CAREWare Features in Focus:

Importing data through a Fast Healthcare Interoperability Resource (FHIR)

Application programming interface (API)

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What is a FHIR API?

- From the Office of the National Coordinator (ONC) for HIT:

  FHIR stands for Fast Healthcare Interoperability Resources, a next-generation interoperability standard created by the standards development organization Health Level 7 (HL7). FHIR is designed to enable health data, including clinical and administrative data, to be quickly and efficiently exchanged.

- Uses up-to-date authentication security and encryption standards to make the "hand shake" between the EMR (the data source/server) and the client (the receiver of the data, such as CAREWare)

- Allows for the handling of any number of standardized codesets such as ICD-10 (diagnoses), RxNorm (medications), SNOMED-CT (procedures/services), LOINC (lab tests)

Why use FHIR?

- Direct connection to EMR eliminates need to create intermediary CSV files; greatly reduces hand and duplicate data entry

- Standardized codes for demographics, labs, medications, and services that are routinely used in EMRs will be automatically mapped into CAREWare in the FHIR transmission.

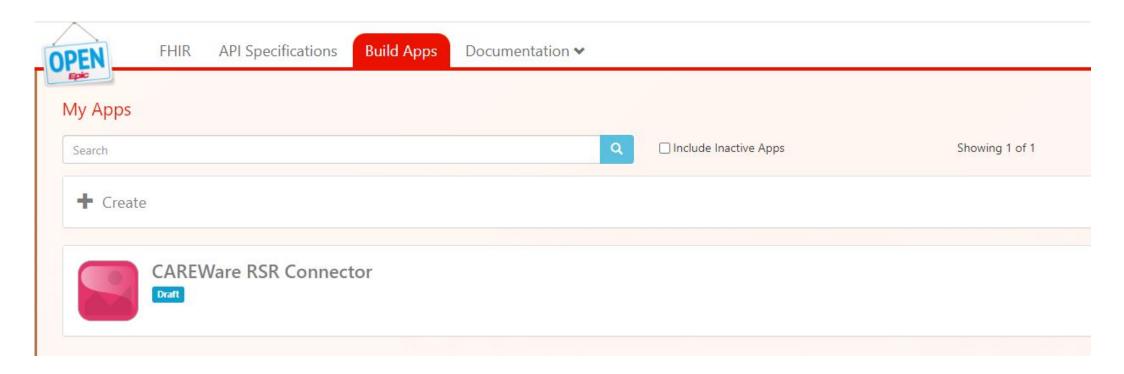# Hl7.org/fhir

FHIR API Process in CAREWare

- ***Connect to EMR***:
    CAREWare will create a FHIR app called "CAREWare RSR Connector" on your EMR's FHIR portal. You can check with the CAREWare helpdesk if we have made one yet for your EMR

- ***Request data*** for specific patients/clients and specific information on those individuals (using some client id or perhaphs in bulk (e.g. all HIV positive clients with a visit in the last year)

- ***Data are converted*** into a PDI formatted file and mapped into CAREWare

CAREWare Demo!!

- Using a connection to the EPIC "sandbox" (test data only!)

How do you activate FHIR in your EMR?

- Depends on...
  - Your clinic's administrative approval process
  - Potential costs to activate the FHIR service in your EMR
  - The particular EMR in use (this may take time to activate and may differ by EMR).

- The CAREWare PDI FHIR datasource is scheduled for beta testing in January of 2023 and production in June.

Limitations/Issues

- What proportion of RSR data is available in the EMR?
  - Variables including federal poverty level, housing status may not be recorded at all or with any consistency

- Outstanding work required to best understand how to map clinical encounters as recorded in the EMR with Ryan White eligible service categories

- Will require ongoing administrative and technical oversight

FHIR resource links

https://www.healthit.gov/topic/standards-technology/standards/fhir-fact-sheets

http://www.hl7.org/fhir/

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