The Importance of Continuous Quality Improvement in Pediatric Practice

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Disclosures

- I have no relevant financial relationships with the manufacturers of any commercial products and/or providers of commercial services discussed in this CME activity.

- I do not intend to discuss an unapproved/investigative use of a commercial product/device in my presentation.
Changes in Practice

- Few pediatric practices are performing continuous quality improvement (CQI) as part of their daily activities

- This presentation will discuss why and how to implement CQI in your practices leading to
  - Higher quality of care for your patients
  - Improved satisfaction for you and your staff
Outline

- Why CQI
- Examples of QI in practices
- How to implement CQI
- AAP’s role
- Engaging families
- QI Collaborative networks
- Improvement partnerships
- Payment
CQI (kŏn-tin'yū-ŭs kwahl'i-tē im-prūv'mĕnt)

Noun 1. The daily use of QI methods as a regular part of practice engaging all practice staff, constantly measuring structure, processes, outcomes against best practices (benchmarking), moving from one QI project to the next, pursuing the goal of “The right care for every child every time”
Why CQI?

- Significant variations in quality of care provided to pediatric patients
  - Leading to substandard care for some
- Affordable Care Act “Triple Aim”
  - Improve individual experience
  - Improve population health
- Control inflation of per capita costs
Why CQI? (cont.)

- Accountable Care Organizations
  - Value-based care instead of volume-based care
- Optimal care to prevent unnecessary illnesses, office and ED visits, hospitalizations, complications of chronic illnesses
- Patients’ expectations (consumerism)
- It’s the right thing to do!
IOM Dimensions of Care

- **Safe** – avoiding injuries to patients from care intended to help them

- **Effective** – providing services based on scientific knowledge to all who could benefit; refraining from providing services to those not likely to benefit

- **Patient-centered** – providing care that is respectful of/responsive to individual patient preferences, needs, values,
  - Ensuring patient values guide all clinical decisions
IOM Dimensions of Care (cont.)

- **Timely** – reducing waits/ harmful delays for both those who receive and those who give care
- **Efficient** – avoiding waste, in particular waste of equipment, supplies, ideas, energy
- **Equitable** – providing care that does not vary in quality because of personal characteristics such as gender, ethnicity, geographical location, and socioeconomic status
IOM Old v. New Rules (Top Ten)

Old
1. Care based on visits
2. Professional autonomy drives variability
3. Professionals control care

New
1. Care based on continuous healing relationships
2. Care customized based on patient needs and values
3. Patient is source of care
IOM Old v. New Rules (Top Ten)

Old

4. Information is a record
5. Decision-making based on training, experience
6. “Do no harm” is individual responsibility

New

4. Knowledge is shared, information flows freely
5. Decision-making is evidence-based
6. Safety is system priority
IOM Old v. New Rules (Top Ten)

Old
7. Secrecy is necessary
8. System reacts to needs
9. Cost reduction sought
10. Preference given to professional roles over system

New
7. Transparency is necessary
8. Needs are anticipated
9. Waste continuously decreased
10. Cooperation among clinicians a priority
Examples of QI Projects From *Pediatrics* Quality Reports

- Improved Antibiotic Prescribing for Community Acquired Pneumonia  
  – Vol. 131 #5

- The ONE Step Initiative: QI in a Pediatric Clinic for Secondhand Smoke Reduction  
  – Vol. 132 #2

- Improving Screening for Diabetes in a Pediatric Cystic Fibrosis Program  
  – Vol. 132 #2

- Depression Screening in Adolescents with Type 1 Diabetes  
  – Vol. 132 #5
Examples of QI Projects from “Pediatrics” Quality Reports

- Central Line Maintenance Bundles and CLABSIIs in Ambulatory Oncology Patients
  - Vol. 132 #5

- Improving Immunization Rates in Hospital-Based Primary Care Practices
  - Vol. 133 #4

- Effectiveness of an Asthma Quality Improvement Program Designated for Maintenance of Certification
  - Vol. 134 #1
How to Perform QI Projects

- Measure, Measure, Measure
- Benchmark best practices
- Develop and use registries and quality measures regularly
- Identify your team
- Leadership steps for successful change
- Understand the “Model for Improvement”
- Initiate Plan-Do-Study-Act cycles of small changes
“You can’t manage what you don’t measure”

Program EHR system to measure important data
- Well-child visit rates, screening rates, immunization rates, chronic illness visits, referrals, imaging, lab tests

Review data on a regular basis, at least Q 3 months
- To develop information
- Use it to determine QI projects
Benchmark Best Practices

- Start with evidence-based clinical practice guidelines

- Ideal goals
  - 100% for recommended procedures
  - 0% for non-recommended procedures

- Best practices
  - Published rates in literature

- Realistic goals
  - Determine gap between your practice’s rates, best practices
  - Select reachable target
    - 20% improvement
Registries

- Registries should be generated automatically by your EHR system
- Age, gender of ALL patients in your practice
- List by type of insurance
  - Medicaid, CHIP, commercial
- Lists of patients with chronic illnesses
- Individual immunization rates
- Program registry so that system automatically develops reminder/recall systems
Identify Your Team

- Engage right people
- Participation builds buy-in
- All staff involved in some manner
  - Front-line workers have knowledge of process, “work-arounds”
- Start by identifying key stakeholders – usually receptionists and nurses
Successfully Leading Change

- **Ready** (communicate, communicate)
  - What will change, what will stay the same
  - How/when individual will be affected
  - Clear vision

- **Willing**
  - Understand: “What’s in it for me?”
  - Involve stakeholders in change process
  - Personal fulfillment, sense of accomplishment
Successfully Leading Change (cont.)

- **Able**
  - Staff have received necessary info and training
  - Necessary tools, technology, processes available
  - Necessary TIME available
  - Continued coaching of skills/behaviors

- **Celebrate successes**
Model for Improvement

- What are we trying to accomplish?
- How will we know that change is improvement
  - All improvement requires change, but not all change results in improvement
- What changes can we make that will lead to improvement?
PDSA Cycles of Small Change

- **Plan:** Always include prediction
  - Measurable objective, when, by whom
- **Do:** Execute change; pick start date
- **Study:** Most important step, often overlooked
  - Did my prediction hold?
  - What assumptions need revision?
- **Act:** Adapt (modify), adopt (incorporate change as routine process), abandon (if unsuccessful)
Available Measures

- **Structure:** Organization of the practice
- **Process:** Activities of the practice *(easy)*
- **Outcomes:** Changes in patient’s health status *(difficult)*
- **Measures for accountability:** Not well accepted by physicians
- **Measures for improvement:** More likely to be accepted
Available Measures (cont.)

- Child Health Insurance Reauthorization Act (CHIPRA) of 2009 established Pediatric Quality Measurement Program by Agency for Healthcare Research and Quality
  - Developing measures

- National Committee on Quality Improvement (NCQA) HEDIS measures

- National Quality Forum (NQF), NICHQ and CHA endorse measures

- Many subspecialty societies and children’s hospitals have developed measures
Quality is integral to the day-to-day practice of every pediatrician

- AAP Quality Mission: Every child gets the right care every time
AAP Model for Quality

Setting the Standard for Quality

Improving Quality

Measuring and Reporting Quality

Advocating for Quality Payment for Members

Identify Best Practice

- Policy
- Evidence-based Recommendations

Members

Content Expert

Educate

EQIPP

Quality Measures

Private Payers (e.g. BCBS)

Private Payers (e.g. BCBS)

SCOQIM

MIG

New Coding

AMA

Advocacy

State

Federal

Improve

CAQI

Test

QuIIN

MOC Part IV

CHIPRA

State Demonstration Project (SC, FL)

CHIPRA

AHRQ

American Academy of Pediatrics
DEDICATED TO THE HEALTH OF ALL CHILDREN®
Increased Member Engagement/AAP Offerings

- 363 COQIPS members
  - 106 new since January
- 547 QuIIN participant members
  - 182 hospitalists/122 hospitals
- CQN: 6 chapters, 103 practices, 600 providers
- MOC Projects: 49
- 8 EQIIPP courses; 3,400 enrollments
- MCHB grant/AAP National Coordinating Center for epilepsy launched
  - New Mexico pilot underway
Courses Providing MOC Part II Opportunity

- PREP®: ID
- DB:PREP®
- PREP® The Course
- Practical Pediatrics Course
- PREP®:EM
- Practical Pediatrics Course
- PREP® The Course
- NCE: Pediatrics for the 21st Century
Education in Quality Improvement for Pediatric Practice (EQIPP)

- Online Quality Improvement CME Program
- Launched in 2002
- Robust quality improvement educational program
  - Evidence-based
  - Translates research into practice
  - Weaves QI principles (Model for Improvement) with clinical content
  - Interactive and action oriented
- Meets Maintenance of Certification requirements
- Member benefit at no charge
Engaging Physicians in Practice

- Quality Improvement Innovation Networks
  - Total QuIIN membership: 423
  - Practice Improvement Network
    - 298 pediatricians from 265 practices
  - Value in Inpatient Pediatrics Network
    - 115 pediatricians from 85 hospitals
  - Others (including specialists): 29

- Meets MOC requirements
Current QuIN Project Examples

- Genetics in Primary Care Institute
  - 14 primary care practices identifying core components to include in family history
  - Pilot for QIDA system
- Quality Measures
  - AHRQ-CMS CHIPRA PMCoE
    - Feasibility, reliability of ADHD measures
  - Center for Advancement of Pediatric Quality Measures
    - Phone interview
    - Measure creation for children with asthma ED visits
- CHIPRA FL Pediatric Medical Home Demonstration
  - Outcomes include more toddlers being screened at 24-months, asthma control assessment, action plan
- Comparison of Immunization QI Dissemination Strategies
  - Immunization coverage of children 3 – 18 months
Build Chapter Capacity to Improve Child Health Care and Outcomes

Optimal Asthma Care

- CQN Pilot
- CQN Phase 2
- Goal
CQN2 – Key Outcomes

- 49 CQN2 practices contributed to 16 months of data collection

- 13,633 patient encounters were collected electronically on 14 asthma-related measures (as of December)
  - 100% of CQN2 leaders would recommend participation in CQN project to their peers
  - 90% said participation led to considerable development of leadership skills, ability to run formal learning collaborative
Leveraging EHRs to Accelerate QI

Recent HIT Activities

- Comment on Meaningful Use Stages 2 and 3
  - Stage 2 focuses on advanced clinical processes
  - Stage 3 recommendations build upon stages 1 and 2

- Web service
  - Exploring strategy to support management of AAP content through web service for point-of-care clinical decision support with Bright Futures
AAP Maintenance of Certification (MOC) Portfolio Program

- AAP authorized by ABP to review, approve proposals for Part 2, Part 4 MOC
- AAP Quality Cabinet oversees MOC Portfolio Program
- Practices obtain, complete, submit application forms to Jill Healy, manager, Quality Improvement and Certificate Initiatives
- Quality Cabinet reviews applications
- If approved, practices provide Quality Cabinet ongoing reports
- No charge for AAP members
AAP QI Project Dissemination Strategy

- Hub and Spoke model
  - AAP National interacts with districts and chapters to disseminate QI knowledge and projects

- First meeting – Atlanta, Jan. 2014 – 2 days
  - 60+ attendees
  - Experts from AAP, Cincinnati Children’s Hospital, Cleveland Clinic Children’s Hospital, Children’s Healthcare of Atlanta

- Theoretical, practical presentations on QI, including “hands on” exercises
ABP Performance Improvement Modules (PIMs)

- Web-based tools that enable pediatricians to implement improvements in clinical care using QI methods
- PIMs provide 20 credit points towards Part 4 activities
- To access information re PIMs
  - abp.org/abpwebsite/moc/performanceinpractice/approvedprojects/pims.htm
Engaging Families

- Engaging families in QI projects is highly recommended by QI experts and organizations.

- Engaging families leads to:
  - Better design of QI projects as families can advise what will work for them.
  - Improved physician communication skills, true family-physician partnership.
  - Improved transparency, trust by families.

- CQIPS has found addition of a family member to be very valuable.
QI Collaborative Networks

- Allow pediatricians to learn from experts each other's successes, failures in QI projects
- Provide infrastructure support
- Can be regional or national
- Can be face-to-face (time consuming and expensive) or remote via teleconference
- Provide sufficient number of patients with rare conditions to measure results
Examples of QI Collaborative Networks

- AAP Chapter Quality Network (CQN)
- AAP Quality Improvement and Innovation Network (QUINN)
- National Institute for Children’s Health Quality (NICHQ) QI collaborative projects
- Pediatric Research in the In-patient setting (PRIS)
- Vermont Oxford Network (VON)
- Children’s Hospital Association Quality Transformation Network
Examples of QI Collaborative Networks

- Cystic Fibrosis Foundation Care Center Network
- ImproveCareNow (GI)
- Joint Council on CHD National Pediatric QI Collaborative (NPC-QIC)
- Pediatric Rheumatology Care and Outcomes Improvement Network (PR-COIN)
- Vermont Child Health Improvement Project (V-CHIP)
National Improvement Partnership Network: State-Based QI Collaboratives

- 15 AAP chapters working with state public health departments, Medicaid, Academic Institutions, Healthcare Delivery Systems, Advocacy Groups, MCOs, Private Insurers, to improve preventive care/care for children with asthma, ADHD, ASD, mental/behavioral health, obesity
  - Vermont, Utah, New Mexico, Washington DC, Arizona, Minnesota, Ohio, Oregon, New York, Maine, Indiana, Iowa, Idaho, Missouri, New Jersey
Payment for QI Implementation

- QI project implementation physicians, staff time reduces time available to see patients
- Payment for these activities (in some form or other) critical to their success, practices’ financial solvency
- Represents shift from volume-based to value-based care
Conclusion

- CQI is necessary, requires significant change in how care is delivered
- CQI and practice transformation require hard work but are ultimately rewarding for patients, physicians, staff
- Many tools, resources, organizations available to help
- You CAN do it!
The time to start is next Tuesday.

– Don Berwick, former Administrator of the Centers for Medicare and Medicaid Services
Reference and Resources


- [www.AAP.org](http://www.AAP.org) 
  - Click on Practice Transformation, then Quality Improvement and Safety; also EQIPP, CQN and Digital Navigator

- [www.ABP.org](http://www.ABP.org)

- [www.NICHQ.org](http://www.NICHQ.org)

- Institute for Healthcare Improvement
  - [www.IHI.org](http://www.IHI.org)

- Institute for Patient and Family Centered Care
  - [www.ipfcc.org](http://www.ipfcc.org)