Implementing Integrated, Interdisciplinary Clinical Care Management in the Patient-Centered Medical Home

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Disclosures

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Seminar Objectives

Participants will be able to:

– Explain the role of the clinical care manager
– Name at least three critical success factors for effective implementation of an integrated, interdisciplinary clinical care management (CCM) system in primary care practices
– Identify the 5 phases of clinical care management Continuum of Care
– Name and describe the 4 key components of an integrated interdisciplinary care plan
– List 3 strategies for successful interdisciplinary team collaboration
Seminar Outline

1. MA Patient-Centered Medical Home Initiative
2. Overview of Clinical Care Management
3. The CCM Continuum of Care: A Patient Case Study
   - Activity #1: Identifying the highest risk patient
   - Activity #2: Intake Assessment and developing an integrated care plan
   - Discussion: Evaluating care plan effectiveness/discharging patients from clinical care management
4. Wrap-up
The Patient-Centered Medical Home Represents a Paradigm Shift

• From episodic, visit based care to a more proactive approach to care which is person-centered

• Shifting from a “sick-care” system to a “health-care” system

• Requires a team-based approach to care delivery

• Coordination and integration of care – important components
MA Patient-Centered Medical Home Initiative

- Statewide initiative
- Sponsored by MA EOHHS
- Multi-payer
- 44 participating practices
- 3 year demonstration
- Start date: March 29, 2011

- **Vision:** All MA primary care practices will be PCMHs by 2015

Join the conversation on Twitter: #CPI13
Care Coordination…….Care Management: Populations of Focus

20% Panel: Care Coordination

10% Panel: Clinical Follow-up Care

5% Panel: Care Management

Adapted from: ©MacColl Institute for Healthcare Innovation, Group Health Research Institute 2011
Clinical Care Management (CCM) Scope of Service... The CCM “Continuum of Care”

Identify Highest Risk Patients
Intake Assessment & integrated Care Plan Development
Implement Care Plan & CCM Interventions
Ongoing Assessment, Evaluation & Updating of Care Plan
Evaluation/Discharge from CCM Services

Tracking, Coordinating & Managing Care of Highest Risk Patients across the “Continuum”
Clinical Care Management System Components

**System for Identifying Highest Risk Patients:**
Hospital & ED Visit Notifications, Provider/Team Referrals, Payer Data

**System for Tracking and Managing Care of Highest Risk Patients:**
Clinical Care Management Highest Risk Registry

**System for Delivery of Clinical Care Management Services:**
Workflows for interdisciplinary team communication & collaboration in the development, implementation, & evaluation of the care plan

**Care Coordination and Referral System:**
Communication system with interdisciplinary care team, external providers & community resources; tracking of referrals and their completion

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Care Manager’s Role

• Leading and coordinating the Clinical Care Management process
• Identifying, tracking and managing care of “highest risk” patients
• Overseeing the development of an individualized and integrated (medical and behavioral health) patient care plan
• Overseeing the Implementation of the integrated care plan
• Ongoing clinical assessment, monitoring and follow-up of highest risk patients
Care Manager’s Role, cont’d

- Behavioral patient activation interventions, including motivational interviewing and self management support
- Patient teaching
- Medication review, reconciliation and coordination with a licensed professional for medication adjustment
- Intense medical and medication management
- Intense transition management
- Ensuring care coordination of highest risk patients across the practice & healthcare system
Interdisciplinary Team Workflow for Clinical Care Management (CCM)

Bi-weekly CCM Interdisciplinary Team Meetings:
- Identify HR patients/validate HR list
- Review/discuss patients
- Develop/update/evaluate care plans

Develop care plan for each Highest Risk patient to include:
- Patient Assessment
- Problem List (Risk Drivers)
- Goals & Interventions

Determine team member responsibilities re: care plan implementation

Care Manager (CM) finalizes care plan with patient

Implementation & evaluation/updating of care plan:
- By care manager with team input
The Clinical Care Management “Continuum of Care”
A Patient Case Study
The Clinical Care Management (CCM) “Continuum of Care” .....
Our Patient

60 y/o male referred to care manager per office-based provider referral:

- 3 ED visits past 6 months
  - Most recent, 2 weeks ago w/ chest pain resulting in inpatient admission to r/o MI (negative)
- Dx: morbid obesity, hypertension, CAD, asthma/COPD, dementia, major depressive disorder, hyperlipidemia, chronic pain
- Medications: metoprolol, NTG, ASA, lisinopril, simvastatin, cholestyramine, warfarin, morphine, memantine, aripiprazole, citalopram, amitriptyline, montelukast, budesonide/formoterol, albuterol
Our Patient, cont’d

- Physical/Functional/Cognitive Impairments:
  - Self care deficit
  - Knowledge deficit
  - Memory loss

- Behavioral Health Concerns: depression, high stress level

- Safety: bleeding risk 2° warfarin therapy, cognitive impairment

- Socioeconomic: financial barriers

- Support Systems: considerable family responsibility for grandchildren; few available supports
Is Our Patient “Highest Risk?”

• Why? Why not?
• How would we determine if he is or is not appropriate for referral to Clinical Care Management Services?
Activity #1:

Risk Stratification & Discussion of Risk Drivers
# Identifying Highest Risk Patients/Risk Assessment

## Complex Care Management Triage Tool

<table>
<thead>
<tr>
<th>Patient Name: __________________________</th>
<th>MRNH: __________________________</th>
</tr>
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<tbody>
<tr>
<td>Referred by: __________________________</td>
<td>Referral Date: _______</td>
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<tr>
<td>Triaged by: __________________________</td>
<td>Triage Date: _______</td>
</tr>
<tr>
<td>Patient Activation: Patient willing to engage in CM: Yes/No</td>
<td>Patient knows of referral: Yes/No</td>
</tr>
</tbody>
</table>

### Higher Risk Drivers (3 Points Each)

<table>
<thead>
<tr>
<th>Points</th>
<th>Utilization:</th>
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<tbody>
<tr>
<td></td>
<td>- Inpatient admission in past 30 days OR</td>
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<tr>
<td></td>
<td>- 2+ Inpatient admissions in past 6 months OR</td>
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<tr>
<td></td>
<td>- 2+ ED visits in past 6 months (medical or psych) OR</td>
</tr>
<tr>
<td></td>
<td>- 30-day Readmission in past year</td>
</tr>
</tbody>
</table>

### High Risk of:
- Inpatient admission/ED visits in next 6 months
- Decline in functional status/need for long term care in next 6 months

### Moderate Risk Drivers (2 Points Each)

| Chronic Disease(s): High Risk: poorly controlled (2 Points Each) | __CAD __CHF __Diabetes __COPD __Chronic Pain __End stage disease: |
| RX Meds: 10+ active prescriptions OR recent change in high risk meds (anticoagulant, insulin, etc.) |

### Disengage ment: significant chronic condition(s) and (2 Points Total)
- inadequate follow-up with PCP, or
- not following care plan, or
- specialty care without coordination

### Disability: significant Physical/ Mental/ Learning disability which impacts reasons for referral

### Psycho-Social risk factors which prevent adequate mgmt of high risk diseases (2 Points Each)
(examples: language, literacy, safety, homelessness, poor supports, etc.)

### Substance Abuse: Actively using, newly sober, motivated to change (2 Points Total)

### Mental Health Diagnosis that is severe, persistent, and uncontrolled (2 Points Total)
(examples: Major Depression, Bipolar, Schizophrenia, Debilitating Anxiety, etc.)

### Fundamental Risk Drivers (1 Point Each)

| Chronic Disease/ Comorbidities: not well controlled and not noted above (1 Point Each) |
| Functional Impairments: fall risk, impaired ADLs, impaired ambulation, impaired judgment, difficulty getting to appts, unable to follow med regimen (1 Point Each) |

### Total Score

- **15 or greater = Highest Risk**
- **< 15 = Does not meet criteria for Care Management**

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Activity #1

1. Break up into groups

2. Complete Triage Tool utilizing the patient case provided

3. Answer these questions:
   - Are these the right criteria?
   - Who in your practice would complete this assessment?
   - How would you implement this assessment and communicate across your practice?

3. Reconvene for debrief/discussion
### Complex Care Management Triage Tool

<table>
<thead>
<tr>
<th>Points</th>
<th>Utilization</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>- Inpatient admission in past 30 days OR</td>
</tr>
<tr>
<td></td>
<td>- 2+ inpatient admissions in past 6 months OR</td>
</tr>
<tr>
<td></td>
<td>- 2+ ED visits in past 6 months (medical or psych) OR</td>
</tr>
<tr>
<td></td>
<td>- 30-day Readmission in past year</td>
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<table>
<thead>
<tr>
<th>Points</th>
<th>High Risk of</th>
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<tbody>
<tr>
<td>3</td>
<td>- Inpatient admission/ED visits in next 6 months</td>
</tr>
<tr>
<td></td>
<td>- Decline in functional status/need for long term care in next 6 months</td>
</tr>
</tbody>
</table>

### Moderate Risk Drivers (2 Points Each)

<table>
<thead>
<tr>
<th>Points</th>
<th>Chronic Disease - High Risk poorly controlled (2 Points Each)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CAD, CHF, COPD, Chronic Pain, End stage disease, Diabetes</td>
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</table>

<table>
<thead>
<tr>
<th>Points</th>
<th>RX Meds: 10+ active prescriptions OR recent change in high risk meds (anticoagulant, insulin, etc.)</th>
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<tr>
<td>2</td>
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<table>
<thead>
<tr>
<th>Points</th>
<th>Disengagement: significant, chronic condition(s) and (2 Points Total)</th>
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<tbody>
<tr>
<td></td>
<td>- inadequate follow-up with PCP, or</td>
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<td>- not following care plan, or</td>
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<th>Points</th>
<th>Disability: significant Physical/Mental/ Learning disability which impacts reasons for referral (2 Points Total)</th>
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</table>

<table>
<thead>
<tr>
<th>Points</th>
<th>Psycho-Social risk factors which prevent adequate mgmt of high risk diseases (2 Points Each) (examples: language/literacy, safety, homeless, poor supports, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Points</th>
<th>Substance Abuse: Actively using, newly sober, motivated to change (2 Points Total)</th>
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<tbody>
<tr>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Points</th>
<th>Mental Health DX that is severe, persistent, and uncontrolled; Major Depression, Bipolar, Schizophrenia, Debilitating Anxiety, etc. (2 Points Total)</th>
</tr>
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<tbody>
<tr>
<td>2</td>
<td></td>
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</tbody>
</table>

### Fundamental Risk Drivers (1 Point Each)

<table>
<thead>
<tr>
<th>Points</th>
<th>Chronic Disease/Comorbidities - not well controlled/ not noted above (1 Point Each)</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Points</th>
<th>Functional Impairments - Fall risk, impaired ADLs, impaired ambulation, impaired judgment, difficulty getting to appointments, unable to follow med regimen (1 Point Each)</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>Total Score 15 or greater = Highest Risk – offer Complex CM &lt; 15 = Does not meet criteria for Complex CM</td>
</tr>
</tbody>
</table>
The Clinical Care Management (CCM) “Continuum of Care” .....
Intake Assessment: The 4 Domains

The Team = Patient, Providers, RN Care Manager, patient’s support network
# Intake Assessment Template

**Intake Assessment**

[Date]

<table>
<thead>
<tr>
<th>Patient’s Name: ___________________</th>
<th>DOB: <strong>/</strong>/__</th>
<th>Code Status:</th>
<th>Insurance Info:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Demographic/Family Information:</strong></td>
<td><strong>ADLs/Mobility:</strong></td>
<td><strong>Medications/Reconciliation issues:</strong></td>
<td></td>
</tr>
<tr>
<td>Insurance/Financial/Socioeconomic issues:</td>
<td>Safety Concerns:</td>
<td>Current Medication List:</td>
<td></td>
</tr>
<tr>
<td>Patient/Family Strengths:</td>
<td>Sleep Concerns:</td>
<td>Risks:</td>
<td></td>
</tr>
<tr>
<td>Special Needs</td>
<td></td>
<td>Adherence:</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th><strong>Hospital Admissions:</strong></th>
<th><strong>Current Community &amp; Social Services (i.e. VNA, ASAP, Eder Services, “Meals on Wheels”, Community Support Worker etc.):</strong></th>
<th><strong>Behavioral Health Concerns:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ER Visits:</strong></td>
<td><strong>Current Rehabilitation Therapies &amp; Treatments (i.e. OT/PT/ST/RT, Cardiac/Pulmonary Rehab, Chemotherapy):</strong></td>
<td><strong>Other Barriers to Care:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Diagnosis(es)/Medical Hx:</strong></th>
<th><strong>Current Specialty Care:</strong></th>
<th><strong>Risk Drivers:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surgical Hx:</strong></td>
<td><strong>Current DME/A Assistive Devices:</strong></td>
<td></td>
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</tbody>
</table>
# Care Plan Components

<table>
<thead>
<tr>
<th><strong>Intake Assessment</strong></th>
<th>• To inform Plan of Care; determine problems, risk drivers &amp; barriers to care</th>
</tr>
</thead>
</table>
| **Problem List**      | • “Risk Drivers?” (“drivers” that led to the patient being identified as Highest Risk)  
                        | • Co-morbidities, barriers to care |
| **Goals**             | • Short & long term goals, to mitigate “risk drivers”, address problems and barriers to care  
                        | • Set goals with patient (specific, measurable, meaningful to patient) |
| **Intervention Plan** | • Interventions to mitigate risk., achieve goals, address barriers to care and meet patient’s needs  
                        | • The Care Team, including the patient/family, should have input |
| **Evaluation of the Plan; Discharge** | • Has the patient’s risk been mitigated/decreased? Needs met? Goals achieved? If not, why not?  
                                              | • Barriers to care addressed? If not, what are the barriers and how might they best be addressed? |
Root Cause Analysis: The 5 Whys

"DRIVERS of the DRIVER"

1. Why was the patient’s risk score so high?
   – ED Visits/inpatient admission & 3 chronic conditions (poorly controlled)

2. Why was the patient admitted to the hospital?
   – Rule out MI

3. Why was the patient admitted for rule out MI?
   – ED visit with chest pain

4. Why did the patient develop chest pain?
   – Medication non-adherence ......RISK DRIVER

5. Why did the patient have difficulty with med adherence?
   – Knowledge and cognitive deficits
   – Med regime complexity
   – Financial barriers?
Activity #2:
Care Plan Development & Discussion
## Care Plan Template

**Patient’s Name:** XXXXX  
**DOB:** XX / XX / XX  
**Code Status:** XXXXXXX  
**Insurance Info:** XXXXXXX

- **New Care Plan:** I have actively participated in the development of my Care Plan with my Care Manager/Team.  
  - I have a copy and will actively partner with my Team to follow this Care Plan.  
  - Patient’s Name: __________________________  
  - Patient’s Signature: __________________________  
  - Date: ____ / ____ / ____

- **Care Plan Update/Change(s):** I have actively participated in the development of my Care Plan with my Care Manager/Team.  
  - I have a copy and will actively partner with my Team to follow this Care Plan.  
  - Patient’s Name: __________________________  
  - Patient’s Signature: __________________________  
  - Date: ____ / ____ / ____

<table>
<thead>
<tr>
<th>Date</th>
<th>Problem(s)</th>
<th>Goals/Target Date</th>
<th>Intervention Plan</th>
<th>Responsible Party</th>
<th>Evaluation &amp; Follow-Up</th>
</tr>
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<tbody>
<tr>
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Activity #2: Care Plan Development

1. Break up into groups
2. For each Risk Driver/Root Cause (Problem) identified in the “5 Whys”:
   - set a goal
   - create a plan to reach the goal
   - identify responsible party(ies) for implementation
3. Reconvene to discuss the plans developed by each group
# The Integrated Care Plan

**Patient’s Name:** XXXXX  
**DOB:** XX / XX / XX  
**Code Status:** XXXXXXXX  
**Insurance Info:** XXXXXX

<table>
<thead>
<tr>
<th>Date</th>
<th>Problem(s)</th>
<th>Goal(s)</th>
<th>Intervention Plan</th>
<th>Responsible Parties:</th>
<th>Evaluation &amp; Follow-Up</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(“Risk Drivers”—factor or factors that led to the patient being identified as highest Risk)</td>
<td>(Goal relative to “Risk Driver”, specific, measurable &amp; meaningful to the patient)</td>
<td>(The plan to meet goals, service needs and mitigate risk)</td>
<td>(Who is responsible for implementing the plan?)</td>
<td></td>
</tr>
</tbody>
</table>
| **Medication non-adherence 2” to:** | Medical: 1. Patient will accurately verbalize the name of each of his medications, reason for use, possible side effects, and administration schedule.  
2. Family will support patient’s achievement of medication adherence.  
Patient: 1. To be healthy to be able to do more w/grandchildren. | **Minimize Complexity:**  
Explore w/ provider, possible opportunities to decrease complexity of med regime (i.e. reduce dose frequency by switching to long acting forms where possible, identify combination meds that could replace two separate prescriptions, etc.)  
**Patient Education & Support:**  
- Assess/Identify “knowledge gaps”  
- Provide teaching where gaps exist (verbal and written instructions)  
- Confirm patient’s understanding  
- Reminder strategies (pill organizer, calendar, phone reminder)  
- F/u assessment/reinforcement  
- Involve family supports |  
- Care Manager  
- Provider  
- Patient & Family |  |  |

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The Clinical Care Management (CCM) “Continuum of Care” ..... 

Tracking, Coordinating & Managing Care of Highest Risk Patients across the “Continuum” 

- Identify Highest Risk Patients 
- Intake Assessment & Integrated Care Plan Development 
- Implement Care Plan & CCM Interventions 
- Ongoing Assessment, Evaluation & Updating of Care Plan 
- Evaluation/Discharge from CCM Services
Discussion:

Is Our Patient Ready for Discharge from the Clinical Care Management Service?
Our Patient Post CCM Interventions

After implementation of the care plan, interventions were effective in reaching goals ....our patient is now med-adherent and appropriately engaging in his treatment plan

• Last ED visit/inpatient admission 6 months ago
• Taking medications as prescribed, BP under control, no incidences of chest pain
• Stress level manageable
  – has decreased childcare responsibilities
• Safety is still an issue that continues to be monitored:
  – bleeding risk (2˚ to warfarin therapy)
  – cognitive impairment
CCM Discharge Criteria Categories

1. CCM goals have been met/service needs addressed
2. Patient referred for CCM and has not responded to outreach (Unengaged Referral)
3. Patient enrolled in CCM and has stopped responding to outreach
4. Patient is in communication with care manager but is not addressing significant health goals

Source: Cambridge Health Alliance Complex Care Management 2013
Discharge/ Transition Process

• Care Manager & patient review Care Plan to assess what, if any, health goals remain

• Care Manager discusses with Care team, indications for ending CCM
  – Risk Assessment Tool can be used to validate risk reduction or assess for residual CCM needs

• Care Manager works with patient to:
  – Titrate the relationship
  – Review patient’s successes, new skills/ supports
  – Develop plan to address potential future set-backs
Wrap-up

• Clinical care management focuses on highest risk patients
• Care Manager leads an interdisciplinary team to develop and implement an integrated care plan
• Risk stratification tools are helpful to identify the highest risk patients in your practice
• The integrated care plan addresses risk drivers and goals developed with the patient
• Guidelines and criteria for discharge from CCM help to keep the highest risk registry dynamic
Clinical Care Management Tools & Resources

- Complex Care Management “Toolkit” (CA Quality Collaborative)
- CCM Triage/Risk Assessment Tool (Cambridge Health Alliance)
- Intake Assessment & Care Plan Template (UMass Medical School)
- CCM Intake Assessment 4 Domains & Scoring Levels (Humboldt)
- Adult Meducation (www.AdultMeducation.com)
- Medication Reconciliation Toolkit (AHRQ)
- Post-Discharge Follow-Up (AHRQ)
- Highest Risk Registry (Excel)
- Discharge Follow-up Tracker (Excel)
- Risk Stratification Tools
Acknowledgements

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UMass Memorial Pediatric Primary Care Associates
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