Information Sharing: Optimal Data Sets and Protocols for CI and ACOs

Using HIT to Optimize Clinical Quality Improvement

The National Pay for Performance Summit San Francisco
March 25, 2011

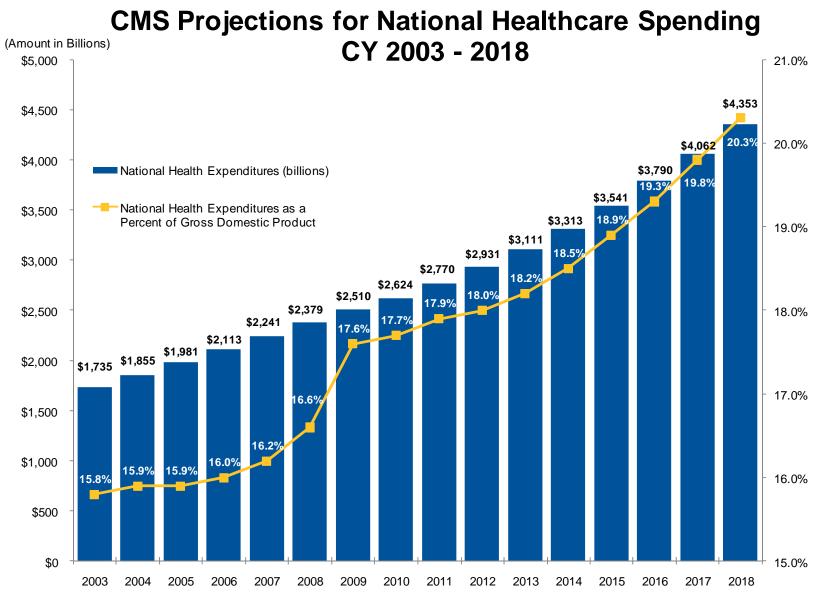
Deb Lange, MS
Senior Director, Solutions Architecture
Ingenix | Clinical Performance Solutions

Eric T. Nielsen, MD

Vice President

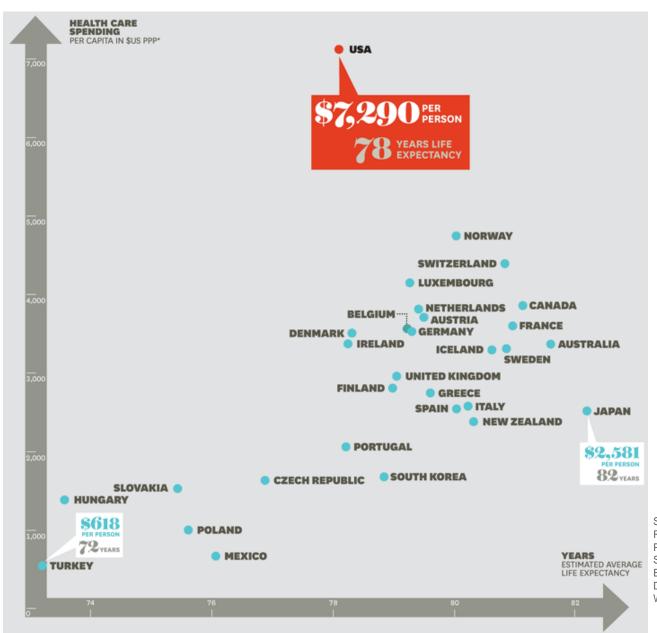
The Camden Group, El Segundo, CA

Healthcare Spending Growth



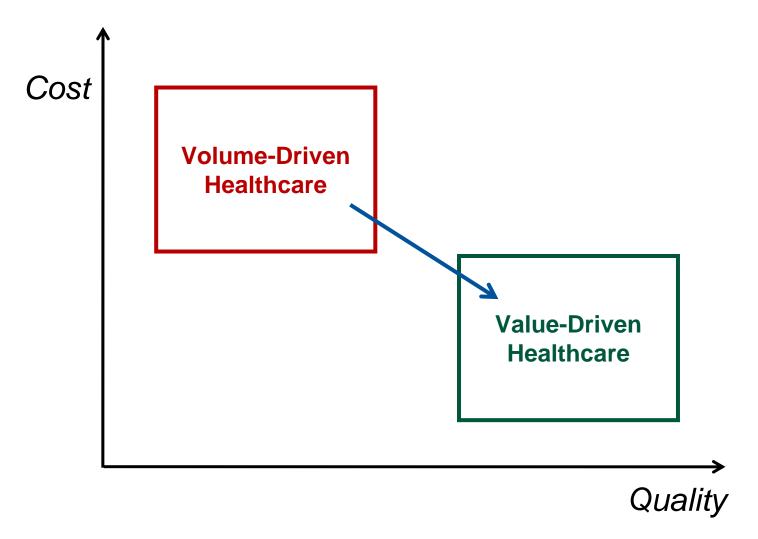
 $Source: \ Centers for Medicaid \& Medicare Services - NHE \ Projections 2008-2018, For exast Summary and Selected Tables$

Premium Price, Poor Performance



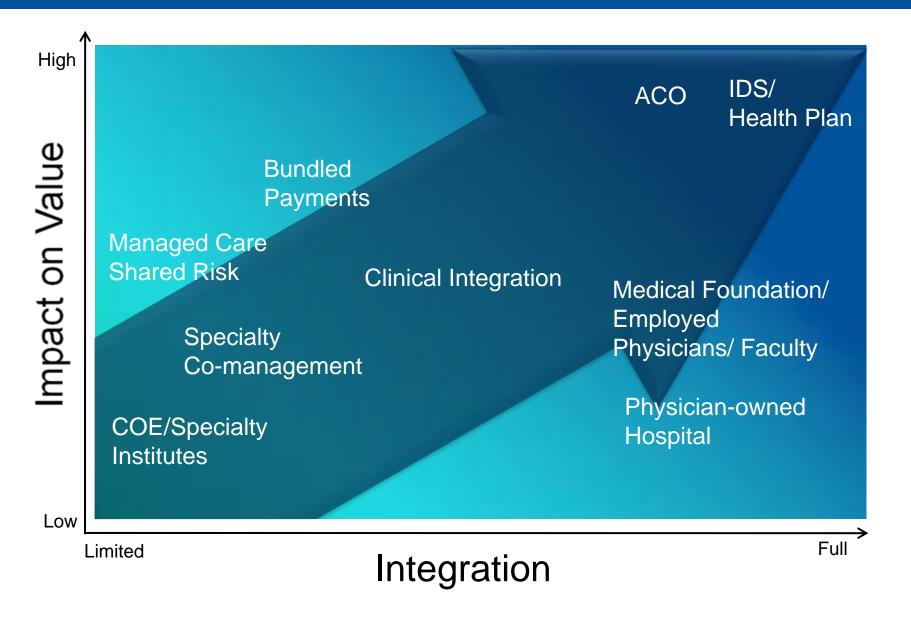
Source: Harvard Business Review. "Premium Price, Poor Performance." By Jeff Levin-Scherz. Organization for Economic Cooperation and Development and the CIA World Factbook

Payment is Transitioning from Volume-driven to Value-driven



Source: Center for Healthcare Quality and Payment Reform

Physician-Hospital Integration: Driving the Value Proposition



Core Themes of Healthcare Reform

| | How | | | | |
|------------------------------|---|--|--|--|--|
| Expand Coverage | Expand Medicaid Subsidies for moderate income individuals No exclusions for pre-existing conditions Create new entrants/market competition for health insurance (e.g., co-ops, State exchanges) Individual and employer mandates | | | | |
| Payment Reform | Reduced payment for hospital with higher than expected readmission rates Implementation of value-based purchasing program for hospitals and doctors Further payment reductions for healthcare-acquired conditions Increase in payments for primary care services – more for shortage areas | | | | |
| Delivery System Reform | Medicare bundled payment pilots Accountable Care Organizations CMS Center for Medicare and Medicaid Innovation Medicaid payment demonstration projects | | | | |
| Pay for It | Tax on "Cadillac" plans Increase income tax on high income families Disproportionate Share Hospital ("DSH") payments reduced Drug companies, medical device, health insurers, clinical labs assessed fees | | | | |

The One-two Punch









- 1. Expand Coverage
- 2. Payment Reform
- 3. Delivery Evolution

- 1. Better Individual Care
- 2. Better Population Health
- 3. Lower Cost

Another View on Healthcare Reform



Clinical Needs Have Changed

| Year | Life Expectancy | Death Rate (per 100,000) | Leading Causes of Death | Clinical Need |
|------|--------------------|-----------------------------|--|--------------------------------|
| 1900 | 47 | 1,719 | Pneumonia Influenza Tuberculosis Diarrhea GI disease | Acute |
| 1950 | 68 | 963 | Heart Disease Cancer Cerebrovascular | Acute Chronic |
| 2000 | 77 | 865 | Heart Disease* Cancer* Cerebrovascular | Chronic Acute Prevention |
| 2020 | ? | ? | ? | Prevention Chronic Acute |

^{*} Cancer is currently the leading cause of death for certain age groups

Changing Patient Care Needs

20% members = 80% cost

WellNo Disease

At Risk
Smoke
Lack of
Exercise

Acute
Episodic
Illness
Doctor Visits
Emergency
Visits
Hospitalization

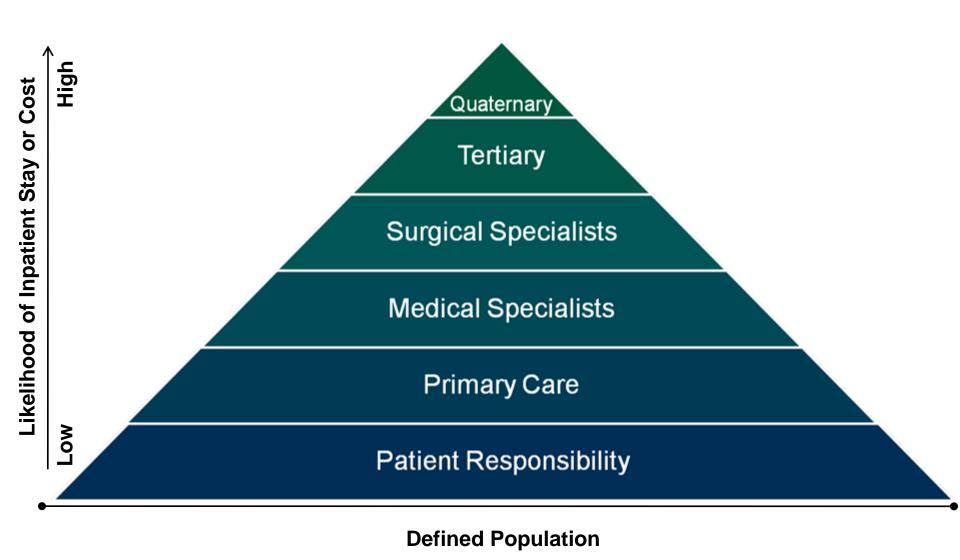
Chronic
Illness
Diabetes
Coronary
Heart Disease

Catastrophic
Head Injury
Cancer

80% members = **20%** cost

Source: Mercer

New Paradigm: Increase the Defined Population We Care For



Accountable Care Organization

ACO is an organization that:

Can provide primary & basic med/surg inpt care for a population

 Takes responsibility for overall costs and quality of care for a population

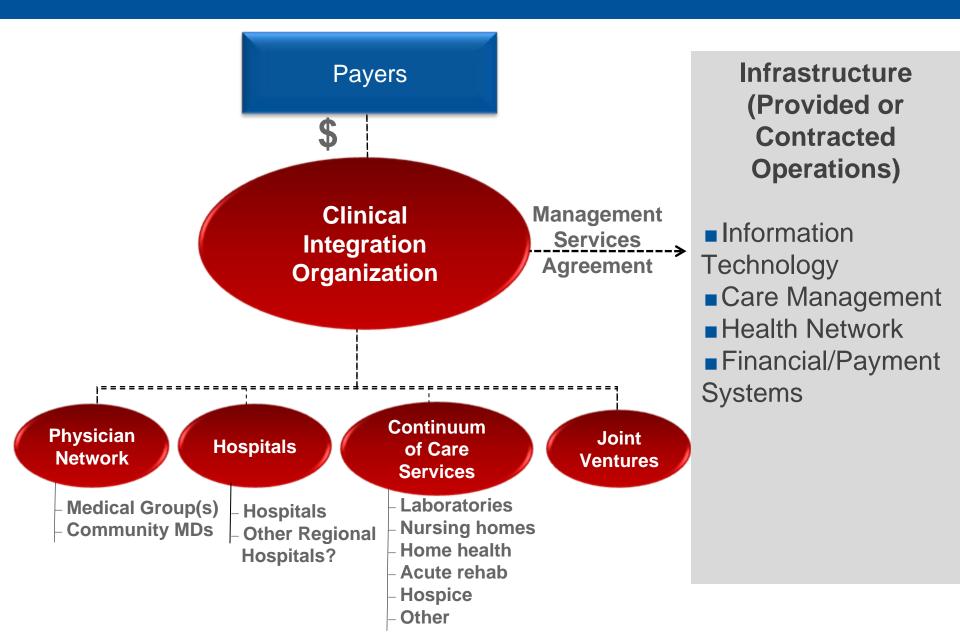
Have size & scope to fulfill this responsibility

ACO's could be:

- Integrated Delivery System
- PHO
- IPA
- Partnership of PHOs / IPAs
- Large group practice



Build Infrastructure



ACO Goals of PPACA

Other Details from Section 1899:

- Establish a shared savings program that promotes accountability for a patient population
- Encourage investment in infrastructure and redesigned care processes for high quality and efficient service delivery
- Contract with ACOs for Medicare FFS not later than January 1, 2012
- Preliminary ACO model: Medicare Physician Group Practice Demonstration Project
 - Included ten physician groups, averaging 500 doctors and 22,000 beneficiaries
 - Five groups awarded \$25.3 million out of possible \$32.3 million in savings in 2009 (80 percent of savings to providers)

Source: MEDPAC, Report to the Congress: Improving Incentives in the Medicare Program, June 2009

Sample ACO Payment Calculation

| | Year 1 | Year 2 | Year 3 | |
|------------------------------|-----------------------------|-----------------------------|-----------------------------|--|
| Quality Standards Met? | Yes | No | Yes | |
| Cost Savings Achieved? | No | Yes* | Yes* | |
| Medicare FFS Payment | Medicare Fee Schedule | Medicare Fee Schedule | Medicare Fee Schedule | |
| | - | | - | |
| ACO Bonus Payment that year? | No | No | Yes X% of Savings** | |

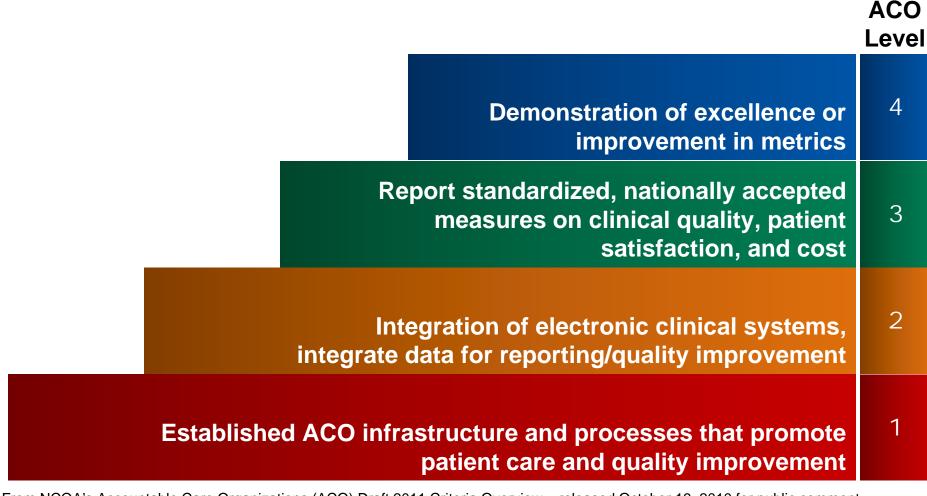
An organization must meet quality standards AND achieve cost savings to earn bonus payments

^{*} Actual costs for "assigned" population are less than pre-set expected costs based on risk-adjusted trends

^{**} PGP demonstration gave groups 80 percent of savings; actual split for ACOs to be determined

NCQA Draft ACO Scoring Levels

 Based on the organization's demonstrated capability to function as an accountable entity and achieve 1) improved quality, 2) increased patient satisfaction, and 3) lower per capita costs.



From NCQA's Accountable Care Organizations (ACO) Draft 2011 Criteria Overview - released October 19, 2010 for public comment

Before "ACO", there was "Clinical Integration"

- Clinical Integration directly addressed the Antitrust Problem
- Sherman Antitrust Act prohibits agreements among private, competing individuals or businesses that unreasonably restrain competition
- ■Physicians want to contract with payers through provider-controlled entities
- ■Options:
 - Merging of practices not preferred
 - Messenger model no negotiation/incentive
 - Direct contracting some win, most lose
 - ► Financial integration risk of loss/no opportunity
 - Clinical integration an achievable alternative permitting joint contracting

Clinical Integration: How do the FTC/DOJ define it?

"An *active* and *ongoing* program to evaluate and modify the clinical practice patterns of the physician participants so as to create a high degree of *interdependence* and *collaboration* among the physicians to *control costs* and *ensure quality*."

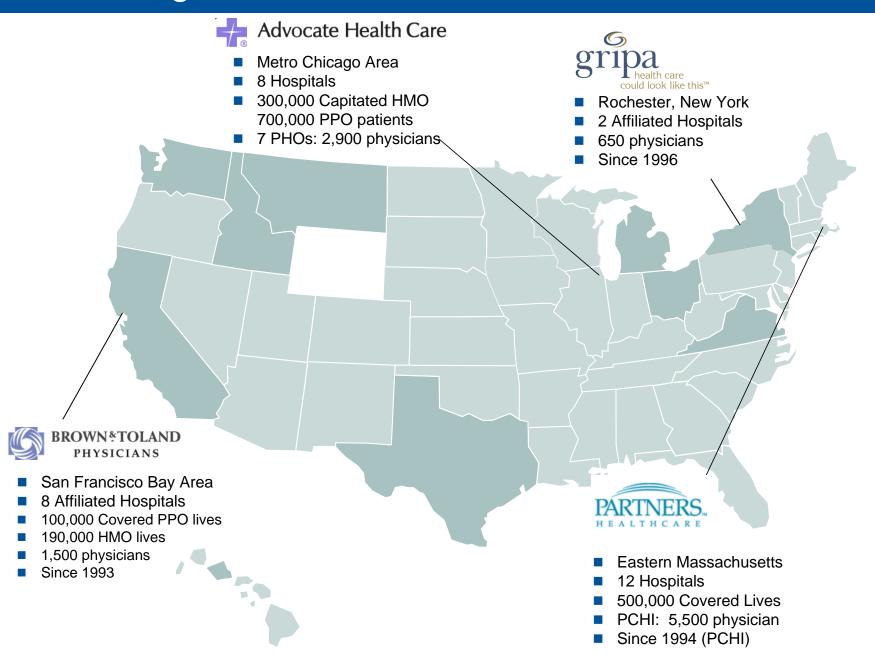
FTC/DOJ Statements of Antitrust Enforcement Policy in Health Care, #8.B.1 (1996) http://www.ftc.gov/bc/healthcare/industryguide/policy/statement8.htm

What the FTC looks for (no cookie-cutter approach):

- "The development and adoption of clinical protocols
- Care review based on the implementation of protocols
- Mechanisms to ensure adherence to protocols."
- "The use of common information technology to ensure exchange of all relevant patient data"

FTC/DOJ, Improving Health Care: A Dose of Competition Ch. 2, p.37 (July 2004).

Clinical Integration – Case Studies



GRIPA's Approach to Implementing CI:

Physician Committees

- Develop guidelines
- Monitor compliance

Care Management Team

Working more closely with physicians and their offices

Web Portal

- Include as much relevant clinical data as possible
- Store data in a central data repository

Clinical Decision Support System - Integrated With The Portal

- Improve quality at the point of care
- Report on conditions / guideline adherence / measurement

Additional IT Tools for Physicians

- Enhance workflow
- Improve quality at the point-of-care

GRIPA CI Committee Structure

Clinical Integration Committee (The CIC)

- ■Twelve member physicians (six PCPs or OB/Gyn and six specialists)
- Appointed for staggered three-year terms
- ■Overseeing the Clinical Integration ("Cl") Program
- ■Developing guidelines/measures used to monitor individual and network performance

Specialty Advisory Groups (SAGs)

- ■Each has representatives of all specialties affected by a guideline
- Discussion of diseases across specialties seen as positive experience by our physicians

Quality Assurance Council (QAC)

- ■16 member physicians
- ■Staggered one-year terms, by lottery
- ■Monitor the performance of the individual members on measures for guidelines
- Develop Corrective Active Plans if necessary

Improving Guideline Compliance - Using Electronic Tools

Alerts – at patient level

- Available to all physicians at Point of Care
- Display services patient is overdue for or beyond goal("Actionable Alerts")
- Updated as transactional data is received
- Physicians are able to provide feedback if a patient is mis-identified with a disease or has a contra-indication related to an alert

Outreach Reports – at practice/network levels

- Population report to look at all "actionable" items on all patients
- Filters allow physician to focus on a subset of population

Performance Reports

- Shared only with responsible provider(s)
- Dynamically updated
- Contains all measures approved for each guideline
- Used for case finding and to determine which providers need help
- Basis of Pay for Performance Program

Physician Achievement Report / Provider Top Level



GRIPA Connect Clinical Integration
Physician Achievement Report (PAR)

Provider:

Data last updated: 1/15/2009 Report Date: 1/20/2009

Performance Reporting for the Clinical Integration program is based on performance of the entire panel of participating physicians and provides incentives to work collaboratively to increase quality and efficiency. The Physician Achievement Report (PAR) informs each physician of his or her performance and how the physician contributes to the performance of the network.

Previous CI Quarter Comparisons CI Measure Your Current Change Target Performance Your Group GRIPA **GRIPA** Best Rate (%) from Prev Rate Patient Practice Network Physician (%) Qtr Your Rate Target Count Rate (%) Rate (%) Rate (%) 73.1 % 74.0 % 236 ⊕ Diabetes 73.8 % 68.3 % 300 81.9 % 80.0 % 1,026 71.2 % 887 **⊞** Hypertension

Note: Drill down to measure level by clicking on disease state

Please direct comments and questions to:

GRIPA Provider Relations 60 Carlson Rd Rochester, NY 14610

Phone: (585) 922-1525 Fax: (585) 922-0016 Email: gripa.network@rochestergeneral.org

Page 1 of 1

Physician Achievement Report / Provider Drill Down



GRIPA Connect Clinical Integration
Physician Achievement Report (PAR)

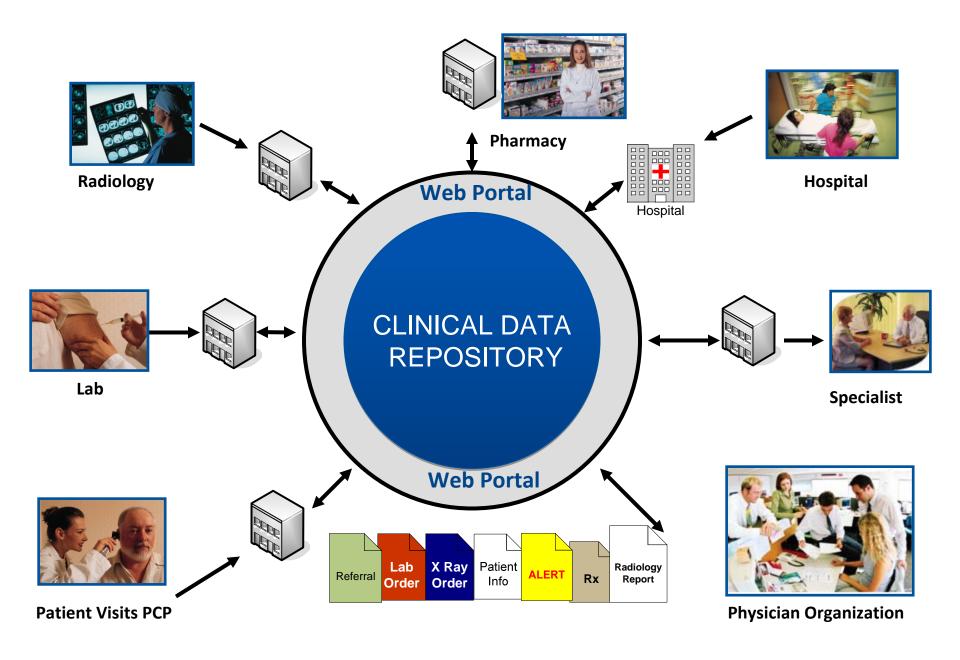
Provider:

Data last updated: 1/15/2009 Report Date: 1/20/2009

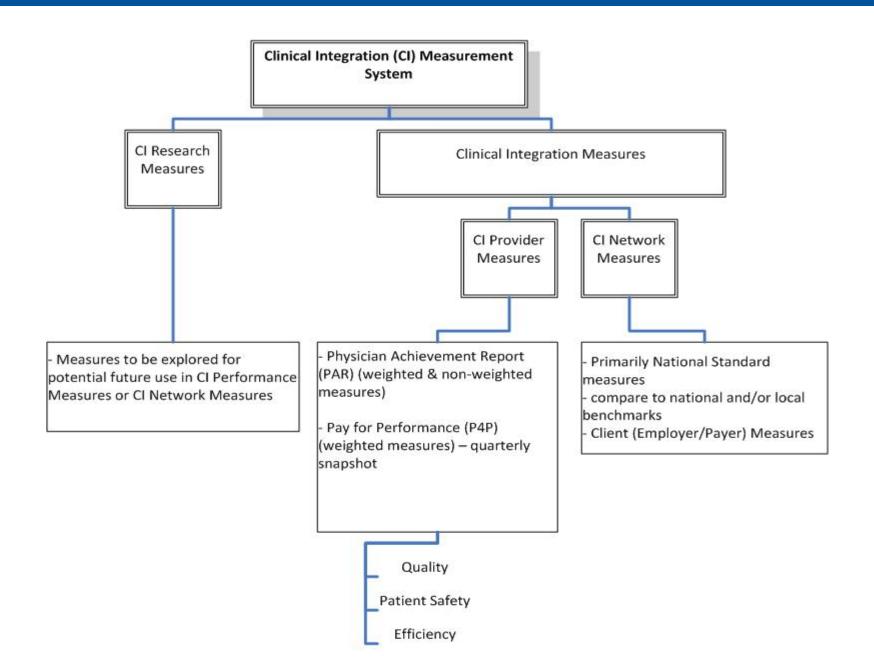
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| | | | | | | Previous (| Cl Quarter (| comparisons |
|--|--------------------------|----------------------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------------|-------------------------------------|
| CI Measure | Your Current Rate (%) | Change from Prev Qtr | Target Rate (%) | Performance Your Rate Target | Your Patient Count | Group Practice Rate (%) | GRIPA Network Rate (%) | GRIPA Best Physician Rate (%) |
| | | | | 0%100% | | | | |
| □ Coronary Artery Disease | 73.1 % | | 74.0 % | | 236 | | | |
| Lipid Panel or one of the following components (Triglycerides, HDL or LDL) in last 12 months | 76.7 % | +9.4 | 76.0 % | | 236 | 69.2 % | 51.9 % | 85.7 % |
| Most recent LDL result in the last 12 months < 100mg/dL | 74.8 % | -3.1 | 81.0% | | 159 | 75.8 % | 75.4% | 100.0 % |
| Most recent HDL result in the last 12 months > 40mg/dL | 66.0 % | -0.4 | 72.0 % | | 159 | 63.2 % | 62.9 % | 84.2 % |
| ∃ Diabetes | 73.8 % | | 68.3 % | | 300 | | | |
| >=2 A1cs in the last 12 months | 69.7 % | +5.9 | 65.0 % | | 300 | 51.2 % | 56.0 % | 89.5 % |
| Most recent A1c in the last 12 months < 7 | 72.9 % | -2.3 | 70.0 % | | 229 | 65.8 % | 56.0 % | 83.3 % |
| Lipid Panel or one of the following components (Triglycerides, HDL or LDL) in last 12 months | 84.0 % | +6.6 | 79.0 % | | 300 | 66.4% | 69.2 % | 94.1 % |
| Note: Drill down | to pati | ent le | vel b | y clicking o | n a me | easure | 9 | |
| Most recent Triglyceride result in the last 12 months < 150mg/dL | 72.1 % | -1.7 | 72.0 % | | 226 | 68.0 % | 64.4% | 85.0 % |
| Urine micralbumin in the last 12 months | 72.7 % | +4.1 | 60.0 % | _ | 300 | 54.4% | 47.1 % | 76.9 % |

Clinical Integration Model in Action



Sample CI Performance Measurement Categories



Potential data sources for measures

- Adjudicated claims data from payers 3-6 month lag
- Manual entry into registries labor intensive
- Hospital ADT (admission, discharge, transfer) current & available
- Hospital claims may be delayed
- Enterprise EMR
- aEMR(s) in provider offices multiple vendors
- Provider office electronic claims (direct/clearinghouse) multiple vendors
- Lab order entry
- Lab claims
- Lab results
- Imaging order entry
- Imaging claims
- Imaging results dictated text
- Provider office notes –dictated text
- Hospital admission/discharge notes dictated text
- Scanned images of office/hospital notes
- Prescription fill data from SureScripts/RxHub depends on PBM
- e-Prescription submission capture multiple vendors
- Electronic tracking of portal/EMR use logon, navigation
- Referral tracking system
- Patient satisfaction surveys
- CMS' Physician Compare and other consumer websites

Sample measures from hospital claims data only

- 3-day re-admission rate
- 30-day re-admission rate in CHF
- ACEI/ARB in CHF
- LV assessment in CHF
- Aspirin on arrival in AMI
- Antibiotic <6 hrs from arrival in community acquired pneumonia</p>
- Prophylactic antibiotic discontinued <24 hrs post-op.</p>
- Mortality index observed/expected
- LOS compared to GMLOS
- Foley catheter prevalence

May use at aggregate and individual provider levels, for some or all specialties

Sample measures from hospital claims data only:

% of all **TIA** admissions in the last 12 months that had during admission:

- MRI or CT of head
- ECG
- Carotid ultrasound
- MRI or CT of head AND an ECG AND a carotid ultrasound ('perfect care' measure)
- All additional CT/CTA/MRI/MRA tests ordered by a neurologist (appropriateness measure)

% of all **Syncope** admissions in the last 12 months that had during admission:

- ECG
- All CT/MRI/MRA tests ordered by a neurologist (appropriateness measure)
- No carotid doppler tests completed (appropriateness measure)
- No EEG tests completed (appropriateness measure)
- No carotid doppler tests AND no EEG tests completed (appropriateness measure)

Outpatient guidelines (measures from provider office claims & lab results)

- Allergic Rhinitis
- Asthma
- Back Pain, Acute, Chronic
- CAD & Other Atherosclerotic

Vascular Diseases

- Childhood Immunizations
- Cholelithiasis
- Colon Cancer, Screening & Surveillance
- COPD
- Depression, Major (Management)
- Depression, Major (Screening)
- Diabetes Mellitus, Adult, Pediatric
- Diverticulitis
- Deep Vein Thrombophlebitis
- Heart Failure
- Hyperlipidemia
- Hypertension
- Ischemic Stroke/TIA (Secondary Prevention)

- Kidney Disease, Chronic, End Stage
- Melanoma, Cutaneous
- Men (Preventive Care)
- Migraine Headache (Management)
- Neuropathic Pain (Management)
- Obesity (Management)
- Osteoarthritis/Degenerative Joint Disease Pain (Management)
- Osteoporosis (Management)
- Osteoporosis (Screening)
- Pain, Chronic
- Pediatrics (Preventive Care)
- Pharyngitis, Acute
- Prenatal Care
- Prostate Cancer (Management)
- Rheumatoid Arthritis (Management)
- TIA (Management)
- Urolithiasis
- Women (Preventive Care)

Sample measures from HIE portal use only

Numerator

Denominator

| # times provider views patient alert page | # of encounters during measurement period | | | | |
|---|--|--|--|--|--|
| # times provider responds to alerts | u | | | | |
| # times provider enters or corrects data | и | | | | |
| # times provider enters BP | и | | | | |
| # times provider enters BMI or weight | и | | | | |
| # times provider accesses e-prescribing application | и | | | | |
| # logons by provider | и | | | | |
| # logons by staff in provider office | и | | | | |
| # referrals generated (PCP)/accepted SCP) | и | | | | |
| # times provider accesses outreach reports | и | | | | |
| # times provider accesses performance reports (PR) | и | | | | |
| # times provider clicks to PR measure level | и | | | | |
| # times provider clicks to PR patient level | и | | | | |
| # times provider opens a critical message | # of critical messages delivered to provider | | | | |
| # of patients for whom Height is recorded at least once | # of patients attributed to provider | | | | |
| # patients (not) needing missing test alerts | и | | | | |
| # patients (not) needing preventive visit alerts | и | | | | |
| # patients with notation of advance directives | | | | | |
| # of denominator patients with advance directives | # patients with chronic disease or >64 | | | | |

Why is Clinical Integration Important?

Summary:

- Legal vehicle to negotiate
- Get physicians/hospital all practicing in similar way → creates efficiencies
- Key foundational step on path to becoming an ACO

How do you get there?

It's an Evolutionary Process...

Small steps leading to eventual big changes and gains...

Clinically Integrate a network

- Aligning quality goals
- Implement a shared data system/registry
- Measure change

Implement tools to understand your population and manage its risk

- Drug utilizations
- Financial trends
- Care management needs

Adopt best practices

- Measure change
- Manage resources against risk
- Continuously improve processes through insight into the data and experience

Population vs Risk Management

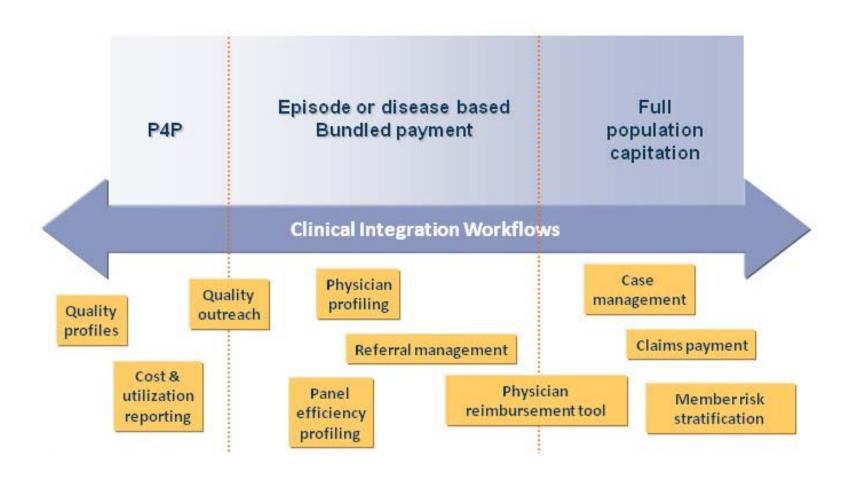
- Clinical Integration → collaboration to improve quality
 - ▶ Care Guidelines/Protocols
 - Care coordination to promote care efficiency and patient safety
 - Acting on gaps in care
 - Measuring improvement
- Accountable care → managing risk
 - Quality
 - Cost and Utilization
 - Reducing variations in care
 - ED Use
 - Imaging
 - IP Stays and length of those stays
 - Drug utilization
 - ...

Rules of the ACO Road

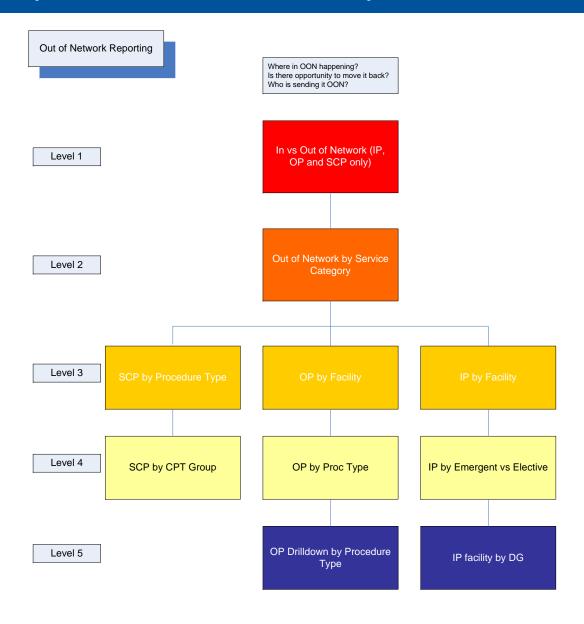
Only take risk for what you can manage

- What can you measure?
 - If you can't measure it, you can't effectively manage it
- What data do you have available?
 - □ To measure, you need data
- What tools do you have in place?
 - □ To measure consistently and accurately, you need tools!
- What can you influence?
 - All parties need to be aligned
 - To manage costs, you need to manage behaviors
- What incentives do you have in place?
 - Must be aligned
 - Must be the right incentives

Increased risk → More Data, More tools



With many levels of data to analyze....



Adherence to best practices must be tracked

Profiling and reporting

- PCPs & Specialists
 - Quality measures
 - Efficiency profiling

Facilities

- □ IP Usage (vs ED or Observation Stays)
- Length of Stay
- □ ED Usage (vs Urgent Care)
- Adherence to hospital pathways

Drug Profiling

- Generics
- Inefficient dosing

Leakage

Cost effective providers

Finding the Opportunities

Case and Disease Management

Risk stratification

- Probability of using IP services
- Future Medical Expense
- Multiple Co-morbidities
- Abnormal Lab Results
- Age/Gender

Frequency of Services

- Frequent ED use
- Multiple drugs
- Multiple providers

Disease Prevalence

Pre-cursor conditions (e.g. pre-diabetes, essential hypertension, obesity)

ACO Optimal Data and Algorithms

- To track measures for ACO, critical data components include:
 - Financial data
 - Clinical indicators/triggers
 - Developed from claims data
 - ICD9
 - CPT
 - Provider attribution
 - Hospital data IP and ED
- Optional data elements (extremely helpful but not deal breakers)
 - Lab results
 - Rx

ACO Reporting

Medical Expense PMPM Trend

- Determine reason for trend
 - □ Increased utilization
 - Increased intensity of services
 - Increased unit cost (fee schedule changes, out of network utilization)
 - Increased 'Illness Burden' of population

Out of Network Utilization

- What is going out of network?
- Can we bring it back in?
- Who is sending it out of network?

ACO Reporting – cont'd

Identify Underuse, Overuse and Misuse

- Underuse analyze quality indicators
 - Preventive services needed
 - □ Lab testing overdue
 - Medication non-compliance

Overuse

- Multiple lab tests by different providers
- □ ED usage for minor illnesses

Misuse

- MRI before X-ray for Low Back Pain
- Drug prescribing inefficiencies

ACOs - New Challenges, New Level of Analysis

- ACOs are about risk management which requires:
 - Consistent data sources
 - Consistent reporting
 - Constant analysis
 - To determine Actionable Items!!

Clinical Integration – What's in it For...

Hospitals?

- Enhanced linkage and alignment with physicians
- Facilitates implementation of quality improvement initiatives
- "Branding" consistency to patients and payers
- Expand physician leadership in clinical care redesign
- Improve revenue yield: pay-forperformance, global payments

Physicians?

- Access to electronic tools to enhance patient care efficiency
- ■Improve revenue yield: pay-forperformance, global payments
- Enhance market positioning, referrals, "preferred" network
- Enhanced satisfaction with clinical delivery model

Accountable Care Building Blocks



Lessons Learned & Latest Thinking on Clinical Integration/ACO

- Must be Physician led
- Takes time! Establish guidelines, measure and parameters to improve care and prove value!
- Establish strong infrastructure and IT for hospitals and physicians to:



- Efficiently gather, analyze, report and provide alerts based on clinical data and financial information in near real time
- Systems must support care givers by facilitating immediate high quality care, enabling follow up, and feedback
- Uniform metrics across the System to evaluate quality of care and cost effectiveness, across the population
- Establish one incentive system that physicians & hospitals control, understand, and that gets results
- Relentless focus on redesigning clinical care delivery across the continuum to find new ways of improving efficiency, service, and quality.

Deb Lange, MS

Senior Director, Solutions Architecture
Ingenix | Clinical Performance Solutions
deb.lange@ingenix.com
formerly: VP, Clinical Analytics and Performance Reporting, GRIPA,
Rochester, NY

Eric T. Nielsen, MD

Vice President
The Camden Group, El Segundo, CA
enielsen@thecamdengroup.com
formerly: EVP, CMO, GRIPA, Rochester, NY