# ACO Accelerated Development Learning Session

San Francisco, CA September 15-16, 2011 **Module 2A: Reshaping Care Delivery** 



September 15, 2011 3:30-5:30 pm

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### Objectives for the Learning Module

- Why is primary care the essential foundation for any healthcare system?
- What are the problems with primary care in the United States?
- How should primary care be transformed as the ACO's foundation?
  - The primary care practice itself
  - The coordination of care between primary care, specialty care, in-patient care, and other services
- How can ACO leadership make this happen?

Each participant should write down two reasons why primary care must be the essential foundation for any healthcare system

### **Primary Care**

- Persons who receive care in a primary care-oriented model are more likely to
  - Receive recommended preventive services
  - Adhere to treatment
  - Be satisfied with their care

Bindman and Grumbach. J Gen Intern Med 1996;11:269 Safran et al. J Fam Pract 1998;47:213

 Increased primary care to population ratios are associated with reduced hospitalization rates for ambulatory sensitive conditions

Parchman and Culler. J Fam Pract 1994;39:123

 Healthcare costs are higher in regions with higher ratios of specialists to generalists

Welch et al. NEJM 1993;328:621



### Primary Care continued

- Dartmouth Atlas demonstrates that per capita Medicare expenditures in certain regions of the country are far higher than in other regions. In 2007:
  - Miami, Florida: \$17,274
  - Portland, Oregon: \$6,857
  - LA, NY, Miami, Chicago are high
  - Seattle, Minneapolis, Denver are low
- Per capita Medicare expenditures are almost three times higher in Miami than in Portland
- These differences are not explained by demographic, socioeconomic, or burden-of-illness factors
- Higher-cost areas tend to have a greater preponderance of specialists;
   lower-cost areas have more primary care
- Quality of care for certain measures is no better in the higher-cost areas

Fisher et al. Ann Intern Med 2003;138:273, 288 Fisher. NEJM 2003;349:1665

### Primary Care continued

- 24 common quality indicators for Medicare patients: high quality significantly associated with lower per capita Medicare expenditures
- States with a greater ratio of generalist physicians to population had higher quality and lower costs
- States with a greater ratio of specialist physicians to population had lower quality and higher costs
  - Baicker and Chandra. Health Affairs Web Exclusive. April 7, 2004.

### Primary Care continued

- Adults with a primary care physician rather than a specialist as their personal physician:
  - 33% lower annual adjusted cost of care
  - 19% lower adjusted mortality, controlling for age, gender, income, insurance, smoking, perceived health (SF-36) and 11 major health conditions

Franks and Fiscella. J Fam Pract 1998;47:103

## Primary Care Works, but ...

American College of Physicians (2006):

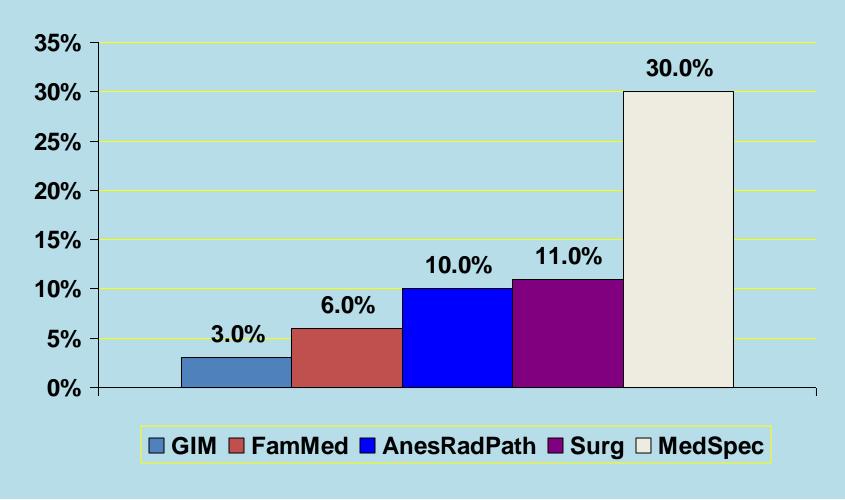
"primary care, the backbone of the nation's health care system, is at grave risk of collapse."

### The Crumbling Primary Care Home

- Plummeting numbers of new physicians entering primary care
- Primary care shortages throughout US
- Growing problems of access to primary care
- The primary care medical home is falling off the cliff



# Residency Match, 2010 % of graduating US medical students choosing specialties

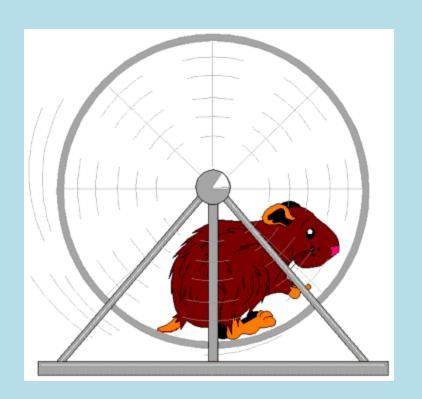


Write down three reasons why US medical students are not choosing adult primary care careers

### Why?

- Reasons for lack of interest in primary care careers
  - Primary care providers (PCPs) earn on average 54% of what specialists earn, and most medical students graduate with >\$120,000 in debt
  - Worklife of the PCP is stressful
  - Medical schools are often toxic to primary care "You are too smart for family medicine"

#### **PCP Burn Out**



"Across the globe doctors are miserable because they feel like hamsters on a treadmill. They must run faster just to stay still."

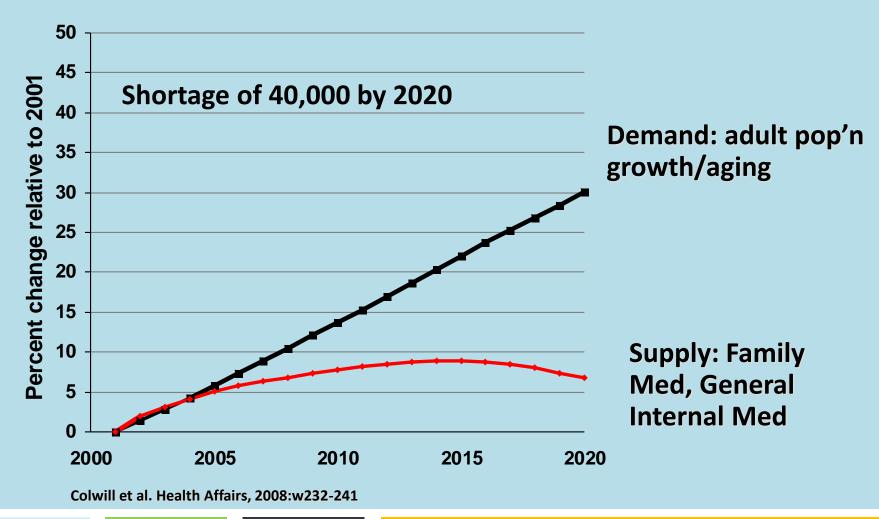
Morrison and Smith. BMJ, 2001

#### Stressful Worklife

- Survey of 422 general internists and family physicians 2001–2005
  - 48%: work pace is chaotic
  - 78%: little control over the work
  - 27%: definitely burning out
  - 30%: likely to leave the practice within 2 years

Linzer et al. Annals of Internal Medicine 2009;151:28-36

# Adult Care: Projected Generalist Supply vs. Pop Growth+Aging



### NP/PAs to the Rescue?

New graduates each year

Nurse practitioners: 8000

Physician assistants: 4500

% going into primary care

- NPs: 65%

PAs: 32%

 Adding new GIM, FamMed, NPs, and PAs entering primary care each year, the primary care practitioner to population ratio will fall by 9% from 2005 to 2020

Colwill et al. Health Affairs Web Exclusive, April 29, 2008; Bodenheimer et al. Health Affairs 2009;28:64.

#### Effect on Patients: Access

 22% of Medicare patients and 31% of patients with private insurance had unwanted delay obtaining appointment for routine care in 2008.

MedPAC Report to Congress, March 2009

 73% of adults with PCP had trouble contacting the physician by phone, obtaining care after hours, or experiencing timely office visits

Closing the Divide. Commonwealth Fund, 2007

### **Effect on Patients: Quality**

 In a national study of physician performance on 439 process indicators for 30 medical conditions plus preventive care, physicians provided only 55% of recommended care
 McGlynn et al. NEJM 2003; 348:2635

- Despite well-designed guidelines for hypertension, hyperlipemia, and diabetes ...
  - 50% of people with high blood pressure are poorly controlled
  - 62% with elevated LDL have not reached lipid-lowering goals
  - 63% of people with diabetes have HbA1c >7

Egan et al. JAMA 2010;303:2043; Afonso et al. Am J Manag Care 2006;12:589; Saydah et al. JAMA 2004;291:335

### **Problems of Primary Care**

- A study of 264 visits to primary care physicians using audiotapes
- Patients making an initial statement of their problem were interrupted by the physician after an average of 23 seconds
- In 25% of visits, the physician never asked the patient for his/her concerns at all

Marvel et al. JAMA 1999;281:283

### Problems of Primary Care: The 50% Rule

 Asking patients to repeat back what the physician told them, half get it wrong

Schillinger et al. Arch Intern Med 2003;163:83

- Asking patients: "Describe how you take this medication"—
   50% don't understand and take it differently than prescribed
   Schillinger et al. Medication miscommunication, in Advances in Patient Safety (AHRQ, 2005)
- 50% of patients leave the physician office visit without understanding what the physician said

Roter and Hall. Ann Rev Public Health 1989;10:163

Discussion: Why??

## Problems with Primary Care: Shared Decision Making

- Evidence on collaborative decision making is persuasive
  - Participatory relationship between physician and patient is associated with patient adoption of healthy behaviors
    - O'Brien et al. Medical Care Review 1992;49:435
  - Study of 752 ethnically diverse patients, the combination of information giving and collaborative decision making is associated with healthier self-reported behaviors, medication use, dietary adherence, and exercise

Piette JD et al. J Gen Intern Med 2003;18:624-633

 Patients with diabetes supported by their providers to have some control over healthcare decisions had lower HbA1c levels than those without such control

Williams et al. Diabetes Care 1998;21:1644

## Problems with Primary Care: Shared Decision Making continued

 Patients more actively involved in their care (medication use, glucose testing, diet, exercise and foot care) had better HbA1c levels than those less involved

Heisler et al. Diabetes Care 2003;26:738

 The greater the amount of patient participation in the medical visit, the higher the level of medication adherence

O'Brien et al. Medical Care Review 1992;49:435

 Study of 1,000 physician visits, the patient did not participate in decisions 91% of the time

Braddock et al. JAMA 1999;282;2313

### The Diagnosis

The fundamental pathology of primary care:

The 15-minute visit

In primary care, time flies by



## Panel Size Too Large for Physician to Manage Alone

- Average primary care panel in US is 2,300
- A primary care physician with a panel of 2,500 average patients will spend 7.4 hours per day doing recommended preventive care

Yarnall et al. Am J Public Health 2003;93:635

 A primary care physician with a panel of 2,500 average patients will spend 10.6 hours per day doing recommended chronic care

Ostbye et al. Annals of Fam Med 2005;3:209

#### The Dilemma

- Panel size too large for average PCP to manage
- We can't reduce panel size due to worsening shortage of PCPs
- Shortage = larger panels, poorer access for patients, poorer quality, less five-step evidence-based medicine, more PCP burnout
- More PCP burnout means fewer medical students will be attracted to primary care
- Doomsayers: it could become a primary care death spiral

### The Doomsayers Forgot One Thing

- Upsurge of energy within primary care practices and clinics all over the country
- Intelligence and dedication of many people working in primary care: nurses, clinicians, medical assistants, practice leaders

### First Primary Care Revolution

- Providing improved diabetes, asthma, congestive heart failure, cholesterol, hypertension management
- Made possible by
  - Chronic care model
  - Health disparities collaboratives
  - New culture of measurement

### Second Primary Care Revolution: Deep Transformation of Primary Care

- Building blocks of good primary care
  - Continuity of care
  - Empanelment
  - Proper panel size
  - Access
  - Teams
  - Healing populations in addition to individuals
  - Data-driven improvement

### **Second Primary Care Revolution**

**Priority #1: Continuity** 

**Requires** 

Leads to

**Determines** 

**Empanelment** 





Access



Panel size



**Culture:** 

Agree that continuity comes first

**Requires** 

### Start with Continuity of Care

- Continuity of care is associated with
  - Improved preventive care
  - Improved chronic care outcomes
  - Better physician-patient relationship
  - Reduced unnecessary hospitalizations
  - Reduced overall costs of care
     Saultz and Lochner, Ann Fam Med 2005;3:159
- Continuity is related to patient satisfaction
   Adler et al. Fam Pract 2010;27:171
- For older adults, continuity with a PCP is associated with reductions in mortality (adjusting for many other factors)
   Wolinsky, J. Gerontology 2010;65:421
- Primary care physicians want continuity of care Stokes. Ann Fam Med 2005;3:353

### You Can't have Continuity without Empanelment

- Each participant should write down a definition of empanelment
- Discussion: what is empanelment?
- Each person should write down two reasons why empanelment is essential
- Discussion

### Improving Continuity of Care

- Discuss with the person next to you
  - What is a good measure of continuity of care?
  - How would you improve continuity of care in a primary care practice?
- Discussion

### **Continuity of Care**

- Measure and report monthly number of patient visits to their empaneled PCP divided by total number of visits to primary care (and to emergency department)
   Or
- % of visits to the patient's empaneled primary care team
- Measure by practice and by provider
- Regular team discussions of data: uncover causes of suboptimal continuity and make plan to fix it
- Clerks are key drivers of continuity
  - "Next available appt with any clinician is tomorrow" NO
  - "Next available appt with your clinician is next Monday" YES
  - If the patient rejects next Monday appt, try to get patient in to his/her clinician (not another clinician) sooner
  - If access is good (open slots, clinicians squeezing in their own patients), continuity improves
- If continuity is the #1 priority (which it should be), it needs to be a key leadership priority

#### Prompt Access to Care

- The two most important elements of patient-centeredness are continuity of care and access to care
  - Continuity: allows ongoing trusting relationship, and trust in the physician is a major determinant of disease outcomes
     Thom et al. Health Affairs 2004;23:124-132
  - Access: patients want or need care when they want or need it
- Prompt access to primary care in the United States is poor and getting worse due to primary care shortage
- Access to care includes
  - Access to a care provider during weekday hours
  - Access to a care provider during nights/weekends
  - Phone access

### Prompt Access to Care continued

- Each participant should write down three changes that primary care could make to improve prompt access to care during weekdays. Assume that the patient:clinician ratio cannot change (i.e., panel size remains the same).
- Discussion of participants' ideas

### **Continuity and Access**

- "See your own, don't make them wait"
   Mark Murray, founder of same-day access scheduling
- Requires leadership intervention and weekly monitoring to succeed
- Metrics
- Third next available appointment (TNAA)
- Ask patients if they feel they have access
- % unfilled appointment slots 1 week from today
- Good primary care practices
  - All clinicians have open slots each day (for access)
  - Are required to squeeze in their patients, but not patients of other physicians (for continuity)
  - Leaders visit practice to troubleshoot if TNAA > 5 days

# Access Requires Multiple Transformations

- Reduce unnecessary demand
  - Continuity of care reduces demand
  - Longer visit intervals don't reduce quality
     Schectman et al. Am J Med 2005;118:393-9
  - Substitute telephone and e-mail (patient portal) encounters for face-to-face visits
  - Addressing high primary care users
    - Social visits: behaviorist
    - System barriers (refills)
    - Truly complex patients: plan for each patient

# Access Requires Multiple Transformations continued

#### Increase capacity

- No-shows drop with prompt access
   Whittle et al. J Amb Care Manage 2008;31:290-302
- Group visits increase capacity 30% (Clinica Family Health Services)
- Panel management: MDs shouldn't be doing routine preventive and chronic care tasks
- Diabetes, hypertension visits to RN or pharmacist, using standing orders
- Back pain directly to physical therapy; PT sends red flags to MD
- Behavioral health visits
- To increase capacity you need a team

### Access at Clinica Family Health Services

- Did not work down backlog
- As of July 1, 2001, schedule template open for 2 weeks
- No-show rate when schedule open for 2 weeks 8%. For 3 weeks, 30%.
- Intensive patient ed: expect same-day appointments
- Third next available appt max 2 weeks
- Fill slots 8 to 10 AM, try to keep rest of slots open
- 50% of slots fill before the same day
- Demand-reducing, capacity-increasing policies
- Keeping panel size reasonable
- Third next available appointment past 10 years never over 5 days, usually 1–2 days

# Building Teams in Primary Care: Paradigm Shift: I to We

 From ... How can the clinician (I) see today's scheduled patients and do the non-face-to-face-visit tasks?

Monday	Patients
8:00 AM	Sr. Rojas
8:15 AM	Ms. Johnson
8:30 AM	Mr. Anderson
8:45 AM	Sra. Garcia

 To ... What can the team (We) do today to make the panel of patients as healthy as possible?

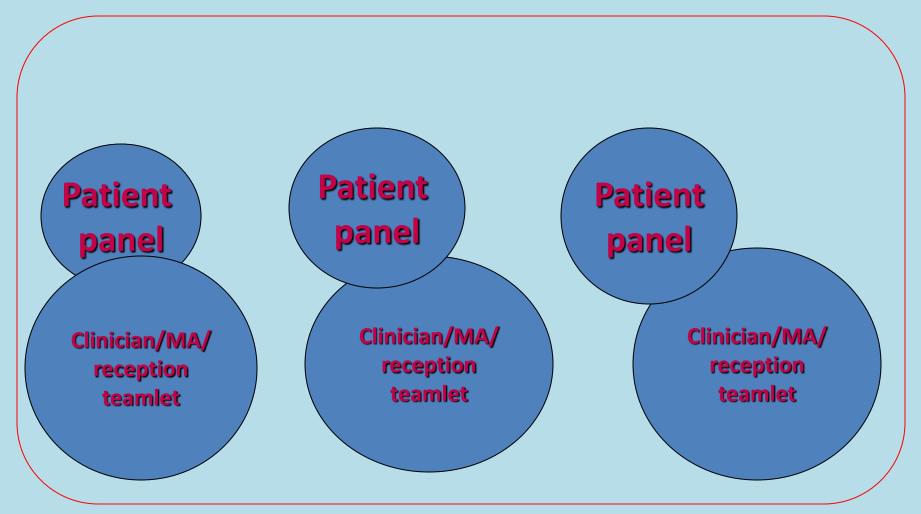


#### The Transformation to Team Care

 50% of what physicians do could be done by someone else on the team

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Yarnall et al. Am J Public Health 2003;93:635;
Ostbye et al. Annals of Fam Med 2005;3:209
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- "Offloading physician work to other team members" alienates non-physician team members
- Share the care
  - Tasks are redistributed among the team
  - Each team member feels proud to share responsibility for the team's patient panel
  - RNs, pharmacists, behaviorists could be the person primarily responsible for a sub-panel



RN, social worker, pharmacist, health educator, nutritionist, care manager, panel manager

#### 1 team, 3 teamlets



### **Continuity and Teamlets**

- Continuity is redefined as continuity with a teamlet rather than with a clinician
- The same people need to work together all the time; then patients know who is their team
- Teamlets are small, so that continuity is not continuity with 8 people, but with 2 or 3 people
- Trust in the clinician can be transferred to trust in the teamlet

### Will Patients Accept Teams?

- Some evidence suggests that this can work for patients if:
  - The same people work together all the time so patients know who is their team
  - Teams are small (teamlets) so patients know and are comfortable with all team members
  - Teams are visible rather than invisible
  - Patients already have a relationship with the team's physician; ideally the physician introduces the team to the patient

Rodriguez et al. Medical Care 2007;45:19; Rodriguez et al. JGIM 2007;22:787

# Creating Team-Based Primary Care

 Discuss what ACO and primary care leaders should do to create high-performing teams in primary care

### Stratifying the Patient Population

- Build different models for different strata of panels. All patients cannot be funneled into 15-minute visit
  - People who need same-day acute care (RN, NP, PA)
  - Healthy people who need preventive care (panel managers)
  - Women who need pregnancy and infant care (RN, NP, PA, MD)
  - People with a chronic condition (health coaches)
  - People with complex healthcare needs (MD, RN complex care manager)
  - People with mental health/substance use issues (MD, behavioral health provider)
  - People who need care at the end of life (MD, RN complex care manager)

### Complex Care Management in Primary Care

#### Care Management Plus

- Extensive training of care manager RNs
- Care managers work with primary care team
- Clinic visits, home visits, phone calls
- In the higher-risk subgroup, hospital admissions significantly lower in CMP group

Dorr et al. JAGS 2008;56:2195

# Complex Care Management in Primary Care continued

- Guided Care, Johns Hopkins
  - Extensively trained RN care managers work with primary care team,
     caseloads about 50
  - Clinic visits, home visits, phone calls
  - RNs teach patients/families self-management skills including early identification of symptom worsening
  - Improved several quality measures
  - No reduction in ED visit or hospital days

Boult et al. Arch Intern Med 2011;171:460

### Hospital-to-Home Studies

#### Transitional Care Model

- Advanced practice nurses care-managed patients during hospitalization and post-hospital at home with at least 8 home visits and phone contact
- Extensive care manager training
- Reduced hospital and ED utilization compared to controls, with 38% total cost reduction

Naylor et al. JAGS 2004;52:675

### Hospital-to-Home Studies continued

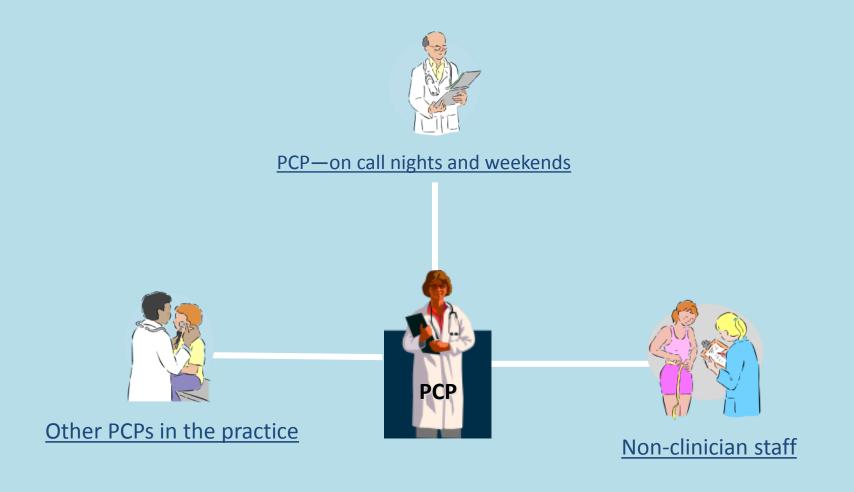
#### Care Transitions Intervention

- RNs trained as "transition coaches" to teach patients/families skills to care for themselves
- 1 hospital visit, 1 home visit post-discharge, 3 post-discharge phone calls
- Significantly lower readmission rates and lower hospital costs compared with controls
- Less intensive intervention than Transitional Care model
   Coleman et al. Arch Internal Med 2006;166:1822

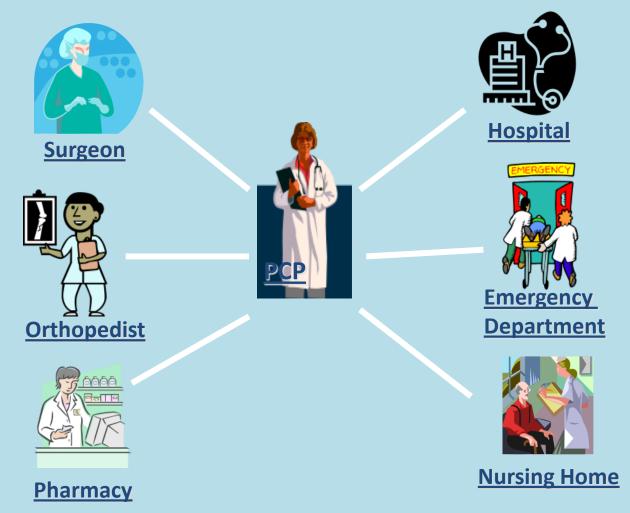
# Panel Management, Coaching, Care Management

- Patients with routine preventive and chronic care needs panel manager to make sure all recommended services done in a timely fashion
- Patients with one or two poorly controlled chronic conditions—health coach
- Patients with complex healthcare needs—RN care manager

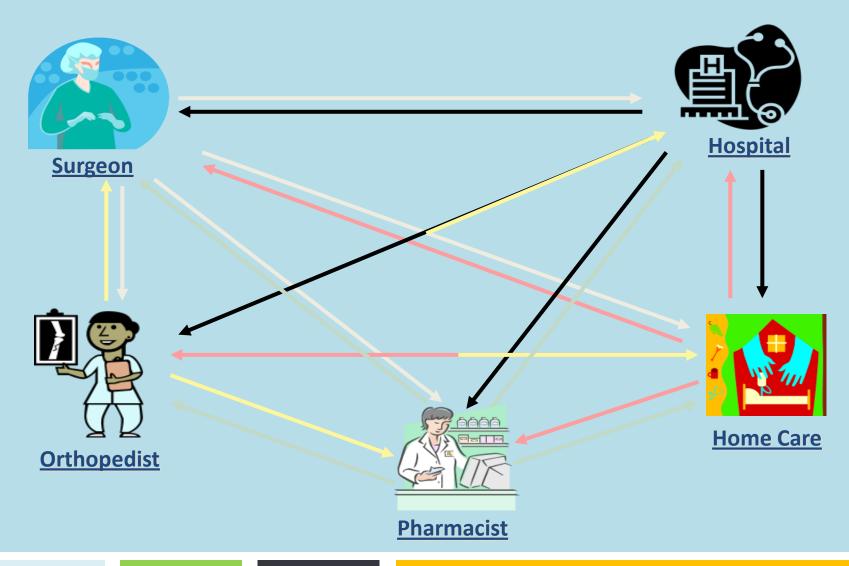
# Care Coordination within Primary Care Practice



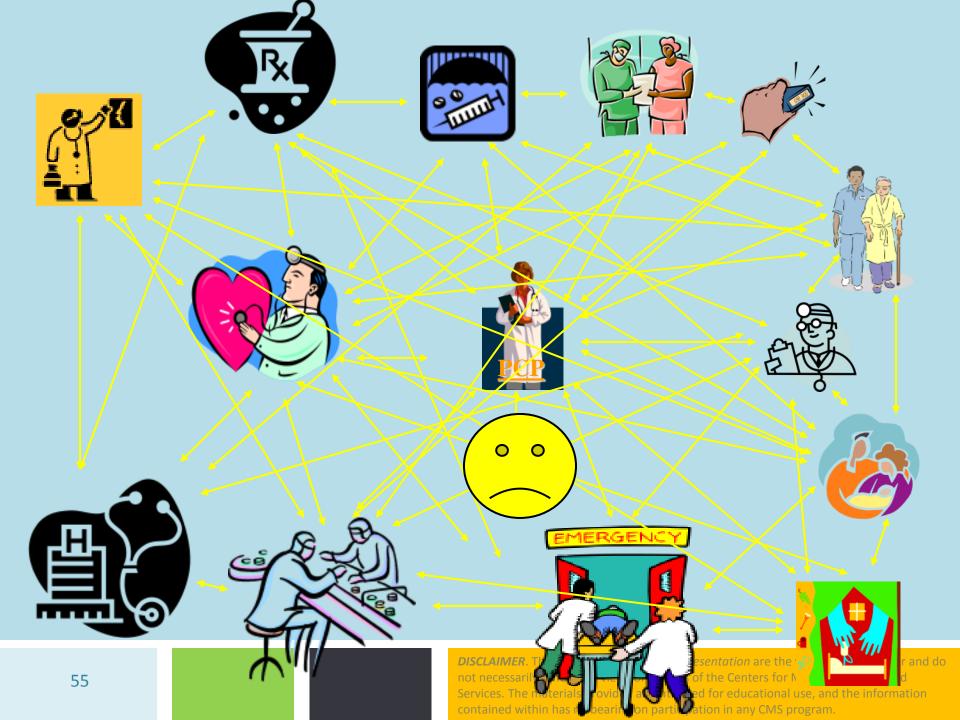
# Care Coordination between PCP and Other Caregivers



## Care Coordination among Other Caregivers



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# Risk Factors for Needing Care Coordination

- A small number of healthy patients with a PCP always available
  - Enjoy continuity of care
  - Don't need care coordination
- Most of the 300 million people in the US need care coordination at some point in time
- 125 million people with chronic illness, disability, or functional limitation are at greatest risk for needing care coordination

# Coordinating Care: How Are We Doing? Patient Voices

- "I've basically kind of fixed up most of it myself. I think what it comes down to is who's the coordinator? The coordinator seems to be me."
- "Don't leave it to them. Take your situation in your own hands."
   You have to take the situation into your own hands."

Harrison and Verhoef. Health Serv Res 2002;37:1031

# Coordinating Care: How Are We Doing? Research Studies: Provider-Provider

- US academic medical center, adult referrals
  - 68% of referrals—specialists reported they had received no information from PCP
  - 25% of the time specialty consultation reports had not reached PCP 4 weeks after specialty visit
  - Lack of time important contributor to poor referral process
     Gandhi et al. JGIM 2000;15:626

# Coordinating Care: How Are We Doing? Research Studies: ED

- 33% of emergency department visits
  - Information about the patient (medical history and lab results) absent
     Gandhi. Fumbled handoffs. Ann Intern Med 2005;142:352

# Coordinating Care: How Are We Doing? Research Studies: Discharge

- Information transfer between hospital-based and primary care physician (lit review)
  - PCP involved in discharge plan: 3% of the time
  - PCP told that patient is discharged: 17%-20% of the time
  - PCP never got discharge summary: 25% of the time
  - Discharge summary: no lab reports: 38% of the time
  - Discharge summary: no med list: 21% of the time
  - PCP cared for post-hospital patient before receiving discharge summary: 66% of the time

Kripalani et al. JAMA 2007;297:831

# Coordinating Care: How Are We Doing? Research Studies: Provider-Patient/Family

- 2004 survey of people who had seen a physician during the past 2 years
  - 18% received conflicting information from different doctors
  - 24% reported leaving a physician visit with important questions unanswered
  - 20% were not told the results of a diagnostic test, or the explanation was unclear

Schoen et al. Health Affairs, October 28, 2004

#### **Barriers to Care Coordination**

- The overstressed primary care home
- The uninformed, passive patient
- Lack of interoperable computerized records
- Dysfunctional financing
- Lack of integrated systems of care

#### The Uninformed Passive Patient

 50% of patients leave the office visit not understanding what the doctor said

Roter and Hall. Ann Rev Public Health 1989;10:163

 One study, half of patients want physicians to make final decisions; 96% want to be offered choices and be asked their opinion. Patients want to be involved in decisions.

Levinson et al. JGIM 2005;20:531

 Study of 1000 physician visits, the patient did not participate in decisions 91% of the time

Braddock et al. JAMA 1999;282;2313

#### The Uninformed Passive Patient continued

- Active participation in care is associated with
  - Healthier behaviors
  - Better chronic disease outcomes
  - Medication adherence
  - Improved care coordination

Heisler et al. JGIM 2002;17:243 Coleman et al. Arch Intern Med 2006;166:1822

### **Dysfunctional Financing**

- Most healthcare dollars are paid based on quantity, not quality
- Procedures and imaging are paid at a higher rate per time spent than cognitive services
- Neither hospitals nor physician practices have a financial incentive to provide post-hospital care that is so often lacking
- Pay for performance (P4P) is based on specific measures that are less pertinent to the multiple-diagnosis patients at highest risk for needing care coordination

### Dysfunctional Financing continued



 Providers are paid more for amputating a diabetic leg than for proper outpatient management to prevent amputations

### **Improving Care Coordination**

- Addressing the overstressed primary care home
- Health coaching to transform uninformed, passive patients into informed, active participants in their care
- Interoperable computerized records
- New modes of financing
- Integrated systems of care

# Primary Care Teams Are Needed To Improve Care Coordination

- Clinicians are needed for care coordination but cannot do it all themselves – much too busy
- Some aspects of care coordination can be done by health coaches or RNs (for complex patients)
- If teams share the care, clinicians will have more time for care coordination

# ACOs can Address Dysfunctional Financing and Lack of Integrated Systems

- Hospitals must not make more money by admitting more patients
- Primary care must be rewarded for reducing inappropriate ED visits, specialty visits, and hospital admits
- Everyone in ACO on same electronic health record
- Implement Eric Coleman's Care Transitions Intervention
  - Transition coaches, for the crucial post-hospital transition (don't rely on hospitalists)
  - Main function of coach: train patients/families to be informed, activated participants in transitions process ("You have to take the situation into your own hands")

# Payment Reform for Primary Care Transformation

- Primary care teams are necessary
  - For continuity and access
  - For chronic, preventive, and complex care
    - Panel managers and health coaches
    - RNs complex care managers
  - For physician worklife
  - To reduce inappropriate ED visits and hospital admissions
- If only MD/NP/PA is reimbursed, the team is an expense, not a revenue source
- Patient-Centered Medical Home concept (PCMH) helps: fee-forservice plus Per Member Per Month (PMPM) capitation plus P4P
- Allan Goroll's payment concept: risk-adjusted capitation plus P4P JGIM 2007;22:410

# Payment Reform for Primary Care Transformation *continued*

- Primary care does not cost much (average 6% of total system costs), but primary care is needed to achieve reductions in hospital days, specialty visits, ED visits
- To reduce total healthcare costs
  - Invest in primary care
  - Make primary care assume some risk

### **Investing in Primary Care**

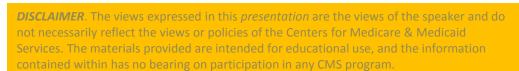
- RN complex care management Can reduce healthcare costs
   Bodenheimer and Berry-Millett. 2009 www.rwjf.org/pr/synthesis
- Prompt access including nights and weekends. Primary care practices with >12 evening hrs/wk, compared with those lacking evening hrs, reduce Medicaid ED visits by 20%.

Lowe et al. Med Care 2005;43:792

 Elevating continuity of care to the fundamental guiding principle of primary care. Continuity with a clinician is significantly associated with reduced ED visits in Medicaid populations.

Gill et al, Arch Intern Med 2000;9:333

Primary care cannot do these things without receiving a financial investment



### **Putting Primary Care at Risk**

- If primary care practices do not assume any risk for their patients' total healthcare costs, they are unlikely to
  - Hire RN complex care managers
  - Expand evening/weekend hours
  - Create culture that puts continuity first
- Risk: capitation, shared savings, bonuses for reducing costs or penalties for failing to reduce costs
- First invest in primary care necessary to give practices funds and tools needed to succeed at cost reduction
- Then, have primary care assume some risk so that there is an incentive to reduce total healthcare costs

#### **Tools and Resources**

- Safety Net Medical Home Initiative implementation guides at www.qhmedicalhome.org/safety-net/publications.cfm
- Bodenheimer and Grumbach, Improving Primary Care:
   Strategies and Tools for a Better Practice (McGraw-Hill, 2007)
- Clinica Family Health Services (detailed description of a highfunctioning primary care practice), at http://familymedicine.medschool.ucsf.edu/cepc



#### **Module 2A: Reshaping Care Delivery**

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