

# Using a Parent-Based Survey to Assess QI Efforts Focused on Developmental Services for Young Children

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**Center for Children's Health Care Improvement and  
Vermont Child Health Improvement Program**

Project Supported by The Commonwealth Fund

# Objectives

1. Briefly Describe the Measurement Needs of the Healthy Development (HD) Collaborative
2. Explain Why and How the PHDS Was Used
3. Describe the PHDS Findings
4. Key Learnings and Implications for Future Applications

# Measurement Needs of the Healthy Development (HD) Collaborative

- Primary objective: Implement office systems shown to improve developmental services
  - Address parental concerns, identify children-at-risk and provide follow-up care
  - Anticipatory guidance and parental education
  - Screen families for risk factors to child health (e.g. depression, substance abuse, etc)
  - **Family-centered quality improvement**
- Measurement tools used in the HD
  - Office system inventory
  - Practice Profile
  - Medical Chart Reviews

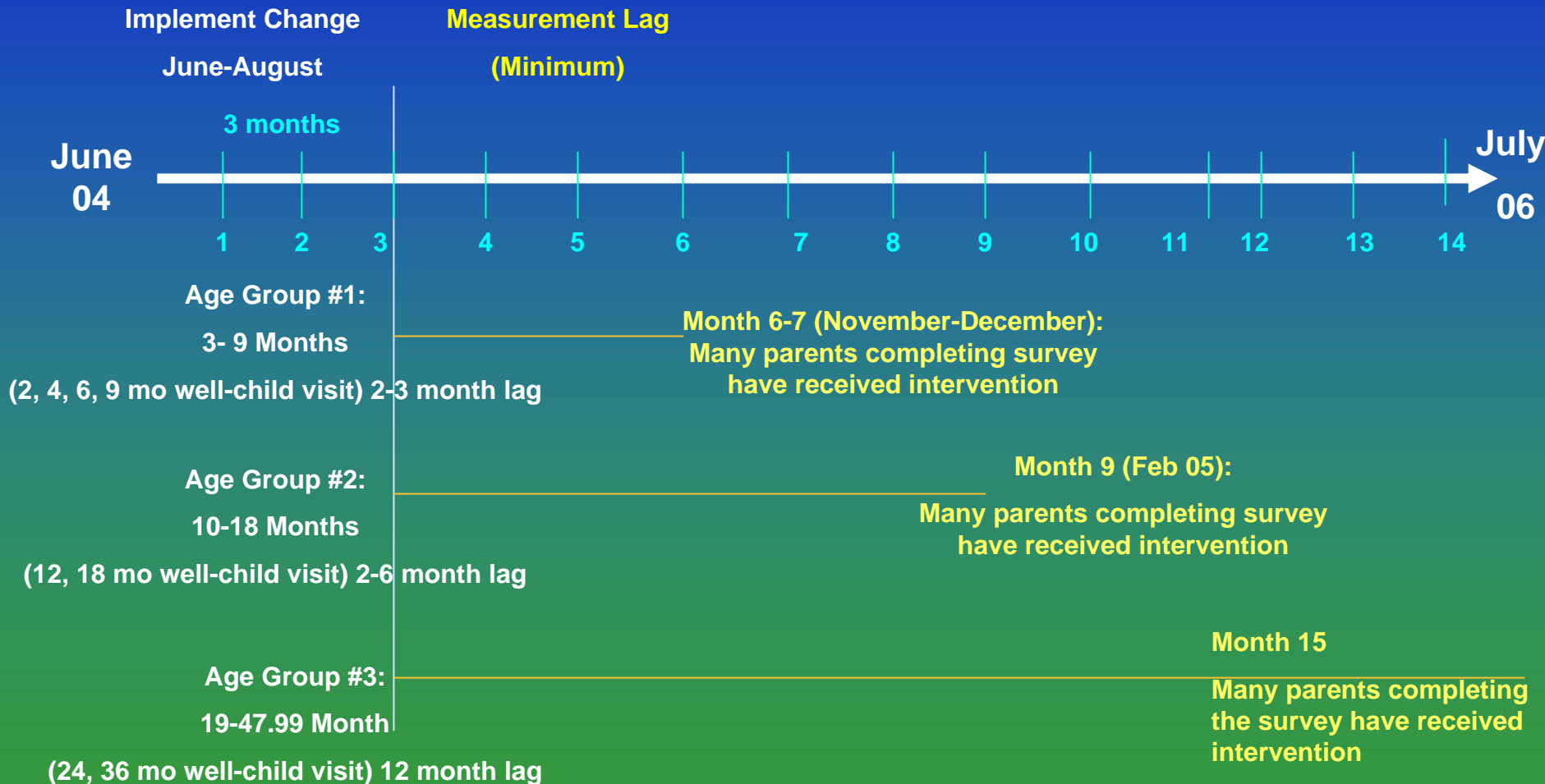
# Measurement Needs of the Healthy Development (HD) Collaborative

- Needed a valid tool with the following characteristics:
  - Measures care provided in the context of discussions between health care providers and parents
  - Provides information about the degree to which the care provided was “parent-centered”
    - Addressed their concerns
    - Information needs met
  - Feasible to implement in offices providing pediatric care
- PHDS shown to be a reliable, valid tool feasible for in-office administration
  - Previous CAHMI studies used the PHDS for one-time quality measurement

# Implementation of the PHDS

- Used the Provider-Level PHDS (ProPHDS)
  - Reduced-Item
  - 5-7 minutes to complete by parent in the office, before the visit
  - 3 age-specific versions of the survey
- PHDS implementation strategy in **Control Practices**
  - Mail-Based administration
  - Two time periods – at least 3 months apart
    - Baseline: N=457, Follow-Up N=350
- PHDS implementation strategy in **Intervention Practices** (N=18 practices) to collect data used to evaluate HD
  - Baseline: 1<sup>st</sup> 3 months (N=1001)
    - In-Office Administration to an Age-Stratified Sample
  - Follow-Up: Last 3 Months (N=778)
    - Given to Parents After the Visit, Mailed Back In
      - Increased the # of surveys given to parents of young children
    - Some offices kept in-office administration

# How long will it take to observe effects?



# PHDS: Topic-Specific Measures Created Mapping to Goals of the HD

## 1. Anticipatory Guidance and Parental Education

- Parents' had informational needs met on all items

## 2. Ask about concerns and give concerned parents information

- Parents asked if they have concerns, concerned parents got information to address their concerns

## 3. Ask about Depression

- Parents asked about depression

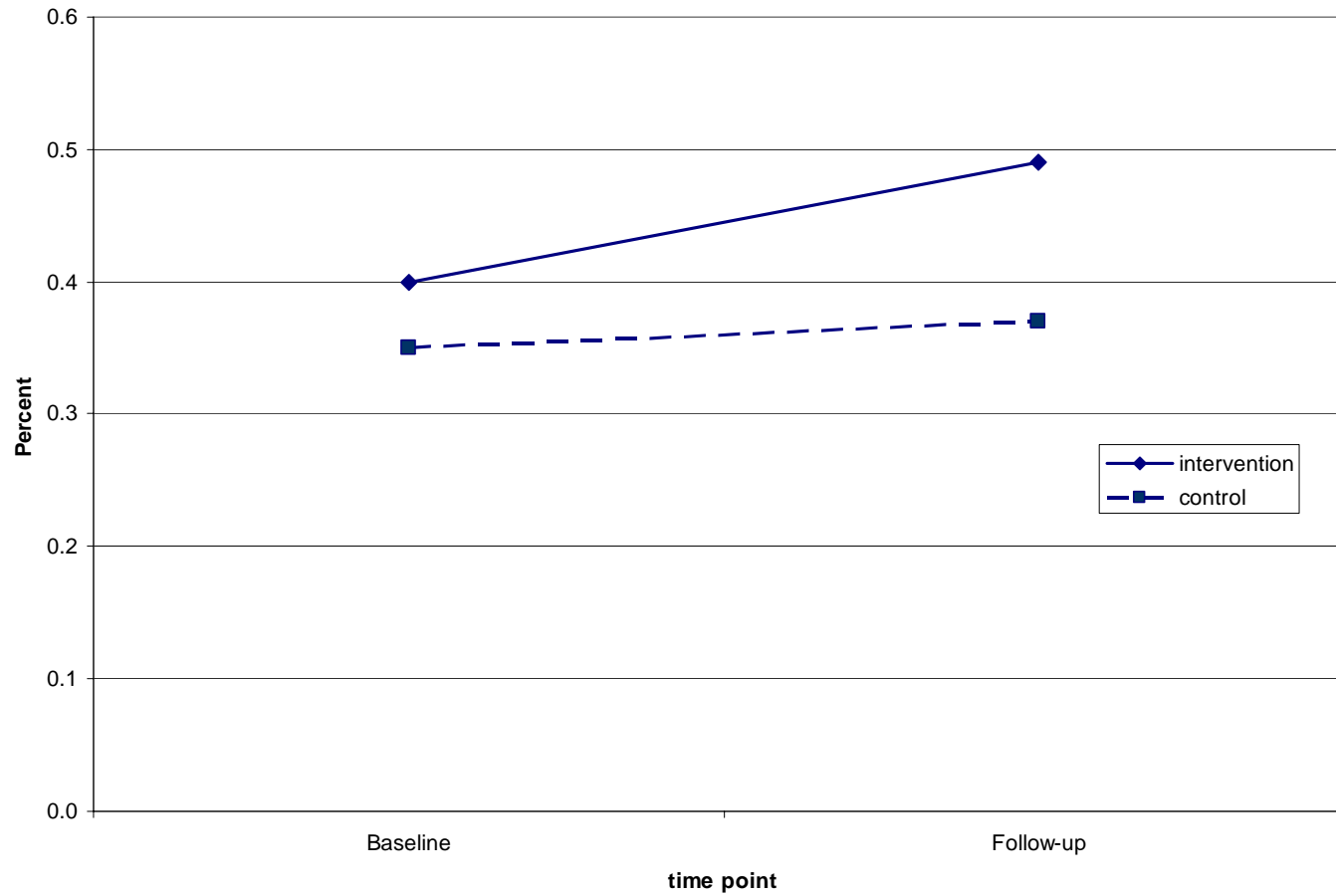
## 4. Ask about one or more of the other family-assessment items (substance abuse, safety at home, firearms, emotional support, changes or stressors)

- Parent asked about one or more other issues

# Composite Measure: “Got All Care”

- Goal is to implement systems to improve developmental services
- Composite Measure: Children’s Parents Received  $\frac{3}{4}$  of the following:
  1. Anticipatory Guidance and Parental Education (Parents’ informational needs met on all items)
  2. Ask about concerns and give concerned parents information
  3. Ask about Depression
  4. Ask about one or more of the other family-assessment items
- Findings needed to be adjusted based on sig. differences in the baseline and follow-up survey administration and population characteristics (child- and practice-level data)
  - Example: “Follow-Up” was an after-visit survey given to all eligible children 3-45 months old. Given the number of visits for young children, higher percentage of the completed surveys from parents of young children.

## Proportion of Children Receiving "All Care"



# PHDS Measure-Specific Findings

- Significant improvements observed in measures related to:
  - Addressing Parental Concerns: Parents asked if they have concerns, concerned parents got information to address their concerns
  - Asking about Parental Depression

HD collaborative implemented specific tools addressing these two components of care:

- 1) Standardized Developmental Screening Tools
- 2) Standardized tools for Parental Depression Screening

- No significant improvements observed in measures related to:
  - Parents informational needs met on recommended anticipatory guidance and parental education topics
  - Assessment of the family for other issues

# PHDS Findings

- Improvements greater and quality of care higher for younger children than for toddlers
- Improvements greater for smaller practices (1-2 providers) as compared to larger practices

# Key Learning and Implications for the Future

- **PHDS is a valuable tool for collecting baseline information, follow-up information (Baseline and Evaluation Measure)**
  - The use of the full-length PHDS during the entire, year-long BTS is not recommended
  - “Modular” or only certain sections of the PHDS would be more feasible and valuable for measurement meant to inform and guide PDSA cycle
  - **Ideal World**
    - Significant Baseline PHDS information to Inform Improvement (BEFORE BTS Begins)
    - Consider Use of the PHDS at the end to evaluate efforts from the parent-perspective
      - May be best to consider “after visit” modes of administration
- **Important to make sure that the administration matches the goal**
  - Survey needs to be given to people experiencing the intervention in order for them to report about the intervention
  - If doing Time 1 and Time 2 comparisons – ideally want the mode of administration and sampling to be the same at Time 1 and Time 2
- **Important to make sure that the scoring models used match the intended intervention**

# For More Information:

- **Healthy Development Collaborative Tools and Resources**
  - Peter Margolis, MD, PhD
  - [peter.margolis@cchmc.org](mailto:peter.margolis@cchmc.org)
  - <http://childhealthimprovement.org>
  - Soon to also be available on the Commonwealth Fund Site
- **Promoting Healthy Development Survey (PHDS)**
  - Colleen Reuland, MS
  - [reulandc@ohsu.edu](mailto:reulandc@ohsu.edu)
  - [www.cahmi.org](http://www.cahmi.org)