

# Redefining Health Care in Latin America

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This presentation draws on *The Strategy That Will Fix Health Care*, by Michael E. Porter and Thomas H. Lee published in Harvard Business Review October 2013; *Redefining German Health Care* (with Clemens Guth), Springer Press, February 2012; *Redefining Health Care: Creating Value-Based Competition on Results* (with Elizabeth O. Teisberg), Harvard Business School Press, May 2006; “A Strategy for Health Care Reform—Toward a Value-Based System,” *New England Journal of Medicine*, June 3, 2009; “Value-Based Health Care Delivery,” *Annals of Surgery* 248: 4, October 2008; “Defining and Introducing Value in Healthcare,” *Institute of Medicine Annual Meeting*, 2007. Additional information about these ideas, as well as case studies, can be found the Institute for Strategy & 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, Elizabeth O. Teisberg, and Clemens Guth.

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# Creating A High Value Delivery Organization

- 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

# Creating a Value-Based Health Care System

- Significant improvement in value will require **fundamental restructuring of health care delivery**, not incremental improvements
- Today's delivery approaches reflect **legacy**, medical science, organizational structures, management practices, and payment models that are obsolete.

Care pathways, process improvements, safety initiatives, **care coordinators**, disease management and other **overlays** to the current structure are beneficial, but not sufficient

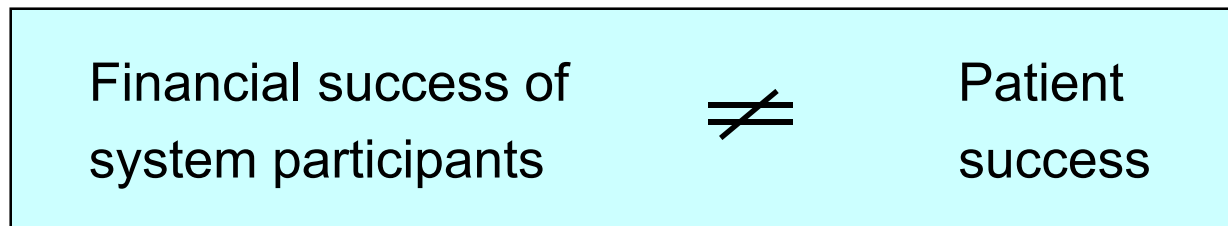
# Principles of Value-Based Health Care Delivery

$$\text{Value} = \frac{\text{Health outcomes that matter to patients}}{\text{Costs of delivering the outcomes}}$$

- 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 The Right Kind of Competition

- Patient **choice** and **competition** for patients are powerful forces to encourage continuous improvement in value and restructuring of care
- Today's competition in health care **is not aligned with value**



- Creating positive-sum competition on **value for patients** is fundamental to health care reform in every country

# “Magic Bullets” Have Had Limited Impact

- Evidence-based medicine/clinical effectiveness research/guidelines
  - Fail to represent many **individual patient circumstances**
- Eliminating fraud and self dealing
  - Does not address **root causes** of low-value health care
- Eliminating errors
  - Reducing errors **does not itself lead to a redesign** of overall care that improves value
- Global capitation to control spending
  - Reduces spending, but **does not improve value**
- Turning patients into consumers
  - **Information** about price and outcomes is lacking
- Electronic medical records
  - IT alone, **without reorganizing care**, has little impact on value
- Care Coordinators
  - **Layered onto the existing structure** will have limited impact
- New low cost models of primary care
  - **Limited effect** on the great **majority of healthcare costs**

# Creating a Value-Based Health Care Delivery System

## The Strategic Agenda

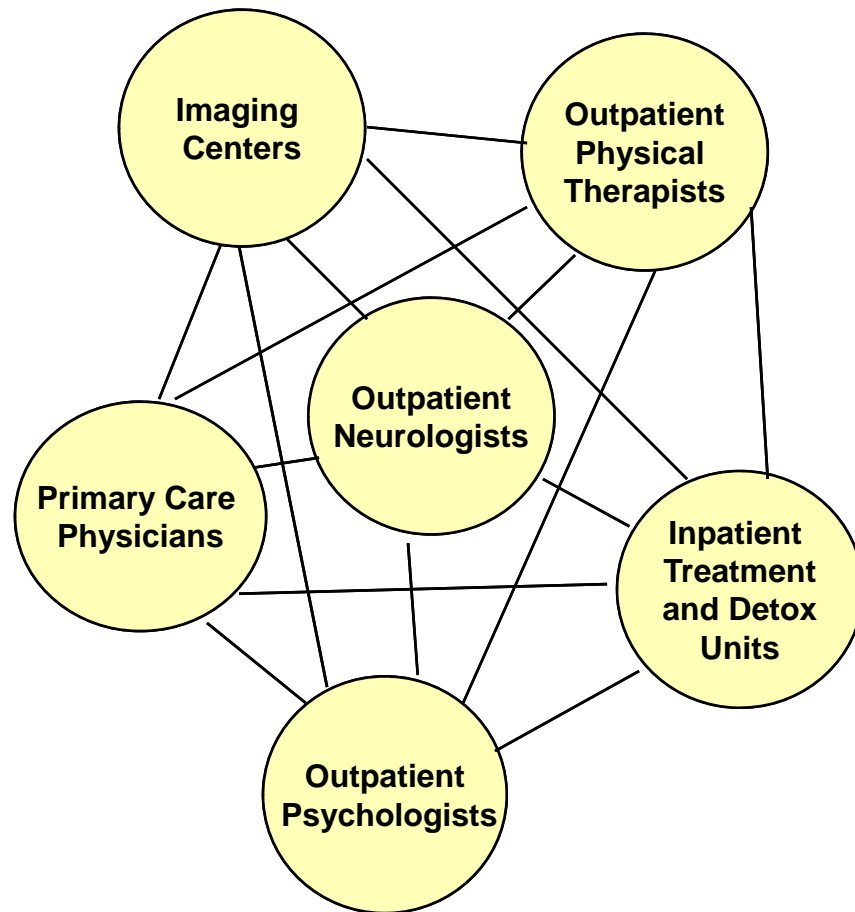
1. Organize Care into **Integrated Practice Units (IPUs)** around Patient Medical Conditions
  - Organize primary and preventive care to serve **distinct patient segments**
2. Measure **Outcomes** and **Costs** for Every Patient
3. Move to **Bundled Payments** for Care Cycles
4. Integrate Care Delivery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

# 1. Organize Care Around Patient Medical Conditions

## Migraine Care in Germany

### Existing Model:

Organize by Specialty and Discrete Service



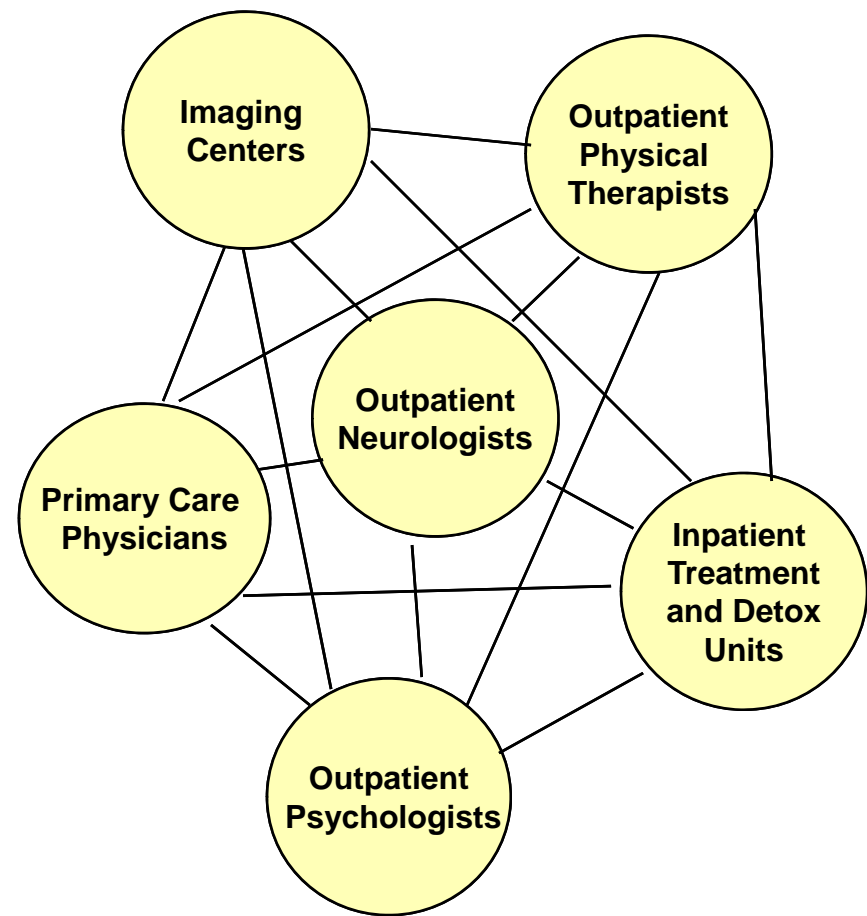
Source: Porter, Michael E., Clemens Guth, and Elisa Dannemiller, *The West German Headache Center: Integrated Migraine Care*, Harvard Business School Case 9-707-559, September 13, 2007



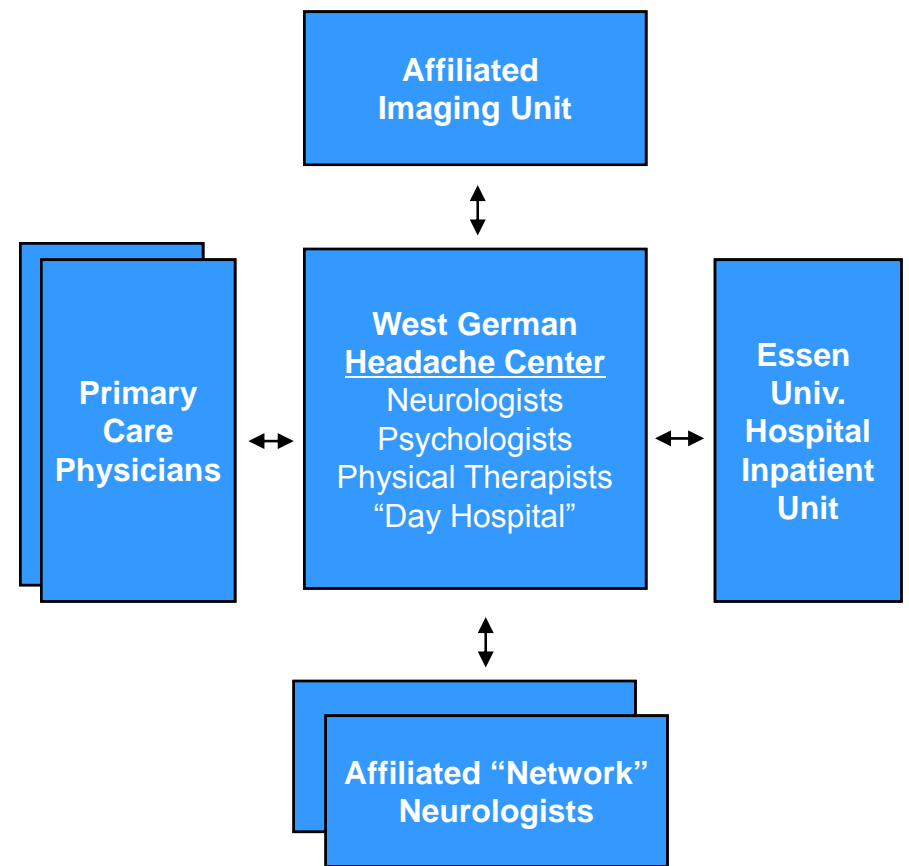
# 1. Organize Care Around Patient Medical Conditions

## Migraine Care in Germany

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



**New Model:**  
**Organize into Integrated Practice Units (IPUs)**



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

# The Care Delivery Value Chain

## Acute Knee-Osteoarthritis Requiring Replacement

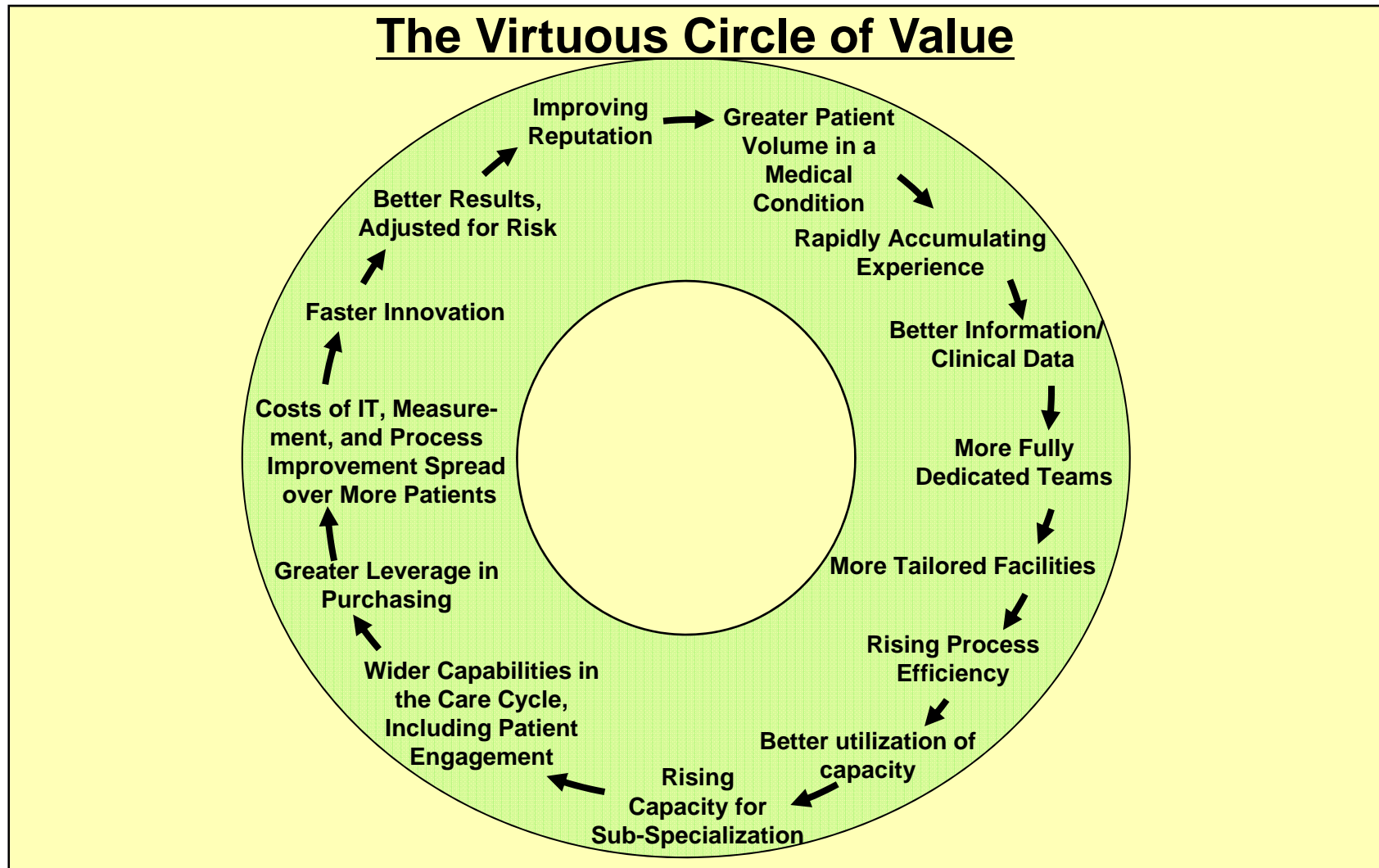
|                               |   |  |   |   |   |   |
|-------------------------------|---|--|---|---|---|---|
| <b>INFORMING AND ENGAGING</b> | <ul style="list-style-type: none"> <li>Importance of exercise, weight reduction, proper nutrition</li> </ul>  | <ul style="list-style-type: none"> <li>Meaning of diagnosis</li> <li>Prognosis (short- and long-term outcomes)</li> <li>Drawbacks and benefits of surgery</li> </ul>   | <ul style="list-style-type: none"> <li>Setting expectations</li> <li>Importance of nutrition, weight loss, vaccinations</li> <li>Home preparation</li> </ul>  | <ul style="list-style-type: none"> <li>Expectations for recovery</li> <li>Importance of rehab</li> <li>Post-surgery risk factors</li> </ul>   | <ul style="list-style-type: none"> <li>Importance of rehab adherence</li> <li>Longitudinal care plan</li> </ul>   | <ul style="list-style-type: none"> <li>Importance of exercise, maintaining healthy weight</li> </ul>  |
|                               | <ul style="list-style-type: none"> <li>Joint-specific symptoms and function (e.g., WOMAC scale)</li> <li>Overall health (e.g., SF-12 scale)</li> </ul>  | <ul style="list-style-type: none"> <li>Loss of cartilage</li> <li>Change in subchondral bone</li> <li>Joint-specific symptoms and function</li> <li>Overall health</li> </ul>  | <ul style="list-style-type: none"> <li>Baseline health status</li> <li>Fitness for surgery (e.g., ASA score)</li> </ul>   | <ul style="list-style-type: none"> <li>Blood loss</li> <li>Operative time</li> <li>Complications</li> </ul>   | <ul style="list-style-type: none"> <li>Infections</li> <li>Joint-specific symptoms and function</li> <li>Inpatient length of stay</li> <li>Ability to return to normal activities</li> </ul>  | <ul style="list-style-type: none"> <li>Joint-specific symptoms and function</li> <li>Weight gain or loss</li> <li>Missed work</li> <li>Overall health</li> </ul>  |
| <b>MEASURING</b>              | <ul style="list-style-type: none"> <li>PCP office</li> <li>Health club</li> <li>Physical therapy clinic</li> </ul>  | <ul style="list-style-type: none"> <li>Specialty office</li> <li>Imaging facility</li> </ul>   | <ul style="list-style-type: none"> <li>Specialty office</li> <li>Pre-op evaluation center</li> </ul>  | <ul style="list-style-type: none"> <li>Operating room</li> <li>Recovery room</li> <li>Orthopedic floor at hospital or specialty surgery center</li> </ul>   | <ul style="list-style-type: none"> <li>Nursing facility</li> <li>Rehab facility</li> <li>PT clinic</li> <li>Home</li> </ul>   | <ul style="list-style-type: none"> <li>Specialty office</li> <li>Primary care office</li> <li>Health club</li> </ul>  |
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| <b>CARE DELIVERY</b>          | <p><b>MONITORING/PREVENTING</b></p> <p><b>MONITOR</b></p> <ul style="list-style-type: none"> <li>Conduct PCP exam</li> <li>Refer to specialists, if necessary</li> </ul> <p><b>PREVENT</b></p> <ul style="list-style-type: none"> <li>Prescribe anti-inflammatory medicines</li> <li>Recommend exercise regimen</li> <li>Set weight loss targets</li> </ul> | <p><b>DIAGNOSING</b></p> <p><b>IMAGING</b></p> <ul style="list-style-type: none"> <li>Perform and evaluate MRI and x-ray</li> <li>-Assess cartilage loss</li> <li>-Assess bone alterations</li> </ul> <p><b>CLINICAL EVALUATION</b></p> <ul style="list-style-type: none"> <li>Review history and imaging</li> <li>Perform physical exam</li> <li>Recommend treatment plan (surgery or other options)</li> </ul> | <p><b>PREPARING</b></p> <p><b>OVERALL PREP</b></p> <ul style="list-style-type: none"> <li>Conduct home assessment</li> <li>Monitor weight loss</li> </ul> <p><b>SURGICAL PREP</b></p> <ul style="list-style-type: none"> <li>Perform cardiology, pulmonary evaluations</li> <li>Run blood labs</li> <li>Conduct pre-op physical exam</li> </ul> | <p><b>INTERVENING</b></p> <p><b>ANESTHESIA</b></p> <ul style="list-style-type: none"> <li>Administer anesthesia (general, epidural, or regional)</li> </ul> <p><b>SURGICAL PROCEDURE</b></p> <ul style="list-style-type: none"> <li>Determine approach (e.g., minimally invasive)</li> <li>Insert device</li> <li>Cement joint</li> </ul> <p><b>PAIN MANAGEMENT</b></p> <ul style="list-style-type: none"> <li>Prescribe preemptive multimodal pain meds</li> </ul> | <p><b>RECOVERING/REHABBING</b></p> <p><b>SURGICAL</b></p> <ul style="list-style-type: none"> <li>Immediate return to OR for manipulation, if necessary</li> </ul> <p><b>MEDICAL</b></p> <ul style="list-style-type: none"> <li>Monitor coagulation</li> </ul> <p><b>LIVING</b></p> <ul style="list-style-type: none"> <li>Provide daily living support (showering, dressing)</li> <li>Track risk indicators (fever, swelling, other)</li> </ul> <p><b>PHYSICAL THERAPY</b></p> <ul style="list-style-type: none"> <li>Daily or twice daily PT sessions</li> </ul> | <p><b>MONITORING/MANAGING</b></p> <p><b>MONITOR</b></p> <ul style="list-style-type: none"> <li>Consult regularly with patient</li> </ul> <p><b>MANAGE</b></p> <ul style="list-style-type: none"> <li>Prescribe prophylactic antibiotics when needed</li> <li>Set long-term exercise plan</li> <li>Revise joint, if necessary</li> </ul> |
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Orthopedic Specialist  
 Other Provider Entities

# 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**
8. 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

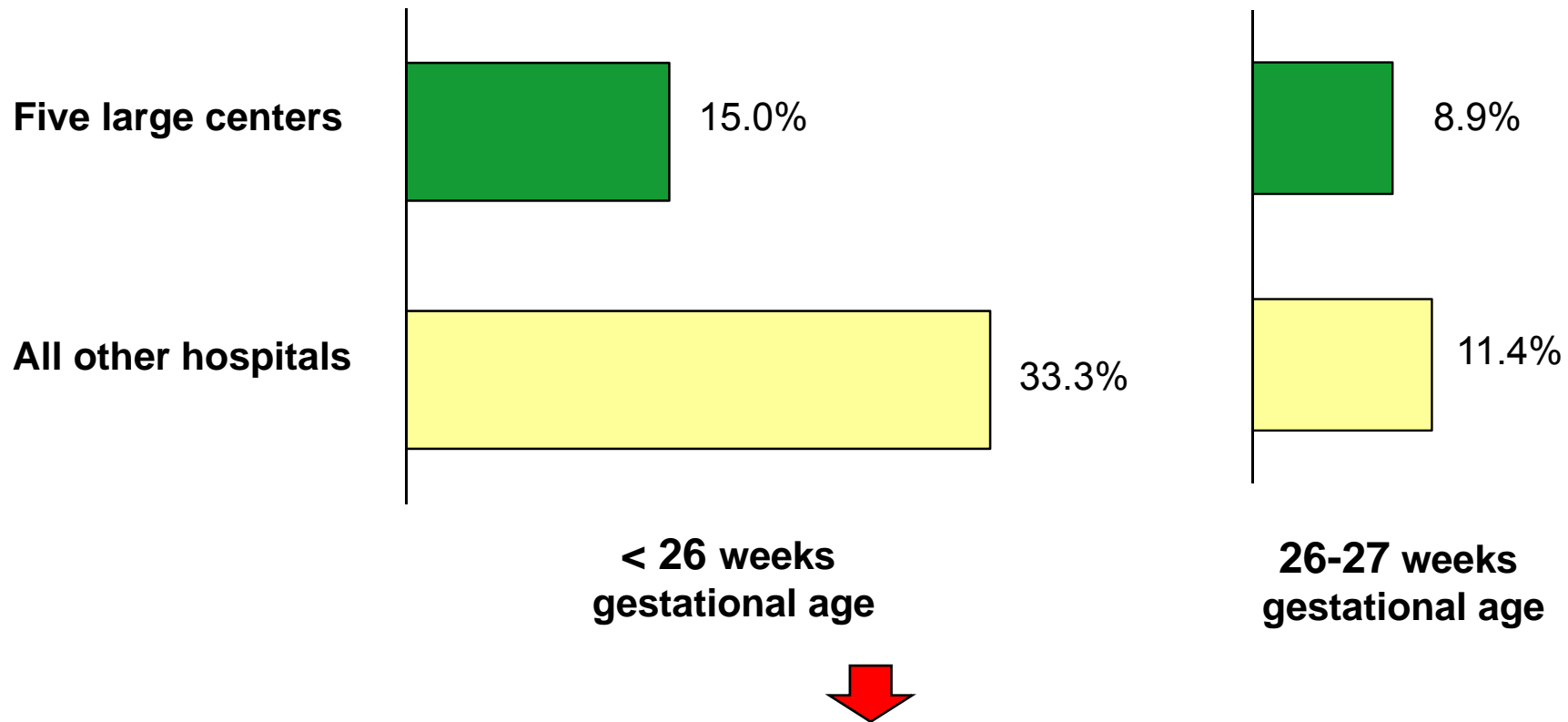
# Volume in a Medical Condition Enables Value



- Volume and experience will have an even greater impact on value **in an IPU structure** than in the current system

# Low Volume Undermines Value

## Mortality of Low-birth Weight Infants in Baden-Württemberg, Germany



- **Minimum volume standards** are an interim step to drive value and service consolidation in the absence of rigorous outcome information

## **Role of Volume in Value Creation**

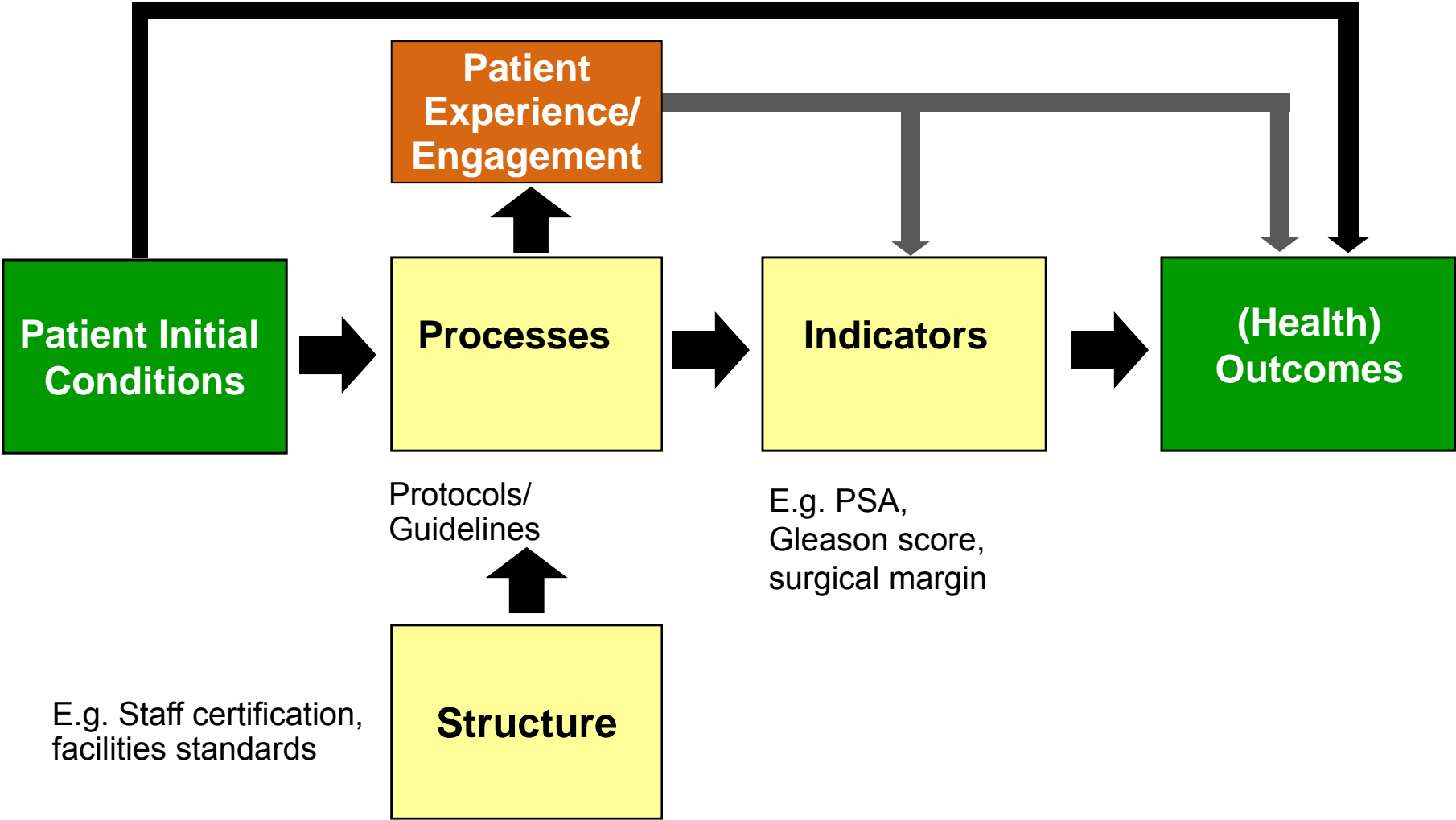
### **Fragmentation of Hospital Services in Sweden**

| <b>DRG</b>                               | <b>Number of admitting providers</b> | <b>Average percent of total national admissions</b> | <b>Average admissions/ provider/ year</b> | <b>Average admissions/ provider/ week</b> |
|--|--------------------------------------|---|---|---|
| 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.

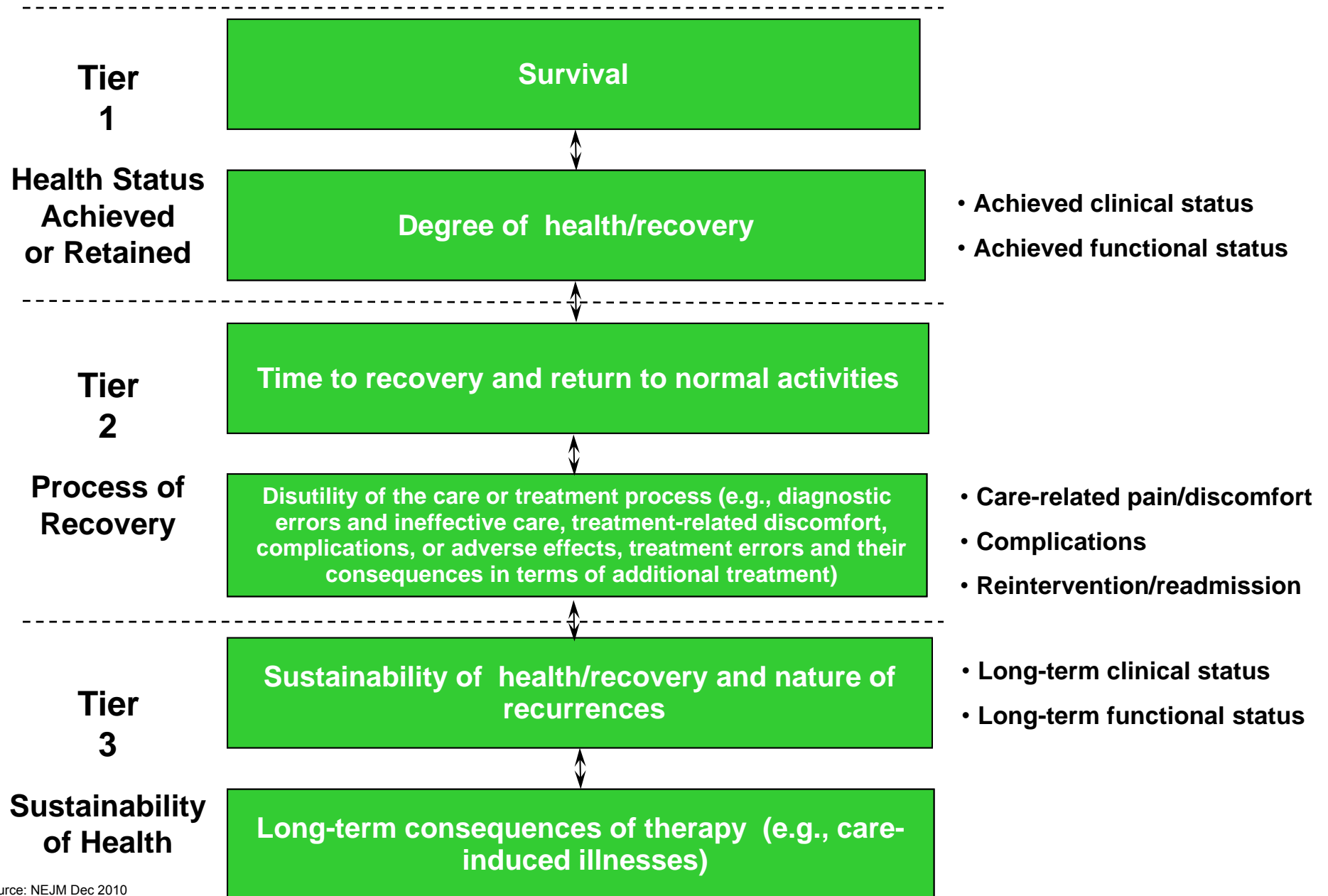
## 2. Measure Outcomes and Costs for Every Patient

### The Measurement Landscape





# The Outcome Measures Hierarchy



# Measuring Multiple Outcomes

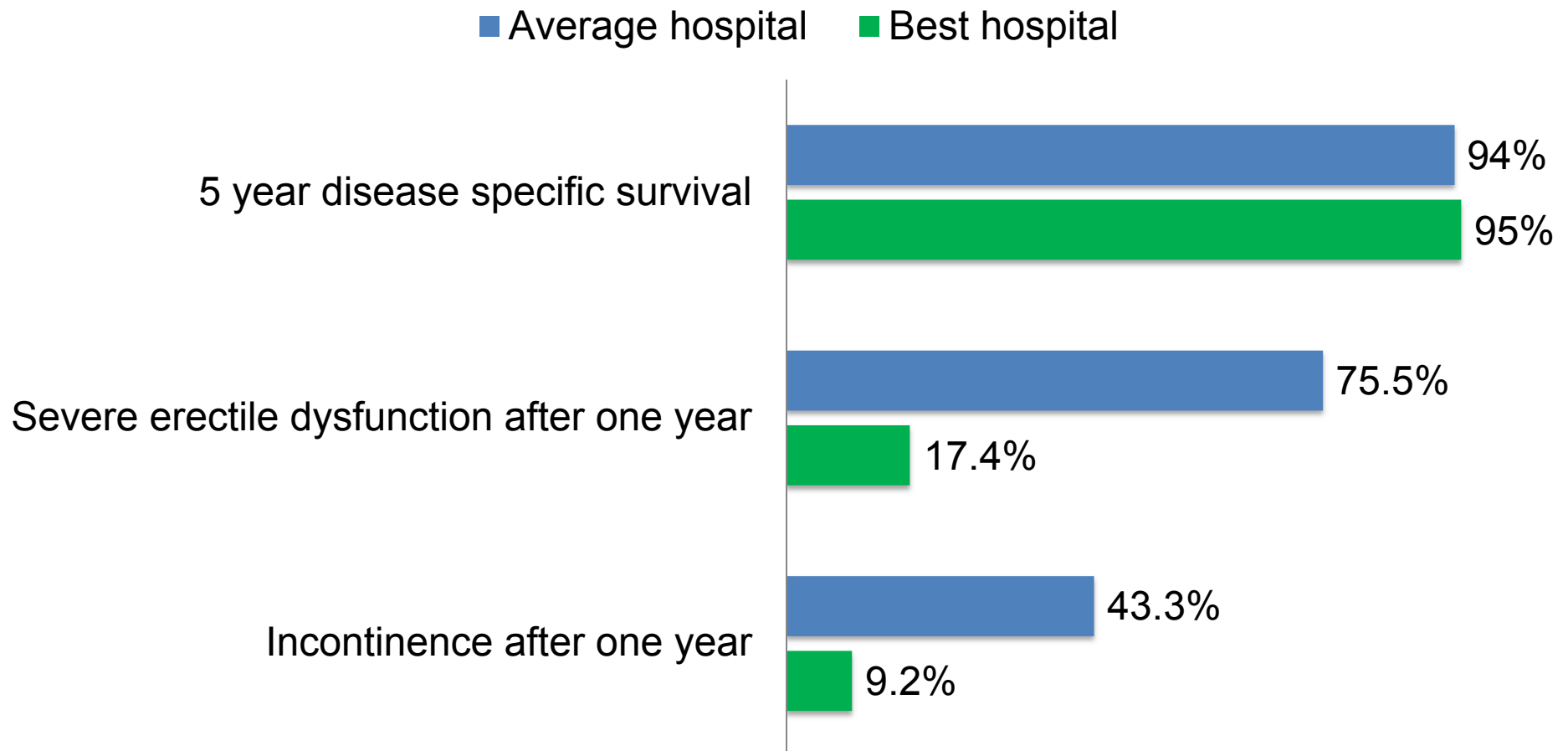
## Prostate Cancer Care in Germany

■ Average hospital    ■ Best hospital



Source: ICHOM

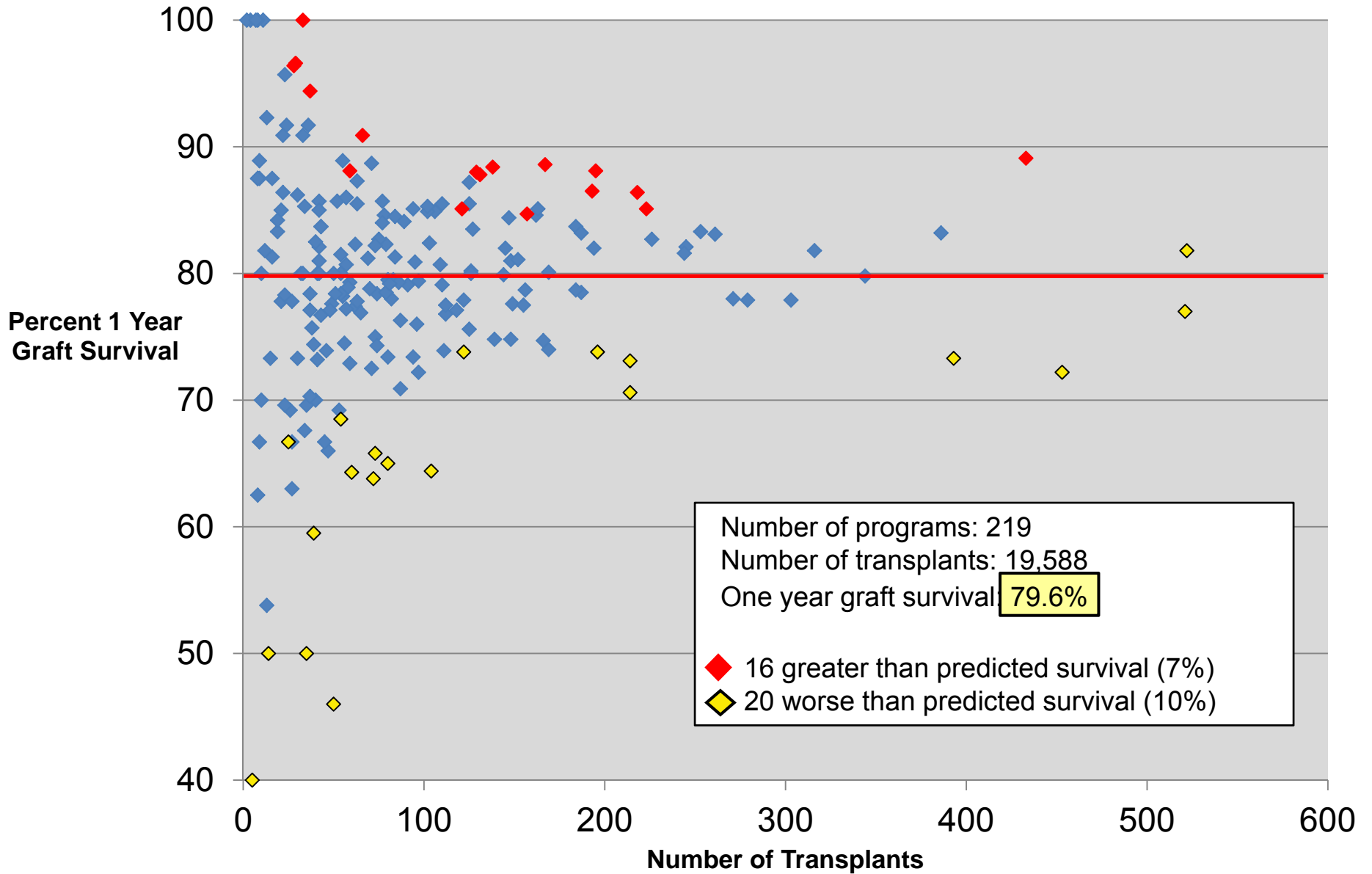
## Measuring Multiple Outcomes -- Continued Prostate Cancer Care in Germany



Source: ICHOM

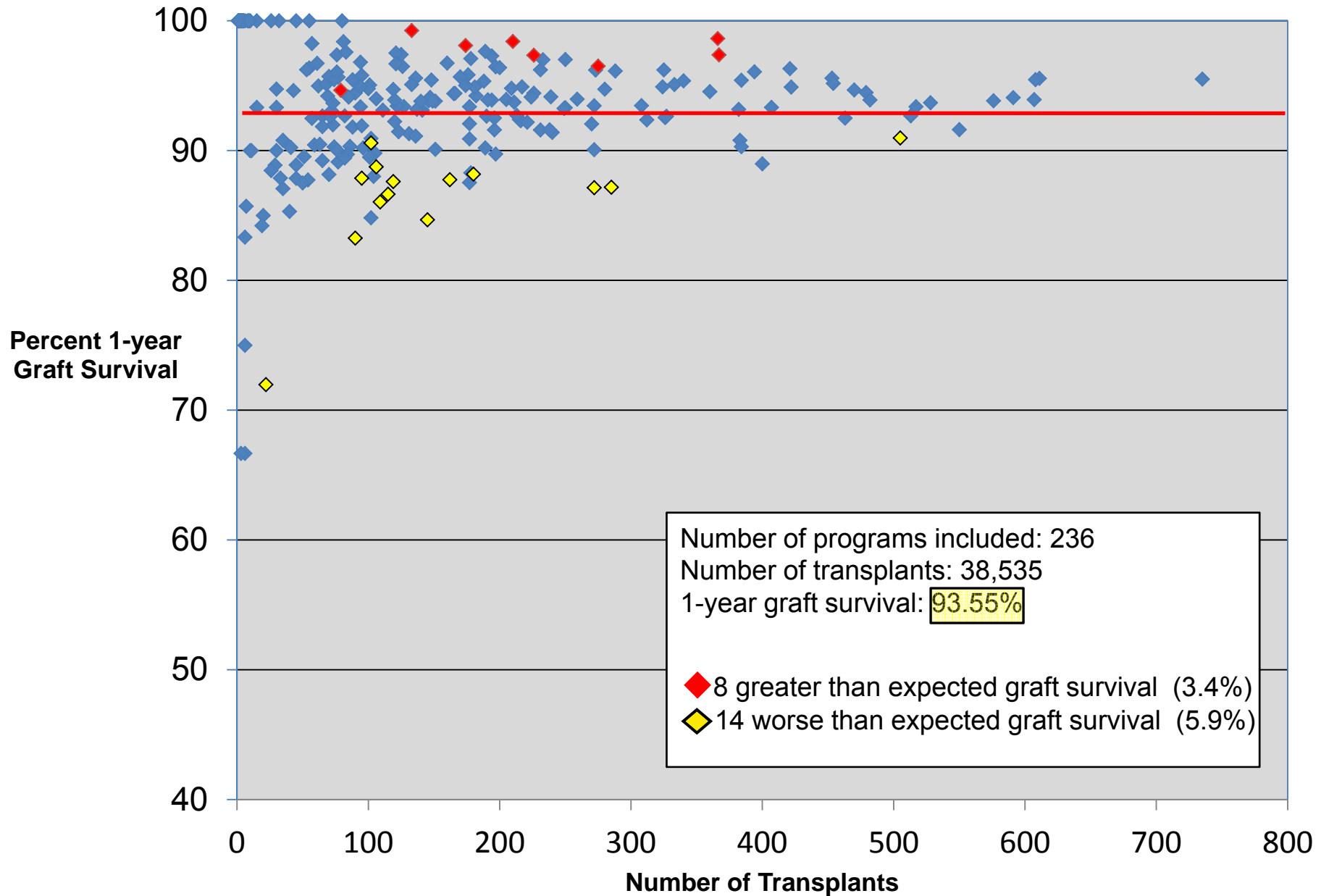
# Adult Kidney Transplant Outcomes

## U.S. Centers, 1987-1989



# Adult Kidney Transplant Outcomes

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



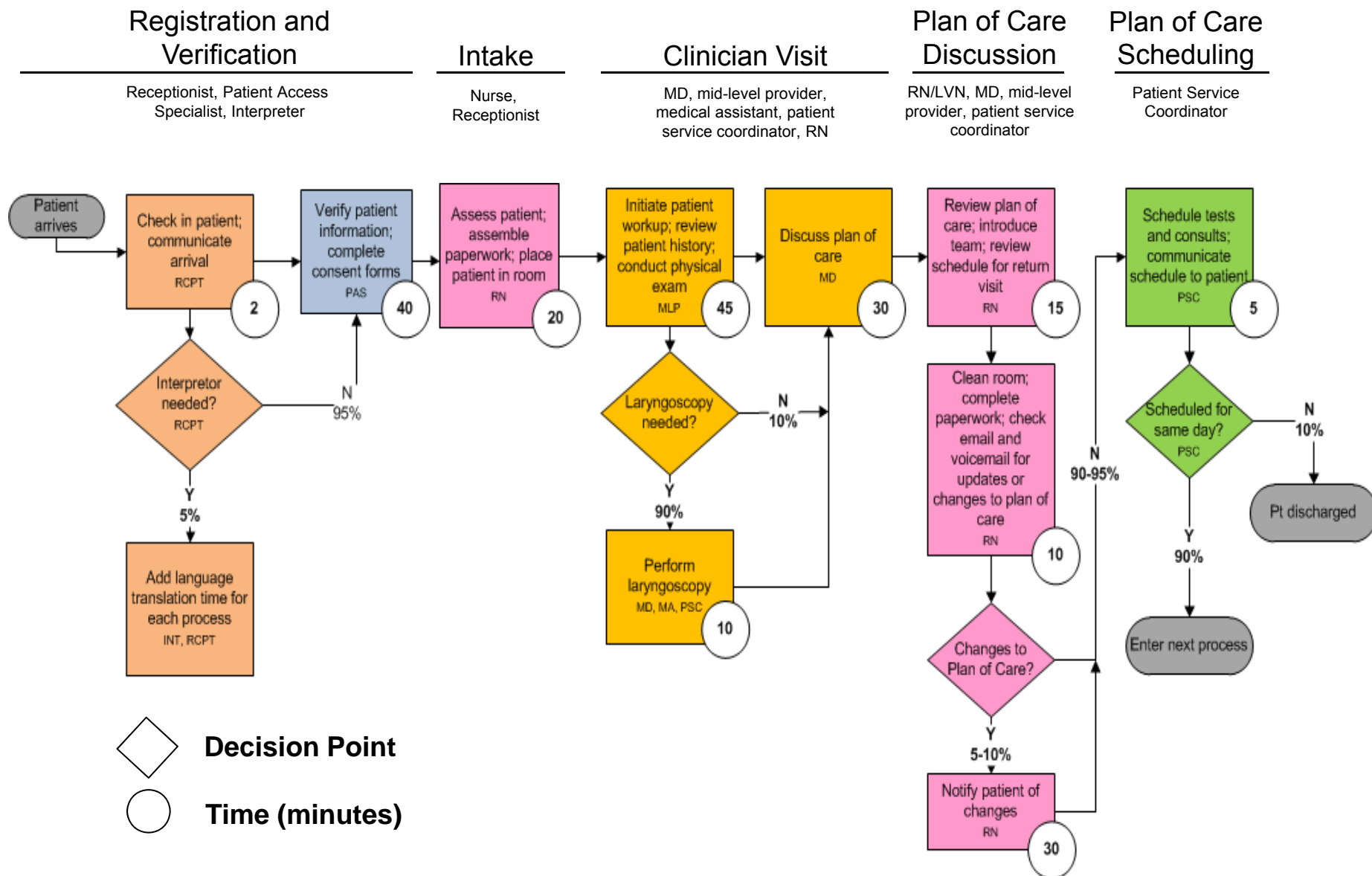
# Measuring the Cost of Care Delivery: Principles

- 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


Source: Kaplan, Robert and Michael E. Porter, "The Big Idea: How to Solve the Cost Crisis in Health Care", *Harvard Business Review*, September 1, 2011

# Mapping Resource Utilization

## MD Anderson Cancer Center – New Patient Visit

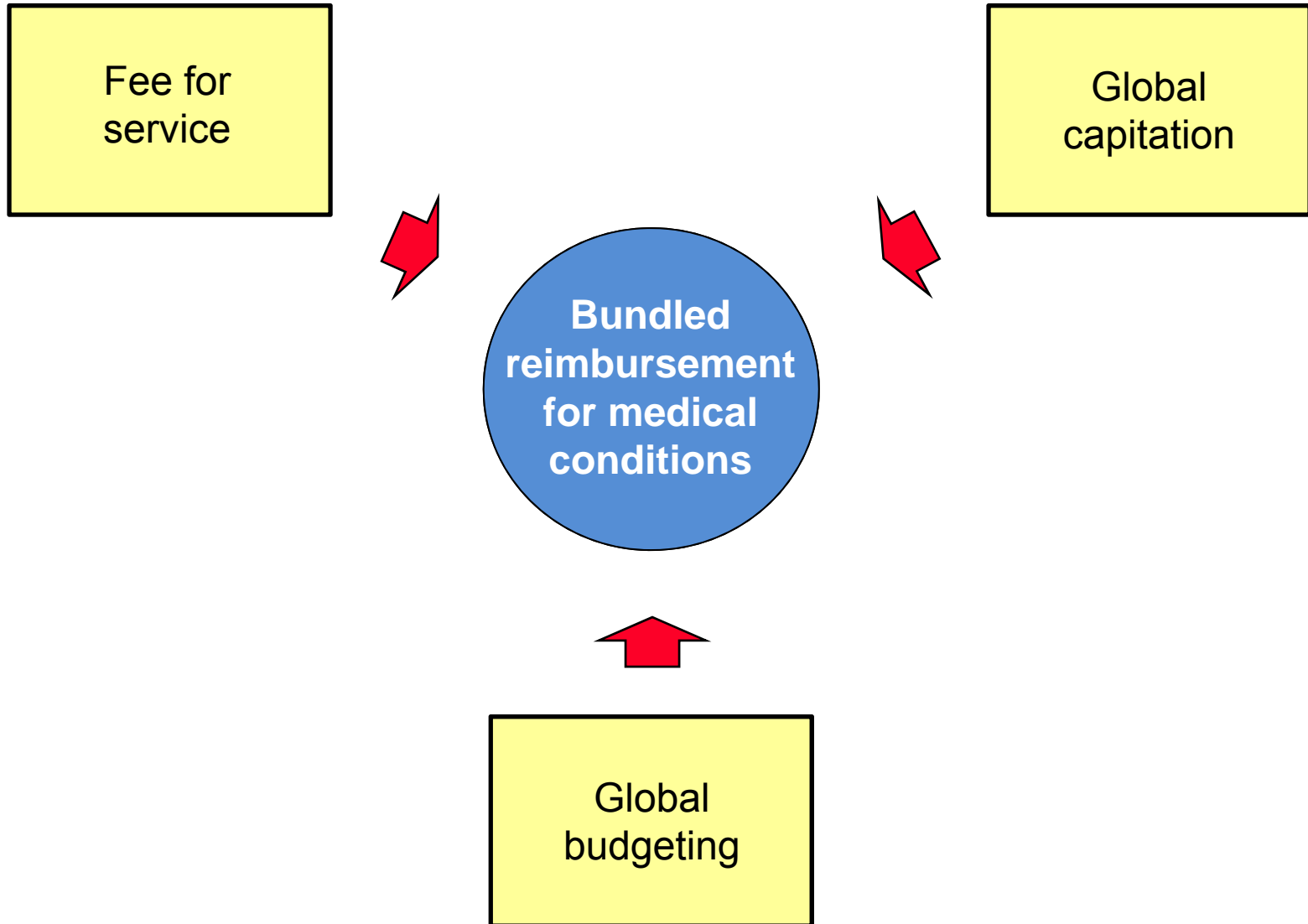


# Major Cost Reduction Opportunities in Health Care

- 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, and facilities 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 **highly-resourced** 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

## Hip and Knee Replacement in Stockholm, Sweden

- **Components** of the bundle

|                                 |   |
|---------------------------------|---|
| - Pre-op evaluation             | - All physician and staff fees and costs  |
| - Lab tests                     | - 1 follow-up visit within 3 months   |
| - Radiology                     | - Any additional surgery to the joint within 2 years                              |
| - Surgery & related admissions  | - If post-op infection requiring antibiotics occurs, guarantee extends to 5 years |
| - Prosthesis                    |   |
| - Drugs                         |   |
| - Inpatient rehab, up to 6 days |   |

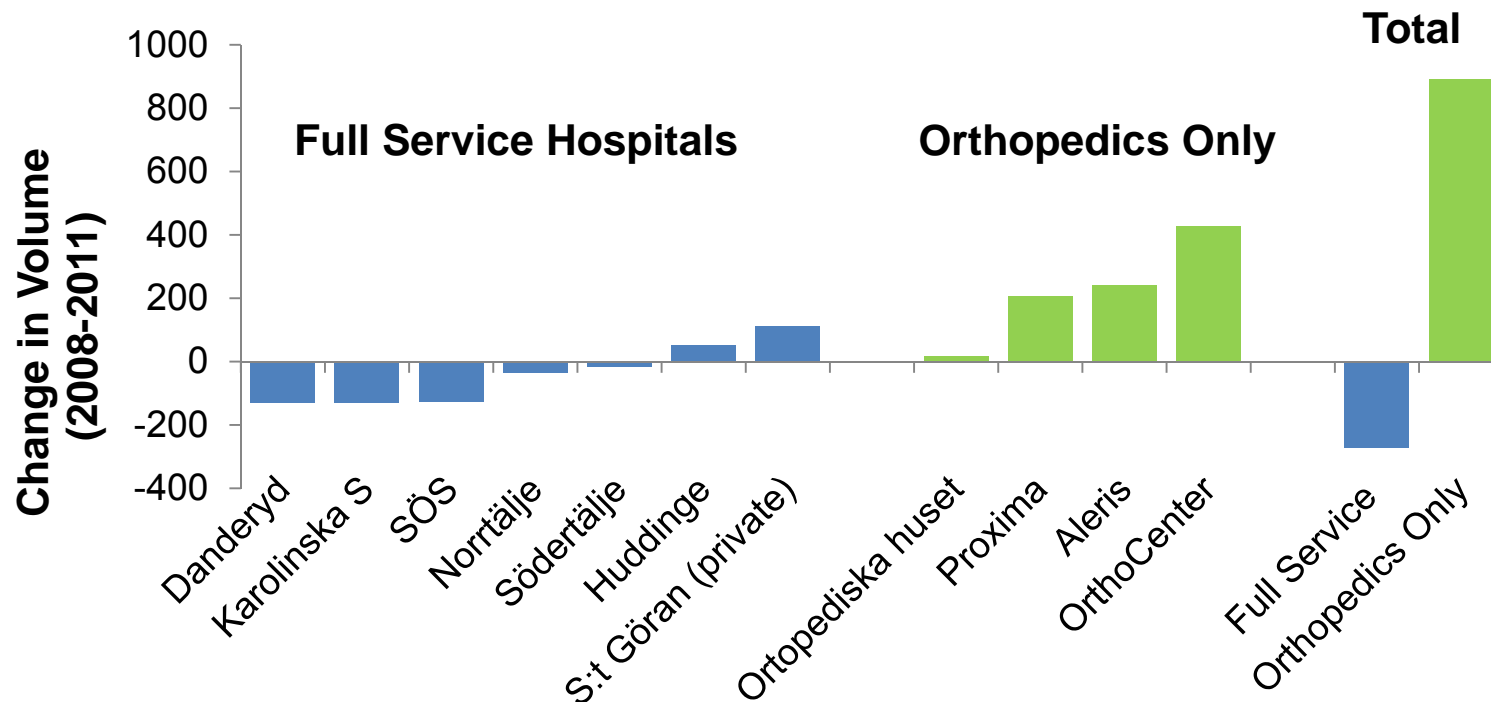
- Currently applies to all **relatively healthy patients** (i.e. ASA scores of 1 or 2)
- The same **referral process** from PCPs is utilized as the traditional system
- **Mandatory reporting** by providers to the joint registry plus supplementary reporting
- Applies to **all** qualifying patients. Provider 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**

# Hip and Knee Replacement in Stockholm, Sweden

## Provider Response

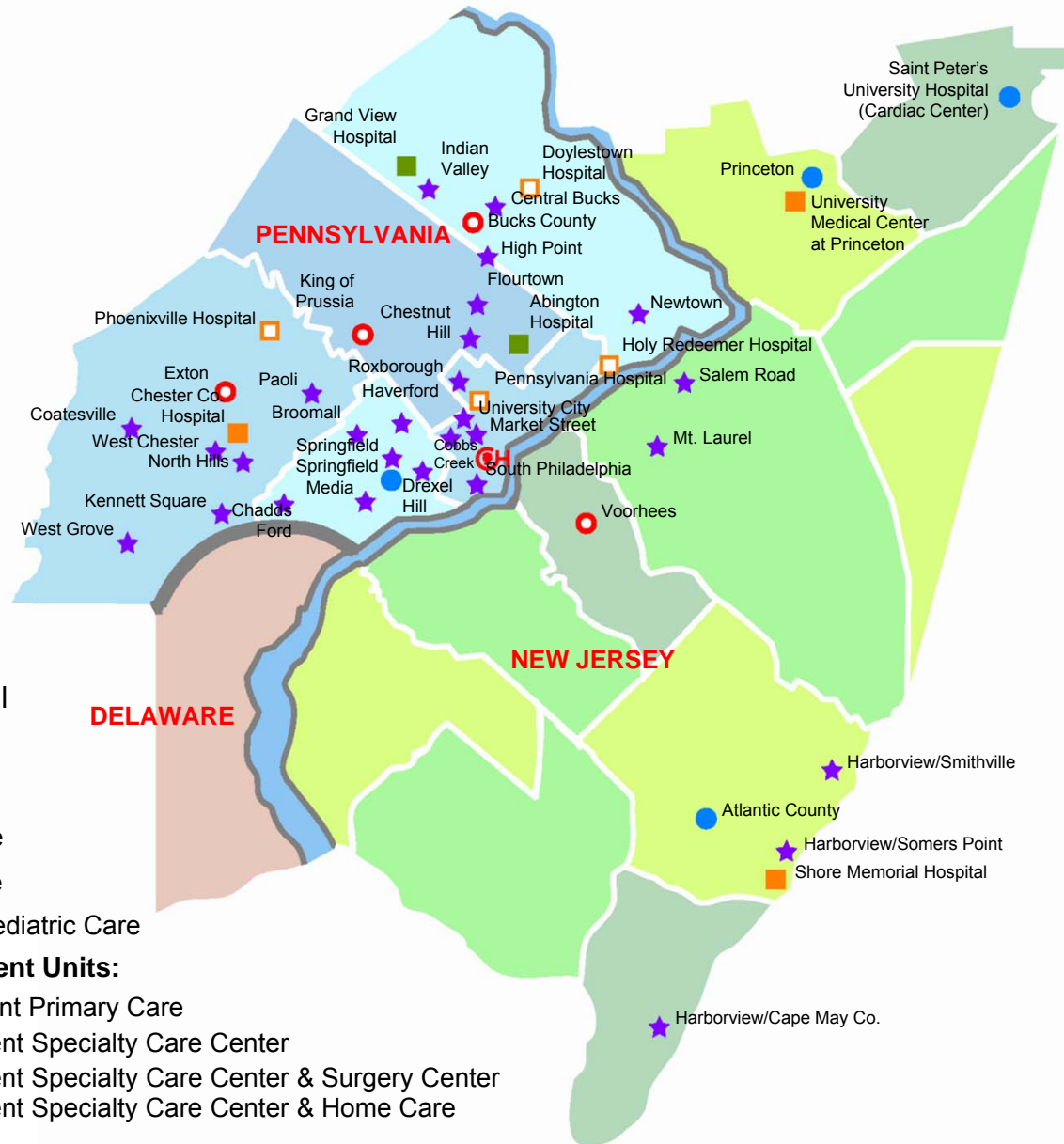


- Under bundled payment, volumes shifted from full-service hospitals to **specialized orthopedic hospitals**
- Interviews with specialized providers revealed the following **delivery innovations**:

- |   |   |
|---|---|
| – Explicit care pathways                          | – More patient education                    |
| – Standardized treatment processes                | – More training and specialization of staff |
| – Checklists                                      | – Increased procedures per day              |
| – New post-discharge visit to check wound healing | – Decreased length of stay                  |

# 4. Integrating Care Delivery Across Separate Facilities

## Children's Hospital of Philadelphia Care Network

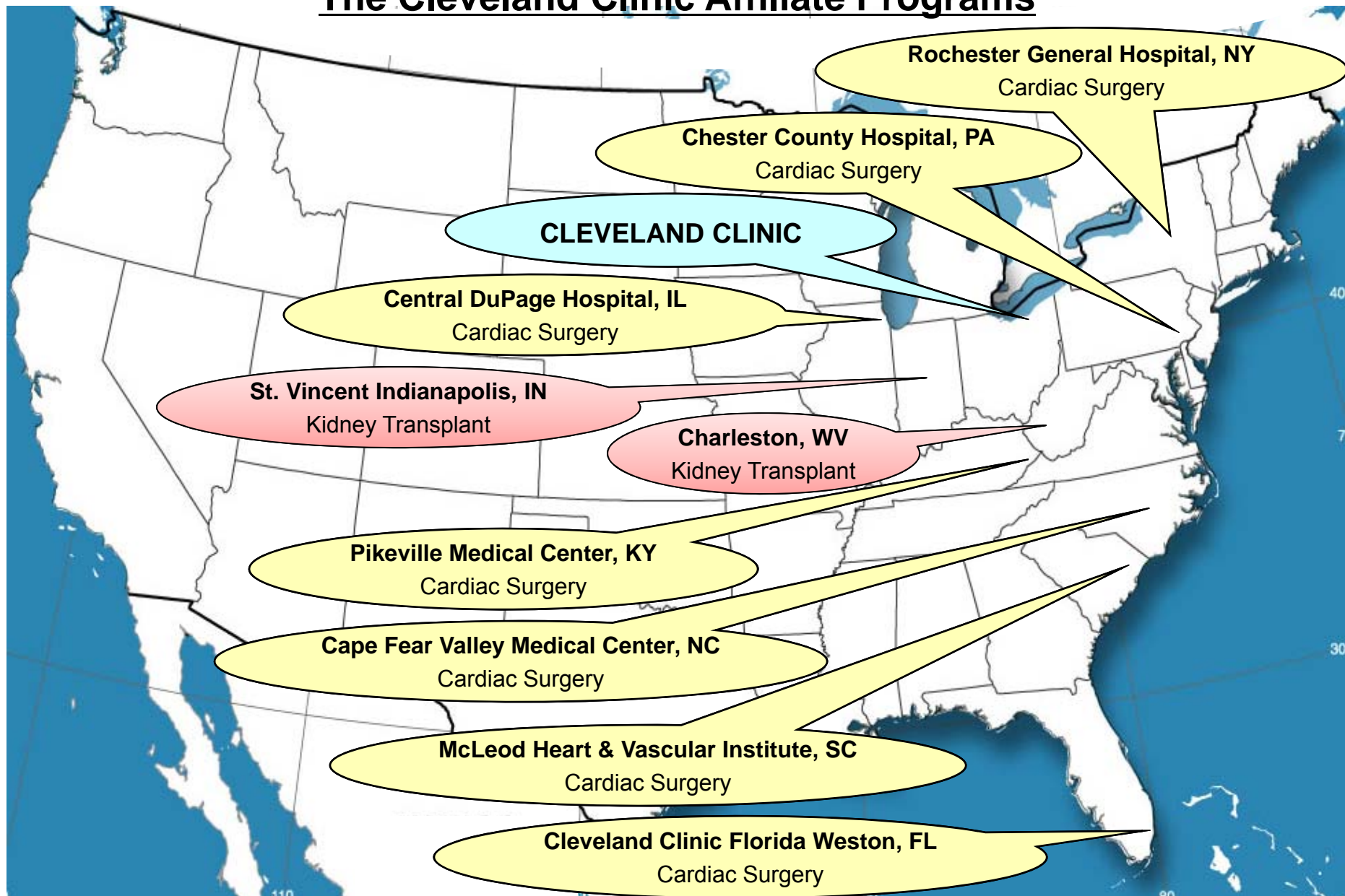


# Four Levels of Provider System Integration

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 through an IPU structure**

# 5. Expand Geographic Reach

## The Cleveland Clinic Affiliate Programs

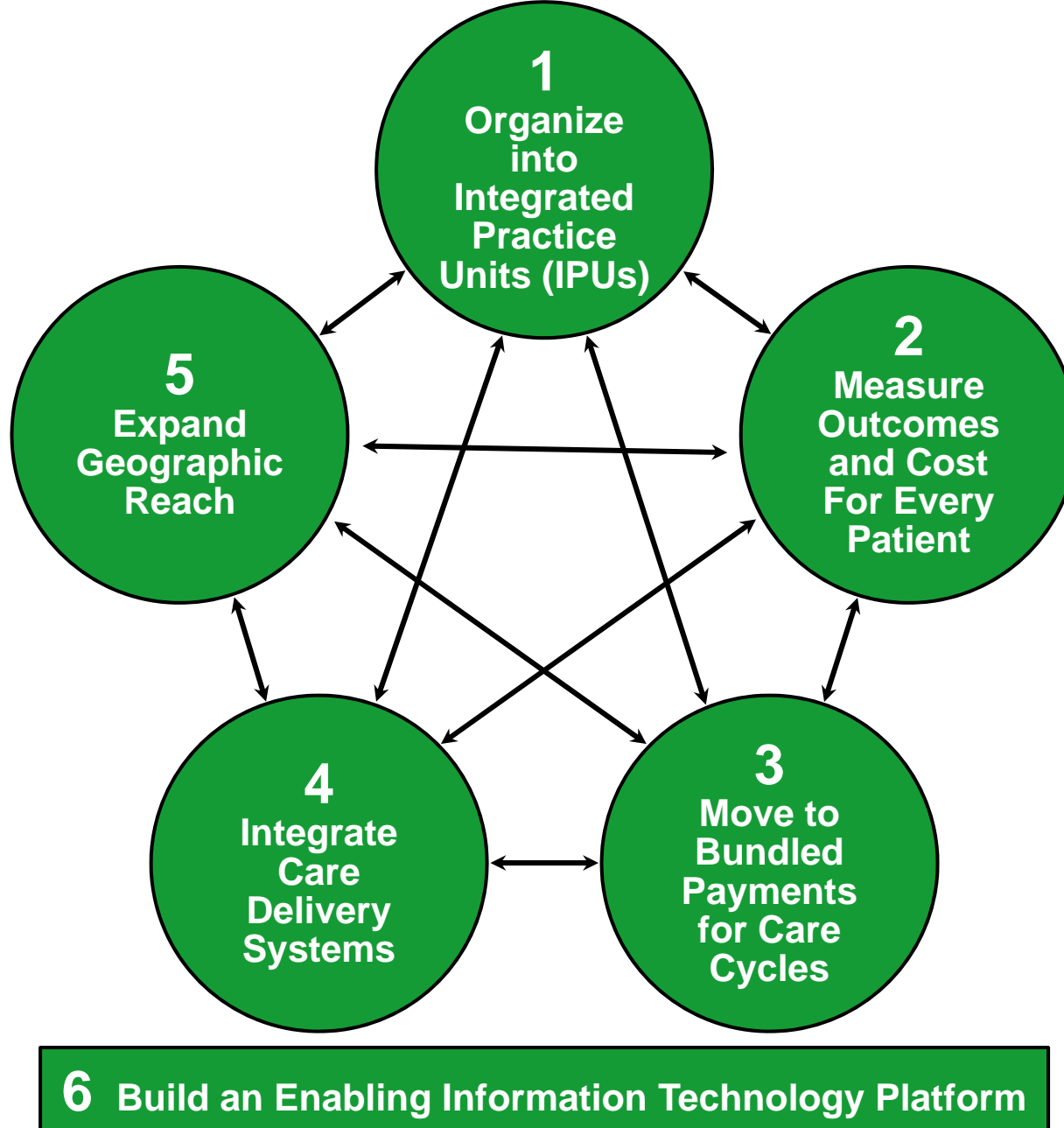


## 6. Building an Enabling Information Technology Platform

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

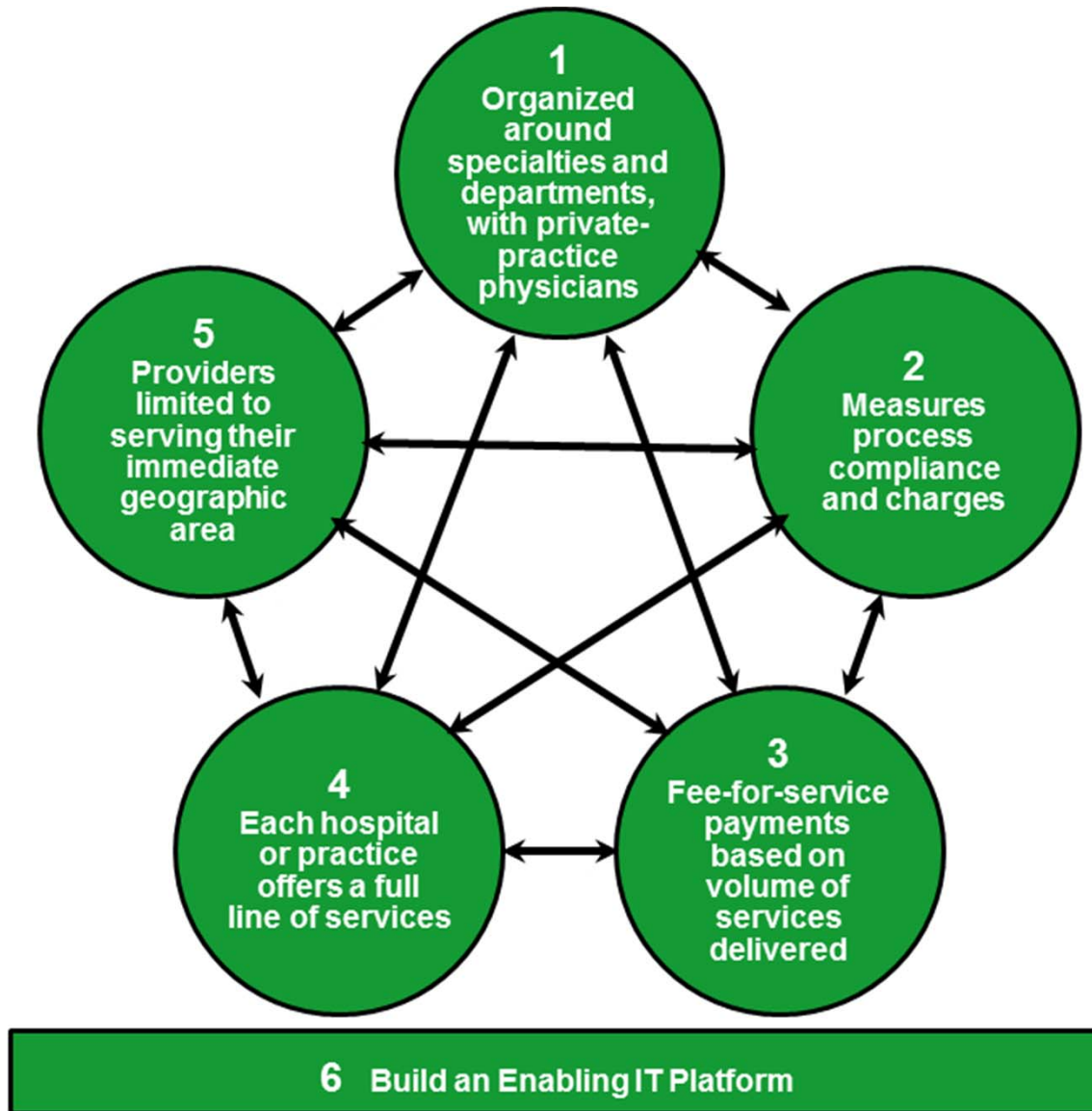
- Common **data definitions**
- Combine **all types of data** (e.g. notes, images) for each patient
- Data encompasses the **full care cycle**, including care by referring entities
- Allow access and communication among **all involved parties**, including with patients
- **Templates** for medical conditions 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





# Why We Are Stuck Legacy System



# Moving to a High-Value Health Care System

1. Make **patient value** the central goal of all reforms
2. Move towards reorganizing care into **Integrated Practice Units** around patient medical conditions
  - Certification standards should require **multidisciplinary teams**, integrated scheduling, and coordinated case management
  - Primary and preventive care should be tailored to serving **distinct patient segments**
3. Eliminate the **separation** between inpatient, outpatient, and rehabilitation care
  - Integrate care across the care cycle, with more care shifting to the **outpatient setting**
  - Reduce **cost-shifting** between care settings by eliminating the different models of reimbursement for inpatient and outpatient care
  - Harness the **power of IT** to enable integrated care delivery

# Moving to a High-Value Health Care System

4. Mandate a path to measurement and reporting of **outcomes** for every patient condition
  - Create a **national body** to oversee the development of outcome measures
  - Mandate **publication** of risk-adjusted outcomes
  - Until outcome data is widely available, expand **minimum volume standards**
5. Introduce new cost-accounting standards to measure **costs** at the level of patients and their medical conditions
  - Establish a **national body** to develop common costing standards that provide accurate cost data across providers and allows costs to be measured around the patient
  - Pilot patient-level costing **across care settings** to inform bundled payment design

# Moving to a High-Value Health Care System

6. Shift reimbursement to **bundled payments** for the full care cycle
  - Introduce a universal **reimbursement catalog** based on accurate patient-level costing
7. Encourage consolidation of **providers** and provider **service lines**
  - Expand **minimum volume standards** to support excellent outcomes and efficient capacity utilization
8. Develop a strategic plan **by medical condition** and **primary care segment** to foster care integration, introduce outcome measures, pilot patient-level costing, and shift to bundled payments
9. Engage **clinicians** in the value agenda and accept joint responsibility for its success

# Creating a Value-Based Health Care Delivery System

## Implications for Payors

1. Integrated Practice Units (IPUs)

- Encourage and reward **integrated practice unit** models by providers

2. Measure Cost and Outcomes

- Encourage or mandate **provider outcome reporting through registries** by medical condition
- Create standards for meaningful provider **cost measurement and reporting**

3. Move to Bundled Prices

- Design **new bundled reimbursement structures** for care cycles instead of fees for discrete services
- Share information with providers to enable **improved outcomes and cost measurement**

4. Integrate Across Separate Facilities

- Assist in coordinating patient care **across the care cycle** and across medical conditions
- Direct care to **appropriate facilities** within provider systems

5. Expand Excellence Across Geography

- Provide advice to patients (and referring physicians) in selecting **excellent providers**
- Create relationships to increase the volume of care delivered by or affiliated with **centers of excellence**

6. Enabling IT Platform

- Assemble, analyze, manage members' **total medical records**
- Require introduction of compatible **medical records systems**

# Creating a Value-Based Health Care Delivery System

## Implications for Government

### 1. Integrated Practice Units (IPUs)

- Reduce **regulatory obstacles** to care integration across the care cycle

### 2. Measure Cost and Outcomes

- Create a **national framework of medical condition outcome registries** and a path to universal measurement
- Tie reimbursement to **outcome reporting**
- Set **accounting standards** for meaningful cost reporting

### 3. Move to Bundled Prices

- Create a **bundled pricing framework** and rollout schedule

### 4. Integrate Across Separate Facilities

- Introduce **minimum volume standards** by medical condition

### 5. Expand Excellence Across Geography

- Encourage rural providers and providers who fall below minimum volume standards to **affiliate** with qualifying centers of excellence for more complex care

### 6. Enabling IT Platform

- Set **standards** for common data definitions, interoperability, and the ability to easily extract outcome, process, and costing measures for qualifying HIT systems