

NQF HIT Critical Paths: Care Coordination

Webinar
October 15, 2012



NATIONAL
QUALITY FORUM

Speakers

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- **Lipika Samal, MD MPH**
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- **Laura Heermann Langford, RN PhD**
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- **Rosemary Kennedy, PhD RN MBA FAAN**
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Webinar Objectives

- Provide an overview of the Critical Paths: Care Coordination project
- Review the work of the Technical Expert Panel (TEP) to define the requirements for measurement
- Discuss the results from an environmental scan
- Introduce the TEP's recommendations
- Discuss the public comment process for this draft report

http://www.qualityforum.org/HIT/Critical_Paths/Care_Coordination.aspx



Critical Paths: Project Overview

Critical Paths: Care Coordination Background

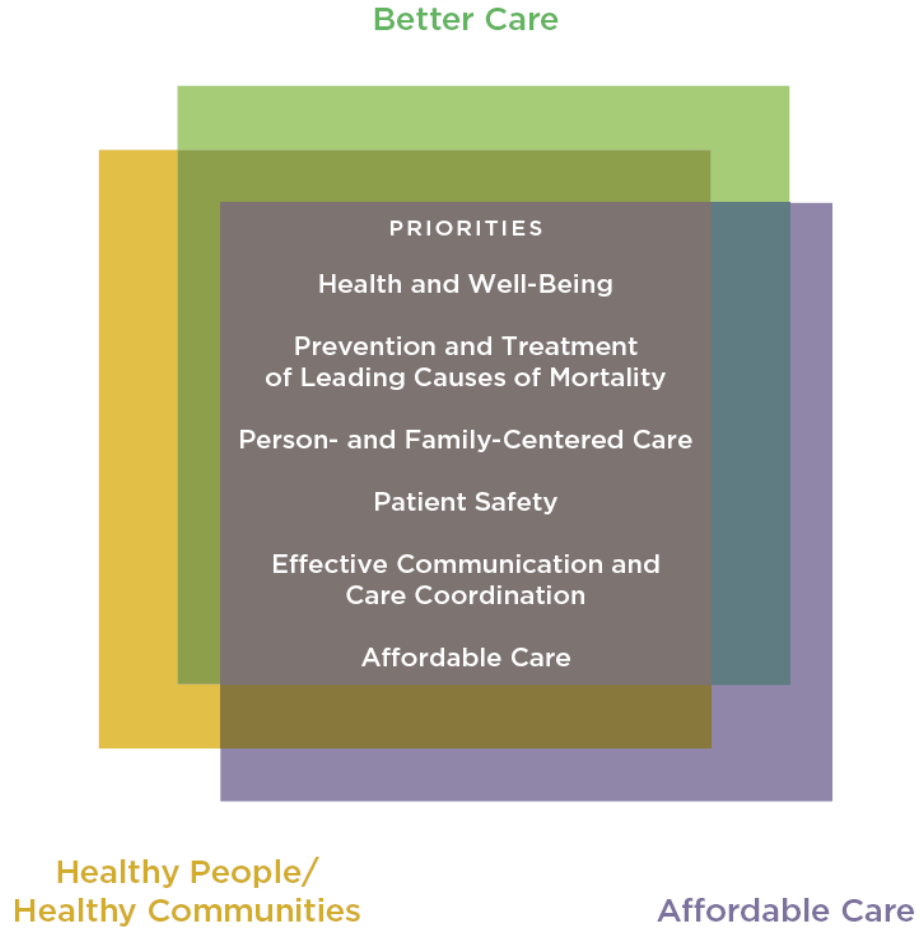
- **Scope**
 - Focused on transitions of care and quality measurement using the plan of care
- **Goals:**
 - Assess the readiness of electronic data to support acute care quality reporting of transitions of care using the plan of care
 - Recommend actionable steps to address gaps and barriers
- **Future State:** Enable the use of care plan data communicated during transitions of care for quality measurement

Critical Paths: Care Coordination Project Approach

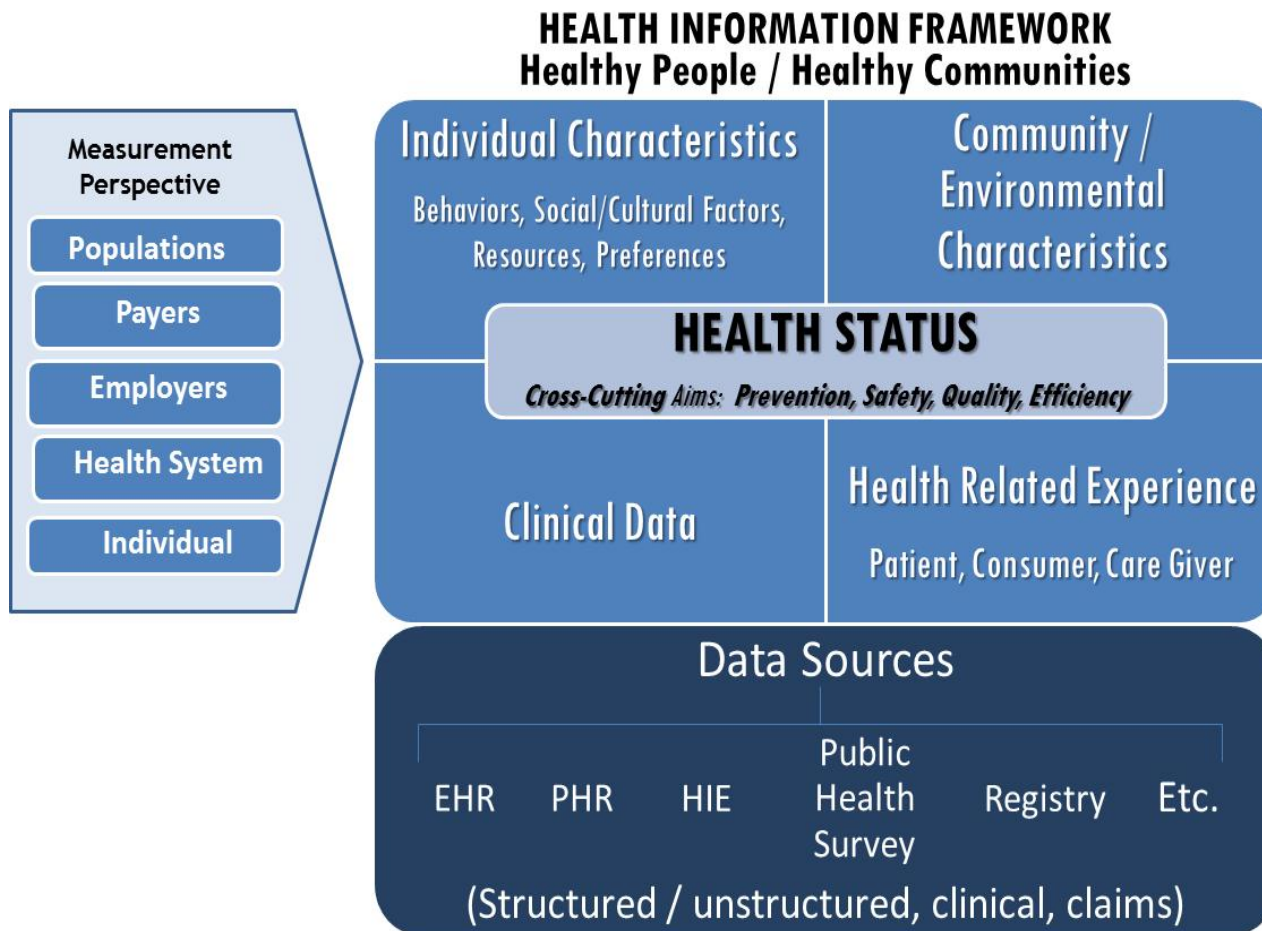
- **Technical Expert Panel**
 - To define requirements for measurement and evaluation of readiness for measurement.
- **Environmental Analysis**
 - To develop a baseline understanding of the use of health IT to support transitions of care and quality measurement
- **Report**
 - Includes recommendations to advance the ability of existing health IT infrastructure to support quality reporting of care planning during transitions of care
 - Public Comment
 - Webinar

HHS' National Quality Strategy

Aims and Priorities



Health Information Technology Framework



Care Coordination Technical Expert Panel Member Roster

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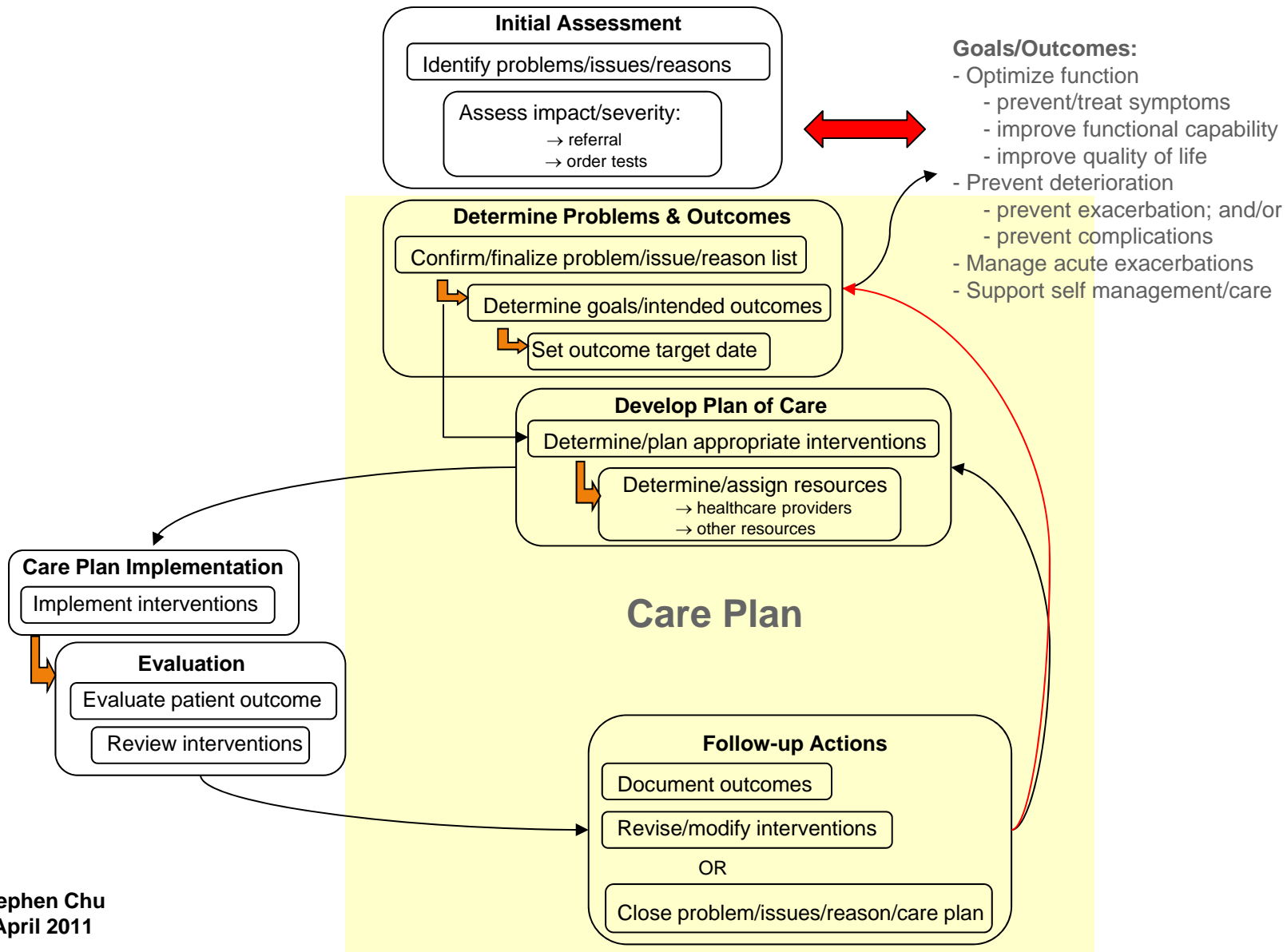
Susan Yendro, RN, BSN

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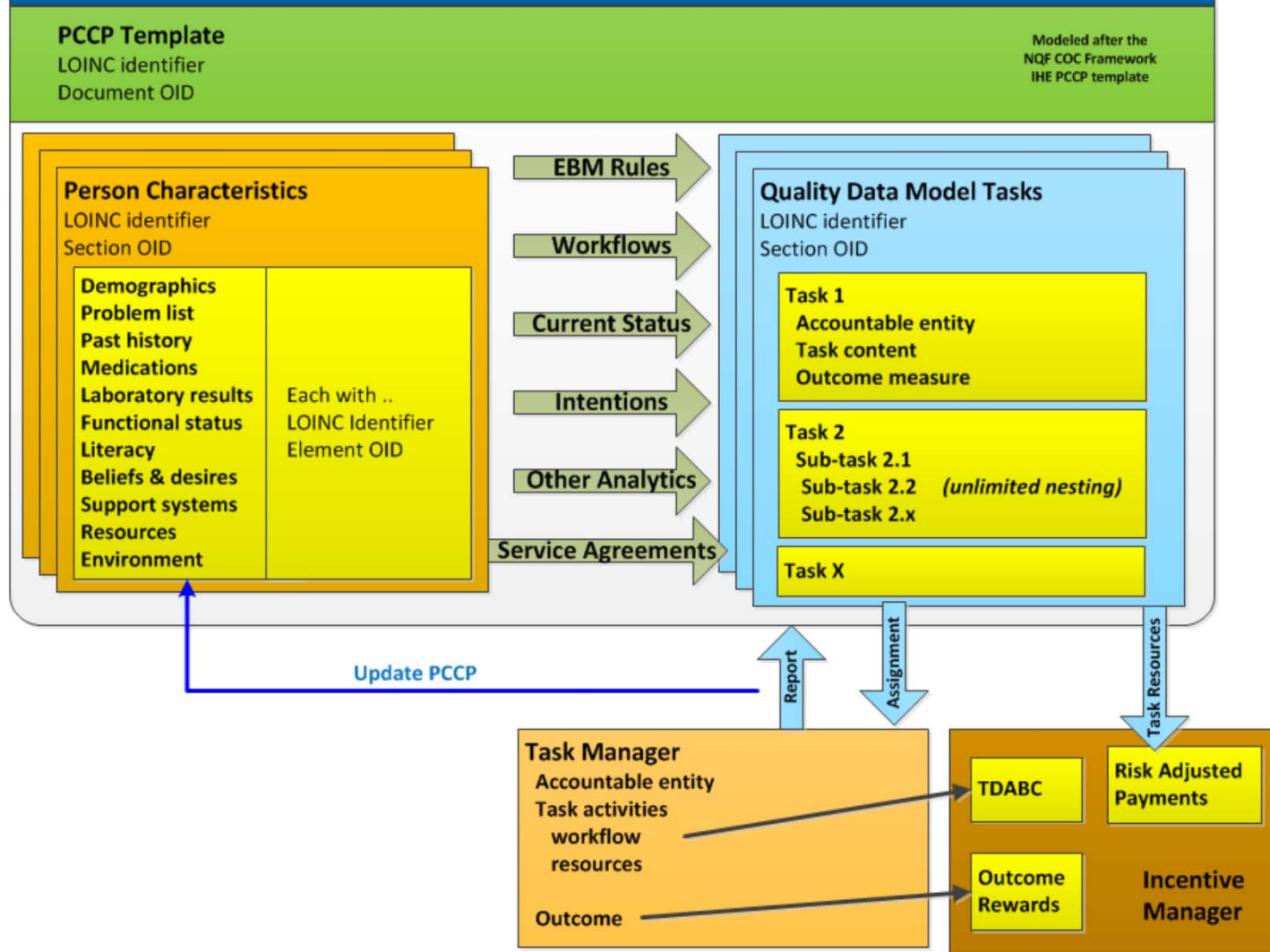


**Technical Expert Panel
Work to Define Data and
Functional Requirements**

Care Plan – High Level Processes

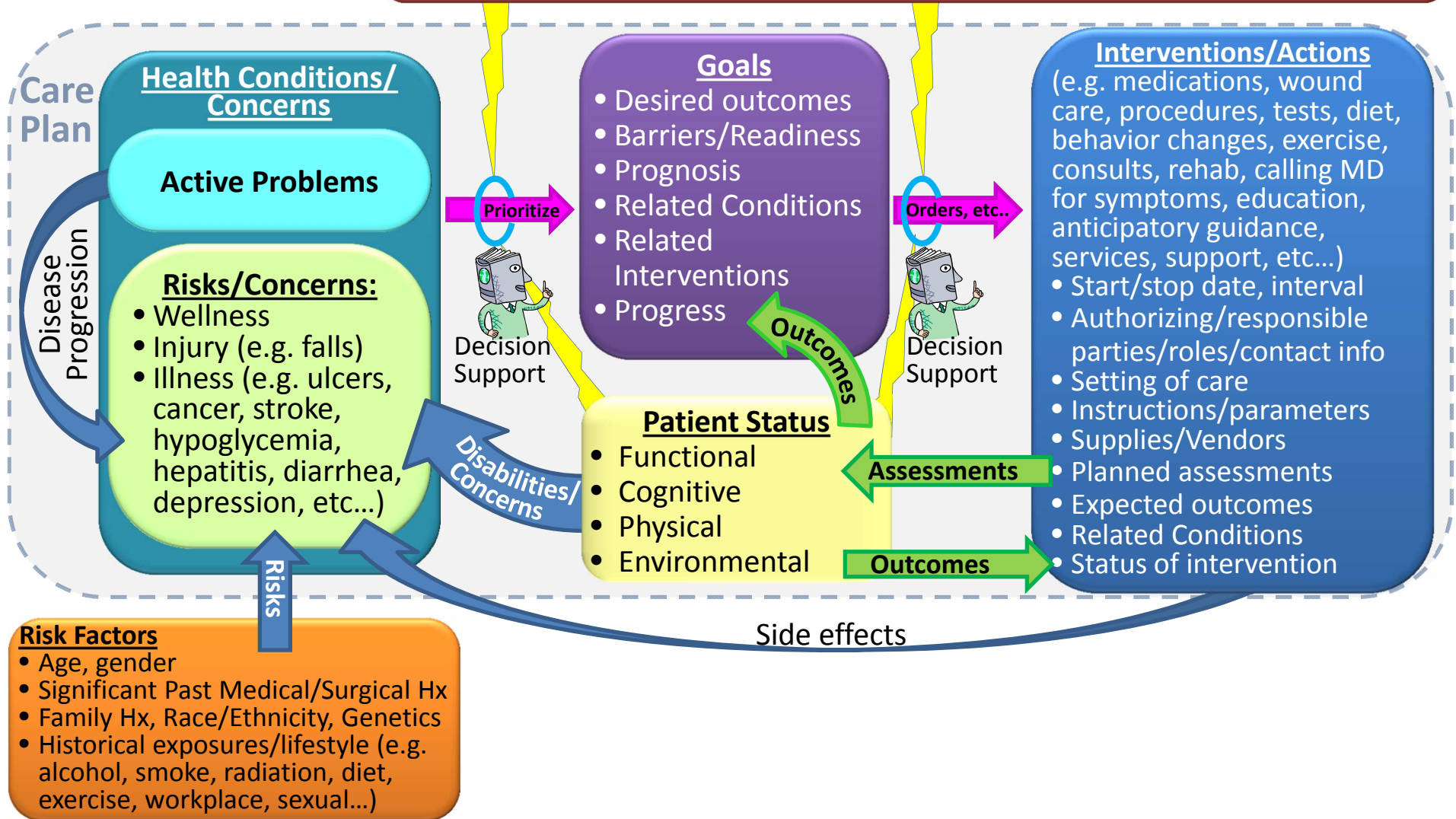


Person Centered Coordination Plan

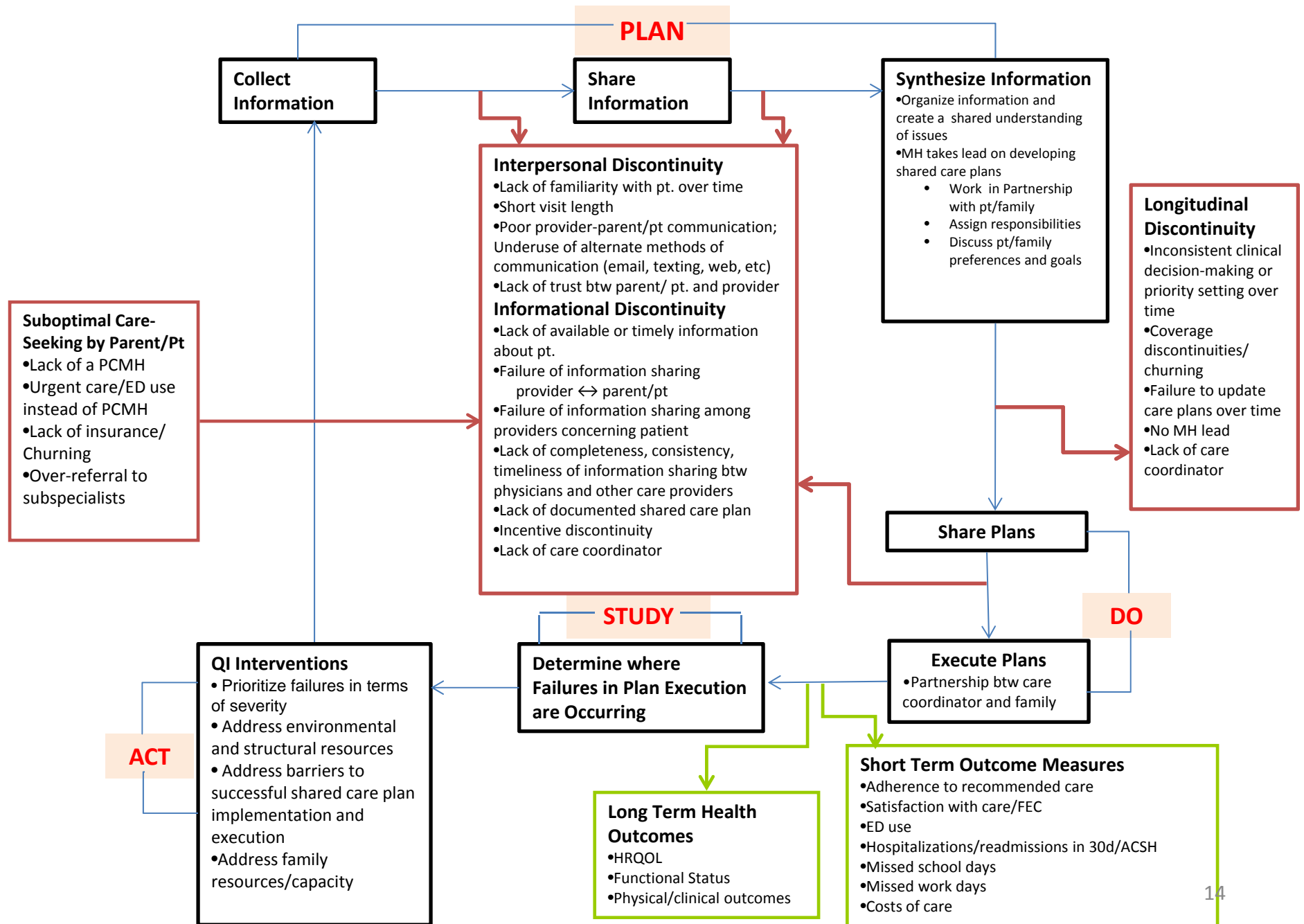


Care Plan Decision Modifiers

- Patient/family preferences (values, priorities, wishes, adv directives, expectations, etc...)
- Patient situation (access to care, support, resources, setting, transportation, etc...)
- Patient allergies/intolerances

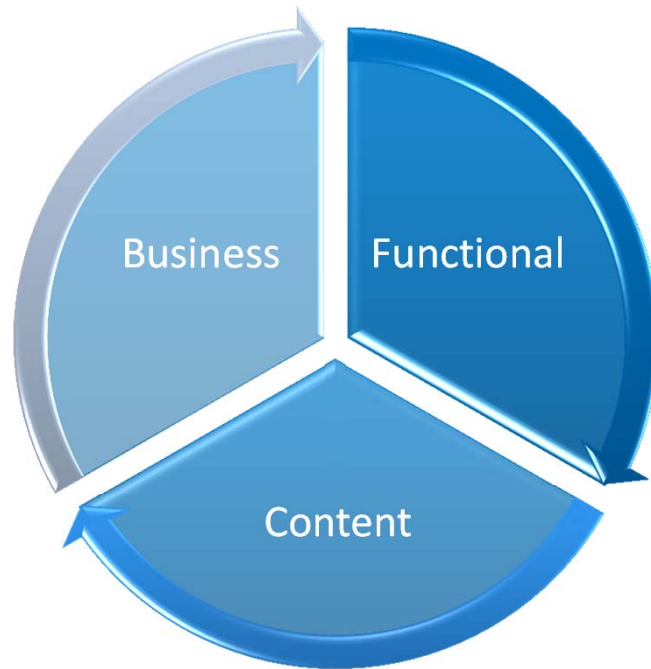


Conceptual Framework for Care Coordination/Fragmentation in the Context of the PCMH for Children with Complex Needs



Care Coordination TEP: Defining Requirements

Characteristics of a Care Plan



- **Business** factors include decisions by the organization, policies and procedures, and care coordination practices
- **Function** includes human factors that affect how the care plan is developed, used, and evaluated.
- **Content** includes those factors
 - *intrinsic* to the plan of care (diagnoses (condition/problem), interventions (orders/services), goals, and outcomes)
 - *extrinsic* to the plan of care (environmental factors)

Characteristics of the Care Plan: Business

Business Characteristics

1. One Patient-Centered Care Plan

- The care plan is a “single source of truth” with input from multiple parties
- All parties need to know “who is doing what,” and it will inform the best team mix.

2. Belongs to the Patient (Consumer)

- There may be a steward who is ensuring that the care plan is executed upon in a timely and safe manner.
- There is a need for a care coordinator who assumes ownership for updating the plan, with input from all the stakeholders.
- Successful execution and management requires a single source of responsibility and accountability

Characteristics of Care Plan: Business

Business Characteristics (continued)

3. Needs Structure and Processes (for Execution and Management)

- To ensure that all necessary care plan functions are performed across the care continuum
- The care plan could be informed by service agreements between providers intended to guarantee access to and appropriateness of care.

Characteristics of Care Plan: Function

Function Characteristics

1. There are multiple input sources, entered once and used many times

- Must be current, actionable, dynamic, and iterative with on-going data collection
- Organized and user-friendly to achieve patient-centered goals
- May require different views depending on the user role

2. A key function of the care plan is to enhance the care process and outcomes

- Supports episodes of care while also healthcare for life
- Supports alerting, tracking, and activity/task management
- Requires clinical decision support

Characteristics of Care Plan: Function

Function Characteristics (continued)

6. Interoperable

- Uses industry standards for content, decision support, and messaging between systems.
- Must be interoperable with external knowledge sources, as well as other systems.

7. Support Quality Measurement, Safety, and Research

- Data must be standardized to support care delivery, clinical decision support, quality measurement, and clinical effectiveness research

Characteristics of Care Plan: Content


Content

1. The care plan contains core information:

- Diagnoses (conditions/problems),
- Prognosis,
- Orders (interventions/services),
- Goals (expected outcomes) and
- Actual outcomes.

2. In addition, there are other data elements necessary for interpretation and management of the care plan

- Condition specific data elements
- Contextually driven based on the patient, workflow, setting of care and other variables



Environmental Analysis

Environmental Analysis Conducted by Brigham and Women's Hospital

- **Objective:** to assess the readiness to transmit electronic data, to use HIT systems to perform the data capture, to standardize data, to communicate a patient-centered plan of care, and use data for quality measurement

- **Methodology**
 - Systematic literature review
 - Emailed survey, 6 phone interviews and 2 site visits
 - » Sites represented a diverse range of electronic capabilities and geographic regions
 - » Each site interview was able to provide information on 4 different types of healthcare facilities: ED, ACH, SNF, HHA

Literature Review

- 10 articles included for structured data extraction
- Studies of:
 - Electronic tools for information exchange across transitions
 - Electronic tools for discharge and post- discharge communication
 - Nurse practitioner case management programs

Environmental Analysis: Overview of Results

- Organizations are working to address care coordination demands, but are struggling with a patchwork of systems, few of which connect and exchange data.
- Many organizations are still working to transfer basic discharge summaries electronically between settings.
- Organizations are using multiple methods for communicating and extracting the data
- Comprehensive electronic methods tend to be discipline-specific and focused on high risk patients

Environmental Analysis: Electronic Tools for Care Coordination

- Many sites have electronic discharge summaries implemented in EHRs, but print or fax them to receiving organizations.
- When care team members can access the EHR from another setting, they extract data and then re-enter into their own systems.
- Phone, email, and fax are still common.
- None of the sites have direct electronic transfer of transition of care data elements data; they use view-only or paper-based methods.
- Several sites are developing tools to identify, track and manage high risk patients that require more intensive care coordination.

Environmental Analysis: Quality Measurement

1. Risk stratification
2. Failures of care coordination
3. Discharge and transition processes
4. Patient Surveys

Environmental Analysis: Future Vision

- Many sites described mixture of verbal and electronic communication solutions
- Electronic Longitudinal Plan of Care = a single, integrated plan that is comprehensive, patient-centered, and reflects patient's values and preferences
 - Barriers to realization of the Longitudinal Plan of Care
 - Uneven readiness for Meaningful Use (MU) Stage 2 criteria



Recommendations

Business Factors: Change Behaviors and Move the Paradigm Forward

- National incentives need to be aligned to change both individual and organizational behavior.
- The MU program is a powerful lever for changing the technical side through ONC certification and the behavioral side through CMS payment incentives.
 - MU Stage 2 addresses technical barriers related to data exchange and the movement towards common data sets.
- Incentives need to expand the scope of a hospital beyond its “walls” to look at how the organization interacts with its environment across the continuum.

Business Factors: Change Behaviors and Move the Paradigm Forward

- With greater adoption of the dynamic, longitudinal plan of care, CDS can play a greater role in the electronic environment.
- Existing CDS tools could support the creation of a dynamic plan of care that displays the most relevant data based on patient-specific characteristics and setting of care.
- CDS includes not only the point of care CDS, but also aggregate analytical tools, which require a robust terminology infrastructure.
- Increased sophistication around data element “attributes” is needed in the CDS system to assign, order, and refer interventions and tasks.

Function: Realizing the Potential of Health IT Tools

- Innovative health information systems and applications are needed that can support care plans across organizations.
- A broad array of health IT can be used that extend beyond the EHR:
 - A plan of care also includes information found in case management systems, home care systems, and financial applications

Function: Realizing the Potential of Health IT Tools

- Data infrastructure can serve as a precursor for automated electronic functional support.
- Use of the Consolidated CDA standard can lead to greater data interoperability, as well as meeting certification criteria and MU objectives.
- Incremental movement is needed from the current state to the end goal: standardization of dynamic longitudinal plans of care that incorporate systems for measuring and improving quality.

Content: Data and Interoperability Standards

- The main data elements (diagnosis, procedure, care goal, outcome) alone are not sufficient for either care delivery or quality measurement.
 - Additional data elements include assessment findings, environmental factors, and patient preferences.
- Although MU2 will enhance documentation of common data elements, proposed MU3 measures have an expanded data element list.
 - The common MU data set lacks the necessary granularity for patient-centered, longitudinal care plans.

Content: Data and Interoperability Standards: Minimum “Starter Set”

1. Demographics (name, address, sex, DOB, race, ethnicity, preferred language)
2. Advanced directives
3. Patient preferences
4. Medical equipment
5. Insurance/payers
6. Practice identifier
7. Prior and future encounters (episodes of care)
8. Care team
 - a. Roles
 - b. Responsibilities
 - c. Key owner for the plan of care
 - d. Primary contact
 - e. Additional contacts
9. Support
10. Special alerts/ heads up
11. Adverse events / unintended events
12. Shared agreement
13. Problems/conditions, Orders/Services/ Interventions, Goals (expected outcomes)
14. Past history
15. Watchful waiting
16. Certification and Certification period for the clinical team
17. Environmental factors
 - a. Exposures in environment
18. Observations
 - a. Assessment / physical findings / measurement instruments
 - b. Actual outcomes
 - c. What worked / what didn't work?
19. Results
 - a. Allergies
 - b. Smoking status
 - c. Labs
 - d. Diagnostic results
 - e. Vital signs
20. Precautions
21. Orders/Services/Interventions
22. Medications (see above categories)

Areas of Future Exploration for Data Elements Related to Electronic Quality Measurement

- Methods for modeling and tracking care plan responsible parties, their roles, and attribution
- Standardization of:
 - Patient, person, or caregiver instructions
 - Representation for encounters, episodes of care, and occurrences
 - Environmental factors
 - Medications
 - Patient reported outcomes and associated attributes
 - Alerts and pending tests



Care Coordination Draft Report Public Comment Period

October 1, 2012 – October 30, 2012

http://www.qualityforum.org/HIT/Critical_Paths/Care_Coordination.aspx



Questions