

Quality Measure & Interoperability Solutions



The Dynamic FHIR API makes EHR patient data readily available and ignites interoperability using the HL7® FHIR® standard. FHIR is based on common web technology using a RESTful protocol.

For 2015 CEHRT, an API with access to patient data is required for "Base EHR" certification. For 2018, providers will need 2015 Edition Cures Update software Certified for:

- 170.315(g)(7) : App access - patient selection
- 170.315(g)(9) : Application access - all data
- 170.315(g)(10): Bulk FHIR (Flat FHIR)

An API is mandatory to maximize MIPS/Quality Payment Program scoring and for MU 3. It is needed for "Provide Patient Access" in "Patient Electronic Access to Health Information" .

Features:

- Data consumed from version 2.1 CCDA
- Delivers XML or JSON to API client of your choice
- Retrieves all USCDiv1 data or a class of data (e.g. clinical notes, problems, labs)
- Dynamic FHIR API leverages FHIR R4 and SMART on FHIR Core Capabilities:

- ⇒ Launch Standalone Patient
- ⇒ Launch EHR Practitioner
- ⇒ Bulk FHIR with Backend Service Authorization

Dynamic Health IT
Quality Matters & Interoperability Matters

Home Secure Register API - Help

New User Registration

Please enter your credentials to Register

First Name

Last Name

Date Of Birth

Special Key

Patient ID

Confirm

Dynamic FHIR User Registration

Health Summary Patient: Alice Jones Newman
Previous Name: Alice
D.O.B: May 1, 1970 Sex: Female
Patient Detail

You can arrange the document to your preferences. Move sections by dragging them. Hide by closing. Use the TOC to review.

Code	Name	CodeSystem	Date	Narrative
36843-5	Chest X-Ray	LOINC	2015-08-23	Get a Chest X-Ray done on 08/23/2015 showing the Lower Respiratory Tract Structure.
93010	EKG	CPT	2015-06-23	Get an EKG done on 06-23-2015.
284215	Clindamycin 300mg	RXNORM	2015-06-23	Take Clindamycin 300mg three times a day as needed if pain does not subside. Schedule follow on visit with Neighborhood Physicians Practice on 07/01/2015.
11429006	Consultation	SNOMED-CT	2015-07-01	Neighborhood Physicians Practice on 07/01/2015.
24367-6	Urinalysis macro (spic/ck) panel.	LOINC	2015-06-29	

Assessments

- The patient was found to have fever and Dr Davis is suspecting Anemia based on the patient history. So Dr Davis asked the patient to closely monitor the temperature and blood pressure and get admitted to Community Health Hospitals if the fever does not subside within a day.

CCDA v2.1 as shown in ConnectEHR

FHIR Client Test Application

Filter Date From: 01/01/2017 Date To: 07/31/2017

```

<Bundle xmlns="http://hl7.org/fhir">
  <id value="359b7372-2d22-4bb2-93cb-d97888dec759" />
  <entry>
    <fullUrl value="/fhir/medication/" />
    <resource>
      <MedicationStatement>
        <id value="rx-1" />
        <medicationCodeableConcept>
          <coding>
            <system value="2.16.840.1.113883.6.88" />
            <code value="399990" />
            <display value="RXNORM" />
          </coding>
          <text value="Ceftriaxone 100 MG/ML " />
        </medicationCodeableConcept>
        <effectivePeriod>
          <start value="2015-06-22" />
          <end value="2015-06-30" />
        </effectivePeriod>
      </MedicationStatement>
    </resource>
  </entry>
  <entry>
    <fullUrl value="/fhir/medication/" />
    <resource>
      <MedicationStatement>
        <id value="rx-2" />
        <medicationCodeableConcept>
    
```

XML Output in DHIT Application

Easy access

Through a browser-based user interface, the Dynamic FHIR API offers a user-friendly, secure path to activation. After one-time activation, patient data is available without signing into a web portal. Behind-the-scenes, OAuth 2.0 provides secure authorization.

Cooperative development using the API will enable patients to consolidate data in a single location without the hassle of multiple logins and limitations of data as presented in a user portal.

FHIR Resources from any v2.1 CCDA

FHIR resources are created in DHIT's server from the latest ONC-certified CCDA r2.1. FHIR resources are mapped to sections in the Common Clinical Dataset and reachable by URL. Health IT applications can make read-only data requests for patient health information with a robust CCDA as the basis. CCDAs can be generated directly from your EMR, or received using protocols such as Direct or TCP/IP.

XML or JSON to any API Client

Developers can use a wide range of API clients, from Post-Man© to DHIT's own display client, to deliver patient data. Requests are made against Dynamic FHIR API for all patient data and subsets by date range and section. The FHIR Server handles Errors & has valid Exception methods providing an HTTP status code and Meaningful messages in both JSON/XML format. DHIT's FHIR API Client (*shown at left*) provides a clean section-mapped view, with a full listing of FHIR resources available.