

A Pharmacist Network for Integrated Medication Management in the Medical Home

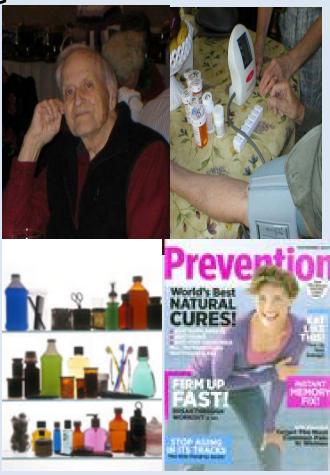
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Case Study for New Primary Care Model

90 yo WM, cardiac disease, post-CABG

- 7 chronic meds/day; adherent
- PCP + 5 specialists
 - Pharmacist-led anticoag clinic
- Multiple prescribers
- Motivated in self-management
- Care support system
 - spouse "adherence coach"
 - 3 daughters "care coordinator/navigators"
- Great access, insurance coverage



Has had multiple <u>preventable</u> medication misadventures /errors with care transitions, change in PCPs, specialist care – POOR CARE COORDINATION, HIGH COSTS

Primary Care Med Use and Safety Issues

- Prescribing: 71% of physician office visits recorded ≥1 prescription meds; 48% of US adults having 4+ prescriptions for chronic conditions
- Medication discrepancies: 24% prescription meds and 76%
 OTCs/herbals (reported as actual meds used at home) were not in EHRs; ~ 50% medication discrepancies due to discontinued meds
- **ADEs:** 175,000 visits/yr to US emergency depts for adverse drug events (ADEs) in the elderly; 32% adverse events leading to hospital admission attributed to medications
- Care Transitions: 49% patients had unexplained med discrepancies between home to hospital discharge; 29% patients had unexplained med discrepancies between hospital discharge and 30-days post discharge

Medication management is too critical and important to leave to any <u>one</u> person or profession......primary care offers opportunities for <u>interdisciplinary collaboration</u> and teamwork for safe, evidence-based, cost-effective medication use

Disparate, Fragmented Med Info Sources in Primary Care

EHR/Medical Charts
Primary Care, Specialists

Prescribing

Multiple Prescribers
Paper Prescriptions
E-Prescribing

PATIENT HEALTH RECORDS

MTM Services
Remote Monitoring
E-Consults w/ PCP

Medication Monitoring and Outcomes



HEALTH INFO EXCHANGES

Rx Processing

Pharmacy Profiles

- Multiple Stores
- Mail Order

Rx Claims Paid

- Health Plan
- PBM

Patient Self-Report
Caregiver/Family

Patient Med Use at Home

Home Visits/Brown Bag Sessions Webcam Med Reviews

HIE is a shared platform for centralized patient medication history, usage patterns, and outcomes that can be accessed by all health care professionals (and patients??)

Pharmacist Services in Primary Care

Collaborate with patients/families and providers to:

- ✓ Perform comprehensive review of medication therapies
- ✓ <u>Identify, resolve, monitor, and prevent</u> medication use and safety problems
- ✓ Optimize polymedicine regimens
- ✓ Recommend cost-effective therapies
- ✓ Design tailored adherence and health literacy programs
- ✓ Address health disparities culturally and linguistically appropriate care
- ✓ Develop **medication action plans** for patients and caregivers
- ✓ Provide medication recommendations to all patient's providers
- ✓ Perform targeted medication assessments at care transitions

Enhance Access to Care

- ✓ Pharmacists can provide patient services in multiple locations
 - retail pharmacies, physician offices, outpatient clinics, home visits, worksite health centers, senior centers
 - pharmacist consults by tele-health connection

Medication Therapy Management (MTM)

Medication Therapy Management (MTM) is a "systematic process of collecting patient-specific information, assessing medication therapies to identify medication-related problems, developing a prioritized list of medication-related problems, and creating a plan to resolve them."

Pharmacists have the training and clinical expertise to <u>detect, resolve, monitor</u>, <u>and prevent</u> medication discrepancies and medication-related problems across the continuum of care and at times of care transitions

MTM is a component of:

- ✓ patient safety or risk management initiatives
- ✓ care quality improvement programs
- ✓ performance target or incentive programs
- ✓ cost optimization programs

True MTM is **NOT**:

- ✓ comparing 2 med lists for medication reconciliation purposes
- ✓ copying meds into a list to give to the patient
- ✓ outbound calls to see if patients have new meds or med problems.
- ✓ adherence education, patient counseling, refill alerts and reminders

Pharmacist Patient Care - MTM Services

1 - Comprehensive review of a patient's <u>current</u> prescribed and self-care medications for <u>actual</u> usage and adherence patterns

TODAY, most primary care office med lists are INCOMPLETE or INACCURATE

- Lack of skills in collecting comprehensive medication histories
- Poor documentation of medication info
- Poor patient recall or avoidance of truth on med use/non-adherence
- Cultural or health literacy challenges
- Discontinued medications not included
- Fragmented sources of medication info

Missing Info.....OTCs, herbals, nutriceuticals, MD samples, indigent care meds, complex dose schedules, meds from other MDs/specialists, discontinued meds, adherence trends













Even with use of EHR and E-prescribing, most PC med lists are incomplete or inaccurate which diminishes the <u>promise</u> of improved medication safety and care quality

Pharmacist Patient Care - MTM Services

2 - Systematic assessment of each medication for appropriateness/indication, efficacy, safety, and adherence (in this sequence) to achieve optimal therapy goals

70-80% of medication-related problems in primary care

- 3 Development of a personal medication care plan with patient self-management goals and medication management recommendations
- 4 Documentation and communication of the care plan to the patient and all health-care providers for care coordination and follow-up between office visits









Incorporating Pharmacists in the PCMH

Workflow patterns that incorporate pharmacists in a direct patient-care role

- <u>Pre-visit planning</u>: meet with patient or reviews the patient medical chart and makes care plan recommendations that are shared with the primary care provider <u>prior to</u> the patient's primary care appointment
- <u>Coincident referral</u>: sometimes called a "warm handoff" as the pharmacist meets
 with the patient and makes care plan recommendations to the referring provider
 <u>during or at the conclusion of</u> a primary care appointment
- Follow-up referral: the provider refers the patient to the pharmacist for a separate, follow-up visit subsequent to the patient's primary care appointment; care plan recommendations are sent to the referring primary care provider <u>between</u> primary care appointments
- <u>Targeted consults:</u> the pharmacist initiates (or the provider requests) medication management services for selected patients
 - ✓ care transitions
 - √ lack of therapeutic goal achievement
 - √ high-risk medications for adverse events
 - ✓ complexity of medication regimens
 - ✓ multiple prescribers
 - ✓ poor patient adherence
 - ✓ presence of liver or renal dysfunction

Considerations for Pharmacist Integration in PCMH

Patient Selection (Who?)

Elderly patients, polymedicines, high-risk meds, high-cost therapies, complex regimens, lack of therapeutic goal achievement, health literacy and cultural issues, care transitions, frequency of med-related hospitalizations/ED visits, non-adherence

Locations (Where?)

Primary care offices, ambulatory clinics, worksites, home visits, senior centers, community pharmacies, tele-health, e-consults

Integration Models (How?)

Employed model – pharmacist on PCMH staff

Embedded model – partnership between PCMH and pharmacy school clinical faculty

Referral/regional model – pharmacist serves PCMHs in geographic area

Contracted model – PCMHs/payers contract w/ network of credentialed pharmacists

Sustainable Payment Sources

Fee-for-service (CPT codes for pharmacist MTM)

Global Payment/Care Coordination Payments

Performance Targets/Bonuses

Additional physician visits (w/complex medication patients seen by pharmacist)

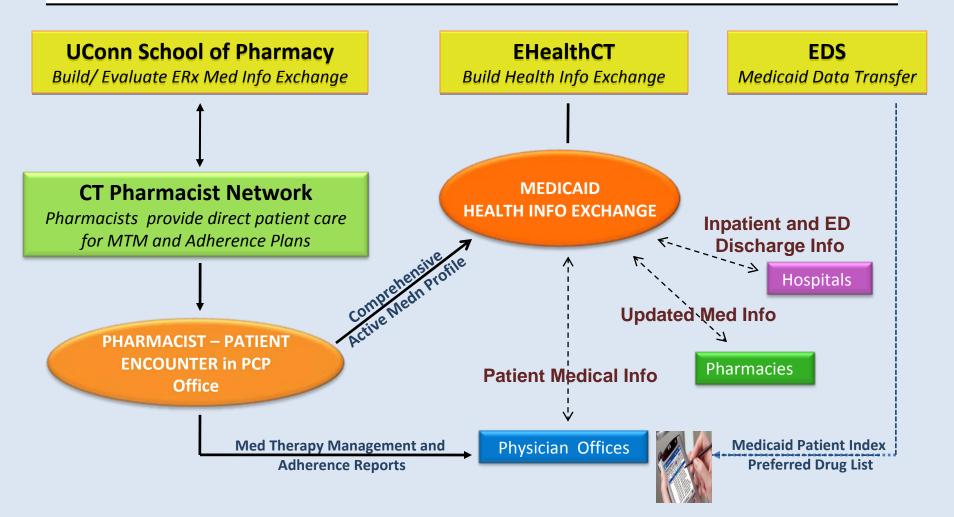


CT DSS Medicaid Transformation Grant





CT DSS Medicaid Transformation Grant Building a Medicaid HIE and ERx Med Info Exchange





Subsidiary of CT Pharmacists Assn

Contract with Health

Plans/Payers, Employers Recruit Qualified
Providers, Health Pharmacists to provide
Systems for Pharmacistcontracted services
Services

Pharmacists Collaborate with Health Care Professionals & Provide Patient-Centric Care

Improved Patient Care and Outcomes

NETWORK SERVICES

Negotiate Contracts

- Administrative and billing service
 - Direct payments to Pharmacists
- Coordinate network of pharmacists
 - Competency/skill-based qualifications
 - Not dependent on pharmacists' workplace
- Validate credentials of pharmacists involved
- Provide standardized pharmacist documentation tool
 - >HIPAA compliant
 - > Web-based, secure access
 - >Standardized reports
- Systematic approach to all services offered

PHARMACIST MED'N THERAPY MANAGEMENT

- Pharmacist at Point-of-Care (Primary Care Office/Telemedicine)
- Perform Comprehensive Medication Review
 - > Develop a Personal Medication Record
 - Assess Medication-Related Problems (MRPs)
 - > Duplicate therapy/ Drug interactions
 - >Adverse events and side effects
 - **Adherence**
- Develop Patient Medication Action Plan
- Document /Follow-up Plan
- Communicate with Primary Care Provider

CMS Medicaid Transformation MTM Project

- Demonstration project in 4 FQHCs, 20 providers
- Beneficiaries with 4+ chronic meds, >1 chronic disease, not disease specific
 - 3700 eligible beneficiaries, 88 enrollees, 401 encounters
- Initial and 5 monthly face-to-face patient-pharmacist visits between primary care provider appointments; avg=4.6 visits
- CT Pharmacist Network: specially-trained Pharmacists
 - met with Medicaid patients in PCP office
 - had full access to EHR
 - multiple medication data sources: pharmacy claims, EHR, patient visit to obtain actual med use at home
- Provide patient with comprehensive active med list + Medication Action Plan w/ self-management goals
- Communicate MTM recommendations to PCP via EHR

Key Findings: CT Medicaid Pharmacist MTM Project

- 1. EHR and ERx adoption does not solve medication use/safety problems
- 2. Medication discrepancies ~ 50% related to discontinued medications
- 3. Clinicians need <u>actual patient medication use info</u> not just admin claims or ERx data for clinical decision-making
- 4. CT Medicaid beneficiaries have complex medication regimens
 - ✓ Medical conditions ~9-10, chronic medications ~ 15-16
 - ✓ Medication-related problems (MRPs)/ptnt: 10
 - 74% MRPs medication appropriateness, effectiveness, safety (clinical decisions)
 - 26% MRPs patient adherence
 - Needs additional medications (23%) using evidence-based guidelines
 - Dose too low (16%)
 - Adverse drug event (16%)
 - Patient does not understand medication use instructions (11%) esp. inhalers
- 5. Took 4 pharmacist-patient visits to resolve 83% of identified MRPs
- 6. Medicaid Project Success Drivers
 - Medical home model pharmacist seen as part of the health care team
 - Pharmacist access to EHR complete medical info and lab data
 - Holistic patient MTM evaluation (all comorbidities, not disease specific)
 - Intensity and frequency of patient-pharmacist visits (initial, 5 monthly visits)
 - Pharmacist developed **Medication Action Plans** promoted patient engagement
 - Pharmacist sent MTM Reports with recommendations to the patient's provider₁₅

Med Management in Primary Care

RESOLVING medication – related problems

- ~ 80% MRPs resolved in 4 monthly visits
- Pharmacists made ~ 60 recommendations to PCP for preventive treatment according to evidence-based guidelines
- ~ 75% MRPs were resolved in the patient-pharmacist encounters (did not require a PCP visit) with use of Medication Action Plans
- 28% improvement in achieving patient medication therapy goals between the first and last patient-pharmacist visits
- 83% PCPs made medication adjustment based on MTM reports

PATIENT ENGAGEMENT and TRUST

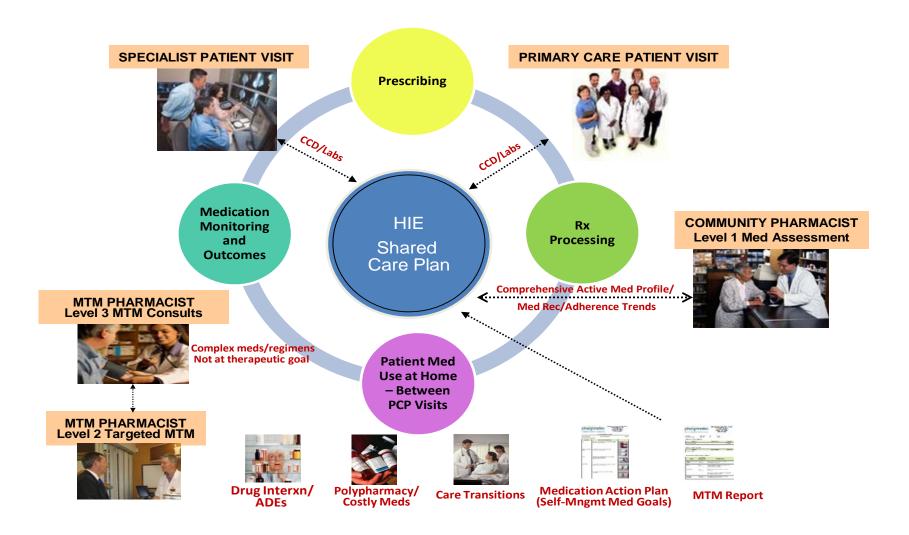
"The most important part of meeting with my pharmacist was she communicated with my doctor and then when we met we were all on the same page."

"These programs offer the patient the opportunity to **ask questions that are embarrassing** to ask the doctor."

"I get answers to questions that I could not get from a busy pharmacist inside a store."

In a PCMH who should manage medication processes? Required training/competencies?? MD productivity impact?

Medical Neighborhood Info Exchange Model



Resources

APhA/NACDS MTM Core Elements

http://www.pharmacist.com/AM/Template.cfm?Section=Home2&CONTENTID=15496&TEMPLATE=/CM/ContentDisplay.cfm

Patient-centered Primary Care Collaborative (Jul 2010)

Integrating Comprehensive Medication Management to Optimize Patient Outcomes: A Resource Guide

https://www.elbowspace.com/servlets/cfd?xr4=&formts=2010-06-30%2006:58:52.550887

Payment Reform to Support High-Performing Practice

https://www.elbowspace.com/servlets/cfd?xr4=&formts=2010-06-30%2006:47:34.445008

Pharmacists Role in Medical Home

Smith MA, Bates DW, Bodenheimer T, Cleary PD. Why Pharmacists Belong in the Medical Home. *Health Affairs* 29, no. 5 (2010): 906-913.

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