#### Webinar

#### The Strategy that Will Fix Health Care

Professor Michael E. Porter and Dr. Thomas H. Lee

September 24, 2013

This presentation draws on Porter, Michael E. and Thomas H. Lee. "The Strategy that Will Fix Health Care," *Harvard Business Review*, October 2013; Porter, Michael E. with Thomas H. Lee and Erika A. Pabo. "Redesigning Primary Care: A Strategic Vision to Improve Value by Organizing Around Patients' Needs," *Health Affairs*, March 2013; Porter, Michael E. and Robert Kaplan. "How to Solve the Cost Crisis in Health Care," *Harvard Business Review*, September 2011; Porter, Michael E. "What is Value in Health Care" and supplementary papers, *New England Journal of Medicine*, December 2010; Porter, Michael E. "A Strategy for Health Care Reform—Toward a Value-Based System," *New England Journal of Medicine*, June 2009; Porter, Michael E. and Elizabeth Olmsted Teisberg. Redefining Health Care: Creating Value-Based Competition on Results. (2006) Additional information about these ideas, as well as case studies, can be found at the Institute for Strategy and Competitiveness Redefining Health Care website at http://www.hbs.edu/rhc/index.html. 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 O.Teisberg.

#### **Solving the Health Care Problem**

 The core issue in health care is the value of health care delivered

Value: Patient health outcomes per dollar spent

- Delivering high and improving value is the fundamental purpose of health care
- Value is the only goal that can unite the interests of all system participants
- Improving value is the only real solution versus cost shifting or restricting services

#### **Principles of Value-Based Health Care Delivery**

Value =

Health outcomes that matter to patients

Costs of delivering the outcomes

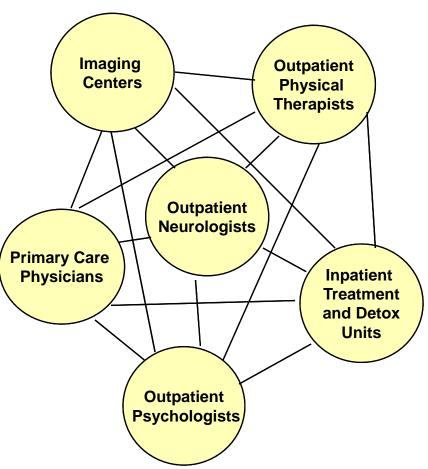
- Value is measured for the care of a patient's medical condition over the full cycle of care
  - Outcomes are the full set of health results for a patient's condition over the care cycle
  - Costs are the total costs of care for a patient's condition over the care cycle

# Creating a Value-Based Health Care Delivery System <u>The Strategic Agenda</u>

- 1. Organize Care into Integrated Practice Units (IPUs) around Patient Medical Conditions
  - Organize primary and preventive care to serve distinct patient segments
- 2. Measure Outcomes and Costs for Every Patient
- 3. Move to Bundled Payments for Care Cycles
- 4. Integrate Care Delivery Systems
- 5. Expand Geographic Reach
- 6. Build an Enabling Information Technology Platform

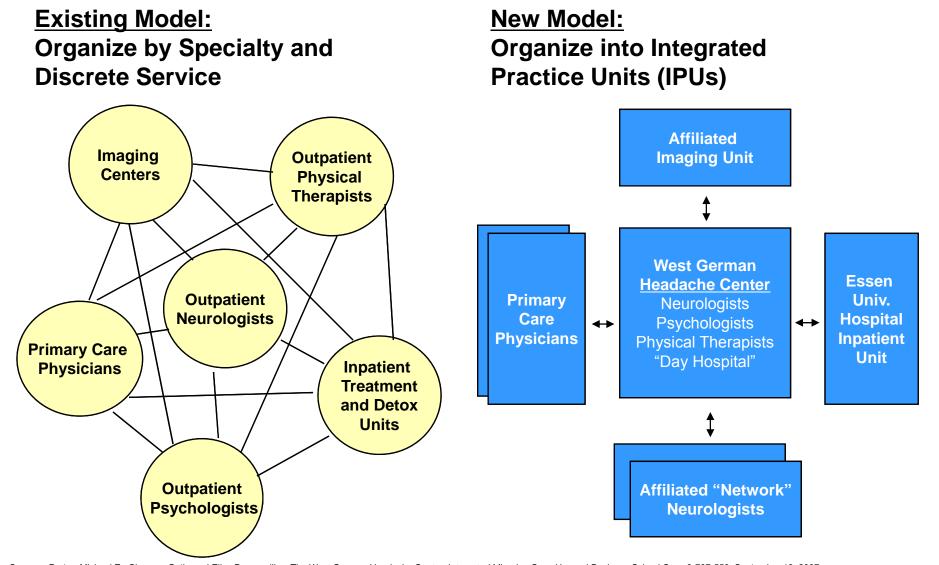
## 1. Organize Care Around Patient Medical Conditions <u>Migraine Care in Germany</u>

# **Existing Model:**Organize by Specialty and Discrete Service



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

### 1. Organize Care Around Patient Medical Conditions <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

#### 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
  - Involving multiple specialties and services
  - Including common co-occurring conditions and complications

**Examples:** diabetes, breast cancer, knee osteoarthritis

In primary / preventive care, the unit of value creation is
 defined patient segments with similar preventive,
 diagnostic, and primary treatment needs (e.g. healthy adults,
 frail elderly)

**—** 

 The medical condition / patient segment is the proper unit of value creation and value measurement in health care delivery

#### **Attributes of an Integrated Practice Unit (IPU)**

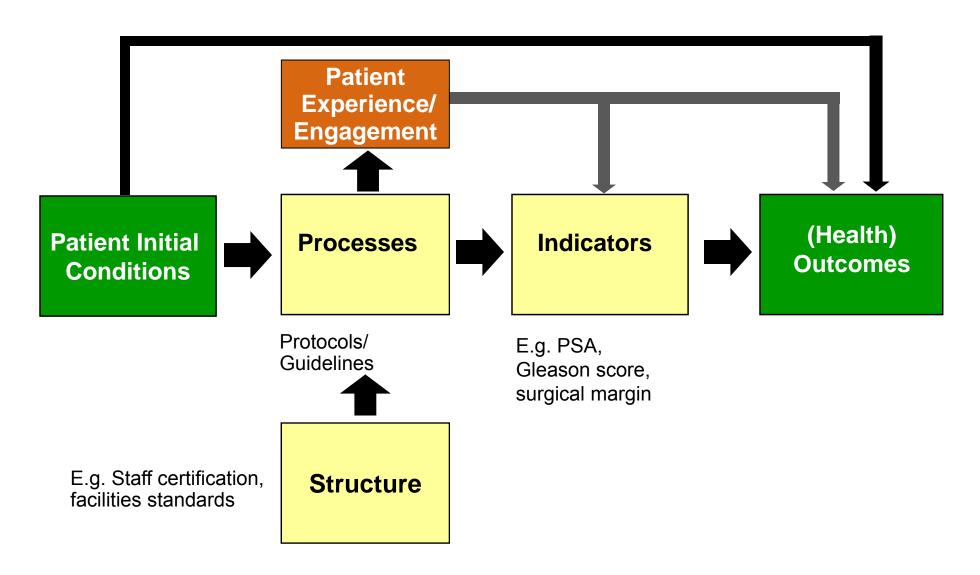
- 1. Organized around a **medical condition** or set of **closely related conditions** (or around defined patient segments for primary care)
- 2. Care is delivered by a **dedicated**, **multidisciplinary team** who devote a significant portion of their time to the medical condition
- 3. Providers see themselves as part of a common organizational unit
- 4. The team takes responsibility for the **full cycle of care** for the condition
  - Encompassing outpatient, inpatient, and rehabilitative care, as well as supporting services (such as nutrition, social work, and behavioral health)
- 5. Patient education, engagement, and follow-up are integrated into care
- 6. The unit has a single administrative and scheduling structure
- 7. To a large extent, care is co-located in dedicated facilities
- A physician team captain or a clinical care manager (or both)
   oversees each patient's care process
- 9. The **team measures** outcomes, costs, and processes for each patient using a **common measurement platform**
- 10. The providers on the team meet **formally and informally** on a regular basis to discuss patients, processes, and results
- 11. Joint accountability is accepted for outcomes and costs

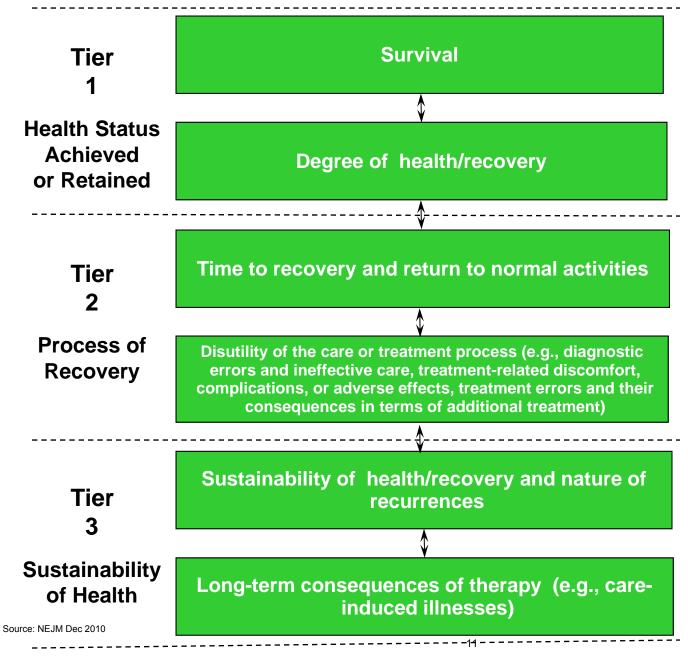
#### The Role of Volume in Value Creation Fragmentation of Hospital Services in Sweden

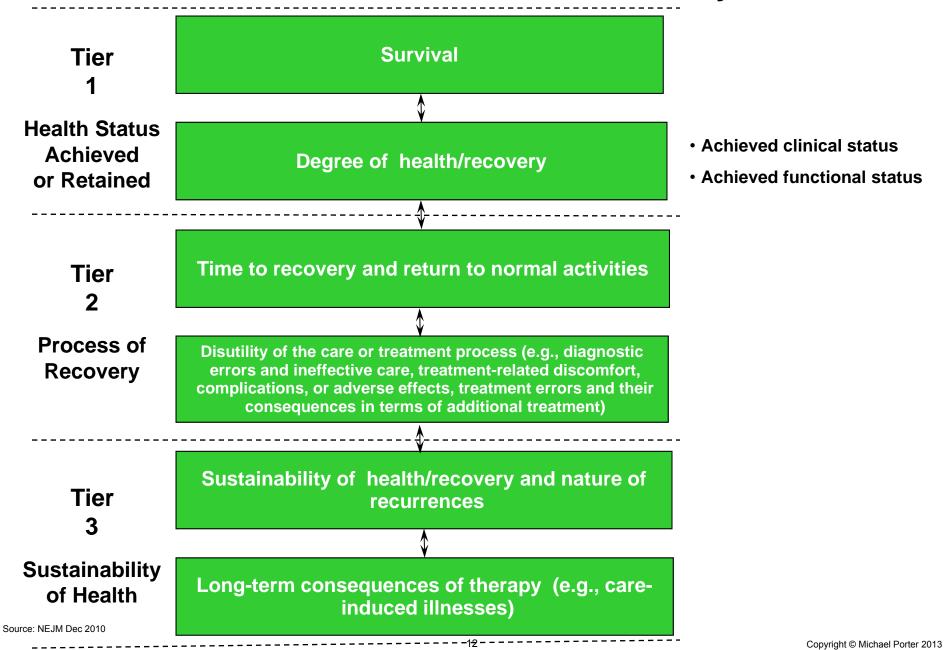
DRG	Number of admitting providers	Average percent of total national admissions	Average admissions/ provider/ year	Average admissions/ provider/ week
Knee procedure	68	1.5%	55	1
Diabetes age > 35	80	1.3%	96	2
Kidney failure	80	1.3%	97	2
Multiple sclerosis and cerebellar ataxia	78	1.3%	28	1
Inflammatory 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

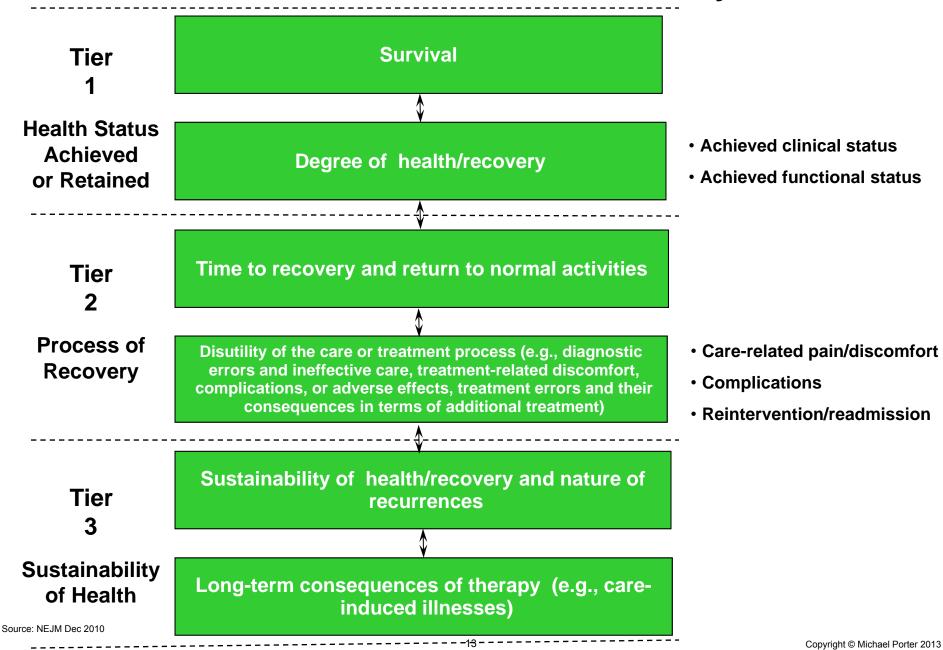
Source: Compiled from The National Board of Health and Welfare Statistical Databases - DRG Statistics, Accessed April 2, 2009.

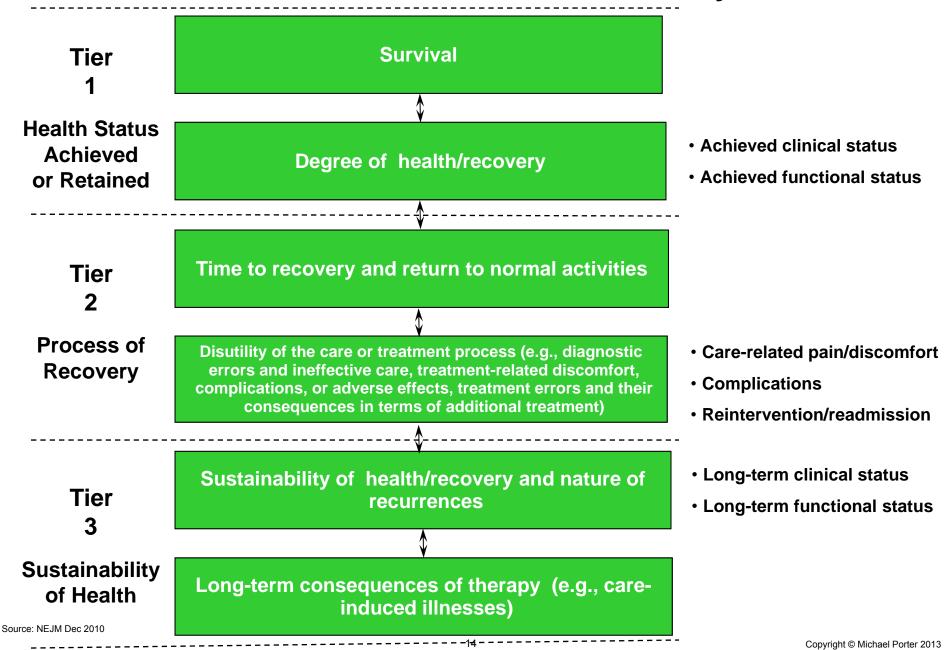
### 2. Measure Outcomes and Costs for Every Patient The Measurement Landscape



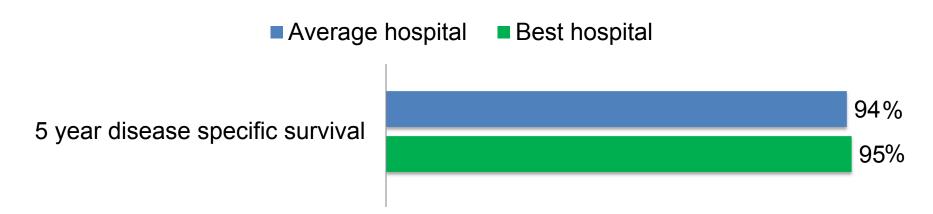




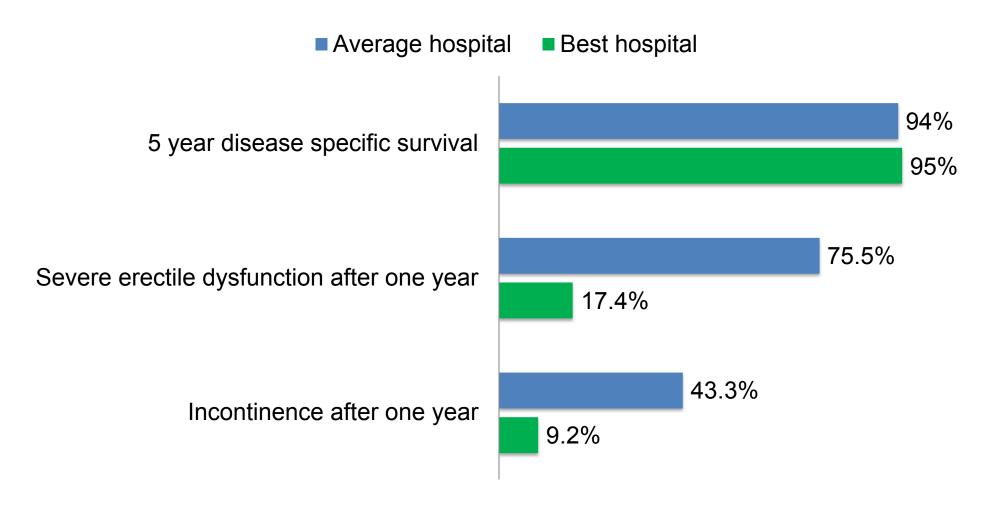




### Measuring Multiple Outcomes <a href="https://example.com/Prostate-Cancer-Care">Prostate Cancer Care in Germany</a>

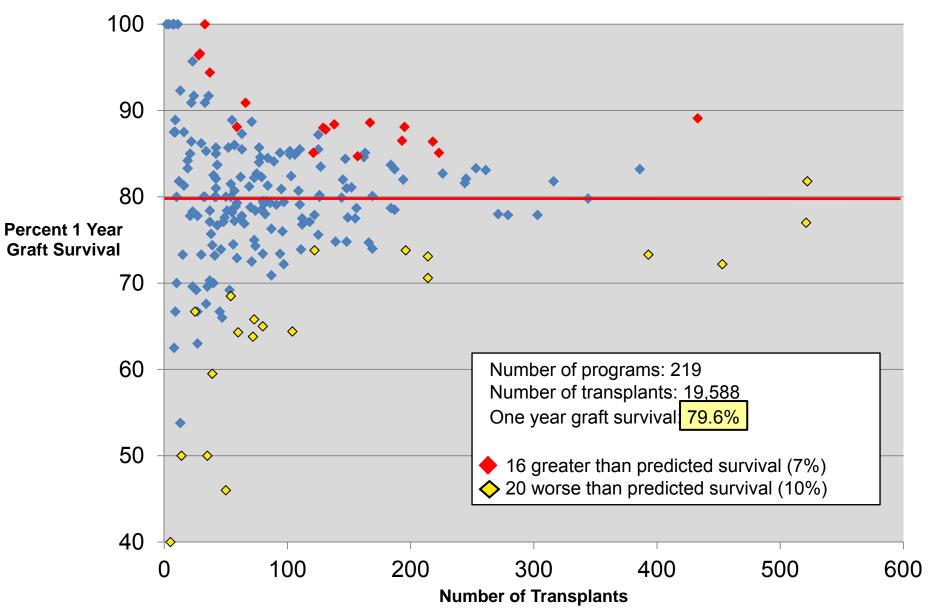


#### Measuring Multiple Outcomes -- Continued <u>Prostate Cancer Care in Germany</u>



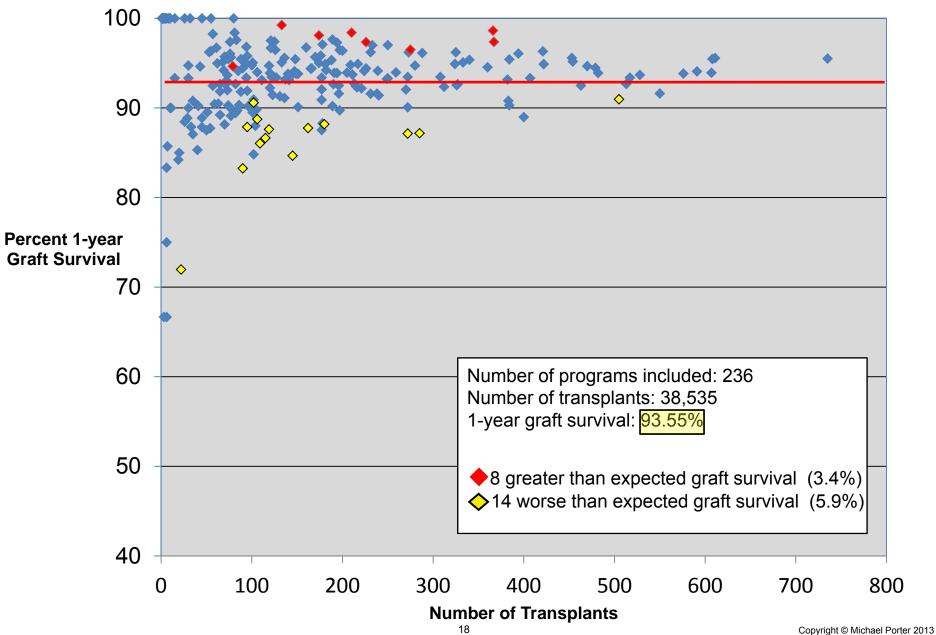
#### **Adult Kidney Transplant Outcomes**

**U.S. Centers**, 1987-1989



#### **Adult Kidney Transplant Outcomes**

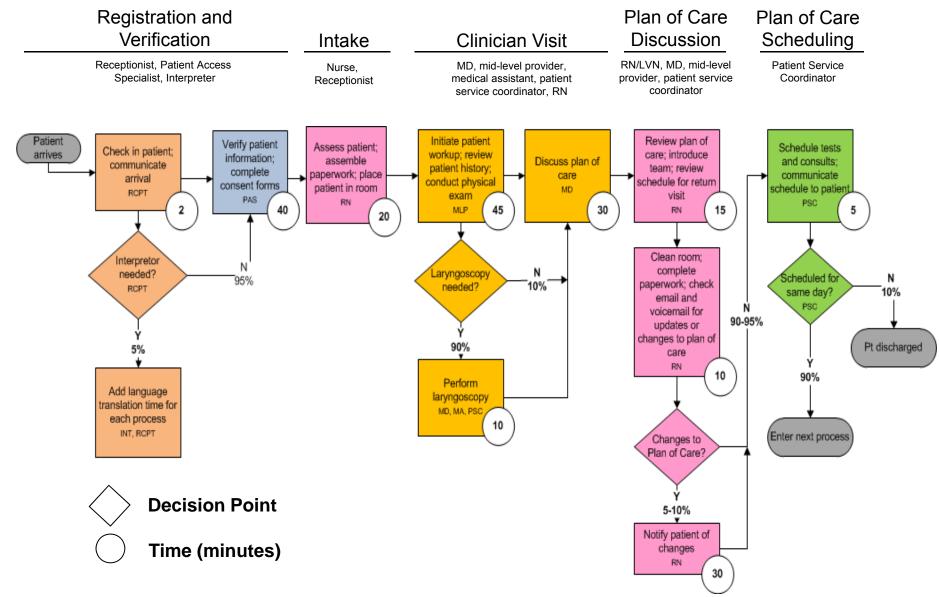
**U.S. Center Results, 2008-2010** 



#### Measuring the Cost of Care Delivery: Principles

- Cost is the actual expense of patient care, not the charges billed or collected
- Cost should be measured around the patient, not just the department
- Cost should be aggregated over the full cycle of care for the patient's medical condition
- Cost depends on the actual use of resources involved in a patient's care process (personnel, facilities, supplies)
  - The time devoted to each patient by these resources
  - The capacity cost of each resource
  - The support costs required for each patient-facing resource

### Mapping Resource Utilization MD Anderson Cancer Center – New Patient Visit



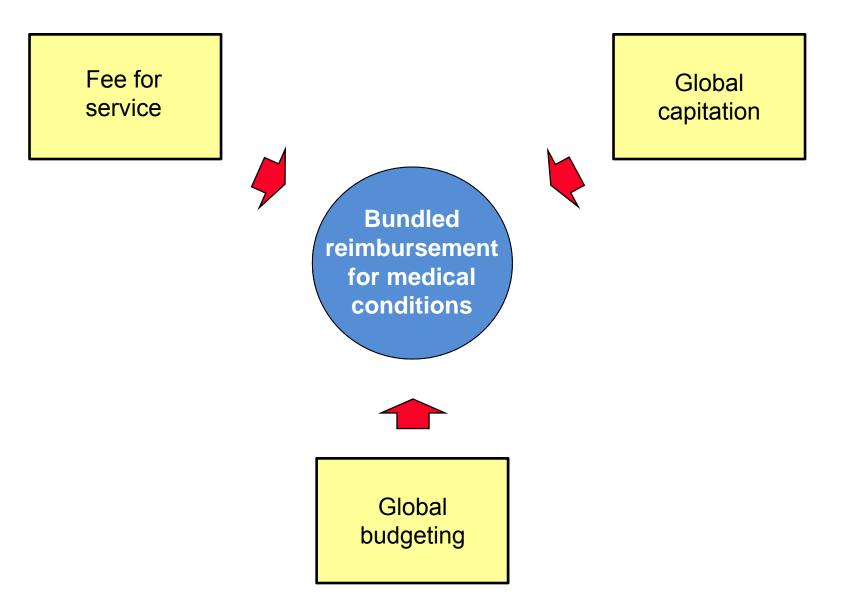
#### **Major Cost Reduction Opportunities in Health Care**

- Reduce process variation that lowers efficiency and raises inventory without improving outcomes
- Eliminate low- or non-value added services or tests
  - Sometimes driven by protocols or to justify billing
- Rationalize redundant administrative and scheduling units
- Improve utilization of expensive physicians, staff, clinical space, inventory, and equipment by reducing duplication and service fragmentation
- Minimize use of physician and skilled staff time for less skilled activities
- Reduce the provision of routine or uncomplicated services in highlyresourced facilities
- Reduce cycle times across the care cycle
- Optimize total care cycle cost versus minimizing cost of individual service
- Increase cost awareness in clinical teams



Many cost reduction opportunities will actually improve outcomes

#### 3. Reimburse through Bundled Prices for Care Cycles



## Bundled Payment in Practice <u>Hip and Knee Replacement in Stockholm, Sweden</u>

- Components of the bundle
  - Pre-op evaluation
  - Lab tests
  - Radiology
  - Surgery & related admissions
  - Prosthesis
  - Drugs
  - Inpatient rehab, up to 6 days

- All physician and staff fees and costs
- 1 follow-up visit within 3 months
- Any additional surgery to the joint within 2 years
- If post-op infection requiring antibiotics occurs, guarantee extends to 5 years
- Currently applies to all relatively healthy patients (i.e. ASA scores of 1 or 2)
- The same referral process from PCPs is utilized as the traditional system
- Mandatory reporting by providers to the joint registry plus supplementary reporting
- Applies to all qualifying patients. Provider participation is voluntary, but all providers are continuing to offer total joint replacements

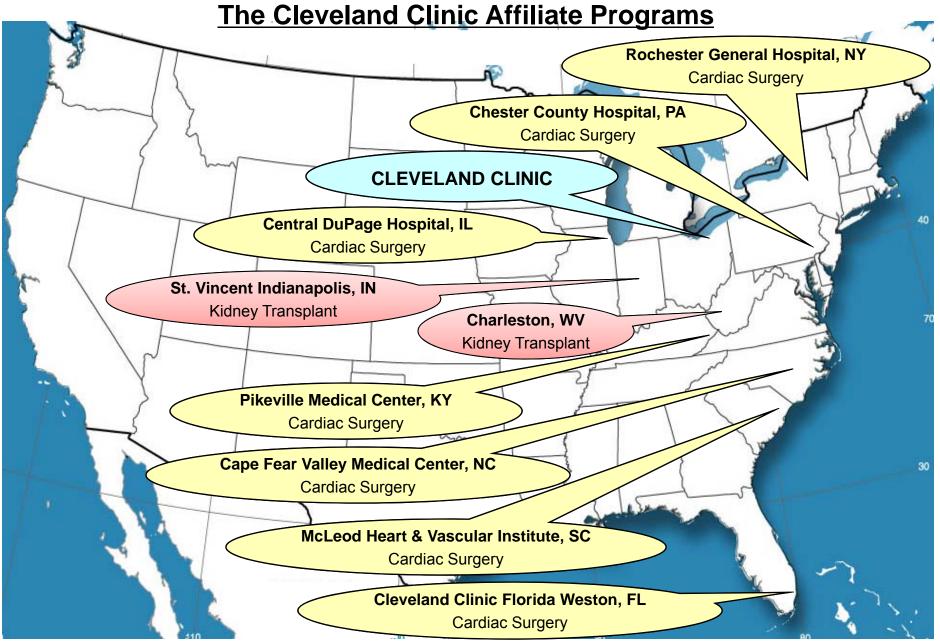


 The Stockholm bundled price for a knee or hip replacement is about US \$8,000

### 4. Integrate Care Delivery Systems Four Levels of Provider System Integration

- 1. **Define overall scope of services** where the provider can achieve high value
- 2. Concentrate volume in fewer locations in the conditions that providers treat
- 3. Choose the **right location** for each service based on medical condition, acuity level, resource intensity, cost level and need for convenience
  - E.g., shift routine surgeries out of tertiary hospitals to smaller, more specialized facilities
- 4. Integrate care across locations

#### 5. Expand Geographic Reach

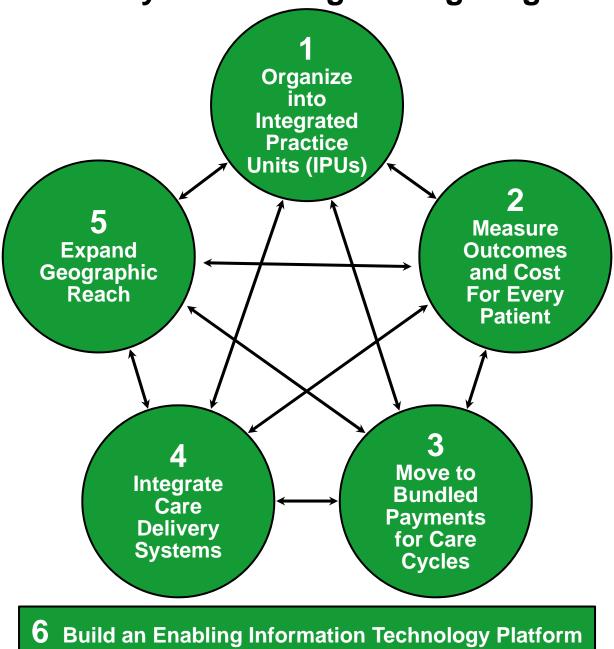


#### 6. Build an Enabling Information Technology Platform

Utilize information technology to enable restructuring of care delivery and measuring results, rather than treating it as a solution itself

- Common data definitions
- Combine all types of data (e.g. notes, images) for each patient
- Data encompasses the full care cycle, including care by referring entities
- Allow access and communication among all involved parties, including with patients
- Templates for medical conditions to enhance the user interface
- "Structured" data vs. free text
- Architecture that allows easy extraction of outcome measures, process measures, and activity-based cost measures for each patient and medical condition
- Interoperability standards enabling communication among different provider (and payor) organizations

#### A Mutually Reinforcing Strategic Agenda



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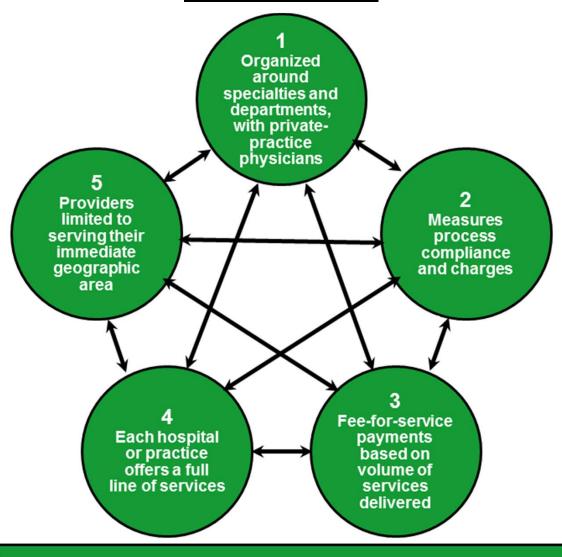
Why Is This So Hard? (And What Do We Do About It?)

#### "Magic Bullets" Have Had Limited Impact

#### Examples:

- Evidence-based medicine/clinical effectiveness research/guidelines
- Eliminating fraud
- Eliminating errors
- Adding layers (care coordination, prior authorization)
- Turning patients into consumers
- Electronic health records
- New low cost models of primary care
- Capitation

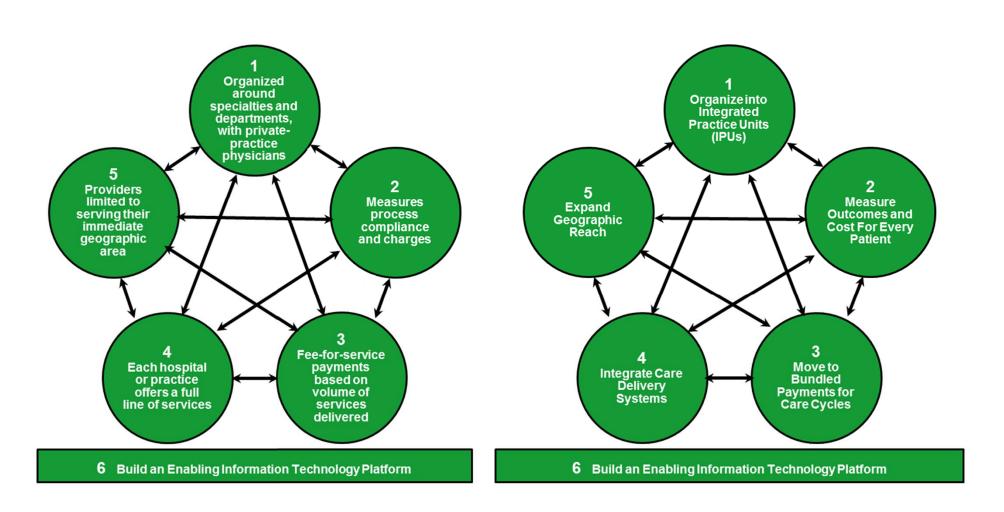
#### Why We Are Stuck Legacy System



#### **Getting Unstuck**

**Legacy System** 

A Mutually Reinforcing Strategic Agenda



#### This Won't Be Easy ...

#### **Common Reactions**

- "How can we create real teams if our physicians are not our employees?"
  - "... or even if they are employees, but are paid by RVU?"
- "We can't ask anyone to stop doing anything as long as we all have our own bottom lines."

#### ... But We Have to Get Going

#### Common Reactions

- "How can we create real teams if our physicians are not our employees?"
  - "... or even if they are employees, but are paid by RVU?"
- "We can't ask anyone to stop doing anything as long as we all have our own bottom lines."

#### First Steps

- Measure what matters to patients – benchmark and report
- Use narrative (patient stories) to create organizational shared purpose
  - Create financial and nonfinancial incentives for improvement of value