Value-Based Health Care Delivery

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This presentation draws on Michael E. Porter and Elizabeth Olmsted Teisberg: <u>Redefining Health Care: Creating Value-Based Competition on</u> <u>Results</u>, 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 <u>http://www.isc.hbs.edu</u>.

Redefining Health Care Delivery

- Universal coverage and access to care are 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 patient value
 - Ownership of entities is secondary (e.g. non-profit vs. for profit vs. government)
- How to construct a dynamic system that keeps rapidly improving

Creating a Value-Based Health Care System

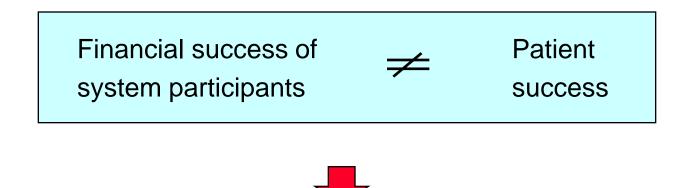
 Significant improvement in value will require fundamental restructuring of health care delivery, not incremental improvements

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

- Process improvements, lean production concepts, safety initiatives, care pathways, disease management and other overlays to the current structure are beneficial but not sufficient
- Consumers cannot fix the dysfunctional structure of the current system

Harnessing Competition on Value

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



• Creating positive-sum **competition on value** is a central challenge in health care reform in every country

1. Set the goal as **value for patients**, not access, equity, volume, convenience, or cost containment





- Outcomes are the **full set of** *patient* health outcomes over the care cycle
- Costs are the total costs of the care for the patient's condition, not just the costs borne by a single provider

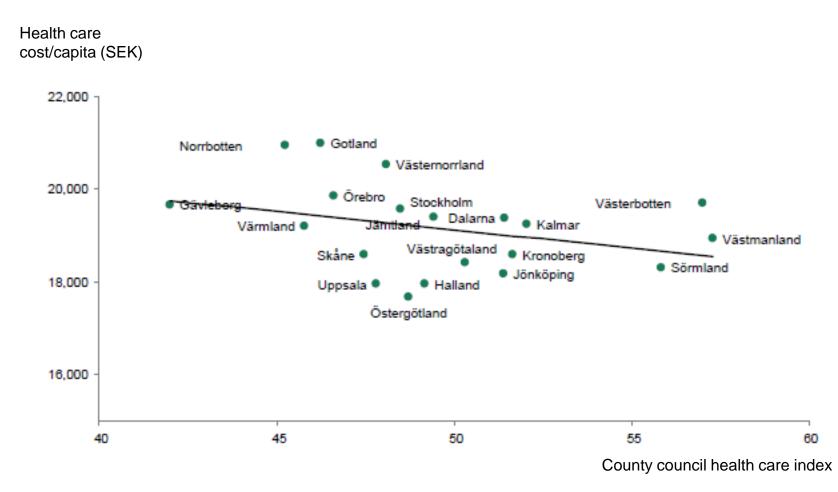
- Set the goal as value for patients, not containing costs 1.
- 2. Quality improvement is the key driver of cost containment and value improvement, where quality is health outcomes
 - Prevention
 - Early detection
 - **Right diagnosis**
 - Early and timely treatment Faster recovery
 - Treatment earlier in the causal More complete recovery chain of disease
 - Right treatment to the right patient
 - and care
 - Less invasive treatment methods

- Fewer complications
- Fewer mistakes and repeats in treatment

- Less disability
- Fewer relapses or acute episodes
- Rapid cycle time of diagnosis Slower disease progression
 - Less need for long term care
 - Less care induced illness

- Better health is the goal, not more treatment •
- Better health is **inherently less expensive** than poor health •

Cost versus Quality in Sweden

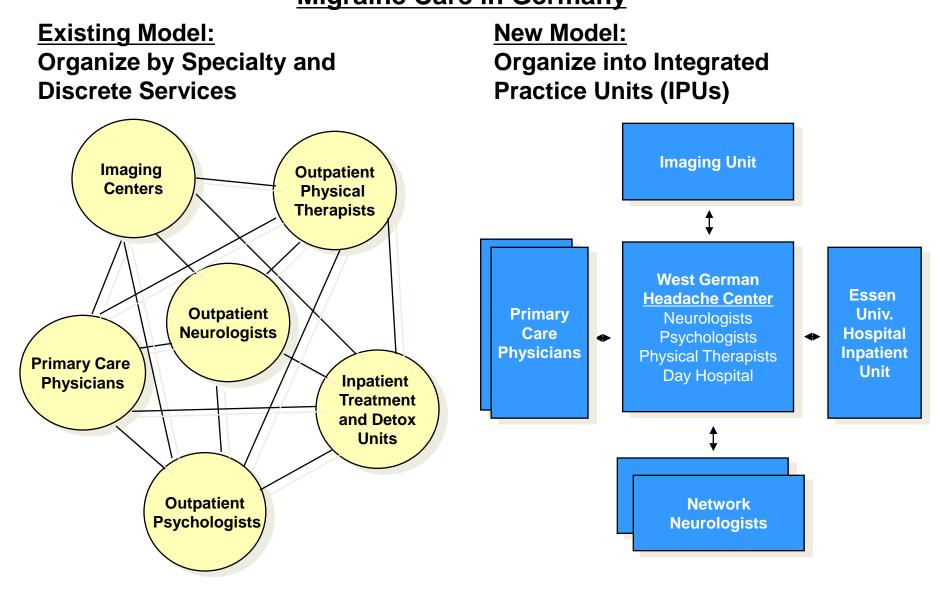


Note: Cost including; primary care, specialized somatic care, specialized psychiatry care, other medical care, political health- and medical care activities, other subsidies (e.g. drugs) Source: Opnna jämförelser, Socialistyrelsen 2008;Sjukvårdsdata i fokus 2008; BCG analysis

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- 2. Quality improvement is the key driver of cost containment and value improvement, where quality is health outcomes
- 3. Care delivery should be organized around the patient's **medical condition** 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
 - Including the most common co-occurring conditions and complications
 - Involving multiple specialties and services

• The patient's medical condition is the **unit of value creation** in health care delivery

Restructuring 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

Integrating Across the Cycle of Care Breast Cancer

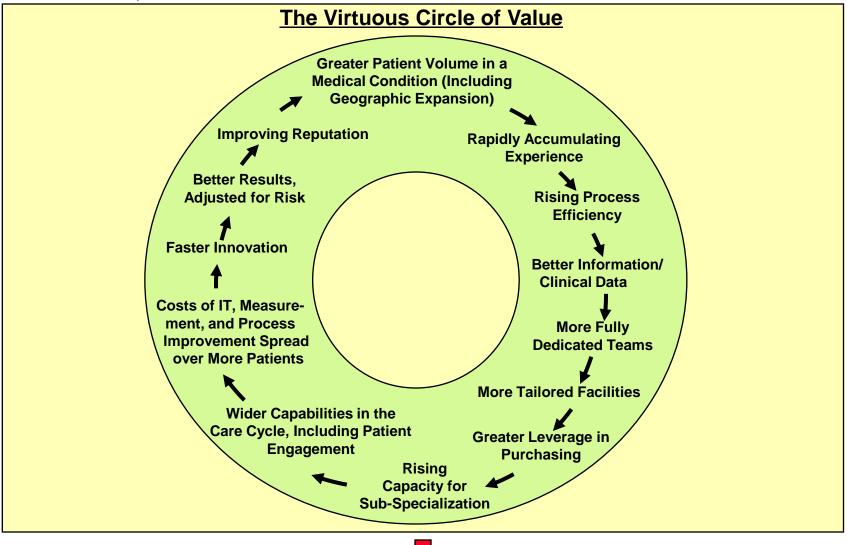
Informing and Engaging	Advice on self s Consultations of factors		• Counseling patient and family on the diagnostic process and the diagnosis	Explaining patient treatment options/shared decision making Patient and family psychological counseling	Counseling on the treatment process Education on managing side effects and avoiding complications of treatment Achieving compliance	 Counseling on rehabilitation options, process Achieving compliance Psychological counseling 	 Counseling on long term risk management Achieving Compliance
Measuring	Self exams Mammograms		Mammograms Ultrasound MRI Labs (CBC, Blood chems, etc.) Biopsy BRACA 1, 2 CT Bone Scans	•Labs	Procedure-specific measurements	Range of movement Side effects measurement	•MRI, CT •Recurring mammograms (every six months for the first 3 years)
Accessing	Office visits Mammography	lab visits	Office visits Lab visits High risk clinic visits	Office visits Hospital visits Lab visits	Hospital stays Visits to outpatient radiation or chemotherapy units Pharmacy	Office visits Rehabilitation facility visits Pharmacy	Office visits Lab visits Mammographic labs and imaging center visits
	MONITORI PREVENT		DIAGNOSING	PREPARING	INTERVENING	RECOVERING/ REHABING	
		fing factors at diet) ing	 Medical history Determining the specific nature of the disease (mammograms, pathology, biopsy results) 	PREPARING • Choosing a treatment plan • Surgery prep (anesthetic risk assessment, EKG)	INTERVENING • Surgery (breast preservation or mastectomy, oncoplastic alternative)	REHABING • In-hospital and outpatient wound healing • Treatment of side effects (e.g. skin damage, cardiac complications, nausea, lymphodema	Periodic mammography Other imaging Follow-up clinical exams
	•Medical history •Control of risk fa (obesity, high fa •Genetic screeni •Clinical exams	fing factors at diet) ing	 Medical history Determining the specific nature of the disease (mammograms, pathology, biopsy 	 Choosing a treatment plan Surgery prep (anesthetic risk 	Surgery (breast preservation or mastectomy, oncoplastic	REHABING • In-hospital and outpatient wound healing • Treatment of side effects (e.g. skin damage, cardiac complications,	Periodic mammography Other imaging Follow-up clinical

Breast Cancer Specialist Other Provider Entities

Integrated Models of Primary Care

- Today's primary care structures are fragmented and attempt to address overly broad needs with limited resources
- Redefine primary care as sets of prevention, screening, diagnosis, and wellness/health maintenance services for specific patient groups
- Deliver primary care service bundles using multidisciplinary teams, support staff, and facilities to allow effective management of the patient's care cycle
- Design service bundles around specific patient populations (e.g. healthy adults, frail elderly, type II diabetics) rather than attempt to be all things to all patients
- Create formal partnerships between primary care organizations and specialty IPUs
- Deliver primary care at the workplace, community organizations, and other settings that offer regular patient contact and the ability to develop a group culture of wellness

4. Provider **experience**, **scale**, and **learning** at the medical condition level drive value improvement



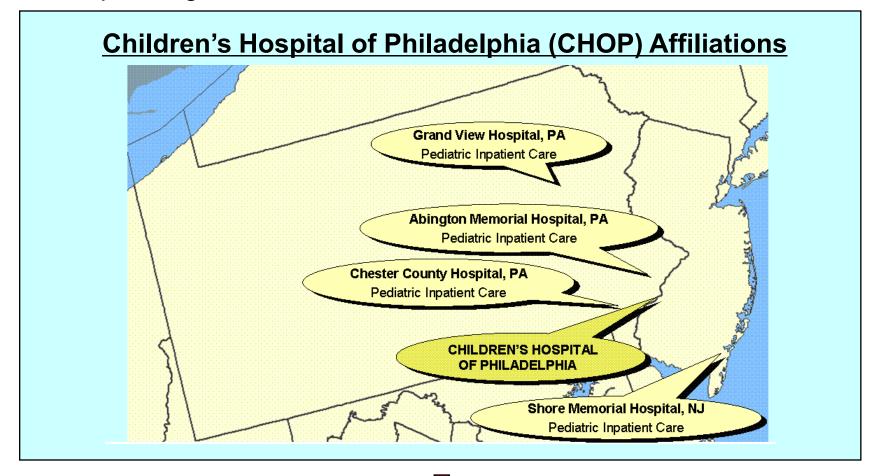
- Volume and experience will have a much greater impact on value in an IPU structure
- The virtuous circle extends across geography in integrated care organizations

Fragmentation of Hospital Services Sweden

DRG	Number of admitting providers	Average percent of total national admissions	Average admissions/ provider/ year	Average admissions/ provider/ week
Knee Procedure	68	1.5%	55	1
Diabetes age > 35	80	1.3%	96	2
Kidney failure	80	1.3%	97	1
Multiple sclerosis and cerebellar ataxia	78	1.3%	28	1
Inflammatory bowel disease	73	1.4%	66	1
Implantation of cardiac pacemaker	51	2.0%	124	2
Splenectomy age > 17	37	2.6%	3	<1
Cleft lip & palate repair	7	14.2%	83	2
Heart transplant	6	16.6%	12	<1

Source: Compiled from The National Board of Health and Welfare Statistical Databases - DRG Statistics, Accessed April 2, 2009.

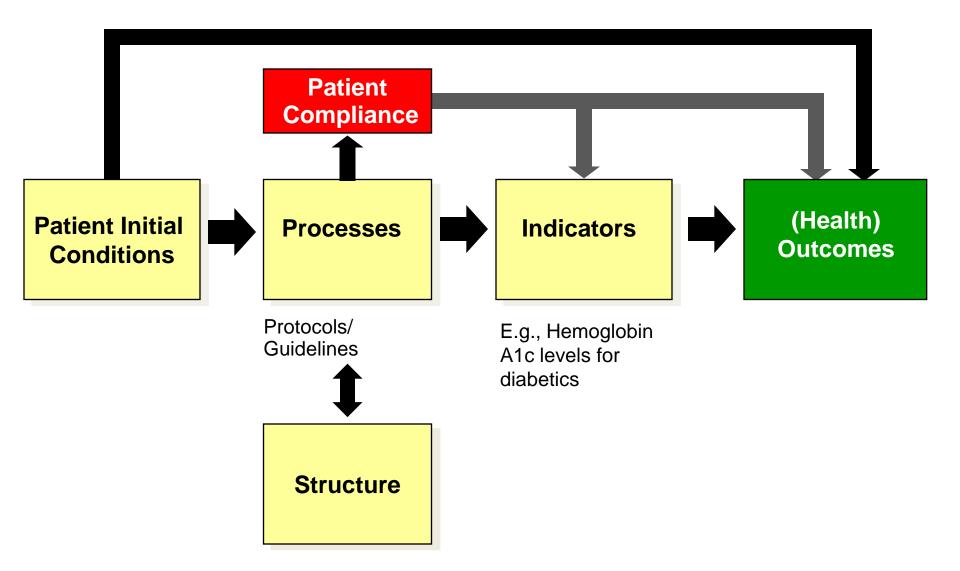
5. Integrate care across facilities and geography, rather than duplicating services in stand-alone units



- Deliver services in the **appropriate** facility, not every facility
- Excellent providers can manage care delivery across multiple geographic areas

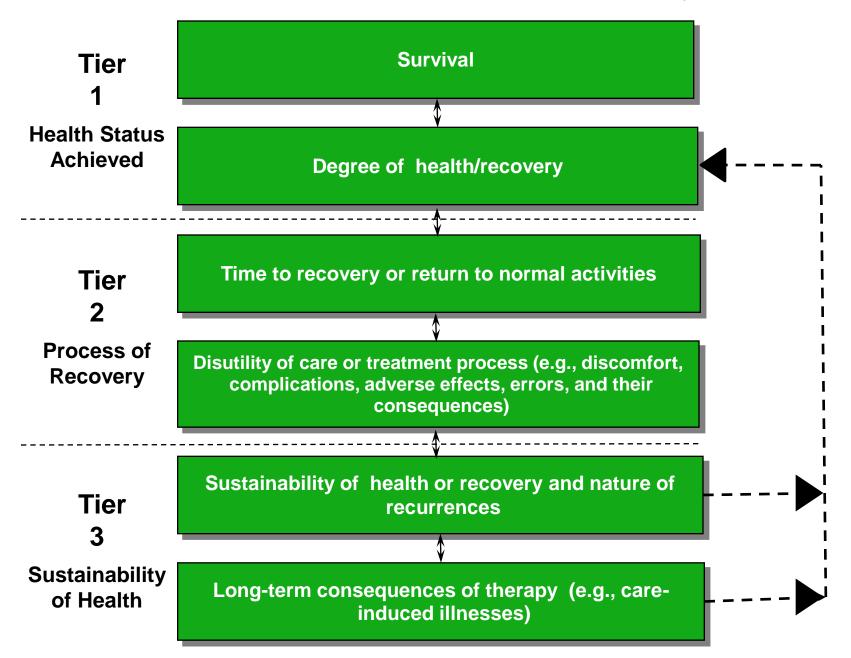
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- 2. Quality improvement is the key driver of cost containment and value improvement, where quality is health outcomes
- 3. Care delivery should be organized around the patient's **medical condition** over the **full cycle of care**
- 4. Provider experience, scale, and learning at the medical condition level drive value improvement
- 5. Integrate care across facilities and geography, rather than duplicating services in stand-alone units
- 6. Measure and report **outcomes** and **costs** for every provider, every medical condition, and every patient

Measuring Value in Health Care

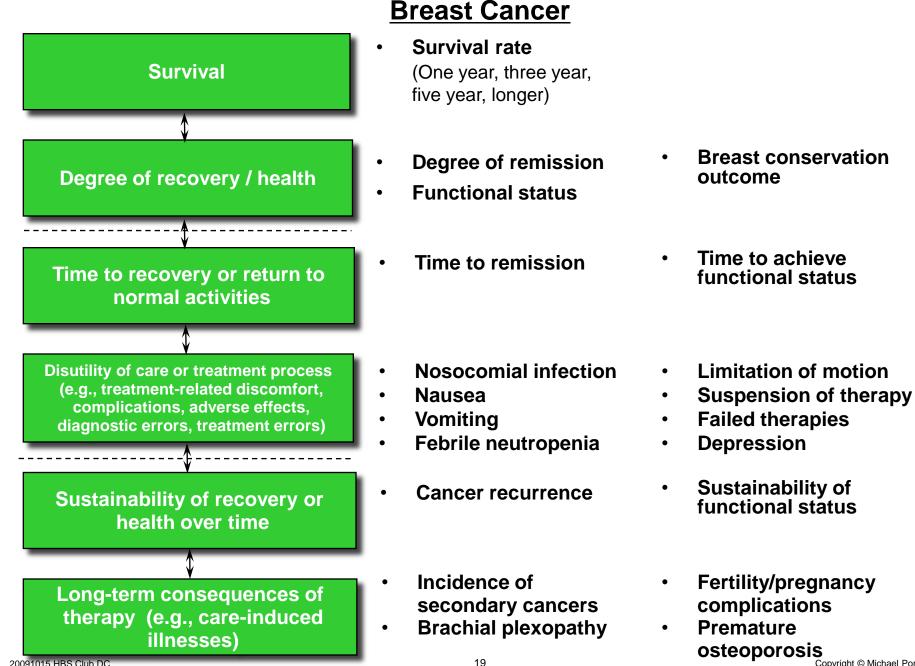


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- 5. **Integrate care across facilities** and **geography**, rather than duplicating services in stand-alone units
- 6. Measure and report **outcomes** and **costs** for every provider, every medical condition, and every patient
 - Outcomes should be measured for each medical condition over the cycle of care
 - Not for interventions or short episodes
 - Not separately for types of service (e.g. inpatient, outpatient, tests, rehabilitation)
 - Not for practices, departments, clinics, or entire hospitals
 - Results must be measured at the level at which value is created not traditional organizational units

The Outcome Measures Hierarchy



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- 6. Measure and report **outcomes** and **costs** for every provider, every medical condition, and every patient
- 7. Align reimbursement with value and reward innovation
 - **Bundled reimbursement** for cycles of care for medical conditions, not payment for discrete services or short episodes
 - Time-base bundled reimbursement for managing chronic conditions
 - Reimbursement for defined prevention, screening, wellness/health maintenance service bundles



• **Providers** and **health plans** should be proactive in driving new reimbursement models, not wait for government

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- 7. Align reimbursement with value and reward innovation
- 8. Utilize information technology to enable **restructuring of care delivery** and **measuring results**, rather than treating it as a solution itself
 - Common data definitions
 - "Structured" data vs. text
 - Interoperability standards
 - Structure for combining all types of data (e.g. notes, images) for each patient over time
 - Encompassing the full care cycle, including referring entities
 - Templates for medical conditions to enhance the user interface
 - Accessible and allow communication among all involved parties
 - Architecture allowing easy extraction of outcome measures

Value-Based Health Care Delivery

The Strategic Agenda for Providers

1. Integrated Practice Units

Including primary care

2. Outcomes and Cost Measurement

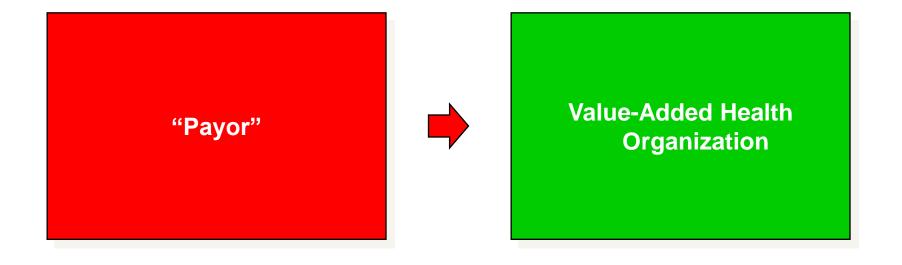
3. New Reimbursement Models

• Engage health plans but also seek direct relationships with employers/employer groups

4. Provider System Integration

- Rationalize service lines/ IPUs across facilities to improve volume, avoid duplication, and enable excellence
- Offer specific services at the appropriate facility
 - e.g. acuity level, cost level, benefits of convenience
- Clinically integrate care across facilities within an IPU structure
 - The care delivery organization should span facilities
- Formally link primary care units to specialty IPUs
- 5. Enabling Information Technology Platform
- 6. Growth Across Geography

Value-Based Healthcare Delivery: Implications for Health Plans



Value-Based Health Care Delivery: Implications for 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, wellness, screening, and disease management services
 - On site clinics
- Set new expectations for payors
 - Plans should contract for integrated care, not discrete services
 - Plans should contract for care cycles rather than single interventions
 - Plans should assist subscribers in accessing excellent providers for their medical condition
 - Plans should measure and improve member health results by condition, and expect providers to do the same
- Provide for health plan continuity for employees, rather than plan churning
- Measure and hold employee benefit staff accountable for the health value achieved by the company
- Find ways to expand insurance coverage and advocate reform of the insurance system
- Providers should forge direct relationships with employers

Value-Based Health Care Delivery: Implications for Government

Shift insurance market competition and enable universal coverage:

- Shift insurance market competition by ending discrimination based on preexisting conditions and re-pricing upon illness
- Build upon the current **employer based system**
- Create a viable insurance option for individuals and small groups through large statewide and multistate insurance pools, coupled with a reinsurance system for high cost individuals
- Establish income-based subsidies on a sliding scale for lower income individuals
- Once viable insurance options are established, mandate the purchase of health insurance for all Americans
- Give employers a choice of providing insurance or a payroll tax based on the proportion of employees requiring public assistance

Value-Based Health Care Delivery: Implications for Government

Restructure Delivery

- Establish universal and mandatory measurement and reporting of provider health outcomes
 - **Experience** reporting as an interim step
- Shift reimbursement systems to bundled payment for cycles of care instead of payments for discrete treatments or services
- Encourage **restructuring of health care delivery** around the integrated care for medical conditions
 - Eliminate obstacles such as Stark Laws, Corporate Practice of Medicine
 - Minimum volume standards as an interim step
- Create new integrated prevention, wellness, screening and health maintenance service bundles for defined patient groups
- Mandate EMR adoption that enables integrated care and supports outcome measurement
 - Software as a service model for smaller providers
 - National standards for data, communication, and aggregation
- Encourage **responsibility of individuals** for their health and health care
- Open up value-based competition for patients within and across state boundaries

How Will Redefining Health Care Begin?

- It is already happening in the U.S. and other countries
- Steps by pioneering institutions will be **mutually reinforcing**
- Once competition begins working, value improvement will no longer be discretionary
- Those organizations that **move early** will gain major benefits



• Providers can and should take the lead