmVuY2Utc2VydmVyL
29hdXRoL2J1bGstdG9rZW4iLCJleHAiOjE2NTMxMDY4ODgsImp0aSI6ImZmZjA5YjIxMjhiOWRmNmU3MGU5MWQ
2ZDUwMGQxMmFmYmU2YWE4N2FhMjJlZjVhMjc5YjZhNTI0YzA0NmM1ZWEifQ.tlx7jIu9wn7QdHHdWyUMf9otY0
r7eX62LuVF3kZOsjjw-CP-glqdbDtOKiu- BQ9doduW4zyk3fs6k48XpAEQLsSXajfEJeDy9uj-
WdSmpAHEC0xYHQSzajekdwlDSBRA&client_assertion_type=urn%3Aietf%3Aparams%3Aoauth%3Aclient-
assertion-type%3Ajwt- bearer&grant_type=client_credentials&scope=system%2F%2A.read

Response

The EHR authorization server SHALL return a JSON object that includes an access token or a message indicating that the authorization requesthas been denied. The JSON structure includes the following parameters:

Parameters

access_token	**required**	The access token issued by the authorization server
token_type	**required**	Fixed value: Bearer
expires_in	**recommended**	Lifetime in seconds of the access token, after which the token SHALL NOT be accepted by the resource server
scope	**required**	Scope of access authorized. Note that this can be different from the scopes requested by the app.
id_token	**optional**	Authenticated user identity and user details, if requested
refresh_token	**optional**	Token that can be used to obtain a new access token, using the same or a subset of the original authorization grants

Sample response

{
"id_token":
"eyJhbGciOiJSUzI1NiIsImtpZCI6IkNBNUJGMkI1Qjk2NDk1MEQyRUU1NzdGODZERDhCOTY0IiwidHlwIjoiSldUIn0.ey
JuYmYiOjE3NjMyMTgxNjUsImV4cCI6MTc2MzIxODQ2NSwiaXNzIjoiaHR0cHM6Ly9pZHMtZGVtby5kaWdpZG1zLm
NvbSIsImF1ZCI6IjMwU3RhbmRhbG9uZUNvbmZpZGVudGlhbENsaWVudCIsImlhdCI6MTc2MzIxODE2NSwiYXRfaGF
zaCI6IlJyb0ZuUlNSM3lzbkh3N3poc3FBTnciLCJzdWIiOiJyYWNoZWxBIiwiYXV0aF90aW1lIjoxNzYzMjE4MDM5LCJpZ
HAiOiJsb2NhbCIsIm5hbWUiOiJyYWNoZWxBIiwiY2xpbmljSWQiOiIzNzQiLCJyb2xlIjoicGF0aWVudCIsInByb3ZpZGVy
SWQiOiIwIiwicGF0aWVudElkIjoiMTg2NDgiLCJmaGlyVXNlciI6Imh0dHBzOi8vZmhpci1kZW1vLmRpZ2lkbXMuY29tL
2ZoaXIvUGF0aWVudC82UjJVRjhGUkFZU3lJVDEwaDBtd1ZlUyIsImFtciI6WyJwd2QiXX0.GkakqOCGV_1Mzzcgpw06a
is5GeD9qy288umVbi79Ap3yq_MCNkXm9siYKUt1Q4yS2AkMjB7GJgKv-
rfrxHqEbr6ICGuShvvtbHScH_Pc3LgFsUqQGuWB0vYpPZ-fjqWjwX7yPCzb-
gwZkCGCHhxDPtmErRp0JxuLrlxfokAASJYh3OH2ebG9r0mtBd3YJaccpWXNkMe6wCXjiczQXqfhSFKoBPQnOTH5sQA
qfYGWlSHRsikp6VOPDCv7IBsmk9bNeplGiMmNMdpLGAQeWH1XhJxLOONh0GCSxRnezPwx0opuBCGqlKdkwS3yFI
5OHMsl5egtN8uCASn9h327NQw4ug",
"access_token": "5FB5E311AA04F4D468E5C2D769557F0359F8F54984F313681B9F6E8F2102A3EC",
"expires_in": 3600,
"token_type": "Bearer",
"refresh_token": "E90EBFCE47EEB8EEDEACD584476CE85143ECF1D948DB2B26122C9688EC8B8061",
"scope": "launch/patient openid fhirUser patient/Medication.rs patient/AllergyIntolerance.rs
patient/CarePlan.rs patient/CareTeam.rs patient/Condition.rs patient/Device.rs patient/DiagnosticReport.rs

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patient/DocumentReference.rs patient/Encounter.rs patient/Goal.rs patient/Immunization.rs patient/Location.rs patient/MedicationRequest.rs patient/Observation.rs patient/Organization.rs patient/Patient.rs patient/Practitioner.rs patient/Procedure.rs patient/Provenance.rs patient/PractitionerRole.rs patient/ServiceRequest.rs patient/Coverage.rs patient/MedicationDispense.rs patient/Specimen.rs offline_access",
"patient": "6R2UF8FRAYSyIT10h0mwVeS"
}

Error codes

JSON response is returned from the FHIR Server along with the code 200: Ok
401: Unauthorized
400: Bad Request
500: Internal Server Error

At this point, the authorization flow is complete.

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Access FHIR API

With a valid access token, the app can access protected EHR data by issuing a FHIR API call to the FHIR endpoint on the EHR's resource server. Only HTTP GET request types are supported while accessing FHIR Resource API. Following resources are supported

FHIR Resource

Allergies and Intolerances - US Core AllergyIntolerance Profile

Assessment and Plan of Treatment US Core Observation Screening Assessment Profile

Care Team Members US Core CareTeam Profile

Clinical Notes - US Core DocumentReference Profile & US Core DiagnosticReport Profile for Laboratory Results Reporting

Goals - US Core Goal Profile

Health Concerns - US Core Condition Problems and Health Concerns Profile

Immunizations - US Core Immunization Profile

Laboratory - US Core Laboratory Result Observation Profile & US Core DiagnosticReport Profile for Laboratory Results Reporting

Medications - US Core Medication Profile, US Core MedicationRequest Profile , US Core MedicationDispense Profile

Patient Demographics - US Core Patient Profile

Problems - US Core Condition Problems and Health Concerns Profile

Procedures - US Core Procedure Profile

Provenance - US Core Procedure Profile

Smoking Status - US Core Smoking Status Observation Profile

Unique Device Identifier(s) for Patient's Implantable Device(s) - US Core Implantable Device Profile

Vital Signs–US Core Vital Signs Profile

Questionnaire - US Core QuestionnaireResponse Profile

Related Person - US Core RelatedPerson Profile

Service Request - US Core ServiceRequest Profile

Specimen - US Core Specimen Profile

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Request: Patient

Search Parameters

_id: GET [FHIRBaseURL]/Patient/_search?Patient=[id]
Identifier : GET [FHIRBaseURL]/Patient?identifier={system|}[code]
Name: GET [FHIRBaseURL]/Patient?name=[string]
birthdate + name :GET [FHIRBaseURL]/Patient?birthdate=[date]&name=[string]
gender + name : GET [FHIRBaseURL]/Patient?gender={system|}[code]&name=[string]

Response

US Core Patient Profile as specified in the US Core v6.1.0 Implementation Guide

Code: 200 (Success)


```
{
  "resourceType": "Bundle",
  "type": "collection",
  "total": 1,
  "entry": [
    {
      "fullUrl": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
      "resource": {
        "resourceType": "Patient",
        "id": "6R2UF8FRAYSyIT10h0mwVeS",
        "text": {
          "status": "generated",
          "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\"><h2>Patient Name: Rachel
Anderrson</h2><h2>Identifier: 6R2UF8FRAYSyIT10h0mwVeS</h2><div>MRN: 18648</div><div>Gender:
Female</div><div>DOB: 2012-02-06</div><div>Language: </div><h2>Address: 44 john St ,
HOBOKEN, NJ, US</h2><h2>Address: Old stree addressline 1 , Katy, TX, US</h2><div>Phone :
7453219855</div><div>Phone : 7854213668</div><div>Fax : 4212345879</div><div>Email :
rachelanderson@putsbox.com</div></div>"
        },
        "extension": [
          {
            "extension": [
              {
                "url": "ombCategory",
                "valueCoding": {
                  "system": "urn:oid:2.16.840.1.113883.6.238",
                  "code": "2076-8",
                  "display": "Native Hawaiian or Other Pacific Islander"
                }
              },
              {
                "url": "text",
                "valueString": "Native Hawaiian or Other Pacific Islander"
              }
            ],
            "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-race"
          },
          {
```

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```
            "extension": [
              {
                "url": "ombCategory",
                "valueCoding": {
                  "system": "urn:oid:2.16.840.1.113883.6.238",
                  "code": "2135-2",
                  "display": "Hispanic or Latino"
                }
              },
              {
                "url": "text",
                "valueString": "Hispanic or Latino"
              }
            ],
            "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-ethnicity"
          },
          {
            "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-sex",
            "valueCode": "248152002"
          },
          {
            "extension": [
              {
                "url": "tribalAffiliation",
                "valueCodeableConcept": {
                  "coding": [
                    {
                      "system": "http://terminology.hl7.org/CodeSystem/v3-TribalEntityUS",
                      "code": "338"
                    }
                  ],
                  "text": "Native Village of Afognak"
                }
              },
              {
                "url": "isEnrolled",
                "valueBoolean": true
              }
            ],
            "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-tribal-
affiliation"
          }
        ],
        "identifier": [
          {
            "system": "https://digidms.com",
            "value": "18648"
          }
        ],
        "name": [
          {
            "use": "official",
```

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```
      "family": "Anderrson",
      "given": [
        "Rachel"
      ],
      "prefix": [
        "Ms."
      ],
      "suffix": [
        "Jr."
      ]
    },
    {
      "use": "official",
      "family": "Swalonski",
      "given": [
        "Julia"
      ],
      "prefix": [
        "Ms."
      ],
      "suffix": [
        "Ms"
      ],
      "period": {
        "end": "2018-11-15"
      }
    }
  ],
  "telecom": [
    {
      "system": "phone",
      "value": "7453219855",
      "use": "mobile"
    },
    {
      "system": "phone",
      "value": "7854213668",
      "use": "home"
    },
    {
      "system": "fax",
      "value": "4212345879"
    },
    {
      "system": "email",
      "value": "rachelanderson@putsbox.com"
    }
  ],
  "gender": "female",
  "birthDate": "2012-02-06",
  "deceasedBoolean": false,
  "address": [
```

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```
        {
          "line": [
            "44 john St"
          ],
          "city": "HOBOKEN",
          "state": "NJ",
          "postalCode": "07030",
          "country": "US",
          "period": {
            "start": "2018-12-25"
          }
        },
        {
          "line": [
            "Old stree addressline 1"
          ],
          "city": "Katy",
          "state": "TX",
          "postalCode": "77449",
          "country": "US",
          "period": {
            "start": "2015-11-02",
            "end": "2018-12-25"
          }
        }
      ],
      "communication": [
        {
          "language": {
            "coding": [
              {
                "system": "urn:ietf:bcp:47",
                "code": "en"
              }
            ],
            "text": "English"
          }
        }
      ]
    }
  }
]
}
```

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Request : AllergyIntolerance

Search Parameters
GET [FHIRBaseURL]/AllergyIntolerance?Patient=[id]

Optional Search Parameters:
GET [base]/AllergyIntolerance?patient=[id]&clinical-status={system|}[code]

Response

Each resource returned from the first search is expected to conform to the US Core AllergyIntolerance Profile.

Code: 200 (Success)


```
{
 "resourceType": "Bundle",
 "id": "0e045290-a18f-473b-9a52-ce2bc5bf9d61",
 "type": "searchset",
 "total": 3,
 "link": [
  {
   "relation": "self",
   "url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=1229fd9d-5440-477c-95c5-b0456bd37a2c&_offset=0"
  },
  {
   "relation": "first",
   "url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=1229fd9d-5440-477c-95c5-b0456bd37a2c&_offset=0"
  },
  {
   "relation": "last",
   "url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=1229fd9d-5440-477c-95c5-b0456bd37a2c&_offset=0"
  }
```

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],
"entry": [
{
"fullUrl": "https://fhir-demo.digidms.com/fhir/AllergyIntolerance/9Q5GNGy710e8R3tdHJX2wk7Xz1vS8FoNScB/_history/2813",
"resource": {
"resourceType": "AllergyIntolerance",
"id": "9Q5GNGy710e8R3tdHJX2wk7Xz1vS8FoNScB",
"meta": {
"versionId": "2813",
"lastUpdated": "2025-11-15T10:37:44.019-05:00"
},
"text": {
"status": "generated",
"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Details: G-1</h2>\r\n <h2>clinical Status: Active</h2>\r\n "
},
"clinicalStatus": {
"coding": [
{
"system": "http://terminology.hl7.org/CodeSystem/allergyintolerance-clinical",
"code": "active"
}
],
"text": "Active"
},
"verificationStatus": {
"coding": [

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```
    {
      "system": "http://terminology.hl7.org/CodeSystem/allergyintolerance-verification",
      "code": "confirmed"
    }
  ],
  "text": "confirmed"
},
"code": {
  "coding": [
    {
      "system": "http://www.nlm.nih.gov/research/umls/rxnorm",
      "code": "214130"
    }
  ],
  "text": "G-1"
},
"patient": {
  "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
  "display": "Rachel Anderrson"
},
"reaction": [
  {
    "manifestation": [
      {
        "coding": [
          {
            "system": "http://snomed.info/sct",
```

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"code": "95631006"
}
],
"text": "Drowsiness of the newborn"
}
]
}
]
}
},
{
"fullUrl": "https://fhir-demo.digidms.com/fhir/AllergyIntolerance/9Q5GNGy710e8R3tdHJX2wk7Xz1vS8FoNScC/_history/2809",
"resource": {
"resourceType": "AllergyIntolerance",
"id": "9Q5GNGy710e8R3tdHJX2wk7Xz1vS8FoNScC",
"meta": {
"versionId": "2809",
"lastUpdated": "2025-11-15T10:37:44.556-05:00"
},
"text": {
"status": "generated",
"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Details: COCONUT</h2>\r\n <h2>clinical Status: Inactive</h2>\r\n "
},
"clinicalStatus": {
"coding": [
{

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```
    "system": "http://terminology.hl7.org/CodeSystem/allergyintolerance-clinical",
    "code": "inactive"
   }
  ],
  "text": "Inactive"
 },
 "verificationStatus": {
  "coding": [
   {
    "system": "http://terminology.hl7.org/CodeSystem/allergyintolerance-verification",
    "code": "confirmed"
   }
  ],
  "text": "confirmed"
 },
 "code": {
  "coding": [
   {
    "system": "http://snomed.info/sct",
    "code": "260171006"
   }
  ],
  "text": "COCONUT"
 },
 "patient": {
  "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
  "display": "Rachel Anderrson"
```

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```
      }
     }
    },
    {
     "fullUrl": "https://fhir-demo.digidms.com/fhir/AllergyIntolerance/9Q5GNGy710e8R3tdHJX2wk7Xz1vS8FoNSob/_history/2789",
     "resource": {
      "resourceType": "AllergyIntolerance",
      "id": "9Q5GNGy710e8R3tdHJX2wk7Xz1vS8FoNSob",
      "meta": {
       "versionId": "2789",
       "lastUpdated": "2025-11-15T10:37:44.286-05:00"
      },
      "text": {
       "status": "generated",
       "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>Details: IBUPROFEN</h2>\r\n <h2>clinical Status: Active</h2>\r\n</div>"
      },
      "clinicalStatus": {
       "coding": [
        {
         "system": "http://terminology.hl7.org/CodeSystem/allergyintolerance-clinical",
         "code": "active"
        }
       ],
       "text": "Active"
      },
      "verificationStatus": {
```

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```
 "coding": [
  {
   "system": "http://terminology.hl7.org/CodeSystem/allergyintolerance-verification",
   "code": "confirmed"
  }
 ],
 "text": "confirmed"
},
"code": {
 "coding": [
  {
   "system": "http://www.nlm.nih.gov/research/umls/rxnorm",
   "code": "5640"
  }
 ],
 "text": "IBUPROFEN"
},
"patient": {
 "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
 "display": "Rachel Anderrson"
},
"reaction": [
 {
  "manifestation": [
   {
    "coding": [
     {
```

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```
            "system": "http://snomed.info/sct",
            "code": "134006"
          }
        ],
        "text": "Decreased hair growth"
      }
    ]
   }
  ]
 }
}
```

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Request: CarePlan

GET [FHIRBaseURL]/CarePlan?category=assess-plan&patient=[id]

Optional Search Parameters:
GET [base]/CarePlan?patient=[reference]&category=http://hl7.org/fhir/us/core/CodeSystem/careplan-category|assess-plan&date={gt|lt|ge|le}[date]{&date={gt|lt|ge|le}[date]&...}
e.g.
https://fhir-demo.digidms.com/fhir/CarePlan?category=assess-plan&patient=6R2UF8FRAYSyIT10h0mwVeS

Response
Each resource returned from the first search is expected to conform to the US Core CarePlan Profile.

Code: 200 (Success)
{

"resourceType": "Bundle",

"id": "e698d238-05b0-408f-98c8-a8c2a0f1d000",

"type": "searchset",

"total": 1,

"link": [

{

"relation": "self",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=28bddbb6-cc53-4aab-ada5-5de3469345ba&_offset=0"

},

{

"relation": "first",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=28bddbb6-cc53-4aab-ada5-5de3469345ba&_offset=0"

},

{

"relation": "last",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=28bddbb6-cc53-4aab-ada5-5de3469345ba&_offset=0"

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```
  }
 ],
 "entry": [
  {
   "fullUrl": "https://fhir-demo.digidms.com/fhir/CarePlan/6R2UF7tpeQTa0ml8LeJDz54/_history/2809",
   "resource": {
    "resourceType": "CarePlan",
    "id": "6R2UF7tpeQTa0ml8LeJDz54",
    "meta": {
     "versionId": "2809",
     "lastUpdated": "2025-11-15T10:37:44.849-05:00"
    },
    "text": {
     "status": "generated",
     "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <div>Text: Plan\r\n 1. Hyperkalemia secondary to 3 and on ACE and K+ supplement.\r\n2. Other chronic diagnoses as noted above, currently stable.</div>\r\n</div>"
    },
    "status": "active",
    "intent": "plan",
    "category": [
     {
      "coding": [
       {
        "system": "http://hl7.org/fhir/us/core/CodeSystem/careplan-category",
        "code": "assess-plan"
       }
      ]
```

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```
        }
       ],
       "description": "Plan\n 1. Hyperkalemia secondary to 3 and on ACE and K+ supplement.\n2. Other chronic diagnoses as noted above, currently stable.",
       "subject": {
        "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
        "display": "Rachel Anderrson"
       },
       "encounter": {
        "reference": "Encounter/QZeGsSqbghZ6NhrSs8Zxfq5d",
        "display": "11/15/2022 12:00:00 AM"
       }
      }
    }
  ]
}
```

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Request: CareTeam

GET [FHIRBaseURL]/CareTeam?patient=[id]&status=active

e.g.
https://fhir-demo.digidms.com/fhir/CareTeam?patient=6R2UF8FRAYSyIT10h0mwVeS&status=proposed

Response

Each resource returned from the first search is expected to conform to the US Core CareTeam Profile
Code: 200 (Success)


```
{
 "resourceType": "Bundle",
 "id": "fbe2dda1-3780-4363-ad58-af905944b403",
 "type": "searchset",
 "total": 0,
 "link": [
  {
   "relation": "self",
   "url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=58b509c9-79e5-4d29-b85d-22bfab425830&_offset=0"
  },
  {
   "relation": "first",
   "url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=58b509c9-79e5-4d29-b85d-22bfab425830&_offset=0"
  },
  {
   "relation": "last",
   "url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=58b509c9-79e5-4d29-b85d-22bfab425830&_offset=0"
  }
 ]
```

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}

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Request: Condition Problems and Health Concern

Search Parameters

```
GET [base]/Condition?patient={Type/}[id]
GET [base]/Condition?patient={Type/}[id]&category={system|}[code]
```

GET [base]/Condition?patient=[id]&category=http://terminology.hl7.org/CodeSystem/condition-category|problem-list-item
GET [base]/Condition?patient=[id]&category=http://hl7.org/fhir/us/core/CodeSystem/condition-category|health-concern
GET [base]/Condition?patient=[id]&category=http://terminology.hl7.org/CodeSystem/condition-category|encounter-diagnosis
e.g
[FHIRBaseURL]/Condition?patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b&category=http://hl7.org/fhir/us/core/CodeSystem/condition-category|health-concern

Response
Each resource returned from the first search is expected to conform to the US Core Condition Profile
Code: 200 (Success)

{

"resourceType": "Bundle",

"id": "52984843-e7af-4c58-8310-bbbcba19aabd",

"type": "searchset",

"total": 15,

"link": [

{

"relation": "self",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=a4e767dd-f3be-4170-88d4-f79da798881d&_offset=0"

},

{

"relation": "first",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=a4e767dd-f3be-4170-88d4-f79da798881d&_offset=0"

},

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{
"relation": "last",
"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=a4e767dd-f3be-4170-88d4-f79da798881d&_offset=0"
}
],
"entry": [
{
"fullUrl": "https://fhir-demo.digidms.com/fhir/Condition/1Ydpt0SYhRsuDBcTv8Tbzc/_history/1328",
"resource": {
"resourceType": "Condition",
"id": "1Ydpt0SYhRsuDBcTv8Tbzc",
"meta": {
"versionId": "1328",
"lastUpdated": "2025-11-15T10:37:47.557-05:00",
"profile": [
"http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-problems-health-concerns|6.1.0"
]
},
"text": {
"status": "generated",
"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Clinical Status: active</h2>\r\n <h2>Category: health-concern</h2>\r\n <h2>Code: Acute dilatation of stomach</h2>\r\n <h2>Verification Status: confirmed</h2>\r\n Subject: Rachel Anderrson \r\n "
},
"clinicalStatus": {
"coding": [
{

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```
    "system": "http://terminology.hl7.org/CodeSystem/condition-clinical",
    "code": "active"
   }
  ]
},
"verificationStatus": {
 "coding": [
  {
   "system": "http://terminology.hl7.org/CodeSystem/condition-ver-status",
   "code": "confirmed"
  }
 ]
},
"category": [
 {
  "coding": [
   {
    "system": "http://hl7.org/fhir/us/core/CodeSystem/condition-category",
    "code": "health-concern"
   }
  ]
 },
 {
  "coding": [
   {
    "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-category",
    "code": "sdoh"
```

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```
        }
       ]
      }
    ],
    "code": {
     "coding": [
      {
       "system": "http://snomed.info/sct",
       "code": "387666006"
      }
     ],
     "text": "Acute dilatation of stomach"
    },
    "subject": {
     "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
     "display": "Rachel Anderrson"
    },
    "onsetDateTime": "2022-11-15T07:43:21.0Z",
    "recordedDate": "2022-11-15T07:43:21.0Z"
  }
},
{
  "fullUrl": "https://fhir-demo.digidms.com/fhir/Condition/6R2UF7tvHP8i6RytXv0Grwq/_history/1419",
  "resource": {
    "resourceType": "Condition",
    "id": "6R2UF7tvHP8i6RytXv0Grwq",
    "meta": {
```

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"versionId": "1419",

"lastUpdated": "2025-11-15T10:37:47.818-05:00"

},

"text": {

"status": "generated",

"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Clinical Status: resolved</h2>\r\n <h2>Category: encounter-diagnosis</h2>\r\n <h2>Code: Td Adsorbed Prsrv Fr 7 Yr/> Im</h2>\r\n <h2>Verification Status: confirmed</h2>\r\n Subject: Rachel Anderrson \r\n "

},

"clinicalStatus": {

"coding": [

{

"system": "http://terminology.hl7.org/CodeSystem/condition-clinical",

"code": "resolved"

}

]

},

"verificationStatus": {

"coding": [

{

"system": "http://terminology.hl7.org/CodeSystem/condition-ver-status",

"code": "confirmed"

}

]

},

"category": [

{

"coding": [

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```
    {
      "system": "http://terminology.hl7.org/CodeSystem/condition-category",
      "code": "encounter-diagnosis"
    }
   ]
  },
  {
   "coding": [
    {
      "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-category",
      "code": "sdoh"
    }
   ]
  }
],
"code": {
  "coding": [
   {
     "system": "http://hl7.org/fhir/sid/icd-10-cm",
     "code": "90714"
   }
  ],
  "text": "Td Adsorbed Prsrv Fr 7 Yr/> Im"
},
"subject": {
  "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
  "display": "Rachel Anderrson"
```

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```
    },
    "encounter": {
      "reference": "Encounter/QZeGsSqbghZ6NhrSs8Zxfq5d",
      "display": "11/15/2022 12:00:00 AM"
    },
    "onsetDateTime": "2022-11-15T07:58:44.0Z",
    "abatementDateTime": "2022-12-27T00:00:00.0Z",
    "recordedDate": "2022-11-15T07:58:44.0Z"
   }
  },
  {
   "fullUrl": "https://fhir-demo.digidms.com/fhir/Condition/6R2UF7tvHP8i6RytXv0Gs9A/_history/1419",
   "resource": {
    "resourceType": "Condition",
    "id": "6R2UF7tvHP8i6RytXv0Gs9A",
    "meta": {
     "versionId": "1419",
     "lastUpdated": "2025-11-15T10:37:48.08-05:00"
    },
    "text": {
     "status": "generated",
     "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>Clinical Status:  resolved</h2>\r\n
<h2>Category: encounter-diagnosis</h2>\r\n  <h2>Code: NEW PT/PROBLEM FOCUSED HISTORY
EXAM/ST</h2>\r\n  <h2>Verification Status: confirmed</h2>\r\n  <div>Subject: Rachel
Anderrson</div>\r\n</div>"
    },
    "clinicalStatus": {
     "coding": [
```

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```
    {
      "system": "http://terminology.hl7.org/CodeSystem/condition-clinical",
      "code": "resolved"
    }
  ]
},
"verificationStatus": {
  "coding": [
    {
      "system": "http://terminology.hl7.org/CodeSystem/condition-ver-status",
      "code": "confirmed"
    }
  ]
},
"category": [
  {
    "coding": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/condition-category",
        "code": "encounter-diagnosis"
      }
    ]
  },
  {
    "coding": [
      {
        "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-category",
```

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```
          "code": "sdoh"
        }
       ]
     }
    ],
    "code": {
     "coding": [
      {
       "system": "http://hl7.org/fhir/sid/icd-10-cm",
       "code": "99201"
      }
     ],
     "text": "NEW PT/PROBLEM FOCUSED HISTORY EXAM/ST"
    },
    "subject": {
     "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
     "display": "Rachel Anderrson"
    },
    "encounter": {
     "reference": "Encounter/QZeGsSqbghZ6NhrSs8Zxfq5d",
     "display": "11/15/2022 12:00:00 AM"
    },
    "onsetDateTime": "2022-11-15T07:58:44.0Z",
    "abatementDateTime": "2022-12-27T00:00:00.0Z",
    "recordedDate": "2022-11-15T07:58:44.0Z"
   }
  },
```

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{
"fullUrl": "https://fhir-demo.digidms.com/fhir/Condition/6R2UF7tvHP8i6RytXv0HQB9/_history/2650",
"resource": {
"resourceType": "Condition",
"id": "6R2UF7tvHP8i6RytXv0HQB9",
"meta": {
"versionId": "2650",
"lastUpdated": "2025-11-15T10:37:48.343-05:00"
},
"text": {
"status": "generated",
"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Clinical Status: resolved</h2>\r\n <h2>Category: problem-list-item</h2>\r\n <h2>Code: Pain in left elbow</h2>\r\n <h2>Verification Status: confirmed</h2>\r\n Subject: Rachel Anderrson \r\n "
},
"clinicalStatus": {
"coding": [
{
"system": "http://terminology.hl7.org/CodeSystem/condition-clinical",
"code": "resolved"
}
]
},
"verificationStatus": {
"coding": [
{
"system": "http://terminology.hl7.org/CodeSystem/condition-ver-status",
"code": "confirmed"

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```
    }
   ]
  },
  "category": [
   {
    "coding": [
     {
      "system": "http://terminology.hl7.org/CodeSystem/condition-category",
      "code": "problem-list-item"
     }
    ]
   },
   {
    "coding": [
     {
      "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-category",
      "code": "sdoh"
     }
    ]
   }
  ],
  "code": {
   "coding": [
    {
     "system": "http://hl7.org/fhir/sid/icd-10-cm",
     "code": "M25.522"
    }
```

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```
      ],
      "text": "Pain in left elbow"
     },
     "subject": {
      "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
      "display": "Rachel Anderrson"
     },
     "onsetDateTime": "2022-11-15T07:55:08.0Z",
     "abatementDateTime": "2020-11-23T00:00:00.0Z",
     "recordedDate": "2022-11-15T07:55:08.0Z"
    }
   },
   {
    "fullUrl": "https://fhir-demo.digidms.com/fhir/Condition/6R2UF7tvHP8i6RytXv0HQBA/_history/2650",
    "resource": {
     "resourceType": "Condition",
     "id": "6R2UF7tvHP8i6RytXv0HQBA",
     "meta": {
      "versionId": "2650",
      "lastUpdated": "2025-11-15T10:37:48.605-05:00"
     },
     "text": {
      "status": "generated",
      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>Clinical Status: active</h2>\r\n
<h2>Category: problem-list-item</h2>\r\n  <h2>Code: Disease of stomach and duodenum,
unspecified</h2>\r\n  <h2>Verification Status: confirmed</h2>\r\n  <div>Subject: Rachel
Anderrson</div>\r\n</div>"
     },
```

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```
"clinicalStatus": {
 "coding": [
  {
   "system": "http://terminology.hl7.org/CodeSystem/condition-clinical",
   "code": "active"
  }
 ]
},
"verificationStatus": {
 "coding": [
  {
   "system": "http://terminology.hl7.org/CodeSystem/condition-ver-status",
   "code": "confirmed"
  }
 ]
},
"category": [
 {
  "coding": [
   {
    "system": "http://terminology.hl7.org/CodeSystem/condition-category",
    "code": "problem-list-item"
   }
  ]
 },
 {
  "coding": [
```

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```
        {
          "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-category",
          "code": "sdoh"
        }
       ]
     }
    ],
    "code": {
     "coding": [
      {
       "system": "http://hl7.org/fhir/sid/icd-10-cm",
       "code": "K31.9"
      }
     ],
     "text": "Disease of stomach and duodenum, unspecified"
    },
    "subject": {
     "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
     "display": "Rachel Anderrson"
    },
    "onsetDateTime": "2022-11-15T07:57:52.0Z",
    "recordedDate": "2022-11-15T07:57:52.0Z"
   }
  },
  {
   "fullUrl": "https://fhir-demo.digidms.com/fhir/Condition/6R2UF7tvHP8i6RytXv0HQBB/_history/2650",
   "resource": {
```

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"resourceType": "Condition",

"id": "6R2UF7tvHP8i6RytXv0HQBB",

"meta": {

"versionId": "2650",

"lastUpdated": "2025-11-15T10:37:48.867-05:00"

},

"text": {

"status": "generated",

"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Clinical Status: resolved</h2>\r\n <h2>Category: problem-list-item</h2>\r\n <h2>Code: Acute dilatation of stomach</h2>\r\n <h2>Verification Status: confirmed</h2>\r\n Subject: Rachel Anderrson \r\n "

},

"clinicalStatus": {

"coding": [

{

"system": "http://terminology.hl7.org/CodeSystem/condition-clinical",

"code": "resolved"

}

]

},

"verificationStatus": {

"coding": [

{

"system": "http://terminology.hl7.org/CodeSystem/condition-ver-status",

"code": "confirmed"

}

]

},

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```
"category": [
 {
  "coding": [
   {
    "system": "http://terminology.hl7.org/CodeSystem/condition-category",
    "code": "problem-list-item"
   }
  ]
 },
 {
  "coding": [
   {
    "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-category",
    "code": "sdoh"
   }
  ]
 }
],
"code": {
 "coding": [
  {
   "system": "http://hl7.org/fhir/sid/icd-10-cm",
   "code": "K31.0"
  }
 ],
 "text": "Acute dilatation of stomach"
},
```

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"subject": {
"reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
"display": "Rachel Anderrson"
},
"onsetDateTime": "2022-11-15T07:58:44.0Z",
"abatementDateTime": "2022-12-27T00:00:00.0Z",
"recordedDate": "2022-11-15T07:58:44.0Z"
}
},
{
"fullUrl": "https://fhir-demo.digidms.com/fhir/Condition/6R2UF7tvHP8i6RytXv0HQFJ/_history/2650",
"resource": {
"resourceType": "Condition",
"id": "6R2UF7tvHP8i6RytXv0HQFJ",
"meta": {
"versionId": "2650",
"lastUpdated": "2025-11-15T10:37:49.143-05:00"
},
"text": {
"status": "generated",
"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Clinical Status: resolved</h2>\r\n <h2>Category: problem-list-item</h2>\r\n <h2>Code: Pain in joints of right hand</h2>\r\n <h2>Verification Status: confirmed</h2>\r\n Subject: Rachel Anderrson \r\n "
},
"clinicalStatus": {
"coding": [
{
"system": "http://terminology.hl7.org/CodeSystem/condition-clinical",

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```
      "code": "resolved"
    }
   ]
},
"verificationStatus": {
  "coding": [
    {
      "system": "http://terminology.hl7.org/CodeSystem/condition-ver-status",
      "code": "confirmed"
    }
  ]
},
"category": [
  {
    "coding": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/condition-category",
        "code": "problem-list-item"
      }
    ]
  },
  {
    "coding": [
      {
        "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-category",
        "code": "sdoh"
      }
```

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```
      ]
     }
    ],
    "code": {
     "coding": [
      {
       "system": "http://hl7.org/fhir/sid/icd-10-cm",
       "code": "M25.541"
      }
     ],
     "text": "Pain in joints of right hand"
    },
    "subject": {
     "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
     "display": "Rachel Anderrson"
    },
    "onsetDateTime": "2022-11-17T08:35:37.0Z",
    "abatementDateTime": "2022-10-15T00:00:00.0Z",
    "recordedDate": "2022-11-17T08:35:37.0Z"
   }
  },
  {
   "fullUrl": "https://fhir-demo.digidms.com/fhir/Condition/6R2UF7tvHP8i6RytXv0HQFK/_history/2650",
   "resource": {
    "resourceType": "Condition",
    "id": "6R2UF7tvHP8i6RytXv0HQFK",
    "meta": {
```

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"versionId": "2650",

"lastUpdated": "2025-11-15T10:37:49.422-05:00"

},

"text": {

"status": "generated",

"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Clinical Status: resolved</h2>\r\n <h2>Category: problem-list-item</h2>\r\n <h2>Code: Cough</h2>\r\n <h2>Verification Status: confirmed</h2>\r\n Subject: Rachel Anderrson \r\n "

},

"clinicalStatus": {

"coding": [

{

"system": "http://terminology.hl7.org/CodeSystem/condition-clinical",

"code": "resolved"

}

]

},

"verificationStatus": {

"coding": [

{

"system": "http://terminology.hl7.org/CodeSystem/condition-ver-status",

"code": "confirmed"

}

]

},

"category": [

{

"coding": [

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```
    {
      "system": "http://terminology.hl7.org/CodeSystem/condition-category",
      "code": "problem-list-item"
    }
   ]
  },
  {
   "coding": [
    {
      "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-category",
      "code": "sdoh"
    }
   ]
  }
],
"code": {
  "coding": [
   {
     "system": "http://hl7.org/fhir/sid/icd-10-cm",
     "code": "R05"
   }
  ],
  "text": "Cough"
},
"subject": {
  "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
  "display": "Rachel Anderrson"
```

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```
    },
    "onsetDateTime": "2022-11-17T08:36:13.0Z",
    "abatementDateTime": "2022-11-17T00:00:00.0Z",
    "recordedDate": "2022-11-17T08:36:13.0Z"
   }
  },
  {
   "fullUrl": "https://fhir-demo.digidms.com/fhir/Condition/6R2UF7tvHP8i6RytXv0HQNa/_history/2643",
   "resource": {
    "resourceType": "Condition",
    "id": "6R2UF7tvHP8i6RytXv0HQNa",
    "meta": {
     "versionId": "2643",
     "lastUpdated": "2025-11-15T10:37:49.696-05:00"
    },
    "text": {
     "status": "generated",
     "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>Clinical Status:  resolved</h2>\r\n
<h2>Category: problem-list-item</h2>\r\n  <h2>Code: Fever, unspecified</h2>\r\n  <h2>Verification Status:
confirmed</h2>\r\n  <div>Subject: Rachel Anderrson</div>\r\n</div>"
    },
    "clinicalStatus": {
     "coding": [
      {
       "system": "http://terminology.hl7.org/CodeSystem/condition-clinical",
       "code": "resolved"
      }
     ]
```

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```
},
"verificationStatus": {
 "coding": [
  {
   "system": "http://terminology.hl7.org/CodeSystem/condition-ver-status",
   "code": "confirmed"
  }
 ]
},
"category": [
 {
  "coding": [
   {
    "system": "http://terminology.hl7.org/CodeSystem/condition-category",
    "code": "problem-list-item"
   }
  ]
 },
 {
  "coding": [
   {
    "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-category",
    "code": "sdoh"
   }
  ]
 }
],
```

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```
    "code": {
     "coding": [
       {
         "system": "http://hl7.org/fhir/sid/icd-10-cm",
         "code": "R50.9"
       }
     ],
     "text": "Fever, unspecified"
    },
    "subject": {
     "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
     "display": "Rachel Anderrson"
    },
    "onsetDateTime": "2022-11-24T02:50:47.0Z",
    "abatementDateTime": "2022-09-15T00:00:00.0Z",
    "recordedDate": "2022-11-24T02:50:47.0Z"
  }
},
{
  "fullUrl": "https://fhir-demo.digidms.com/fhir/Condition/6R2UF7tvHP8i6RytXv0Hh1p/_history/1008",
  "resource": {
    "resourceType": "Condition",
    "id": "6R2UF7tvHP8i6RytXv0Hh1p",
    "meta": {
      "versionId": "1008",
      "lastUpdated": "2025-11-15T10:37:49.967-05:00"
    },
```

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"text": {
"status": "generated",
"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Clinical Status: active</h2>\r\n <h2>Category: problem-list-item</h2>\r\n <h2>Code: Type 2 diabetes mellitus without complications</h2>\r\n <h2>Verification Status: confirmed</h2>\r\n Subject: Rachel Anderrson \r\n "
},
"clinicalStatus": {
"coding": [
{
"system": "http://terminology.hl7.org/CodeSystem/condition-clinical",
"code": "active"
}
]
},
"verificationStatus": {
"coding": [
{
"system": "http://terminology.hl7.org/CodeSystem/condition-ver-status",
"code": "confirmed"
}
]
},
"category": [
{
"coding": [
{
"system": "http://terminology.hl7.org/CodeSystem/condition-category",
"code": "problem-list-item"

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```
      }
     ]
    },
    {
     "coding": [
      {
       "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-category",
       "code": "sdoh"
      }
     ]
    }
  ],
  "code": {
   "coding": [
    {
     "system": "http://hl7.org/fhir/sid/icd-10-cm",
     "code": "E11.9"
    }
   ],
   "text": "Type 2 diabetes mellitus without complications"
  },
  "subject": {
   "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
   "display": "Rachel Anderrson"
  },
  "onsetDateTime": "2025-11-04T11:16:59.0Z",
  "recordedDate": "2025-11-04T11:16:59.0Z"
```

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```
    }
   }
  ]
}
```

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Request: Implantable Device

Search Parameters

GET [FHIRBaseURL]/Device?patient=[id]
e.g. [FHIRBaseURL]/Device?patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b

Optional Search Parameters:
GET [base]/Device?patient=[reference]&type={system|}[code]

https://fhir-demo.digidms.com/fhir/Device?patient=6R2UF8FRAYSyIT10h0mwVeS

Response

- Each resource returned from the first search is expected to conform to the US Core Implantable Device Profile

Profile
Code: 200 (Success)

{

"resourceType": "Bundle",

"id": "9767459e-2fa1-4180-9164-43bde4a402b3",

"type": "searchset",

"total": 2,

"link": [

{

"relation": "self",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=b5ae078c-28a8-45ad-b14e-749518be2ce2&_offset=0"

},

{

"relation": "first",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=b5ae078c-28a8-45ad-b14e-749518be2ce2&_offset=0"

},

{

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"relation": "last",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=b5ae078c-28a8-45ad-b14e-749518be2ce2&_offset=0"

}

],

"entry": [

{

"fullUrl": "https://fhir-demo.digidms.com/fhir/Device/1N7EsVitg41e1iqhOt/_history/2209",

"resource": {

"resourceType": "Device",

"id": "1N7EsVitg41e1iqhOt",

"meta": {

"versionId": "2209",

"lastUpdated": "2025-11-15T10:38:04.839-05:00",

"profile": [

"http://hl7.org/fhir/us/core/StructureDefinition/us-core-implantable-device"

]

},

"text": {

"status": "generated",

"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>id: 1N7EsVitg41e1iqhOt</h2>\r\n <h2>status: Active</h2>\r\n <h2>ExpirationDate: 2028-04-05</h2>\r\n "

},

"udiCarrier": [

{

"deviceIdentifier": "H67909402224S0",

"carrierHRF": "H67909402224S0"

}

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```
    ],
    "status": "active",
    "distinctIdentifier": "H67909402224S0",
    "manufactureDate": "2015-09-14",
    "expirationDate": "2028-04-05",
    "lotNumber": "09.402.224S",
    "serialNumber": "09.402.224S",
    "type": {
     "coding": [
       {
         "system": "http://snomed.info/sct",
         "code": "118394003"
       }
     ],
     "text": "Below elbow cast, device"
    },
    "patient": {
     "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
     "display": "Rachel Anderrson"
    },
    "parent": {
     "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
     "display": "Rachel Anderrson"
    }
  }
},
{
```

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```
"fullUrl": "https://fhir-demo.digidms.com/fhir/Device/1N7EsVitg41e1iqhT0/_history/2190",
"resource": {
 "resourceType": "Device",
 "id": "1N7EsVitg41e1iqhT0",
 "meta": {
  "versionId": "2190",
  "lastUpdated": "2025-11-15T10:38:05.101-05:00",
  "profile": [
   "http://hl7.org/fhir/us/core/StructureDefinition/us-core-implantable-device"
  ]
 },
 "text": {
  "status": "generated",
  "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>id: 1N7EsVitg41e1iqhT0</h2>\r\n
<h2>status: Active</h2>\r\n</div>"
 },
 "udiCarrier": [
  {
   "deviceIdentifier": "MDL2008S0",
   "carrierHRF": "MDL2008S0"
  }
 ],
 "status": "active",
 "distinctIdentifier": "MDL2008S0",
 "manufactureDate": "2017-02-06",
 "lotNumber": "MLD2008S",
 "serialNumber": "MLD2008S",
```

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```
      "type": {
       "coding": [
        {
         "system": "http://snomed.info/sct",
         "code": "84610002"
        }
       ],
       "text": "Implantable dental prosthesis, device"
      },
      "patient": {
       "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
       "display": "Rachel Anderrson"
      },
      "parent": {
       "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
       "display": "Rachel Anderrson"
      }
     }
    }
  ]
}
```

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Request: Diagnostic Report

Search Parameter

patient : GET [FHIRBaseURL]/DiagnosticReport?patient=[id]
patient + code : GET [FHIRBaseURL]/DiagnosticReport?patient=[id]&code={system|}[code]
patient + category: GET [FHIRBaseURL]/DiagnosticReport?patient=[id]&category=LAB

e.g.
https://[FHIRBaseURL]/DiagnosticReport?category=LP29684-5&patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b
https://[FHIRBaseURL]/DiagnosticReport?category=LP7839-6&patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b
https://[FHIRBaseURL]/DiagnosticReport?category=LP29708-2&patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b
https:// [FHIRBaseURL]/fhir/DiagnosticReport?category=LAB&patient=6R2UF8FRAYSyIT10h0mwVeS

Category and codes details can be obtained from US Core DiagnosticReport Profile for Report and Note exchange

Response
Each resource returned from the first search is expected to conform to the US Core DiagnosticReport Profile for Report and Note exchange.
Code: 200 (Success)


```
{
 "resourceType": "Bundle",
 "id": "a87a8318-2dfc-488d-9f0a-6b07d7c29271",
 "type": "searchset",
 "total": 1,
 "link": [
  {
   "relation": "self",
   "url": "[FHIRBaseURL]/DiagnosticReport?_count=10&category=LP29684- 5&patient=17e77411359-
8837d878-ea1e-45b5-bb89-882fdfb2be4b&_page=1"
  }
 ],
 "entry": [
  {
   "id": "17e7b6e6f1c-119e9b8b-11b9-448b-b760-dc116013b654",
   "fullUrl": "[FHIRBaseURL]/DiagnosticReport/17e7b6e6f1c-119e9b8b-11b9-448b-b760- dc116013b654",
   "resource": {
    "resourceType": "DiagnosticReport",
    "id": "17e7b6e6f1c-119e9b8b-11b9-448b-b760-dc116013b654",
    "meta": {
```

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```
  "versionId": "1",
  "lastUpdated": "2022-01-21T06:59:02.053Z",
  "profile": [
   "http://hl7.org/fhir/us/core/StructureDefinition/us-core-diagnosticreport-note"
  ]
 },
 "status": "final",
 "category": [
  {
   "coding": [
    {
     "system": "http://loinc.org",
     "code": "LP29684-5",
     "display": "Radiology"
    }
   ],
   "text": "Radiology"
  }
 ],
 "code": {
  "coding": [
   {
    "system": "http://loinc.org",
    "code": "34117-2",
    "display": "History and physical note"
   }
  ],
  "text": "History and physical note"
 },
 "subject": {
  "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
 },
 "encounter": {
  "reference": "Encounter/17e77566282-0c9c236b-f0bd-45e0-9c61-80991a376967"
 },
 "effectiveDateTime": "1974-01-24T19:33:18-04:00",
 "issued": "1974-01-24T19:33:18.715-04:00",
 "performer": [
  {
   "reference": "Practitioner/17e774bb850-6b7b7f50-ed52-4523-a3a8-60fb0ef71c5b",
   "display": "Dr. Blossom971 Christiansen251"
  },
  {
   "reference": "Practitioner/17e774bb850-6b7b7f50-ed52-4523-a3a8-60fb0ef71c5b"
  },
```

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```
      {
        "reference": "Organization/17e774dca91-e7e4e9e3-390e-4c10-83ae-88beabc176e2"
      }
     ],
     "presentedForm": [
      {
        "contentType": "text/plain",
        "data":
"CjE5NzQtMDEtMjQKCiMgQ2hpZWYgQ29tcGxhaW50Ci0gRGVjcmVhc2VkIGluIEp1ZGdlbWVudAotIENvbmZ1c2lv
bgotIE5hc2FsIENvbmdlc3Rpb24KLSBTbmVlemluZyBGaXRzCi0gTmFzYWwgRGlzY2hhcmdlCi0gQ291Z2gKCgojIEhpc
3Rvcnkgb2YgUHJlc2VudCBJbGxuZXNzCkR1c3RpbjMxIGlzIEgMzMgeWVhci1vbGQgbm9uLWhpc3BhbmljIHdoaXR
lIG1hbGUuIFBhdGllbnQgaGFzIGEgaGlzdG9yeSBvZiBhY3V0ZSBhbGxlcmdpYyByZWFjdGlvbiwgYWN1dGUgYnJvbm
NoaXRpcyAoZGlzb3JkZXIpLCBsYWNlcmF0aW9uIG9mIHRoaWdoLCBvdGl0aXMgbWVkaWEsIHZpcmFsIHNpbnVzaX
RpcyAoZGlzb3JkZXIpLCBzcHJhaW4gb2YgYW5rbGUsIGZpcnN0IGRlZ3JlZSBidXJuLCBmcmFjdHVyZSBvZiBhbmtsZSw
gY2hpbGRob29kIGFzdGhtYS4KCiMgU29jaWFsIEhpc3RvcnkKUGF0aWVudCBpcyBtYXJyaWVkLiBQYXRpZW50IGlzIH
RlbXBvcmFyaWx5IGhvbWVsZXNzLiBQYXRpZW50IGlzIGFuIGFjdGl2ZSBzbW9rZXIgYW5kIGlzIGFuIGFsY29ob2xpYy4
gUGF0aWVudCBpZGVudGlmaWVzIGFzIGhldGVyb3NleHVhbC4KClBhdGllbnQgY29tZXMgZnJvbSBhIG1pZGRsZSBzb
2Npb2Vjb25vbWljIGJhY2tncm91bmQuIFBhdGllbnQgZGlkIG5vdCBmaW5pc2ggaGlnaCBzY2hvb2wuIFBhdGllbnQgY
3VycmVudGx5IGhhcyBBZXRuYS4KCiMgQWxsZXJnaWVzCmxhdGV4IGFsbGVyZ3ksIGFsbGVyZ3kgdG8gc295YQoKIy
BNZWRpY2F0aW9ucwphY2V0YW1pbm9waGVuIDMyNSBtZyBvcmFsIHRhYmxldDsgMTIwIGFjdHVhdCBmbHV0aW
Nhc29uZSBwcm9waW9uYXRlIDAuMDQ0IG1nL2FjdHVhdCBtZXRlcmVkIGRvc2UgaW5oYWxlcjsgbmRhMDIwNTAzI
DIwMCBhY3R1YXQgYWxidXRlcm9sIDAuMDkgbWcvYWN0dWF0IG1ldGVyZWQgZG9zZSBpbmhhbGVyOyBwcmVkb
mlzb25lIDUgbWcgb3JhbCB0YWJsZXQ7IGFzcGlyaW4gODEgbWcgb3JhbCB0YWJsZXQKCiMgQXNzZXNzbWVudCBh
bmQgUGxhbgoKCiMjIFBsYW4KUGF0aWVudCB3YXMgZ2l2ZW4gdGhlIGZvbGxvd2luZyBpbW11bml6YXRpb25zOiB
pbmZsdWVuemEsIHNlYXNvbmFsLCBpbmplY3RhYmxlLCBwcmVzZXJ2YXRpdmUgZnJlZS4gClRoZSBmb2xsb3dpbmc
gcHJvY2VkdXJlcyB3ZXJlIGNvbmR1Y3RlZDoKLSBtZWRpY2F0aW9uIHJlY29uY2lsaWF0aW9uIChwcm9jZWR1cmUpCl
RoZSBwYXRpZW50IHdhcyBwcmVzY3JpYmVkIHRoZSBmb2xsb3dpbmcgbWVkaWNhdGlvbnM6Ci0gMTIwIGFjdHVh
dCBmbHV0aWNhc29uZSBwcm9waW9uYXRlIDAuMDQ0IG1nL2FjdHVhdCBtZXRlcmVkIGRvc2UgaW5oYWxlcgotIG5
kYTAyMDUwMyAyMDAgYWN0dWF0IGFsYnV0ZXJvbC
AwLjA5IG1nL2FjdHVhdCBtZXRlcmVkIGRvc2UgaW5oYWxlcgo="
      }
     ]
    },
    "search": {
     "mode": "match",
     "score": 1
    }
   }
  ]
}
```

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Request: Document reference

Search Parameter

`GET [base]/DocumentReference/[id]` or `GET [base]/DocumentReference?_id=[id]`
`GET [base]/DocumentReference?patient={Type/}[id]`
`GET [base]/DocumentReference?patient={Type/}[id]&category=http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category|clinical-note`

patient : GET [FHIRBaseURL]/DiagnosticReport?patient=[id]
patient + code : GET [FHIRBaseURL]/DiagnosticReport?patient=[id]&code={system|}[code]
patient + category: GET [FHIRBaseURL]/DiagnosticReport?patient=[id]&category=LAB
patient : GET [FHIRBaseURL]/ DocumentReference?patient=[id]

e.g.
https://[FHIRBaseURL]/DocumentReference?id= 1246
https://[FHIRBaseURL]/DocumentReference?patient=1137192
https://[FHIRBaseURL]/DocumentReference?patient=1235541&category=http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category|clinical-note&date=ge2020-01-01T00:00:00Z
https://[FHIRBaseURL]/DocumentReference?patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b

- Category and codes details can be obtained from US Core DocumentReference Profile

Response

- Each resource returned from the first search is expected to conform to the US Core DocumentReference Profile

.
Code: 200 (Success)

{

"resourceType": "Bundle",

"id": "5b48d8ce-f8f2-4bec-b4ad-7a2042d81972",

"type": "searchset",

"total": 7,

"link": [

{

"relation": "self",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=8344d738-9193-4b19-95f4-2114f07168c9&_offset=0"

},

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{
"relation": "first",
"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=8344d738-9193-4b19-95f4-2114f07168c9&_offset=0"
},
{
"relation": "last",
"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=8344d738-9193-4b19-95f4-2114f07168c9&_offset=0"
}
],
"entry": [
{
"fullUrl": "https://fhir-demo.digidms.com/fhir/DocumentReference/9Q5GNH5RE8lHc9qHsbEdbPkJq3vzYVacENx/_history/739",
"resource": {
"resourceType": "DocumentReference",
"id": "9Q5GNH5RE8lHc9qHsbEdbPkJq3vzYVacENx",
"meta": {
"versionId": "739",
"lastUpdated": "2025-11-21T00:00:49.899-05:00"
},
"text": {
"status": "generated",
"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Document Type: Procedure Note</h2>\r\n <h2>Document Date: 11/15/2022 12:00:00 AM -05:00</h2>\r\n <h2>Document Custodian: Drummond Group Inc.</h2>\r\n "
},
"identifier": [

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```
 {
   "system": "https://digidms.com",
   "value": "1085"
 }
],
"status": "current",
"type": {
 "coding": [
  {
   "system": "http://loinc.org",
   "code": "28570-0",
   "display": "Procedure Note"
  }
 ],
 "text": "Procedure Note"
},
"category": [
 {
  "coding": [
   {
    "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",
    "code": "clinical-note",
    "display": "Clinical Note"
   }
  ],
  "text": "Clinical Note"
 }
```

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],
"subject": {
"reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
"display": "Rachel Anderrson"
},
"date": "2022-11-15T00:00:00-05:00",
"author": [
{
"reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
"display": "Best Wayne"
}
],
"custodian": {
"reference": "Organization/QZeGsTxKts3rBldgw4Jwuvv0",
"display": "Drummond Group Inc."
},
"content": [
{
"attachment": {
"contentType": "application/pdf",
"data":
"JVBERi0xLjIgCiXi48/TIAoxIDAgb2JqIAo8PCAKL1R5cGUgL0NhdGFsb2cgCi9QYWdlcyAyIDAgUiAKL1BhZ2VNb2RlIC9Vc2VOb25lIAovVmlld2VyUHJlZmVyZW5jZXMgPDwgCi9GaXRXaW5kb3cgdHJ1ZSAKL1BhZ2VMYXlvdXQgL1NpbmdsZVBhZ2UgCi9Ob25GdWxsU2NyZWVuUGFnZU1vZGUgL1VzZU5vbmUgCj4+IAo+PiAKZW5kb2JqIAo1IDAgb2JqIAo8PCAKL0xlbmd0aCAxNTEwIAovRmlsdGVyIFsgL0ZsYXRlRGVjb2RlIF0gCj4+IAplYW0KeJyVV21z2jgQ/s6v2Jn7cGY
GgyTbGHOfSEibtM3LJNx1OqEfjC1ArW1RyU6O+/W3skygxEmbIXiMta/Prp/dkD4JgODHJfYujBgkeYfUD9Wqubl93/
GGBMyX0oDhNaB4VbzzuVN0GHzo4K/Hjj8iYL6UUiPpDyMjclc/Zx6Jdgc0ag5If+RROLzqxEqT4U6a+SMjvOh4EWsOc
nvv+ZEPGZoJw+HTSX3vBegsazzTgPgUT9Cav/tlzk5mHWpzp+BHQwYjOoLZLncMZBABowRmy44zVVWeyyKF90pW
G7gokn4XZt86gc/A9bwQZmlnEAMNo1o8wgTrcwwEbeGhc5ZlQtuH987nrhc58bb7FWYfOm4wCsFlvpX7++ri+

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VR5cGU9InRleHQveC1obDctdGV4dCt4bWwiPk5vIEZ1bmN0aW9uYWwgb3IgQ29nbml0aXZlIHN0YXR1cyBpcyBkZWZpbmVkPC90ZXh0Pg0KICAgICAgICA8L3NlY3Rpb24+DQogICAgICA8L2NvbXBvbmVudD4NCiAgICA8L3N0cnVjdHVyZWRCb2R5Pg0KICA8L2NvbXBvbmVudD4NCjwvQ2xpbmljYWxEb2N1bWVudD4="


```
        },
        "format": {
          "system": "urn:ietf:rfc:6838",
          "code": "text/plain"
        }
      }
    ],
    "context": {
      "encounter": [
        {
          "reference": "Encounter/QZeGsSqbghZ6NhrSs8Zxfq5d",
          "display": "11/15/2022 12:00:00 AM"
        }
      ],
      "period": {
        "start": "2022-11-23",
        "end": "2022-11-23"
      },
      "sourcePatientInfo": {
        "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
        "display": "Rachel Anderrson"
      }
    }
  }
}
```

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```
 ]
}
```

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Request: Laboratory Result Observation

Search Parameters

patient : GET [FHIRBaseURL]/DiagnosticReport?patient=[id]
patient + code : GET [FHIRBaseURL]/DiagnosticReport?patient=[id]&code={system|}[code]
patient + category: GET [FHIRBaseURL]/DiagnosticReport?patient=[id]&category=LAB

e.g.
https://[FHIRBaseURL]/DiagnosticReport?category=http://terminology.hl7.org/CodeSystem/v2-0074%7CLAB&patient=17e77411359-8837d878- ea1e-45b5-bb89-882fdfb2be4b
https://[FHIRBaseURL]/DiagnosticReport?category=LAB&patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b
https://[FHIRBaseURL]/DiagnosticReport?category=LAB&patient=Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b

Category and codes details can be obtained from US Core DiagnosticReport Profile for Laboratory Results Reporting.

Response
Each resource returned from the first search is expected to conform to the US Core DiagnosticReport Profile for Laboratory Results Reporting

Code: 200 (Success)


```
{
 "resourceType": "Bundle",
 "id": "019290b1-c4e1-4025-862c-60ffc3a6160b",
 "type": "searchset",
 "total": 1,
 "link": [
  {
   "relation": "self",
   "url": "[FHIRBaseURL]/DiagnosticReport?_count=10&category=http://terminology.hl7.org/CodeSystem/v2-0074%7CLAB&patient=17e77411359- 8837d878-ea1e-45b5-bb89-882fdfb2be4b&_page=1"
  }
 ],
 "entry": [
  {
   "id": "17e7b7b7e66-36f4cf84-3482-4e36-8cca-13cc832b3bed",
   "fullUrl": "[FHIRBaseURL]/DiagnosticReport/17e7b7b7e66-36f4cf84-3482-4e36-8cca- 13cc832b3bed",
   "resource": {
    "resourceType": "DiagnosticReport",
    "id": "17e7b7b7e66-36f4cf84-3482-4e36-8cca-13cc832b3bed",
    "meta": {
     "versionId": "1",
```

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```
 "lastUpdated": "2022-01-21T07:13:17.926Z",
 "profile": [
  "http://hl7.org/fhir/us/core/StructureDefinition/us-core-diagnosticreport-lab"
 ]
},
"status": "final",
"category": [
 {
  "coding": [
   {
    "system": "http://terminology.hl7.org/CodeSystem/v2-0074",
    "code": "LAB",
    "display": "Laboratory"
   }
  ]
 }
],
"code": {
 "coding": [
  {
   "system": "http://loinc.org",
   "code": "51990-0",
   "display": "Basic Metabolic Panel"
  }
 ],
 "text": "Basic Metabolic Panel"
},
"subject": {
 "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
},
"encounter": {
 "reference": "Encounter/17e77566282-0c9c236b-f0bd-45e0-9c61-80991a376967"
},
"effectiveDateTime": "2017-09-28T19:33:18-04:00",
"issued": "2017-09-28T19:33:18.715-04:00",
"performer": [
 {
  "reference": "Organization/17e774dca91-e7e4e9e3-390e-4c10-83ae-88beabc176e2",
  "display": "PCP170967"
 },
 {
  "reference": "Practitioner/17e774bb850-6b7b7f50-ed52-4523-a3a8-60fb0ef71c5b"
 },
 {
  "reference": "Organization/17e774dca91-e7e4e9e3-390e-4c10-83ae-88beabc176e2"
```

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```
      }
     ],
     "result": [
      {
       "reference": "Observation/17e77809e90-d5cfd26d-ab5d-4f36-bc32-1ee799b2c278",
       "display": "Glucose"
      },
      {
       "reference": "Observation/17e7785ea69-6c9f88d9-0553-4216-be17-f908ebe0b371",
       "display": "Urea Nitrogen"
      }
     ]
    },
    "search": {
     "mode": "match",
     "score": 1
    }
   }
 ]
}
```

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Request: GOAL

GET https://[FHIRBaseURL]/Goal?patient=[id]
e.g.
https://[FHIRBaseURL]/Goal?patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b
https://fhir-demo.digidms.com/fhir/Goal?patient=6R2UF8FRAYSyIT10h0mwVeS

Optional Search Parameters:
GET [base]/Goal?patient=[id]&lifecycle-status={system|}[code]

Response
Each resource returned from the first search is expected to conform to the US Core Goal Profile
Code: 200 (Success)

{

"resourceType": "Bundle",

"id": "8fbf0fd0-7418-4faa-a9fc-c8b84951d961",

"type": "searchset",

"total": 2,

"link": [

{

"relation": "self",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=c2a60a86-d062-4bd0-abef-d9ab08b6826b&_offset=0"

},

{

"relation": "first",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=c2a60a86-d062-4bd0-abef-d9ab08b6826b&_offset=0"

},

{

"relation": "last",

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"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=c2a60a86-d062-4bd0-abef-d9ab08b6826b&_offset=0"

}

],

"entry": [

{

"fullUrl": "https://fhir-demo.digidms.com/fhir/Goal/4zXBzUYh2YpsOu2/_history/30",

"resource": {

"resourceType": "Goal",

"id": "4zXBzUYh2YpsOu2",

"meta": {

"versionId": "30",

"lastUpdated": "2022-11-29T01:40:51.206-05:00"

},

"text": {

"status": "generated",

"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>id: 4zXBzUYh2YpsOu2</h2>\r\n <h2>lifecycleStatus: Active</h2>\r\n <h2>description: Eat Food based on Given Diet plan</h2>\r\n <h2>Patient: Rachel Anderrson</h2>\r\n <h2> Target outcome : For Good Digestion</h2>\r\n <h2> due : 2022-11-22</h2>\r\n "

},

"lifecycleStatus": "active",

"description": {

"coding": [

{

"code": "Eat Food based on Given Diet plan"

}

],

"text": "Eat Food based on Given Diet plan"

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```
    },
    "subject": {
     "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
     "display": "Rachel Anderrson"
    },
    "target": [
     {
      "measure": {
       "text": "For Good Digestion"
      },
      "detailString": "For Good Digestion",
      "dueDate": "2022-11-22"
     }
    ]
   }
  },
  {
   "fullUrl": "https://fhir-demo.digidms.com/fhir/Goal/4zXBzUYh2YpsOu3/_history/30",
   "resource": {
    "resourceType": "Goal",
    "id": "4zXBzUYh2YpsOu3",
    "meta": {
     "versionId": "30",
     "lastUpdated": "2022-11-29T01:40:51.239-05:00"
    },
    "text": {
     "status": "generated",
```

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"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>id: 4zXBzUYh2YpsOu3</h2>\r\n <h2>lifecycleStatus: Cancelled</h2>\r\n <h2>description: Do Exercise to reduced the Pain. Follow Given Exercise Daily at morning.</h2>\r\n <h2>Patient: Rachel Anderrson</h2>\r\n <h2> Target outcome : Reduced the Pain</h2>\r\n <h2> due : 2022-05-09</h2>\r\n "

},

"lifecycleStatus": "cancelled",

"description": {

"coding": [

{

"code": "Do Exercise to reduced the Pain. Follow Given Exercise Daily at morning."

}

],

"text": "Do Exercise to reduced the Pain. Follow Given Exercise Daily at morning."

},

"subject": {

"reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",

"display": "Rachel Anderrson"

},

"target": [

{

"measure": {

"text": "Reduced the Pain"

},

"detailString": "Reduced the Pain",

"dueDate": "2022-05-09"

}

]

}

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}
]
}

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Request: Immunization

GET https://[FHIRBaseURL]/Immunization?patient=[id]
e.g.
https://[FHIRBaseURL]/ Immunization?patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b

Optional Search Parameters:
GET [base]/Immunization?patient=[reference]&date={gt|lt|ge|le}
i.e:
GET [base]/Immunization?patient=1137192
GET [base]/Immunization?patient=1137192&date=ge2019-01-14
https://fhir-demo.digidms.com/fhir/Immunization?patient=6R2UF8FRAYSyIT10h0mwVeS

Response
Each resource returned from the first search is expected to conform to the US Core Immunization Profile
Code: 200 (Success)


```
{
 "resourceType": "Bundle",
 "id": "61a8a1b3-4ac0-46e4-b13b-b2b48cb6bf4a",
 "type": "searchset",
 "total": 2,
 "link": [
  {
   "relation": "self",
   "url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=839b54d8-f4fe-4ca6-a6ec-
428d4f5530eb&_offset=0"
  },
  {
   "relation": "first",
   "url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=839b54d8-f4fe-4ca6-a6ec-
428d4f5530eb&_offset=0"
  },
  {
   "relation": "last",
   "url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=839b54d8-f4fe-4ca6-a6ec-
428d4f5530eb&_offset=0"
  }
 ],
 "entry": [
  {
   "fullUrl": "https://fhir-
demo.digidms.com/fhir/Immunization/7J4cj3D7L6JbAbkW9TJtenS4ktc/_history/2654",
   "resource": {
```

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```
      "resourceType": "Immunization",
      "id": "7J4cj3D7L6JbAbkW9TJtenS4ktc",
      "meta": {
       "versionId": "2654",
       "lastUpdated": "2025-11-15T10:38:04.314-05:00"
      },
      "text": {
       "status": "generated",
       "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>id:
7J4cj3D7L6JbAbkW9TJtenS4ktc</h2>\r\n  <h2>status: Completed</h2>\r\n  <h2>vaccineCode: diphtheria
antitoxin</h2>\r\n  <h2>patient: Rachel Anderrson</h2>\r\n  <h2>primarySource: True</h2>\r\n</div>"
      },
      "status": "completed",
      "vaccineCode": {
       "coding": [
        {
         "system": "http://hl7.org/fhir/sid/cvx",
         "code": "113",
         "display": "diphtheria antitoxin"
        }
       ],
       "text": "diphtheria antitoxin"
      },
      "patient": {
       "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
       "display": "Rachel Anderrson"
      },
      "occurrenceDateTime": "1982-11-15",
      "primarySource": true
     }
    },
    {
     "fullUrl": "https://fhir-
demo.digidms.com/fhir/Immunization/7J4cj3D7L6JbAbkW9TJtenS4ktd/_history/2654",
     "resource": {
      "resourceType": "Immunization",
      "id": "7J4cj3D7L6JbAbkW9TJtenS4ktd",
      "meta": {
       "versionId": "2654",
       "lastUpdated": "2025-11-15T10:38:04.575-05:00"
      },
      "text": {
       "status": "generated",
       "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>id:
7J4cj3D7L6JbAbkW9TJtenS4ktd</h2>\r\n  <h2>status: NotDone</h2>\r\n  <h2>vaccineCode: hepatitis A
```

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vaccine, adult dosage >=18 years, 2 dose series</h2>\r\n <h2>patient: Rachel Anderrson</h2>\r\n
<h2>primarySource: True</h2>\r\n "
      },
      "status": "not-done",
      "statusReason": {
       "coding": [
        {
         "system": "http://snomed.info/sct",
         "code": "160932005"
        }
       ],
       "text": "Financial problem (finding)"
      },
      "vaccineCode": {
       "coding": [
        {
         "system": "http://hl7.org/fhir/sid/cvx",
         "code": "83",
         "display": "hepatitis A vaccine, adult dosage >=18 years, 2 dose series"
        }
       ],
       "text": "hepatitis A vaccine, adult dosage >=18 years, 2 dose series"
      },
      "patient": {
       "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
       "display": "Rachel Anderrson"
      },
      "occurrenceDateTime": "2008-11-15",
      "primarySource": true
     }
    }
  ]
}

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Request: Medication Request

```
GET [base]/MedicationRequest?patient={Type/}[id]&intent=order,plan
GET
[base]/MedicationRequest?patient={Type/}[id]&intent=order,plan&status={system|}[code]{,{system|}[code
],...}
```

GET https://[FHIRBaseURL]/MedicationRequest?patient=[id]
e.g. https://[FHIRBaseURL]/MedicationRequest?patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b&intent=order&status=active

Optional Search Parameters:
GET [base]/MedicationRequest?patient=[id]&intent=order,plan&encounter=[reference]

i.e.
https://fhir-demo.digidms.com/fhir/MedicationRequest?intent=proposal&patient=6R2UF8FRAYSyIT10h0mwVeS

Response
Each resource returned from the first search is expected to conform to the US Core MedicationRequest Profile

Code: 200 (Success)


```
{
 "resourceType": "MedicationRequest",
 "id": "17e7b9b263e-9cd8f64f-f7e1-447e-8583-a753342d13c6",
 "meta": {
  "versionId": "1",
  "lastUpdated": "2022-01-21T07:47:52.51Z",
  "profile": [
   "http://hl7.org/fhir/us/core/StructureDefinition/us-core-medicationrequest"
  ]
 },
 "status": "stopped",
 "intent": "plan",
 "reportedBoolean": true,
 "medicationCodeableConcept": {
  "coding": [
   {
    "system": "http://www.nlm.nih.gov/research/umls/rxnorm",
    "code": "2123111",
    "display": "NDA020503 200 ACTUAT Albuterol 0.09 MG/ACTUAT Metered Dose Inhaler"
   }
  ],
  "text": "NDA020503 200 ACTUAT Albuterol 0.09 MG/ACTUAT Metered Dose Inhaler"
 },
```

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```
 "subject": {
  "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
 },
 "authoredOn": "2020-08-13T19:33:18-04:00",
 "requester": {
  "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
 },
 "reasonReference": [
  {
   "reference": "Condition/17e7777ce8c-c66752fb-ee1b-40c2-ba5a-2e6ee89b3e1a"
  }
 ],
 "dosageInstruction": [
  {
   "sequence": 1,
   "text": "Take as needed.",
   "asNeededBoolean": true
  }
 ]
}
```

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Request: Smoking Status

```
GET [base]/Observation?patient={Type/}[id]&code={system|}[code]{,{system|}[code],...}
```

```
GET
[base]/Observation?patient={Type/}[id]&category={http://terminology.hl7.org/CodeSystem/observation-category|}social-history
```

e.g. https://[FHIRBaseURL]/Observation?code=72166-2&patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b

https://fhir-demo.digidms.com/fhir/Observation?code=2708-6&patient=6R2UF8FRAYSyIT10h0mwVeS

Response

Each resource returned from the first search is expected to conform to the US Core Smoking Status Observation Profile

Code: 200 (Success)


```
{
 "resourceType": "Bundle",
 "id": "2ea85043-b450-40f1-8d2d-751af1c10abb",
 "type": "searchset",
 "total": 2,
 "link": [
  {
   "relation": "self",
   "url": "[FHIRBaseURL]/Observation?_count=10&code=72166-2&patient=17e77411359- 8837d878-ea1e-45b5-bb89-882fdfb2be4b&_page=1"
  }
 ],
 "entry": [
  {
   "id": "17e77809e90-d5cfd26d-ab5d-4f36-bc32-1ee799b2c278",
   "fullUrl": "[FHIRBaseURL]/Observation/17e77809e90-d5cfd26d-ab5d-4f36-bc32- 1ee799b2c278",
   "resource": {
    "resourceType": "Observation",
    "id": "17e77809e90-d5cfd26d-ab5d-4f36-bc32-1ee799b2c278",
    "meta": {
     "versionId": "1",
     "lastUpdated": "2022-01-20T12:40:24.976Z",
     "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-smokingstatus"
     ]
    },
    "status": "final",
    "category": [
     {
      "coding": [
```

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```
        {
          "system": "http://terminology.hl7.org/CodeSystem/observation-category",
          "code": "survey",
          "display": "survey"
        }
       ]
     }
    ],
    "code": {
     "coding": [
      {
       "system": "http://loinc.org",
       "code": "72166-2",
       "display": "Tobacco smoking status NHIS"
      }
     ],
     "text": "Tobacco smoking status NHIS"
    },
    "subject": {
     "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
    },
    "encounter": {
     "reference": "Encounter/17e77566282-0c9c236b-f0bd-45e0-9c61-80991a376967"
    },
    "effectivePeriod": {
     "start": "1940-09-05T19:33:18-04:00",
     "end": "1940-09-05T20:33:18-04:00"
    },
    "issued": "1940-09-05T19:33:18.715-04:00",
    "valueCodeableConcept": {
     "coding": [
      {
       "system": "http://snomed.info/sct",
       "code": "266919005",
       "display": "Never smoker"
      }
     ]"text": "Never smoker"
    }
   },
   "search": {
    "mode": "match",
    "score": 1
   }
  },
  {
```

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"id": "17e7785ea69-6c9f88d9-0553-4216-be17-f908ebe0b371",
"fullUrl": "[FHIRBaseURL]/Observation/17e7785ea69-6c9f88d9-0553-4216-be17- f908ebe0b371",
"resource": {
 "resourceType": "Observation",
 "id": "17e7785ea69-6c9f88d9-0553-4216-be17-f908ebe0b371",
 "meta": {
  "versionId": "1",
  "lastUpdated": "2022-01-20T12:46:12.073Z",
  "profile": [
   "http://hl7.org/fhir/us/core/StructureDefinition/us-core-smokingstatus"
  ]
 },
 "status": "final",
 "category": [
  {
   "coding": [
    {
     "system": "http://terminology.hl7.org/CodeSystem/observation-category",
     "code": "survey",
     "display": "survey"
    }
   ]
  }
 ],
 "code": {
  "coding": [
   {
    "system": "http://loinc.org",
    "code": "72166-2",
    "display": "Tobacco smoking status NHIS"
   }
  ],
  "text": "Tobacco smoking status NHIS"
 },
 "subject": {
  "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
 },
 "encounter": {
  "reference": "Encounter/17e77566282-0c9c236b-f0bd-45e0-9c61-80991a376967"
 },
 "effectivePeriod": {
  "start": "1940-09-05T19:33:18-04:00",
  "end": "1940-09-05T20:33:18-04:00"
 },
 "issued": "1940-09-05T19:33:18.715-04:00",

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```
      "valueCodeableConcept": {
        "coding": [
          {
            "system": "http://snomed.info/sct",
            "code": "266919005",
            "display": "Never smoker"
          }
        ],
        "text": "Never smoker"
      }
    },
    "search": {
      "mode": "match",
      "score": 1
    }
  }
 ]
}
```

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Request: Procedure

GET https://[FHIRBaseURL]/Procedure?patient=[id]

```
GET [base]/Procedure?patient={Type/}[id]&date={gt|lt|ge|le}[date]{&date={gt|lt|ge|le}[date]&...}
```

e.g. https://[FHIRBaseURL]/Procedure?patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b

Optional Search Parameters:

GET [base]/Procedure?patient=1137192&status=completed

https://fhir-demo.digidms.com/fhir/Procedure?patient=6R2UF8FRAYSyIT10h0mwVeS

Response

Each resource returned from the first search is expected to conform to the US Core Procedure Profile
Code: 200 (Success)

{

"resourceType": "Bundle",

"id": "d823eae7-2a7a-4a5d-965a-e5ee01a96fb9",

"type": "searchset",

"total": 4,

"link": [

{

"relation": "self",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=9849efd7-a936-4836-9ae8-992d9c316611&_offset=0"

},

{

"relation": "first",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=9849efd7-a936-4836-9ae8-992d9c316611&_offset=0"

},

{

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"relation": "last",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=9849efd7-a936-4836-9ae8-992d9c316611&_offset=0"

}

],

"entry": [

{

"fullUrl": "https://fhir-demo.digidms.com/fhir/Procedure/6R2UF8FY0IZv8MhWm6NZWGy/_history/2615",

"resource": {

"resourceType": "Procedure",

"id": "6R2UF8FY0IZv8MhWm6NZWGy",

"meta": {

"versionId": "2615",

"lastUpdated": "2025-11-15T10:38:05.621-05:00"

},

"text": {

"status": "generated",

"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Status: Completed</h2>\r\n <h2>Code: EAR WAX REMOVAL (380.4)</h2>\r\n Subject: Rachel Anderrson \r\n <h2>Performed: 2022-11-15</h2>\r\n "

},

"status": "completed",

"code": {

"coding": [

{

"system": "http://www.ama-assn.org/go/cpt",

"code": "69210"

}

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```
      ],
      "text": "EAR WAX REMOVAL (380.4)"
    },
    "subject": {
      "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
      "display": "Rachel Anderrson"
    },
    "performedDateTime": "2022-11-15",
    "performer": [
      {
        "actor": {
          "reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
          "display": "Best Wayne"
        }
      }
    ]
  }
},
{
  "fullUrl": "https://fhir-demo.digidms.com/fhir/Procedure/6R2UF8FY0IZv8MhWm6NZWPE/_history/2611",
  "resource": {
    "resourceType": "Procedure",
    "id": "6R2UF8FY0IZv8MhWm6NZWPE",
    "meta": {
      "versionId": "2611",
      "lastUpdated": "2025-11-15T10:38:05.892-05:00"
    },
```

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"text": {
"status": "generated",
"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Status: Completed</h2>\r\n <h2>Code: ECHO CARDIOGRAM</h2>\r\n Subject: Rachel Anderrson \r\n <h2>Performed: 2022-11-23</h2>\r\n "
},
"status": "completed",
"code": {
"coding": [
{
"system": "http://www.ama-assn.org/go/cpt",
"code": "93306"
}
],
"text": "ECHO CARDIOGRAM"
},
"subject": {
"reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
"display": "Rachel Anderrson"
},
"performedDateTime": "2022-11-23",
"performer": [
{
"actor": {
"reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
"display": "Best Wayne"
}
}

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```
    ]
   }
  },
  {
   "fullUrl": "https://fhir-demo.digidms.com/fhir/Procedure/6R2UF8FY0IZv8MhWm6NZWPF/_history/2610",
   "resource": {
    "resourceType": "Procedure",
    "id": "6R2UF8FY0IZv8MhWm6NZWPF",
    "meta": {
     "versionId": "2610",
     "lastUpdated": "2025-11-15T10:38:06.167-05:00"
    },
    "text": {
     "status": "generated",
     "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>Status: Completed</h2>\r\n  <h2>Code: Bx Skn Subq/muc Memb 1 Lesion</h2>\r\n  <div>Subject: Rachel Anderrson</div>\r\n  <h2>Performed: 2022-11-23</h2>\r\n</div>"
    },
    "status": "completed",
    "code": {
     "coding": [
      {
       "system": "http://www.ama-assn.org/go/cpt",
       "code": "11100"
      }
     ],
     "text": "Bx Skn Subq/muc Memb 1 Lesion"
    },
```

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```
    "subject": {
      "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
      "display": "Rachel Anderrson"
    },
    "performedDateTime": "2022-11-23",
    "performer": [
      {
        "actor": {
          "reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
          "display": "Best Wayne"
        }
      }
    ]
  }
},
{
  "fullUrl": "https://fhir-demo.digidms.com/fhir/Procedure/6R2UF8FY0IZv8MhWm6Na4yA/_history/1012",
  "resource": {
    "resourceType": "Procedure",
    "id": "6R2UF8FY0IZv8MhWm6Na4yA",
    "meta": {
      "versionId": "1012",
      "lastUpdated": "2025-11-15T10:38:05.361-05:00"
    },
    "text": {
      "status": "generated",
```

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"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Status: InProgress</h2>\r\n <h2>Code: Suicide risk assessed (MDD) </h2>\r\n Subject: Rachel Anderrson \r\n <h2>Performed: 2022-02-10</h2>\r\n "

},

"status": "in-progress",

"code": {

"coding": [

{

"system": "http://www.ama-assn.org/go/cpt",

"code": "3085F"

}

],

"text": "Suicide risk assessed (MDD)"

},

"subject": {

"reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",

"display": "Rachel Anderrson"

},

"performedDateTime": "2022-02-10",

"performer": [

{

"actor": {

"reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",

"display": "Best Wayne"

}

}

]

}

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}
]
}

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Request: Provenance

GET https://[FHIRBaseURL]/Provenance/[id]
e.g.
https://[FHIRBaseURL]/ /Provenance/17e8adbdd12-21675728-3f52-4320-8b3b-d5977915336c

Response

Each resource returned from the first search is expected to conform to the US Core Provenance Profile
Code: 200 (Success)


```
{
 "resourceType": "Provenance",
 "id": "17e8adbdd12-21675728-3f52-4320-8b3b-d5977915336c",
 "meta": {
  "versionId": "5",
  "lastUpdated": "2022-01-31T12:51:12.934Z",
  "profile": [
   "http://hl7.org/fhir/us/core/StructureDefinition/us-core-provenance"
  ]
 },
 "target": [
  {
   "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
  },
  {
   "reference": "Location/17e7750e68f-6266aec8-0cd3-443e-adb9-be37f3bf25f2"
  },
  {
   "reference": "Organization/17e774dca91-e7e4e9e3-390e-4c10-83ae-88beabc176e2"
  },
  {
   "reference": "Practitioner/17e774bb850-6b7b7f50-ed52-4523-a3a8-60fb0ef71c5b"
  },
  {
   "reference": "Encounter/17e77566282-0c9c236b-f0bd-45e0-9c61-80991a376967"
  },
  {
   "reference": "AllergyIntolerance/17e7758c319-7955ecfe-94da-4071-8488-4ef21425ed85"
  },
  {
   "reference": "CareTeam/17e775e7546-36e6a4cd-264e-4a94-92fa-cdf1b2fa30c1"
  },
  {
   "reference": "CarePlan/17e776e13ff-1ea7505d-f475-4f49-adde-30e69df86734"
  },
```

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{
"reference": "Condition/17e7777ce8c-c66752fb-ee1b-40c2-ba5a-2e6ee89b3e1a"
},
{
"reference": "Condition/17eb029f925-40603327-0ac3-48dd-972b-6c882b8751f5"
},
{
"reference": "Device/17e777b3f34-04bc3627-92d3-43bb-92e7-35533110f750"
},
{
"reference": "Observation/17e77809e90-d5cfd26d-ab5d-4f36-bc32-1ee799b2c278"
},
{
"reference": "Observation/17e7785ea69-6c9f88d9-0553-4216-be17-f908ebe0b371"
},
{
"reference": "Observation/17e778a9113-66c19e50-1b3f-41fd-a4da-ef86393fb0b2"
},
{
"reference": "Observation/17e778d42db-92528d6f-7103-40fb-99ca-b2ac8837210d"
},
{
"reference": "Observation/17e7791dd19-11eaf5c1-a5c0-429c-9867-f3110c743572"
},
{
"reference": "Observation/17e77947034-7677a2e6-33af-4e06-83ae-a6727ac79885"
},
{
"reference": "Observation/17e7797685b-e707227d-0cb5-4b28-bab2-ca1f4a1ba111"
},
{
"reference": "Observation/17e7799a564-8f9ed437-d396-46bf-8f68-bf728955654c"
},
{
"reference": "Observation/17e779bc672-37c76705-1f73-4531-bfcb-ee3cd3e25bfd"
},
{
"reference": "Observation/17e77a065f3-77947ea0-1b53-47a5-9a9e-10f6e169f292"
},
{
"reference": "Observation/17e77a29d41-85ec6814-a99a-4a73-ae02-f6a494a11468"
},
{
"reference": "Observation/17e77a53c30-b356fe0d-d90b-42ed-91f9-5ed08c8047ca"
},

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{
"reference": "Observation/17e7c606d8a-9aeab44c-0261-465d-8930-4a218b201bf5"
},
{
"reference": "DiagnosticReport/17e7b6e6f1c-119e9b8b-11b9-448b-b760-dc116013b654"
},
{
"reference": "DiagnosticReport/17e7b741f29-4b6b813d-d11e-4597-8178-5bc5996ac4e4"
},
{
"reference": "DiagnosticReport/17e7b7b7e66-36f4cf84-3482-4e36-8cca-13cc832b3bed"
},
{
"reference": "DiagnosticReport/17e7d0e6d1d-c0e0136b-81d4-4164-a8b8-863694276a4f"
},
{
"reference": "DocumentReference/17e7b838c61-4be99b80-0f94-4b26-a086-a30ed78c91ce"
},
{
"reference": "DocumentReference/17e7d144d28-7d79ed3e-ca9e-400d-a9ed-add23f5cef07"
},
{
"reference": "DocumentReference/17e7d19866c-dbbaa2e9-4d81-44bb-af5d-ec2e829e9c72"
},
{
"reference": "DocumentReference/17e7d1c49cd-bfb30b25-9f98-40c7-9d94-977b7b803f21"
},
{
"reference": "DocumentReference/17e7d24c947-205cd8e5-3a93-4ab9-8662-5e92b0080af7"
},
{
"reference": "Goal/17e7b8b62f8-a4f77df6-b97e-4ece-82ff-36480c9cc38c"
},
{
"reference": "Immunization/17e7b8dc9ab-8abc85e3-0ab1-470f-aee8-1f4e9a3597bb"
},
{
"reference": "Immunization/17eb02c0f47-3b8a6c05-ae47-4002-9001-fd61626bfca5"
},
{
"reference": "Medication/17e7b8f47d0-2bf2943a-123e-4725-b5dd-f5200df6c3a2"
},
{
"reference": "MedicationRequest/17e7b94dd8d-d3b0e43a-de55-4822-8bb5-07e5fd6177d9"
},

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{
"reference": "MedicationRequest/17e7b990c43-4525f6a4-81a0-40f7-97c7-7dbebff6e34b"
},
{
"reference": "MedicationRequest/17e7b9b263e-9cd8f64f-f7e1-447e-8583-a753342d13c6"
},
{
"reference": "MedicationRequest/17e7ba05cb1-0a5defbd-deb9-4792-9952-8f7f0e5bc74b"
},
{
"reference": "Procedure/17e7ba24dee-bf67ef6b-6419-4c7c-b905-a107b26bf8fb"
},
{
"reference": "Observation/17e81e97c4b-ea761488-0b67-43d0-a0d7-346dea549bee"
},
{
"reference": "Observation/17e81ebac04-75d9f0f2-fcb2-4e2f-9c22-87fb7ddf5f5e"
},
{
"reference": "Observation/17e81ed9c56-bcda0427-df92-4b58-b3ae-ac11c22f4d7d"
},
{
"reference": "Observation/17e81ef5b5e-40df3e7d-19bc-4c2a-94bc-9a04ff93537c"
},
{
"reference": "Observation/17e81f0fd34-6fc95b32-8346-4aec-9de3-072d12c992a5"
},
{
"reference": "Observation/17e81f291e7-c99c91ac-57dd-47f6-b7f7-a365d2c087d7"
},
{
"reference": "Observation/17e81f4a61d-ff3926f2-e35b-466a-bb6c-62a061425258"
},
{
"reference": "Observation/17e8501692e-8c2d145f-fb69-4ae3-85d1-ef31ebf4a6a2"
},
{
"reference": "Observation/17e8502f180-3c7e4770-3630-4654-922a-3f802c2939b1"
}
],
"recorded": "2020-12-10T18:33:18.715-05:00",
"agent": [
{
"type": {
"coding": [

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```
      {
        "system": "http://terminology.hl7.org/CodeSystem/provenance-participant-type",
        "code": "author",
        "display": "Author"
      }
     ],
     "text": "Author"
    },
    "who": {
     "reference": "Practitioner/17e774bb850-6b7b7f50-ed52-4523-a3a8-60fb0ef71c5b",
     "display": "Dr. Blossom971 Christiansen251"
    },
    "onBehalfOf": {
     "reference": "Organization/17e774dca91-e7e4e9e3-390e-4c10-83ae-88beabc176e2",
     "display": "PCP170967"
    }
   },
   {
    "ype": {
     "coding": [
      {
        "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-provenance-participant-type",
        "code": "transmitter",
        "display": "Transmitter"
      }
     ],
     "text": "Transmitter"
    },
    "who": {
     "reference": "Practitioner/17e774bb850-6b7b7f50-ed52-4523-a3a8-60fb0ef71c5b",
     "display": "Dr. Blossom971 Christiansen251"
    },
    "onBehalfOf": {
     "reference": "Organization/17e774dca91-e7e4e9e3-390e-4c10-83ae-88beabc176e2",
     "display": "PCP170967"
    }
   }
  ]
}
```

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Request: Vital Signs

patient + code: GET https://[FHIRBaseURL]/Observation?code=85354-9&patient=[id]
patient + category + date : GET https://[FHIRBaseURL]/Observation?category=vital-signs&date=[leYYYY-MM-DD] &patient=[id]

e.g.
https://[FHIRBaseURL]/Observation?code=85354-9&patient=Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b
https://[FHIRBaseURL]/Observation?code=85354-9&patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b
https://[FHIRBaseURL]/Observation?category=vital-signs&date=gt1994-05-18T19:33:18-04:00&patient=17e77411359-8837d878-ea1e-45b5-bb89- 882fdfb2be4b

Response
Each resource returned from the first search is expected to conform to the FHIR Core VitalSigns Profile
Code: 200 (Success)


```
{
 "resourceType": "Bundle",
 "id": "231df7ad-8e46-4371-99cc-4ce0dc9c5cb0",
 "type": "searchset",
 "total": 6,
 "link": [
  {
   "relation": "self",
   "url": "[FHIRBaseURL]/Observation?_count=10&category=vital-signs&date=gt1994-05- 18T19:33:18-04:00&patient=17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b&_page=1"
  }
 ],
 "entry": [
  {
   "id": "17e7797685b-e707227d-0cb5-4b28-bab2-ca1f4a1ba111",
   "fullUrl": "[FHIRBaseURL]/Observation/17e7797685b-e707227d-0cb5-4b28-bab2- ca1f4a1ba111",
   "resource": {
    "resourceType": "Observation",
    "id": "17e7797685b-e707227d-0cb5-4b28-bab2-ca1f4a1ba111",
    "meta": {
     "versionId": "1",
     "lastUpdated": "2022-01-20T13:05:18.427Z",
     "profile": [
      "http://hl7.org/fhir/StructureDefinition/bodytemp",
      "http://hl7.org/fhir/StructureDefinition/vitalsigns"
     ]
    },
```

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```
 "status": "final",
 "category": [
  {
   "coding": [
    {
     "system": "http://terminology.hl7.org/CodeSystem/observation-category",
     "code": "vital-signs",
     "display": "vital-signs"
    }
   ]
  }
 ],
 "code": {
  "coding": [
   {
    "system": "http://loinc.org",
    "code": "8310-5",
    "display": "Body temperature"
   },
   {
    "system": "http://loinc.org",
    "code": "8331-1",
    "display": "Oral temperature"
   }
  ],
  "text": "Body temperature"
 },
 "subject": {
  "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
 },
 "encounter": {
  "reference": "Encounter/17e77566282-0c9c236b-f0bd-45e0-9c61-80991a376967"
 },
 "effectiveDateTime": "2009-08-19T19:33:18-04:00",
 "issued": "2009-08-19T19:33:18.715-04:00",
 "valueQuantity": {
  "value": 37.799,
  "unit": "Cel",
  "system": "http://unitsofmeasure.org",
  "code": "Cel"
 }
},
"search": {
 "mode": "match",
 "score": 1
```

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```
 }
},
{
 "id": "17e7799a564-8f9ed437-d396-46bf-8f68-bf728955654c",
 "fullUrl": "[FHIRBaseURL]/Observation/17e7799a564-8f9ed437-d396-46bf-8f68- bf728955654c",
 "resource": {
  "resourceType": "Observation",
  "id": "17e7799a564-8f9ed437-d396-46bf-8f68-bf728955654c",
  "meta": {
   "versionId": "1",
   "lastUpdated": "2022-01-20T13:07:45.124Z",
   "profile": [
    "http://hl7.org/fhir/StructureDefinition/bp",
    "http://hl7.org/fhir/StructureDefinition/vitalsigns"
   ]
  },
  "status": "final",
  "category": [
   {
    "coding": [
     {
      "system": "http://terminology.hl7.org/CodeSystem/observation-category",
      "code": "vital-signs",
      "display": "vital-signs"
     }
    ]
   }
  ],
  "code": {
   "coding": [
    {
     "system": "http://loinc.org",
     "code": "85354-9",
     "display": "Blood Pressure"
    }
   ],
   "text": "Blood Pressure"
  },
  "subject": {
   "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
  },
  "encounter": {
   "reference": "Encounter/17e77566282-0c9c236b-f0bd-45e0-9c61-80991a376967"
  },
  "effectiveDateTime": "1994-05-19T19:33:18-04:00",
```

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```
    "issued": "1994-05-19T19:33:18.715-04:00",
    "component": [
     {
      "code": {
       "coding": [
        {
         "system": "http://loinc.org",
         "code": "8462-4",
         "display": "Diastolic Blood Pressure"
        }
       ],
       "text": "Diastolic Blood Pressure"
      },
      "valueQuantity": {
       "value": 85,
       "unit": "mm[Hg]",
       "system": "http://unitsofmeasure.org",
       "code": "mm[Hg]"
      }
     },
     {
      "code": {
       "coding": [
        {
         "system": "http://loinc.org",
         "code": "8480-6",
         "display": "Systolic Blood Pressure"
        }
       ],
       "text": "Systolic Blood Pressure"
      },
      "valueQuantity": {
       "value": 129,
       "unit": "mm[Hg]",
       "system": "http://unitsofmeasure.org",
       "code": "mm[Hg]"
      }
     }
    ]
   },
   "search": {
    "mode": "match",
    "score": 1
   }
  },
```

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```
{
 "id": "17e77a29d41-85ec6814-a99a-4a73-ae02-f6a494a11468",
 "fullUrl": "[FHIRBaseURL]/Observation/17e77a29d41-85ec6814-a99a-4a73-ae02- f6a494a11468",
 "resource": {
  "resourceType": "Observation",
  "id": "17e77a29d41-85ec6814-a99a-4a73-ae02-f6a494a11468",
  "meta": {
   "versionId": "1",
   "lastUpdated": "2022-01-20T13:17:32.865Z",
   "profile": [
    "http://hl7.org/fhir/StructureDefinition/heartrate",
    "http://hl7.org/fhir/StructureDefinition/vitalsigns"
   ]
  },
  "status": "final",
  "category": [
   {
    "coding": [
     {
      "system": "http://terminology.hl7.org/CodeSystem/observation-category",
      "code": "vital-signs",
      "display": "vital-signs"
     }
    ]
   }
  ],
  "code": {
   "coding": [
    {
     "system": "http://loinc.org",
     "code": "8867-4",
     "display": "Heart rate"
    }
   ],
   "text": "Heart rate"
  },
  "subject": {
   "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
  },
  "encounter": {
   "reference": "Encounter/17e77566282-0c9c236b-f0bd-45e0-9c61-80991a376967"
  },
  "effectiveDateTime": "2003-07-10T19:33:18-04:00",
  "issued": "2003-07-10T19:33:18.715-04:00",
  "valueQuantity": {
```

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```
    "value": 65,
    "unit": "/min",
    "system": "http://unitsofmeasure.org",
    "code": "/min"
   }
  },
  "search": {
   "mode": "match",
   "score": 1
  }
 },
 {
  "id": "17e81ef5b5e-40df3e7d-19bc-4c2a-94bc-9a04ff93537c",
  "fullUrl": "[FHIRBaseURL]/Observation/17e81ef5b5e-40df3e7d-19bc-4c2a-94bc- 9a04ff93537c",
  "resource": {
   "resourceType": "Observation",
   "id": "17e81ef5b5e-40df3e7d-19bc-4c2a-94bc-9a04ff93537c",
   "meta": {
    "versionId": "1",
    "lastUpdated": "2022-01-22T13:17:34.43Z",
    "source": "#iLFSV7OLv0KF8dmQ",
    "profile": [
     "http://hl7.org/fhir/StructureDefinition/vitalsigns",
     "http://hl7.org/fhir/StructureDefinition/bodytemp"
    ]
   },
   "status": "final",
   "category": [
    {
     "coding": [
      {
       "system": "http://terminology.hl7.org/CodeSystem/observation-category",
       "code": "vital-signs",
       "display": "vital-signs"
      }
     ]
    }
   ],
   "code": {
    "coding": [
     {
      "system": "http://loinc.org",
      "code": "8310-5",
      "display": "Body temperature"
     },
```

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```
      {
        "system": "http://loinc.org",
        "code": "8331-1",
        "display": "Oral temperature"
      }
     ],
     "text": "Body temperature"
    },
    "subject": {
     "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
    },
    "encounter": {
     "reference": "Encounter/17e77566282-0c9c236b-f0bd-45e0-9c61-80991a376967"
    },
    "effectiveDateTime": "2009-08-19T19:33:18-04:00",
    "issued": "2009-08-19T19:33:18.715-04:00",
    "dataAbsentReason": {
     "coding": [
      {
       "system": "http://terminology.hl7.org/CodeSystem/data-absent-reason",
       "code": "unknown",
       "display": "Unknown"
      }
     ],
     "text": "Unknown"
    }
   },
   "search": {
    "mode": "match",
    "score": 1
   }
  },
  {
   "id": "17e81f0fd34-6fc95b32-8346-4aec-9de3-072d12c992a5",
   "fullUrl": "[FHIRBaseURL]/Observation/17e81f0fd34-6fc95b32-8346-4aec-9de3- 072d12c992a5",
   "resource": {
    "resourceType": "Observation",
    "id": "17e81f0fd34-6fc95b32-8346-4aec-9de3-072d12c992a5",
    "meta": {
     "versionId": "1",
     "lastUpdated": "2022-01-22T13:19:21.396Z",
     "source": "#iLFSV7OLv0KF8dmQ",
     "profile": [
      "http://hl7.org/fhir/StructureDefinition/vitalsigns",
      "http://hl7.org/fhir/StructureDefinition/bp"
```

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```
 ]
},
"status": "final",
"category": [
 {
  "coding": [
   {
    "system": "http://terminology.hl7.org/CodeSystem/observation-category",
    "code": "vital-signs",
    "display": "vital-signs"
   }
  ]
 }
],
"code": {
 "coding": [
  {
   "system": "http://loinc.org",
   "code": "85354-9",
   "display": "Blood Pressure"
  }
 ],
 "text": "Blood Pressure"
},
"subject": {
 "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
},
"encounter": {
 "reference": "Encounter/17e77566282-0c9c236b-f0bd-45e0-9c61-80991a376967"
},
"effectiveDateTime": "1994-05-19T19:33:18-04:00",
"issued": "1994-05-19T19:33:18.715-04:00",
"dataAbsentReason": {
 "coding": [
  {
   "system": "http://terminology.hl7.org/CodeSystem/data-absent-reason",
   "code": "unknown",
   "display": "Unknown"
  }
 ],
 "text": "Unknown"
},
"component": [
 {
  "code": {
```

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```
      "coding": [
       {
        "system": "http://loinc.org",
        "code": "8462-4",
        "display": "Diastolic Blood Pressure"
       }
      ],
      "text": "Diastolic Blood Pressure"
     },
     "dataAbsentReason": {
      "coding": [
       {
        "system": "http://terminology.hl7.org/CodeSystem/data-absent-reason",
        "code": "unknown",
        "display": "Unknown"
       }
      ],
      "text": "Unknown"
     }
    },
    {
     "code": {
      "coding": [
       {
        "system": "http://loinc.org",
        "code": "8480-6",
        "display": "Systolic Blood Pressure"
       }
      ],
      "text": "Systolic Blood Pressure"
     },
     "dataAbsentReason": {
      "coding": [
       {
        "system": "http://terminology.hl7.org/CodeSystem/data-absent-reason",
        "code": "unknown",
        "display": "Unknown"
       }
      ],
      "text": "Unknown"
     }
    }
   ]
  },
  "search": {
```

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```
    "mode": "match",
    "score": 1
   }
  },
  {
   "id": "17e8502f180-3c7e4770-3630-4654-922a-3f802c2939b1",
   "fullUrl": "[FHIRBaseURL]/Observation/17e8502f180-3c7e4770-3630-4654-922a- 3f802c2939b1",
   "resource": {
    "resourceType": "Observation",
    "id": "17e8502f180-3c7e4770-3630-4654-922a-3f802c2939b1",
    "meta": {
     "versionId": "1",
     "lastUpdated": "2022-01-23T03:37:49.696Z",
     "source": "#iLFSV7OLv0KF8dmQ",
     "profile": [
      "http://hl7.org/fhir/StructureDefinition/vitalsigns",
      "http://hl7.org/fhir/StructureDefinition/heartrate"
     ]
    },
    "status": "final",
    "category": [
     {
      "coding": [
       {
        "system": "http://terminology.hl7.org/CodeSystem/observation-category",
        "code": "vital-signs",
        "display": "vital-signs"
       }
      ]
     }
    ],
    "code": {
     "coding": [
      {
       "system": "http://loinc.org",
       "code": "8867-4",
       "display": "Heart rate"
      }
     ],
     "text": "Heart rate"
    },
    "subject": {
     "reference": "Patient/17e77411359-8837d878-ea1e-45b5-bb89-882fdfb2be4b"
    },
    "encounter": {
```

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```
      "reference": "Encounter/17e77566282-0c9c236b-f0bd-45e0-9c61-80991a376967"
     },
     "effectiveDateTime": "2003-07-10T19:33:18-04:00",
     "issued": "2003-07-10T19:33:18.715-04:00",
     "dataAbsentReason": {
      "coding": [
       {
        "system": "http://terminology.hl7.org/CodeSystem/data-absent-reason",
        "code": "unknown",
        "display": "Unknown"
       }
      ],
      "text": "Unknown"
     }
    },
    "search": {
     "mode": "match",
     "score": 1
    }
   }
  ]
}
```

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Request: Encounter

Search Parameter

`GET [base]/Encounter/[id]` or `GET [base]/Encounter?_id=[id]`
`GET [base]/Encounter?patient={Type/}[id]`
`GET [base]/Encounter?date={gt|lt|ge|le}[date]{&date={gt|lt|ge|le}[date]&...}&patient={Type/}[id]`

e.g.
https:// [FHIRBaseURL]/Encounter?patient=6R2UF8FRAYSyIT10h0mwVeS
https://[FHIRBaseURL]/ Encounter?patient=example1&date=ge2019-01-01T00:00:00Z

Response

- Each resource returned from the first search is expected to conform to the US Core Encounter Profile

Code: 200 (Success)

{

"resourceType": "Bundle",

"id": "2c359c5a-eda3-41a1-9e8d-c8b2b5595317",

"type": "searchset",

"total": 6,

"link": [

{

"relation": "self",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=2a0e5095-cd4f-43b0-9e8c-99a11a815a46&_offset=0"

},

{

"relation": "first",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=2a0e5095-cd4f-43b0-9e8c-99a11a815a46&_offset=0"

},

{

"relation": "last",

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"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=2a0e5095-cd4f-43b0-9e8c-99a11a815a46&_offset=0"

}

],

"entry": [

{

"fullUrl": "https://fhir-demo.digidms.com/fhir/Encounter/QZeGsSqbghZ6NhrSs8Zxfq5d/_history/3340",

"resource": {

"resourceType": "Encounter",

"id": "QZeGsSqbghZ6NhrSs8Zxfq5d",

"meta": {

"versionId": "3340",

"lastUpdated": "2025-11-21T00:00:35.223-05:00"

},

"text": {

"status": "generated",

"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Encounter Date: 2022-11-15</h2>\r\n <h2>Status: InProgress</h2>\r\n "

},

"identifier": [

{

"system": "https://digidms.com",

"value": "1085"

}

],

"status": "in-progress",

"class": {

"system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",

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```
  "code": "AMB"
},
"type": [
 {
  "coding": [
   {
    "system": "http://www.ama-assn.org/go/cpt",
    "code": "99201"
   }
  ],
  "text": "NEW PT/PROBLEM FOCUSED HISTORY EXAM/ST"
 }
],
"subject": {
 "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
 "display": "Rachel Anderrson"
},
"participant": [
 {
  "type": [
   {
    "coding": [
     {
      "system": "http://terminology.hl7.org/CodeSystem/v3-ParticipationType",
      "code": "PPRF"
     }
    ],
```

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```
        "text": "primary performer"
      }
    ],
    "period": {
      "start": "2022-11-15"
    },
    "individual": {
      "reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
      "display": "Best Wayne"
    }
  }
],
"period": {
  "start": "2022-11-15",
  "end": "2022-11-15"
},
"reasonCode": [
  {
    "text": "Progress Note"
  }
],
"location": [
  {
    "location": {
      "reference": "Location/5fRtR5B9QIrfo87ANNc",
      "display": "vng"
    }
```

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```
      }
     ]
    }
   },
   {
    "fullUrl": "https://fhir-demo.digidms.com/fhir/Encounter/QZeGsSqbghZ6NhrSs8Zxg6bY/_history/3329",
    "resource": {
     "resourceType": "Encounter",
     "id": "QZeGsSqbghZ6NhrSs8Zxg6bY",
     "meta": {
      "versionId": "3329",
      "lastUpdated": "2025-11-21T00:00:35.711-05:00"
     },
     "text": {
      "status": "generated",
      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>Encounter Date: 2022-11-22</h2>\r\n
<h2>Status: InProgress</h2>\r\n</div>"
     },
     "identifier": [
      {
       "system": "https://digidms.com",
       "value": "1100"
      }
     ],
     "status": "in-progress",
     "class": {
      "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
```

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```
  "code": "AMB"
},
"type": [
 {
  "coding": [
   {
    "system": "http://www.ama-assn.org/go/cpt",
    "code": "99205"
   }
  ],
  "text": "OV"
 }
],
"subject": {
 "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
 "display": "Rachel Anderrson"
},
"participant": [
 {
  "type": [
   {
    "coding": [
     {
      "system": "http://terminology.hl7.org/CodeSystem/v3-ParticipationType",
      "code": "PPRF"
     }
    ],
```

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```
        "text": "primary performer"
      }
    ],
    "period": {
      "start": "2022-11-22"
    },
    "individual": {
      "reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
      "display": "Best Wayne"
    }
  }
],
"period": {
  "start": "2022-11-22",
  "end": "2022-11-22"
},
"reasonCode": [
  {
    "text": "History and Physical"
  }
],
"location": [
  {
    "location": {
      "reference": "Location/5fRtR5B9QIrfo87ANNc",
      "display": "vng"
    }
```

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```
      }
     ]
    }
   },
   {
    "fullUrl": "https://fhir-demo.digidms.com/fhir/Encounter/QZeGsSqbghZ6NhrSs8Zxg6bZ/_history/3334",
    "resource": {
     "resourceType": "Encounter",
     "id": "QZeGsSqbghZ6NhrSs8Zxg6bZ",
     "meta": {
      "versionId": "3334",
      "lastUpdated": "2025-11-21T00:00:35.467-05:00"
     },
     "text": {
      "status": "generated",
      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>Encounter Date: 2022-11-21</h2>\r\n
<h2>Status: InProgress</h2>\r\n</div>"
     },
     "identifier": [
      {
       "system": "https://digidms.com",
       "value": "1101"
      }
     ],
     "status": "in-progress",
     "class": {
      "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
```

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```
  "code": "AMB"
},
"type": [
 {
  "coding": [
   {
    "system": "http://www.ama-assn.org/go/cpt",
    "code": "99205"
   }
  ],
  "text": "OV"
 }
],
"subject": {
 "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
 "display": "Rachel Anderrson"
},
"participant": [
 {
  "type": [
   {
    "coding": [
     {
      "system": "http://terminology.hl7.org/CodeSystem/v3-ParticipationType",
      "code": "PPRF"
     }
    ],
```

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```
        "text": "primary performer"
      }
    ],
    "period": {
      "start": "2022-11-21"
    },
    "individual": {
      "reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
      "display": "Best Wayne"
    }
  }
],
"period": {
  "start": "2022-11-21",
  "end": "2022-11-21"
},
"reasonCode": [
  {
    "text": "Consult"
  }
],
"location": [
  {
    "location": {
      "reference": "Location/5fRtR5B9QIrfo87ANNc",
      "display": "vng"
    }
```

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```
      }
     ]
    }
   },
   {
    "fullUrl": "https://fhir-demo.digidms.com/fhir/Encounter/QZeGsSqbghZ6NhrSs8Zxg6ba/_history/3326",
    "resource": {
     "resourceType": "Encounter",
     "id": "QZeGsSqbghZ6NhrSs8Zxg6ba",
     "meta": {
      "versionId": "3326",
      "lastUpdated": "2025-11-21T00:00:35.957-05:00"
     },
     "text": {
      "status": "generated",
      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>Encounter Date: 2022-11-23</h2>\r\n
<h2>Status: InProgress</h2>\r\n</div>"
     },
     "identifier": [
      {
       "system": "https://digidms.com",
       "value": "1102"
      }
     ],
     "status": "in-progress",
     "class": {
      "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
```

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```
  "code": "AMB"
},
"type": [
 {
  "coding": [
   {
    "system": "http://snomed.info/sct",
    "code": "87790002"
   }
  ],
  "text": "Discharge Summary"
 }
],
"subject": {
 "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
 "display": "Rachel Anderrson"
},
"participant": [
 {
  "type": [
   {
    "coding": [
     {
      "system": "http://terminology.hl7.org/CodeSystem/v3-ParticipationType",
      "code": "PPRF"
     }
    ],
```

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```
        "text": "primary performer"
      }
    ],
    "period": {
      "start": "2022-11-23"
    },
    "individual": {
      "reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
      "display": "Best Wayne"
    }
  }
],
"period": {
  "start": "2022-11-23",
  "end": "2022-11-23"
},
"reasonCode": [
  {
    "text": "Discharge Summary"
  }
],
"hospitalization": {
  "dischargeDisposition": {
    "coding": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/discharge-disposition",
        "code": "home"
```

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```
        }
       ]
      }
     },
     "location": [
      {
       "location": {
        "reference": "Location/5fRtR5B9QIrfo87ANNc",
        "display": "vng"
       }
      }
     ]
    }
   },
   {
    "fullUrl": "https://fhir-demo.digidms.com/fhir/Encounter/QZeGsSqbghZ6NhrSs8Zxg6bb/_history/3324",
    "resource": {
     "resourceType": "Encounter",
     "id": "QZeGsSqbghZ6NhrSs8Zxg6bb",
     "meta": {
      "versionId": "3324",
      "lastUpdated": "2025-11-21T00:00:36.204-05:00"
     },
     "text": {
      "status": "generated",
      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>Encounter Date: 2022-11-23</h2>\r\n
<h2>Status: InProgress</h2>\r\n</div>"
```

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```
},
"identifier": [
 {
   "system": "https://digidms.com",
   "value": "1103"
 }
],
"status": "in-progress",
"class": {
  "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
  "code": "AMB"
},
"type": [
 {
   "coding": [
     {
       "system": "http://snomed.info/sct",
       "code": "87790002"
     }
   ],
   "text": "Procedure Note"
 }
],
"subject": {
  "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
  "display": "Rachel Anderrson"
},
```

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```
"participant": [
 {
  "type": [
   {
    "coding": [
     {
      "system": "http://terminology.hl7.org/CodeSystem/v3-ParticipationType",
      "code": "PPRF"
     }
    ],
    "text": "primary performer"
   }
  ],
  "period": {
   "start": "2022-11-23"
  },
  "individual": {
   "reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
   "display": "Best Wayne"
  }
 }
],
"period": {
 "start": "2022-11-23",
 "end": "2022-11-23"
},
"reasonCode": [
```

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{
"text": "Procedure Note"
}
],
"location": [
{
"location": {
"reference": "Location/5fRtR5B9QIrfo87ANNZ",
"display": "Office"
}
}
]
}
},
{
"fullUrl": "https://fhir-demo.digidms.com/fhir/Encounter/QZeGsSqbghZ6NhrSs8ZxgNip/_history/1677",
"resource": {
"resourceType": "Encounter",
"id": "QZeGsSqbghZ6NhrSs8ZxgNip",
"meta": {
"versionId": "1677",
"lastUpdated": "2025-11-21T00:00:36.45-05:00"
},
"text": {
"status": "generated",
"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Encounter Date: 2025-11-04</h2>\r\n
<h2>Status: InProgress</h2>\r\n "

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},
"identifier": [
{
"system": "https://digidms.com",
"value": "1217"
}
],
"status": "in-progress",
"class": {
"system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
"code": "AMB"
},
"type": [
{
"coding": [
{
"system": "http://snomed.info/sct",
"code": "87790002"
}
],
"text": "Annual Wellness Visit"
}
],
"subject": {
"reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
"display": "Rachel Anderrson"
},

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```
"participant": [
 {
  "type": [
   {
    "coding": [
     {
      "system": "http://terminology.hl7.org/CodeSystem/v3-ParticipationType",
      "code": "PPRF"
     }
    ],
    "text": "primary performer"
   }
  ],
  "period": {
   "start": "2025-11-04"
  },
  "individual": {
   "reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
   "display": "Best Wayne"
  }
 }
],
"period": {
 "start": "2025-11-04",
 "end": "2025-11-04"
},
"reasonCode": [
```

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```
      {
        "text": "Annual Wellness Visit"
      }
    ],
    "location": [
      {
        "location": {
          "reference": "Location/5fRtR5B9QIrfo87ANNc",
          "display": "vng"
        }
      }
    ]
  }
 ]
}
```

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Request: ServiceRequest

Search Parameter

```
GET [base]/ServiceRequest?patient={Type/}[id]
GET [base]/ServiceRequest/[id] or GET [base]/ServiceRequest?_id=[id]
GET [base]/ServiceRequest?patient={Type/}[id]&category={system|}[code]
GET [base]/ServiceRequest?patient={Type/}[id]&code={system|}[code]{,{system|}[code],...}
```

e.g.
https:// [FHIRBaseURL]/ServiceRequest?patient=1137192
https:// [FHIRBaseURL]/ServiceRequest?patient=6R2UF8FRAYSyIT10h0mwVeS

Response

- Each resource returned from the first search is expected to conform to the US Core ServiceRequest Profile

Code: 200 (Success)

{

"resourceType": "Bundle",

"id": "db9c9a33-4651-4f16-90a7-f98021d56495",

"type": "searchset",

"total": 0,

"link": [

{

"relation": "self",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=b0c299fb-0c3d-4f9c-9abb-a4e20f8d60ca&_offset=0"

},

{

"relation": "first",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=b0c299fb-0c3d-4f9c-9abb-a4e20f8d60ca&_offset=0"

},

{

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"relation": "last",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=b0c299fb-0c3d-4f9c-9abb-a4e20f8d60ca&_offset=0"

}

]

}

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Request: Coverage

Search Parameter
`GET [base]/Coverage?patient={Type/}[id]`
e.g.
https:// [FHIRBaseURL]/ Coverage?patient=6R2UF8FRAYSyIT10h0mwVeS

Response

- Each resource returned from the first search is expected to conform to the US Core Coverage Profile

Code: 200 (Success)


```
{
 "resourceType": "Bundle",
 "id": "22498034-7b8d-48f4-a5dc-e6ef10f3b72c",
 "type": "searchset",
 "total": 2,
 "link": [
  {
   "relation": "self",
   "url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=efea42fd-24bd-4de0-972c-08d2b67df8be&_offset=0"
  },
  {
   "relation": "first",
   "url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=efea42fd-24bd-4de0-972c-08d2b67df8be&_offset=0"
  },
  {
   "relation": "last",
   "url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=efea42fd-24bd-4de0-972c-08d2b67df8be&_offset=0"
  }
```

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```
],
"entry": [
 {
  "fullUrl": "https://fhir-demo.digidms.com/fhir/Coverage/QZeGsScuZ5XrCZFNkeLXQ2In/_history/1973",
  "resource": {
   "resourceType": "Coverage",
   "id": "QZeGsScuZ5XrCZFNkeLXQ2In",
   "meta": {
    "versionId": "1973",
    "lastUpdated": "2025-11-21T00:00:34.495-05:00"
   },
   "text": {
    "status": "generated",
    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>Coverage identifier: System.Collections.Generic.List`1[Hl7.Fhir.Model.Identifier]</h2>\r\n  <h2>Coverage Status: Cancelled</h2>\r\n <h2>type: Hl7.Fhir.Model.CodeableConcept</h2>\r\n  <div>period start: 2025-02-12</div>\r\n  <div>period end: 2027-01-29</div>\r\n</div>"
   },
   "identifier": [
    {
     "type": {
      "coding": [
       {
        "system": "http://terminology.hl7.org/CodeSystem/v2-0203",
        "code": "MB"
       }
      ],
      "text": "Member Number"
```

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```
    },
    "system": "https://digidms.com",
    "value": "25735"
  }
],
"status": "cancelled",
"type": {
  "coding": [
    {
      "system": "http://terminology.hl7.org/CodeSystem/coverage-type",
      "code": "6"
    }
  ]
},
"policyHolder": {
  "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
  "display": "Rachel Anderrson"
},
"subscriber": {
  "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
  "display": "Rachel Anderrson"
},
"subscriberId": "18648",
"beneficiary": {
  "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
  "display": "Rachel Anderrson"
},
```

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```
"relationship": {
 "coding": [
  {
   "system": "http://terminology.hl7.org/CodeSystem/subscriber-relationship",
   "code": "0"
  }
 ],
 "text": "Self"
},
"period": {
 "start": "2025-02-12",
 "end": "2027-01-29"
},
"payor": [
 {
  "reference": "Organization/QZeGsTxKts3rBldgw4Jwuvv0",
  "display": "Drummond Group Inc."
 }
],
"class": [
 {
  "type": {
   "coding": [
    {
     "system": "http://terminology.hl7.org/CodeSystem/coverage-class",
     "code": "group"
    }
```

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```
        ],
        "text": "Group"
       },
       "value": "6",
       "name": "BLUE CROSS/BLUE SHIELD"
      }
     ]
    }
   },
   {
    "fullUrl": "https://fhir-demo.digidms.com/fhir/Coverage/QZeGsScuZ5XrCZFNkeLXQ2Iq/_history/1637",
    "resource": {
     "resourceType": "Coverage",
     "id": "QZeGsScuZ5XrCZFNkeLXQ2Iq",
     "meta": {
      "versionId": "1637",
      "lastUpdated": "2025-11-21T00:00:34.739-05:00"
     },
     "text": {
      "status": "generated",
      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>Coverage identifier: System.Collections.Generic.List`1[Hl7.Fhir.Model.Identifier]</h2>\r\n  <h2>Coverage Status: Active</h2>\r\n <h2>type: Hl7.Fhir.Model.CodeableConcept</h2>\r\n  <div>period start: 2021-11-04</div>\r\n  <div>period end: 2026-11-04</div>\r\n</div>"
     },
     "identifier": [
      {
       "type": {
```

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```
      "coding": [
       {
        "system": "http://terminology.hl7.org/CodeSystem/v2-0203",
        "code": "MB"
       }
      ],
      "text": "Member Number"
    },
    "system": "https://digidms.com",
    "value": "25738"
  }
],
"status": "active",
"type": {
  "coding": [
    {
      "system": "http://terminology.hl7.org/CodeSystem/coverage-type",
      "code": "71"
    }
  ]
},
"policyHolder": {
  "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
  "display": "Rachel Anderrson"
},
"subscriber": {
  "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
```

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"display": "Rachel Anderrson"
},
"subscriberId": "18648",
"beneficiary": {
"reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
"display": "Rachel Anderrson"
},
"relationship": {
"coding": [
{
"system": "http://terminology.hl7.org/CodeSystem/subscriber-relationship",
"code": "0"
}
],
"text": "Self"
},
"period": {
"start": "2021-11-04",
"end": "2026-11-04"
},
"payor": [
{
"reference": "Organization/QZeGsTxKts3rBldgw4Jwuvv0",
"display": "Drummond Group Inc."
}
],
"class": [

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```
      {
        "type": {
          "coding": [
            {
              "system": "http://terminology.hl7.org/CodeSystem/coverage-class",
              "code": "plan"
            }
          ],
          "text": "Plan"
        },
        "value": "71",
        "name": "HMO"
      }
    ]
  }
 }
]
}
```

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Request: Medication Dispense

Search Parameter

```
GET [base]/MedicationDispense?patient={Type/}[id]
```

e.g.

https:// [FHIRBaseURL]/MedicationDispense?patient=6R2UF8FRAYSyIT10h0mwVeS

Response

- Each resource returned from the first search is expected to conform to the US Core MedicationDispense Profile
-

Code: 200 (Success)

{

"resourceType": "Bundle",

"id": "5063ed98-a975-4cba-b106-289f87468353",

"type": "searchset",

"total": 6,

"link": [

{

"relation": "self",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=8c8db11a-92c0-41bc-a40b-b857a4ec2203&_offset=0"

},

{

"relation": "first",

"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=8c8db11a-92c0-41bc-a40b-b857a4ec2203&_offset=0"

},

{

"relation": "last",

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"url": "https://fhir-demo.digidms.com/fhir/_snapshot?id=8c8db11a-92c0-41bc-a40b-b857a4ec2203&_offset=0"

}

],

"entry": [

{

"fullUrl": "https://fhir-demo.digidms.com/fhir/MedicationDispense/9Q5GNHREjTnAld2DeHnVWIX0L5akJC2GjVW/_history/22",

"resource": {

"resourceType": "MedicationDispense",

"id": "9Q5GNHREjTnAld2DeHnVWIX0L5akJC2GjVW",

"meta": {

"versionId": "22",

"lastUpdated": "2025-11-21T00:00:53.342-05:00"

},

"text": {

"status": "generated",

"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Medication Name : acetaminophen 160 mg oral tablet, chewable</h2>\r\n "

},

"status": "unknown",

"medicationCodeableConcept": {

"coding": [

{

"system": "http://www.nlm.nih.gov/research/umls/rxnorm",

"code": "123213",

"display": "acetaminophen 160 mg oral tablet, chewable"

}

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```
 ],
 "text": "acetaminophen 160 mg oral tablet, chewable"
},
"subject": {
 "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
 "display": "Rachel Anderrson"
},
"context": {
 "reference": "Encounter/QZeGsSqbghZ6NhrSs8Zxfq5d",
 "display": "11/15/2022 12:00:00 AM"
},
"performer": [
 {
  "actor": {
   "reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
   "display": "Best Wayne"
  }
 }
],
"authorizingPrescription": [
 {
  "reference": "MedicationRequest/2HSOnEOW94nCmLYvYSWq6bZygblVk1VYTG",
  "display": "acetaminophen 160 mg oral tablet, chewable"
 }
],
"type": {
 "coding": [
```

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```
    {
      "system": "http://terminology.hl7.org/ValueSet/v3-ActPharmacySupplyType",
      "code": "Unknown"
    }
  ],
  "text": "Unknown"
},
"quantity": {
  "value": 20
},
"whenHandedOver": "2022-11-15",
"dosageInstruction": [
  {
    "text": "Take 1 Tablet twice orally",
    "timing": {
      "code": {
        "text": "Take 1 Tablet twice orally"
      }
    },
    "doseAndRate": [
      {
        "doseQuantity": {
          "value": 20
        }
      }
    ]
  }
```

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```
      ]
     }
   },
   {
    "fullUrl": "https://fhir-demo.digidms.com/fhir/MedicationDispense/9Q5GNHREjTnAld2DeHnVWIX0L5akJC2Gjdj/_history/19",
    "resource": {
     "resourceType": "MedicationDispense",
     "id": "9Q5GNHREjTnAld2DeHnVWIX0L5akJC2Gjdj",
     "meta": {
      "versionId": "19",
      "lastUpdated": "2025-11-21T00:00:53.588-05:00"
     },
     "text": {
      "status": "generated",
      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n  <h2>Medication Name : Cozaar 100 mg oral tablet</h2>\r\n</div>"
     },
     "status": "unknown",
     "medicationCodeableConcept": {
      "coding": [
       {
        "system": "http://www.nlm.nih.gov/research/umls/rxnorm",
        "code": "123213",
        "display": "Cozaar 100 mg oral tablet"
       }
      ],
      "text": "Cozaar 100 mg oral tablet"
```

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},
"subject": {
"reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
"display": "Rachel Anderrson"
},
"context": {
"reference": "Encounter/QZeGsSqbghZ6NhrSs8Zxfq5d",
"display": "11/15/2022 12:00:00 AM"
},
"performer": [
{
"actor": {
"reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
"display": "Best Wayne"
}
}
],
"authorizingPrescription": [
{
"reference": "MedicationRequest/2HSOnEOW94nCmLYvYSWq6bZygblVk1VYbT",
"display": "Cozaar 100 mg oral tablet"
}
],
"type": {
"coding": [
{
"system": "http://terminology.hl7.org/ValueSet/v3-ActPharmacySupplyType",

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```
      "code": "Unknown"
    }
   ],
   "text": "Unknown"
  },
  "quantity": {
   "value": 29
  },
  "whenHandedOver": "2022-11-15",
  "dosageInstruction": [
   {
    "text": "Take 1 Tablet once a day orally as needed",
    "timing": {
     "code": {
      "text": "Take 1 Tablet once a day orally as needed"
     }
    },
    "doseAndRate": [
     {
      "doseQuantity": {
       "value": 29
      }
     }
    ]
   }
  ]
}
```

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},
{
"fullUrl": "https://fhir-demo.digidms.com/fhir/MedicationDispense/9Q5GNHREjTnAld2DeHnVWIX0L5akJC2Gjdk/_history/19",
"resource": {
"resourceType": "MedicationDispense",
"id": "9Q5GNHREjTnAld2DeHnVWIX0L5akJC2Gjdk",
"meta": {
"versionId": "19",
"lastUpdated": "2025-11-21T00:00:53.836-05:00"
},
"text": {
"status": "generated",
"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Medication Name : Xanax 0.25 mg oral tablet</h2>\r\n "
},
"status": "unknown",
"medicationCodeableConcept": {
"coding": [
{
"system": "http://www.nlm.nih.gov/research/umls/rxnorm",
"code": "123213",
"display": "Xanax 0.25 mg oral tablet"
}
],
"text": "Xanax 0.25 mg oral tablet"
},
"subject": {

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```
  "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
  "display": "Rachel Anderrson"
},
"context": {
  "reference": "Encounter/QZeGsSqbghZ6NhrSs8Zxg6bb",
  "display": "11/23/2022 12:00:00 AM"
},
"performer": [
 {
   "actor": {
     "reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
     "display": "Best Wayne"
   }
 }
],
"authorizingPrescription": [
 {
   "reference": "MedicationRequest/2HSOnEOW94nCmLYvYSWq6bZygblVk1VYbU",
   "display": "Xanax 0.25 mg oral tablet"
 }
],
"type": {
  "coding": [
   {
     "system": "http://terminology.hl7.org/ValueSet/v3-ActPharmacySupplyType",
     "code": "Unknown"
   }
```

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```
    ],
    "text": "Unknown"
   },
   "quantity": {
    "value": 30
   },
   "whenHandedOver": "2022-11-23",
   "dosageInstruction": [
    {
     "text": "Take 1 Tablet 1 to 2 times a day applied topically",
     "timing": {
      "code": {
       "text": "Take 1 Tablet 1 to 2 times a day applied topically"
      }
     },
     "doseAndRate": [
      {
       "doseQuantity": {
        "value": 30
       }
      }
     ]
    }
   ]
  }
 },
 {
```

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"fullUrl": "https://fhir-demo.digidms.com/fhir/MedicationDispense/AhAwQ4VkBbsKJ0kyhzJ6KoTF3lAcq0PClDeS7M6/_history/16",

"resource": {

"resourceType": "MedicationDispense",

"id": "AhAwQ4VkBbsKJ0kyhzJ6KoTF3lAcq0PClDeS7M6",

"meta": {

"versionId": "16",

"lastUpdated": "2025-11-20T06:42:24.134-05:00"

},

"text": {

"status": "generated",

"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Medication Name : acetaminophen 160 mg oral tablet, chewable</h2>\r\n "

},

"status": "unknown",

"medicationCodeableConcept": {

"coding": [

{

"system": "http://www.nlm.nih.gov/research/umls/rxnorm",

"code": "123213",

"display": "acetaminophen 160 mg oral tablet, chewable"

}

],

"text": "acetaminophen 160 mg oral tablet, chewable"

},

"subject": {

"reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",

"display": "Rachel Anderrson"

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},
"context": {
"reference": "Encounter/QZeGsSqbghZ6NhrSs8Zxfq5d",
"display": "11/15/2022 12:00:00 AM"
},
"performer": [
{
"actor": {
"reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
"display": "Best Wayne"
}
}
],
"type": {
"coding": [
{
"system": "http://terminology.hl7.org/ValueSet/v3-ActPharmacySupplyType",
"code": "Unknown"
}
],
"text": "Unknown"
},
"quantity": {
"value": 20
},
"whenHandedOver": "2022-11-15",
"dosageInstruction": [

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{
"text": "Take 1 Tablet twice orally"
}
]
}
},
{
"fullUrl": "https://fhir-demo.digidms.com/fhir/MedicationDispense/AhAwQ4VkBbsKJ0kyhzJ6KoTF3lAcq0PClDeS7UJ/_history/14",
"resource": {
"resourceType": "MedicationDispense",
"id": "AhAwQ4VkBbsKJ0kyhzJ6KoTF3lAcq0PClDeS7UJ",
"meta": {
"versionId": "14",
"lastUpdated": "2025-11-20T06:42:24.344-05:00"
},
"text": {
"status": "generated",
"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Medication Name : Cozaar 100 mg oral tablet</h2>\r\n "
},
"status": "unknown",
"medicationCodeableConcept": {
"coding": [
{
"system": "http://www.nlm.nih.gov/research/umls/rxnorm",
"code": "123213",
"display": "Cozaar 100 mg oral tablet"

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```
    }
   ],
   "text": "Cozaar 100 mg oral tablet"
  },
  "subject": {
   "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
   "display": "Rachel Anderrson"
  },
  "context": {
   "reference": "Encounter/QZeGsSqbghZ6NhrSs8Zxfq5d",
   "display": "11/15/2022 12:00:00 AM"
  },
  "performer": [
   {
    "actor": {
     "reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
     "display": "Best Wayne"
    }
   }
  ],
  "type": {
   "coding": [
    {
     "system": "http://terminology.hl7.org/ValueSet/v3-ActPharmacySupplyType",
     "code": "Unknown"
    }
   ],
```

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"text": "Unknown"
},
"quantity": {
"value": 29
},
"whenHandedOver": "2022-11-15",
"dosageInstruction": [
{
"text": "Take 1 Tablet once a day orally as needed"
}
]
}
},
{
"fullUrl": "https://fhir-demo.digidms.com/fhir/MedicationDispense/AhAwQ4VkBbsKJ0kyhzJ6KoTF3lAcq0PClDeS7UK/_history/14",
"resource": {
"resourceType": "MedicationDispense",
"id": "AhAwQ4VkBbsKJ0kyhzJ6KoTF3lAcq0PClDeS7UK",
"meta": {
"versionId": "14",
"lastUpdated": "2025-11-20T06:42:24.56-05:00"
},
"text": {
"status": "generated",
"div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">\r\n <h2>Medication Name : Xanax 0.25 mg oral tablet</h2>\r\n "
},

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"status": "unknown",
"medicationCodeableConcept": {
 "coding": [
  {
   "system": "http://www.nlm.nih.gov/research/umls/rxnorm",
   "code": "123213",
   "display": "Xanax 0.25 mg oral tablet"
  }
 ],
 "text": "Xanax 0.25 mg oral tablet"
},
"subject": {
 "reference": "Patient/6R2UF8FRAYSyIT10h0mwVeS",
 "display": "Rachel Anderrson"
},
"context": {
 "reference": "Encounter/QZeGsSqbghZ6NhrSs8Zxg6bb",
 "display": "11/23/2022 12:00:00 AM"
},
"performer": [
 {
  "actor": {
   "reference": "Practitioner/QZeGsU4CJbLoaeY6rbG9zjs3",
   "display": "Best Wayne"
  }
 }
],

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```
      "type": {
       "coding": [
        {
         "system": "http://terminology.hl7.org/ValueSet/v3-ActPharmacySupplyType",
         "code": "Unknown"
        }
       ],
       "text": "Unknown"
      },
      "quantity": {
       "value": 30
      },
      "whenHandedOver": "2022-11-23",
      "dosageInstruction": [
       {
        "text": "Take 1 Tablet 1 to 2 times a day applied topically"
       }
      ]
     }
    }
  ]
}
```

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Request: Related Person

Search Parameter
`GET [base]/RelatedPerson/[id]` or `GET [base]/RelatedPerson?_id=[id]`
e.g.

https://fhir-demo.digidms.com/fhir/Device?patient=6R2UF8FRAYSyIT10h0mwVeS

Response

- Each resource returned from the first search is expected to conform to the US Core RelatedPerson Profile

Code: 200 (Success)


```
{
 "resourceType": "RelatedPerson",
 "id": "af7ec0b2-c101-494d-8c5d-37a00ce9121a",
 "meta": {
  "versionId": "1",
  "lastUpdated": "2025-08-14T00:52:13.788+00:00",
  "profile": [
   "http://hl7.org/fhir/us/core/StructureDefinition/us-core-relatedperson"
  ]
 },
 "active": false,
 "patient": {
  "reference": "Patient/85"
 },
 "relationship": [
  {
   "coding": [
    {
```

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```
      "system": "http://terminology.hl7.org/CodeSystem/v3-RoleCode",
      "code": "ROOM",
      "display": "Roommate"
     }
    ]
  }
],
"name": [
  {
    "use": "official",
    "family": "Jefferson174",
    "given": [
      "Ronald408",
      "MacGyver246"
    ],
    "prefix": [
      "Mr."
    ]
  }
],
"telecom": [
  {
    "system": "phone",
    "value": "555-164-3435",
    "use": "home"
  }
],
```

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```
"address": [
 {
  "extension": [
   {
    "url": "http://hl7.org/fhir/StructureDefinition/geolocation",
    "extension": [
     {
      "url": "latitude",
      "valueDecimal": 42.33734137767395
     },
     {
      "url": "longitude",
      "valueDecimal": -71.0633497363917
     }
    ]
   }
  ],
  "line": [
   "445 Braun Mews"
  ],
  "city": "Boston",
  "state": "MA",
  "postalCode": "02110",
  "country": "US",
  "period": {
   "start": "2019-02-07"
  }
```

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}
]
}

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Error Handling

Error	Description
200 - OK	Everything worked as expected.
401 - Unauthorized	No valid Bearer token provided.
404 - Not Found	The requested resource doesn't exist.
5xx - Server Error	Something went wrong on FHIR Server side.

OperationOutcome explains the error reported

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Profile audience and scope

This profile is intended to be used by developers of apps that need to access user identity information or other FHIR resources by requesting authorization from OAuth 2.0 compliant authorization servers.
The profile defines a method through which an app requests authorization to access a FHIR resource, and then uses that authorization to retrieve the resource. Synchronization of patient context is not addressed; for use cases that require context synchronization (e.g., learningabout when the in-context patient changes within an EHR session) In other words, if the patient chart is changed during the session, the application will not inherently be updated.

Security and Privacy Considerations

App Protection

The app is responsible for protecting itself from potential misbehaving or malicious values passed to its redirect URL (e.g., values injected with executable code, such as SQL) and for protecting authorization codes, access tokens, and refresh tokens from unauthorized access and use. Theapp developer must be aware of potential threats, such as malicious apps running on the same platform, counterfeit authorization servers, and counterfeit resource servers, and implement countermeasures to help protect both the app itself and any sensitive information it may hold. Forbackground, see the OAuth 2.0 Threat Model and Security Considerations.
Specific requirements are:

- Apps SHALL ensure that sensitive information (authentication secrets, authorization codes, tokens) is transmitted ONLY to authenticated servers, over TLS-secured channels.
- Apps SHALL generate an unpredictable `state` parameter for each user session; SHALL include `state` with all authorization requests; and SHALL validate the `state` value for any request sent to its redirect URL.
- An app SHALL NOT execute untrusted user-supplied inputs as code.
- App SHALL NOT forward values passed back to its redirect URL to any other arbitrary or user-provided URL (a practice known as an “open redirector”).
- An app SHALL NOT store bearer tokens in cookies that are transmitted as clear text.
- Apps SHOULD persist tokens and other sensitive data in app-specific storage locations only, and SHOULD NOT persist them insystem-wide-discoverable locations.

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   a) Accepting the Terms. These Terms of Use ("Terms") govern your access to and use of the Certified DIGIDMS FHIR 2015 Edition API, documentation, services, etc. By accessing or using the Certified DIGIDMS FHIR APIs, you agree to be bound by these Terms. “Certified DIGIDMS FHIR API” means the API provided by DIGIDMS FHIR to allow authorized access to query our Client(s) Electronic Health Record system. You represent and warrant that you are at least 18 years of age and that you possess the legal right and ability to agree to these Terms and to use the Certified DIGIDMS FHIR APIs in accordance with these Terms.
   b) Entity Representation. If you are using the Certified DIGIDMS FHIR API on behalf of a legal entity (i.e. a Clinical software services company), you represent that you have proper authority to act on behalf of and bind the entity to these Terms, and by accepting, you accept on behalf of the entity (and all references to “you” in the Terms refer to the entity).
2) REPRESENTATIONS AND RESPONSIBILITIES
   a) Compliance. You agree to be financially responsible for your use of the Certified DIGIDMS FHIR APIs and to comply with your responsibilities and obligations as stated in these Terms. You agree to comply at all times with all applicable laws, rules and regulations relating to the use of the Certified DIGIDMS FHIR EMR APIs. You hereby grant DIGIDMS FHIR the right to monitor and periodically audit in a reasonable manner your use of the Certified DIGIDMS FHIR APIs, your App and other activities related to your obligations under these Terms.
   b) Virus Warranty. You warrant that your Apps will not contain any viruses or other malicious computer instructions, devices, or techniques that can or were designed to threaten, infect, damage, disable, or shut down the DIGIDMS FHIR APIs, any technology, software, solution, equipment or any computer system.
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e) Indemnification. YOU AGREE TO INDEMNIFY, DEFEND AND HOLD HARMLESS DIGIDMS FHIR, ITS OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, INFORMATION PROVIDERS AND SUPPLIERS FROM AND AGAINST ALL CLAIMS, LIABILITIES, LOSSES, EXPENSES, DAMAGES AND COSTS, INCLUDING REASONABLE ATTORNEYS' FEES, RESULTING FROM ANY VIOLATION OF THESE TERMS OR ANY ACTIVITY RELATED TO YOUR USE OF THE CERTIFIED DIGIDMS FHIR APIS OR THE DIGIDMS FHIR WEB SITES.

f) Term and Termination. Either you or DIGIDMS FHIR may terminate your right to use the Certified DIGIDMS FHIR APIs at any time, with or without cause, upon notice. DIGIDMS FHIR also reserves the right to disable your API access in a production environment at any time, with or without cause. DIGIDMS FHIR reserves the right to disable access to the DIGIDMS FHIR APIs if your App poses any security, privacy, or patient safety risks. The provisions concerning Indemnification, Waiver, Release and Limitation of Liability, and General shall survive any termination of these Terms.

g) Governing Law. These Terms are governed by US federal law or the laws of the State of New Jersey.

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4) Application developer affirmations to Certified API Developers regarding the ability of their applications to secure a refresh token, a client secret, or both, must be treated in a good faith manner