



Electronic Clinical Decision Support Interventions for Prescribing Opioids for Chronic Pain

COAP Meeting

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The Office of the National Coordinator for
Health Information Technology



ONC Opioid Coordination & Stakeholder Engagement

ONC coordinates and engages with federal and non-federal stakeholders on health IT and opioids. Examples include:

- Advancing available standards for health IT integration through engagement with standards development organizations (NCPDP, HL7 etc.)
- Engaging with stakeholders to inform recommendations on provider burden reduction specific to EPCS and PDMP as part of provider workflow
- Technical Assistance for PDMP and SUD/ODU topics to state Medicaid through the State Innovation Models (SIM)

OD2A Strategies and alignment with ONC's Role

- OD2A Strategy 6: Establishing Linkages to Care
 - ONC helps advance available standards to support the care continuum
 - Standards based electronic data exchange between EHRs, HIEs, and PDMPs could improve transitions of care and care coordination between primary care, SUD treatment centers, behavioral health, and social services
- OD2A Strategy 7: Providers and Health Systems Support
 - ONC works to advance clinical decision support (CDS) standards and functionality in certified EHRs into clinical workflow
 - ONC and CDC continue to collaborate to translate CDC Guideline for Prescribing Opioids for Chronic Pain and to integrate electronic CDS into clinical workflow

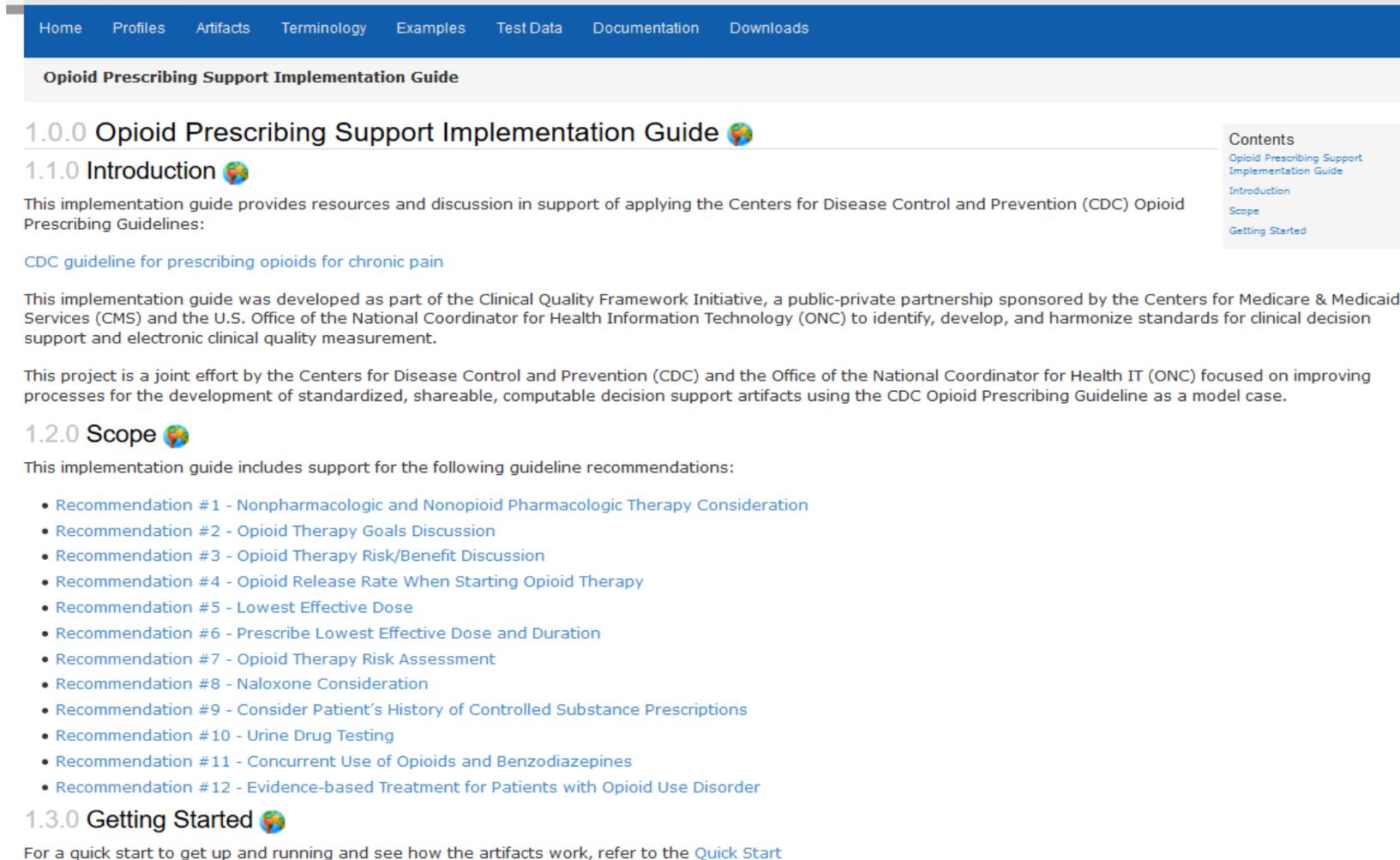
Project Overview – CDS for CDC Guideline

- Goal: provide point-of-care support for [CDC Guideline for Prescribing Opioids for Chronic Pain](#)
- Process: Progress from narrative to executable CDS
- CDC-sponsored effort. Contributors: ONC, AHRQ, Yale, Indiana University, Duke, Security Risk Solutions, Epic, Cerner, and many others.
- Approach:
 - Leverage health IT standards for representing clinical knowledge & integrating into EHRs
 - Pilot with multiple healthcare organizations and EHR products

Utilization of Standards-Based Dissemination

- **EHR data retrieval: HL7 FHIR**
 - FHIR = Fast Healthcare Interoperability Resources
- **Guideline knowledge representation: HL7 CQL**
 - CQL = Clinical Quality Language
- **EHR workflow integration: HL7 CDS Hooks**
- **EHR app integration: HL7 SMART**
 - SMART = Substitutable Medical Apps, Reusable Technologies
- **Key enabler: EHR vendor support for these standards**

Artifacts for all 12 recommendation statements are available on the Opioid Prescribing Support IG



The screenshot shows a web page for the "Opioid Prescribing Support Implementation Guide". At the top is a navigation bar with links: Home, Profiles, Artifacts, Terminology, Examples, Test Data, Documentation, and Downloads. Below the navigation bar is a header for the "Opioid Prescribing Support Implementation Guide". The main content area is titled "1.0.0 Opioid Prescribing Support Implementation Guide" and includes a sub-section "1.1.0 Introduction". The introduction text states that the guide provides resources and discussion in support of applying the CDC Opioid Prescribing Guidelines. It mentions that the guide was developed as part of the Clinical Quality Framework Initiative, a public-private partnership sponsored by the Centers for Medicare & Medicaid Services (CMS) and the U.S. Office of the National Coordinator for Health Information Technology (ONC). It also notes that the project is a joint effort by the CDC and the Office of the National Coordinator for Health IT (ONC) focused on improving processes for the development of standardized, shareable, computable decision support artifacts using the CDC Opioid Prescribing Guideline as a model case. A "Contents" sidebar on the right lists: Opioid Prescribing Support Implementation Guide, Introduction, Scope, and Getting Started. Below the introduction, there is a link to the "CDC guideline for prescribing opioids for chronic pain". A section titled "1.2.0 Scope" lists 12 recommendation statements. A final section titled "1.3.0 Getting Started" includes a link to a "Quick Start" document.

Home Profiles Artifacts Terminology Examples Test Data Documentation Downloads

Opioid Prescribing Support Implementation Guide

1.0.0 Opioid Prescribing Support Implementation Guide

1.1.0 Introduction

This implementation guide provides resources and discussion in support of applying the Centers for Disease Control and Prevention (CDC) Opioid Prescribing Guidelines:

[CDC guideline for prescribing opioids for chronic pain](#)

This implementation guide was developed as part of the Clinical Quality Framework Initiative, a public-private partnership sponsored by the Centers for Medicare & Medicaid Services (CMS) and the U.S. Office of the National Coordinator for Health Information Technology (ONC) to identify, develop, and harmonize standards for clinical decision support and electronic clinical quality measurement.

This project is a joint effort by the Centers for Disease Control and Prevention (CDC) and the Office of the National Coordinator for Health IT (ONC) focused on improving processes for the development of standardized, shareable, computable decision support artifacts using the CDC Opioid Prescribing Guideline as a model case.

1.2.0 Scope

This implementation guide includes support for the following guideline recommendations:

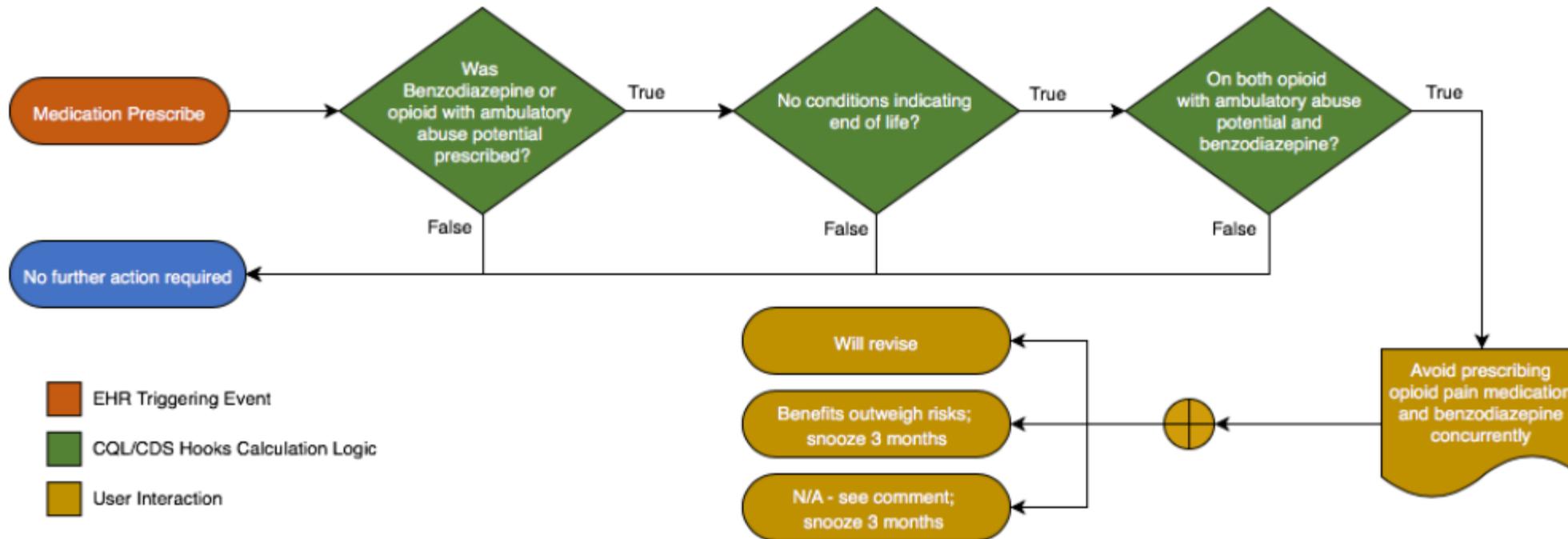
- [Recommendation #1 - Nonpharmacologic and Nonopioid Pharmacologic Therapy Consideration](#)
- [Recommendation #2 - Opioid Therapy Goals Discussion](#)
- [Recommendation #3 - Opioid Therapy Risk/Benefit Discussion](#)
- [Recommendation #4 - Opioid Release Rate When Starting Opioid Therapy](#)
- [Recommendation #5 - Lowest Effective Dose](#)
- [Recommendation #6 - Prescribe Lowest Effective Dose and Duration](#)
- [Recommendation #7 - Opioid Therapy Risk Assessment](#)
- [Recommendation #8 - Naloxone Consideration](#)
- [Recommendation #9 - Consider Patient's History of Controlled Substance Prescriptions](#)
- [Recommendation #10 - Urine Drug Testing](#)
- [Recommendation #11 - Concurrent Use of Opioids and Benzodiazepines](#)
- [Recommendation #12 - Evidence-based Treatment for Patients with Opioid Use Disorder](#)

1.3.0 Getting Started

For a quick start to get up and running and see how the artifacts work, refer to the [Quick Start](#)

<http://build.fhir.org/ig/cqframework/opioid-cds-r4/>

Example Workflow for Recommendation #11



- Clinicians should avoid prescribing opioid pain medication and benzodiazepines concurrently whenever possible
- Logic flow:
 - Patient is being prescribed opioids for chronic pain
 - Patient does not appear to be at end of life
 - If patient is prescribed opioid medication concurrently with benzodiazepine medication, provide recommendation to revise order

Utilizing Available Resources

Resource	Description
<u>Quick Start Guide</u>	A quick start to get up and running and see how the artifacts work. A guide for implementers to review
<u>Process Documentation</u>	For clinical informaticists interested in how the behavior for the artifacts was determined
<u>Integration Documentation</u>	An overview of how the artifacts are represented in the FHIR Clinical Reasoning resources
<u>Implementation Documentation</u>	A detailed description of how to implement the functionality with CDS Hooks calling into a FHIR Clinical Reasoning server
<u>Service Documentation</u>	A detailed description of how to implement the functionality with a Java-based CDS Hooks service

Next Steps You Can Take

- Share the resources (artifacts, code, etc) with health systems in your state. They can work with their EHR developer to establish these electronic CDS recommendations
- Artifacts for CDC Guideline recommendation statement #9
 - Possibility to enhance CDS if state policy allows PDMP data directly available within a health system's EHR
 - These health systems can run the developed artifacts against that data to test usability and feasibility
 - Alternatively, if PDMP data is accessed outside of the EHR, artifacts can still be implemented to remind prescribers to review the PDMP data at the point of care

Additional ONC Resources

- **ONC's Certified Health IT Product List (or CHPL)** is available online for users and developers alike to access information on health IT products and is available here for stakeholder's further use
 - <https://chpl.healthit.gov/#/search>
- **ONC Interoperability Standards Advisory** provides the industry with a single, public list of the standards and implementation specifications that can best be used to achieve a specific clinical health information interoperability purpose
 - <https://www.healthit.gov/standards-advisory>
- **ONC Health IT Playbook** provides information on how health IT plays a role in combatting the opioid epidemic in the US and solutions clinicians can use to address the problem
 - <https://www.healthit.gov/playbook/opioid-epidemic-and-health-it/>
- **State Innovation Model Resource Center** provides resources and tools for SIM states to support health IT innovation in care delivery
 - <https://www.healthit.gov/topic/innovation/state-innovation-model-resource-center>
- **Understanding the Value of Health IT Educational Module for Behavioral Health Providers (ONC, 2018)** provides links relating to MAT, opioids, and SUD (specifically slides 52-58)
 - www.healthit.gov/playbook/pdf/educational-module-Behavioral-Health-Providers.pdf



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