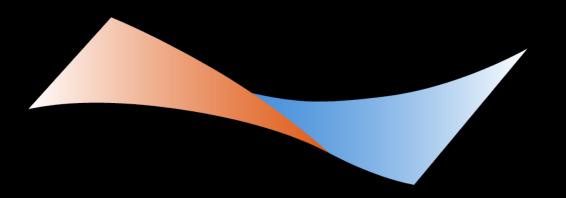
# Hoag Orthopedic Institute



# Orthopedic Care Delivery 2011 and Beyond

James T. Caillouette, MD

Surgeon –in-Chief

Hoag Orthopedic Institute



#### Disclosure

- Consultant for DePuy/J&J
- Equity shareholder Hoag Orthopedic Institute



## Why innovate?

The status quo is not sustainable



## Why innovate?

• It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is the most adaptable to change.

**Charles Darwin** 



# 2009 Study of High-Cost Conditions

Hospital Charges for Hip and Knee replacement surgery range from \$15,000 to \$110,000, with no measurable differences in outcome or quality.



### Why Orthopedics?

- Musculoskeletal Care is BIG
- 1 in 4 Americans has a musculoskeletal condition
- Direct and indirect cost of care = \$849
   Billion annually
- 7.7% of GDP
- Aging population, obesity, increasing need

#### **Orthopedics costs**

#### Total US cost of TKR ~ \$21 billion

- ➤583,000 TKR
- ➤ Purchasers' cost ~ \$8 billion
- >42% of procedures under age 65

#### Total US cost of THR ~ \$16 billion

- >408,000 THR
- ➤ Purchasers' cost ~ \$5 billion
- >45% of procedures under age 65



## Our Population is Aging...

 42 % increase in persons > 65 years by 2030

Obesity epidemic

 Projected increase in joint replacement by 2030 > 250%







## What Is Value in Health Care?

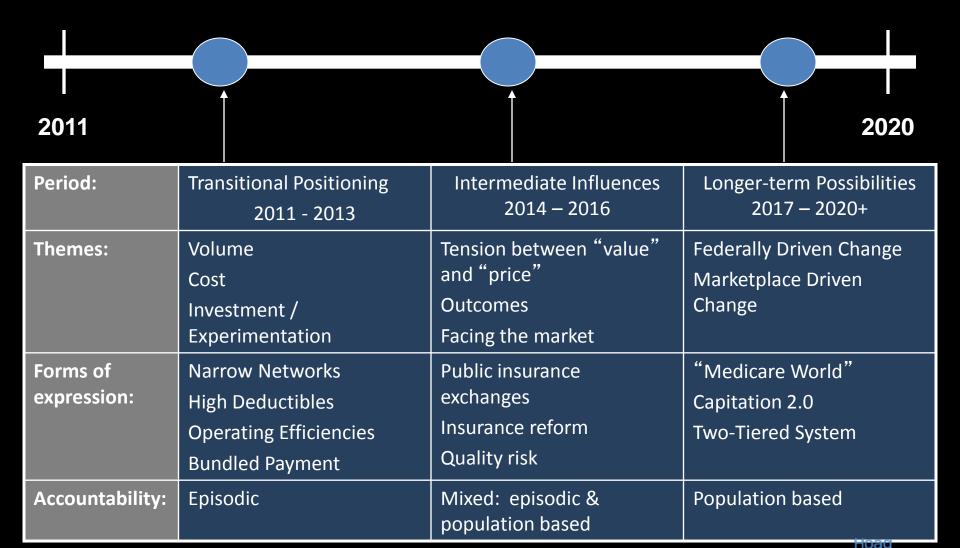
Michael E. Porter, Ph.D.

#### How does this impact me?

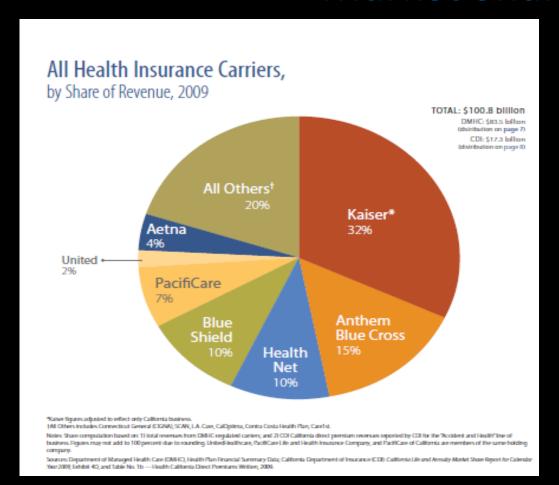
- Marketplace Shifts in Payment Methodologies
- Role of Health Plans
- Role of Employers
- California as "Ground Zero"
  - Bundled Payment 1.0
  - Bundled Payment 2.0
  - Narrow Networks



#### Marketplace Shifts in Payment Methodologies



# Health Plans in California Market Share



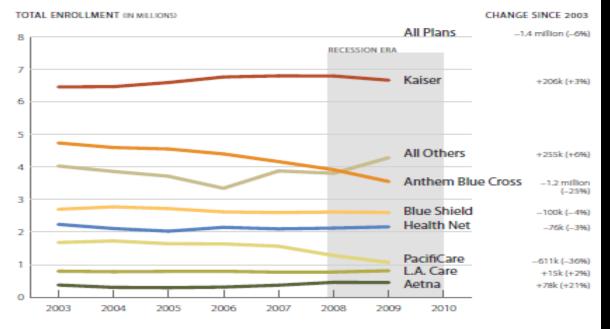
Five players dominate the state's health insurance market, accounting for some three-fourths of all revenues.

Kaiser controls 9% of the inpatient market share in Orange County, but > 15% of the covered lives.



# Health Plans in California Enrollment Trends – By Plan

#### Enrollment Trends in DMHC-Regulated Plans, Year-End 2003 to 2009



Note: Plans shown are full-sented DMHC plans with over 450,000 emailiers and year-end 2000 Pacificans exports merger-estated activities have led to emailment transfers to United-Healthcans Pacificans excellment declined 17 percent in 2009 and 187 percent store year-end 2007, Largest plans were selected on the bash of emailment at December, 2009. Sources: Department of Managed Health-Care-DMHC), Health Than Francial Summary Data. National Bureau of Economic Research. Enrollment in DMHC regulated plans has dropped 6 percent since the end of 2003 — a loss of 1.4 million enrollees. The largest seven DMHC plans lost 9 percent of their enrollment in this period.



# Role of Employers / Purchasers





# Pacific Business Group on Health Members

























































© Pacific Business Group on Health, 2010





#### Reference Pricing



2011 CalPERS Health Plan Rate and Benefit Changes Seminar CalPERS Preferred Provider Organization (PPO) Plan – Anthem Blue Cross

#### Value Based Purchasing Design (VBPD) (continued)

- Benefits for these procedures at facilities designated in the VBPD pilot will apply in accordance to the member's plan
- Benefits for these procedures not performed by a VBPD pilot facility will be limited to \$30,000 per procedure
- Total of 44 hospitals chosen as Value Based Purchasing facilities





Anthem Blue Cross has ... established a threshold of \$30,000 to cover inpatient services for routine single knee and hip joint replacement hospital stays. Using the CalPERS Choice plan design with an 80% in-network coinsurance (\$3,000 out-of-pocket maximum) and 60% out-of-network coinsurance (with no-out-of-pocket maximum), the following illustrates the member impact:

	Designated	In-network	Out-of-network
Hospital billed	\$60,000	\$60,000	\$60,000
Negotiated rate/C&R	\$30,000	\$40,000	\$50,000
Provider write-off	\$30,000	\$20,000	\$0
Member co-insurance annual OOP	\$3,000	\$3,000	\$20,000
Paid	\$27,000	\$27,000	\$30,000
Member obligation	\$3,000	\$13,000	\$30,000



#### Narrow Networks

- Yes, it's all about cost for the Payers-no outcome data tie in for now...
- 3-Tier network for CalPERS PPO
  - Tier 1 lower cost (i.e. rates) providers
  - Tier 2 all other contracted providers
  - Tier 3 anyone else
  - Financial exposure doubles between 1 and 2 (\$3,000/\$6,000 to \$6,000/\$12,000)





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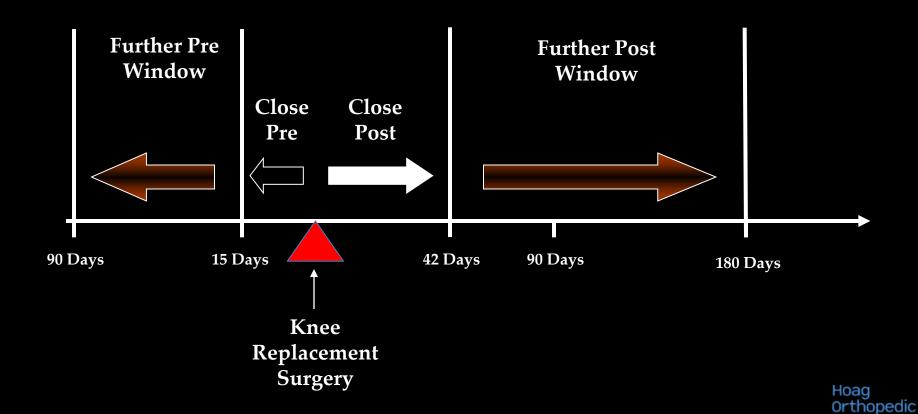
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### Bundled Payment 1.0

- IHA Bundled Payment Pilot
- PPO Pilot for TKR Aetna, Blue Shield & CIGNA
- Single budget for Episode of Care (hospital IP stay, surgeon, HB physician, lab, rad, etc)
- Introduces warranty concept for care
  - 90-day warranty for readmission or complications



#### Knee Replacement Definition Episode Time Windows

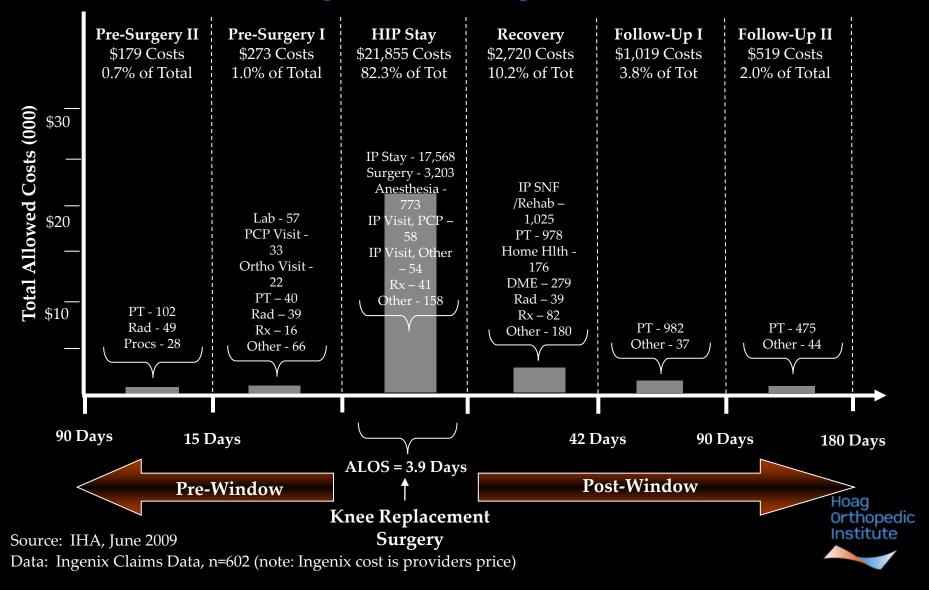


Institute

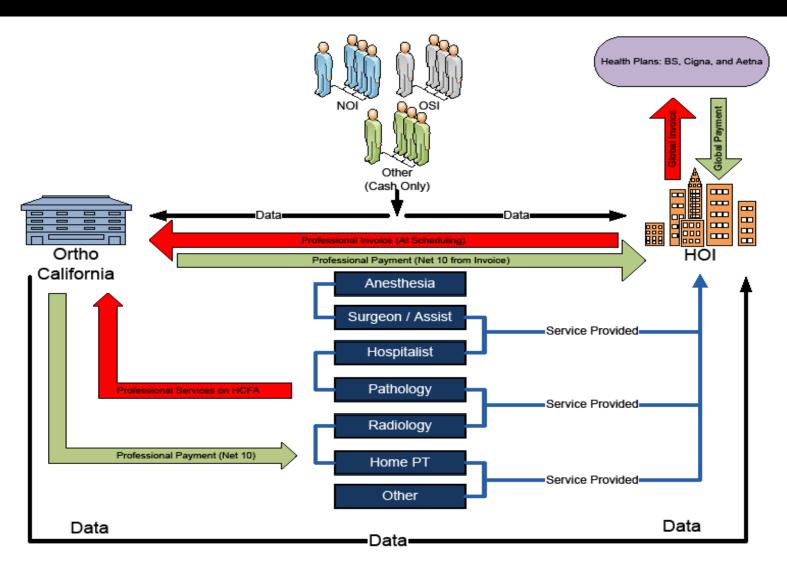
Source: IHA, June 2009

#### Further Analysis: Knee Replacement Procedure Episode Group

Average Commercial Population Costs <sup>1</sup>



# Simple?



#### **Bundled Payment 1.0**

- Lessons Learned & Take-Aways
  - Common language & definitions
    - One party's version of "cost neutral" is another's "cost increase/decrease"
  - Specifics around what's in and out of scope for warranty
  - Benefit Design reward the innovators?
  - "To whom do the benefits accrue..."?
  - Sustainability? cycle of cost savings, followed by reduced payment, followed by cost savings, ... repeat

#### **Bundled Payment 2.0**

(aka Vouchers)

- "Bundled Payment" is delegated to the consumer
- Anthem Value Based Purchasing Design
- Effective January 1, 2011 it is here!





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#### What is Value in Healthcare?

- "Value is health outcome achieved per dollar spent."
   Michael Porter HBS.
- "Since value is defined as outcomes relative to costs, it encompasses efficiency. Cost reduction without regard to the outcomes achieved is dangerous and self- defeating, leading to false "savings" and potentially limiting effective care".

Michael Porter HBS.



#### Conclusions

- Pace of introduction of new models and pilots likely to increase
- Bundled payment seems well suited for Orthopedic model; however, long term sustainability in terms of value creation for providers uncertain
- Bundled payment in the form of consumer vouchers very likely in orthopedics – where will it be deployed next?



# Overriding Principals of Economic Survival

Efficiency wins

Alignment wins

No margin, no mission



# In Healthcare:

Value = Outcome Cost



The greatest opportunity for efficiency is a <u>frictionless</u> combination that harnesses the <u>deep knowledge</u> of hospital and physician.



# Hospital's Strengths

- Resources \$\$
- Depth of Human Resources
- Depth of Facilities Management
- Market Presence/Name Recognition
- Contracting Clout



# Physician's Strengths

- Physician Patient Relationship
- Apex Care Provider
- Deep Specialty Expertise
- Cost Sensitive It's my money!



# Physician Deep Knowledge

Is a new technology worth the price?

Complication prevention

Does cost reduction increase risk?



## Physician Hospital Alignment

Both Sides must deliver on promises made in a timely fashion.

-Both sides benefit-



# The Key to Integration:

### **TRUST**





# Hoag Memorial Hospital Presbyterian

- Largest health care provider in Orange County
- 12<sup>th</sup> largest hospital in California
- Ranked 2<sup>nd</sup> in State for patient satisfaction
- Highest volume joint replacement center in California



# What is HOI? Current Members

HOI is a joint venture that has brought together a leading hospital, two medical groups, two ASCs, and the only specialty hospital focused on orthopedic services in Orange County.



Hoag Memorial Hospital Presbyterian



NewportOrthopedicInstitute (NOI)





Orthopedic Specialty Institute (OSI)





Hoag Orthopedic Institute (hospital)



## HOI Orthopedic Hospital

- Licensed November, 2010
  - Concerns: HR 3590- "Patient Protection & Affordable Care Act"
- 70 beds
- 9 Orthopedic OR's
- Hoag Orthopedic Institute Inpatient Capacity – 12,000 cases/yr.
- Outpatient Capacity-20,000 cases/yr.





#### What is Value in Healthcare?

• "Since value is defined as outcomes relative to costs, it encompasses efficiency. Cost reduction without regard to the outcomes achieved is dangerous and self- defeating, leading to false "savings" and potentially limiting effective care". Michael Porter HBS.



#### Take Away Concepts

- Think long term and be proactive
- Learn from other industries-macro economics
- You have to be willing to give to get
- Efficiency will win
- Best outcomes will win
- Best patient experience will win
- Transparency to patients will win



#### Must Read:

- The Innovator's Prescription
  - Clayton M Christensen

