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Enhancing Care Transitions: Managing the Needs of the Complex, Chronically III Patient

Objectives:

- Discuss demand for Care Transition Management for complex chronically ill patients
- Describe development of the Care Coordination and Transition Management (CCTM) dimensions and competencies
- Discuss challenges, future directions and outcomes of the RN-CCTM model in managing care transitions for complex chronically ill patients

Commonwealth Fund Mirror Mirror on the Wall Report (2014)

COUNTRY RANKINGS

Top 2*											
Middle	×.										
Bottom 2*						*				\sim	
	AUS	CAN	FRA	GER	NETH	NZ	NOR	SWE	SWIZ	UK	US
OVERALL RANKING (2013)	4	10	9	5	5	7	7	3	2	1	11
Quality Care	2	9	8	7	5	4	11	10	3	1	5
Effective Care	4	7	9	6	5	2	11	10	8	1	3
Safe Care	3	10	2	6	7	9	11	5	4	1	7
Coordinated Care	4	8	9	10	5	2	7	11	3	1	6
Patient-Centered Care	5	8	10	7	3	6	11	9	2	1	4
Access	8	9	11	2	4	7	6	4	2	1	9
Cost-Related Problem	9	5	10	4	8	6	3	1	7	1	11
Timeliness of Care	6	11	10	4	2	7	8	9	1	3	5
Efficiency	4	10	8	9	7	3	4	2	6	1	11
Equity	5	9	7	4	8	10	6	1	2	2	11
Healthy Lives	4	8	1	7	5	9	6	2	3	10	11
Health Expenditures/Capita, 2011**	\$3,800	\$4,522	\$4,118	\$4,495	\$5,099	\$3,182	\$5,669	\$3,925	\$5,643	\$3,405	\$8,508

EXHIBIT ES-1. OVERALL RANKING

Notes: * Includes ties. ** Expenditures shown in \$US PPP (purchasing power parity); Australian \$ data are from 2010.

Source: Calculated by The Commonwealth Fund based on 2011 International Health Policy Survey of Sicker Adults; 2012 International Health Policy Survey of Primary Care Physicians; 2013 International Health Policy Survey; Commonwealth Fund National Scorecard 2011; World Health Organization; and Organization for Economic Cooperation and Development, OECD Health Data, 2013 (Paris: OECD, Nov. 2013).

Failures in the U.S. Health Care System

- Cost of care
- Access to care
- Health care quality
- Efficiency
- Equity
- Healthy lives
 - (Commonwealth Fund, 2014)

Exhibit 2 Health Care System Performance Rankings (2017)

	AUS	CAN	FRA	GER	NETH	NZ	NOR	SWE	SWIZ	UK	US
OVERALL RANKING	2	9	10	8	3	4	4	6	6	1	11
Care Process	2	6	9	8	4	3	10	11	7	1	5
Access	4	10	9	2	1	7	5	6	8	3	11
Administrative Efficiency	1	6	11	6	9	2	4	5	8	3	10
Equity	7	9	10	6	2	8	5	3	4	1	11
Health Care Outcomes	1	9	5	8	6	7	3	2	4	10	11

Source: Commonwealth Fund analysis.



th E. C. Schneider, D. O. Sarnak, D. Squires, A. Shah, and M. M. Doty, *Mirror, Mirror: How the U.S. Health Care System Compares Internationally at a Time of Radical Change,* The Commonwealth Fund, July 2017.

Failures in the U.S. Health Care System (2017)

Rankings

5

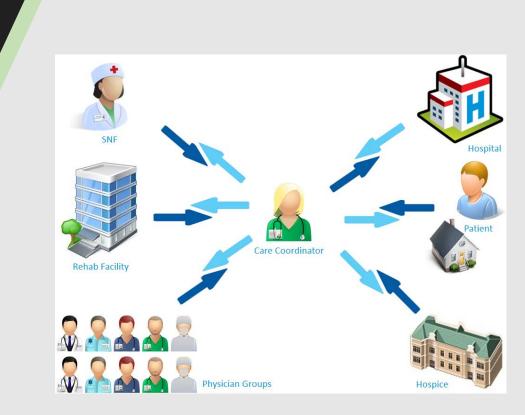
- Cost of Care 16% of GDP
- Care process

F

- Access to care 11
- Health care outcomes 11
- Efficiency 10
- Equity 11

Background and Significance

- Health care delivery is shifting from inpatient to outpatient and community settings.
- Need for care coordination and management of transitions between types of care, providers and settings is often overlooked, episodic, follows specialty rather than primary care.
- Care coordination and care transitions occurs with no one accountable for coordinating care or managing transitions.



Growing Demand for Care Coordination and Transition Management for High Risk Chronic Care Populations

- Chronic diseases are responsible for 7 of 10 deaths each year, and treating people with chronic diseases accounts for 86% of our nation's health care costs (<u>https://www.cdc.gov/chronicdisease/</u>retrieved 1/19/2017)
- 88% of U.S. healthcare dollars are spent on medical care that only accounts for approximately 10% of a person's health
 - Other determinants of health are: lifestyle and behavior choices, genetics, human biology, social determinants, and environmental determinants – accounting for approximately 90% of their health outcomes. Trotter et al.,2016) Retrieved 1/19/2017 http://www.exerciseismedicine.org/assets/page_documents/Whitepaper%20Final%20for%2 0Publishing%20(002)%20Chronic%20diseases.pdf
 - Many struggle with multiple illnesses combined with social complexities such as, mental health and substance abuse, extreme medical frailty, and a host of social needs such as social isolation and homelessness (Berwick, Nolan & Whittington, 2008).
- Escalating problem of multiple chronic conditions (MCC) among Americans is a major challenge, associated with suboptimal health outcomes and rising health-care expenses (Parekh et al., 2011)
- Delivery of health services has continued to employ outmoded "siloed" approaches that focus on individual chronic diseases (Parekh et al., 2011)

Definition Chronic Disease

(http://www.health.gov.on.ca/en/pro/programs/cdpm/pdf/framework_full.pdf)

- Chronic diseases are:
 - Long-term diseases
 - Develop slowly over time, often progressing in severity
 - Can often be controlled, but rarely cured
- They include conditions such as cardiovascular diseases (heart disease and stroke), **cancer**, diabetes, arthritis, back problems, asthma, and chronic depression.
- Chronic diseases may significantly impair everyday physical and mental functions and reduce one's ability to perform activities of daily living.

Definition of Complex Chronic Disease (Sevick et al., 2007)

- Complex Chronic Disease (CCD) is a condition involving multiple morbidities that requires the attention of multiple health care providers or facilities and possibly community (home)-based care.
- A patient with CCD presents to the health care system with unique needs, disabilities, or functional limitations.
- The literature on how to best support self-management efforts in those with CCD is lacking. <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2150604/</u> Retrieved 1/10/2017

Cancer as a Complex Chronic Disease

- The Institute of Medicine report (2013) recognizes important drivers behind the "crisis" in cancer care relate to:
 - Population ageing
 - Complex care needs of cancer patients go beyond cancer alone
- Aging population and increasing numbers of patients diagnosed with cancer, comorbidity management plays an increasing role in modern health services.
- Need to move beyond single-disease model of studying cancer and embrace complexities of studying and managing people with complex medical conditions
- In the United States, 70 percent of all deaths are due to chronic diseases. <u>http://needtoknow.nas.edu/id/threats/chronic-illness-and-cancer/</u> retrieved 12.29.16

Cancer as a Complex Chronic Disease (Phillips & Currow, 2010)

- Over the past two decades the number of people Living with cancer has increased
- Many cancer survivors end up with long term disabilities requiring ongoing care and support
- For many, cancer survival now means Living with a chronic and complex condition
- Cancer survivors require ongoing support in four key areas:
 - prevention
 - surveillance
 - intervention for consequences of cancer and its treatment
 - coordination between specialist and generalist providers.
- Cancer survivors experience significant physical and psychological morbidity making minimizing burden of disability and distress a priority.
- Survivors require ongoing care that is well coordinated, focuses on prevention, provides going surveillance; minimizing and managing the long term effects of treatment and other comorbidities.

Cancer is a Chronic Disease with Comorbidities

- How can we best Care for Patients with Cancer and current and potential comorbidities?
- Suggest: Nurse providers are key:
 - APNs working in Primary Care, having not only APN Pediatric or Adult Certification, also have ONS certification and provide:
 - Evidence-based Primary Care assessment and interventions
 - Provide Preventive assessment, teaching and follow-up
 - Transition management across settings so any new providers have a valid and reliable picture of the patient history and comorbidities
 - Registered Nurses with Care Coordination and Transition Management competencies in ambulatory and acute care:
 - Provide surveillance on comorbidities
 - Standardized transition management communication across providers and settings.

Factors contributing to gaps or errors in care transitions

(Coffey, Truong & Niesen, [in press] Cross Setting Communication and Care Transitions. *In Care Coordination and Transition Management* 2nd ED. (Haas, Swan & Haynes, Eds. Pitman, NJ: Anthony J. Jannetti)

• Incomplete transfer of information:

- The Joint Commission identified miscommunication as the main cause of serious, unexpected patient injuries and was the second common cause of sentinel events reported during the first six months of 2013 (Ellison, 2015).
- Potential for medical errors increases when more than one health care provider or site of care is involved in providing services to a patient (Clancy, 2008)
- Average Medicare patient has seven providers across four care settings involved in their care. Five specialty providers and two primary care providers (IOM, 2013).
- Four out of five patients are discharged from hospitals without direct communication with primary care provider (PCP) (RWFJ, 2013a, 2013b).

Factors contributing to gaps or errors in care transitions

(Coffey, Truong & Niesen, [in press] Cross Setting Communication and Care Transitions. *In Care Coordination and Transition Management* 2nd ED. (Haas, Swan & Haynes, Eds. Pitman, NJ: Anthony J. Jannetti)

- Effective care **transition communication** is an expectation of quality patient care.
- Adverse events and risk exposures occur due to **ineffective or poor communication** during transitions of care.
 - Poor communication among health care providers and the lack of shared information about patients result in under-treatment, suboptimal therapy, adverse drug events, and hospital admissions or re-admissions (IOM, 2013).
 - Up to 49% of patients experience at least one medical error after discharge, and one in five patients discharged from the hospital suffers an adverse event.
 - Improved communication among providers could prevent up to half or more of these events (Society of Hospital Medicine, 2010).
 - One in five Medicare patients discharged from hospitals are readmitted within 30 days, and 34% within 90 days (Brown, 2018; Robert Wood Johnson Foundation [RWFJ], 2013a, 2013b).

Factors contributing to gaps or errors in care transitions (Coffey,

Truong & Niesen, [in press] Cross Setting Communication and Care Transitions. *In Care Coordination and Transition Management* 2nd ED. (Haas, Swan & Haynes, Eds. Pitman, NJ: Anthony J. Jannetti)

- Communication has been described as a complicated process of transfer and exchange of information reflecting multiple aspects of patient care including:
 - assessment, decision making, goal planning including problem identification and prioritization, and care planning (Allen, Ottmann, & Roberts, 2013).
- Exchange of information occurs informally and formally between members of the healthcare team who say that communication is critical in healthcare (Lancaster, Kolakowsky-Hayner, Kovacich, & Greer-Williams, 2015).
- Communication is a vital component of the post-hospital discharge.
- Kripalani et al. (2007) conducted a systematic review of the literature and found that direct communication between hospital physicians and primary care physicians only occurs 3-20% of the time and written communication in the form of the discharge summary is only available 12-34% of the time.

Our Medical System Rewards Heroic Intervention. When will We Grasp the Power of Incremental Care? (Atul Gawande, 2017)

- "We devote vast resources to surgeons . . . While starving physicians whose steady intimate care helps many more" (Gawande, 2017, p. 37)."
- Primary care MD "It's no one thing we do. It's all of it. " "It's the relationship."
- "The doctors, the nurses and the front-desk staff know by name almost every patient who came through the door. Often they had known the patient for years and would know him for years to come" (Gawande, 2017, p. 41).
- "Our ability to use information to understand and reshape the future in multiple ways.
- Four types of information that matter to health and well-being over time are: state of internal systems; state of living conditions and environmental circumstances; state of care received from health care practitioners and state of personal behaviors.
- Instead of annual checkups will use technology (smart phones and wearables) continuously monitor physical status and signs of illness
- Our health care system is not designed for this future

Definition Care Coordination

"Care coordination is the deliberate" organization of patient care activities between two or more participants (including the patient) involved in a patient's care to facilitate the appropriate delivery of health care services. Organizing care involves the marshaling of personnel and other resources needed to carry out all required patient care activities and is often managed by the exchange of information among participants responsible for different aspects of care."

(McDonald et al., 2007 in AHRQ Care Coordination Measures Atlas, 2010, p. 4)



Naylor's Definition of Transitional Care

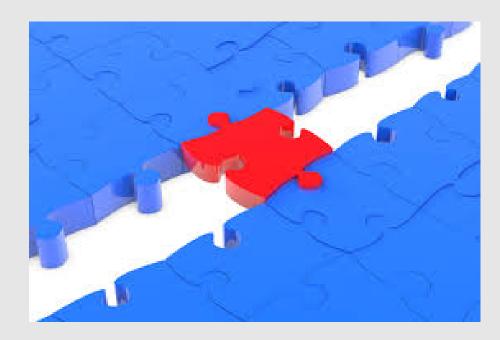
"Transitional care comprises a range of time-limited services that complement primary care and are designed to ensure health care continuity and avoid preventable poor outcomes among at-risk populations as they move from one level of care to another, among multiple providers and across settings."

(Naylor, 2000)



Transition Management Definition

"the ongoing support of patients and their families over time as they navigate care and relationships among more than one provider and/or more than one health care setting and/or more than one health care service. The need for transition service. The need for transition management is not determined by age, time, place, or health care condition, but rather by patients' and/or families' need for support for ongoing, longitudinal individualized plans of care and follow-up plans of care within the context of health care delivery." (Haas, Swan, & Haynes, 2014, p. 3)



Models to Improve Care Transitions

- Better Outcomes for Older Adults Through Safe Transitions (BOOST) – Society of Hospital Medicine
- Care Transitions Intervention Eric Coleman Self management program (4 weeks) provided to patients with complex medical needs and their care givers
- Transitional Care Model Mary Naylor Transitional care by nurses for chronically ill hospitalized older adults
- Guided Care Model Chad Boult Guided Care Nurse in primary care uses EHR records to guide patient and care givers in 8 processes of care
- National Transitions of Care Coalition (NTOCC)
- Hospital To Home Project (H2H)

Nursing Case Management and Nurse Navigator Roles

- Case management is a collaborative process that assesses, plans, implements, coordinates, monitors, and evaluates the options and services required to meet the client's health and human service needs. It is characterized by advocacy, communication, and resource management and promotes quality and cost-effective interventions and outcomes. Retrieved 1/23/2017 https://ccmcertification.org/about-us/about-case-management/definition-and-philosophy-case-management
 - Focus is individual patient first versus population health management and use of EB Population Guideline
 - Another focal area is utilization review
- Oncology nurse navigator: An oncology nurse navigator (ONN) is a professional registered nurse with oncology-specific clinical knowledge who offers individualized assistance to patients, families, and caregivers to help overcome healthcare system barriers. Using the nursing process, an ONN provides education and resources to facilitate informed decision making and timely access to quality health and psychosocial care throughout all phases of the cancer continuum. Retrieved 1/23/2017 https://www.ons.org/sites/default/files/ONNCompetencies rev.pdf
 - This role is subsumed within care coordination and transition management where focus is on access and standardized communication between providers and settings regarding patient needs and issues

Challenges with Care Coordination and Transition Management in the 90s

Nurses in ambulatory care were performing care coordination, but until Haas et al. 1995 national study, there was no evidence of their work or contribution

- Nurses typically did not chart in ambulatory on paper or EHR
- With advent of EHR, there are few documentation screens for nurse documentation
- There were no indicators to track impact that RNs have on processes or outcomes of patients
- Nurses and the work of nursing was invisible

Nurses in acute care may have been doing a form of case management, but not care coordination as delineated in CCTM

- This was more utilization review
- Was not concerned with population health management
- Did not often use best evidence-based practice or evidence based guidelines for specific populations, rather concern was with the individual case

Vision for CCTM RN Model for Registered Nurses

- Consistent with recommendations in the IOM (2010) Future of Nursing Report – Leading Change Advancing Health:
 - Nurses should practice to the full extent of their education and training.
 - Nurses should achieve higher levels of education and training through an improved education system that promotes seamless academic progression.
 - Nurses should be full partners, with physicians and other health care professionals, in redesigning health care in the United States.
 - Effective workforce planning and policy making require better data collection and an improved information infrastructure



Care Coordination and Transition Management

Sheila Haas, PhD, RN, FAAN Beth Ann Swan, PhD, CRNP, FAAN Traci Haynes, MSN, RN, BA, CEN, CCCTM





American Academy of

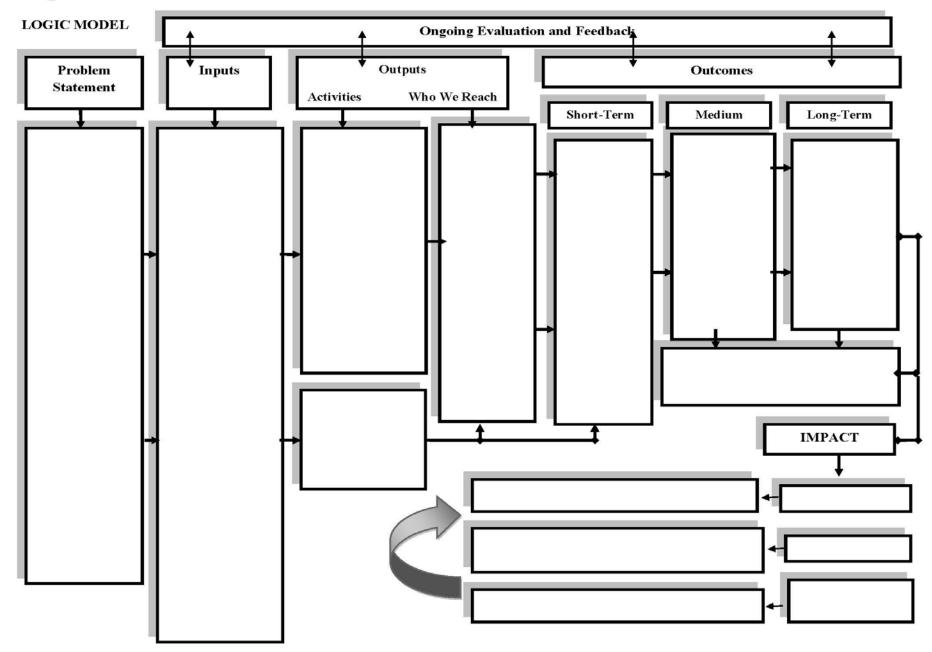
Methods

- Develop evidence-based competencies for Care Coordination and Transition Management done by Registered Nurses
- Tap into expertise of ambulatory and acute care nurse leaders
- Use focus group methods on-line as a cost effective, expeditious approach to bring nurse leaders together
 - Provide opportunities to dialogue and build on each panel expert's knowledge, skills, attitudes and experiences
- Use data summary techniques to capture and share data and outcomes achieved by each panel

Translational Research Methods

- Search and appraise interprofessional evidence for best practices on care coordination and transition management
- Use theory to guide development of dimensions, implementation, adoption, sustainability and dissemination of Care Coordination and Transition Management (CCTM)
- Use Quality and Safety in Education in Nursing (QSEN) format to specify competencies
- Use Logic Modeling to clarify assumptions and relationships between major constructs
- Use project management techniques to keep project on target and on time
- Communicate with major stakeholders at frequent intervals

Logic Models



Use of Logic Model

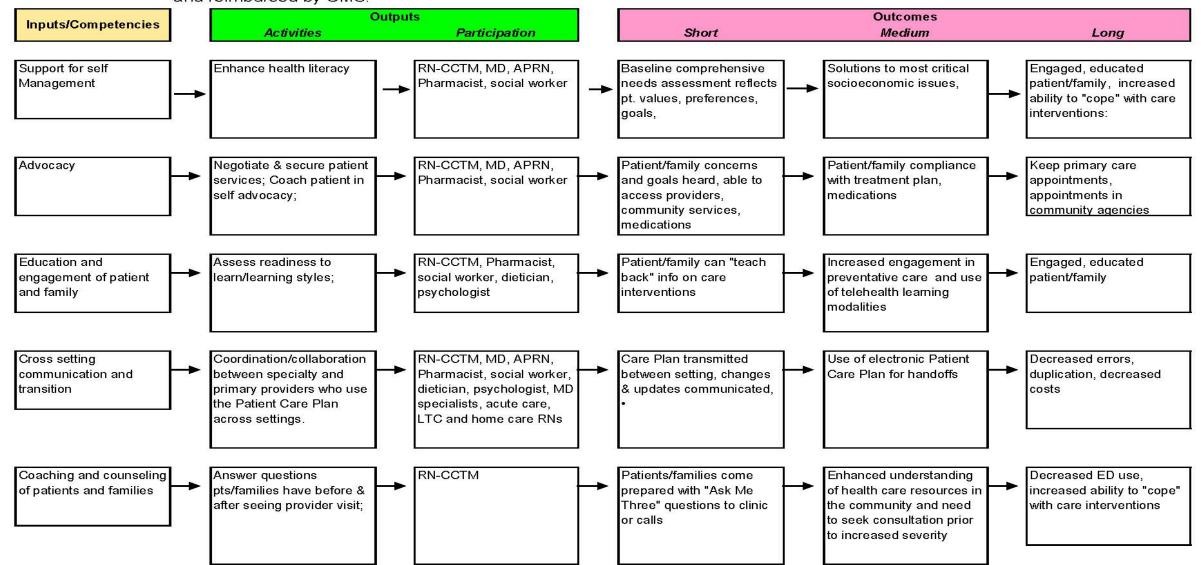


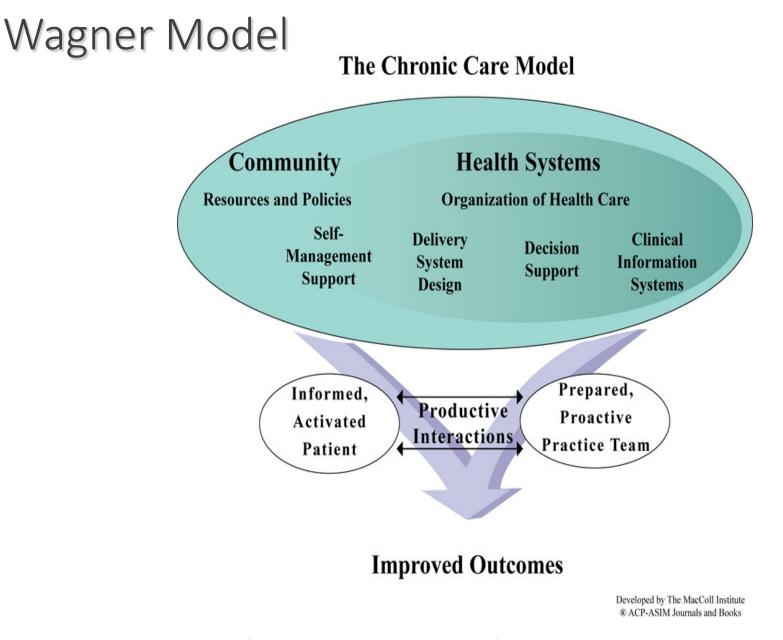
Used in Program Evaluation and Econometric Modeling to:

- 1. Delineate vision/purpose for a project
- 2. Surface assumptions, environmental issues and needed knowledge, skills and attitudes
- 3. Specify relationships among program goals, objectives, activities, outputs, and outcomes.
- 4. Clearly indicate the theoretical connections among program components; activities involved, who carries out the activities and specification of short, medium and long term outcomes.
- Set up evaluation by assisting with development of the measures used to determine if activities were carried out (process and output measures) and if the program's objectives are met (outcome measures). <u>https://www.bja.gov/evaluation/guide/pe4.htm retrieved 8/11/2013</u>.

Program: RN-CCTM Model Logic Model © S. Haas & B. A. Swan

Situation: The Registered Nurse - Care Coordination Transition Management Model (RN-CCTM) evolved to standardize work of ambulatory care nurses using evidence from interdisciplinary literature on care coordination and transition management. The vision is the RN-CCTM Model would specify dimensions of CCTM and competencies needed to perform CCTM and make possible development of knowledge, skills and attitudes needed for each competency so the RN-CCTM will meet needs of patients with complex chronic illnesses being cared for in Patient Centered Medical Homes (PCMH) and their preparation and work as an RN-CCTM would be recognized by a certificate credential from the American Nurses Credentialing Center (ANCC) and reimbursed by CMS.





Reprinted with permission from the American College of Physicians. Wagner EH. <u>Chronic disease</u> <u>management: What will it take to improve care for chronic illness?</u> *Effective Clinical Practice*. 1998; 1:2-4.

Focus Groups Convened

- Expert Panel 1
- Expert Panel 2
- Expert Panel 3
- Expert Panel 4



Expert Panels

- Represented:
 - Practice and Education;
 - Multiple nursing positions
 - Public, Private, Military, and Veterans Organizations;
 - 15 States in East, West, North, South, and Central United States



AAACN CCTIVI Experts

Karen Alexander, MSN, RN, CCRN	Diane Kelly, DrPH, MBA, RN
Thomas Jefferson University	Duke University Cooperatives
Janine Allbritton, RN, BSN	Lisa Kristosik, RN, MSN
Baylor University Medical Center	VNA of Cleveland
JoAnn Appleyard, PhD, RN	Cheryl Lovlien, MS, RN-BC
University of Wisconsin, Milwaukee	Mayo Clinic
Jill Arzouman, MS, RN, ACNS, BC, CMSRN, AMSN Treasurer	Rosemarie Marmion, MSN, RN-BC, NE-BC
University Medical Center Tucson	AAACN
Deborah Aylard, MSN, RN	Nancy May, RN-BC, BSN, MSN
Core Physicians	Scott White Health
Deanna Blanchard, MSN, RN	Sylvia McKenzie, MSN, RN, CPHQ
UW Health University of Wisconsin	University of Washington
Elizabeth Bradley, MSN, RN-BC	Kathy Mertens, RN, MN, MPH
VA Pasco OPC	Harborview Medical Center
Stefanie Coffey, DNP, MBA, FNP-BC, RN-BC	Shirley Morrison, PhD, RN, OCN
The Villages, VA Outpatient Clinic	Texas Women's University
Sandy Fights, MS, RN, CMSRN, CNE	Janet Moye, PhD, RN, NEA-BC
AMSN President	George Washington Univ. Center for HC Quality
Jan Fuch, MBS, MSN, NEA-BC	Donna Parker, MA, BSN, RN-BC
Cleveland Clinic	James H. Quillen VA Medical Center
Patricia Grady, BSN, RN, CRNS, FABC	Carol Rutenberg, RN-BC, C-TNP, MNSc
Lahey Clinic Medical Center	ouror nuterisery, nu bo, o nur, nuoc
Jamie Green, MSN, RN	Deborah Smith, DNP, RN
Kaiser Permanente	Georgia Health Sciences University
Denise Hannigan, RN-BC, MSN, MHA	Debra Toney, PhD, RN, FAAN
Cedars-Sinai	Federally Qualified Health Center
Clare Hastings, RN, PhD, FAAN	Barbara Trehearne, PhD, RN
NIH Clinical Center	Group Health
Anne Jessie, MSN, RN	Linda Walton, MSN, RN, CRNP
Carillon Clinic	Orlando Health Physician Group
Sheila Johnson, RN, MBA	Stephanie Witwer, PhD, RN, NEA-BC
Dartmouth-Hitchcock Accountable Care Programs	Mayo Clinic
CDR Catherine McNeal Jones, MBA, HCM, RN BC	
USN Family Practice Clinic	

First Expert Panel

- Provided with results of a search in MEDLINE, CINAHL Plus, and PsycINFO that yielded 82 journal articles plus white papers available on line from major organizations
- 26-member panel worked in dyads and abstracted data to a table of evidence (TOE)
 - Each dyad reviewed four to five articles and needed to reach consensus on items for TOE
 - Then abstracted the information onto the template table of evidence



Second Expert Panel

- 16-member panel was charged with:
 - Defining the dimensions, identifying core competencies
 - Describing the activities linked with each competency for care coordination and transition management in ambulatory settings
- Using focus group methods online, the expert panel identified nine patient-centered care dimensions and associated activities of care coordination and transition management

Competencies: Knowledge, Skills and Attitudes

- The Quality and Safety in Education in Nursing (QSEN) format was used for each care coordination and transition management dimension identified (Cronenwett et al., 2007)
- Panelists were asked to identify the knowledge, skills, and attitudes identified in the literature, and if absent to use expert opinion to specify each



American Academy of Ambulatory Care Nursing Expert Panel on Care Coordination and Transition Management

DIMENSIONS, ACTIVITIES, COMPETENCIES

ACTIVITY(IES) Please use quotes in quotation marks directly from article text with p. #	COMPETENCY(IES): KNOWLEDGE (K) SKILL (S) ATTITUDE (A) If not available in text, feel free to construct KSAs of your own after reading the article, but cite as yours	EVIDENCE (LIST # OF CITATION/REFERENCE)
Assessment of Readiness to	Knowledge: knows questions	
Leam	to ask and cues to look for	
Development and use of content that is age, education level and culturally appropriate Evaluation of learner understanding of content taught	regarding physical, psychological and social readiness to learn Skills: Uses techniques that invite/engage patient and significant others in learning Uses techniques to assess learning such as "teach back"	
	Attitudes: Demonstrates creativity in planning	
	Please use quotes in quotation marks directly from article text with p. # Assessment of Readiness to Learn Development and use of content that is age, education level and culturally appropriate Evaluation of learner	Please use quotes in quotation marks directly from article text with p. #KNOWLEDGE (K) SKILL (S) ATTITUDE (A)Assessment of Readiness to LearnIf not available in text, feel free to construct KSAs of your own after reading the article, but cite as yoursAssessment of Readiness to LearnKnowledge: knows questions to ask and cues to look for regarding physical, psychological and social readiness to learnDevelopment and use of content that is age, education level and culturally appropriateKnowledge: knows questions to ask and cues to look for regarding physical, psychological and social readiness to learnSkills: Uses techniques that invite/engage patient and significant others in learningUses techniques to assess learning such as "teach back"



Second Expert Panel Outcomes

- Identified nine dimensions:
- 1. Support for self-management
- 2. Education and engagement of patient and family
- 3. Cross setting communication and transition
- 4. Coaching and counseling of patients and families
- 5. Nursing process including: assessment, plan, implementation, and evaluation; a proxy for monitoring and intervening
- 6. Teamwork and collaboration
- 7. Patient-centered care planning
- 8. Decision support and information systems
- 9. Advocacy
- Identified competencies needed for each dimension including knowledge, skills, and attitudes.

Dimensions, Activities, and Competencies for Care Coordination and Transition Management

		Competency(les)	
		Knowledge (K)	Evidence (List
		Skills (S)	Citation/
Dimension	Activity/icc)		References)
	Activity(ies)	Attitude (A)	
Education & Engagement of	to learn	<i>Knowledge:</i> Knows questions to ask and cues to look for regarding physical, psychological, and social readiness to learn.	Boult, et al. (2008). Early effects of "guided
Patient and		privsical, psychological, and social reduitiess to learn.	care" on the quality of
Family	Development and use of	<i>Skills:</i> Uses techniques that invite/ engage patient and significant	health care for
T GITTINY	content that is age,	others in learning. Uses technique to assess learning such as "teach	multimorbid older
	education level, and	back."	person: A cluster-
	culturally appropriate		randomized controlled
		Attitude: Demonstrates creatively in planning appropriate learning	trial.
	Evaluation of learner	experiences for patients and significant others.	
	understanding of content		Coleman, et al. (2007).
	taught	Knowledge: Identifies questions to ask to holistically design an	Effectiveness of team
		integrated care plan that encompasses a variety of care methods to	managed home-based
	Performance of eight		primary care
	clinical processes:	maintain the highest level of function.	
	"assessing the patient		
	and primary caregiver at	Has awareness of known risk factors that place a patient at risk for re-	
	home, creating an	hospitalization or exacerbation and utilizes knowledge and critical	
	evidence-based care	thinking to identify actions to mitigate risk.	
	plan, promoting patient self-management,	Skills: Identifies full range of medical, functional, social, and emotional	
	monitoring the patient's	problems that increase patient's risk of adverse health events.	
	conditions monthly,		
	coaching the patient to	Addresses identified needs through education, self-care, optimization	
	practice healthy	of medical treatment, and integration of care fragmented by care	
	behaviors, coordinating	setting and provider.	
	the patient's transitions		
	between sites and	Monitors patients for progress and early signs of problems.	
	providers of care,		
	educating and supporting	Utilizes data collection and analysis to design interventions to improve	
	the caregiver, and	patient outcomes.	
	facilitating access to		
	community resources"	Attitude: Values the services available to patients by delivering	
	(Boult, et al., 2008, pp.	services that facilitate beneficial, efficient, safe and high-quality patient	
	321-322).	experiences and improve patient care outcomes.	

Competency(ies)

Third Expert Panel

- Reviewed, confirmed, and created a table of dimensions, activities, and competencies (including knowledge, skills, attitudes) for ambulatory care RN care coordination and transition management
- After much discussion, they determined the original 8th dimension of decision support and information systems, as well as, telehealth practice were technologies that support all dimensions
- Population Health Management became the new 8th dimension given:
 The prominence it is assuming in
 - The prominence it is assuming in outpatient care even though there was little discussion of it in the literature reviewed



Table 3. Cross Walk of Dimensions for Care Coordination and TransitionManagement with Core Competencies

			Public Health Nursing Competencies
			http://www.resourcenter.net/imag
Dimension RN Care	Quality and Safety Education	Interprofessional Education	es/ACHNE/Files/QuadCouncilCompe
Coordinator and	for Nurses (QSEN) Core	Collaborative Core Competencies	tenciesForPublicHealthNurses Sum
Transition Manager (RN-	Competencies	http://www.aacn.nche.edu/educat	<u>mer2011.pdf</u>
сстм)	www.qsen.org	ion-resources/ipecreport.pdf	
Support Self-Management	Patient-centered Care		
Education & Engagement	Patient-centered Care		
of Patient & Family			
Cross Setting	Patient-centered Care	Interprofessional Communication	Domain #3: Communication Skills
Communication and			
Transition			
Coaching and Counseling	Patient-centered Care		Domain #4: Cultural Competency
of Patients and Families			Skills
Nursing Process:	Evidence-based Practice Quality	Roles and Responsibilities	Domain #1: Analytic Assessment
Assessment, Plan,	Improvement		Skills
Intervention, Evaluation			
Teamwork and	Teamwork and Collaboration	Teams and Teamwork	Domain #8: Leadership and System
Collaboration			Thinking Skills
Patient-Centered Planning	Patient-centered Care	Values/Ethics for Interprofessional	Domain #1: Analytic Assessment
		Practice	Skills
Population Health	Quality Improvement		Domain #5: Community Dimensions
Management	Informatics		of Practice Skills
			Domain #6: Basic Public Health
			Sciences Skills
Advocacy	Patient-centered Care		Domain #2: Policy
	Safety		Development/Program Planning
			Skills

Population Health Management: Knowledge, Skills, and Attitudes for Competency Teamwork and Collaboration						
Analyze strategies for identifying and managing overlaps in team member roles and accountabilities.	Function competently within own scope of practice as a member of the health care team.	Respect the unique attributes that members bring to a team, including variation in professional orientations, competencies, and accountabilities.	Cronenwett et al., 2007			
	Solicit input from other team members to improve individual, as well as team, performance.	Respect the centrality of the patient/family as core members of any health care team.				
	Assume role of team member or leader based on the situation.					
	Guide the team in managing areas of overlap in team member functioning.		Cronenwett et al., 2009			
"Describe the process of team development and scopes of practice and roles of all health care team members."	Empower "contributions of others who play a role in helping patients/ families achieve health goals."		Interprofessional Education Collaborative (IPEC), 2011, p. 25			
"Share accountability with other professions, patients, and communities for outcomes relevant to prevention and health care."						
"Apply leadership practices that support collaborative practice and team effectiveness."						
		Value the contributions of all members of the care team in population care planning and health care management.	Jessie et al., 2014			

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Challenges with Use of CCTM with Complex Chronically III Patients

- Developing and using position descriptions that incorporate CCTM Competencies
 - Developing education and evaluation methods that foster CCTM Competencies involving QSEN KSAs within and across professions
- Developing staffing models to support/resource the interprofessional team
- Building human resources/team configuration to support CCTM
- Creating an environment (physical and cultural) to support CCTM
- Choosing and using a tool to stratify Complex Chronically III patients that incorporates social determinants
 Developing/standardizing communication methods for
- Developing/standardizing communication methods for communication across settings and between interprofessional team members
- Developing, testing and using process and outcome indicators to track the impact and value of RN-CCTM



What are social determinants of health?

- Social determinants of health are the conditions in which people are born, grow, live, work and age.
- Patterns of social engagement and sense of security and well-being are also affected by where people live <u>http://www.who.int/social_determinants/sdh_definition/en</u>
- Social determinants of health are mostly responsible for health inequities - the unfair and avoidable differences in health status seen within and between countries.
- Resources that enhance quality of life can have a significant influence on population health outcomes.
 - Examples of these resources include:
 - safe and affordable housing,
 - access to education, public safety,
 - availability of healthy foods,
 - local emergency/health services,
 - environments free of life-threatening toxins http://www.healthypeople.gov/2020/topicsobjectives/topic/social-determinants-health



Advantages of Use of Dimensions of CCTM

- Dimensions provide evidence-based assessments, interventions and expected outcomes
- Population Health Management focuses attention on need to address best evidence-based practice for defined populations, prior to individualizing care
- Suggest use of standardized communication tools to enhance transition management between providers and settings
- Suggest use of extant evidence-based algorithm for assessment, planning interventions for complex chronic illnesses
- Structures a layout for EHR documentation screens that provide data for:
 - Decision support tool development
 - Evidence of contribution to comes by distinct members of the interprofessional team
 - Provide data to assist with staffing models
 - Provide evidence of nurse contribution to outcomes of care

What does RN-CCTM Practice Involve?

- Teamwork and Collaboration (huddles and interprofessional report/care planning)
- Establishing an ongoing relationship Education and Engagement
- Population Health Management (use of evidence-based population guidelines)
- Patient-centered Care Planning (EB guideline interventions modified as needed based on patient values, preferences and goals)
- Assessment (may involve home visits at least initially) and Surveillance (use of smart phones, skype, patient portals, community resources for BP Monitoring etc.)
 - Acute care nurse use of BOOST[®] 8Ps assessment, interventions and evaluation to stratify and prepare for discharge
 - Primary care nurse use BOOST[®] 8Ps assessment, interventions and evaluation to stratify and determine level of surveillance
- Coaching and Counseling
- Support for Self Management
- Cross Setting Communication and Transition Management (sharing of [®] BOOST [®] standardized communication tools with patient movement between settings and providers)
- Advocacy (for insurance coverage, medications, equipment, living conditions)
- Nursing Process (documentation in EHR where assessments, interventions, and outcomes are coded in standardized language (SNOMED-CT) so effectiveness can be evaluated



Prerequisites to successful care transitions with complex chronically ill:

- Focus on Patient Goals for life post transition
- **Staffing** for successful transitions:
 - **CCTM RNs** to advocate for patients, educate and engage patients, coach and counsel, support self management, do cross setting communication and act as a "go to" resource for issues, concerns versus going to ED
 - **Pharmacists** to do medication history, medication reconciliation, identify polypharmacy and identify potential adverse effects and educate patients regarding high risk meds
 - Social Workers to arrange transfer to appropriate environments, recommend use of community resources, interface with insurance funding for drugs, equipment
 - **Dieticians** to plan and teach appropriate diet programs
 - Psychologists to work with patients with depression

Prerequisites to successful care transitions with complex

chronically ill (Toth-West, Newman & Gertz [in press] Person Centered Care Planning in *Care Coordination and Transition Management* 2nd ED. (Haas, Swan & Haynes, Eds. Pitman, NJ: Anthony J. Jannetti)

- Considerations for patients with dementia:
- Components of a good transitions of care for a person with dementia should involve three components:
 - Attempts to support adaptation to a new environment or maintaining the current environment
 - caregiver involvement and support in the person-centered care plan
 - Support for managing challenging behaviors (Ray, Ingram, & Cohen-Mansfield, 2015)
 - Comprehensive assessment of the patient (including the Mini-Cog exam, PHQ-2 or 9 questions and the Caregiver Strain index).
 - Evaluate and understand baseline status of patient
 - Home safety assessment; address any gaps in plan of care
 - Assess needs of caregiver. Caring for those with dementia can have both an emotional and physical toll. Assist planning for respite care as needed.
 - Recommend community resources available for both the patient and caregiver
 - Educate and coach caregiver to ensure patient medication adherence

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