#### 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, "How Physicians Can Change the Future of Health Care," *Journal of the American Medical Association*, 2007; 297:1103:1111, and "What is Value in Health Care," ISC working paper, 2008. 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, safety initiatives, pharmacy management, and disease management overlays are beneficial but not sufficient to substantially improve value
- Consumers cannot fix the dysfunctional structure of the current system

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

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

Financial success of system participants



Patient success



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

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

#### **Bad Competition**

- Competition to shift costs or capture more 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 must be value for patients, not lowering costs



 Improving value will require going beyond waste reduction and administrative savings

- 1. The goal must be value for patients, not lowering costs
  - 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
- Rapid care delivery process with fewer delays
- 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
- Better health is the goal, not more treatment

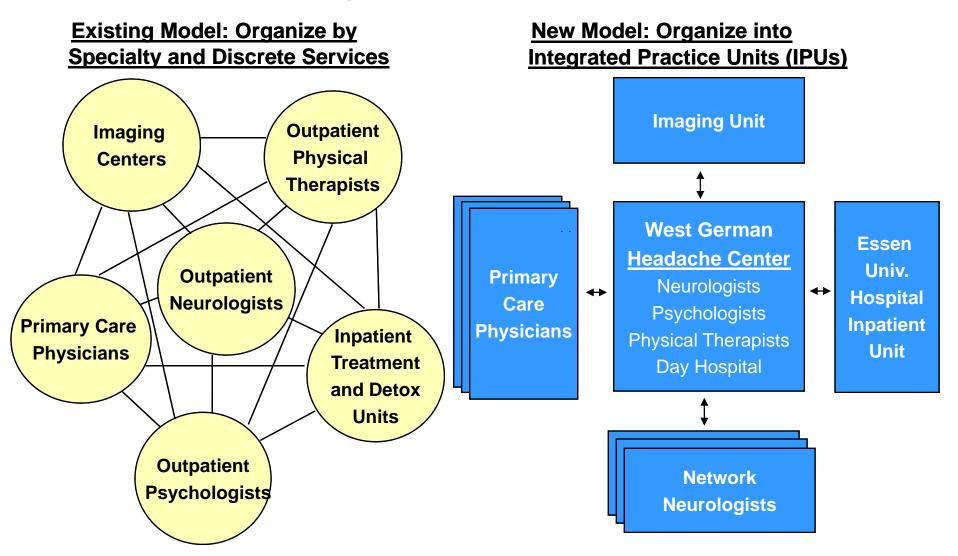
- 1. The goal must be **value for patients**, not lowering costs
  - Providers should compete for patients based on value
    - Instead of supply control, process compliance, or administrative oversight



- Get patients to excellent providers vs. "lift all boats"
- Expand the proportion of patients cared for by the most effective organizations
- Grow the excellent organizations by adding capacity and expanding across locations

- 1. The goal must be value for patients, not lowering costs
- 2. Health care delivery should be organized around medical conditions over the full cycle of care
  - A medical condition is an interrelated set of patient medical circumstances best addressed in an integrated way
    - Defined from the patient's perspective
    - Involving multiple specialties and services
  - Includes the most common co-occurring conditions
  - Examples
    - Diabetes (including vascular disease, retinal disease, hypertension, others)
    - Migraine
    - Breast Cancer
    - Stroke
    - Asthma
    - Congestive Heart Failure

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



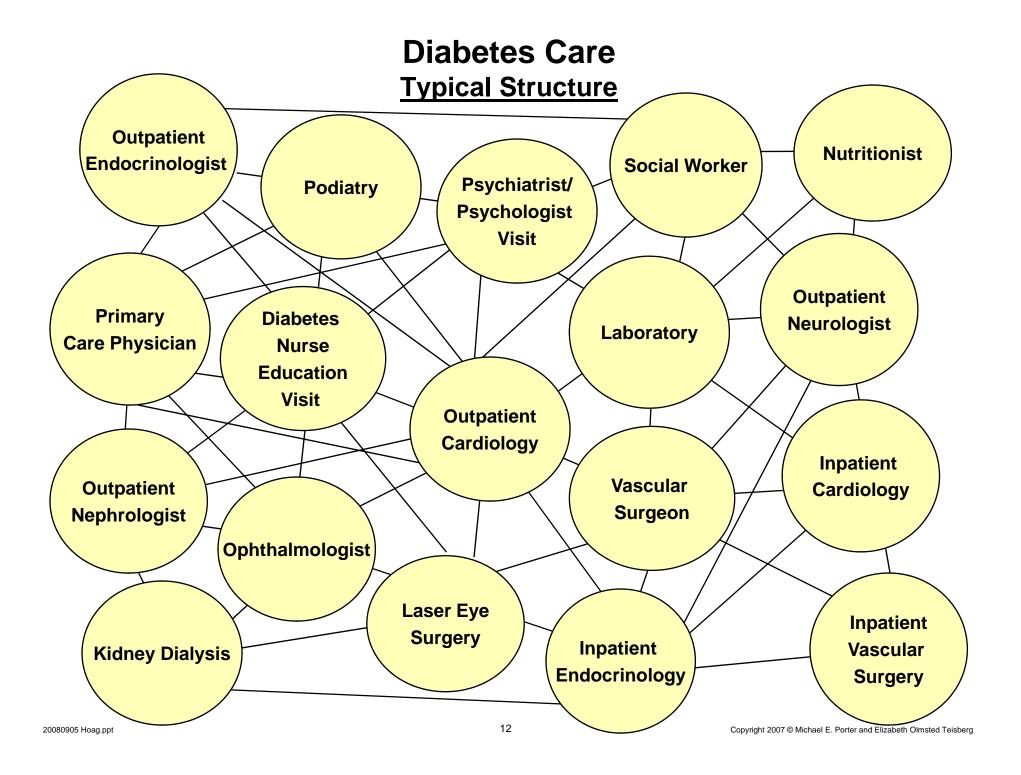
Source: Porter, Michael E., Clemens Guth, and Elisa Dannemiller, *The West German Headache Center: Integrated Migraine Care*, Harvard Business School Case 9-707-559, September 13, 2007

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

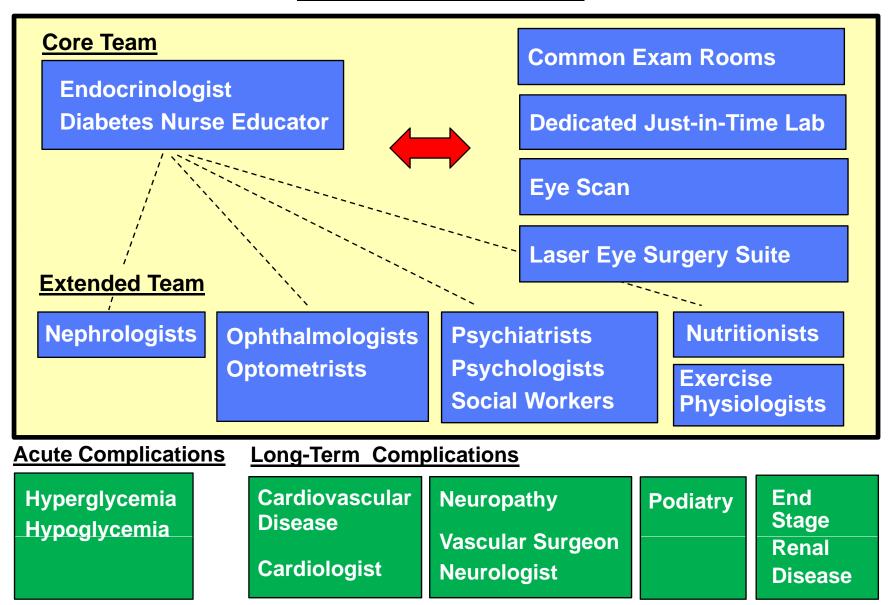
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INFORMING & ENGAGING	<ul> <li>Advice on self screening</li> <li>Consultation on risk factors</li> <li>Self exams</li> </ul>	patient and family on the diagnostic process and the diagnosis  • Mammograms		the treatment process Achieving compliance	Counseling on rehabilitation options, process Achieving compliance Psychological counseling Range of	Counseling on long term risk management Achieving compliance  Recurring
ACCESSING	Mammograms	Ultrasound     MRI     Biopsy     BRACA 1, 2		specific measurements	movement Side effects measurement	mammograms (every 6 months for the first 3 years)
	<ul><li>Office visits</li><li>Mammography</li><li>lab visits</li></ul>	Lab visits     High-risk     clinic visits	Hospital visits	<ul> <li>Hospital stay</li> <li>Visits to outpatien or radiation chemotherapy units</li> </ul>	facility visits	• Office visits • Lab visits • Mammographic labs and imaging center visits
	MONITORING/ PREVENTING	DIAGNOSING	PREPARING	INTERVENING	RECOVERING/ REHABING	MONITORING/ MANAGING
	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	Surgery prep (anesthetic risk assessment, EKG)      Plastic or oncoplastic surgery evaluation	Surgery (breast preservation or mastectomy, oncoplastic alternative)     Adjuvant therapies (hormonal medication, radiation, and/or chemotherapy)	• In-hospital and outpatient wound healing • Treatment of side effects (e.g. skin damage, cardiac complications, nausea, lymphodema and chronic fatigue) • Physical therapy	MONITORING/MANAGING  • Periodic mammography • Other imaging • Follow-up clinical exams • Treatment for any continued side effects
Primary care providers are often the beginning and end of the care cycle					☐ Breast Cancer Specialis	

- Primary care providers are often the beginning and end of the care cycle
- The medical condition is the unit of value creation in health care delivery

□Breast Cancer Specialist □Other Provider Entities



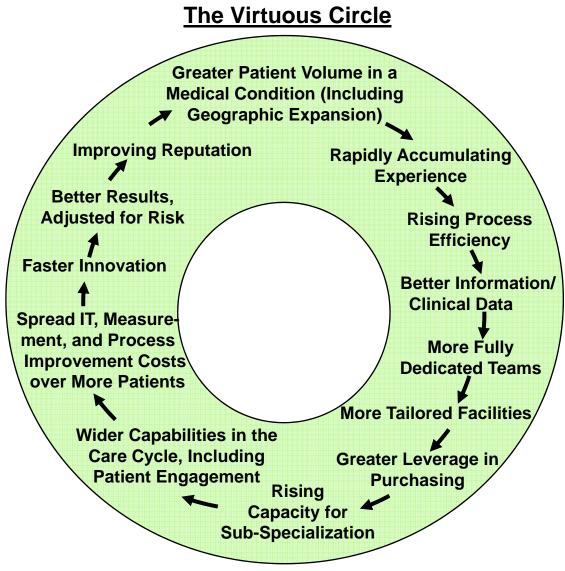
### Integrated Diabetes Care <u>Joslin Diabetes Center</u>



#### What is Integrated Care?

- Integration of specialties and services over the care cycle for a medical condition (IPU)
  - Optimize the whole versus the parts
  - Providers will often operate multiple IPUs
- For some patients, coordination of care across medical conditions
  - A patient can be cared for by more than one IPU
- Integrated care is not just:
  - Co-location
  - Care delivered by the same organization
  - A multispecialty group practice
  - Freestanding focused factories
  - A Center
  - An Institute
  - A health plan/provider system

 Value is driven by provider experience, scale, and learning at the medical condition level



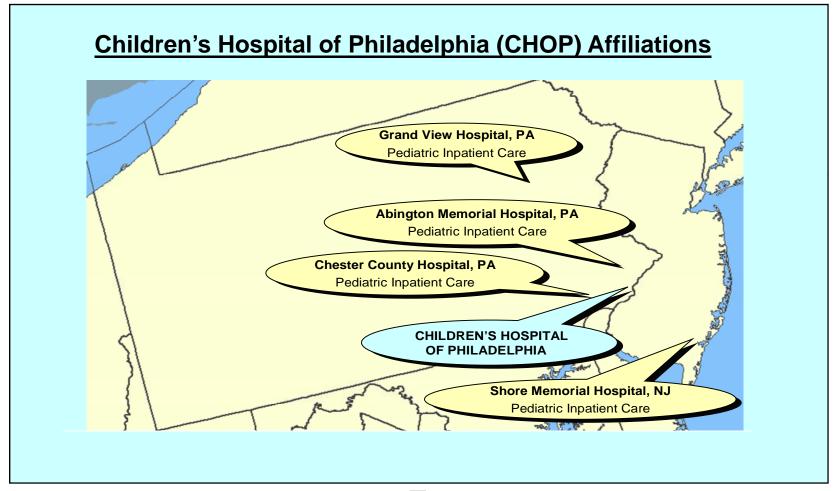
#### **Consequences of Service Fragmentation**

- Health care delivery in every country is highly fragmented
  - Extreme duplication of services
  - Low volume of patients per medical condition 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

 Health care delivery should be integrated across facilities and regions, rather than take place in stand-alone units





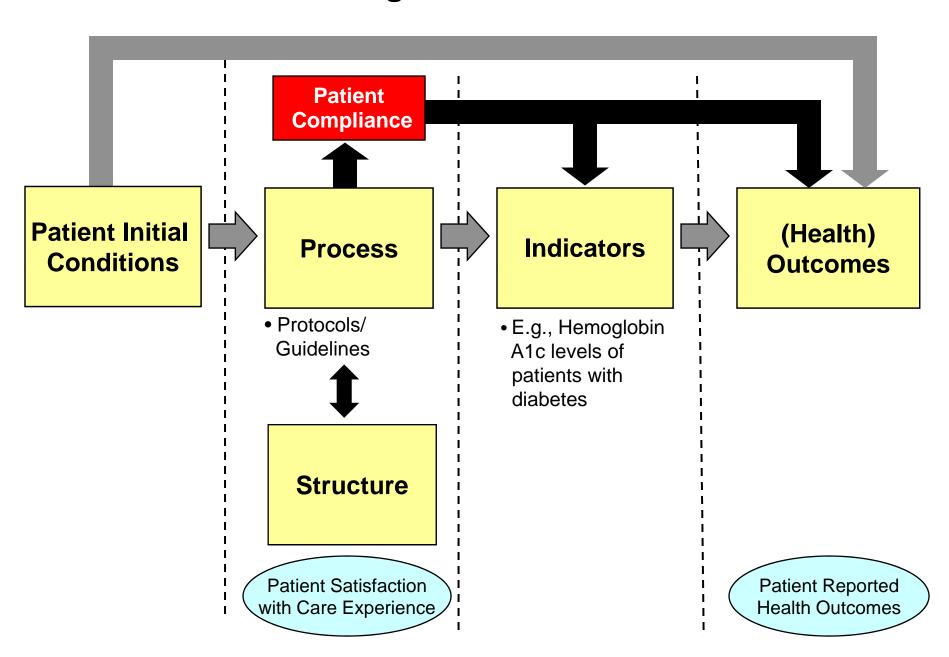
Excellent providers can manage care delivery across multiple geographies

- 1. The goal must be value for patients, not lowering costs
- 2. Health care delivery should be organized around **medical** conditions over the full cycle of care
- 3. Value must be universally measured and reported
  - For medical conditions over the cycle of care
    - Not for interventions or short episodes
    - Not for practices, departments, clinics, or hospitals
    - Not separately for types of service (e.g. inpatient, outpatient, tests, rehabilitation)

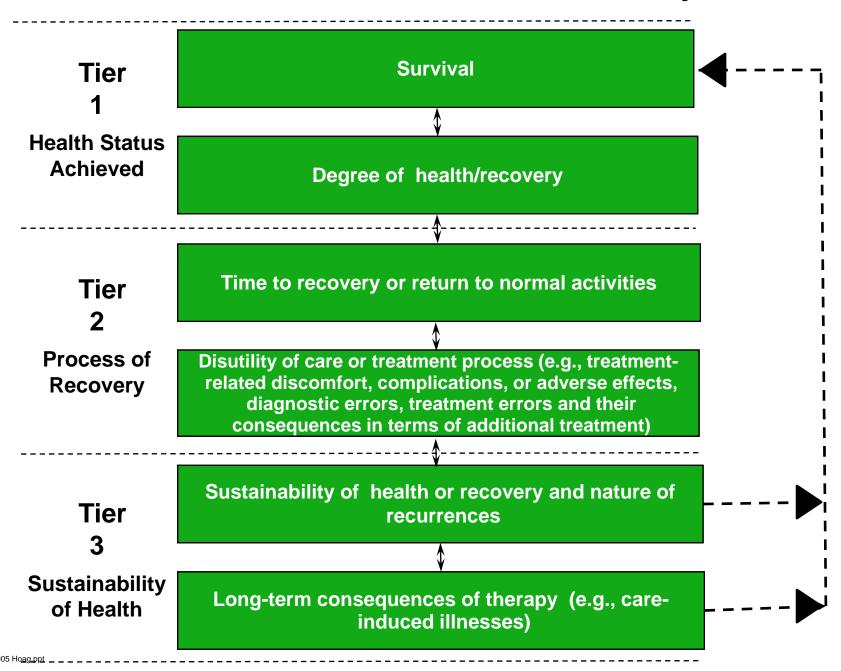


 Results must be measured at the level at which value is created for patients

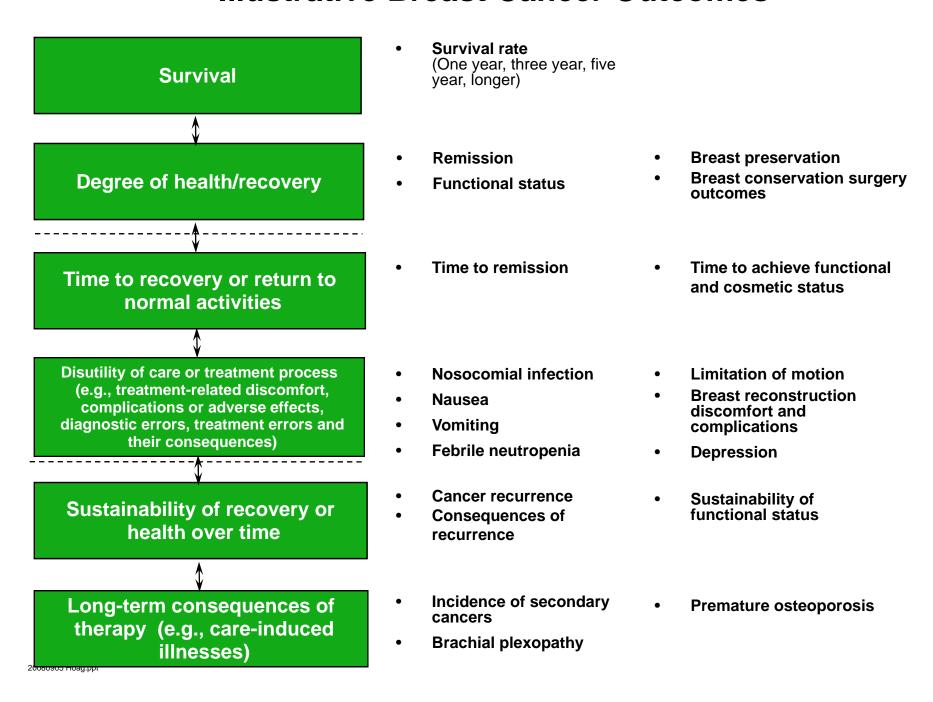
#### **Measuring Value in Health Care**



#### The Outcome Measures Hierarchy



#### **Illustrative 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
- Previous treatments
- Age
- Menopausal status
- General health, including co-morbidities
- Psychological and social factors



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

#### Measuring Value: Essential Principles

- Outcomes should be measured at the medical condition level
- Outcomes should be adjusted for patient initial conditions
- Physicians need results measurement to support value improvement
  - Use of measures by patients will develop more slowly
- Outcome measurement should not wait for perfection: measures and risk adjustment methods will improve rapidly
- The feasibility of outcome measurement at the medical condition level has been conclusively demonstrated



 Failure to measure outcomes will invite further micromanagement of physician practice

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- 3. Value must be universally measured and reported
- 4. Reimbursement should be aligned with **value** and reward innovation
  - Bundled reimbursement for **care cycles**, not payment for discrete treatments or services
    - Most DRG systems are too narrow
  - Reimbursement adjusted for patient complexity
  - Reimbursement for overall management of chronic conditions
  - Reimbursement for **prevention and screening**, not just treatment



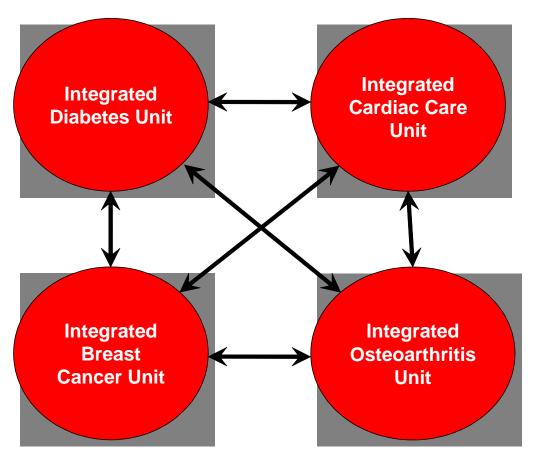
 Providers should be proactive in moving to new reimbursement models, not wait for health plans and Medicare

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- 3. Value must be universally measured and reported
- 4. Reimbursement should be aligned with **value** and reward innovation
- Information technology will enable restructuring of care delivery and measuring results, but is not a solution by itself
  - Common data definitions
  - Interoperability standards
  - Patient-centered database
  - Include all types of data (e.g. notes, images)
  - Cover the full care cycle, including referring entities
  - Accessible to all involved parties

#### Principles of Value-Based Health Care Delivery Implications for Providers

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

### 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 also greatly simplify coordination of care for patients with multiple medical conditions
- The patient with multiple conditions will be better off in an IPU model

#### ThedaCare Health System Rationalizing Service Lines

### ThedaClark Medical Center

- Neurology and neurosurgery at ThedaClark
- Trauma care at ThedaClark
- Bariatrics at ThedaClark
- Inpatient rehabilitation at ThedaClark
- Pediatric inpatient care outsourced to Children's Hospital of Wisconsin-Fox Valley

### Appleton Medical Center

- Cardiac surgery at Appleton
- Radiation oncology at Appleton
- Created Orthopedics Plus, an IPU



Critical access community hospitals coordinate services with larger hospitals

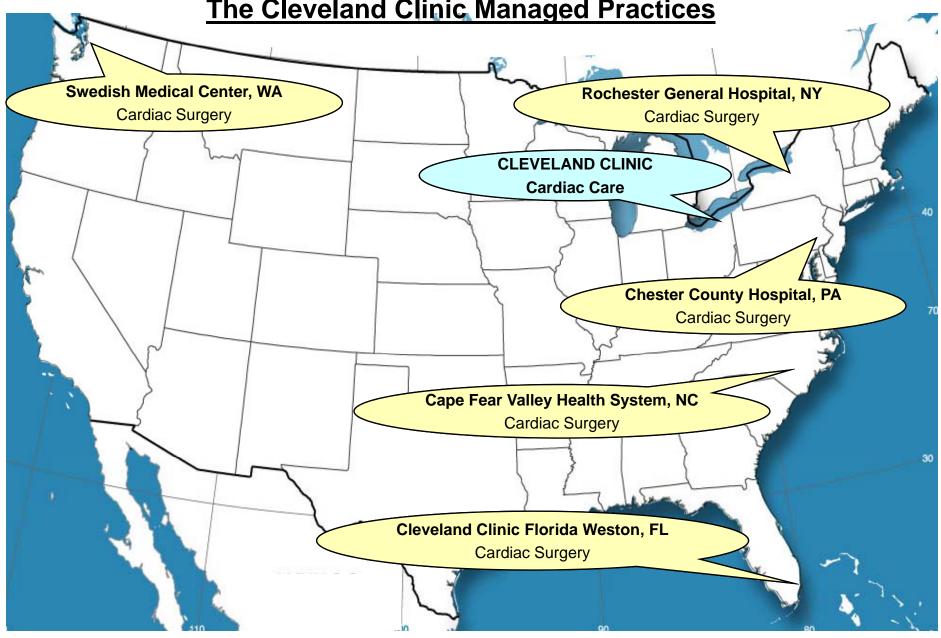
New London Family
Medical Center

**Community Hospital** 

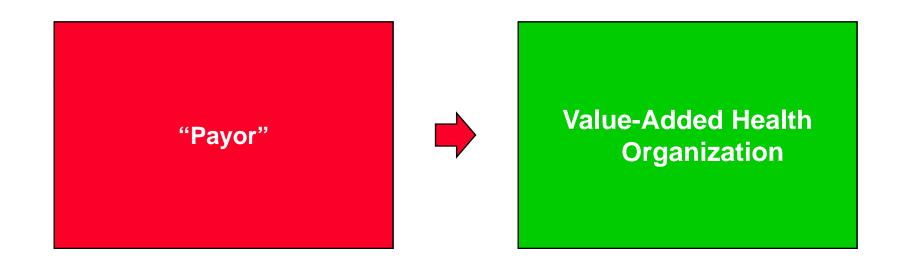
ICU care transferred to other ThedaCare sites

Riverside Medical Center
Community Hospital

### Managing Care Across Geography <a href="https://example.com/https://example.com/">The Cleveland Clinic Managed Practices</a>



## Creating a High-Value Health Care System Health Plans



#### 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 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 measure and improve member health results, and expect providers to do the same
  - 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

#### **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 can and should take the lead