

# Multiple Chronic Conditions (MCC) e-Care Plan Collaborative Site

## Welcome!

This is the Collaborative Site for the [Multiple Chronic Conditions \(MCC\) e-Care Plan Initiative](#) ("MCC e-Care Plan Project"), a joint project between the Agency for Healthcare Research and Quality (AHRQ) and the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). To return to the project landing page, visit [ecareplan.ahrq.gov](http://ecareplan.ahrq.gov).

## Project Objectives

The MCC e-Care Plan Project aims to:

- Promote the interoperable collection, use, and sharing of comprehensive, person-centered health and social data across settings;
- Facilitate coordinated, person-centered care planning approaches that integrate the full care team (including the patient) across settings; and
- Build data capacity to conduct pragmatic Patient Centered Outcomes Research (PCOR).

## Project Deliverables

All project deliverables are open-source and freely available.

1. **Data elements, value sets, clinical information models (CIM), and FHIR mappings** to enable standardized transfer of data across health and research settings for chronic kidney disease (CKD), type 2 diabetes (T2D), cardiovascular disease (CVD), chronic pain, and long-term COVID.
2. **HL7® Fast Health Interoperability Resource (FHIR®) Implementation Guide** based on defined use cases and standardized MCC data elements, balloted for trial use. The IG defines FHIR R4 profiles, structures, extensions, transactions, and value sets needed to represent, query for, and exchange Care Plan information to support care planning for people with multiple chronic conditions (MCC).
3. **Pilot tested SMART on FHIR eCare Planning Applications for clinicians, patients, and caregivers** to use that integrate with the EHR to pull, share, and display key patient data to support care for people with multiple chronic conditions. The applications will be developed to align with emerging industry standards with the goal of creating publicly available, scale-able artifacts and services that could be used nationwide.

### Quick Links

[Project Deliverables](#)

[HL7 MCC eCare plan page](#)

[MCC eCare Plan Implementation Guide](#)

[MCC eCare Plan Github](#)

[Long COVID \(PASC\) Domain and Caregiver Considerations](#)

[Cardiovascular Disease \(CVD\) Domain](#)

[Pain with Opioid Use Disorder \(OUD\) Domain](#)

[Type 2 Diabetes Mellitus \(T2DM\) Domain](#)

[NIDDK Chronic Kidney Disease eCare Plan Project](#)

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## HL7 Patient Care Work Group Meetings

All upcoming MCC eCare plan HL7 work group meeting dates and information can be found [here](#).

To get the information from the June 24, 2020 stakeholder kick-off please follow the link [here](#).

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## Testing Opportunities

### Upcoming HL7 FHIR IG testing tracks

- September 2022 Connectathon

### Previous HL7 FHIR IG testing tracks

- May 2022 Care Planning Track: [2022-05 Care Planning Track](#)
  - January 2022 Care Planning Track: [2022-01 Care Planning Track](#)
  - January 2021 Care Coordination Track: [2021-01 Care Coordination Track](#)
  - September 2020 Care Coordination Track: [2020-09 Care Coordination Track](#)
  - May 2020 Care Coordination Track: [2020-05 Care Coordination Track](#)
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## Project Deliverable Timeline

Deliverable	Description	Expected Start	Expected End	Status	Link
MCC Clinical Information Model for CKD	Clinical concept with identified and specified data elements, attributes, vocabularies, and FHIR mappings that will enable standardized transfer of CKD data across health settings	Q4 2019	Q2 2020	Complete	<a href="#">MCC Clinical Information Model (CIM) Analysis and Development</a>
MCC Clinical Information Model for CVD, T2D, and OUD	Clinical concept with identified and specified data elements, attributes, vocabularies and FHIR mappings that will enable standardized transfer of CVD, T2D, OUD data across health settings	Q2 2021	Q3 2021	Complete	<a href="#">2021_MCC Data Element Spreadsheet with Value Sets_static</a>
Data elements for long COVID	Clinical concept with identified and specified data elements, attributes, vocabularies and FHIR mappings that will enable standardized transfer of long COVID data across health settings	Q4 2021	Q2 2022	Complete	<a href="#">Symptoms related to long COVID analysis spreadsheet (Working Document)</a>
SMART on FHIR App	An open-source clinician and patient facing SMART on FHIR-based e-care plan application for managing persons with MCC	Q2 2020	Q3 2021	Completed (iterations may take place based on pilot feedback)	<a href="#">Patient and clinician facing app MccCareplan</a>
Pilot Lessons Learned	A report that documents the results from testing the SMART on FHIR application including lessons learned and recommended app updates.	Q2 2021	Q3 2022	In progress	Link will be posted at a future date
Implementation Guide	An HL7 implementation guide for MCC starting with CKD value set	Q2 2020	Q3 2022	Updates in progress	<a href="#">HL7 MCC eCare plan FHIR IG page</a>

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