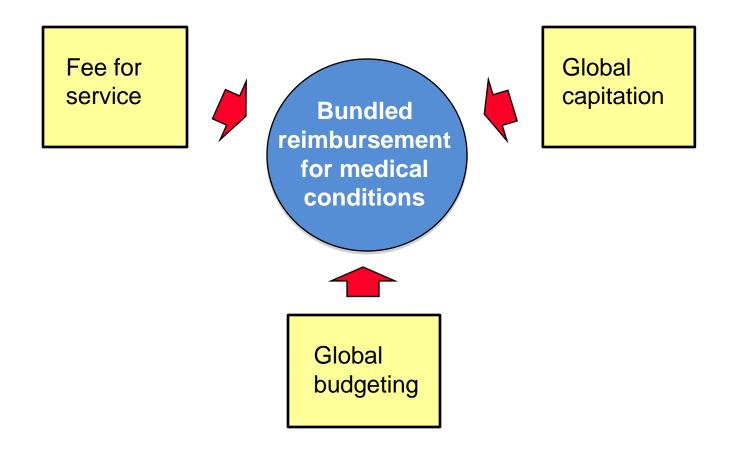
Value-Based Health Care Delivery: Reimbursement, System Integration, and Growth

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DHCS Health Care Seminar June 4, 2010

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.

Alternative Reimbursement Models



What is a Bundled Payment?

- Total package price for the care cycle for a medical condition
 - Time-based bundled reimbursement for managing chronic conditions
 - Time-based reimbursement for defined prevention, screening,
 wellness/health maintenance service bundles
 - Should include responsibility for avoidable complications
 - "Medical condition capitation"
- The bundled price should be severity adjusted

What is Not a Bundled Payment

- Price for a short episode (e.g. inpatient only, procedure only)
- Separate payments for physicians and facilities
- Pay-for-performance bonuses
- "Medical Home" payment for care coordination



- DRGs can be a starting point for bundled payment models
- Providers and health plans should be proactive in driving new reimbursement models, not wait for government

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

- Beginning in 2009, all joint replacements (hip and knee) in Stockholm County Council are reimbursed with a bundled price that includes:
 - Pre-op evaluation
 - Lab tests
 - Radiology
 - Surgery & related admission
 - Prosthesis
 - Drugs
 - Inpatient rehab, up to 6 days

- 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
- The bundled price 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
- There is mandatory reporting by providers to the joint registry plus supplementary reporting
- Provider participation is voluntary but all providers are involved
 - 6 public hospitals, 4 private hospitals
 - 3400 patients treated in 2009
- The bundled price for a knee or hip replacement is about US \$8,000

Creating a Bundled Pricing System

- Defining the Bundle
 - Scope of the medical condition
 - Range of services included
 - Complications and comorbidities included/excluded
 - Duration of care cycle/time period
 - Must be long enough to minimize the risk of cost shifting
 - Flexibility on methods/process of care essential
- Pricing the Bundle: Choices
 - Price relative to sum of current costs
 - Amount of incentive to improve value by reducing avoidable complications, improving efficiency, etc.
 - Extent of "guarantees" by providers
 - Extent of severity/risk adjustment
 - Mechanism for handling unanticipated complications/outliers
- Implementing the Bundle
 - Claims management process
 - Internal distribution of payment among providers (dividing the pie)
 - Degree of risk sharing by specialty
 - Outcome measurement is essential to measure success and minimize incentives to limit value-enhancing services

Moving to Bundled Pricing: Challenges and Enablers

Obstacles

- Lack of historical cost data per patient
- Absence of interoperable EMRs across units involved in care
- The need to modify insurer reimbursement infrastructure
- Legal impediments gainsharing
- Resistance by physicians (e.g. risk-taking)
- Fragmentation of providers and payors
- Achieving stakeholder consensus
- Difficulty of modifying care delivery structure
- Absence of outcome measurement

Enablers

- Established IPUs
- Employed physicians
- Patient-based, medical condition-based cost accounting
- Direct negotiation with employers
- Established outcome measurement

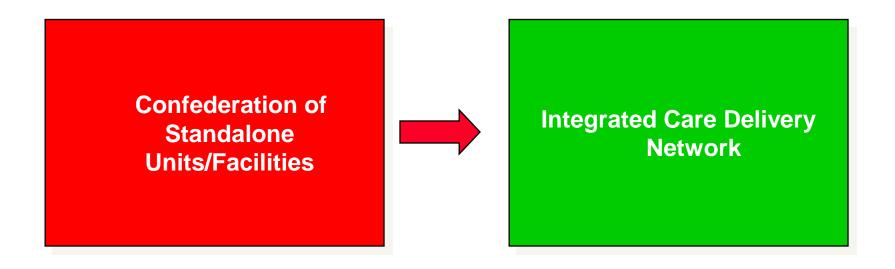
Bundled Pricing in Practice Selected U. S. Examples

- Organ Transplantation
- Medicare Heart Bypass Demo (1991-1996)
 - DRGs, 106,107,108
 - Seven hospitals
 - Patient value improved
 - Insurer resistance/provider resistance
 - Pilot ended
- Geisinger ProvenCare
 - CABG
 - Includes 90 day complications
 - Bundle price includes 50% of average cost of avoidable complication
 - Achieved better outcomes, costs
 - Ongoing effort
- Medicare ACE Demonstration
 - Combined Part A/Part B
 - Cardiac and orthopedic surgery (11 areas)
 - 5 hospitals
 - In process
- Prometheus
 - Multiple pilots in various stages of development
 - Replicable methodology
 - Includes avoidable complications
- Blue Cross / Blue Shield of South Carolina
 - Diabetes care
- Minnesota Baskets of Care
- Fairview / Carol Corporation

4. Integrate Care Delivery Across Separate Facilities

- Expand geographic coverage
- Increase volume by medical condition
- Gather volume for high acuity facilities
- Reduce crowding at capacity constrained facilities
- Expand coverage of the care cycle

Creating a Provider System



- Increase overall volume
 - **♣**
- Benefits limited to contracting and spreading limited fixed overhead

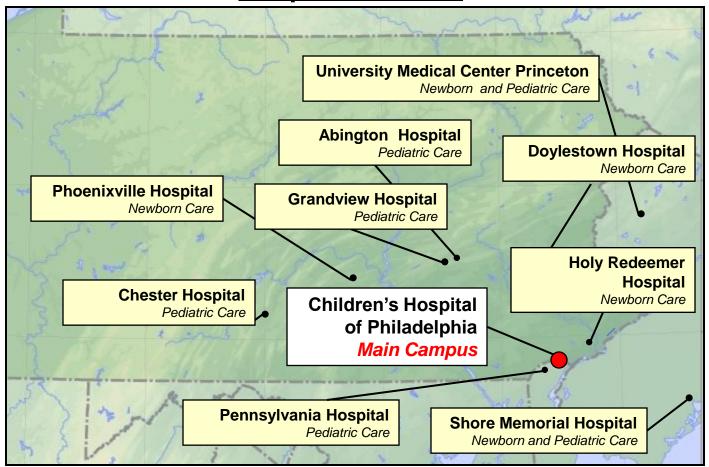
Increase value



 The network is more than the sum of its parts

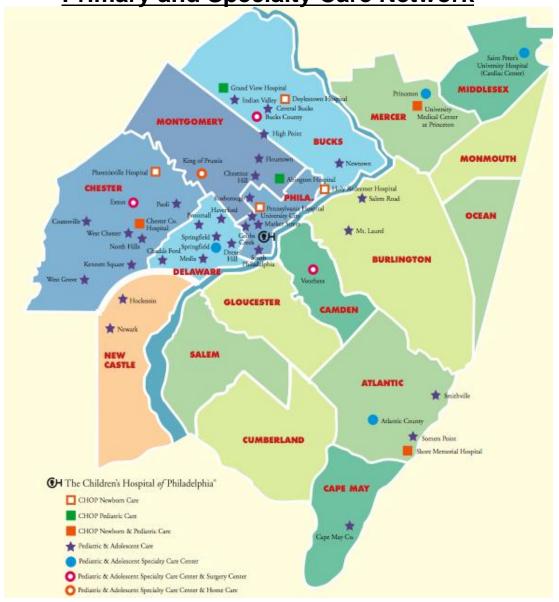
Building an Integrated Care System Children's Hospital of Philadelphia (CHOP)

Hospital Affiliates



Building an Integrated Care System Children's Hospital of Philadelphia (CHOP)

Primary and Specialty Care Network



Levels of System Integration

- Rationalize service lines/ IPUs across facilities to improve volume, avoid duplication, and concentrate excellence
- Offer specific services at the appropriate facility
 - E.g. acuity level, cost level, need for convenience
 - Patient referrals across units
- Clinically integrate care across facilities, within an IPU structure
 - Expand and integrate across the care cycle
 - Consistent protocols throughout the network (IT enabled)
 - Connect ancillary service units to IPUs
 - E.g. home care, rehabilitation, behavioral health, social work, addiction treatment (organize within service units to align with IPUs)
 - Connect preventive/primary care units to specialty IPUs

Enabling System Integration

Practice Structure

- IPU structure
 - "Virtual" IPUs even if providers practice at different locations
 - First step is to increase consistency of protocols/processes across sites
 - Case management structure spanning units where appropriate

Scheduling

Common or federated patient scheduling service across units

Physician Organization

- Employed physicians
- Formal affiliations with independent physicians
 - Support service as an inducement for affiliation (E.g. IT, back office)
- Rotation of staff across locations

Common Systems

- Common EMR platform which aggregates information across units
- Common outcome and process measurement systems

Cost Measurement

- Ability to accurately accumulate cost per patient across the entire care cycle
- Ability to measure cost by location for each service/activity

<u>Culture</u>

 Management practices that foster affiliation with the organization, developing personal relationships, and regular contact among dispersed staff

5. Grow by Expanding Excellent IPUs Across Geography

- Grow in ways that improve value, not just increase volume
- Grow areas of excellence and leverage across locations, rather than adding broad line, stand-alone units

Grow by Expanding Excellent IPUs Across Geography



Grow in ways that improve value, not just volume

Models of Geographic Expansion

Affiliations

Affiliation
Agreements
with
Independent
Provider
Organizations

Second
Opinions and
Telemedicine

Dispersed Services

Dispersed Diagnostic Centers Convenience
Sensitive
Service
Locations in the
Community

Complex IPU Components (e.g. surgery) in Additional Locations

New Hubs

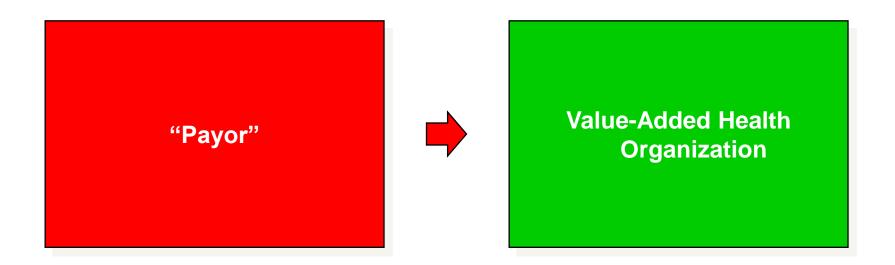
Specialty
Hospitals as
Referral Hubs
in Additional
Locations

New Broader-Line Hospital Hubs

Value-Based Health Care Delivery <u>The Strategic Agenda</u>

- 1. Organize into Integrated Practice Units around the Patient's Medical Condition (IPUs)
 - Including primary and preventive care for distinct patient populations
- 2. Measure Outcomes and Cost for Every Patient
- 3. Move to Bundled Prices for Care Cycles
- 4. Integrate Care Delivery Across Separate Facilities
- 5. Grow by Expanding Excellent IPUs Across Geography
- 6. Create an Enabling Information Technology Platform

Value-Based Healthcare Delivery: Implications for Contracting Parties/Health Plans



Value-Adding Roles of Health Plans

- Measure and report overall health results for members by medical condition versus other plans
- Assemble, analyze and manage the total medical records of members
- Provide for comprehensive and integrated prevention, wellness, screening, and 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



 Health plans will require new capabilities and new types of staff to play these roles

Value-Based Health Care: The Role of Employers

- Employer interests are more closely aligned with patient interests than any other system participant
 - Employers need healthy, high performing employees
 - Employers bear the costs of chronic health problems and poor quality care



- The cost of poor health is 2 to 7 times more than the cost of health benefits
 - Absenteeism
 - Presenteeism
- Employers are uniquely positioned to improve employee health
 - Daily interactions with employees
 - On-site clinics for quick diagnosis and treatment, prevention, and screening
 - Group culture of wellness
 - Providers should establish direct relationships with employers to enable value based approaches

Value-Based Health Care Delivery: Implications for Government

- Remove obstacles to the restructuring of health care delivery around the integrated care of medical conditions
- Establish universal measurement and reporting of provider health outcomes
- Require universal reporting by health plans of health outcomes for members
- Shift reimbursement systems to bundled prices for cycles of care instead of payments for discrete treatments or services
- Open up competition among providers and across geography
- Mandate EMR adoption that enables integrated care and supports outcome measurement
 - National standards for data definitions, communication, and aggregation
 - Software as a service model for smaller providers
- Encourage greater responsibility of individuals for their health and their health care