

# 2020-05 DaVinci PDex Drug Formulary

## Submitting WG/Project/Implementer Group

Pharmacy WG / DaVinci

## Track Resources

- Implementation Guide: <http://build.fhir.org/ig/HL7/davinci-pdex-formulary/>
- Hosted Reference Implementations
  - Server: <https://davinci-drug-formulary-ri.logicahealth.org/fhir>
  - Client: <https://davinci-pdex-formulary-client.logicahealth.org>
- Reference Implementation Code
  - Server: <https://github.com/HL7-DaVinci/drug-formulary-ri>
  - Sample Data: <https://github.com/HL7-DaVinci/pdex-formulary-sample-data>
  - Client: <https://github.com/HL7-DaVinci/pdex-formulary-client>
- Test Scripts
  - [Touchstone\\_DaVinci\\_PDexFormulary\\_Scripts](#)
- HIMSS 2020
  - [Sub-Scenario Step #2b-d - Drug Formulary](#)

## General CMS Connectathon Participant Information:

- Recording: [PDex Formulary Track Orientation Recording\\_041720.mp4](#)
- Slides: [PDex Drug Formularies Track 2020-05.pptx](#)

## Justification and Objectives

This project defines a FHIR interface to a health insurer's drug formulary information for patients/consumers. A drug formulary is a list of brand-name and generic prescription drugs a health insurer agrees to pay for, at least partially, as part of health insurance coverage. Drug formularies are developed based on the efficacy, safety and cost of drugs. The primary [use cases](#) for this FHIR interface enable consumers/patients to understand the costs and alternatives for drugs that have been prescribed, and to compare their drug costs across different insurance plans. The [drug formulary IG](#) was successfully balloted for Standard for Trial Use (STU) ballot, and is undergoing final reconciliation.

The objectives of the hackathon are:

- Test and gather feedback on the design and implementation feasibility of the drug formulary model and its FHIR Implementation Guide.
- Identify areas of improvement and expansion of the drug formulary model to future use cases.
- Foster mindshare and innovation ideas on potential applications using the drug formulary

**This track will use the R4 version of FHIR.**

## Clinical input requested (if any)

None.

## Related tracks

Da Vinci Payer Data Exchange

Da Vinci PDex Plan-Net

## Proposed Track Lead

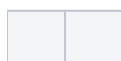
[Saul Kravitz \(saul@mitre.org\)](mailto:saul@mitre.org).

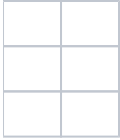
[David Hill \(dwhill@mitre.org\)](mailto:dwhill@mitre.org).

## Expected participants

Potential producers (health plans) and consumers (3<sup>rd</sup> party application developers) of formulary data.

- Josh Lamb (UPMC)
- Barbara Valeno (Aetna)
- Usha Ramaswamy (Aetna)
- Siarhei Bartoshyk (Cigna)





## Track Orientation

A webinar will be hosted on TBD to share further participation information about this track.

The track kickoff presentation from 11/15 can be see here:

- [PPT](#)
- [Video](#)

## Local Requester (Client)

An application that can query a FHIR server implementing the Formulary IG in support of provider or consumer use cases.

### Available Clients

- Postman Collection for Scenarios listed below: <https://github.com/saulakravitz/formulary-postman-collection>
- Initial Web GUI (Ruby):
  - Code: <https://github.com/HL7-DaVinci/pdex-formulary-client>
  - Deployed Web-Client: <https://davinci-pdex-formulary-client.logicahhealth.org/>
    - This web-client has been tested with the reference server described below, and allows browsing of the loaded resources, and support for scenarios 1 and 2

## Drug Formulary (Server)

A server that makes drug formulary data from a payers plan(s) available.

### Available Servers

- Reference Implementation: <https://davinci-drug-formulary-ri.logicahhealth.org/fhir>
  - This is a HAPI server
  - The dataset is a subset of 5 Carefirst QHP Drug Formularies
- Sample Data Generation code: <https://github.com/HL7-DaVinci/pdex-formulary-sample-data>
- Server Code and Docker Image: <https://github.com/HL7-DaVinci/drug-formulary-ri> (based on HAPI)

## Scenarios

See the [use cases](#) section of the IG.

### Scenario 1 : Medication Copays under Insurance Plan

Action: Query Formulary content for list of medications

Precondition: Determine list of medication for the patient

Success Criteria: Display medication list with copay information to patient.

Bonus point: None

### Scenario 2 : Shopping for Health Plans

Action: Query formulary content of multiple drug formularies for a list of medications

Precondition: Determine list of medication for the patient

Success Criteria: Compare costs for medication list for multiple insurance plans

Bonus point: None

## TestScript(s)

Touchstone Tests are found at: [Touchstone\\_DaVinci\\_PDexFormulary\\_Scripts](#)

Please create a Touchstone user account (free) associated to the DaVinci organization if you have not already in order to run your systems through the test scripts.

## Security and Privacy Considerations

No security or privacy considerations. Data is not patient-related.

