



Care Coordination Measures Atlas: Examples in Practice

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Care Coordination Measures Atlas





- Measures of process
- Applicable to ambulatory care
- Publicly available
- Validity and/or reliability testing

Available at:

http://www.ahrq.gov/profession als/prevention-chroniccare/improve/coordination/atla s2014/index.html

Care Coordination Measures Atlas



- Updated June 2014
 - ▶ 80 measures
 - New chapter on EHRbased measures and other new trends



Care Coordination Domains

- Hypothesized to support coordinated care
- Could be used systematically or ad hoc
- Broad approaches extend beyond coordination

Together, these domains are key for characterizing measures

COORDINATION ACTIVITIES

Establish Accountability or Negotiate Responsibility Communicate **Facilitate Transitions** Assess Needs and Goals Create a Proactive Plan of Care Monitor, Follow Up, and Respond to Change Support Self-Management Goals Link to Community Resources Align Resources with Patient and Population Needs **BROAD APPROACHES** Teamwork Focused on Coordination Health Care Home Care Management Medication Management Health IT-Enabled Coordination

Measurement Perspectives

- Experience of coordination differs by perspective
- CCM Atlas calls out 3 key measurement perspectives:
 - Patient/family
 - Surveys of patients or caregivers
 - Health care professional
 - Surveys of clinicians (completed as individuals or teams)
 - Reflect their own actions/caregiving practices

System Representative

- Surveys of system administrators/leaders
- Clinician leaders: when respond on behalf of organization, not own actions or practices
- Medical record (paper or electronic)
- Administrative claims data

Measure Mapping Table

	MEASUREMENT PERSPECTIVE					
	Patient/Family	Healthcare	System			
		Professional(s)	Representative(s)			
CARE COORDINATION ACTIVITIES						
Establish accountability or negotiate responsibility						
Communicate						
Interpersonal Communication						
Information Transfer						
Facilitate transitions						
Across settings						
As coordination needs change						
Assess needs and goals						
Create a proactive plan of care						
Monitor, follow-up, and respond to change						
Support self-management goals						
Link to community resources						
Align resources with patient and population needs						
BROAD APPROACHES POTENTIALLY RE	LATED TO CARE COOF	RDINATION				
Teamwork focused on coordination						
Healthcare Home						
Care Management						
Medication Management						
Health IT-enabled coordination						

Example Research Question

 Understand how coordination and teamwork among providers within our primary care clinic impacts medication reconciliation.



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- Understand how coordination and teamwork among providers within our primary care clinic impacts medication reconciliation.
- Whose perspective is most of interest?
- Which domain(s) most of interest?



Example Research Question

- Understand how coordination and teamwork among providers within our primary care clinic impacts medication reconciliation.
- Whose perspective is most of interest? \rightarrow Health Care Professional

Which domain(s) most of interest?

- \rightarrow Medication Management
- → Teamwork Focused on Coordination



Example Measure Selection

Health Care Professional Perspective Measures

	MEASUREMENT PERSPECTIVE: Health Care Professional(s)			
CARE COORDINATION ACTIVITIES				
Establish accountability or negotiate responsibility	5, 7a, 7b, 11b, 18, 20, 22b, 38c, 38d, 38e, 43, 46, 62, 74, 77			
Communicate	5, 7a, 7b, 11b, 12a, 12b, 17d, 22b, 23, 38e, 38f, 43, 46, 62, 74, 77			
Interpersonal communication	7a, 7b, 8, 11b, 12a, 12b, 17d, 18, 22b, 28, 43, 74, 75, 77			
Information transfer	5, 8, 11b, 12a, 12b, 17d, 18, 20, 22b, 23, 27, 38c, 38d, 38e, 38f, 62, 74, 75, 77			
Facilitate transitions [‡]				
Across settings	5, 17d, 22b, 27, 43, 38c, 38d, 38e, 38f, 74, 75, 77			
As coordination needs change	11b, 22b			
Assess needs and goals	5, 11b, 12a, 12b, 17d, 20, 23, 27, 38d, 38e, 38f, 43, 46, 74			
Create a proactive plan of care	5, 7b, 8, 11b, 12a, 22b, 23, 27, 38e, 38f, 62			
Monitor, follow up, and respond to change	5, 11b, 12a, 12b, 17d, 20, 22b, 23, 74, 75, 77			
Support self-management goals	5, 8, 11b, 17d, 20, 22b, 38d, 38e, 38f, 74			
Link to community resources	5, 11b, 17d, 22b, 27, 38e, 74			
Align resources with patient and population needs	5, 8, 11b, 17d, 20, 38d, 38e, 74			
BROAD APPROACHES POTENTIALLY RE	LATED TO CARE COORDINATION			
Teamwork focused on coordination	7a, 7b, 11b, 12a, 12b, 18, 23, 27, 28, 43, 46, 62, 74			
Health care home	17d, 74			
Care management	5, 11b, 22b, 27			
Medication management	17d, 18, 20, 38c, 38e, 38f			
Health IT-enabled coordination	12a, 17d, 75			

Health Care Professional look-up table

- Medication management: n = 6
- Teamwork: n = 13
- Use measure profiles to get more info about each

† A key to measure numbers can be found in Table 10. Index of Measures.

‡ All measure items addressing transitions were mapped to one of the specific transition types (across settings or as coordination needs change).

Closer Look at Resulting Measures

17d. Primary Care Assessment Tool – Provider Edition

Purpose: To measure primary care quality and the extent to which it meets consumer needs, as identified from the provider perspective.

Format/data source: 153-item survey with coverage of...

Measure Item Mapping:

- Communicate:
 - Between health care professional(s) and patient/fam
 - Interpersonal communication:
 - Between health care professional(s) and patient/fam I1, I4-I10,
 - Information transfer:
 - Between health care professional(s) and patient/fam.
 - Across health care teams or settings: E10, E11
- Facilitate transitions:
 - Across settings: E9
- Assess needs and goals: D7, D9, E8, I1, I11-I14,
- Monitor, follow up, and respond to change: C8, E7, E11, E1
- Support self-management goals: G1-G25, H1-H18
- Link to community resources: J13-J17, J21-J23
- Align resources with patient and population needs: C1-C9,]
- Health care home: 14
- Medication management: D13, F8, H7
- Health IT-enabled coordination: 13, D1

38c, 38e, 38f. PREPARED Survey

38c. PREPARED – Residential Care Provider Version

Purpose: To gather information on the quality of process and outcomes of discharge planning activities undertaken in the acute hospital setting from the residential care staff perspective.

38e. PREPARED – Medical Practitioner Version

Purpose: To gather information on the quality of process and outcomes of discharge planning activities undertaken in the acute hospital setting from the medical practitioner perspective.

38f. PREPARED – Modified Medical Practitioner Version

Purpose: To measure qualities of hospital discharge from the outpatient physician perspective.



Don't reflect medication management as performed by primary care clinicians

Closer Look at Resulting Measures

18. Physician-Pharmacist Collaboration Instrument

Purpose: To assess physician-pharmacist collaborative relationships across three domains: trustworthiness; role specification; relationship initiation.

Surveys can be directed at physicians and pharmacists respectively: questions are identical with provider title (physician/pharmacist) interchanged depending on the study population.

Format/Data Source: 14-item survey that consists of...

Measure Item Mapping:

- Establish accountability or negotiate responsibility: 1, 5-8
- Communicate:
 - Interpersonal communication:
 - Across health care teams or settings: 3, 11
 - Information transfer:
 - Across health care teams or settings: 13
- Teamwork focused on coordination: 9, 12
- Medication management: 7, 8
- Just 2 items specifically on medication mgt

+ Other items focus on areas of interest to RQ (teamwork, shared responsibility, collaboration)

20. Family Medicine Medication Use Processes Matrix

Purpose: To measure the perception of primary care physicians (family practice) in regard to pharmacists' contributions within the practice.

Format/Data Source: 22-item Family Medicine Medication...

Measure Item Mapping:

- Establish accountability or negotiate responsibility: 13
 - Information transfer:
 - Within teams of health care professionals: 20
 - Participants not specified: 17
- Assess needs and goals: 4, 9
- Monitor, follow up, and respond to change: 9, 11, 12
- Support self-management goals: 9, 19
- Align resources with patient and population needs: 19
- Medication management: 3, 5, 7, 10, 15-18, 20



- + Strong focus on medication management
- Only one-sided view (PCP view of pharmacist)

CCM Atlas Appendix

Measure instruments and contact info for most measures in Atlas Appendix:

http://www.ahrq.gov/professionals/prevention-chroniccare/improve/coordination/atlas2014/appendix4a.pdf

Measure #18: Physician-Pharmacist Collaboratic (PPCI)

Contact Information:

For questions regarding this measure and permission to

Copyright Details:

The copy of the measure instrument that follows is re permission from: Alan J. Zillich. The Physician-Pharmaci Instrument (PPCI) is the intellectual property of Alan J Agency for Healthcare Research and Quality (AHRQ) nonexclusive, royalty-free, worldwide license to print zerry in the Care Coordination Measures Atlas...

For our practices, I need this physician as much as this physician needs me.	1	2	3	4	5	6
This physician is credible.	1	2	3	4	5	6
My interactions with this physician are characterized by open communication by both parties.		2	3	4	5	6
I can count on this physician to do what he/she says.	1	2	3	4	5	6
This physician depends on me as much as I depend on them.	1	2	3	4	5	6
This physician and I are mutually dependent on each other in caring for patients.		2	3	4	5	6
This physician and I negotiate to come to an agreement on my activities in managing drug therapy.		2	3	4	5	6
This physician will work with me to overcome disagreements on my role in managing drug therapy.	1	2	3	4	5	6
I intend to keep working together with this physician.		2	3	4	5	6

Selecting Instruments vs. Items

Cherry-picking key items is tempting, but:

Measure Item Mapping:

- Communicate:
 - Between health care professional(s) and patient/fam.
 - Interpersonal communication:
 - Between health care professional(s) and patient/fam
 I1, I4-I10.
 - Information transfer:
 - Between health care professional(s) and patient/fam
 - Across health care teams or settings: E10, E11
- Facilitate transitions:
 - Across settings: E9
- Assess needs and goals: D7, D9, E8, I1, I11-I14,
- Monitor, follow up, and respond to change: C8, E7, E11, E1
- Support self-management goals: G1-G25, H1-H18
- Link to community resources: J13-J17, J21-J23
- Align resources with patient and population needs: C1-C9, 1
- Health care home: 14
- Medication management: D13, F8, H7
- Health IT-enabled coordination: 13, D1

- Reliability and validity testing no longer applies when modifying instrument
- If select items or adapt, revisit reliability and validity testing
- Talk to measure developer! They might have good ideas...

Coming Soon... Care Coordination Measures Database





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