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Registries and Quality Measures

5) In the context of meaningful use care goals and objectives, what do you see as the most effective, efficient process for arriving at a set of measures that would apply to all or more specialties?

The membership of the Physician Consortium for Performance Improvement® (PCPI) and the established processes of the PCPI for developing performance measures render the organization uniquely positioned to arrive at a set of measures for all specialties.

The PCPI includes more than 100 national medical specialty societies (see attached membership listing) and already has developed more than 200 measures across 40 clinical areas. When measures were needed by CMS for the PQRI program, the PCPI, working with collaborating organizations, developed measures suitable for that implementation program. PCPI now is focusing its efforts on:

- Assuring every specialty has clinically-relevant measures that meet multi-stakeholder objectives (each measurement set to include process, composite, and outcomes measures as appropriate).
- Developing the needed e-specifications so that measures can be integrated in EHR systems.
- Testing the query and reporting capabilities in practice through an “incubator group” called Cardio-HIT (summary attached) and supporting other incubator groups.

Sample of clinical areas represented in PCPI portfolio of measures:

Acute otitis externa / otitis media with effusion
Adult diabetes
Anesthesiology and critical care
Atrial fibrillation and atrial flutter
Asthma
Care Transitions
Chronic kidney disease
Chronic obstructive pulmonary disease
Chronic stable coronary artery disease
Chronic wound care
Community-acquired bacterial pneumonia
Emergency medicine
End stage renal disease – Adult
End stage renal disease – Pediatric
Endoscopy and polyp surveillance
Eye care
Gastroesophageal reflux disease
Geriatrics
Heart failure
Hematology
Hepatitis C
HIV/AIDS
Hypertension
Major depressive disorder – Adult
Major depressive disorder – Child & Adolescent

Melanoma
Nuclear medicine
Obstructive sleep apnea
Oncology
Osteoarthritis
Osteoporosis
Outpatient parenteral antimicrobial therapy
Palliative care
Pathology
Pediatric acute gastroenteritis
Perioperative care
Prenatal testing
Preventive care and screening
Prostate cancer
Radiology
Rheumatoid arthritis
Stroke and stroke rehabilitation
Substance abuse

Adult influenza immunization*; Colorectal cancer screening*; Problem drinking*; Screening mammography*; Tobacco use*

*Asterisk indicates performance measures included in the preventive care and screening measures collection.

4) What are the benefits, impediments to participating in registries?

Currently, registries receive data from several different sources, including manual entry of data into a web portal. If we envision a registry that receives data from EHRs,

Potential benefits include:

- Assistance to sites re: integration of measures and reporting of measures as well as using data to improve practice.
- A forum for dialogue among physician participants to share issues and best practices.
- Physician practices receive measurement data from their EHR for rapid action but also timely benchmarking reports from the registry.

Current impediment:

- Lack of a widely used standard for exporting data from an EHR to a registry.

8) How are data elements captured and quality measures defined?

The PCPI suggests comprehensive tracking (sample table below) to assure that clinically-relevant measures supported by many stakeholders are developed, specified for EHR integration, tested, and that required functionalities exist.

		PCPI Clinically Relevant Measure / NQF-endorsed® or in Process	Level I and II Specs Available	EHR Vendor/ Physician User Review	Incubator Group Testing	Queryable Fields and Data Coded
Data Elements	Process	√ / √	√	√	√	Outstanding: RxNorm, NDC automatic population of ejection fraction
	Intermediate Outcome					
	Outcome					
	Cost/ Utilization					
	Bundle/ Composite					
	Patient Experience					

Once measures are defined, Level I and Level II EHR specifications are developed as follows:

Level I EHR Specifications

- Describe measure data elements, logic and calculation
- Explicit detail regarding intent of measure
- Human readable

Three components:

- Identification of data elements, including context, relevant code sets, and corresponding code lists
- Visual representation of measure logic (flow diagram)
- Mathematical calculation

Level II EHR Specifications

- For use by software vendors to integrate measure specifications into system

The Physician Consortium for Performance Improvement®
Membership
As of September 30, 2009

Chair

Bernard M. Rosof, MD, MACP

Vice Chair

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National Medical Societies

American Academy of Allergy, Asthma, & Immunology	American Gastroenterological Association
American Academy of Child & Adolescent Psychiatry	American Geriatrics Society
American Academy of Cosmetic Surgery	American Institute of Ultrasound in Medicine
American Academy of Dermatology	American Medical Association
American Academy of Facial Plastic & Reconstructive Surgery	American Medical Directors Association
American Academy of Family Physicians	American Osteopathic Association
American Academy of Home Care Physicians	American Psychiatric Association
American Academy of Hospice and Palliative Medicine	American Society for Aesthetic Plastic Surgery
American Academy of Neurology	American Society for Clinical Pathology
American Academy of Ophthalmology	American Society for Dermatologic Surgery
American Academy of Orthopaedic Surgeons	American Society for Gastrointestinal Endoscopy
American Academy of Otolaryngic Allergy	American Society for Therapeutic Radiology & Oncology
American Academy of Otolaryngology-Head and Neck Surgery	American Society of Abdominal Surgeons
American Academy of Pain Medicine	American Society of Addiction Medicine
American Academy of Pediatrics	American Society of Anesthesiologists
American Academy of Physical Medicine and Rehabilitation	American Society of Cataract and Refractive Surgery
American Academy of Sleep Medicine	American Society of Clinical Oncology
American Association for the Study of Liver Diseases	American Society of Colon and Rectal Surgeons
American Association of Clinical Endocrinologists	American Society of Echocardiography
American Association of Electrodiagnostic Medicine	American Society of General Surgeons
American Association of Gynecologic Laparoscopists	American Society of Hematology
American Association of Hip and Knee Surgeons	American Society of Neuroradiology
American Association of Neurological Surgeons/Congress of Neurological Surgeons	American Society of Pediatric Nephrology
American College of Allergy, Asthma and Immunology	American Society of Plastic Surgeons
American College of Cardiology	American Society of Retina Specialists
American College of Chest Physicians	American Society of Transplant Surgeons
American College of Gastroenterology	American Thoracic Society
American College of Emergency Physicians	American Urological Association
American College of Medical Genetics	College of American Pathologists
American College of Medical Quality	Infectious Diseases Society of America
American College of Obstetricians and Gynecologists	International Spine Intervention Society
American College of Occupational and Environmental Medicine	National Medical Association
American College of Physician Executives	North American Spine Society
American College of Physicians	Renal Physicians Association
American College of Preventive Medicine	Society for Cardiovascular Angiography and Interventions
American College of Radiation Oncology	Society for Maternal-Fetal Medicine
American College of Radiology	Society for Vascular Surgery
American College of Rheumatology	Society of Critical Care Medicine
American College of Surgeons	Society of Hospital Medicine
	Society of Interventional Radiology
	Society of Nuclear Medicine
	Society of Thoracic Surgeons
	The Endocrine Society

Health Care Professional Organizations

American Academy of Audiology
American Academy of Physician Assistants
American Association of Oral and Maxillofacial Surgeons
American Chiropractic Association
American Dental Association
American Dietetic Association
American Nurses Association
American Occupational Therapy Association
American Optometric Association
American Physical Therapy Association
American Podiatric Medical Association
American Psychological Association
American Speech-Language-Hearing Association
National Association of Social Workers

The PCPI membership also includes the American Board of Medical Specialties and Member Boards, twenty-eight State Medical Societies and several Federal health care agencies.

Cardio-HIT Incubator Group

A Brief Summary

Cardio-HIT is a physician-led collaborative model for improving cardiovascular care by using evidence-based, nationally recognized, clinical performance measures integrated into electronic health record systems (EHRs).

Participating Sites: Different specialties, practice sizes and EHRs products in use

Site Name	Location	EHRs product
Fox Prairie Medical Group Primary Care	St. Charles, IL	NextGen
Midwest Heart Specialists Cardiology	Lombard, IL	Hybrid EHR
North Ohio Heart Center Cardiology/Primary Care	Lorain, OH	Allscripts Touchworks™
Northwestern Medical Faculty Foundation <i>(Phase I only)</i>	Chicago, IL	Epic
Physicians Health Alliance (PHA) Primary Care	Scranton, PA	GE Centricity
University of Pittsburgh Medical Center (UPMC) Primary Care	Pittsburgh, PA	Epic

*Sites selected based on 4+ years experience with EHRs

Status

- ACC/AHA/PCPI Coronary Artery Disease and Heart Failure measures
 - NQF-endorsed™
 - Included in CMS PQRI and EHRs demo
- Mapped data elements into five different EHRs products
- Resolved implementation issues
- Submitted patient de-identified data to warehouse
- Made benchmarking reports available to sites
- Audited data
- Analyzed exception reporting
- Analyzed location of data in EHRs

Funding

Phase I: Physicians' Foundation for Health System Excellence

Phase II: Agency for Healthcare Research and Quality

Contacts (Site leads and IT experts)

Principal Investigator: Karen Kmetik, PhD, American Medical Association

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PHA: Carmen Brutico, MD; Karen Murphy, PhD; Pat Gallacher

UPMC: Gary Fischer, MD; David Pietrzyk

Northwestern: Steve Persell, MD; Jason Thompson