

Making "Enhanced Use" of Health Information

Engelberg Center for Health Care Reform

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Needed Information to Improve Care: Byproduct of Electronic Information for Health Care



Research Variables

Age, Sex, Race/Ethnicity Smoking status

Health coverage

Diagnoses

Medications
Primary Prevention
Care Coordination
Secondary Prevention

Diagnostic test results

Vitals

Other health outcomes
Preventable adverse events

Medical Record Entry

65 YO White male Smoker

FFS Medicare + PDP

Type 2 diabetes

Avandia Flu shot

Referral: Eye Exam

Foot inspection & sensitivity tests

A1c: 7.5%

LDL: 100

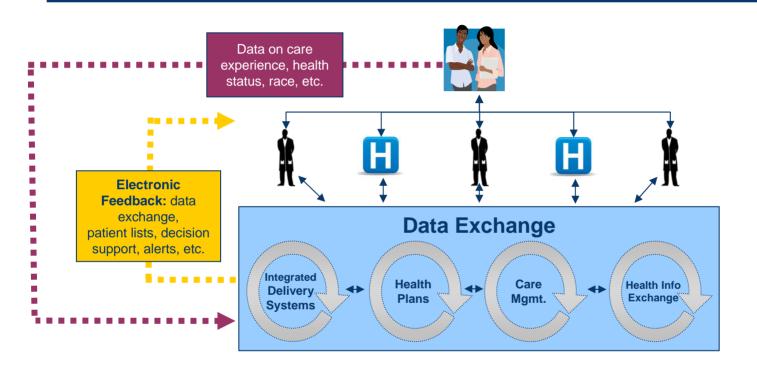
Blood Pressure: 140/89

BMI: 25%

ER admission for hypoglycemia



Data-Sharing to Support Better Decisions



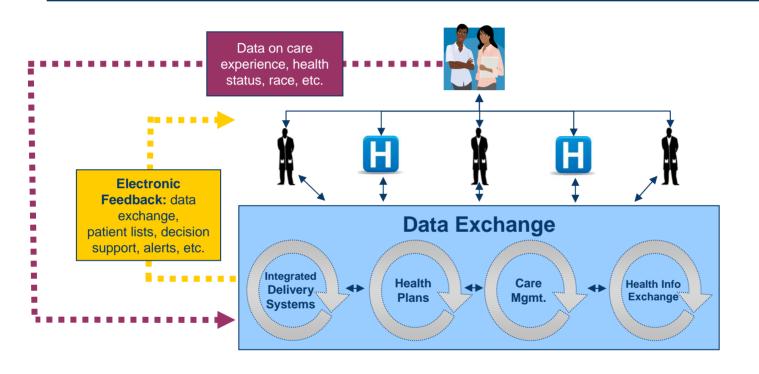


Recent Legislative Support for Enhanced Information on Health Care

	Quality	Safety & Health Surveillance	Comparative Effectiveness
PPACA	Center for Medicare and Medicaid InnovationACO Shared Savings Program	 Grants to support electronic public health surveillance National Oral Health Surveillance System 	Patient-Centered Outcomes Research Institute (2010)
ARRA	 "meaningful use" data standards and certification requirements Beacon SHARP 	HIT Policy Committee to consider national infrastructure needs for drug safety and biosurveillance	 Funding to develop data infrastructure for CER Federal Coordinating Council for CER
FDAAA		Sentinel active post- market drug surveillance system using electronic healthcare information	

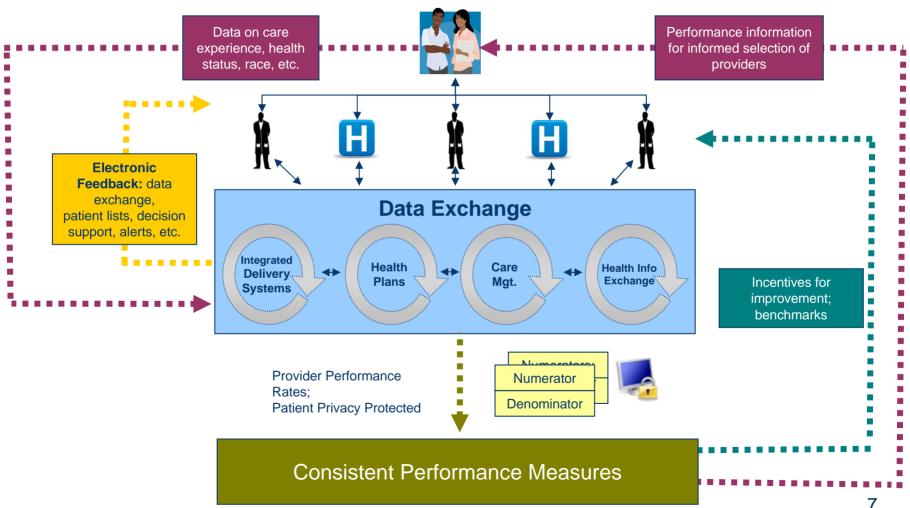


Data-Sharing to Support Better Decisions



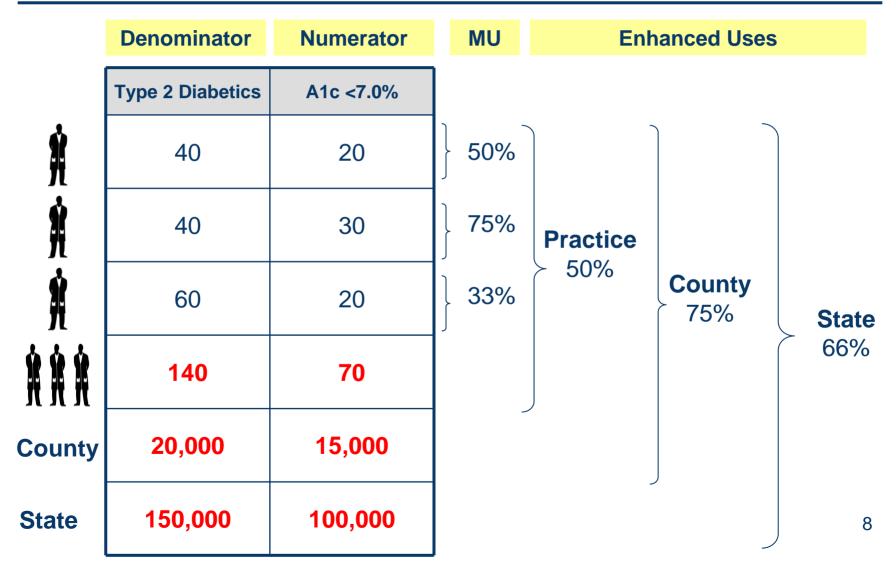


Data Sharing to Support Better Decisions ... And for Measuring and Improving Quality





Performance Measurement at Varying Levels of Summarization





Examples of Enhanced Uses of Health Information

Research Variables Question:

Is Avandia associated with increased risk of heart attack?

Age, Sex, Race/Ethnicity **Smoking status**

Health coverage

Question:

How does my physician's performance

compare to others

in my area, in

keeping A1c levels

below 7.0%

among patients with Type 2

diabetes?

Diagnoses

Medications

Primary Prevention

Care Coordination

Secondary Prevention

A1c test results Lipid test results Blood pressure

BMI

ER/Hospital admissions

Hypo/hyperglycemia

confounders

cost data

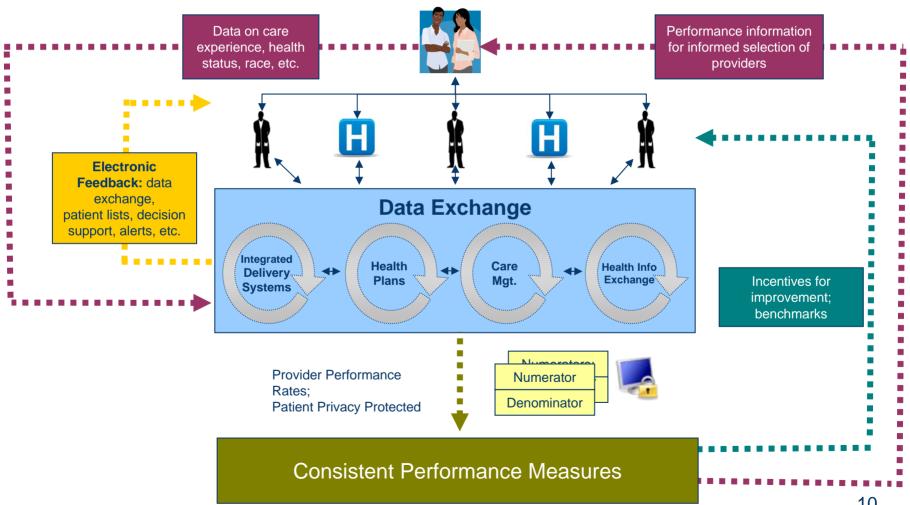
condition data

Utilization/Process data

Health outcome data

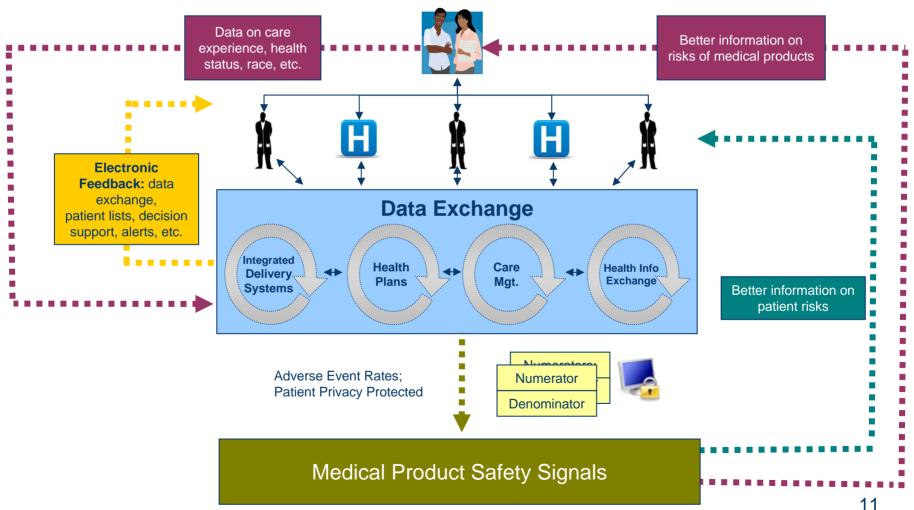


Data Sharing to Support Better Decisions ... And for Measuring and Improving Quality



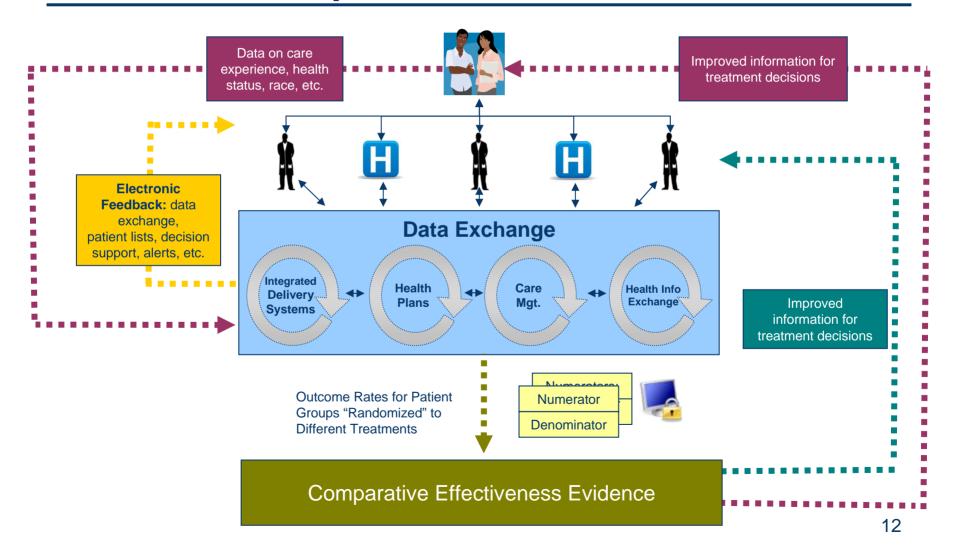


Data Sharing to Support Better Decisions ... And for Public Health Surveillance





Data Sharing to Support Better Decisions ... And for Comparative Effectiveness Evidence





Distributed Health Information



hospitals



physicians



claims



EHRs



registries



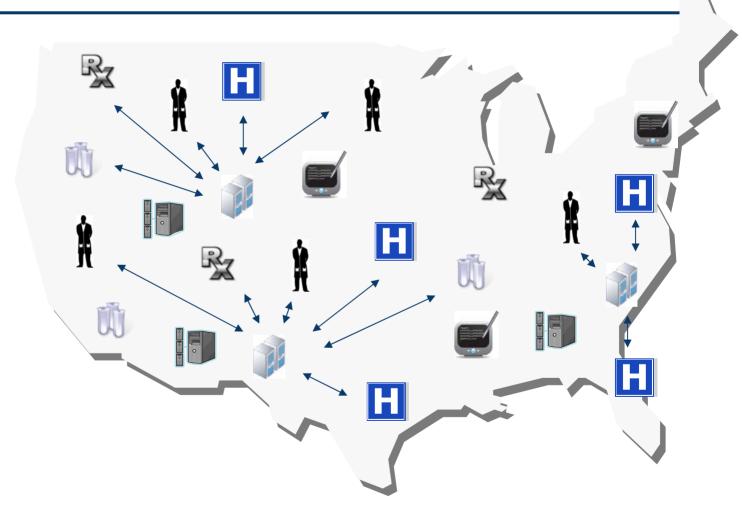
pharmacies



clinical labs



PHRs



Reinforcing Financial Support

High-Value Health Care System

=

Capacity to Generate
Knowledge that is
Actionable

+





- HIT Meaningful Use
- Quality Reporting Programs
 - Payments for Reporting
 - E-Prescribing
- Provider Payment Reform for Increased Value
 - Bundled payments, medical homes, other provider payment reforms through Innovation Center
 - Accountable Care Organizations
- Research and evaluation grants, other public and private funding for comparative effectiveness research and post-market surveillance

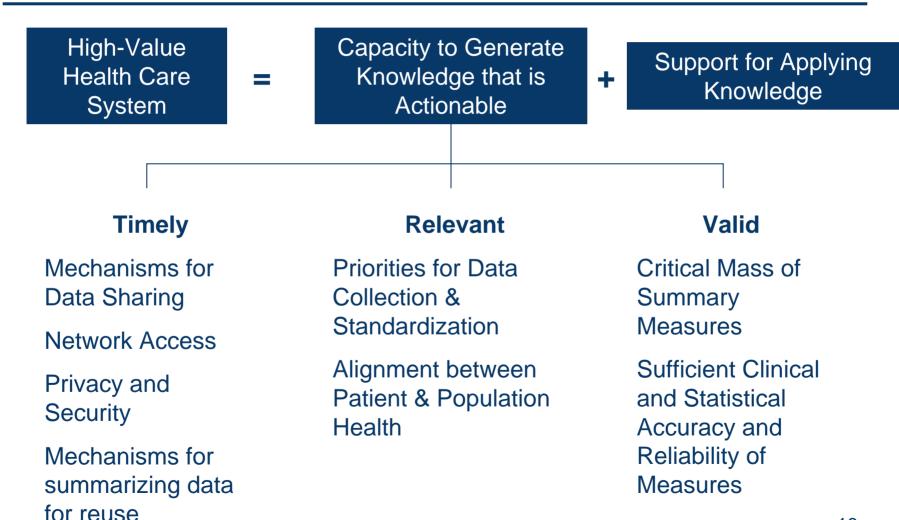


Getting There from Here: Improving Clinical Data Systems

_	Quality Measurement and Reporting	Safety Surveillance	Comparative Effectiveness Research
Administrative Data	# of A1c tests ordered	Appropriate testing for patients using high-risk medications	
Administrative + Specific Additional Clinical Data	% Type 2 diabetics with A1c < 7.0%	Medications prescribed when contraindicated by allergy list	Episode-based resource use linked to quality measures for common medical and common surgical conditions
Electronic & Personal Health Records	A1c value + daily blood glucose deviations	Preventable hospital admissions due to adverse drug event	Quality of life and functional outcomes for common conditions (e.g. AMI, hip replacement, diabetes)



Key Challenges & Policy Questions





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