MDRhythm Web API (FHIR) Documentation

Prepared on *December 5th, 2022*

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Introduction

This guide is written for third party developers, including patients, who are developing software applications for accessing Protected Health Information (PHI) based on the MDRhythm Web API documentation provided in this document.

MDRhythm Web API (MDRWebAPI) is developed using Restful Web Services and complies with FHIR standards (a set of clinical interoperability resources under the umbrella of the HL7 Standards Organization) to facilitate compatibility with the wide range of development platforms. MDRhythm WebAPI utilizes standard OAuth 2.0 client authentication to ensure that verified development partners are able to use the API in a secure environment to maintain patient privacy.

MDRhythm WebAPI follows Smart-On-FHIR authentication (OAuth2) and authorization as referenced at http://hl7.org/fhir/smart-app-launch/index.html

Product Name and Version

MDRhythm Version 8

Audience

Intended audience for this documentations are the people or developer who are familiar with JSON and HTTPS technology. All requests to MDRhythm WebAPI must be made using HTTPS (TLS 1.2 or above) and POST method to ensure compliance with OAuth 2.0 specifications and data privacy.

MDRhythm WebAPI provides standard HTTP responses for all requests. Following are some of the example of standard HTTP response codes:

- 200 (OK) - Successful HTTP request
- 400 (Bad Request) - Server cannot process the request potentially due to missing required data
- 401 (Unauthorized) - Authentication is required and has failed or has not been provided
- 405 (Method Not Allowed) - A request method is not supported
- 419 (Authentication Timeout) - OAuth token has exceeded its lifetime
- 500 (Internal Server Error) - An error occurred within the MDRhythm WebAPI server

Supported Standards

- US Core Version: US Core 5.0.1 / USCDI v2 (https://www.hl7.org/fhir/us/core/)
- SMART App Launch Version: SMART App Launch 2.0.0 (http://hl7.org/fhir/smart-app-launch/)
- Bulk Data Version: Bulk Data 2.0.0 (http://hl7.org/fhir/uv/bulkdata/)

SMART App Launch

Base URL: https://mdrfhirapi.mdronline.net/

This section of the document describes a set of foundational patterns based on OAuth 2.0 for client applications to authorize, authenticate, and integrate with FHIR based MDRhythm WebAPI systems. This specification is based on SMART App Launch 2.0.0 Standard for Trial Use (STU) as defined by HL7 FHIR.

Server Capabilities and Configuration

SMART configuration is made available from well-known endpoint in order to obtain launch context and request authorization to access FHIR resources. Well-known endpoint is exposed as defined in the SMART App Launch 2.0.0 STU2 standards.

Request:

GET   https://mdrfhirapi.mdronline.net/.well-known/smart-configuration

Response:

```
{

    "issuer": "https://mdrfhirapi.mdronline.net",

    "jwks_uri": "https://mdrfhirapi.mdronline.net/.well-known/openid-configuration/jwks",

    "authorization_endpoint": "https://mdrfhirapi.mdronline.net/connect/authorize",

    "token_endpoint": "https://mdrfhirapi.mdronline.net/connect/token",

    "userinfo_endpoint": "https://mdrfhirapi.mdronline.net/connect/userinfo",

    "end_session_endpoint": "https://mdrfhirapi.mdronline.net/connect/endsession",

    "check_session_iframe": "https://mdrfhirapi.mdronline.net/connect/checksession",

    "revocation_endpoint": "https://mdrfhirapi.mdronline.net/connect/revocation",

    "introspection_endpoint": "https://mdrfhirapi.mdronline.net/connect/introspect",

    "device_authorization_endpoint": "https://mdrfhirapi.mdronline.net/connect/deviceauthorization",

    "frontchannel_logout_supported": true,

    "frontchannel_logout_session_supported": true,

    "backchannel_logout_supported": true,

    "backchannel_logout_session_supported": true,
```

```json
"scopes_supported": [

  "launch/patient",

  "openid",

  "fhirUser",

  "offline_access",

  "patient/Medication.rs",

  "patient/AllergyIntolerance.rs",

  "patient/CarePlan.rs",

  "patient/CareTeam.rs",

  "patient/Condition.rs",

  "patient/Device.rs",

  "patient/DiagnosticReport.rs",

  "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",

    "user/Medication.rs",

    "user/AllergyIntolerance.rs",

    "user/CarePlan.rs",

    "user/CareTeam.rs",

    "user/Condition.rs",

    "user/Device.rs",

    "user/DiagnosticReport.rs",

    "user/DocumentReference.rs",

    "user/Encounter.rs",

    "user/Goal.rs",

    "user/Immunization.rs",

    "user/Location.rs",

    "user/MedicationRequest.rs",

    "user/Observation.rs",

    "user/Organization.rs",

    "user/Patient.rs",

    "user/Practitioner.rs",

    "user/Procedure.rs",

    "user/Provenance.rs",

    "user/PractitionerRole.rs",

    "user/ServiceRequest.rs",

    "offline_access"

  ],

  "claims_supported": [],
```

```json
"grant_types_supported": [

  "authorization_code",

  "client_credentials",

  "urn:ietf:params:oauth:grant-type:device_code"

],

"response_types_supported": [

  "code",

  "id_token",

  "token id_token"

],

"response_modes_supported": [

  "form_post",

  "query",

  "fragment"

],

"token_endpoint_auth_methods_supported": [

  "client_secret_basic",

  "client_secret_post"

],

"id_token_signing_alg_values_supported": [

  "RS256"

],

"subject_types_supported": [

  "pairwise",

  "public"
```

```
    ],

    "code_challenge_methods_supported": [

        "S256"

    ],

    "request_parameter_supported": true,

    "capabilities": [

        "launch-ehr",

        "permission-patient",

        "permission-v2",

        "client-public",

        "client-confidential-symmetric",

        "context-ehr-patient",

        "sso-openid-connect",

        "launch-standalone",

        "context-standalone-patient",

        "permission-offline",

        "authorize-post"

    ]

}
```

Client Authorization

MDRhythm WebAPI supports two patterns for client authorization.

1. SMART App Launch: Used for user-facing application. Below image shows steps and flow as per http://hl7.org/fhir/smart-app-launch/app-launch.html
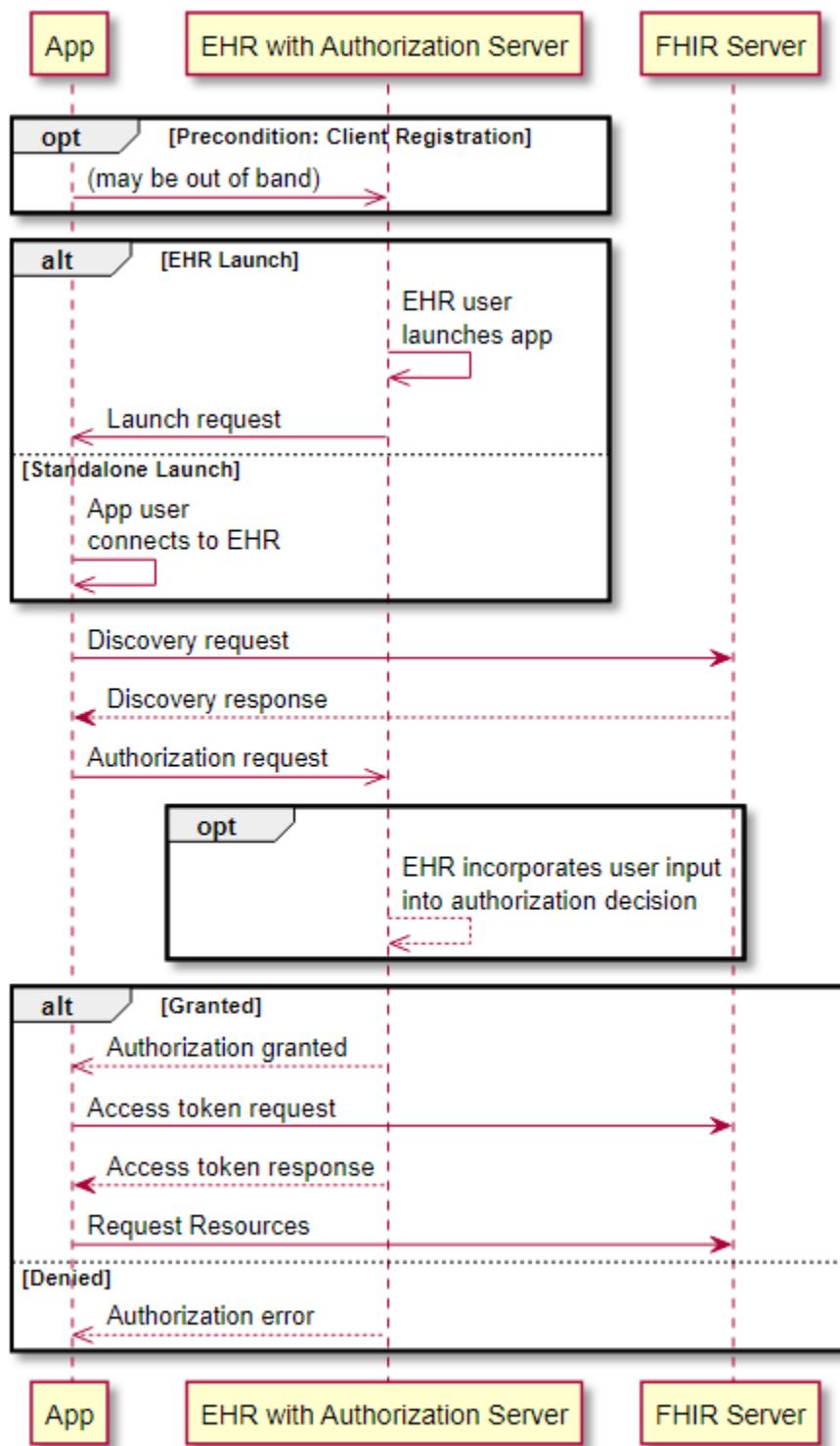
2. SMART Backend Services: Used to authorize headless or automated client application. Below image shows steps and flow as per http://hl7.org/fhir/smart-app-launch/backend-services.html
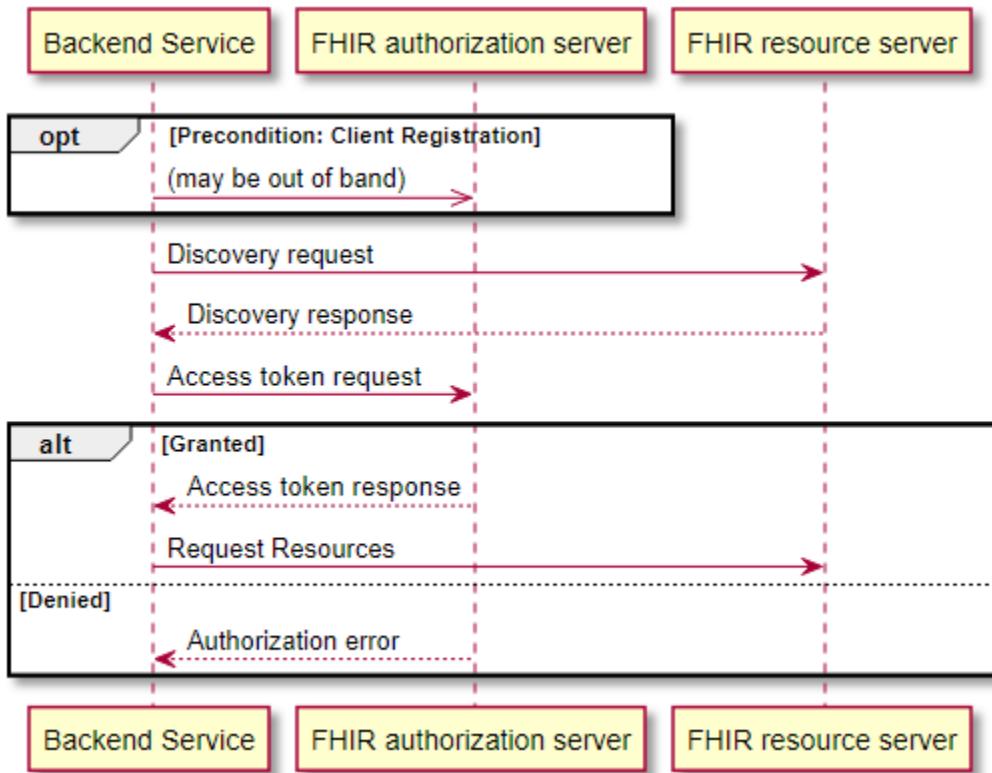
Client Authentication

Supported Client Authentication Patterns:

1. Asymmetric ("private key JWT" authentication – http://hl7.org/fhir/smart-app-launch/client-confidential-asymmetric.html
2. Symmetric ("client secret") authentication – http://hl7.org/fhir/smart-app-launch/client-confidential-symmetric.html
3. Public Clients

Scopes

Scopes are used to define specific access permissions that can be delegated to a client application. List of supported scopes by MDRhythm WebAPI can be obtained from the well-known configuration endpoint.

Authentication and Authorization Requests

Base URL: https://mdrfhirapi.mdronline.net/

Authorization Endpoint

App requesting authorization is required to provide following parameters to the 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/*.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. See SMART on FHIR Access Scopes details.
`state`	required	An opaque value used by the client to maintain state between the request and callback. The authorization server includes this value when redirecting the user-agent back to the client. 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 backwards compatibility. We might consider renaming SMART's `aud` parameter in the future if implementer feedback indicates that alignment would be

Parameters

		valuable. For the current release, servers SHALL support the `aud` parameter and MAY support a `resource` parameter as a synonym for `aud`.
`code_challenge`	required	This parameter is generated by the app and used for the code challenge, as specified by PKCE. For example, when `code_challenge_method` is `'S256'`, this is the S256 hashed version of the `code_verifier` parameter. See considerations-for-pkce-support.
`code_challenge_method`	required	Method used for the `code_challenge` parameter. Example value: `S256`. See considerations-for-pkce-support.

MDRhythm Web API Authorization server will determine whether to grant or deny the access. This decision is communicated to the app. Authorization code is returned if access was granted while error will be returned if denying access. This response will cause the browser to navigate to the app's "redirect_uri" with the following URL parameters:

Parameters

`code`	required	The authorization code generated by the authorization server. The authorization code *must* expire shortly after it is issued to mitigate the risk of leaks.
`state`	required	The exact value received from the client.

Sample Request:

https://[BASE URL]/authorize?

       response_type=code&

       client_id=app-client-id&

       redirect_uri=https%3A%2F%2Fapp%2Fafter-auth&

       launch=xyz123&

       scope=launch+patient%2FObservation.rs+patient%2FPatient.rs+openid+fhirUser&

       state=98wrghuwuogerg97&

       aud=https://ehr/fhir

Sample Response:

https://app/after-auth?

  code=123abc&

  state=98wrghuwuogerg97

Token Endpoint

App will request token by using POST method to the authorization server's token endpoint. Post will require the usage of content-type "application/x-www-form-urlencoded".

Note: For public apps, authentication is not required.

Request

Parameters

`grant_type`	required	Fixed value: `authorization_code`
`code`	required	Code that the app received from the authorization server
`redirect_uri`	required	The same redirect_uri used in the initial authorization request
`code_verifier`	required	This parameter is used to verify against the `code_challenge` parameter previously provided in the authorize request.
`client_id`	conditional	Required for public apps. Omit for confidential apps.

Example: POST https://mdrfhirapi.mdronline.net/connect/token

Response

Parameters

`access_token`	required	The access token issued by the authorization server

Parameters

`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

Example: Response in JSON format.

{

  "id_token":
"eyJhbGciOiJSUzI1NiIsImtpZCI6Ijk1OEJDNDc5QTFCN0QzOTQyOUM3MzI3OTUxNkRBQzJCIiwidHlwIjoiSldUIn0.eyJuYmYiOjE2NzAxNTY5NTcsImV4cCI6MTY3MDE1NzI1NywiaXNzIjoiaHR0cHM6Ly9tZHJmaGFpcGlm
m1kcm9ubGluZS5uZXQiLCJhdWQiOiJ3ZWJfdmlld2VyIiwiaWF0IjoxNjcwMTU2OTU3LCJhdF9oYXNoIjoiM2
5pWENZMzltd0lyZDZ2UTlpSElWdyIsInNfaGFzaCI6ImEwazRqNWZVY0lCcFhqTUUzZlRQRlEiLCJzaWQiOiJFQ
0E2NDNCCOUIxMDc5RDM5QTUzOEQ3QTg3RURFQzhEMyIsInN1YiI6IndlYi92aWV3ZXIiLCJhdXRoX3RpbWU
iOjE2NzAxNTY5NTYsImlkcCI6ImxvY2FsIiwicGF0aWVudCI6IiIsImZoaXJVc2VyIjoiaHR0cHM6Ly9tZHJmaGFpcY
XBpLm1kcm9ubGluZS5uZXQvUGF0aWVudC83MGE4NjdkMy0zMWEzLTRkZmUtYjBmMi01NWVlMzU0Zm
Y0ZjciLCJhbXIiOlsicHdkIl19.X2leS9c72yGX3vJ-4Xzb1WQDY3x168ApRvXo_XOW7zuog_cEsrszkq_BUcAsw9-
xSUEqng5WjcyDa8sSt8CZuNaBgLoe2AgWQUfCZgYlH2c7c9qlWwSviSnIDK-
42WPnsul4eOgx5wivbKgRJZukGUMzhF30VtYxBde37wzliXrsBIDTKvBnYsC_KyFUznHQzHlbZ9JUtbn4OFt7V
UX7tdyyBsvs0QpYoUwQnW4bbI4FAP4E0IC7gvZL27PaLPfbrWU4xT-
7uNptRIPpwpNB5DjMbjNx_0l9lpIdMe8_zR0dyRhZdXussk1s6zE22r1tMRoTzAy6pJjHdpt8lukTuQ",

  "access_token":
"eyJhbGciOiJSUzI1NiIsImtpZCI6Ijk1OEJDNDc5QTFCN0QzOTQyOUM3MzI3OTUxNkRBQzJCIiwidHlwIjoiYXQ
rand0In0.eyJuYmYiOjE2NzAxNTY5NTcsImV4cCI6MTY3MDE2MDU1NywiaXNzIjoiaHR0cHM6Ly9tZHJmaGl
yYXBpLm1kcm9ubGluZS5uZXQiLCJhdWQiOiJGSElSIiwiY2xpZW50X2lkIjoid2ViX3ZpZXdlciIsInN1YiI6IndlYl9
2aWV3ZXIiLCJhdXRoX3RpbWUiOjE2NzAxNTY5NTYsImlkcCI6ImxvY2FsIiwicGF0aWVudCI6IiIsImp0aSI6IkY3
MkFERkQwN0Y5RDgzQTlCOEM4Qzc4ODg4REZDRTAwIiwic2lkIjoiRUNBNjQzQzJjQjlCMTA3OUQzOUE1MzhEEN
0E4N0VERUM4RDMiLCJpYXQiOjE2NzAxNTY5NTcsImZoaXJVc2VyIjoiaHR0cHM6Ly9tZHJmaGFpcYXBpLm1kc
m9ubGluZS5uZXQvUGF0aWVudC83MGE4NjdkMy0zMWEzLTRkZmUtYjBmMi01NWVlMzU0ZmY0ZjciLCJz
Y29wZSI6WyJsYXVuY2gvcGF0aWVudCIsIm9wZW5pZCIsImZoaXJVc2VyIiwicGF0aWVudC9ZWRpY2F0aW

9uLnJzIiwicGF0aWVudC9BbGxlcmd5SW50b2xlcmFuY2UucnMiLCJwYXRpZW50L0NhcmVQbGFuLnJzIiwicGF0aWVudC9DYXJlVGVhbS5ycyIsInBhdGllbnQvQ29uZGl0aW9uLnJzIiwicGF0aWVudC9EZXZpY2UucnMiLCJwYXRpZW50L0RpYWdub3N0aWNSZXBvcnQucnMiLCJwYXRpZW50L0RvY3VtZW50UmVmZXJlbmNlLnJzIiwicGF0aWVudC9FbmNvdW50ZXIucnMiLCJwYXRpZW50L0dvYWwucnMiLCJwYXRpZW50L0ltbXVuaXphdGlvbi5ycyIsInBhdGllbnQvTG9jYXRpb24ucnMiLCJwYXRpZW50L01lZGljYXRpb25SZXF1ZXN0LnJzIiwicGF0aWVudC9PYnNlcnZhdGlvbi5ycyIsInBhdGllbnQvT3JnYW5pemF0aW9uLnJzIiwicGF0aWVudC9QYXRpZW50LnJzIiwicGF0aWVudC9QcmFjdGl0aW9uZXIucnMiLCJwYXRpZW50L1Byb2NlZHVyZS5ycyIsInBhdGllbnQvUHJvdmVuYW5jZS5ycyIsInBhdGllbnQvUHJhY3RpdGlvbmVyUm9sZS5ycyJdLCJhdWIiOlsicHdkIl19.XMoYBeGWALgz92Ni6IxZjtSEc6n-PjY7aXsG_X17F9dDCZ9qeEvTtfIn52CxAG_WADcnhx7-UkJAsxi07hl3V4ObJpQlxUCN3qIHHNmirMYeudsDJNnSapEmdibTAVan9BuiZD9_4PoYzIKpd5D5AimovR8kIJSmjq_TvMw57JfMCLcUX1Q8x0-WRXHiaCehCsBhyvLKYdgBTIIIBal8uqGK47ZM2_RF89f1gSadWFXM9w8H1e-Rg7wNRL7GlSfp54KSyPudq3yfbXToIjCHVKfRHsgE0Tty0mMHN--E5SO04-YU2gqUrvZHGX0-hlo5TXfClnpWU_UAdvW3aN06ag",

  "expires_in": 3600,

  "token_type": "Bearer",

  "refresh_token": "C2E2BF5CAFE7B25067C9C7EA13FDC9EF0FD17154A996BDC786693D797587E199",

  "scope": "launch/patient openid fhirUser offline_access patient/Medication.rs patient/AllergyIntolerance.rs patient/CarePlan.rs patient/CareTeam.rs patient/Condition.rs patient/Device.rs patient/DiagnosticReport.rs 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": "70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "need_patient_banner": false,

  "smart_style_url": "UNK"

}

MDRhythm WebAPI Function/Resource (FHIR API)

All requests to FHIR resources will require a valid token. You must supply a token within the request header.

MDRhythm WebAPI provides a set of methods to retrieve demographics and or clinical information. All calls to these FHIR Resources are made using GET method.

All resources will return JSON formatted response conforming to US Core 5.0.1 profiles.

Allergies and Intolerances

US Core AllergyIntolerance Profile

GET https://[Base URL]/AllergyIntolerance?patient={id}

Example: https://mdrfhirapi.mdronline.net/AllergyIntolerance?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",

  "meta": {

    "lastUpdated": "2022-12-04T12:32:09Z"

  },

  "type": "searchset",

  "total": 4,

  "link": [

    {

      "relation": "self",

      "url": "https://mdrfhirapi.mdronline.net/AllergyIntolerance?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    }

  ],
```

```json
"entry": [

  {

    "search": {

      "mode": "match"

    },

    "fullUrl": "https://mdrfhirapi.mdronline.net/AllergyIntolerancedata/1680-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "resource": {

      "resourceType": "AllergyIntolerance",

      "id": "1680-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "meta": {

        "profile": [

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

        ]

      },

      "text": {

        "status": "generated",

        "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\"><p>Mould</p><p>Start Date:2022-11-23</p></div>"

      },

      "identifier": [

        {

          "value": "1680"

        }

      ],

      "clinicalStatus": {
```

```json
    "coding": [

     {

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

      "code": "active"

     }

    ]

   },

   "verificationStatus": {

    "coding": [

     {

      "system": "http://terminology.hl7.org/CodeSystem/allergyintolerance-verification",

      "code": "confirmed"

     }

    ]

   },

   "type": "allergy",

   "category": [

    "environment"

   ],

   "criticality": "low",

   "code": {

    "coding": [

     {

      "system": "http://snomed.info/sct",

      "code": "84489001",
```

```json
        "display": "Mould"

      }

    ]

  },

  "patient": {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "onsetDateTime": "2022-11-23",

  "recordedDate": "2022-11-23",

  "recorder": {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "asserter": {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "lastOccurrence": "2022-11-23"

  }

},

{

  "search": {

    "mode": "match"

  },

  "fullUrl": "https://mdrfhirapi.mdronline.net/AllergyIntolerancedata/1675-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "resource": {

    "resourceType": "AllergyIntolerance",
```

```
"id": "1675-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

"meta": {

 "profile": [

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

 ]

},

"text": {

 "status": "generated",

 "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\"><p>Fish</p><p>Start Date:1941-10-
14</p></div>"

},

"identifier": [

 {

   "value": "1675"

 }

],

"clinicalStatus": {

 "coding": [

  {

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

    "code": "active"

  }

 ]

},

"verificationStatus": {

 "coding": [
```

```json
      {
        "system": "http://terminology.hl7.org/CodeSystem/allergyintolerance-verification",

        "code": "confirmed"

      }
    ]
  },
  "type": "allergy",
  "category": [
    "food"
  ],
  "criticality": "low",
  "code": {
    "coding": [
      {
        "system": "http://snomed.info/sct",
        "code": "90580008",
        "display": "Fish"
      }
    ]
  },
  "patient": {
    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
  },
  "onsetDateTime": "1941-10-14",
  "recordedDate": "2022-11-23",
```

```json
    "recorder": {

      "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    "asserter": {

      "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    "lastOccurrence": "2022-11-23"

  }

},

{

  "search": {

    "mode": "match"

  },

  "fullUrl": "https://mdrfhirapi.mdronline.net/AllergyIntolerancedata/1678-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "resource": {

    "resourceType": "AllergyIntolerance",

    "id": "1678-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

      "profile": [

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

      ]

    },

    "text": {

      "status": "generated",
```

```json
    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\"><p>House dust mite allergy</p><p>Start Date:1941-10-14</p></div>"
  },
  "identifier": [
   {
     "value": "1678"
   }
  ],
  "clinicalStatus": {
   "coding": [
    {
      "system": "http://terminology.hl7.org/CodeSystem/allergyintolerance-clinical",
      "code": "active"
    }
   ]
  },
  "verificationStatus": {
   "coding": [
    {
      "system": "http://terminology.hl7.org/CodeSystem/allergyintolerance-verification",
      "code": "confirmed"
    }
   ]
  },
  "type": "allergy",
  "category": [
```

```json
    "food"

  ],

  "criticality": "low",

  "code": {

   "coding": [

    {

      "system": "http://snomed.info/sct",

      "code": "195819005",

      "display": "House dust mite allergy"

    }

   ]

  },

  "patient": {

   "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "onsetDateTime": "1941-10-14",

  "recordedDate": "2022-11-23",

  "recorder": {

   "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "asserter": {

   "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "lastOccurrence": "2022-11-23"

}
```

```json
    },
    {
      "search": {
        "mode": "match"
      },
      "fullUrl": "https://mdrfhirapi.mdronline.net/AllergyIntolerancedata/1679-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
      "resource": {
        "resourceType": "AllergyIntolerance",
        "id": "1679-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
        "meta": {
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-allergyintolerance"
          ]
        },
        "text": {
          "status": "generated",
          "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\"><p>Latex</p><p>Start Date:1941-10-14</p></div>"
        },
        "identifier": [
          {
            "value": "1679"
          }
        ],
        "clinicalStatus": {
```

```json
    "coding": [

      {

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

        "code": "inactive"

      }

    ]

  },

  "verificationStatus": {

    "coding": [

      {

        "system": "http://terminology.hl7.org/CodeSystem/allergyintolerance-verification",

        "code": "confirmed"

      }

    ]

  },

  "type": "allergy",

  "category": [

    "medication"

  ],

  "criticality": "low",

  "code": {

    "coding": [

      {

        "system": "http://snomed.info/sct",

        "code": "111088007",
```

```json
      "display": "Latex"
    }
   ]
  },
  "patient": {
    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
  },
  "onsetDateTime": "1941-10-14",
  "recordedDate": "2022-11-23",
  "recorder": {
    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
  },
  "asserter": {
    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
  },
  "lastOccurrence": "2022-11-23",
  "note": [
   {
     "text": "skin rash"
   }
  ],
  "reaction": [
   {
     "manifestation": [
      {
```

```json
        "coding": [

          {

            "system": "http://snomed.info/sct",

            "code": "271807003",

            "display": "skin rash"

          }

        ],

        "text": "skin rash"

      }

    ]

  }

 }

]

}
```

Assessment and Plan of Treatment

US Core CarePlan Profile

GET https://[Base URL]/CarePlan?category=assess-plan&patient={id}

Example: https://mdrfhirapi.mdronline.net/CarePlan?category=assess-plan&patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```json
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",
```

```json
  "meta": {

    "lastUpdated": "2022-12-04T12:32:09Z"

  },

  "type": "searchset",

  "total": 1,

  "link": [

    {

      "relation": [

        "self",

        "next"

      ],

      "url": [

        "https://mdrfhirapi.mdronline.net/CarePlan?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

        "https://mdrfhirapi.mdronline.net/CarePlan?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      ]

    }

  ],

  "entry": [

    {

      "fullUrl": "https://mdrfhirapi.mdronline.net/CarePlan/11470-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "resource": {

        "resourceType": "CarePlan",

        "id": "11470-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

        "meta": {

          "profile": [
```

```json
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-careplan"

    ]

  },

  "text": {

    "status": "generated",

    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Care Plan Details</div>"

  },

  "status": "completed",

  "intent": "order",

  "category": [

    {

      "coding": [

        {

          "system": "http://hl7.org/fhir/us/core/CodeSystem/careplan-category",

          "code": "assess-plan"

        },

        {

          "system": "http://snomed.info/sct",

          "code": "53950000",

          "display": "Respiratory Therapy"

        }

      ],

      "text": "Respiratory Therapy"

    }

  ],
```

```json
  "subject": {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "encounter": {

    "reference": "Encounter/7092-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "period": {

    "start": "2021-03-24"

  },

  "careTeam": [

   {

     "reference": "CareTeam/14"

   }

  ],

  "activity": [

   {

     "detail": {

       "code": {

         "coding": [

          {

            "system": "http://snomed.info/sct",

            "code": "Recommendation to avoid exercise",

            "display": "304510005"

          }

         ],
```

```
      "text": "304510005"

    },

    "status": "completed"

   }

  },

  {

   "detail": {

    "code": {

     "coding": [

      {

       "system": "http://snomed.info/sct",

       "code": "Deep breathing and coughing exercises",

       "display": "371605008"

      }

     ],

     "text": "371605008"

    },

    "status": "completed"

   }

  }

 ]

  }

 }

]

}
```

Care Team Members

US Core CareTeam Profile

GET https://[Base URL]/CareTeam?patient={id}&status=proposed

Example: https://mdrfhirapi.mdronline.net/CareTeam?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7&status=proposed

Response: 200 (Success)

```
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",

  "meta": {

    "lastUpdated": "2022-12-04T12:32:09Z",

    "type": "searchset",

    "total": 0,

    "link": [

      {

        "relation": "self",

        "url": "https://mdrfhirapi.mdronline.net/Encounter?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

    ]

  },

  "entry": {

    "fullUrl": "urn:uuid:2866af9c-137d-4458-a8a9-eeeec0ce5583",

    "resource": {

      "OperationOutcome": {

        "id": "warning",

        "text": {
```

```
    "status": "generated",

    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">There is no matching Data found for
patient for given search criteria</div>"

    },

    "issue": {

      "severity": "warning",

      "code": "not-found",

      "details": {

        "text": "There is no matching Data found for patient for given search criteria"

      }

    }

  }

},

  "search": {

    "mode": "outcome"

  }

 }

}
```

Clinical Notes

US Core DocumentReference Profile & US Core DiagnosticReport Profile for Report and Note Exchange

GET https://[Base URL]/DocumentReference?patient={id}

Example: https://mdrfhirapi.mdronline.net/DocumentReference?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",
```

```json
  "meta": {

    "lastUpdated": "2022-12-04T12:32:11Z"

  },

  "type": "searchset",

  "total": 13,

  "link": [

   {

     "relation": "self",

     "url": "https://mdrfhirapi.mdronline.net/DocumentReference?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

   }

  ],

  "entry": [

   {

     "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7101-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

     "resource": {

      "resourceType": "DocumentReference",

      "id": "7101-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "meta": {

       "versionId": "1",

       "lastUpdated": "2022-12-04T12:32:11Z",

       "source": "#E1VolYkq84D3M96u",

       "profile": [

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

       ]
```

```
    },

    "identifier": [

      {

        "value": "7101-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

    ],

    "status": "superseded",

    "type": {

      "coding": [

        {

          "system": "http://loinc.org",

          "code": "11506-3",

          "display": "Progress note"

        }

      ],

      "text": "Progress note"

    },

    "category": [

      {

        "coding": [

          {

            "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",

            "code": "clinical-note",

            "display": "Clinical Note"

          }
```

```json
      ]

    }

  ],

  "subject": {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "date": "2022-12-03T12:00:00Z",

  "author": [

    {

      "reference": "Practitioner/14",

      "display": "Dr. Max Burger"

    }

  ],

  "custodian": {

    "reference": "Organization/1",

    "display": "TechSoft, Inc. DBA Medical Systems"

  },

  "content": [

    {

      "attachment": {

        "contentType": "text/plain",

        "data":
```
"U3ViamVjdGl2ZSAgICAKQWxsZXJnaWVzIApFZ2dzLCBGaXNoLCBIb3VzZSBkdXN0IG1pdGUgYWxsZXJneSwggTW91bGQsIFRyZWUgbnV0cyAod2FsbnV0cywgcGVjYW5zLCBwaXN0YWNoaW9zLCBmaWxiZXJ0cywgY2FzaGV3cywgYWxtb25kcywgZXRjLikKT2JqZWN0aXZlOiAgICApIApQcm9jZWR1cmVzICAKUVJTIGR1ciB7RUtUHIGxlYWR9IEV4YW1wbGUgIC0gOiBPcmRlcmVkIAoKQXNzZXNzbWVudCAgICAKUHJvY2VkdXJlIENvZGVzICAKClBsYW4gICAgCg=="

```json
      },

      "format": {

        "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",

        "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

        "display": "mimeType Sufficient"

      }

    }

    ],

    "context": {

      "encounter": [

        {

          "reference": "Encounter/7101-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

        }

      ],

      "period": {

        "start": "2022-12-03T12:00:00Z",

        "end": "2022-12-03T12:00:00Z"

      }

    }

  }

},

{

  "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7079-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "resource": {

    "resourceType": "DocumentReference",
```

```
"id": "7079-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

"meta": {

  "versionId": "1",

  "lastUpdated": "2022-12-04T12:32:11Z",

  "source": "#E1VolYkq84D3M96u",

  "profile": [

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

  ]

},

"identifier": [

  {

    "value": "7079-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  }

],

"status": "superseded",

"type": {

  "coding": [

    {

      "system": "http://loinc.org",

      "code": "11506-3",

      "display": "Progress note"

    }

  ],

  "text": "Progress note"

},
```

```json
  "category": [

   {

     "coding": [

      {

        "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",

        "code": "clinical-note",

        "display": "Clinical Note"

      }

    ]

   }

  ],

  "subject": {

   "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "date": "2022-10-05T12:00:00Z",

  "author": [

   {

     "reference": "Practitioner/14",

     "display": "Dr. Max Burger"

   }

  ],

  "custodian": {

   "reference": "Organization/1",

   "display": "TechSoft, Inc. DBA Medical Systems"

  },
```

```json
    "content": [

     {

       "attachment": {

         "contentType": "text/plain",

         "data":
"U3ViamVjdGl2ZSAgICAKQWxsZXJnaWVzICAgAgCk9iamVjdGl2ZTogICAKVml0YWxzIApUZW1wZXJhdHVyZTog
gMzcuNzkgwrBDLCAgICBQdWxzZS1PWDogMCA7IDc3IApBc3Nlc3NtZW50ICAgIApEaWFnbm9zaXMgQ29k
ZXMgCjg4ODA1MDA5IENocm9uaWMgQ29uZ2VzdGl2ZSBIZWFydCBGYWlsdXJlICAgICAgICAgICAgICA
gICAgICAgICAgOiAKCgpQcm9jZWR1cmUgQ29kZXMgCjE4NTM0NzAwMSBFbmNvdW50ZXIgZm9yIHB
yb2JsZW0KClBsYW4gICAgCg=="

       },

       "format": {

         "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",

         "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

         "display": "mimeType Sufficient"

       }

     }

    ],

    "context": {

     "encounter": [

      {

        "reference": "Encounter/7079-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

     ],

     "period": {

      "start": "2022-10-05T12:00:00Z",

      "end": "2022-10-05T12:00:00Z"
```

```
      }

    }

   }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7078-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

    "resource": {

     "resourceType": "DocumentReference",

     "id": "7078-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

     "meta": {

      "versionId": "1",

      "lastUpdated": "2022-12-04T12:32:11Z",

      "source": "#E1VolYkq84D3M96u",

      "profile": [

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

      ]

     },

     "identifier": [

      {

        "value": "7078-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

     ],

     "status": "superseded",

     "type": {

      "coding": [
```

```json
    {
      "system": "http://loinc.org",
      "code": "11506-3",
      "display": "Progress note"
    }
  ],
  "text": "Progress note"
},
"category": [
  {
    "coding": [
     {
       "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",
       "code": "clinical-note",
       "display": "Clinical Note"
     }
    ]
  }
],
"subject": {
  "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
},
"date": "2022-09-10T12:00:00Z",
"author": [
  {
```

```json
      "reference": "Practitioner/14",

      "display": "Dr. Max Burger"

    }

   ],

   "custodian": {

    "reference": "Organization/1",

    "display": "TechSoft, Inc. DBA Medical Systems"

   },

   "content": [

    {

     "attachment": {

      "contentType": "text/plain",

      "data":
"U3ViamVjdGl2ZSAgIApBbGxlcmdpZXMgIApPYmplY3RpdmU6ICAKVml0YWxzIApCUDogMTI5Lzg1IG1tSGc
gTCBBcm0gU2l0dGluZwpBc3Nlc3NtZW50ICAgCkRpYWdub3NpcyBDb2RlcyAKODg4MDUwMDkgQ2hyb25
pYyBDb25nZXN0aXZlIEhlYXJ0IEZhWx1cmUgICAgICAgICAgICAgICAgICAgICAgICA6IAoKClByb2Nl
ZHVyZSBDb2RlcyAKMTg1MzQ3MDAxIEVuY291bnRlciBmb3IgcHJvYmxlbQoKUGxhbiAgIAo="
     },

     "format": {

      "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",

      "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

      "display": "mimeType Sufficient"

     }

    }

   ],

   "context": {

    "encounter": [
```

```
      {

        "reference": "Encounter/7078-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

    ],

    "period": {

      "start": "2022-09-10T12:00:00Z",

      "end": "2022-09-10T12:00:00Z"

    }

   }

  }

 },

 {

   "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7076-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

   "resource": {

    "resourceType": "DocumentReference",

    "id": "7076-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

     "versionId": "1",

     "lastUpdated": "2022-12-04T12:32:11Z",

     "source": "#E1VolYkq84D3M96u",

     "profile": [

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

     ]

    },

    "identifier": [
```

```json
  {
    "value": "7076-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  }

],

"status": "superseded",

"type": {

 "coding": [

  {

    "system": "http://loinc.org",

    "code": "11506-3",

    "display": "Progress note"

  }

 ],

 "text": "Progress note"

},

"category": [

 {

  "coding": [

   {

    "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",

    "code": "clinical-note",

    "display": "Clinical Note"

   }

  ]

 }
```

```
    ],

    "subject": {

      "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    "date": "2022-06-11T12:00:00Z",

    "author": [

      {

        "reference": "Practitioner/14",

        "display": "Dr. Max Burger"

      }

    ],

    "custodian": {

      "reference": "Organization/1",

      "display": "TechSoft, Inc. DBA Medical Systems"

    },

    "content": [

      {

        "attachment": {

          "contentType": "text/plain",

          "data":
"U3ViamVjdGl2ZSAgICAKQWxsZXJnaWVzICAgCk9iamVjdGl2ZTogIApWaXRhbHMgClRlbXBlcmF0dXJlOiAz
Ny43OSDCsEMKQXNzZXNzbWVudCAgICAKRGlhZ25vc2lzIENvZGVzIAoxOTU2NjIwMDkgQWN1dGUgVmlyy
YWwgUGhhcmluZ2l0aXMgICAgICAgICAgICAgICAgICAgICAgIDogCgoKUHJvY2VkdXJlI
ENvZGVzIAoxNjI2NzMwMDAgR2VuZXJhbCBleGFtaW5hdGlvbiBvZiBwYXRpZW50CgpQbGFuICAgIAo="

        },

        "format": {

          "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",
```

```json
      "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

      "display": "mimeType Sufficient"

     }

    }

   ],

   "context": {

    "encounter": [

     {

      "reference": "Encounter/7076-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

     }

    ],

    "period": {

     "start": "2022-06-11T12:00:00Z",

     "end": "2022-06-11T12:00:00Z"

    }

   }

  }

 },

 {

   "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7083-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "resource": {

   "resourceType": "DocumentReference",

   "id": "7083-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

   "meta": {

    "versionId": "1",
```

```json
    "lastUpdated": "2022-12-04T12:32:11Z",

    "source": "#E1VolYkq84D3M96u",

    "profile": [

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

    ]

  },

  "identifier": [

    {

      "value": "7083-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    }

  ],

  "status": "superseded",

  "type": {

    "coding": [

      {

        "system": "http://loinc.org",

        "code": "11506-3",

        "display": "Progress note"

      }

    ],

    "text": "Progress note"

  },

  "category": [

    {

      "coding": [
```

```
    {

      "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",

      "code": "clinical-note",

      "display": "Clinical Note"

    }

  ]

 }

],

"subject": {

  "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

"date": "2022-06-01T12:00:00Z",

"author": [

 {

    "reference": "Practitioner/14",

    "display": "Dr. Max Burger"

 }

],

"custodian": {

  "reference": "Organization/1",

  "display": "TechSoft, Inc. DBA Medical Systems"

},

"content": [

 {

    "attachment": {
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      "contentType": "text/plain",

      "data":
"U3ViamVjdGl2ZSAgIApBbGxlcmdpZXMgIApBc3Nlc3NtZW50ICAgCkRpYWdub3NpcyBDb2RlcyAKMTk1Nj
YyMDA5IEFjdXRlIFZpcmFsIFBoYXJ5bmdpdGlzICAgICAgICAgICAgICAgICAgICAgICAgICA6I
ApQcm9jZWR1cmUgQ29kZXMgCjE2MjY3MzAwMCBHZW5lcmFsIGV4YW1pbmF0aW9uIG9mIHBhdGllbn
QKClBsYW4gICAgCgA"
```
      },

      "format": {

        "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",

        "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

        "display": "mimeType Sufficient"

      }

     }

    ],

    "context": {

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        "reference": "Encounter/7083-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

     ],

     "period": {

      "start": "2022-06-01T12:00:00Z",

      "end": "2022-06-01T12:00:00Z"

     }

    }

   }

  },

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{

  "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7082-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

  "resource": {

   "resourceType": "DocumentReference",

   "id": "7082-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

   "meta": {

    "versionId": "1",

    "lastUpdated": "2022-12-04T12:32:11Z",

    "source": "#E1VolYkq84D3M96u",

    "profile": [

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

    ]

   },

   "identifier": [

    {

     "value": "7082-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    }

   ],

   "status": "superseded",

   "type": {

    "coding": [

     {

      "system": "http://loinc.org",

      "code": "11506-3",

      "display": "Progress note"
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```json
    }
   ],
   "text": "Progress note"
  },
  "category": [
   {
    "coding": [
     {
      "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",
      "code": "clinical-note",
      "display": "Clinical Note"
     }
    ]
   }
  ],
  "subject": {
   "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
  },
  "date": "2022-05-17T12:00:00Z",
  "author": [
   {
    "reference": "Practitioner/14",
    "display": "Dr. Max Burger"
   }
  ],
```

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    "custodian": {

     "reference": "Organization/1",

     "display": "TechSoft, Inc. DBA Medical Systems"

    },

    "content": [

     {

      "attachment": {

       "contentType": "text/plain",

       "data":
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"U3ViamVjdGl2ZSAgICAgCkFsbGVyZ2llcyAgICAKT2JqZWN0aXZlOiAgClZpdGFscyAKUmVzcGlyYXRpb246ID
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JlcyAgIApFYXIgV2F4IFJlbW92YWwgKRWFyIFNpZGU6IExlZnQgQgClR5cGUgb2Ygc29sdXRpb24gdXNlZDogd2Fy
bSB3YXRlciAKQmxlZWRpbmc6IE5vIApEaXp6aW5lc3M6IE5vIApAKRWxlY3Ryb2NhcmRpb2dyYW0KClJhdGU
6IE5vcm1hbCAoNjAtOTkgYnBtKSAKUmh5dGhtOiBOb3JtYWwgU2ludXMgUmh5dGhtIApBeGlzOiBOb3JtY
WwgKDAgdG8gLTMwIGRlZ3JlZXMpIApQIFdhdmU6IE5vIGF0cmlhbCBlbmxhcmdlWVudCAKUFIgSW50ZXJ
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oeXBlcnRyb3BoeSAKUIBYYXZlIE15b2NhcmRpYWwgSW5mYXJjdGlvbjogTm8gcGF0aG9sb2dpYyBRIHdhdh
mVzIApTVCBTZWdtZW50ICYgVCBXYXZlOiBObyBTVC1UIHdhdmUgY2hhbmdlcyAKVUQgSW50ZXJ2YWw6I
E5vcm1hbCBRVCBJbnRlcnZhbCAKVSBXYXZlOiBOb3JtYWwgVSB3YXZlIG1vcnBob2xvZ3kgIApOZWJ1bGl6ZX
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TkkKClsgYW4gICAgIAo="
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      },

      "format": {

       "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",

       "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

       "display": "mimeType Sufficient"

      }
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        }

      ],

      "context": {

        "encounter": [

          {

            "reference": "Encounter/7082-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

          }

        ],

        "period": {

          "start": "2022-05-17T12:00:00Z",

          "end": "2022-05-17T12:00:00Z"

        }

      }

    }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7080-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

    "resource": {

      "resourceType": "DocumentReference",

      "id": "7080-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "meta": {

        "versionId": "1",

        "lastUpdated": "2022-12-04T12:32:11Z",

        "source": "#E1VolYkq84D3M96u",

        "profile": [
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```json
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-documentreference"

   ]

 },

 "identifier": [

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    "value": "7080-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  }

 ],

 "status": "superseded",

 "type": {

  "coding": [

   {

     "system": "http://loinc.org",

     "code": "11506-3",

     "display": "Progress note"

   }

  ],

  "text": "Progress note"

 },

 "category": [

  {

    "coding": [

    {

      "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",

      "code": "clinical-note",
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```json
      "display": "Clinical Note"

      }

    ]

   }

  ],

  "subject": {

   "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "date": "2022-04-07T12:00:00Z",

  "author": [

   {

     "reference": "Practitioner/14",

     "display": "Dr. Max Burger"

   }

  ],

  "custodian": {

   "reference": "Organization/1",

   "display": "TechSoft, Inc. DBA Medical Systems"

  },

  "content": [

   {

     "attachment": {

      "contentType": "text/plain",

      "data":
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"U3ViamVjdGl2ZSAgIApBbGxlcmdpZXMgIApBc3Nlc3NtZW50ICAgIClByb2NlZHVyZSBDb2RlcyAgCjQxMDYy
MDAwOSBXZWxsIGNoaWxkIHZpc2l0CgpQbGFuICAgICAgCg=="

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        },

        "format": {

          "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",

          "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

          "display": "mimeType Sufficient"

        }

      }

    ],

    "context": {

      "encounter": [

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          "reference": "Encounter/7080-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

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        "end": "2022-04-07T12:00:00Z"

      }

    }

  }

},

{

  "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7077-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

  "resource": {

    "resourceType": "DocumentReference",
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  "id": "7077-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "meta": {

    "versionId": "1",

    "lastUpdated": "2022-12-04T12:32:11Z",

    "source": "#E1VolYkq84D3M96u",

    "profile": [

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

    ]

  },

  "identifier": [

    {

      "value": "7077-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    }

  ],

  "status": "superseded",

  "type": {

    "coding": [

      {

        "system": "http://loinc.org",

        "code": "11506-3",

        "display": "Progress note"

      }

    ],

    "text": "Progress note"

  },
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```json
    "category": [

      {

        "coding": [

          {

            "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",

            "code": "clinical-note",

            "display": "Clinical Note"

          }

        ]

      }

    ],

    "subject": {

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    },

    "date": "2022-03-29T12:00:00Z",

    "author": [

      {

        "reference": "Practitioner/14",

        "display": "Dr. Max Burger"

      }

    ],

    "custodian": {

      "reference": "Organization/1",

      "display": "TechSoft, Inc. DBA Medical Systems"

    },
```

```json
    "content": [

     {

      "attachment": {

       "contentType": "text/plain",

       "data":
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6IApQcm9jZWR1cmUgQ29kZXMgCjE4NTM0NzAwMSBFbmNvdW50ZXIgZm9yIHByb2JsZW0KIBsYW4gIA
o="

      },

      "format": {

       "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",

       "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

       "display": "mimeType Sufficient"

      }

     }

    ],

    "context": {

     "encounter": [

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       "reference": "Encounter/7077-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

     ],

     "period": {

      "start": "2022-03-29T12:00:00Z",

      "end": "2022-03-29T12:00:00Z"

     }
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      }

    }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7081-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

    "resource": {

     "resourceType": "DocumentReference",

     "id": "7081-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

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      "lastUpdated": "2022-12-04T12:32:11Z",

      "source": "#E1VolYkq84D3M96u",

      "profile": [

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

      ]

     },

     "identifier": [

      {

        "value": "7081-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

     ],

     "status": "superseded",

     "type": {

      "coding": [

        {
```

```
    "system": "http://loinc.org",

    "code": "11506-3",

    "display": "Progress note"

   }

  ],

  "text": "Progress note"

},

"category": [

 {

  "coding": [

   {

    "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",

    "code": "clinical-note",

    "display": "Clinical Note"

   }

  ]

 }

],

"subject": {

 "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

"date": "2022-03-21T12:00:00Z",

"author": [

 {

  "reference": "Practitioner/14",
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```
      "display": "Dr. Max Burger"

    }

  ],

  "custodian": {

    "reference": "Organization/1",

    "display": "TechSoft, Inc. DBA Medical Systems"

  },

  "content": [

   {

     "attachment": {

       "contentType": "text/plain",

       "data":
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"U3ViamVjdGl2ZSAgICAKQWxsZXJnaWVzICAgCkFzc2Vzc21lbnQgICAgCkRpYWdub3NpcyBDb2RlcyAgCjE5NTY2MjAwOSBBY3V0ZSBQaWxhbCBQaGFyeW5naXRpcyAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgOiAKUHJvY2VkdXJlIENvZGVzICANDEwNjIwMDA5IFdlbGwgY2hpbGQgdmlzaXQKCiBsYW4gICAgCg=="
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     },

     "format": {

       "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",

       "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

       "display": "mimeType Sufficient"

     }

   }

  ],

  "context": {

   "encounter": [

    {
```

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       "reference": "Encounter/7081-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

    ],

    "period": {

      "start": "2022-03-21T12:00:00Z",

      "end": "2022-03-21T12:00:00Z"

    }

   }

  }

 },

 {

   "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7075-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

   "resource": {

    "resourceType": "DocumentReference",

    "id": "7075-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

     "versionId": "1",

     "lastUpdated": "2022-12-04T12:32:11Z",

     "source": "#E1VolYkq84D3M96u",

     "profile": [

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

     ]

    },

    "identifier": [

     {
```

```json
      "value": "7075-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    }

  ],

  "status": "superseded",

  "type": {

   "coding": [

    {

      "system": "http://loinc.org",

      "code": "11506-3",

      "display": "Progress note"

    }

   ],

   "text": "Progress note"

  },

  "category": [

   {

     "coding": [

      {

        "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",

        "code": "clinical-note",

        "display": "Clinical Note"

      }

     ]

   }

  ],
```

```json
      "subject": {

        "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      },

      "date": "2022-03-09T12:00:00Z",

      "author": [

        {

          "reference": "Practitioner/14",

          "display": "Dr. Max Burger"

        }

      ],

      "custodian": {

        "reference": "Organization/1",

        "display": "TechSoft, Inc. DBA Medical Systems"

      },

      "content": [

        {

          "attachment": {

            "contentType": "text/plain",

            "data":
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"U3ViamVjdGl2ZSAgICAKQWxsZXJnaWVzICAgClByb2NlZHVyZXMgIApEWEEgRmVtdXItTCBBck1hc3MgQk1EIEV4YW1wbGUKMC42MzEKCkFzc2Vzc21lbnQgICAgClByb2NlZHVyZSBDb2RlcyAKNDEwNjIwMDA5IFdlbGGwgY2hpbGQgdmlzaXQKIAoKUGxhbiAgICAK"
```json
          },

          "format": {

            "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",

            "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

            "display": "mimeType Sufficient"
```

```json
        }

      }

    ],

    "context": {

     "encounter": [

      {

        "reference": "Encounter/7075-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

     ],

     "period": {

      "start": "2022-03-09T12:00:00Z",

      "end": "2022-03-09T12:00:00Z"

     }

    }

   }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7074-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

   "resource": {

    "resourceType": "DocumentReference",

    "id": "7074-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

     "versionId": "1",

     "lastUpdated": "2022-12-04T12:32:11Z",

     "source": "#E1VolYkq84D3M96u",
```

```json
    "profile": [

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

     ]

    },

    "identifier": [

     {

       "value": "7074-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

     }

    ],

    "status": "superseded",

    "type": {

     "coding": [

      {

        "system": "http://loinc.org",

        "code": "11506-3",

        "display": "Progress note"

      }

     ],

     "text": "Progress note"

    },

    "category": [

     {

      "coding": [

       {

         "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",
```

```
      "code": "clinical-note",

      "display": "Clinical Note"

     }

   ]

  }

 ],

 "subject": {

  "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

 },

 "date": "2022-01-26T12:00:00Z",

 "author": [

  {

    "reference": "Practitioner/14",

    "display": "Dr. Max Burger"

  }

 ],

 "custodian": {

  "reference": "Organization/1",

  "display": "TechSoft, Inc. DBA Medical Systems"

 },

 "content": [

  {

    "attachment": {

     "contentType": "text/plain",

     "data":
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"U3ViamVjdGl2ZSAgICAgICAgCkFsbGVyZ2llcyAgICAgICAgCAKUHJvY2VkdXJlcyAgICAgICAgClB1bHNlIGludGVuc2l0eSBQQ

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hpbGQgdmlzaXQKKKUGxhbiAgICAgICAgCg==

    },

    "format": {

      "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",

      "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

      "display": "mimeType Sufficient"

    }

    }

    ],

    "context": {

    "encounter": [

      {

        "reference": "Encounter/7074-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

    ],

    "period": {

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      "end": "2022-01-26T12:00:00Z"

    }

    }

    }

    },

```json
{

  "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7092-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "resource": {

   "resourceType": "DocumentReference",

   "id": "7092-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

   "meta": {

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    "lastUpdated": "2022-12-04T12:32:11Z",

    "source": "#E1VolYkq84D3M96u",

    "profile": [

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

    ]

   },

   "identifier": [

    {

      "value": "7092-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    }

   ],

   "status": "superseded",

   "type": {

    "coding": [

     {

       "system": "http://loinc.org",

       "code": "11506-3",

       "display": "Progress note"
```

```json
      }
    ],
    "text": "Progress note"
  },
  "category": [
    {
      "coding": [
        {
          "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",
          "code": "clinical-note",
          "display": "Clinical Note"
        }
      ]
    }
  ],
  "subject": {
    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
  },
  "date": "2021-03-24T12:00:00Z",
  "author": [
    {
      "reference": "Practitioner/14",
      "display": "Dr. Max Burger"
    }
  ],
```

```json
    "custodian": {

      "reference": "Organization/1",

      "display": "TechSoft, Inc. DBA Medical Systems"

    },

    "content": [

     {

       "attachment": {

         "contentType": "text/plain",

         "data":
"U3ViamVjdGl2ZSAgICAKQWxzZXJnaWVzIApObyBrbm93biBhbGxlcmdpZXMKT2JqZWN0aXZlOiAgIApBc3
NIc3NtZW50ICAgIApEaWFnbm9zaXMgQ29kZXMgIAo1Mzk1MDAwMCBSZXNwaXJhdG9yeSBUaGVyYXB5I
CAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIDogUmVjb21tZW5kYXRpb24gdG8gYXZva
WQgZXhlcmNpc2UgRGVlcCBicmVhdGhpbmcgYW5kIGNvdWdoaW5nIGV4ZXJjaXNlcwoKUGxhbiAgICAgICAK"

       },

       "format": {

         "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",

         "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

         "display": "mimeType Sufficient"

       }

     }

    ],

    "context": {

     "encounter": [

      {

        "reference": "Encounter/7092-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

     ],
```

```json
      "period": {

        "start": "2021-03-24T12:00:00Z",

        "end": "2021-03-24T12:00:00Z"

      }

    }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/DocumentReference/7086-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "resource": {

      "resourceType": "DocumentReference",

      "id": "7086-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "meta": {

        "versionId": "1",

        "lastUpdated": "2022-12-04T12:32:11Z",

        "source": "#E1VolYkq84D3M96u",

        "profile": [

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

        ]

      },

      "identifier": [

        {

          "value": "7086-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

        }

      ],
```

```json
    "status": "superseded",

    "type": {

     "coding": [

      {

        "system": "http://loinc.org",

        "code": "11506-3",

        "display": "Progress note"

      }

     ],

     "text": "Progress note"

    },

    "category": [

     {

       "coding": [

        {

          "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",

          "code": "clinical-note",

          "display": "Clinical Note"

        }

       ]

     }

    ],

    "subject": {

     "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },
```

```json
    "date": "2021-03-23T12:00:00Z",

    "author": [

     {

       "reference": "Practitioner/14",

       "display": "Dr. Max Burger"

     }

    ],

    "custodian": {

     "reference": "Organization/1",

     "display": "TechSoft, Inc. DBA Medical Systems"

    },

    "content": [

     {

       "attachment": {

         "contentType": "text/plain",

         "data":
```
"U3ViamVjdGl2ZSAgICAgICAgCkFsbGVyZ2llcyAgICAgCk5vIGtub3duIGFsbGVyZ2llcwpPYmplY3RpdmU6ICA
gICAgIApWaXRhbHMgICAgICAKKQlA6IDEyOS84NSBtbUhnIEwgQXJtIFNpdHRpbmcKQXNzZXNzbWVudCAgI
CAgICAgCkRpYWdub3NpcyBDb2RlcyAgICAgIAozODU2OTEwMDcgRnJhY3R1cmUgQ2FyZSAgICAgICAgICAg
ICAgICAgICAgICAgICAgICAgICAgICAgICAgIDogUmVjb21tZW5kYXRpb24gdG8gcmVzdCBQaGl
zaWNhbCBhY3Rpdml0eSB0YXJnZXQgbGlnaHQgZXhlcmNpc2UKClBsYW4gICAgICApQbGFuIE9mIENhc
mUgIAowMy8yMy8yMDIxIEdvYWxzOiBJbiBwYWWlIGVtcGxveW1lbnQKMDMvMjMvMjAyMSBHb2Fsczog
UmVmZXJyYWwgdG8gc3VwcG9ydCBncm91cAowMy8yMy8yMDIxIEhlYWx0aCBDb25jZXJuczogTnV0cml0
aW9uIGltcGFpcmVkIGR1ZS0byBsaW1pdGVkIGFjY2VzcyB0byBoZWFsdGhmdWwgZm9vZHMKMDMvMj
MvMjAyMSBZWFsdGggQ29uY2VybnM6IEFjdXRlIHZpcmFsIHBoYXJ5bmdpdGlzCjAzLzIzLzIwMjEgSGVhbHR
oIENvbmNlcm5zOiBDaHJvbmljIGNvbmdlc3RpdmUgaGVhcnQgZmFpbHVyZQo="
```json
       },

       "format": {

         "system": "http://ihe.net/fhir/ValueSet/IHE.FormatCode.codesystem",
```

```
      "code": "urn:ihe:iti:xds:2017:mimeTypeSufficient",

      "display": "mimeType Sufficient"

     }

    }

   ],

   "context": {

    "encounter": [

     {

       "reference": "Encounter/7086-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

     }

    ],

    "period": {

     "start": "2021-03-23T12:00:00Z",

     "end": "2021-03-23T12:00:00Z"

    }

   }

  }

 ]

}
```

Clinical Tests

US Core Clinical Test Result Observation Profile & US Core DiagnosticReport Profile for Report and Note Exchange

GET https://[Base URL]/Observation?code=2708-6&patient={id}

Example: https://mdrfhirapi.mdronline.net/Observation?code=2708-6&patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```json
{
  "resourceType": "Bundle",
  "id": "bundle-search-result",
  "meta": {
    "lastUpdated": "2022-12-04T12:32:12Z"
  },
  "type": "searchset",
  "total": 3,
  "link": [
    {
      "relation": "self",
      "url": "https://mdrfhirapi.mdronline.net/Observation?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7&code=2708-6&category=v-s"
    }
  ],
  "entry": [
    {
      "fullUrl": "https://mdrfhirapi.mdronline.net/Observation/11434-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-v-s-2708-6",
      "resource": {
        "resourceType": "Observation",
        "id": "11434-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-v-s-2708-6",
        "meta": {
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-pulse-oximetry"
          ]
```

```json
        },
        "text": {
          "status": "generated",
          "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Observation : Pulse-OX</div>"
        },
        "status": "final",
        "category": [
          {
            "coding": [
              {
                "system": "http://terminology.hl7.org/CodeSystem/observation-category",
                "code": "vital-signs",
                "display": "Vital Signs"
              }
            ],
            "text": "Vital Signs"
          }
        ],
        "subject": {
          "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
          "display": "Bosco Lucien"
        },
        "effectiveDateTime": "2022-10-05T04:22:00Z",
        "issued": "2022-10-05T04:22:00Z",
        "code": {
```

```json
    "coding": [

     {

       "system": "http://loinc.org",

       "code": "2708-6",

       "display": "Oxygen saturation in Arterial blood"

     },

     {

       "system": "http://loinc.org",

       "code": "59408-5",

       "display": "Oxygen saturation in Arterial blood by Pulse oximetry"

     }

    ],

    "text": "Oxygen saturation in Arterial blood"

   },

   "valueQuantity": {

    "value": 77,

    "unit": "%",

    "system": "http://unitsofmeasure.org",

    "code": "%"

   },

   "component": [

    {

     "code": {

      "coding": [

       {
```

```json
                    "system": "http://loinc.org",

                    "code": "3151-8",

                    "display": "Inhaled oxygen flow rate"

                  }

                ],

                "text": "Inhaled oxygen flow rate"

              },

              "dataAbsentReason": {

                "coding": [

                  {

                    "system": "http://terminology.hl7.org/CodeSystem/data-absent-reason",

                    "code": "unknown",

                    "display": "Unknown"

                  }

                ],

                "text": "Unknown"

              }

            },

            {

              "code": {

                "coding": [

                  {

                    "system": "http://loinc.org",

                    "code": "3150-0",

                    "display": "Inhaled oxygen concentration"
```

```json
        }
      ],
      "text": "Inhaled oxygen concentration"
    },
    "dataAbsentReason": {
      "coding": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/data-absent-reason",
          "code": "unknown",
          "display": "Unknown"
        }
      ],
      "text": "Unknown"
    }
  }
],
"search": {
  "mode": "match"
}
},
{
  "fullUrl": "https://mdrfhirapi.mdronline.net/Observation/11435-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-v-s-2708-6",
  "resource": {
    "resourceType": "Observation",
```

```json
"id": "11435-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-v-s-2708-6",

"meta": {

 "profile": [

   "http://hl7.org/fhir/us/core/StructureDefinition/us-core-pulse-oximetry"

 ]

},

"text": {

 "status": "generated",

 "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Observation : Pulse-OX</div>"

},

"status": "final",

"category": [

 {

   "coding": [

    {

      "system": "http://terminology.hl7.org/CodeSystem/observation-category",

      "code": "vital-signs",

      "display": "Vital Signs"

    }

   ],

   "text": "Vital Signs"

 }

],

"subject": {

 "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
```

```json
    "display": "Bosco Lucien"

},

"effectiveDateTime": "2022-10-05T04:23:00Z",

"issued": "2022-10-05T04:23:00Z",

"code": {

  "coding": [

    {

      "system": "http://loinc.org",

      "code": "2708-6",

      "display": "Oxygen saturation in Arterial blood"

    },

    {

      "system": "http://loinc.org",

      "code": "59408-5",

      "display": "Oxygen saturation in Arterial blood by Pulse oximetry"

    }

  ],

  "text": "Oxygen saturation in Arterial blood"

},

"dataAbsentReason": {

  "coding": [

    {

      "system": "http://terminology.hl7.org/CodeSystem/data-absent-reason",

      "code": "unknown",

      "display": "Unknown"
```

```
      }

    ],

    "text": "Unknown"

  }

 },

 "search": {

  "mode": "match"

 }

},

{

  "fullUrl": "https://mdrfhirapi.mdronline.net/Observation/11426-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7-v-s-2708-6",

  "resource": {

   "resourceType": "Observation",

   "id": "11426-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-v-s-2708-6",

   "meta": {

    "profile": [

      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-pulse-oximetry"

    ]

   },

   "text": {

    "status": "generated",

    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Observation : Pulse-OX</div>"

   },

   "status": "final",

   "category": [
```

```
  {

    "coding": [

     {

       "system": "http://terminology.hl7.org/CodeSystem/observation-category",

       "code": "vital-signs",

       "display": "Vital Signs"

     }

    ],

    "text": "Vital Signs"

   }

  ],

  "subject": {

   "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

   "display": "Bosco Lucien"

  },

  "effectiveDateTime": "2022-11-21T09:05:00Z",

  "issued": "2022-11-21T09:05:00Z",

  "code": {

   "coding": [

    {

      "system": "http://loinc.org",

      "code": "2708-6",

      "display": "Oxygen saturation in Arterial blood"

    },

    {
```

```json
      "system": "http://loinc.org",

      "code": "59408-5",

      "display": "Oxygen saturation in Arterial blood by Pulse oximetry"

     }

   ],

   "text": "Oxygen saturation in Arterial blood"

 },

 "valueQuantity": {

  "value": 77,

  "unit": "%",

  "system": "http://unitsofmeasure.org",

  "code": "%"

 },

 "component": [

  {

    "code": {

     "coding": [

      {

        "system": "http://loinc.org",

        "code": "3151-8",

        "display": "Inhaled oxygen flow rate"

      }

     ],

     "text": "Inhaled oxygen flow rate"

    },
```

```json
      "valueQuantity": {

        "value": 6,

        "unit": "L/min",

        "system": "http://unitsofmeasure.org",

        "code": "L/min"

      }

    },

    {

      "code": {

        "coding": [

          {

            "system": "http://loinc.org",

            "code": "3150-0",

            "display": "Inhaled oxygen concentration"

          }

        ],

        "text": "Inhaled oxygen concentration"

      },

      "valueQuantity": {

        "value": 40,

        "unit": "%",

        "system": "http://unitsofmeasure.org",

        "code": "%"

      }

    }
```

```
      ]

    },

    "search": {

      "mode": "match"

    }

  }

 ]

}
```

Diagnostic Imaging

US Core Diagnostic Imaging Result Observation Profile & US Core DiagnosticReport Profile for Report and Note Exchange

GET https://[Base URL]/DiagnosticReport?category=LAB&patient={id}

Example: https://mdrfhirapi.mdronline.net/DiagnosticReport?category=LAB&patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",

  "meta": {

    "lastUpdated": "2022-12-04T12:32:11Z"

  },

  "type": "searchset",

  "total": 1,

  "link": [

   {

     "relation": "self",
```

```json
    "url": "https://mdrfhirapi.mdronline.net/DiagnosticReport?category=LAB&patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  }

],

"entry": [

 {

   "fullUrl": "https://mdrfhirapi.mdronline.net/DiagnosticReport/L1020-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

   "resource": {

    "resourceType": "DiagnosticReport",

    "id": "L1020-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

     "versionId": "1",

     "lastUpdated": "2022-12-04T12:32:11Z",

     "source": "#iLFSV7OLv0KF8dmQ",

     "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"

        }

      ],

      "text": "Laboratory"

    }

  ],

  "code": {

    "coding": [

      {

        "system": "http://loinc.org",

        "code": "24331-1",

        "display": "Lipid 1996 panel - Serum or Plasma"

      }

    ],

    "text": "Lipid Panel"

  },

  "subject": {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "effectiveDateTime": "2022-01-26T12:02:08Z",

  "issued": "2022-01-26T12:02:08Z",

  "performer": [

    {

      "reference": "Organization/1"

    },
```

```json
      {
        "reference": "Practitioner/14",

        "display": "Dr. Max Burger"

      }

    ],

    "result": [

      {

        "reference": "Observation/13118-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-laboratory",

        "display": "Cholesterol, Total"

      },

      {

        "reference": "Observation/13119-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-laboratory",

        "display": "Triglycerides"

      },

      {

        "reference": "Observation/13120-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-laboratory",

        "display": "HDL Cholesterol"

      },

      {

        "reference": "Observation/13121-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-laboratory",

        "display": "VLDL Cholesterol Cal"

      },

      {

        "reference": "Observation/13122-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-laboratory",

        "display": "LDL Cholesterol Calc"
```

```json
        }

      ]

    },

    "search": {

      "mode": "match"

    }

  }

 ]

}
```

Encounter Information

US Core US Core Encounter Profile & US Core Condition Encounter Diagnosis Profile

GET https://[Base URL]/Encounte?patient={id}

Example: https://mdrfhirapi.mdronline.net/Encounter?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```json
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",

  "meta": {

    "lastUpdated": "2022-12-04T12:32:15Z"

  },

  "type": "searchset",

  "total": 6,

  "link": [

   {

     "relation": "self",
```

```json
    "url": "https://mdrfhirapi.mdronline.net/Encounter?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  }

],

"entry": [

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/Encounter/7079-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "resource": {

      "resourceType": "Encounter",

      "id": "7079-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "meta": {

        "extension": [

          {

            "url": "http://hl7.org/fhir/StructureDefinition/instance-name>",

            "valueString": "Encounter 7079"

          },

          {

            "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

            "valueMarkdown": "This is an encounter 7079."

          }

        ],

        "profile": [

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

        ]

      },
```

```json
"text": {
  "status": "generated",
  "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">This is an encounter 7079</div>"
},
"identifier": [
  {
    "system": "http://www.mdrhythm.com",
    "value": "7079-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
  }
],
"status": "finished",
"class": {
  "system": "http://terminology.hl7.org/CodeSystem/v3-ActCode",
  "code": "IMP",
  "display": "inpatient encounter"
},
"subject": {
  "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
},
"type": [
  {
    "coding": [
      {
        "system": "http://snomed.info/sct",
        "code": "185347001",
```

```
      "display": "Encounter for problem"

     }

    ],

    "text": "Encounter for problem"

  }

 ],

 "participant": [

  {

   "type": [

    {

     "coding": [

      {

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

       "code": "PPRF",

       "display": "primary performer"

      }

     ],

     "text": "primary performer"

    }

   ],

   "period": {

    "start": "2022-10-05",

    "end": "2022-10-05"

   },

   "individual": {
```

```json
      "reference": "Practitioner/14",

      "display": "Dr. Max Burger"

    }

  }

],

"hospitalization": {

  "dischargeDisposition": {

    "coding": [

      {

        "system": "http://www.nubc.org/patient-discharge",

        "code": "01",

        "display": "Discharged to Home"

      }

    ]

  }

},

"period": {

  "start": "2022-10-05",

  "end": "2022-10-05"

},

"reasonCode": [

  {

    "coding": [

      {

        "system": "http://snomed.info/sct",
```

```json
      "code": "88805009",

        "display": "Chronic Congestive Heart Failure"

       }

     ],

     "text": "Chronic Congestive Heart Failure"

    }

   ],

   "location": [

    {

     "location": {

      "reference": "Location/17",

      "display": "TechSoft, Inc. DBA Medical Systems"

     }

    }

   ],

   "serviceProvider": {

    "reference": "Organization/1",

    "display": "TechSoft, Inc. DBA Medical Systems"

   }

  },

  "search": {

   "mode": "match"

  }

 },

 {
```

```json
    "fullUrl": "https://mdrfhirapi.mdronline.net/Encounter/7078-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

  "resource": {

   "resourceType": "Encounter",

   "id": "7078-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

   "meta": {

    "extension": [

     {

       "url": "http://hl7.org/fhir/StructureDefinition/instance-name>",

       "valueString": "Encounter 7078"

     },

     {

       "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

       "valueMarkdown": "This is an encounter 7078."

     }

    ],

    "profile": [

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

    ]

   },

   "text": {

    "status": "generated",

    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">This is an encounter 7078</div>"

   },

   "identifier": [

    {
```

```
      "system": "http://www.mdrhythm.com",

      "value": "7078-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    }

  ],

  "status": "finished",

  "class": {

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

    "code": "IMP",

    "display": "inpatient encounter"

  },

  "subject": {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "type": [

    {

      "coding": [

        {

          "system": "http://snomed.info/sct",

          "code": "185347001",

          "display": "Encounter for problem"

        }

      ],

      "text": "Encounter for problem"

    }

  ],
```

```json
    "participant": [

     {

      "type": [

       {

        "coding": [

         {

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

          "code": "PPRF",

          "display": "primary performer"

         }

        ],

        "text": "primary performer"

       }

      ],

      "period": {

       "start": "2022-09-10",

       "end": "2022-09-10"

      },

      "individual": {

       "reference": "Practitioner/14",

       "display": "Dr. Max Burger"

      }

     }

    ],

    "hospitalization": {
```

```
    "dischargeDisposition": {

     "coding": [

      {

        "system": "http://www.nubc.org/patient-discharge",

        "code": "01",

        "display": "Discharged to Home"

      }

     ]

    }

  },

  "period": {

   "start": "2022-09-10",

   "end": "2022-09-10"

  },

  "reasonCode": [

   {

     "coding": [

      {

        "system": "http://snomed.info/sct",

        "code": "88805009",

        "display": "Chronic Congestive Heart Failure"

      }

     ],

     "text": "Chronic Congestive Heart Failure"

   }
```

```
      ],

      "location": [

        {

          "location": {

            "reference": "Location/17",

            "display": "TechSoft, Inc. DBA Medical Systems"

          }

        }

      ],

      "serviceProvider": {

        "reference": "Organization/1",

        "display": "TechSoft, Inc. DBA Medical Systems"

      }

    },

    "search": {

      "mode": "match"

    }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/Encounter/7076-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

    "resource": {

      "resourceType": "Encounter",

      "id": "7076-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "meta": {

        "extension": [
```

```
  {

    "url": "http://hl7.org/fhir/StructureDefinition/instance-name>",

    "valueString": "Encounter 7076"

  },

  {

    "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

    "valueMarkdown": "This is an encounter 7076."

  }

  ],

  "profile": [

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

  ]

},

"text": {

 "status": "generated",

 "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">This is an encounter 7076</div>"

},

"identifier": [

 {

   "system": "http://www.mdrhythm.com",

   "value": "7076-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

 }

],

"status": "finished",

"class": {
```

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

   "code": "IMP",

   "display": "inpatient encounter"

  },

  "subject": {

   "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "type": [

   {

    "coding": [

     {

      "system": "http://snomed.info/sct",

      "code": "162673000",

      "display": "General examination of patient"

     }

    ],

    "text": "General examination of patient"

   }

  ],

  "participant": [

   {

    "type": [

     {

      "coding": [

       {
```

```json
          "system": "http://terminology.hl7.org/CodeSystem/v3-ParticipationType",

          "code": "PPRF",

          "display": "primary performer"

        }

      ],

      "text": "primary performer"

    }

  ],

  "period": {

    "start": "2022-06-11",

    "end": "2022-06-11"

  },

  "individual": {

    "reference": "Practitioner/14",

    "display": "Dr. Max Burger"

  }

 }

],

"hospitalization": {

 "dischargeDisposition": {

   "coding": [

    {

      "system": "http://www.nubc.org/patient-discharge",

      "code": "01",

      "display": "Discharged to Home"
```

```json
      }

    ]

  }

},

"period": {

  "start": "2022-06-11",

  "end": "2022-06-11"

},

"reasonCode": [

  {

    "coding": [

     {

       "system": "http://snomed.info/sct",

       "code": "195662009",

       "display": "Acute Viral Pharyngitis"

     }

    ],

    "text": "Acute Viral Pharyngitis"

  }

],

"location": [

  {

    "location": {

      "reference": "Location/17",

      "display": "TechSoft, Inc. DBA Medical Systems"
```

```json
        }

      }

    ],

    "serviceProvider": {

      "reference": "Organization/1",

      "display": "TechSoft, Inc. DBA Medical Systems"

    }

  },

  "search": {

    "mode": "match"

  }

},

{

  "fullUrl": "https://mdrfhirapi.mdronline.net/Encounter/7083-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "resource": {

    "resourceType": "Encounter",

    "id": "7083-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

      "extension": [

        {

          "url": "http://hl7.org/fhir/StructureDefinition/instance-name>",

          "valueString": "Encounter 7083"

        },

        {

          "url": "http://hl7.org/fhir/StructureDefinition/instance-description",
```

```json
      "valueMarkdown": "This is an encounter 7083."

    }

  ],

  "profile": [

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

  ]

},

"text": {

  "status": "generated",

  "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">This is an encounter 7083</div>"

},

"identifier": [

  {

    "system": "http://www.mdrhythm.com",

    "value": "7083-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  }

],

"status": "finished",

"class": {

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

  "code": "IMP",

  "display": "inpatient encounter"

},

"subject": {

  "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
```

```
      },
      "type": [
       {
        "coding": [
         {
          "system": "http://snomed.info/sct",
          "code": "162673000",
          "display": "General examination of patient"
         }
        ],
        "text": "General examination of patient"
       }
      ],
      "participant": [
       {
        "type": [
         {
          "coding": [
           {
            "system": "http://terminology.hl7.org/CodeSystem/v3-ParticipationType",
            "code": "PPRF",
            "display": "primary performer"
           }
          ],
          "text": "primary performer"
```

```json
        }
      ],
      "period": {
        "start": "2022-06-01",
        "end": "2022-06-01"
      },
      "individual": {
        "reference": "Practitioner/14",
        "display": "Dr. Max Burger"
      }
    }
  ],
  "hospitalization": {
    "dischargeDisposition": {
      "coding": [
        {
          "system": "http://www.nubc.org/patient-discharge",
          "code": "01",
          "display": "Discharged to Home"
        }
      ]
    }
  },
  "period": {
    "start": "2022-06-01",
```

```json
    "end": "2022-06-01"

  },

  "reasonCode": [

   {

    "coding": [

     {

       "system": "http://snomed.info/sct",

       "code": "195662009",

       "display": "Acute Viral Pharyngitis"

     }

    ],

    "text": "Acute Viral Pharyngitis"

   }

  ],

  "location": [

   {

    "location": {

     "reference": "Location/17",

     "display": "TechSoft, Inc. DBA Medical Systems"

    }

   }

  ],

  "serviceProvider": {

   "reference": "Organization/1",

   "display": "TechSoft, Inc. DBA Medical Systems"
```

```json
        }
      },
      "search": {
        "mode": "match"
      }
    },
    {
      "fullUrl": "https://mdrfhirapi.mdronline.net/Encounter/7080-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
      "resource": {
        "resourceType": "Encounter",
        "id": "7080-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
        "meta": {
          "extension": [
            {
              "url": "http://hl7.org/fhir/StructureDefinition/instance-name>",
              "valueString": "Encounter 7080"
            },
            {
              "url": "http://hl7.org/fhir/StructureDefinition/instance-description",
              "valueMarkdown": "This is an encounter 7080."
            }
          ],
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-encounter"
          ]
```

```
    },

    "text": {

      "status": "generated",

      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">This is an encounter 7080</div>"

    },

    "identifier": [

      {

        "system": "http://www.mdrhythm.com",

        "value": "7080-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

    ],

    "status": "finished",

    "class": {

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

      "code": "IMP",

      "display": "inpatient encounter"

    },

    "subject": {

      "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    "type": [

      {

        "coding": [

          {

            "system": "http://snomed.info/sct",
```

```json
        "code": "410620009",

        "display": "Well child visit"

       }

     ],

     "text": "Well child visit"

    }

  ],

  "participant": [

   {

    "type": [

     {

      "coding": [

       {

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

        "code": "PPRF",

        "display": "primary performer"

       }

      ],

      "text": "primary performer"

     }

    ],

    "period": {

     "start": "2022-04-07",

     "end": "2022-04-07"

    },
```

```json
      "individual": {

        "reference": "Practitioner/14",

        "display": "Dr. Max Burger"

      }

    }

  ],

  "hospitalization": {

    "dischargeDisposition": {

      "coding": [

        {

          "system": "http://www.nubc.org/patient-discharge",

          "code": "01",

          "display": "Discharged to Home"

        }

      ]

    }

  },

  "period": {

    "start": "2022-04-07",

    "end": "2022-04-07"

  },

  "location": [

    {

      "location": {

        "reference": "Location/17",
```

```
      "display": "TechSoft, Inc. DBA Medical Systems"

    }

   }

  ],

  "serviceProvider": {

   "reference": "Organization/1",

   "display": "TechSoft, Inc. DBA Medical Systems"

  }

 },

 "search": {

  "mode": "match"

 }

},

{

  "fullUrl": "https://mdrfhirapi.mdronline.net/Encounter/7077-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

 "resource": {

  "resourceType": "Encounter",

  "id": "7077-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "meta": {

   "extension": [

    {

     "url": "http://hl7.org/fhir/StructureDefinition/instance-name>",

     "valueString": "Encounter 7077"

    },

    {
```

```json
      "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

      "valueMarkdown": "This is an encounter 7077."

    }

  ],

  "profile": [

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

  ]

},

"text": {

  "status": "generated",

  "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">This is an encounter 7077</div>"

},

"identifier": [

  {

    "system": "http://www.mdrhythm.com",

    "value": "7077-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  }

],

"status": "finished",

"class": {

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

  "code": "IMP",

  "display": "inpatient encounter"

},

"subject": {
```

```json
    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "type": [

   {

    "coding": [

     {

       "system": "http://snomed.info/sct",

       "code": "185347001",

       "display": "Encounter for problem"

     }

    ],

    "text": "Encounter for problem"

   }

  ],

  "participant": [

   {

    "type": [

     {

      "coding": [

       {

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

         "code": "PPRF",

         "display": "primary performer"

       }

      ],
```

```json
      "text": "primary performer"

     }

   ],

   "period": {

    "start": "2022-03-29",

    "end": "2022-03-29"

   },

   "individual": {

    "reference": "Practitioner/14",

    "display": "Dr. Max Burger"

   }

  }

 ],

 "hospitalization": {

  "dischargeDisposition": {

   "coding": [

    {

     "system": "http://www.nubc.org/patient-discharge",

     "code": "01",

     "display": "Discharged to Home"

    }

   ]

  }

 },

 "period": {
```

```json
    "start": "2022-03-29",

     "end": "2022-03-29"

  },

  "reasonCode": [

   {

    "coding": [

     {

      "system": "http://snomed.info/sct",

      "code": "88805009",

      "display": "Chronic Congestive Heart Failure"

     }

    ],

    "text": "Chronic Congestive Heart Failure"

   }

  ],

  "location": [

   {

    "location": {

     "reference": "Location/17",

     "display": "TechSoft, Inc. DBA Medical Systems"

    }

   }

  ],

  "serviceProvider": {

   "reference": "Organization/1",
```

```
      "display": "TechSoft, Inc. DBA Medical Systems"

     }

    },

    "search": {

     "mode": "match"

    }

   }

  ]

}
```

Goals

US Core Goal Profile

GET https://[Base URL]/Goal?patient={id}

Example: https://mdrfhirapi.mdronline.net/Goal?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",

  "meta": {

    "lastUpdated": "2022-12-04T12:32:12Z"

  },

  "type": "searchset",

  "total": 2,

  "link": [

   {

     "relation": "self",

     "url": "https://mdrfhirapi.mdronline.net/Goal?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
```

```json
    }
  ],
  "entry": [
    {
      "fullUrl": "https://mdrfhirapi.mdronline.net/Goal/11479-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
      "resource": {
        "resourceType": "Goal",
        "id": "11479-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
        "meta": {
          "profile": [
            "http://hl7.org/fhir/us/core/StructureDefinition/us-core-goal"
          ]
        },
        "text": {
          "status": "generated",
          "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Goal Details</div>"
        },
        "lifecycleStatus": "active",
        "description": {
          "coding": [
            {
              "system": "http://snomed.info/sct",
              "code": "711281004",
              "display": "Referral to support group"
            }
```

```
        ],

        "text": "Referral to support group"

      },

      "subject": {

        "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

        "display": "Bosco Lucien "

      },

      "target": [

        {

          "dueDate": "2021-03-23"

        }

      ]

    },

    "search": {

      "mode": "match"

    }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/Goal/11480-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "resource": {

      "resourceType": "Goal",

      "id": "11480-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "meta": {

        "profile": [

          "http://hl7.org/fhir/us/core/StructureDefinition/us-core-goal"
```

```json
    ]
  },
  "text": {
    "status": "generated",
    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Goal Details</div>"
  },
  "lifecycleStatus": "active",
  "description": {
    "coding": [
      {
        "system": "http://snomed.info/sct",
        "code": "406156006",
        "display": "In paid employment"
      }
    ],
    "text": "In paid employment"
  },
  "subject": {
    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
    "display": "Bosco Lucien "
  },
  "target": [
    {
      "dueDate": "2021-03-23"
    }
```

```
    ]

   },

   "search": {

    "mode": "match"

   }

  }

 ]

}
```

Health Concerns

US Core Condition Profile (USCDI v1 only) & US Core Condition Problems and Health Concerns Profile

GET https://[Base URL]/Condition?patient={id}

Example: https://mdrfhirapi.mdronline.net/Condition?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",

  "meta": {

    "lastUpdated": "2022-12-04T12:32:09Z"

  },

  "type": "searchset",

  "total": 13,

  "link": {

    "relation": "self",

    "url": "https://mdrfhirapi.mdronline.net/Condition?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "entry": [
```

```json
{
  "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11497-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
  "resource": {
    "resourceType": "Condition",
    "id": "11497-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
    "meta": {
      "extension": [
        {
          "url": "http://hl7.org/fhir/StructureDefinition/instance-name",
          "valueString": "Encounter - "
        },
        {
          "url": "http://hl7.org/fhir/StructureDefinition/instance-description",
          "valueMarkdown": "Encounter - "
        }
      ],
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-problems-health-concerns"
      ]
    },
    "text": {
      "status": "extensions",
      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Nutrition Impaired Due To Limited Access To Healthful Foods</div>"
    },
```

```json
    "identifier": [

     {

       "value": "11497"

     }

    ],

    "extension": [

     {

       "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",

       "valueDateTime": "2022-11-29T12:00:00Z"

     }

    ],

    "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://hl7.org/fhir/us/core/CodeSystem/condition-category",
          "code": "health-concern",
          "display": "Health Concern"
        }
      ]
    },
    {
      "coding": [
        {
          "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-tags",
          "code": "sdoh",
          "display": "SDOH"
        }
      ]
    }
  ],
  "code": {
    "coding": [
      {
```

```json
        "system": "http://snomed.info/sct",

        "code": "445281000124101",

        "display": "Nutrition Impaired Due To Limited Access To Healthful Foods"

       }

      ]

     },

     "subject": {

       "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

     },

     "encounter": {

       "reference": "Encounter/7086-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

     },

     "onsetDateTime": "2022-11-29T12:00:00Z",

     "recordedDate": "2022-11-29T09:07:36Z"

    },

    "search": {

      "mode": "match"

    }

   },

   {

    "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11469-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "resource": {

     "resourceType": "Condition",

     "id": "11469-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

     "meta": {
```

```json
    "extension": [

      {

        "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

        "valueString": "Encounter - Fracture Care"

      },

      {

        "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

        "valueMarkdown": "Encounter - Fracture Care"

      }

    ],

    "profile": [

      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-encounter-diagnosis"

    ]

  },

  "text": {

    "status": "extensions",

    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Fracture Care</div>"

  },

  "identifier": [

    {

      "value": "11469"

    }

  ],

  "extension": [

    {
```

```
      "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",

      "valueDateTime": "2022-11-22T12:00:00Z"

   }

],

"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",
```

```json
      "code": "encounter-diagnosis"

    },

    {

      "system": "http://snomed.info/sct",

      "code": "439401001",

      "display": "diagnosis"

    }

   ]

  }

],

"code": {

 "coding": [

  {

    "system": "http://snomed.info/sct",

    "code": "385691007",

    "display": "Fracture Care"

  }

 ]

},

"subject": {

 "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

"encounter": {

 "reference": "Encounter/7086-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},
```

```json
    "onsetDateTime": "2022-11-22T12:00:00Z",

    "recordedDate": "2022-11-22T12:16:07Z"

  },

  "search": {

    "mode": "match"

  }

},

{

  "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11470-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "resource": {

    "resourceType": "Condition",

    "id": "11470-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

      "extension": [

        {

          "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

          "valueString": "Encounter - Respiratory Therapy"

        },

        {

          "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

          "valueMarkdown": "Encounter - Respiratory Therapy"

        }

      ],

      "profile": [

        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-encounter-diagnosis"
```

```json
      ]
    },
    "text": {
      "status": "extensions",
      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Respiratory Therapy</div>"
    },
    "identifier": [
      {
        "value": "11470"
      }
    ],
    "extension": [
      {
        "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",
        "valueDateTime": "2022-11-22T12:00:00Z"
      }
    ],
    "clinicalStatus": {
      "coding": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/condition-clinical",
          "code": "active"
        }
      ]
    },
```

```json
    "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"

          },

          {

            "system": "http://snomed.info/sct",

            "code": "439401001",

            "display": "diagnosis"

          }

        ]

      }

    ],

    "code": {

      "coding": [
```

```json
      {
        "system": "http://snomed.info/sct",

        "code": "53950000",

        "display": "Respiratory Therapy"

      }

    ]

  },

  "subject": {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "encounter": {

    "reference": "Encounter/7092-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  "onsetDateTime": "2022-11-22T12:00:00Z",

  "recordedDate": "2022-11-22T12:33:01Z"

  },

  "search": {

    "mode": "match"

  }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11443-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "resource": {

    "resourceType": "Condition",

    "id": "11443-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
```

```json
  "meta": {

   "extension": [

    {

      "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

      "valueString": "Encounter - Acute Viral Pharyngitis"

    },

    {

      "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

      "valueMarkdown": "Encounter - Acute Viral Pharyngitis"

    }

   ],

   "profile": [

    "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-encounter-diagnosis"

   ]

  },

  "text": {

   "status": "extensions",

   "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Acute Viral Pharyngitis</div>"

  },

  "identifier": [

   {

    "value": "11443"

   }

  ],

  "extension": [
```

```json
    {
      "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",

      "valueDateTime": "2022-11-22T12:00:00Z"

    }

  ],

  "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": "encounter-diagnosis"

    },

    {

      "system": "http://snomed.info/sct",

      "code": "439401001",

      "display": "diagnosis"

    }

   ]

  }

 ],

 "code": {

  "coding": [

   {

     "system": "http://snomed.info/sct",

     "code": "195662009",

     "display": "Acute Viral Pharyngitis"

   }

  ]

 },

 "subject": {

  "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

 },

 "encounter": {

  "reference": "Encounter/7076-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
```

```json
      },
      "onsetDateTime": "2022-11-22T12:00:00Z",
      "recordedDate": "2022-11-22T08:34:28Z"
    },
    "search": {
     "mode": "match"
    }
   },
   {
    "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11456-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
    "resource": {
     "resourceType": "Condition",
     "id": "11456-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
     "meta": {
      "extension": [
       {
        "url": "http://hl7.org/fhir/StructureDefinition/instance-name",
        "valueString": "Encounter - Acute Viral Pharyngitis"
       },
       {
        "url": "http://hl7.org/fhir/StructureDefinition/instance-description",
        "valueMarkdown": "Encounter - Acute Viral Pharyngitis"
       }
      ],
      "profile": [
```

```
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-encounter-diagnosis"

    ]

},

"text": {

  "status": "extensions",

  "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Acute Viral Pharyngitis</div>"

},

"identifier": [

 {

    "value": "11456"

 }

],

"extension": [

 {

    "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",

    "valueDateTime": "2022-11-22T12:00:00Z"

 }

],

"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": "encounter-diagnosis"
          },
          {
            "system": "http://snomed.info/sct",
            "code": "439401001",
            "display": "diagnosis"
          }
        ]
      }
    ],
    "code": {
```

```
    "coding": [

     {

      "system": "http://snomed.info/sct",

      "code": "195662009",

      "display": "Acute Viral Pharyngitis"

     }

    ]

   },

   "subject": {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

   },

   "encounter": {

    "reference": "Encounter/7081-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

   },

   "onsetDateTime": "2022-11-22T12:00:00Z",

   "recordedDate": "2022-11-22T08:34:28Z"

  },

  "search": {

   "mode": "match"

  }

 },

 {

  "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11444-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

  "resource": {

   "resourceType": "Condition",
```

```json
"id": "11444-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

"meta": {

  "extension": [

    {

      "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

      "valueString": "Encounter - Acute Viral Pharyngitis"

    },

    {

      "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

      "valueMarkdown": "Encounter - Acute Viral Pharyngitis"

    }

  ],

  "profile": [

    "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-encounter-diagnosis"

  ]

},

"text": {

  "status": "extensions",

  "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Acute Viral Pharyngitis</div>"

},

"identifier": [

  {

    "value": "11444"

  }

],
```

```json
    "extension": [

     {

       "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",

       "valueDateTime": "2022-11-22T12:00:00Z"

     }

    ],

    "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": "encounter-diagnosis"

    },

    {

      "system": "http://snomed.info/sct",

      "code": "439401001",

      "display": "diagnosis"

    }

  ]

 }

],

"code": {

 "coding": [

  {

    "system": "http://snomed.info/sct",

    "code": "195662009",

    "display": "Acute Viral Pharyngitis"

  }

 ]

},

"subject": {

 "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

"encounter": {
```

```json
      "reference": "Encounter/7083-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    "onsetDateTime": "2022-11-22T12:00:00Z",

    "recordedDate": "2022-11-22T08:34:28Z"

  },

  "search": {

    "mode": "match"

  }

},

{

  "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11482-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "resource": {

    "resourceType": "Condition",

    "id": "11482-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

      "extension": [

        {

          "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

          "valueString": "Encounter - "

        },

        {

          "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

          "valueMarkdown": "Encounter - "

        }

      ],
```

```json
    "profile": [

      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-problems-health-concerns"

     ]

    },

    "text": {

     "status": "extensions",

     "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Acute Viral Pharyngitis</div>"

    },

    "identifier": [

     {

       "value": "11482"

     }

    ],

    "extension": [

     {

       "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",

       "valueDateTime": "2022-11-22T12:00:00Z"

     }

    ],

    "clinicalStatus": {

     "coding": [

      {

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

        "code": "active"

      }
```

```json
      ]
    },
    "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",
            "display": "Health Concern"
          }
        ]
      }
    ],
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
```

```json
      "code": "195662009",

      "display": "Acute Viral Pharyngitis"

     }

    ]

   },

   "subject": {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

   },

   "encounter": {

    "reference": "Encounter/7086-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

   },

   "onsetDateTime": "2022-11-22T12:00:00Z",

   "recordedDate": "2022-11-22T08:34:28Z"

   },

   "search": {

    "mode": "match"

   }

  },

  {

   "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11454-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

   "resource": {

    "resourceType": "Condition",

    "id": "11454-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

     "extension": [
```

```json
    {
      "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

      "valueString": "Encounter - Viral Sinusitis"

    },

    {

      "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

      "valueMarkdown": "Encounter - Viral Sinusitis"

    }

    ],

    "profile": [

    "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-encounter-diagnosis"

    ]

  },

  "text": {

    "status": "extensions",

    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Viral Sinusitis</div>"

  },

  "identifier": [

    {

      "value": "11454"

    }

  ],

  "extension": [

    {

      "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",
```

```json
      "valueDateTime": "2022-11-22T12:00:00Z"

    }

  ],

  "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": "encounter-diagnosis"
```

```json
      },
      {
        "system": "http://snomed.info/sct",
        "code": "439401001",
        "display": "diagnosis"
      }
    ]
  }
],
"code": {
  "coding": [
    {
      "system": "http://snomed.info/sct",
      "code": "444814009",
      "display": "Viral Sinusitis"
    }
  ]
},
"subject": {
  "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
},
"encounter": {
  "reference": "Encounter/7082-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
},
"onsetDateTime": "2022-11-22T12:00:00Z",
```

```json
      "recordedDate": "2022-11-22T08:39:44Z"

    },

    "search": {

      "mode": "match"

    }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11455-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "resource": {

      "resourceType": "Condition",

      "id": "11455-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "meta": {

        "extension": [

          {

            "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

            "valueString": "Encounter - Otitis Media"

          },

          {

            "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

            "valueMarkdown": "Encounter - Otitis Media"

          }

        ],

        "profile": [

          "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-encounter-diagnosis"

        ]
```

```
      },

      "text": {

        "status": "extensions",

        "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Otitis Media</div>"

      },

      "identifier": [

       {

         "value": "11455"

       }

      ],

      "extension": [

       {

         "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",

         "valueDateTime": "2022-11-22T12:00:00Z"

       }

      ],

      "clinicalStatus": {

        "coding": [

         {

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

           "code": "resolved"

         }

        ]

      },

      "verificationStatus": {
```

```json
    "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"

       },

       {

         "system": "http://snomed.info/sct",

         "code": "439401001",

         "display": "diagnosis"

       }

      ]

    }

   ],

   "code": {

    "coding": [

      {
```

```json
      "system": "http://snomed.info/sct",

      "code": "65363002",

      "display": "Otitis Media"

     }

    ]

   },

   "subject": {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

   },

   "encounter": {

    "reference": "Encounter/7074-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

   },

   "onsetDateTime": "2022-11-22T12:00:00Z",

   "abatementDateTime": "2022-01-26T12:00:00Z",

   "recordedDate": "2022-11-22T08:40:39Z"

  },

  "search": {

   "mode": "match"

  }

 },

 {

  "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11415-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

  "resource": {

   "resourceType": "Condition",

   "id": "11415-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
```

```json
  "meta": {

   "extension": [

    {

      "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

      "valueString": "Encounter - Chronic Congestive Heart Failure"

    },

    {

      "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

      "valueMarkdown": "Encounter - Chronic Congestive Heart Failure"

    }

   ],

   "profile": [

    "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-encounter-diagnosis"

   ]

  },

  "text": {

   "status": "extensions",

    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Chronic Congestive Heart Failure</div>"

  },

  "identifier": [

   {

     "value": "11415"

   }

  ],

  "extension": [
```

```json
    {
      "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",
      "valueDateTime": "2022-11-19T12:00:00Z"
    }
  ],
  "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": [
        {
```

```json
        "system": "http://terminology.hl7.org/CodeSystem/condition-category",

        "code": "encounter-diagnosis"

      },

      {

        "system": "http://snomed.info/sct",

        "code": "439401001",

        "display": "diagnosis"

      }

    ]

  }

],

"code": {

  "coding": [

    {

      "system": "http://snomed.info/sct",

      "code": "88805009",

      "display": "Chronic Congestive Heart Failure"

    }

  ]

},

"subject": {

  "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

"encounter": {

  "reference": "Encounter/7077-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
```

```
      },

      "onsetDateTime": "2022-11-19T12:00:00Z",

      "abatementDateTime": "2022-03-29T12:00:00Z",

      "recordedDate": "2022-11-19T02:20:28Z"

    },

    "search": {

      "mode": "match"

    }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11417-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

    "resource": {

      "resourceType": "Condition",

      "id": "11417-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "meta": {

        "extension": [

          {

            "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

            "valueString": "Encounter - Chronic Congestive Heart Failure"

          },

          {

            "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

            "valueMarkdown": "Encounter - Chronic Congestive Heart Failure"

          }

        ],
```

```json
    "profile": [

      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-encounter-diagnosis"

     ]

    },

    "text": {

     "status": "extensions",

      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Chronic Congestive Heart
Failure</div>"

    },

    "identifier": [

     {

       "value": "11417"

     }

    ],

    "extension": [

     {

       "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",

       "valueDateTime": "2022-11-19T12:00:00Z"

     }

    ],

    "clinicalStatus": {

     "coding": [

      {

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

        "code": "resolved"

      }
```

```json
      ]
    },
    "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"
          },
          {
            "system": "http://snomed.info/sct",
            "code": "439401001",
            "display": "diagnosis"
          }
        ]
      }
    ],
```

```json
      "code": {
        "coding": [
          {
            "system": "http://snomed.info/sct",
            "code": "88805009",
            "display": "Chronic Congestive Heart Failure"
          }
        ]
      },
      "subject": {
        "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
      },
      "encounter": {
        "reference": "Encounter/7078-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
      },
      "onsetDateTime": "2022-11-19T12:00:00Z",
      "abatementDateTime": "2022-09-10T12:00:00Z",
      "recordedDate": "2022-11-19T02:20:28Z"
    },
    "search": {
      "mode": "match"
    }
  },
  {
    "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11419-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
```

```json
  "resource": {

    "resourceType": "Condition",

    "id": "11419-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

      "extension": [

        {

          "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

          "valueString": "Encounter - Chronic Congestive Heart Failure"

        },

        {

          "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

          "valueMarkdown": "Encounter - Chronic Congestive Heart Failure"

        }

      ],

      "profile": [

        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-encounter-diagnosis"

      ]

    },

    "text": {

      "status": "extensions",

      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Chronic Congestive Heart Failure</div>"

    },

    "identifier": [

      {

        "value": "11419"
```

```json
 }
    ],
    "extension": [
     {
       "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",
       "valueDateTime": "2022-11-19T12:00:00Z"
     }
    ],
    "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": [
```

```json
        {
          "coding": [
            {
              "system": "http://terminology.hl7.org/CodeSystem/condition-category",
              "code": "encounter-diagnosis"
            },
            {
              "system": "http://snomed.info/sct",
              "code": "439401001",
              "display": "diagnosis"
            }
          ]
        }
      ],
      "code": {
        "coding": [
          {
            "system": "http://snomed.info/sct",
            "code": "88805009",
            "display": "Chronic Congestive Heart Failure"
          }
        ]
      },
      "subject": {
        "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
```

```
        },

        "encounter": {

            "reference": "Encounter/7079-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

        },

        "onsetDateTime": "2022-11-19T12:00:00Z",

        "abatementDateTime": "2022-10-05T12:00:00Z",

        "recordedDate": "2022-11-19T02:20:28Z"

    },

    "search": {

        "mode": "match"

    }

},

{

    "fullUrl": "https://mdrfhirapi.mdronline.net/Condition/11481-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "resource": {

        "resourceType": "Condition",

        "id": "11481-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

        "meta": {

            "extension": [

                {

                    "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

                    "valueString": "Encounter - "

                },

                {

                    "url": "http://hl7.org/fhir/StructureDefinition/instance-description",
```

```json
      "valueMarkdown": "Encounter - "

    }

  ],

   "profile": [

     "http://hl7.org/fhir/us/core/StructureDefinition/us-core-condition-problems-health-concerns"

   ]

  },

  "text": {

   "status": "extensions",

    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Encounter - Chronic Congestive Heart
Failure</div>"

  },

  "identifier": [

   {

     "value": "11481"

   }

  ],

  "extension": [

   {

     "url": "http://hl7.org/fhir/StructureDefinition/condition-assertedDate",

     "valueDateTime": "2022-11-19T12:00:00Z"

   }

  ],

  "clinicalStatus": {

   "coding": [

     {
```

```json
      "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://hl7.org/fhir/us/core/CodeSystem/condition-category",

       "code": "health-concern",

       "display": "Health Concern"

     }

    ]

  }

],

"code": {
```

```
      "coding": [

       {

         "system": "http://snomed.info/sct",

         "code": "88805009",

         "display": "Chronic Congestive Heart Failure"

       }

      ]

    },

    "subject": {

      "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    "encounter": {

      "reference": "Encounter/7086-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    "onsetDateTime": "2022-11-19T12:00:00Z",

    "abatementDateTime": "2021-03-23T12:00:00Z",

    "recordedDate": "2022-11-19T02:20:28Z"

  },

  "search": {

    "mode": "match"

  }

 }

]

}
```

Immunizations

US Core Immunization Profile

GET https://[Base URL]/Immunization?patient={id}

Example: https://mdrfhirapi.mdronline.net/Immunization?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```json
{

 "resourceType": "Bundle",

 "id": "bundle-search-result",

 "meta": {

  "lastUpdated": "2022-12-04T12:32:12Z"

 },

 "type": "searchset",

 "total": 2,

 "link": [

  {

   "relation": "self",

   "url": "https://mdrfhirapi.mdronline.net/Immunization?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  }

 ],

 "entry": [

  {

   "fullUrl": "https://mdrfhirapi.mdronline.net/Immunization/1425-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

   "resource": {

    "resourceType": "Immunization",

    "id": "1425-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {
```

```json
    "extension": [

     {

       "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

       "valueString": "Immunzation -1425"

     },

     {

       "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

       "valueMarkdown": "Immunzation-1425"

     }

    ],

    "profile": [

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

    ]

   },

   "text": {

    "status": "generated",

    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Immunization Details</div>"

   },

   "status": "completed",

   "vaccineCode": {

    "coding": [

     {

       "system": "http://hl7.org/fhir/sid/cvx",

       "code": "140",

       "display": "Influenza"
```

```json
    },
    {
      "system": "http://hl7.org/fhir/sid/ndc",
      "code": "33332032203",
      "display": "Afluria PF Quadrivalent 2022-2023 preservative-free quadrivalent suspension"
    }
  ],
  "text": "Influenza"
},
"patient": {
  "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
},
"occurrenceDateTime": "1950-04-07T12:00:00Z",
"primarySource": true,
"location": {
  "reference": "Location/17"
},
"site": {
  "coding": [
    {
      "system": "http://terminology.hl7.org/CodeSystem/v3-ActSite",
      "code": "LA",
      "display": "Left Arm"
    }
  ]
```

```json
        },

        "route": {

          "coding": [

            {

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

              "code": "IM"

            }

          ]

        },

        "doseQuantity": {

          "value": 0.5,

          "system": "http://unitsofmeasure.org",

          "code": "mL"

        }

      },

      "search": {

        "mode": "match"

      }

    },

    {

      "fullUrl": "https://mdrfhirapi.mdronline.net/Immunization/1428-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "resource": {

        "resourceType": "Immunization",

        "id": "1428-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

        "meta": {
```

```json
  "extension": [

   {

     "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

     "valueString": "Immunzation -1428"

   },

   {

     "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

     "valueMarkdown": "Immunzation-1428"

   }

  ],

  "profile": [

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

  ]

 },

 "text": {

  "status": "generated",

  "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Immunization Details</div>"

 },

 "status": "not-done",

 "statusReason": {

  "coding": [

   {

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

     "code": "PATOBJ",

     "display": "patient objection"
```

```json
        }
      ]
    },
    "vaccineCode": {
      "coding": [
        {
          "system": "http://hl7.org/fhir/sid/cvx",
          "code": "52",
          "display": "Hepatits A"
        }
      ],
      "text": "Hepatits A"
    },
    "patient": {
      "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    "occurrenceDateTime": "2022-12-01T12:00:00Z",
    "primarySource": true,
    "note": [
      {
        "text": "Refusal-Parental decision"
      }
    ]
  },
  "search": {
```

```
      "mode": "match"

    }

  }

 ]

}
```

Laboratory

US Core Laboratory Result Observation Profile & US Core DiagnosticReport Profile for Report and Note Exchange

See Clinical Tests section.

Medications

US Core Medication Profile, US Core MedicationRequest Profile, US Core AllergyIntolerance Profile

GET https://[Base URL]/MedicationRequest?intent=proposal&patient={id}

Example: https://mdrfhirapi.mdronline.net/MedicationRequest?intent=proposal&patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",

  "meta": {

    "lastUpdated": "2022-12-04T12:32:12Z"

  },

  "type": "searchset",

  "total": 1,

  "link": [

    {

      "relation": "self",
```

    "url": "https://mdrfhirapi.mdronline.net/MedicationRequest?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  }

],

"entry": [

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/MedicationRequest/4918-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "resource": {

     "resourceType": "MedicationRequest",

     "id": "4918-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

     "meta": {

      "profile": [

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

      ]

     },

     "text": {

      "status": "generated",

      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Medication Request Details</div>"

     },

     "status": "active",

     "intent": "proposal",

     "category": [

      {

        "coding": [

         {

```json
      "system": "http://terminology.hl7.org/CodeSystem/medicationrequest-category",

      "code": "community",

      "display": "Community"

    }

  ],

  "text": "Outpatient"

 }

],

"reportedBoolean": true,

"medicationCodeableConcept": {

 "coding": [

  {

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

    "code": "314076",

    "display": "lisinopril 10 mg oral tablet"

  }

 ],

 "text": "lisinopril 10 mg oral tablet"

},

"subject": {

 "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

 "display": "Lucien Bosco"

},

"encounter": {

 "reference": "Encounter/7098-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
```

```json
    },

    "authoredOn": "2022-12-01",

    "requester": {

      "reference": "Practitioner/14",

      "display": "Max Burger, MD"

    },

    "reasonReference": [

     {

       "reference": "Condition/7997-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

     }

    ]

   },

   "search": {

     "mode": "match"

   }

  }

 ]

}
```

Patient Demographics

US Core Patient Profile

GET https://[Base URL]/Patient?={id}

Example: https://mdrfhirapi.mdronline.net/Patient?_id=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```json
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",
```

```
"meta": {

  "lastUpdated": "2022-12-04T12:31:59Z"

},

"type": "searchset",

"total": 1,

"entry": [

 {

   "fullUrl": "patient?identifier=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

   "resource": {

    "resourceType": "Patient",

    "id": "70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

     "profile": [

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

     ]

    },

    "text": {

     "status": "generated",

     "div": "<div xmlns='http://www.w3.org/1999/xhtml'>Bosco Lucien Pharm934 Olson Highlands Lowell, MA, 01854Home: (555)5106-254 Work: unknown Mobile: unknownMRN: 70a867d3-31a3-4dfe-b0f2-55ee354ff4f7</div>"

    },

    "extension": [

     {

       "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-race",

       "extension": [
```

```json
      {
        "url": "text",
        "valueString": "White"
      },
      {
        "url": "ombCategory",
        "valueCoding": {
          "system": "urn:oid:2.16.840.1.113883.6.238",
          "code": "2106-3",
          "display": "White"
        }
      }
    ]
  },
  {
    "extension": [
      {
        "url": "ombCategory",
        "valueCoding": {
          "system": "urn:oid:2.16.840.1.113883.6.238",
          "code": "2186-5",
          "display": "Not Hispanic or Latino"
        }
      },
      {
```

```json
      "url": "text",

      "valueString": "Not Hispanic or Latino"

    }

  ],

  "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-ethnicity"

},

{

  "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-birthsex",

  "valueCode": "M"

},

{

  "url": "http://hl7.org/fhir/us/core/StructureDefinition/us-core-genderIdentity",

  "valueCodeableConcept": {

    "coding": [

     {

       "system": "http://www.snomed.org/",

       "code": "446151000124109",

       "display": "Male gender identity"

     }

    ],

    "text": "Male gender identity"

  }

}

],

"identifier": [
```

```json
    {
      "use": "usual",
      "type": {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/v2-0203",
            "code": "MR"
          }
        ]
      },
      "system": "urn:oid:0.1.2.3.4.5.6.7",
      "value": "70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
      "assigner": {
        "reference": "Organization/1",
        "display": "TechSoft, Inc. DBA Medical Systems"
      }
    }
  ],
  "active": true,
  "name": [
    {
      "use": "official",
      "text": "Bosco Lucien Pharm",
      "family": "Bosco",
      "given": [
```

```
      "Lucien"

    ],

    "suffix": [

      "Pharm"

    ],

    "period": {

      "start": "2022-11-19",

      "end": "2022-12-04"

    }

  },

  {

    "use": "old",

    "text": "Bosco Lucien Pharm",

    "family": "Bosco",

    "given": [

      "Lucien"

    ],

    "suffix": [

      "Pharm"

    ],

    "period": {

      "start": "2022-11-19",

      "end": "2022-12-04"

    }

  }
```

```
    ],
    "telecom": [
      {
        "system": "phone",
        "value": "5555106254",
        "use": "home"
      }
    ],
    "gender": "male",
    "birthDate": "1940-03-29",
    "deceasedBoolean": true,
    "address": [
      {
        "line": [
          "934 Olson Highlands"
        ],
        "city": "Lowell",
        "state": "MA",
        "postalCode": "01854",
        "period": {
          "start": "2022-11-19"
        }
      },
      {
        "use": "old",
```

```json
      "line": [

        "934 Olson Highlands"

      ],

      "city": "Lowell",

      "state": "MA",

      "postalCode": "01854",

      "period": {

        "start": "2022-11-19",

        "end": "2022-12-04"

      }

     }

   ],

   "maritalStatus": {

    "coding": [

     {

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

        "code": "M",

        "display": "Married"

     }

    ],

    "text": "Married"

   },

   "contact": [

    {

      "relationship": [
```

```json
    {
      "coding": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/v2-0131",
          "code": "C"
        },
        {
          "system": "http://terminology.hl7.org/CodeSystem/v3-RoleCode",
          "code": "PRN",
          "display": "parent"
        }
      ]
    }
  ],
  "name": {
    "use": "usual",
    "text": "Bosco Joseph"
  },
  "telecom": [
    {
      "system": "phone",
      "value": "5555106254",
      "use": "home"
    }
  ]
```

```json
    }
  ],
  "communication": [
    {
      "language": {
        "coding": [
          {
            "system": "urn:ietf:bcp:47",
            "code": "en",
            "display": "English"
          }
        ]
      },
      "preferred": true
    }
  ],
  "generalPractitioner": [
    {
      "reference": "Practitioner/14",
      "display": "Dr. Max Burger"
    }
  ],
  "managingOrganization": {
    "reference": "Organization/1",
    "display": "TechSoft, Inc. DBA Medical Systems"
```

```
      }

    }

  }

 ]

}
```

Problems

US Core Condition Profile (USCDI v1 only) & US Core Condition Problems and Health Concerns Profile

See Health Concerns section.

Procedures

US Core Procedure Profile

GET https://[Base URL]/ Procedure?patient={id}

Example: https://mdrfhirapi.mdronline.net/Procedure?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",

  "meta": {

    "lastUpdated": "2022-12-04T12:32:15Z"

  },

  "type": "searchset",

  "total": 8,

  "link": [

    {

      "relation": "self",
```

```json
    "url": "https://mdrfhirapi.mdronline.net/Procedure?patient=70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7"

  }

 ],

 "entry": [

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/Procedure/1537-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

    "resource": {

     "resourceType": "Procedure",

     "id": "1537-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

     "meta": {

      "extension": [

       {

         "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

         "valueString": "Capillary refill Time Nail Bed Example"

       },

       {

         "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

         "valueMarkdown": "Capillary refill Time Nail Bed Example"

       }

      ],

      "profile": [

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

      ]

     },
```

```json
    "text": {

      "status": "generated",

      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Procedures Details</div>"

    },

    "identifier": [

     {

       "value": "1537"

     }

    ],

    "status": "completed",

    "code": {

      "coding": [

       {

         "system": "http://snomed.info/sct",

         "code": "44963-7"

       }

      ]

    },

    "subject": {

      "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "display": "Bosco Lucien "

    },

    "performedDateTime": "2022-12-03"

  },

  "search": {
```

```
    "mode": "match"

  }

},

{

  "fullUrl": "https://mdrfhirapi.mdronline.net/Procedure/1525-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

  "resource": {

    "resourceType": "Procedure",

    "id": "1525-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

      "extension": [

        {

          "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

          "valueString": "Electrocardiogram"

        },

        {

          "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

          "valueMarkdown": "Electrocardiogram, routine ECG with at least 12 leads; with interpretation
and report"

        }

      ],

      "profile": [

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

      ]

    },

    "text": {
```

```json
    "status": "generated",

    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Procedures Details</div>"

    },

    "identifier": [

     {

       "value": "1525"

     }

    ],

    "status": "completed",

    "code": {

     "coding": [

      {

        "system": "http://snomed.info/sct",

        "code": "271334005",

        "display": "Electrocardiogram"

      },

      {

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

        "code": "93000",

        "display": "Electrocardiogram, routine ECG with at least 12 leads; with interpretation and
report"

      }

     ],

     "text": "Electrocardiogram"

    },

    "subject": {
```

```json
      "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "display": "Bosco Lucien "

    },

    "performedDateTime": "2022-05-17",

    "performer": [

     {

       "actor": {

        "reference": "Practitioner/14"

       }

     }

    ]

   },

   "search": {

     "mode": "match"

   }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/Procedure/1526-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

    "resource": {

     "resourceType": "Procedure",

     "id": "1526-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

     "meta": {

      "extension": [

        {

         "url": "http://hl7.org/fhir/StructureDefinition/instance-name",
```

```json
        "valueString": "Ear Wax Removal"

      },

      {

        "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

        "valueMarkdown": "Removal impacted cerumen using irrigation/lavage, unilateral"

      }

    ],

    "profile": [

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

    ]

  },

  "text": {

    "status": "generated",

    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Procedures Details</div>"

  },

  "identifier": [

    {

      "value": "1526"

    }

  ],

  "status": "completed",

  "code": {

    "coding": [

      {

        "system": "http://snomed.info/sct",
```

```json
      "code": "385904005",

      "display": "Removal of ear wax"

    },

    {

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

      "code": "69209",

      "display": "Removal impacted cerumen using irrigation/lavage, unilateral"

    }

  ],

  "text": "Removal of ear wax"

},

"subject": {

  "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "display": "Bosco Lucien "

},

"performedDateTime": "2022-05-17",

"performer": [

  {

    "actor": {

      "reference": "Practitioner/14"

    }

  }

]

},

"search": {
```

```json
      "mode": "match"

    }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/Procedure/1524-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "resource": {

      "resourceType": "Procedure",

      "id": "1524-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "meta": {

        "extension": [

          {

            "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

            "valueString": "Nebulizer Treatment"

          },

          {

            "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

            "valueMarkdown": "Pressurized or nonpressurized inhalation treatment for acute airway obstruction for therapeutic purposes and/or for diagnostic purposes such as sputum induction with an aerosol generator, nebulizer, metered dose inhaler or intermittent positive pressure breathing (IPPB) device"

          }

        ],

        "profile": [

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

        ]

      },
```

```json
    "text": {

      "status": "generated",

      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Procedures Details</div>"

    },

    "identifier": [

      {

        "value": "1524"

      }

    ],

    "status": "completed",

    "code": {

      "coding": [

        {

          "system": "http://snomed.info/sct",

          "code": "56251003",

          "display": "Respiratory medication administered by nebulizer"

        },

        {

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

          "code": "94640",

          "display": "Pressurized or nonpressurized inhalation treatment for acute airway obstruction for therapeutic purposes and/or for diagnostic purposes such as sputum induction with an aerosol generator, nebulizer, metered dose inhaler or intermittent positive pressure breathing (IPPB) device"

        }

      ],

      "text": "Respiratory medication administered by nebulizer"
```

```json
        },

        "subject": {

          "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

          "display": "Bosco Lucien "

        },

        "performedDateTime": "2022-05-17",

        "performer": [

          {

            "actor": {

              "reference": "Practitioner/14"

            }

          }

        ]

      },

      "search": {

        "mode": "match"

      }

    },

    {

      "fullUrl": "https://mdrfhirapi.mdronline.net/Procedure/1528-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "resource": {

        "resourceType": "Procedure",

        "id": "1528-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

        "meta": {

          "extension": [
```

```json
      {
        "url": "http://hl7.org/fhir/StructureDefinition/instance-name",
        "valueString": "DXA Femur-L ArMass BMD Example"
      },
      {
        "url": "http://hl7.org/fhir/StructureDefinition/instance-description",
        "valueMarkdown": "DXA Femur-L ArMass BMD Example"
      }
    ],
    "profile": [
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-procedure"
    ]
  },
  "text": {
    "status": "generated",
    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Procedures Details</div>"
  },
  "identifier": [
    {
      "value": "1528"
    }
  ],
  "status": "completed",
  "code": {
    "coding": [
```

```
        {

          "system": "http://snomed.info/sct",

           "code": "80954-1"

        }

      ]

    },

    "subject": {

      "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "display": "Bosco Lucien "

    },

    "performedDateTime": "2022-03-09",

    "performer": [

      {

        "actor": {

          "reference": "Practitioner/14"

        }

      }

    ]

  },

  "search": {

    "mode": "match"

  }

},

{

    "fullUrl": "https://mdrfhirapi.mdronline.net/Procedure/1527-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
```

```json
"resource": {

 "resourceType": "Procedure",

 "id": "1527-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

 "meta": {

  "extension": [

   {

     "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

     "valueString": "Capillary refill Time Nail Bed Example"

   },

   {

     "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

     "valueMarkdown": "Capillary refill Time Nail Bed Example"

   }

  ],

  "profile": [

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

  ]

 },

 "text": {

  "status": "generated",

  "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Procedures Details</div>"

 },

 "identifier": [

  {

    "value": "1527"
```

```
    }

   ],

   "status": "completed",

   "code": {

    "coding": [

     {

       "system": "http://snomed.info/sct",

       "code": "44963-7"

     }

    ]

   },

   "subject": {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "display": "Bosco Lucien "

   },

   "performedDateTime": "2022-01-26",

   "performer": [

    {

      "actor": {

       "reference": "Practitioner/14"

      }

    }

   ]

  },

  "search": {
```

```
      "mode": "match"

    }

  },

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/Procedure/1535-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

    "resource": {

      "resourceType": "Procedure",

      "id": "1535-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "meta": {

        "extension": [

          {

            "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

            "valueString": "Pulse intensity Palpation Example"

          },

          {

            "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

            "valueMarkdown": "Pulse intensity Palpation Example"

          }

        ],

        "profile": [

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

        ]

      },

      "text": {

        "status": "generated",
```

```json
    "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Procedures Details</div>"
  },
  "identifier": [
   {
     "value": "1535"
   }
  ],
  "status": "completed",
  "code": {
   "coding": [
    {
      "system": "http://snomed.info/sct",
      "code": "44974-4"
     }
   ]
  },
  "subject": {
   "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",
   "display": "Bosco Lucien "
  },
  "performedDateTime": "2022-01-26",
  "performer": [
   {
     "actor": {
       "reference": "Practitioner/14"
```

```
        }

      }

    ]

  },

  "search": {

   "mode": "match"

  }

 },

 {

  "fullUrl": "https://mdrfhirapi.mdronline.net/Procedure/1534-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7",

  "resource": {

   "resourceType": "Procedure",

   "id": "1534-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

   "meta": {

    "extension": [

     {

       "url": "http://hl7.org/fhir/StructureDefinition/instance-name",

       "valueString": "EKG impression Example"

     },

     {

       "url": "http://hl7.org/fhir/StructureDefinition/instance-description",

       "valueMarkdown": "EKG impression Example"

     }

    ],

    "profile": [
```

```
          "http://hl7.org/fhir/us/core/StructureDefinition/us-core-procedure"

   ]

  },

  "text": {

   "status": "generated",

   "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Procedures Details</div>"

  },

  "identifier": [

   {

     "value": "1534"

   }

  ],

  "status": "completed",

  "code": {

   "coding": [

    {

      "system": "http://snomed.info/sct",

      "code": "8601-7"

    }

   ]

  },

  "subject": {

   "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

   "display": "Bosco Lucien "

  },
```

```json
      "performedDateTime": "2022-01-26",

      "performer": [

        {

          "actor": {

            "reference": "Practitioner/14"

          }

        }

      ]

    },

    "search": {

      "mode": "match"

    }

  }

 ]

}
```

Provenance

US Core Provenance Profile

GET https://[Base URL]/Provenance/{id}

Example: https://mdrfhirapi.mdronline.net/Provenance/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```json
{

  "resourceType": "Provenance",

  "id": "70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

  "meta": {

    "lastUpdated": "2022-12-05T01:25:45Z",

    "profile": [
```

```json
      "http://hl7.org/fhir/us/core/StructureDefinition/us-core-provenance"

   ]

},

"target": [

 {

   "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

 },

 {

   "reference": "Practitioner/14"

 },

 {

   "reference": "Location/17"

 },

 {

   "reference": "Organization/1"

 },

 {

   "reference": "AllergyIntolerance/1677-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

 },

 {

   "reference": "AllergyIntolerance/1675-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

 },

 {

   "reference": "AllergyIntolerance/1676-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

 },
```

```
{

  "reference": "AllergyIntolerance/1679-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "AllergyIntolerance/1678-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "AllergyIntolerance/1680-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "CarePlan/11470-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Encounter/7092-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "CareTeam/7076-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Encounter/7076-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "RelatedPerson/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{
```

```
  "reference": "CareTeam/7077-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Encounter/7077-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "CareTeam/7078-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Encounter/7078-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "CareTeam/7079-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Encounter/7079-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "CareTeam/7080-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Encounter/7080-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "CareTeam/7083-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
```

```
    },
    {
      "reference": "Encounter/7083-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Condition/11415-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Condition/11417-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Condition/11419-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Condition/11481-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Encounter/7086-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Condition/11497-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Condition/11469-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
```

```
{

  "reference": "Condition/11470-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Condition/11443-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Condition/11456-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Encounter/7081-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Condition/11444-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Condition/11482-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Condition/11454-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Encounter/7082-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{
```

```
    "reference": "Condition/11455-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  {

    "reference": "Encounter/7074-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  {

    "reference": "Device/12-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  {

    "reference": "DiagnosticReport/7074-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  {

    "reference": "Encounter/R7074-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  {

    "reference": "DiagnosticReport/7075-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  {

    "reference": "Encounter/R7075-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  {

    "reference": "DiagnosticReport/7101-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  {

    "reference": "Encounter/R7101-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
```

```
    },
    {
        "reference": "DocumentReference/7074-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
        "reference": "DocumentReference/7075-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
        "reference": "Encounter/7075-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
        "reference": "DocumentReference/7076-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
        "reference": "DocumentReference/7077-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
        "reference": "DocumentReference/7078-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
        "reference": "DocumentReference/7079-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
        "reference": "DocumentReference/7080-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
```

```json
{

  "reference": "DocumentReference/7081-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "DocumentReference/7082-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "DocumentReference/7083-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "DocumentReference/7086-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "DocumentReference/7092-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "DocumentReference/7101-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Encounter/7101-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{

  "reference": "Goal/11479-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

{
```

```
      "reference": "Goal/11480-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    {

      "reference": "Immunization/1425-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    {

      "reference": "Immunization/1428-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    {

      "reference": "MedicationRequest/4912-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    {

      "reference": "MedicationRequest/4919-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    {

      "reference": "Encounter/7098-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    {

      "reference": "MedicationRequest/4918-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    {

      "reference": "MedicationRequest/4913-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    {

      "reference": "Procedure/1524-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
```

```
    },
    {
      "reference": "Procedure/1526-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Procedure/1529-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Procedure/1530-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Procedure/1531-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Procedure/1532-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Procedure/1533-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Procedure/1537-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
    {
      "reference": "Procedure/1527-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"
    },
```

```json
    {

      "reference": "Procedure/1528-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    {

      "reference": "Procedure/1534-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    {

      "reference": "Procedure/1535-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    {

      "reference": "Procedure/1536-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    },

    {

      "reference": "Procedure/1525-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    }

  ],

  "recorded": "2022-12-04T08:25:49Z",

  "agent": [

    {

      "type": {

        "coding": [

          {

            "system": "http://terminology.hl7.org/CodeSystem/provenance-participant-type",

            "code": "author",

            "display": "Author"
```

```json
        }
      ],
      "text": "Author"
    },
    "who": {
      "reference": "Organization/1",
      "display": "TechSoft, Inc. DBA Medical Systems"
    },
    "onBehalfOf": {
      "reference": "Practitioner/14",
      "display": "Dr.Max Burger"
    }
  },
  {
    "type": {
      "coding": [
        {
          "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-provenance-participant-type",
          "code": "transmitter",
          "display": "Transmitter"
        }
      ],
      "text": "Transmitter"
    },
    "who": {
```

```
      "reference": "Practitioner/14",

      "display": "Dr.Max Burger"

    },

    "onBehalfOf": {

      "reference": "Organization/1",

      "display": "TechSoft, Inc. DBA Medical Systems"

    }

  }

 ]

}
```

Smoking Status

US Core Smoking Status Observation Profile

GET https://[Base URL]/Observation?category=social-history&date=[YYYY-MM-DD]&patient={id}

Example: https://mdrfhirapi.mdronline.net/Observation?category=social-history&date=2022-11-29T11:12:48Z&patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",

  "meta": {

    "lastUpdated": "2022-12-05T01:22:46Z"

  },

  "type": "searchset",

  "total": 1,

  "link": [

    {
```

```json
    "relation": "self",

    "url": "https://mdrfhirapi.mdronline.net/Observation?patient=70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7&category=social-history"

  }

 ],

 "entry": [

  {

    "fullUrl": "https://mdrfhirapi.mdronline.net/Observation/H0P260-70a867d3-31a3-4dfe-b0f2-
55ee354ff4f7-s-h-",

    "resource": {

     "resourceType": "Observation",

     "id": "H0P260-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-s-h-",

     "text": {

      "status": "generated",

      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Social History</div>"

     },

     "status": "final",

     "category": [

      {

       "coding": [

        {

         "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-tags",

         "code": "sdoh",

         "display": "SDOH"

        }

       ]
```

```json
      },
      {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/observation-category",
            "code": "survey",
            "display": "Survey"
          }
        ]
      },
      {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/observation-category",
            "code": "social-history",
            "display": "Social History"
          }
        ],
        "text": "Tobacco smoking status"
      }
    ],
    "code": {
      "coding": [
        {
          "system": "http://loinc.org",
```

```json
      "code": "72166-2",

      "display": "Tobacco smoking status"

    }

  ],

  "text": "Tobacco smoking status"

},

"subject": {

  "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

},

"effectiveDateTime": "2022-11-29T11:12:48Z",

"valueQuantity": {

  "value": 3

},

"performer": [

  {

    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

  },

  {

    "reference": "Practitioner/14"

  }

 ]

},

"search": {

 "mode": "match"

}
```

```
    }

  ]

}
```

Unique Device Identifier(s) for Patient's Implantable Device(s)

US Core ImplantableDevice Profile

GET https://[Base URL]/Device?patient={id}

Example: https://mdrfhirapi.mdronline.net/Device?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```
{

  "resourceType": "Bundle",

  "id": "bundle-search-result",

  "meta": {

    "lastUpdated": "2022-12-04T12:32:10Z"

  },

  "type": "searchset",

  "total": 1,

  "link": [

    {

      "relation": "self",

      "url": "https://mdrfhirapi.mdronline.net/Device?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

    }

  ],

  "entry": [

    {

      "fullUrl": "https://mdrfhirapi.mdronline.net/Device/12-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

      "resource": {
```

```json
    "resourceType": "Device",

    "id": "12-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "meta": {

      "profile": [

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

      ]

    },

    "text": {

      "status": "generated",

      "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Implantable defibrillator, device (physical object)</div>"

    },

    "identifier": [

      {

        "value": "12"

      }

    ],

    "udiCarrier": [

      {

        "deviceIdentifier": "43069338026389",

        "carrierHRF": "(01)43069338026389(11)000302(17)250317(10)1134(21)842026117977"

      }

    ],

    "status": "inactive",

    "distinctIdentifier": "43069338026389",

    "manufactureDate": "2000-03-02",
```

```json
      "expirationDate": "2025-03-17",

      "lotNumber": "1134",

      "serialNumber": "842026117977",

      "deviceName": [

       {

         "name": "Implantable defibrillator, device (physical object)",

          "type": "udi-label-name"

       }

      ],

      "type": {

       "coding": [

        {

          "system": "http://snomed.info/sct",

           "code": "72506001",

           "display": "Implantable defibrillator"

         }

       ],

       "text": "Implantable defibrillator"

      },

      "patient": {

       "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7"

      }

    }

  }

]
```

}

Vital Signs

FHIR Core VitalSigns Profile

GET https://[Base URL]/Observation?category=vital-signs&date=[YYYY-MM-DD]&patient={id}

Example: https://mdrfhirapi.mdronline.net/Observation?category=vital-signs&date=2022-11-22T06:30:00Z&patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7

Response: 200 (Success)

```json
{
  "resourceType": "Bundle",
  "id": "bundle-search-result",
  "meta": {
    "lastUpdated": "2022-12-05T01:23:51Z"
  },
  "type": "searchset",
  "total": 1,
  "link": [
    {
      "relation": "self",
      "url": "https://mdrfhirapi.mdronline.net/Observation?patient=70a867d3-31a3-4dfe-b0f2-55ee354ff4f7&code=&category=v-s"
    }
  ],
  "entry": [
    {
      "fullUrl": "https://mdrfhirapi.mdronline.net/Observation/11436-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-v-s-",
      "resource": {
```

```json
"resourceType": "Observation",

"id": "11436-70a867d3-31a3-4dfe-b0f2-55ee354ff4f7-v-s-",

"meta": {

  "profile": [

    "http://hl7.org/fhir/us/core/StructureDefinition/us-core-blood-pressure"

  ]

},

"text": {

  "status": "generated",

  "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">Observation : BloodPressure</div>"

},

"status": "final",

"category": [

  {

    "coding": [

      {

        "system": "http://terminology.hl7.org/CodeSystem/observation-category",

        "code": "vital-signs",

        "display": "Vital Signs"

      }

    ],

    "text": "Vital Signs"

  }

],

"subject": {
```

```json
    "reference": "Patient/70a867d3-31a3-4dfe-b0f2-55ee354ff4f7",

    "display": "Bosco Lucien"

  },

  "effectiveDateTime": "2022-11-22T06:30:00Z",

  "issued": "2022-11-22T06:30:00Z",

  "code": {

   "coding": [

     {

       "system": "http://loinc.org",

       "code": "85354-9",

       "display": "Blood pressure panel with all children optional"

     }

   ],

   "text": "Blood pressure systolic and diastolic"

  },

  "component": [

   {

     "code": {

      "coding": [

        {

          "system": "http://loinc.org",

          "code": "8480-6",

          "display": "Systolic blood pressure"

        }

      ],
```

```json
      "text": "Systolic blood pressure"

    },

    "valueQuantity": {

      "value": 129,

      "unit": "mmHg",

      "system": "http://unitsofmeasure.org",

      "code": "mm[Hg]"

    }

  },

  {

    "code": {

      "coding": [

        {

          "system": "http://loinc.org",

          "code": "8462-4",

          "display": "Diastolic blood pressure"

        }

      ],

      "text": "Diastolic blood pressure"

    },

    "valueQuantity": {

      "value": 85,

      "unit": "mmHg",

      "system": "http://unitsofmeasure.org",

      "code": "mm[Hg]"
```

```
            }

          }

        ]

      },

    "search": {

      "mode": "match"

      }

    }

  ]

}
```

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