Objectives

- Describe recent milestones in quality improvement (QI) practice
- Understand the fundamentals of quality improvement
  - Recognize need for improvement
  - Develop aim statement
  - Identify/prioritize change ideas
  - Test/measure changes
    - Data sources/tools to support QI projects
- Identify differences in data collection for population health assessment/planning vs. quality improvement
  - Consider opportunities for integration
Why focus on QI?

- (Pediatric) health care varies significantly across providers (delivery system) and among communities (population health)

- Pediatric and public health professionals strive to provide high quality, evidence-based care to improve individual and population health outcomes

Objectives/Agenda:

- Describe recent milestones in quality improvement practice (1980s-2000s)

- National Improvement Partnership Network (NIPN: est. 2009)
NIPN & Improvement Partnerships (IPs)

- **IP**: A durable, regional collaboration of public and private partners that uses measurement-based efforts and a systems approach to improve the quality of children’s health care.
- **NIPN**: A network of states that have developed IPs to advance quality and transform health care for children and their families.

Why are States Developing Improvement Partnerships?

- Investments in improving the health care of children
- Recognition and embracing the local expertise – “all improvement is local”
- Innovation and success in the State is often not connected nor broadly disseminated, limiting the impact on child health outcomes
What Do Improvement Partnerships Do?

- Develop and test tools, measures, and strategies
- Serve as a resource for improvement assistance
- Translate knowledge through engagement of national and local experts
- Disseminate findings, spreading successful approaches and informing policy
- Serve as convener, an “honest broker”
- Provide opportunities for pediatricians to fulfill Maintenance of Certification (MOC) Part IV requirements

Convener for the States
- Sharing, problem solving and connecting states/regions
- Repository for tools, materials, speakers
- Technical assistance/Mentorship
- Advisory to federal government and other national initiatives
- Scholarship
- Shaping funding opportunities
Where are they located?

- **AAP Chapter**
  - Arizona, Iowa*, Minnesota, Oregon, Rhode Island, West Virginia
- **Medicaid**
  - Connecticut, Michigan
- **Department of Health**
  - New York, Ohio, Washington
- **Academic Institution**
  - Indiana, Iowa*, New Mexico, Oklahoma, Oregon, Utah, Vermont
- **Children’s Hospital**
  - District of Columbia

*Iowa’s IP is a partnership between the Iowa chapter of the AAP and the University of Iowa*
Vermont Department of Health

Objectives

- Describe recent milestones in quality improvement practice
- Understand the fundamentals of quality improvement
  - Recognize need for improvement
  - Develop aim statement
  - Identify/prioritize change ideas
  - Test/measure changes
    - Data sources/tools to support QI projects
- Identify differences in data collection for population health assessment/planning vs. quality improvement
  - Consider opportunities for integration
Three-Legged Stool: Public Health
(Gordon & Wyon, 1951)

- Disease-oriented PH
  - Control a specific condition/disease within population

- Services-oriented PH
  - Ensure health-related services reach those in need

- Community-oriented PH
  - Identify serious, frequent & preventable CODs & illness
  - Address these PLUS community’s priorities
  - Work in close collaboration with the community
Three-Legged Stool (*Barondess, 1991*)

- **Academic Medicine**
  - Teaching
  - Research
  - Patient Care
- **Medicine in Society**
  - Access
  - Cost
  - Quality

Three-Legged Stool: Data Collection

- **Academic Medicine**
- **Public Health/Population Health**
- **Quality Improvement**
Objectives

- Describe recent milestones in quality improvement (QI) practice
- Understand the fundamentals of quality improvement
  - Recognize need for improvement
  - Develop aim statement
  - Identify/prioritize change ideas
  - Test/measure changes
    - Data sources/tools to support QI projects
- Identify differences in data collection for population health assessment/planning vs. quality improvement
  - Consider opportunities for integration
Healthy People 2020

New Topics include:

- Adolescent Health
- Early and Middle Childhood
- Healthcare-Associated Infections
- Sleep Health
- LGBT Health
- Preparedness
- Older Adults
The Public Health Approach to Prevention

Define the problem: Surveillance

Identify causes: Risk & protective factor research

Evaluate interventions

Implement interventions

Develop and test interventions

Model for Improvement

Model for Improvement

What are we trying to accomplish?

How will we know that a change is an improvement?

What change can we make that will result in improvement?

Act

Plan

Study

Do
The Vermont Story

• Public Health
  • Improving population health outcomes

• State Health Reform
  • Blueprint for Health

• Improvement Partnership
  • Vermont Child Health Improvement Program (VCHIP)
Goal 1: Effective and Integrated Public Health Programs

Support healthy people in every stage of life

- Achieve/maintain effective vaccination coverage levels for universally recommended vaccines for young children

- Increase % of adults w/annual flu vaccine and ever vaccinated for PCV

The Vermont Story

- Public Health
  - Improving population health outcomes

- State Health Reform
  - Blueprint for Health

- Improvement Partnership
  - Vermont Child Health Improvement Program (VCHIP)
Blueprint for Health: *Building an Integrated System of Health*

- Integrated Health Service Model
- Payment Reform to support prevention & health maintenance
- Health Information Infrastructure
- Evaluation Infrastructure
  - Generalizable (other services)
  - Scalable (larger populations)
  - Sustainable (financially)

The Vermont Story

- Public Health
  - Improving population health outcomes

- State Health Reform
  - Blueprint for Health

- Improvement Partnership
  - Vermont Child Health Improvement Program (VCHIP)
Mission
Optimize the health of Vermont children by initiating and supporting measurement-based efforts to enhance private and public child health practice.

Partners
University of Vermont (Pediatrics, OB, FP & Psychiatry)
Vermont Chapter of the American Academy of Pediatrics
Vermont Chapter of the American Academy of Family Physicians
Department of Vermont Health Access (Medicaid)
Insurers/payers

Vermont Preventive Services Initiative

- Partnership among VCHIP, Vermont AAP chapter and Vermont Department of Health

- **Goal:** To improve the quality of preventive health services delivered to children in VT

- **Objectives:**
  - Measure preventive service delivery/provide feedback
  - In-office QI for VT pediatric (and FP) practices
Practice Support

- Learning Sessions
- Baseline Chart Abstractions
- Feedback presentations at practice sites
- Collaborative phone calls
- **Monthly reports and data collection**
- Creation and modification of tools and forms

VPSI Menu of Services

- **Immunizations**
- Screening/Risk Assessment/Counseling
  - Anemia
  - TB
  - Lead
  - Smoking
  - Sleep position
  - Blood pressure
  - Vision
  - Oral health
University Pediatrics
Collaborative Aim Statement

To improve preventive services for children in our practice by assuring the delivery of evidence-based clinical care, emphasizing training and support for practice staff, and offering excellent counseling and education to families and children.

Preventive Service Improvements

• **Immunizations**
  
  – Revise vaccine administration record
  
  – Chart prompts/check every chart
  
  – “Ticklers” throughout office (conference/rest rooms)
Immunization Rates for 2 year-old Children

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>Baseline</th>
<th>Follow-up</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 DTP</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td>3 OPV</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td>3 HIB</td>
<td>93.75</td>
<td>90</td>
</tr>
<tr>
<td>3 HEP B</td>
<td>100</td>
<td>93.25</td>
</tr>
<tr>
<td>1 VZV or DZ</td>
<td>100</td>
<td>73.3</td>
</tr>
<tr>
<td>Fully Immunized</td>
<td>93.75</td>
<td></td>
</tr>
</tbody>
</table>
Keys to Success

- Office champion and involvement of variety of staff in planning/implementation

- Work on one (manageable) component at a time; creative solutions

- Collect meaningful data

Vermont Department of Health

The Road Ahead

- Apply QI in your agency/organization
- Be a resource for colleagues
- Incorporate QI into grant opportunities (Title V?)
- Engage with your state IP—or start one!

Topic areas:
- Engaging families (stay tuned for Child Health Data talk!)
- STI screening
  “Hope to learn how to effectively identify areas that need improvement, prioritize effectively, and then create an effective plan of action that is measureable.”
Questions???

www.healthvermont.gov