Moving Ahead with CDS

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The Office of the National Coordinator for
Health Information Technology

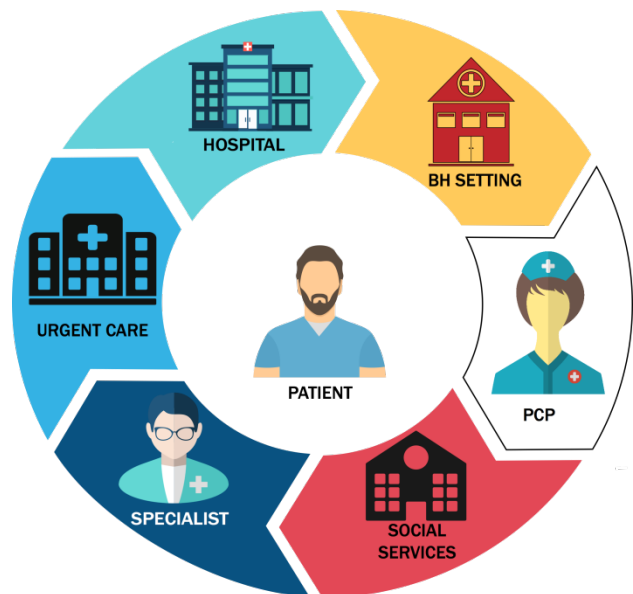# ONC Mission and Priorities

FEDERAL HEALTH IT MISSION

Improve the health and well-being of individuals and communities through the use of technology and health information that is accessible when and where it matters most.

2017-2018 ONC PRIORITIES

ONC will work to make health information more accessible and less silo'ed; reduce clinician burden; and support EHR usability under 21st Century Cures and MACRA.
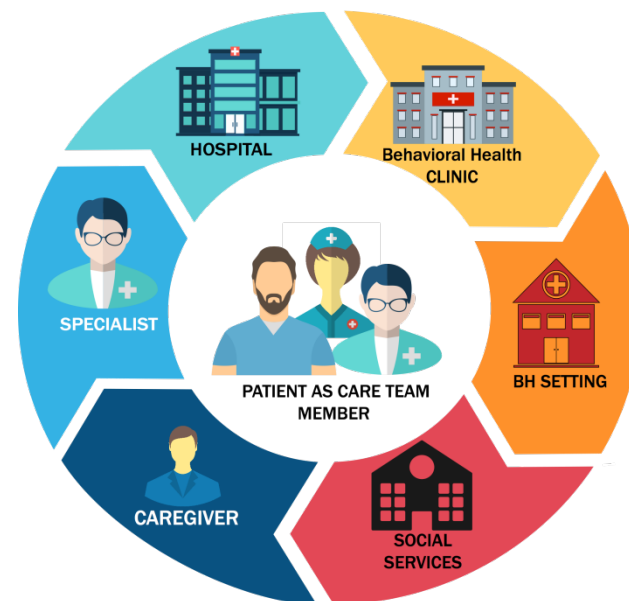
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Transforming Landscape: Shift to Value Based Care

Current Fee-For-Service

- Providers paid for volume of services, not outcomes
- Patients must navigate the health system
- Siloed delivery of care
- **Limited information sharing and integration across settings (paper and electronic)**
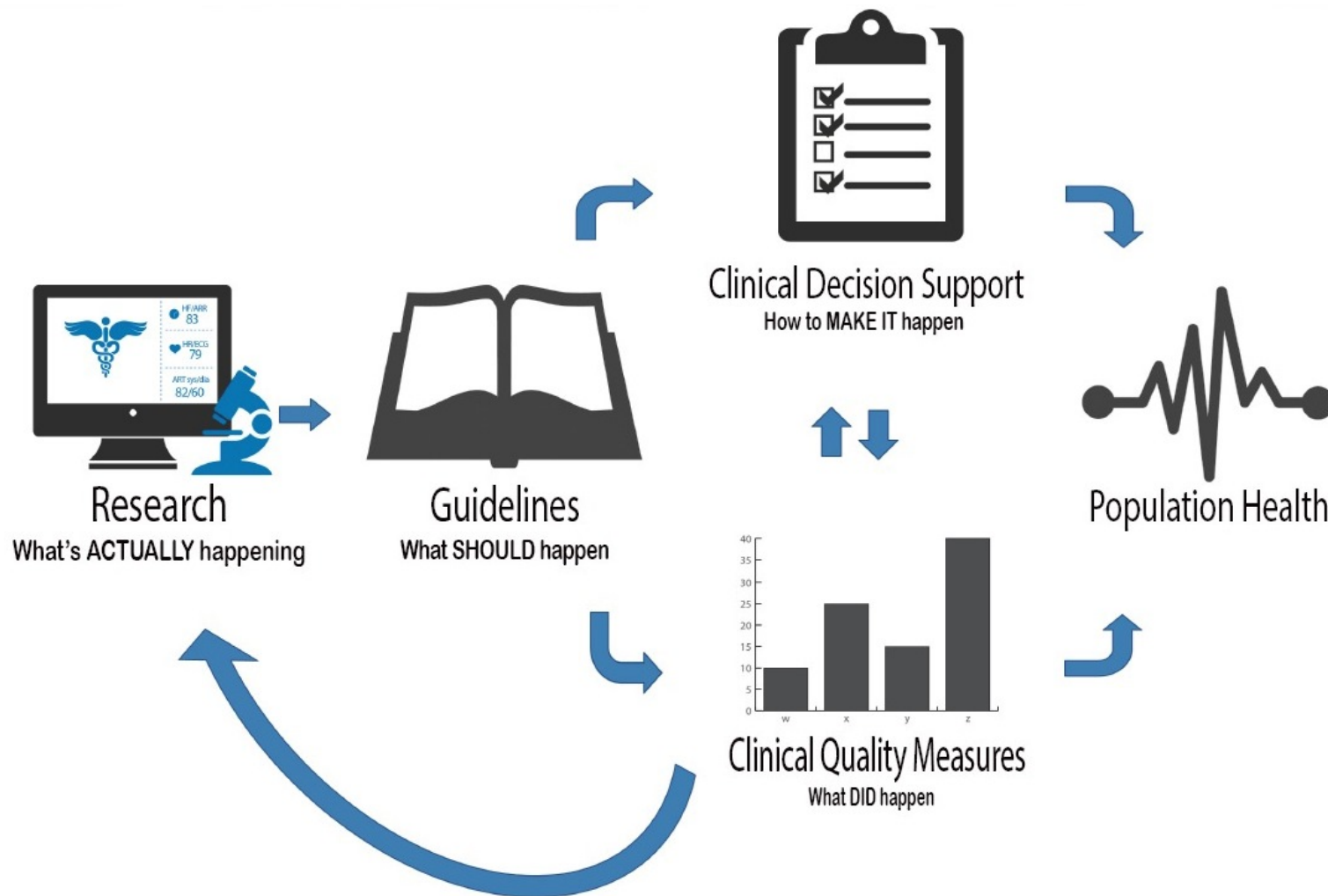
Emerging Value Based Care

- Providers paid for health outcomes, not volume of services
- Care team includes individual and all allied providers
- **Emphasis on use of technology to integrate care and share information**

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For more information on Value Based Care, visit:
https://www.healthit.gov/playbook/value-based-care/

What is Clinical Decision Support (CDS)?

- CDS is a key functionality of health information technology that—when effectively applied— contributes to improving quality.

- There is no definitive or comprehensive list of what can constitute CDS; it can be a variety of tools including, but not limited to:

  - clinical guidelines;

  - condition-specific order sets;

  - alerts or reminders for providers and patients;

  - focused patient data reports and summaries;

  - documentation templates;

  - contextually relevant reference information

CDS is Critical for Enabling Value-Driven Care

Research
What's ACTUALLY happening

Guidelines
What SHOULD happen

Clinical Decision Support
How to MAKE IT happen

Population Health

Clinical Quality Measures
What DID happen

Challenges to Widespread CDS Adoption

- In 2006, ONC released a CDS Roadmap, calling for an ecosystem including high-quality, standards-based, sharable CDS to drive care quality.

- Challenges in realizing the Roadmap's vision include:

  » Lack of widely accepted technical standards for CDS

  » Technical difficulties of sharing CDS across institutions and EHR systems

  » Trust issues for CDS originating elsewhere

CDS Standards Development: Current State

- FHIR Release 3 (STU) , HL7 approved as of April 2017

  » Added Clinical Reasoning module to support Clinical Decision Support and Clinical Quality Measures

- The Common Data Model Standard offers a unified approach to creating FHIR profiles with extensions needed to create interoperable, quality-focused applications

  » The Quality Information and Clinical Knowledge (QUICK) logical model provides a uniform way for clinical decision support and quality measures to refer to clinical data, and QICore implement QUICK, making data for quality improvement applications accessible via the FHIR API interface.

  » http://www.hl7.org/fhir/current/qicore/

- FHIR Release 4 (publication expected 10/2018) will:

  » Integrate CDS Hooks with Clinical Reasoning Module in FHIR

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National Academy of Medicine (NAM) Project Rationale

- **Less progress in the 10 years since the CDS Roadmap than anticipated**

  » Urgent need to improve front-line providers' ability to use CDS to provide high-quality care and reduce the burdens and challenges of information overload and health IT system use

  » Limited CDS solutions for small/solo practitioners

  » Persistence of low-value (e.g., 'click-through') CDS

- **The standards are finally maturing to the point of usefulness**

- **Why NAM?**

  » NAM is particularly suited to bring together key stakeholders across sectors

  » NAM has the ability to inspire real solutions and action across the ecosystem
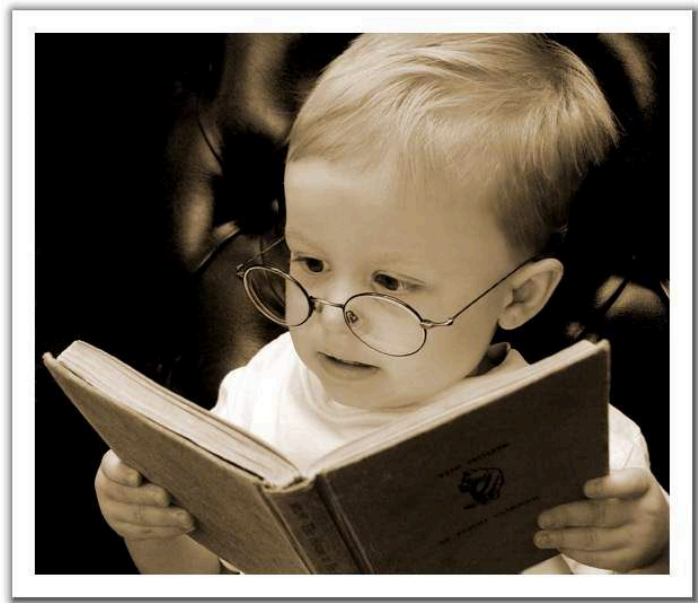
NAM Project Goals

- Identify actionable opportunities to accelerate progress in CDS creation, distribution, and use

- Inspire action on priority opportunities amongst diverse stakeholder groups

- Drive progress towards a usable, interoperable CDS to enable a value-driven learning health system

Read the Report

https://nam.edu/optimizing-strategies-clinical-decision-support/

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Thank You

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