The Clinical Decision Support Innovation Collaborative

Making clinical decision support more valuable and meaningful to patients, clinicians, and healthcare systems

Project Overview and Goals

The **Clinical Decision Support Innovation Collaborative (CDSiC)** is part of AHRQ's Patient-Centered Outcomes Research (PCOR) Clinical Decision Support (CDS) Initiative. The CDSiC aims to advance **patient-centered clinical decision support (PC CDS)** to improve health outcomes for all patients. Through its **three Centers** (Operations, Stakeholder Community & Outreach, and Innovation), the CDSiC:

Uses CDS to transform the adoption and use of PCOR evidence in clinical practice.

Defines, coordinates, and informs short- and long-term goals related to PC CDS that respond to the current state of the healthcare ecosystem and patient demands.

Engages stakeholders to develop resources to advance PC CDS, define and recommend CDS measurement concepts, and test or evaluate PC CDS via demonstration projects.

Advancing PC CDS Through Products and Pilots

Since 2021, the CDSiC has been at the forefront of examining challenges and opportunities to advance PC CDS. To address identified challenges and drive meaningful progress, the CDSiC has developed and disseminated innovative products and implemented pilot projects across the **PC CDS lifecycle**.

Each year, the CDSiC identifies needs in the PC CDS stakeholder community, using the lessons from previous years to chart a course for its work. As it enters its fourth year, the **CDSiC is exploring a range of topics** including:

Use of Artificial Intelligence (AI) in PC CDS

Priorities for patients and clinicians when assessing PC CDS

Effective implementation of PC CDS in health systems and demonstrating the value of PC CDS

Challenges and opportunities related to patient-facing PC CDS

Key Accomplishments To Date

The CDSiC has engaged 200+ CDS stakeholders in discussions about the current state and future promise of PC CDS.

The CDSiC has synthesized over 1800 peer-reviewed and gray literature resources.

The CDSiC has developed 39 products that help advance the development, implementation, standardization, and measurement of PC CDS.

Read more about our accomplishments in our **reports from prior years** and keep up with the latest updates through our **newsletters**.

Get involved

AHRQ Agency for Healthcare Research and Quality

Clinical Decision Support Innovation Collaborative

Summary of CDSiC Products by Topic Area and Type

▼ WEB LINKS

Standards

Understanding PC CDS standards and priorities for future standards development

REPORTS
- Standards and Regulatory Frameworks Environmental Scan
    - Two-Page Factsheet: An Overview of Standards for PC CDS∗
- Advancing Standardized Representations for Patient Preferences to Support PC CDS
- Prioritizing Patient Preferences for Standardization to Support PC CDS∗
- Improving Interoperability of Patient Apps with the Health IT Ecosystem

Patient Trust, Engagement, and Preferences

Exploring factors contributing to trust in PC CDS, patient engagement throughout its lifecycle, and integration of patient preferences
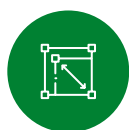
REPORTS
- Improving the Source Credibility of PC CDS Tools
- Integration of PC CDS Into Shared Decision Making
- Taxonomy of Patient Preferences
    - Infographic: Patient Preferences Are Essential to Bringing the Patient Into Focus∗
- Capturing Patient Preferences for PC CDS Within Clinician Workflows and Patient Lifeflows∗

GUIDES & TOOLS
- Methods for Involving End Users in PC CDS Co-Design
    - Chartbook: Involving End-Users in Co-Design of PC CDS∗
- An Introductory Handbook for Patient Engagement Throughout the PC CDS Lifecycle

BLOG
- Improving Patient-Centered Care with Decision Tools That Build Trust∗

Measurement

Examining measures to assess the impact of PC CDS on processes and outcomes

REPORTS
- Patient-Focused Outcome Measures for PC CDS
- Approaches to Measuring PC CDS Workflow and Lifeflow Impact
- Patient Prioritization of Measurement Areas for PC CDS∗
- Unified PC CDS Measurement Framework
- Real-World Experience in PC CDS Measurement Final Report∗

GUIDES & TOOLS
- PC CDS Performance Measurement Inventory and User Guide
- Inventory of Patient Preference Measurement Tools for PC CDS and Report∗

PROTOTYPES
- Quartz App to Support Medication Adherence: Usability and Feasibility Assessment∗
- PAIGE Chatbot for Patient-Clinician Communication: Usability and Utility Assessment∗

PC CDS Implementation

Providing resources and guidance that inform the implementation of PC CDS

REPORTS
- Exploring Challenges and Opportunities for Patient Engagement, Implementation, Adoption, and Scaling Through PC CDS Case Studies∗
- An Initial Taxonomy of Override Reasons for PC CDS Recommendations∗
- Key Factors and Considerations for Assessing the Value of Patient-Centered Clinical Decision Support∗
- Action Plan to Collect and Use Social Determinants of Health Data in PC CDS∗

GUIDES & TOOLS
- PC CDS Planning, Implementation, and Reporting Tool and User Guide
- PC CDS Planning and Reporting Tool and User Guide∗

PROTOTYPES
- Prototype PC CDS and PRO Performance Dashboard
- Prototype That Implements Best Practices for Presentation and Analysis of Selected Types of Patient-Generated Health Data

Use of Artificial Intelligence (AI) in PC CDS

Exploring the use of AI in transparent ways to scale PC CDS

REPORTS
- Patient and Caregiver Perspectives on Generative AI in PC CDS∗
- Landscape Assessment on the Use of AI to Scale PC CDS∗

BLOG
- Exploring How AI Can Enhance PC CDS∗

Legend
REPORTS: Key findings from environmental scans and/or qualitative data collection in a report format
GUIDES & TOOLS: Practical guides or tools that support design, implementation, or measurement of PC CDS
PROTOTYPE: Design specifications, requirements, and evaluation of PC CDS prototype applications developed
BLOG: A short opinion piece on a website or publication offering insights on PC CDS
∗ New products developed in the third or fourth year of the CDSiC Project

Access CDSiC products here