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Appendix A. Vision Impairment Definitions

Refractive error

- Occurs if the eye cannot focus light properly on the retina. It may cause blurry vision. If your child shows any signs of eye problems, you should take him or her to an eye doctor for a complete eye exam

Amblyopia

- Reduced vision in an eye that has not received adequate use during early childhood.

Strabismus

- Eyes that are not straight or do not line up with each other. If the problem is not treated, it can cause amblyopia.

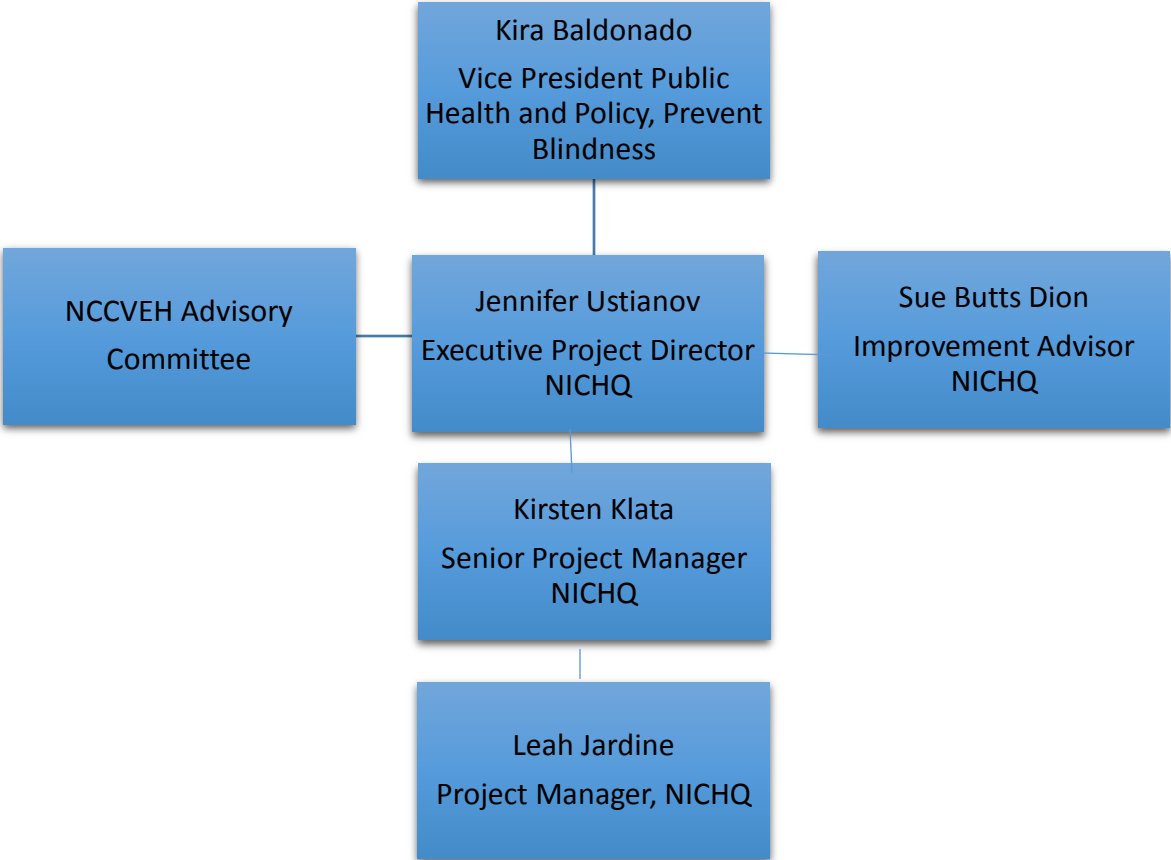
Astigmatism

- Results primarily from an irregular shape of the front surface of the cornea, the transparent "window" at the front of the eye. Persons with astigmatism typically see vertical lines more clearly than horizontal ones, and sometimes the reverse.

Appendix B. Project Timeline

Months	Activities
1-6	<ul style="list-style-type: none">• Orient faculty and PB staff to Breakthrough Series Collaborative and Model for Improvement• Project planning for Breakthrough Series Collaborative• Driver diagram development• QI measure development• Change package development
7-12	<ul style="list-style-type: none">• State participant recruitment• Development of pre-work materials• Curriculum development (in partnership with faculty)• Project planning for Breakthrough Series Collaborative• Set up of teams and measures in CoLab
13-30	<ul style="list-style-type: none">• Virtual BTS Learning Collaborative<ul style="list-style-type: none">○ Team training on CoLab○ Three virtual learning sessions○ Teams coaching from improvement advisor (IA)○ Fifteen action period calls for coaching and cross-sharing○ Active engagement in an online “virtual community”
31-36	<ul style="list-style-type: none">• Synthesis of data• Planning for dissemination• Contribution to publications and presentations, as applicable

Appendix C. Organizational Structure



Appendix D. Advisory Committee Members

Advisory Committee Leadership
(Chair) Laura Anderko, PhD, RN; Georgetown University, School of Nursing & Health Studies
(Vice-Chair) Stacy Ayn Lyons, OD, FAAO; New England College of Optometry
(Vice-Chair) Jean E. Ramsey, MD, MPH; Boston Medical Center/Boston University School of Medicine
Panel Members
Martha Dewey Bergren, DNS, RN, BC, IL/NCSN, FNASN; UIC College of Nursing
Sandra S. Block, OD, M. Ed; Illinois College of Optometry
Geoffrey Bradford, MD, MS; West Virginia University Eye Institute
Richard T. Bunner, MA, Retired; Ohio Department of Health
Mary Louise Collins, MD; Greater Baltimore Medical Center
Susan Cotter, OD, MS; Southern California College of Optometry
Alejandra de Alba Campomanes, MD, MPH; University of California San Francisco/San Francisco General Hospital
Holly A. Grason, MA; Johns Hopkins University Bloomberg School of Public Health
E. Eugenie Hartmann, PhD; Emory University
Alex R. Kemper, MD, MPH, MS; Duke University
Phoebe Lenhart, MD Emory University School of Medicine
Steven J. Lichtenstein, MD, FAAP, FACS, FAAO; University of Illinois College of Medicine at Peoria & Chicago/Children's Hospital of Illinois
M. Kathleen Murphy, DNP, RN, FNP-BC; School of Nursing, University of Texas Medical Branch (Immediate Past Chair)
P. Kay Nottingham Chaplin, EdD; Education and Outreach Coordinator for NCCVEH Vision Consultant-Good-Lite, Inc.
Rachel S. Schumann; Vision Program Consultant Michigan Dep
Wendy L. Marsh-Tootle, OD, MS; University of Alabama at Birmingham School of Optometry/The Medical Center
Bruce Moore, OD; New England College of Optometry
Nicole Pratt; SPAN – Statewide Parent Advocacy Network
Michael X. Repka, MD; Johns Hopkins University School of Medicine
Federal Liaisons
Joan Scott; Acting Director, Division of Services for Children with Special Health Care Needs (DSCSHN) Health Resources and Services Administration (HRSA) Marie Mann,
Anna Maria Padlan; HRSA/MCHB/DSCSHCN
Julia Kibunja, MPH; Public Health Analyst HRSA/MCHB/DSCSHCN

Appendix E. Learning Session Agendas

Improving Children’s Vision: Systems, Stakeholders & Support Collaborative

Virtual Learning Session 1 Agenda

September 13 – 14, 2016

Virtual Learning Session 1 (VLS1) Objectives:

By the end of Virtual Learning Session 1, participants will be able to:

- Summarize the need and goals for the Improving Children’s Vision collaborative
- Recognize the role and use of key project documents
- Discuss the origin and application of the Model for Improvement (MFI)
- Identify changes that can be made in current systems to increase the detection, diagnosis and treatment of vision problems in children ages 0-5
- Develop a plan for an initial PDSA cycle to test in action period 1

Day 1: Tuesday, September 13, 2016

Time	Topic	Presenter
12:00 – 12:15 pm EST	Welcome and Introductions <ul style="list-style-type: none"> • Objectives: <ul style="list-style-type: none"> ○ Welcome teams to learning session ○ Facilitate interactive team introductions exercise 	Kira Baldonado Director, National Center for Children’s Vision and Eye Health
12:15 – 12:50 pm EST	Learning Collaborative and Virtual Learning Session Overview: What Are We Trying to Accomplish? <ul style="list-style-type: none"> • Objectives: <ul style="list-style-type: none"> ○ Review learning collaborative aim (Kira- 7 minutes) ○ Establish the case for the learning collaborative (Kay and Erin- 20 minutes total) ○ Identify the goals for VLS1 (Jennifer- 8 minutes) 	Kira Baldonado Director, National Center for Children’s Vision and Eye Health P. Kay Nottingham Chaplin, Ed D Director- Vision and Eye Health Initiatives at Good-Lite Erin DiSanto (Family Advocate) Human resources at Community Catalyst and Prevent Blindness Volunteer Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ

Time	Topic	Presenter
12:50 – 1:20 pm EST	Virtual Storyboard Rounds	Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ All Teams
1:20 – 1:40 pm EST	Break	
1:40 – 2:20 pm EST	The Model for Improvement (MFI): How Will We Know that a Change is an Improvement? <ul style="list-style-type: none"> • Objectives: <ul style="list-style-type: none"> ○ Describe the second question in the MFI ○ Introduce the measurement strategy for the learning collaborative including expectations for monthly reporting 	Sue Butts-Dion Improvement Advisor, NICHQ
2:20 – 2:50 pm EST	Model System to Increase the Detection, Diagnosis and Treatment of Vision Problems in Children Ages 0-5 <ul style="list-style-type: none"> • Objectives: <ul style="list-style-type: none"> ○ Introduce a model for a system that works well ○ Identify key changes that teams can test 	Kira Baldonado Director, National Center for Children’s Vision and Eye Health
2:50 – 3:00 pm EST	Break	
3:00 – 3:40 pm EST	Team Time <ul style="list-style-type: none"> • Objectives: <ul style="list-style-type: none"> ○ Reflecting on the “model system”, outline ideal system in your team’s state, as well as the current system ○ Compare ideal system and current system ○ Identify 2-3 areas of focus to improve current system ○ Refine team aim statement based on team discussion 	All Teams
3:40 – 3:50 pm EST	Team Time Report Out on Aim Statements	Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ Sue Butts Dion Improvement Advisor, NICHQ

Time	Topic	Presenter
3:50 – 4:00 pm EST	Next Steps <ul style="list-style-type: none"> • Objectives: <ul style="list-style-type: none"> ○ Summarize Day 1 learnings ○ Review agenda for Day 2 ○ Introduce Day 1 evaluation 	Leah Jardine, MA Project Manager, NICHQ

Day 2: Wednesday, September 14, 2016

Time	Topic	Presenter
12:00 – 12:15 pm EST	Welcome Back: Questions, Answers and Reflections from Day 1 Overview of Day 2 Agenda	Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ
12:15 – 12:50 pm EST	The Model for Improvement (MFI): What Changes Can We Make that Will Result in Improvement? <ul style="list-style-type: none"> • Objectives: <ul style="list-style-type: none"> ○ Describe the third question in the MFI ○ Introduce the driver diagram ○ Introduce the change package 	Sue Butts-Dion Improvement Advisor, NICHQ
12:50 – 1:40 pm EST	The Model for Improvement (MFI): Learning with the Plan-Do-Study-Act (PDSA) Cycle <ul style="list-style-type: none"> • Objectives: <ul style="list-style-type: none"> ○ Describe the steps of PDSA cycle ○ Understand rapid cycle PDSA testing ○ Understand how theory and prediction aid learning 	Sue Butts-Dion Improvement Advisor, NICHQ
1:40 – 1:50 pm EST	Break	
1:50 – 2:40 pm EST	Keys to Success <ul style="list-style-type: none"> • Objectives: <ul style="list-style-type: none"> ○ Introduce key aspects of breakthrough improvement that support your success ○ Outline the Six Skills that Support Improvement ○ Facilitate interactive discussion as teams share the supports in place and anticipated challenges 	Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ
2:40 – 2:50 pm EST	Break	
3:00 – 3:50 pm EST	Team Time <ul style="list-style-type: none"> • Objectives: <ul style="list-style-type: none"> ○ Plan first PDSA cycle for action period 1 	Sue Butts-Dion Improvement Advisor, NICHQ

Time	Topic	Presenter
		All Teams
3:40 – 3:50 pm EST	Team Time Report Out	Sue Butts-Dion Improvement Advisor, NICHQ
3:50 – 4:00 pm EST	Next Steps <ul style="list-style-type: none"> • Objectives: <ul style="list-style-type: none"> ○ Summarize Day 2 learnings ○ Review expectations for action period activities ○ Introduce VLS1 evaluation 	Leah Jardine, MA Project Manager, NICHQ

Improving Children’s Vision: Systems, Stakeholders & Support Collaborative

Virtual Learning Session 2 Agenda

March 22 – 23, 2017

Virtual Learning Session 2 (VLS2) Objectives:

By the end of Virtual Learning Session 2, participants will be able to:

- Identify two ideas that will inform collaborative learning
- Set a timeline for accomplishments in Action Period 2
- Outline Action Period 2 activities
- Identify key elements of a the “Plan” in “P”DSA

Day 1: Wednesday, March 22, 2017

Time	Topic	Presenter
12:00 – 12:15 pm EST	Welcome and Introductions <ul style="list-style-type: none"> • Welcome teams to learning session • Facilitate interactive team introductions exercise 	Kira Baldonado Director, National Center for Children’s Vision and Eye Health
12:15 – 12:30 pm EST	Virtual Learning Session 2 Overview: What Are We Trying to Accomplish? <ul style="list-style-type: none"> • Review of ICV Aim Statement • Objectives for VLS2 • Agenda Review 	Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ
12:30 – 1:45 pm EST	Virtual Storyboard Rounds <ul style="list-style-type: none"> • 15 minutes each team with • Q&A: one question from each team, faculty questions in chat 	Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ All Teams
1:45 – 2:00 pm EST	Break	
2:00-2:40 pm EST	QI Session: Learning More about the PDSA Cycle for Learning Through Coaching <ul style="list-style-type: none"> ○ Introduction of the PDSA worksheet to enable peer review of PDSAs Strengthening your PDSA through peer coaching 	Sue Butts-Dion Improvement Advisor, NICHQ
2:40 – 2:50 pm EST	Break	
2:50-3:30 pm EST	Team Time	Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ Sue Butts Dion

Time	Topic	Presenter
		Improvement Advisor, NICHQ
3:30 – 3:50 pm EST	Team Time Report Out <ul style="list-style-type: none"> Each team shares two ideas 	Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ Sue Butts Dion Improvement Advisor, NICHQ
3:50 – 4:00 pm EST	Next Steps <ul style="list-style-type: none"> Highlights of Day 1 learnings Review agenda for Day 2 Introduce Day 1 evaluation 	Leah Jardine, MA Project Manager, NICHQ

Day 2: Thursday, March 23, 2017

Time	Topic	Presenter
12:00 – 12:15 pm EST	Welcome Back: Questions, Answers and Reflections from Day 1 and Overview of Day 2 Agenda	Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ
12:15 – 12:50 pm EST	Partners Who Inform Improvement Reflective Sharing on Partner Engagement <ul style="list-style-type: none"> Who are the partners we have engaged thus far? Strategies being used to engage external partners Examples of partner activities & effectiveness Next steps for expanding partner engagement in AP2 	Kira Baldonado Director, National Center for Children’s Vision and Eye Health
12:50 – 1:45 pm EST	QI Session: Unlocking the Data <ul style="list-style-type: none"> Review continued challenges Brainstorm strategies 	Sue Butts-Dion Improvement Advisor, NICHQ
1:45 – 2:00 pm EST	Break	
2:00– 2:40 pm EST	Team Time <ul style="list-style-type: none"> Further development of AP ideas Tasks Testing – create at least one “P” using the PDSA worksheet and prepare to share test and associated tasks in team report out	Sue Butts-Dion Improvement Advisor, NICHQ Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ

Time	Topic	Presenter
2:40 – 3:00 pm EST	<ul style="list-style-type: none"> • Team Time Report Out 	<p>Sue Butts-Dion Improvement Advisor, NICHQ</p> <p>Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ</p>
3:00 – 3:10 pm EST	Break	
3:10 – 3:50 pm EST	Three Critical Actions to Improve Children’s Vision and Eye Health	<p>Dr. Bruce Moore Marcus Professor of Pediatric Studies New England College of Optometry</p>
3:50 – 4:00 pm EST	<p>Next Steps</p> <ul style="list-style-type: none"> • Objectives: <ul style="list-style-type: none"> ○ Summarize Day 2 learnings ○ Review expectations for action period activities ○ Introduce VLS2 evaluation 	<p>Leah Jardine, MA Project Manager, NICHQ</p>

Improving Children’s Vision: Systems, Stakeholders & Support Collaborative

Virtual Learning Session 3 Agenda

September 26, 2017

Virtual Learning Session 3 (VLS3) Objectives:

By the end of Virtual Learning Session 3, participants will be able to:

- Assess individual and aggregate progress to date and identify opportunities for continued improvements essential to progress.
- Collaborate with other participants to identify new approaches to accelerate improvement with meeting the project and team aims.
- Develop a short and long term plan for sustaining and spreading improvements, including data collection.

Time	Topic	Presenter
12:00 – 12:15 pm ET	Welcome and Introductions <ul style="list-style-type: none"> • Welcome teams to learning session • Facilitate interactive team introductions exercise 	Kira Baldonado Director, National Center for Children’s Vision and Eye Health
12:15 – 12:25 pm EST	Virtual Learning Session 3 Overview: What Are We Trying to Accomplish? <ul style="list-style-type: none"> • Objectives for VLS3 • Review agenda 	Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ
12:25 – 1:40 pm EST	Virtual Storyboard Rounds <ul style="list-style-type: none"> • 15 minutes each team with • Q&A: one question from each team, faculty questions in chat 	Jennifer Ustianov, MS, BSN, RN, IBCLC Senior Director, NICHQ All Teams
1:40-1:50 pm ET	Break	
1:50-2:20 pm ET	Holding the Gains <ul style="list-style-type: none"> ○ Sustaining improvement ○ Spreading the work 	Sue Butts-Dion Improvement Advisor, NICHQ
2:20-2:30 pm ET	Break	
2:30-2:55 pm ET	Quality Improvement and Public Health: Notes from the Field	M. Kathleen Murphy, DNP, RN, FAAN University of Texas Medical Branch

Time	Topic	Presenter
2:55-3:35 pm ET	Team Time <ul style="list-style-type: none"> ○ What needs to be changed? ○ Next three actions that need to be taken to make that change 	All Teams
3:35-3:55pm ET	Team Time Report Out <ul style="list-style-type: none"> ● Each team shares two ideas 	Sue Butts Dion Improvement Advisor, NICHQ
3:55-4:00 pm ET	Next Steps <ul style="list-style-type: none"> ● Highlights of VLS3 learnings ● Introduce evaluation ● Expectations for AP3 	Leah Jardine, MA Project Manager, NICHQ

Appendix F. Sample Site Visit Agenda

Improving Children’s Vision Site Visit Agenda (Sample)

Topic	Description
<p>Site Visit Launch Meeting with the ICV Team</p>	<p>Team leader(s) will share how the ICV initiative impacts the community your team serves and how improving children’s vision referrals and outcomes aligns with the organizations mission.</p> <p>New Hope staff describe what the initiative means to them and their students</p> <p>The ICV team should be prepared to share/review:</p> <ul style="list-style-type: none"> • Team aim statement • Baseline data, gaps in evidence-based practice • Challenges • Request for leadership support and resources <p>We will also discuss the best way for your leaders to remain updated and engaged in this work.</p>
<p>Meeting with Broader Stakeholder Group</p>	<p>A walk through the collaborative.</p> <ul style="list-style-type: none"> • Review progress-to-date <ul style="list-style-type: none"> ○ Identify stakeholders and plan to engage • Data for improvement <ul style="list-style-type: none"> ○ Collection system ○ Story of how data was collected ○ Lessons, challenges, and lingering questions ○ Review data submitted • Discuss current involvement and opportunities for future involvement • Strategy discussion around challenges • Sustainability and spread strategy • Next steps
<p>New Hope School</p>	<ul style="list-style-type: none"> • Tour • Summary description of the school (population served, etc.)
<p>Wrap Up</p>	<p>Debrief interviews</p> <p>Last thoughts</p>

Appendix G. Interview Guide

Improving Children's Vision Interview Guide

What is the purpose of the interviews? As our initial Improving Children's Vision initiative closes, Prevent Blindness and NICHQ are seeking different perspectives to understand successes and challenges of those involved and how we might reframe and improve a subsequent initiative.

How the information will be used? The information collected during these interviews will be used in the final report for the project, which is submitted to the HRSA/MCHB; to inform new work in this area; and potentially in a white paper or blog. No identifying information will be included and no direct quotes will be shared without asking explicit permission. This information is critical to moving forward with future work around how to improve children's vision. We want to learn from your experiences and perspective so we can design a better initiative in the future, and support other groups in this work.

Pick one depending on who you are interviewing:

- Your perspective as a *team lead* is important as you are most familiar with the work, the successes and challenges.
- Your perspective as a *state organization rep* is important as you bring the perspective of a partner in this work.
- Your perspective as a *parent partner* is important as you can tell us whether (and how) you think this work will have an impact on children and families' lives.

Team Lead

1. Value of participation
 - How would you describe the over-all value of the Improving Children's Vision (ICV) initiative?
 - Suppose I was the care giver for a child with vision problems. What would you tell me I might experience differently now that you have participated in the ICV collaborative? As a patient in your newly improved system, what might I now see happening that I would not have experienced before?
 - Now I would like to ask you about family reaction. What has been the reaction of families to the redesigns you have made to your processes and systems for vision screening?
2. Building partnerships with key stakeholders
 - Who are the key stakeholders? How have you engaged them to date?
 - What have you learned about engaging partners in this work?
 - What, in your opinion, was your biggest success/barrier around building partnerships with key stakeholders?
 - Probe for successes and barriers around data sharing
 - Now I would like to ask you about reactions from partners. What has been the reaction of partners to the redesigns you have made to your processes and systems for vision screening?
 - Do you have data use agreements in place or in process with any key stakeholders?

3. Key successes
 - What do you think are the key successes in your state regarding the Improving Children's Vision initiative?
 - When you think of the aim that you developed for the ICV collaborative, what stands out for you? For example, what could you have done more of? Less of?
 - Knowing what you know now, what advice would you give to another team starting this work relative to crafting an aim for the work?
 - What are the key changes you feel contributed most to your aims around improving children's vision? Least?
 - What are you most proud of from the work you completed in this collaborative?
4. Recommendations for future collaboratives
 - How could initiatives like Improving Children's Vision be designed for greater impact in the future?
 - *What advice would you offer to another team who was just starting to participate in Improving Children's Vision?*
 - Do you feel that the Collaborative ran for an appropriate amount of time? (18 months)
5. Site visits
 - What did you find most useful about the site visit? Least useful?
 - *Look for comments on timing; participants; agenda*
6. Is there anything that we haven't asked you about that you feel is important for us to know?
7. Please name 1-2 other partners (e.g., someone from a state organization), who have been involved in this work you would suggest we also interview.

Below are draft questions for other potential representatives we may interview. These questions will be updated based on the specific person being interviewed and what was found in the initial interview with the team lead.

State organization (or other organization) representative

- How were you involved in the Improving Children's Vision initiative?
- How does this work align with the goals of your organization?
- What role do you see for your ongoing partnership as together you seek to improving children's vision health, in your state or region?
- Have you integrated any of the changes or approaches explored in the QI work into your organization?
 - If yes, please describe.
 - If no, do you have plans to integrate any changes?
 - If yes, please elaborate.
- Were you asked to collect data for this effort?
 - If yes, did you encounter any issues with collection of that data? How can that process be improved?
- What would your recommendations be for a future initiative?
- Is there anything that we haven't asked you about that you feel is important for us to know?

Family partner (from AP Call or through written input. We could give them the option of having a phone interview if that's easier than writing it out).

- How were you involved in the Improving Children's Vision initiative activities?
- Do you feel personally connected to this work?

- How were you able to contribute to this initiative?
- In what ways do you see your experience and skills continuing to contribute to this work?
- What would your recommendation be for a future initiative?
- Is there anything that we haven't asked you about that you feel is important for us to know?

Appendix H. Ohio Telephone Survey

January 9, 2017

Follow-up questions for the parents of children that failed the vision screening have attended an eye examination.

- Confirm that the child has received an eye examination. Explain to the parent(s) that learning the motivation behind a parent's decision to seek an eye exam as a result of a failed vision screening provides screeners with insightful information.
- What was your initial reaction when you learned that your child failed the vision screening?
- Do you recall receiving the vision screening results in written form? If so, did you read the content of the form given to you?
- Did you experience any difficulty in identifying an eye doctor that would accept your insurance and see a young child?
- Any additional comments about the information shared with you about the vision screening and the results?