### Value-Based Health Care Delivery

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This presentation draws on Michael E. Porter and Elizabeth Olmsted Teisberg: Redefining Health Care: Creating Value-Based Competition on Results, Harvard Business School Press, May 2006, and "How Physicians Can Change the Future of Health Care," *Journal of the American Medical Association*, 2007; 297:1103:1111. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means — electronic, mechanical, photocopying, recording, or otherwise — without the permission of Michael E. Porter and Elizabeth Olmsted Teisberg. Further information about these ideas, as well as case studies, can be found on the website of the Institute for Strategy & Competitiveness at http://www.isc.hbs.edu.

### **Redefining Health Care**

- Universal coverage is essential, but not enough
- The core issue in health care is the value of health care delivered

Value: Patient health outcomes per dollar spent



- How to design a health care system that dramatically improves value
  - Ownership of entities is secondary (e.g. non-profit vs. for profit vs. government)
- How to create a dynamic system that keeps rapidly improving

### **Creating a Value-Based Health Care System**

 Significant improvement in value will require fundamental restructuring of health care delivery, not incremental improvements

Today, 21<sup>st</sup> century medical technology is delivered with 19<sup>th</sup> century organization structures, management practices, and pricing models

 TQM, process improvements, and safety initiatives are beneficial but not sufficient to substantially improve value

#### **Creating a Value-Based Health Care System**

- Competition is a powerful force to encourage restructuring of care and continuous improvement in value
  - For patients
  - For health plan subscribers
- Today's competition in health care is not aligned with value

Financial success of Patient system participants



 Creating competition on value is the central challenge in health care reform

#### **Zero-Sum Competition in U.S. Health Care**

#### **Bad Competition**

- Competition to shift costs or capture a bigger share of revenue
- Competition to increase bargaining power
- Competition to capture patients and restrict choice
- Competition to restrict services in order to maximize revenue per visit or reduce costs



Zero or Negative Sum

#### **Good Competition**

 Competition to increase value for patients



- 1. The goal should be **value for patients**, not just lowering costs
  - Health outcomes are objective outcomes, not patient perceptions of the service experience
  - The costs of achieving outcomes are the total costs, not the costs borne by any one party



Improving value will require going beyond waste reduction and administrative savings

- 1. The goal should be value for patients, not just lowering costs
- 2. The best way to contain costs is to improve quality

Quality = Health outcomes

- Prevention
- Early detection
- Right diagnosis
- Early and timely treatment
- Treatment earlier in the causal chain of disease
- Right treatment to the right patients
- Fewer delays in the care delivery process
- Fewer complications
- Fewer mistakes and repeats in treatment

- Less invasive treatment methods
- Faster recovery
- More complete recovery
- Less disability
- Fewer relapses or acute episodes
- Slower disease progression
- Less need for long term care



Better health is inherently less expensive than poor health

- 1. The goal should be value for patients, not just lowering costs
- 2. The best way to contain costs is to drive improvement in quality
- 3. There must be competition for patients based on results

Value: Patient health outcomes

Total cost of achieving those outcomes

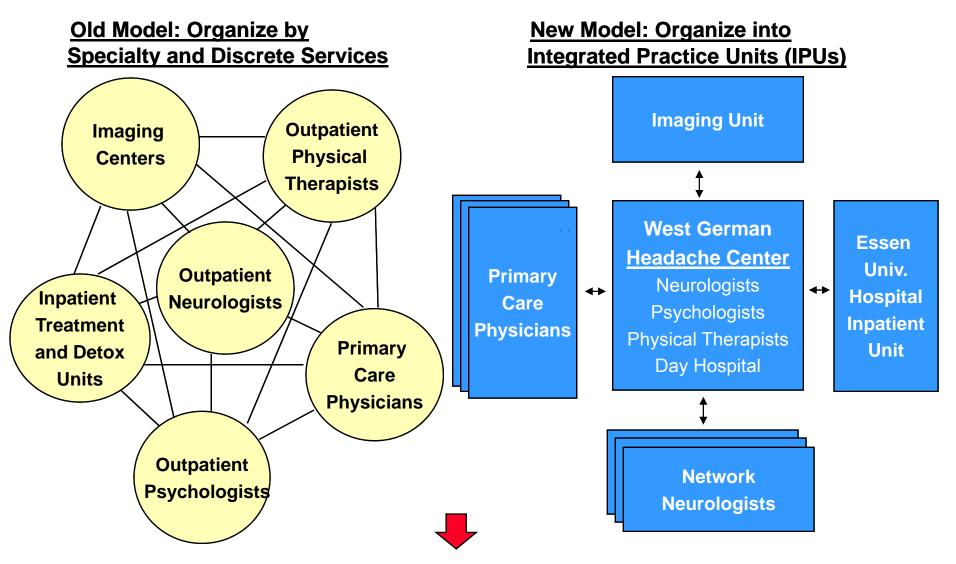
- Reward value vs. process compliance
- Get patients to excellent providers vs. "lift all boats" or "pay for performance"



- Expand the proportion of patients cared for by the most effective teams
- Grow the excellent teams by reallocating capacity and expanding across locations

- 1. The goal should be value for patients, not just lowering costs
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- 3. There must be competition for patients based on results
- 4. Competition should center on **medical conditions** over the **full cycle of care**

## Restructuring Health Care Delivery <u>Migraine Care in Germany</u>



Organize around the patient over the cycle of care, not the specialist/intervention/department

#### What is a Medical Condition?

- A medical condition is an interrelated set of patient medical circumstances best addressed in an integrated way
  - Defined from the patient's perspective
  - Involves multiple specialties and services
- Includes the most common co-occurring conditions
- Examples
  - Diabetes (including vascular disease, hypertension, others)
  - Breast Cancer
  - Stroke
  - Migraine
  - Asthma
  - Congestive Heart Failure



- The medical condition is the unit of value creation in health care delivery
- Many providers will operate multiple IPUs

# The Cycle of Care Care Delivery Value Chain for Breast Cancer

INFORMING & ENGAGING  MEASURING  ACCESSING	Advice on self screening     Consultation on risk factors      Self exams     Mammograms      Office visits     Mammography lab visits	Counseling patient and family on the diagnostic process and the diagnosis  Mammograms Ultrasound MRI Biopsy BRACA 1, 2 Office visits Lab visits High-risk clinic visits	patient choices of treatment •Achieving compliance	treatment and prognosis	Counseling     on rehabilitation     options, process     Achieving     compliance     Range of     movement     Side effects     measurement     Office visits     Rehabilitation     facility visits	Counseling on long term risk management  Achieving compliance  Recurring mammograms (every 6 months for the first 3 years)  Office visits  Lab visits  Mammographic labs and imaging center visits
	MONITORING/ PREVENTING  • Medical history • Control of risk factors (obesity, high fat diet) • Genetic screening • Clinical exams • Monitoring for lumps	• Medical history • Determining the specific nature of the disease • Genetic evaluation • Choosing a treatment plan	• Medical counseling • Surgery prep (anesthetic risk assessment, EKG) • Patient and family psychological counseling • Plastic or oncoplastic surgery evaluation	• Surgery (breast preservation or mastectomy, oncoplastic alternative) • Adjuvant therapies (hormonal medication, radiation, and/or chemotherapy)	RECOVERING/ REHABING  In-hospital and outpatient wound healing Psychological counseling Treatment of side effects ( skin damage, neurotoxic, cardiac, nausea, lymphodema and chronic fatigue) Physical therapy	MONITORING/ MANAGING  Periodic mammography Other imaging Follow-up clinical exams Treatment for any continued side effects
<ul> <li>Primary care providers are often the beginning and end of the care cycle</li> </ul>						☐ Breast Cancer Specialist ☐ Other Provider Entities

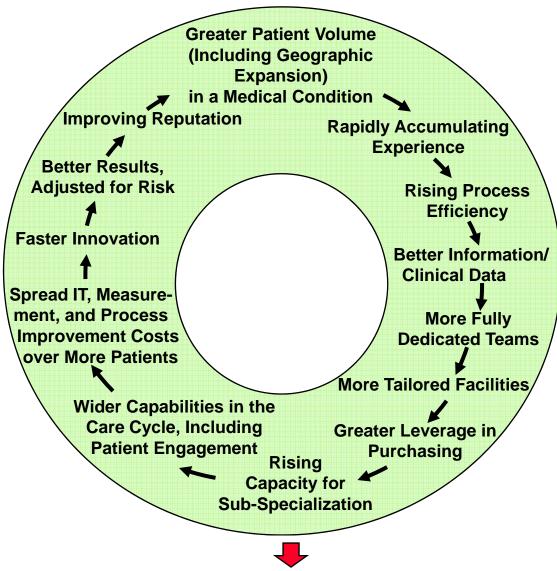
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### What is Integrated Care?

- Integration across specialties and departments in addressing a medical condition
- Integration over the care cycle for a medical condition
- Integration across medical conditions
- Integrated care is not:
  - Co-location per se
  - Care delivered by the same organization per se
  - Hyper-specialization
  - Freestanding focused factories
  - Vertically integrated health plan/provider systems

- 1. The goal should be value for patients, not just lowering costs
- 2. The best way to contain costs is to drive improvement in quality
- 3. There must be competition for patients based on results
- Competition should center on medical conditions over the full cycle of care
- 5. Value is driven by provider **experience**, **scale**, and **learning** at the medical condition level

### Experience, Scale, and Value in Health Care Delivery The Virtuous Circle in a Medical Condition



 The virtuous cycle extends across geography when care for a medical condition is integrated across locations

#### **Consequences of Service Fragmentation**

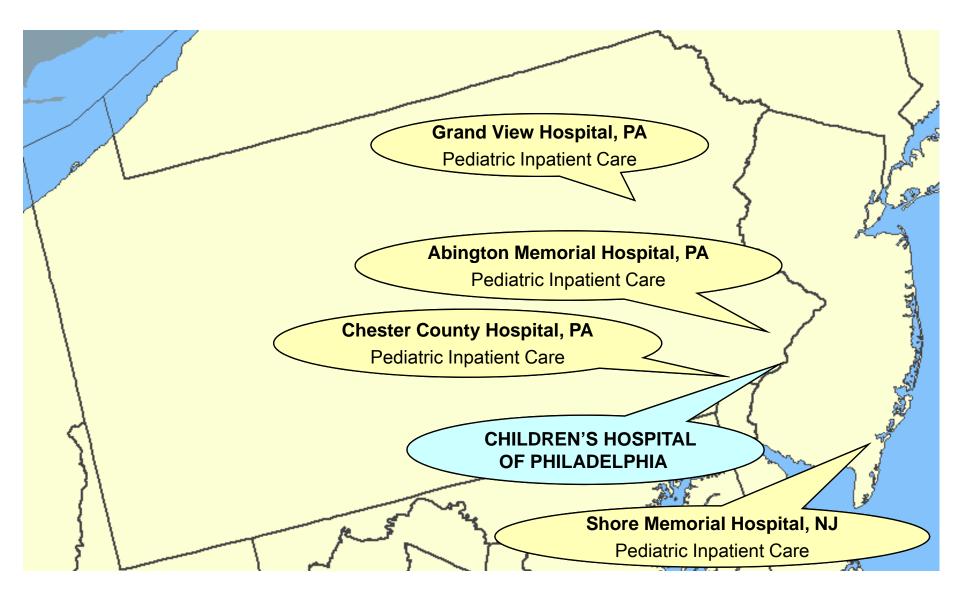
- Health care delivery in every country is highly fragmented
  - Extreme duplication of services
  - Low volume of patients per provider
  - Duplication and fragmentation are present even within affiliated hospitals or systems
- Most providers lack the scale and experience to justify dedicated facilities, dedicated teams, and integrated care over the cycle
- Fragmentation drives organizations into shared units
  - Specialties
  - Imaging
  - Procedures



Patient value suffers

- 1. The goal should be **value for patients**, not just lowering costs
- 2. The best way to contain costs is to drive improvement in quality
- 3. There must be unrestricted competition based on results
- Competition should center on medical conditions over the full cycle of care
- 5. Value is driven by provider **experience**, **scale**, and **learning** at the medical condition level
- 6. Competition should be regional and national, not just local
  - Providers should be selected based on excellence in a medical condition, rather than because they are the most convenient
  - Excellent providers can manage delivery across multiple geographies

# Managing Care Across Geography The Children's Hospital of Philadelphia (CHOP) Affiliations



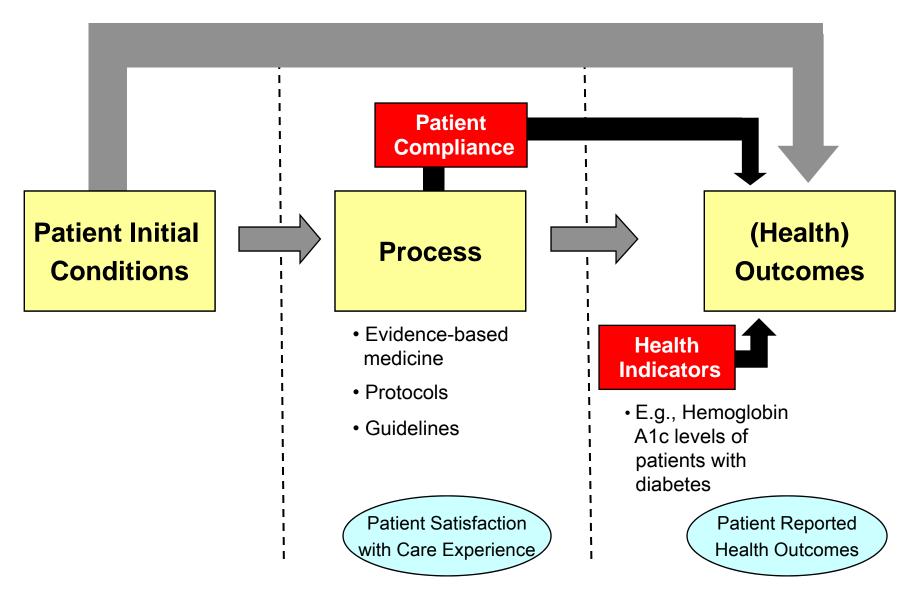
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- 6. Competition should be regional and national, not just local
- 7. Results must be universally measured and reported

Value: Patient health outcomes
Total cost of achieving

those outcomes

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### **Measuring Value in Health Care**



The primary goal is value, not access, equity

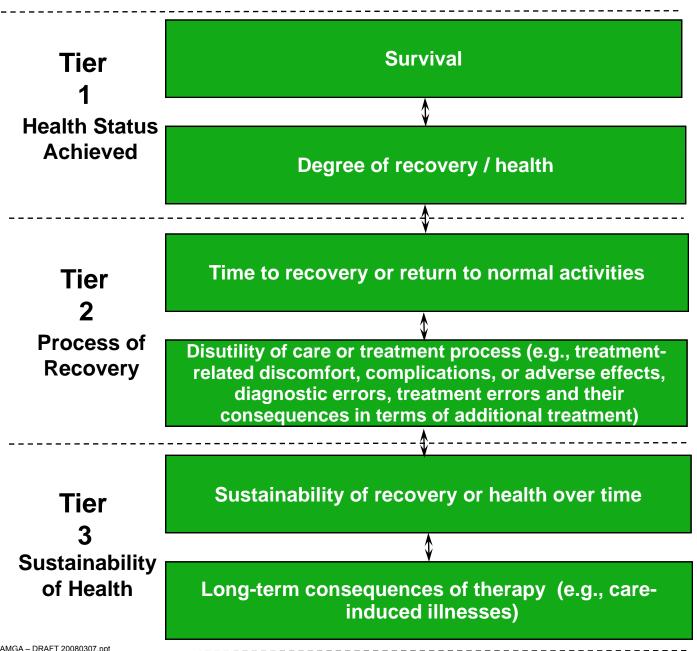
### **Measuring Value: The Unit of Analysis**

- The appropriate unit for measuring value must align with how value is created for patients
  - Across services
  - Across time
- Value should be measured for medical conditions over the cycle of care
  - vs. for hospitals, practices, clinics, or departments
  - vs. for types of service (e.g. inpatient, outpatient, tests, rehabilitation)
  - vs. for interventions or short episodes

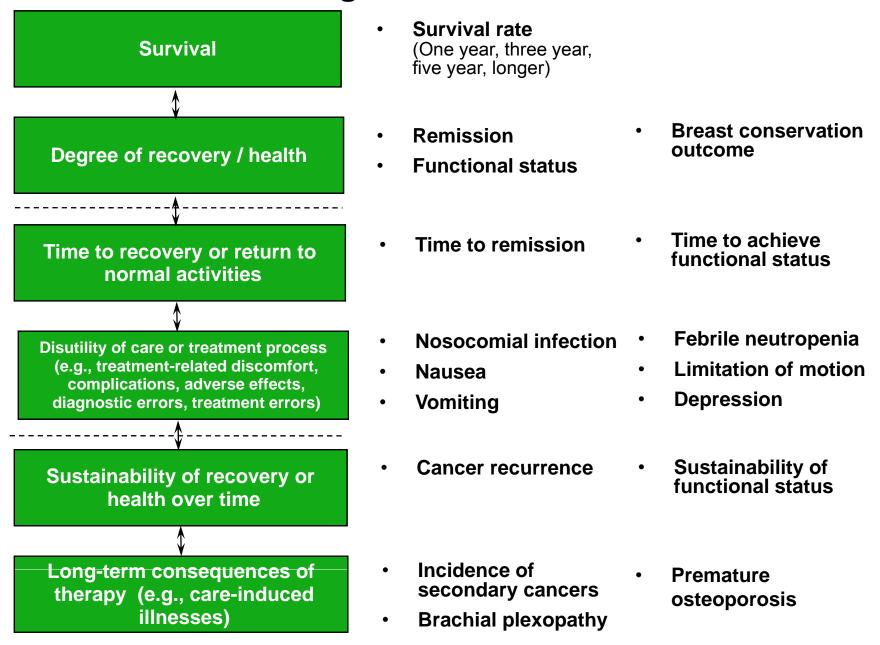


 Current efforts suffer from measuring value at differing/ inappropriate levels

#### The Outcome Measures Hierarchy



#### **Measuring Breast Cancer Outcomes**



## Measuring Initial Conditions <a href="mailto:Breast Cancer">Breast Cancer</a>

- Stage of disease
- Type of cancer (infiltrating ductal carcinoma, tubular, medullary, lobular, etc.)
- Estrogen and progesterone receptor status (positive or negative)
- Sites of metastases
- Age
- Menopausal status
- General health, including co-morbidities



 As care delivery improves, some initial conditions that once affected outcomes will decline in importance

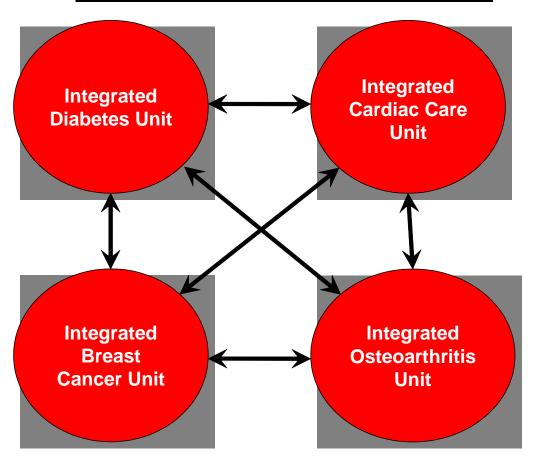
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- 5. Value is driven by provider **experience**, **scale**, and **learning** at the medical condition level
- 6. Competition should be regional and national, not just local
- 7. Results must be universally measured and reported
- 8. Reimbursement should be aligned with **value** and reward innovation
  - Reimbursement for care cycles, not discrete treatments or services
  - Reimbursement for prevention and screening, not just treatment
  - Reimbursement for overall management of chronic conditions
  - Most DRG systems are too narrow

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- 9. Information technology will enable restructuring of care delivery and measuring results, but is not a solution by itself
  - Common data definitions
  - Interoperability standards
  - Include all types of data (e.g. notes, images)
  - Patient-centered database
  - Cover the full care cycle, including referring entities
  - Accessible to all involved parties

### Moving to Value-Based Competition Implications for Providers

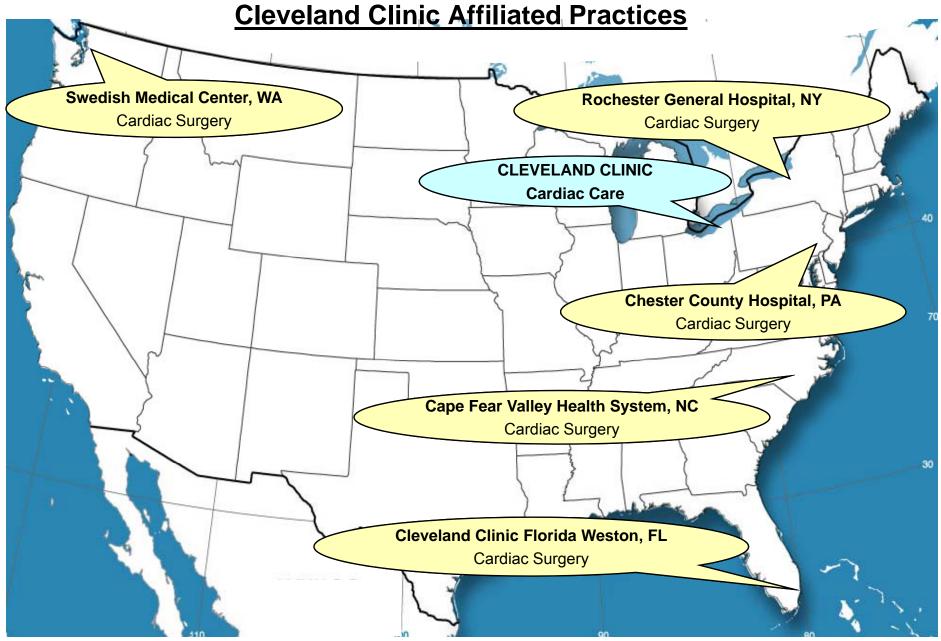
- Organize around integrated practice units (IPUs) for each medical condition
  - With mechanisms for cross-IPU coordination
- Choose the appropriate scope of services in each facility based on excellence in patient value
- Integrate services for each IPU / medical condition across geographic locations
- Employ formal partnerships and alliances with independent practices involved in the care cycle to integrate care, improve capabilities, and/or obtain consultations
- Measure outcomes and costs for every medical condition over the full care cycle
- Implement a single, integrated, patient centric electronic medical record system which is utilized by every unit and accessible to partners, referring physicians, and patients
- Lead the development of new contracting models with health plans based on bundled reimbursement for care cycles
- Expand high-performance IPUs across geography using an integrated model
  - Instead of a federation of broad line, stand-alone facilities

### Patients with Multiple Medial Conditions <a href="Coordinating Care Across IPUs">Coordinating Care Across IPUs</a>

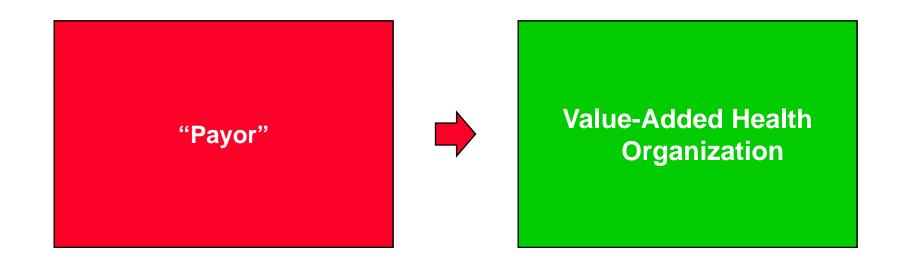


- The primary organization of care delivery should be around the integration required for every patient
- IPUs will greatly simplify the coordination of care for patients with multiple medical conditions
- The patient with multiple conditions will be better off in an IPU model

### Managing Care Across Geography Claveland Clinic Affiliated Practices



# Moving to Value-Based Competition Health Plans



### Moving to Value-Based Competition Value-Adding Roles of Health Plans

- Assemble, analyze and manage the total medical records of members
- Provide for comprehensive prevention, screening, and chronic disease management services to all members
- Monitor and compare provider results by medical condition
- Provide advice to patients (and referring physicians) in selecting excellent providers
- Assist in coordinating patient care across the care cycle and across medical conditions
- Encourage and reward integrated practice unit models by providers
- Design new bundled reimbursement structures for care cycles instead of fees for discrete services
- Measure and report overall health results for members by medical condition versus other plans
- Health plans will require new capabilities and new types of staff to play these roles

# Creating a High-Value Health Care System: Roles and Responsibilities

#### **Employers**

- Set the goal of employee health
- Assist employees in healthy living and active participation in their own care
- Provide for convenient and high value prevention, screening, and disease management services
  - On site clinics
- Set new expectations for health plans, including self-insured plans
  - Plans should assist subscribers in accessing excellent providers for their medical condition
  - Plans should contract for care cycles rather than discrete services
- Provide for health plan continuity for employees, rather than plan churning
- Find ways to expand insurance coverage and advocate reform of the insurance system



 Measure and hold employee benefit staff accountable for the company's health value received

# Creating a High-Value Health Care System: Roles and Responsibilities

#### **Consumers**

- Participate actively in managing personal health
- Expect relevant information and seek advice
- Make treatment and provider choices based on outcomes, not convenience or amenities
- Comply with treatment and preventative practices
- Work with the health plan in long-term health management
  - Shifting plans frequently is not in the consumer's interest



 But "consumer-driven health care" is the wrong metaphor for reforming the system

### Moving to Value-Based Competition Government

- Establish universal measurement and reporting of health outcomes
- Create IT standards including data definitions, interoperability standards, and deadlines for implementation to enable the collection and exchange of medical information for every patient
- Remove obstacles to the restructuring of health care delivery around the integrated care of medical conditions
- Shift reimbursement systems to bundled prices for cycles of care instead of payments for discrete treatments or services
- Limit provider price discrimination across patients based on group membership
- Open up competition among providers and across geography

#### Moving to Value-Based Competition Government, cont'd.

- Require health plans to measure and report health outcomes for members
- Encourage the responsibility of individuals for their health and their health care

### **How Will Redefining Health Care Begin?**

- It is already happening in the U.S. and other countries
- Providers, as well as health plans and employers, can take voluntary steps in these directions, and will benefit irrespective of other changes
- The changes will be mutually reinforcing
- Once competition begins working, value improvement will no longer be discretionary or optional
- Those organizations that move early will gain major benefits



Providers and health plans can and should take the lead