Vision Screening and Eye Health for Toddlers in Head Start Programs

Healthy vision supports learning, early literacy skills, social and emotional development, motor skills, physical activity, and self-image. It’s not always easy to tell when children have difficulty seeing, because many vision problems are invisible. Therefore, vision screening throughout early childhood is important to identify and ensure treatment of vision disorders. Early detection and timely treatment lead to better outcomes for vision health and improved classroom behaviors in young children.

Head Start Program Performance Standards

Head Start Program Performance Standards require grantees to obtain the results of or perform vision screening.

45 CFR §1302.42 – Child health status and care (b) (2-3) states:

(2) Within 45 calendar days after the child first attends the program or, for the home-based program option, receives a home visit, a program must either obtain or perform evidence-based vision and hearing screenings.

(3) If a program operates for 90 days or less, it has 30 days from the date the child first attends the program to satisfy paragraphs (b)(1) and (2) of this section.

Child Observation and Health History

Before using a vision screening tool, observe the appearance of the toddler’s eyes and the toddler’s behavior. Also note any vision concerns reported by the child’s family, teachers, or other caregivers.

Consider adding a checklist, such as Signs of Possible Vision Problems in Children (also available in Spanish), to the health information that families share during enrollment to identify children with a higher risk for vision disorders.
Notes:

• Families or Head Start staff — including teachers, home visitors, nurses, health aides, and health or disability managers — can conduct instrument-based screening with proper training. Consult the vision screening instrument vendor or the product manufacturer to ensure that anyone who conducts vision screening on behalf of your program is trained and knows how to use the instrument correctly.

Acceptable Vision Screening Methods for Toddlers Ages 1 and 2

The most recent joint guidelines from the American Academy of Pediatrics, American Association of Certified Orthoptists, American Association for Pediatric Ophthalmology and Strabismus, and the American Academy of Ophthalmology recommend instrument-based vision screening for toddlers ages 1 and 2.

Instruments use automated technology to analyze the structure of the eyes for information about risk factors that may lead to the development of amblyopia. Amblyopia (also known as “lazy eye”) is a loss of vision when the brain does not receive adequate visual stimulation while the sense of sight is developing in early childhood. Toddlers with amblyopia might develop good vision in one eye and have poor vision in another.

Instrument-based screening does not measure visual acuity (sharpness or clearness of vision at a specified distance interpreted in the brain when using eye charts or computer software). Instrument-based screening results cannot be converted to visual acuity measurements, such as 20/20.7

The evidence for instrument-based screening as a useful tool is growing. For a list of instrument recommendations and more guidance, go to the National Center for Children’s Vision and Eye Health.

Question

Should we screen vision annually?

Answer

Yes. Vision screening is not a one-time event. Children’s eyes change as they grow and develop. Best practice is to screen vision annually.

Training

Head Start staff — including teachers, home visitors, nurses, health aides, and health or disability managers — can conduct instrument-based screening with proper training. Consult the vision screening instrument vendor or the product manufacturer to ensure that anyone who conducts vision screening on behalf of your program is trained and knows how to use the instrument correctly.

Table of signs of possible problems in children:

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Behavior</th>
<th>Complaints</th>
</tr>
</thead>
<tbody>
<tr>
<td>eyelids red</td>
<td>squinting eyes</td>
<td>rubbing eyes often</td>
</tr>
<tr>
<td>crusted eyelids</td>
<td>difficulty copying material from a whiteboard</td>
<td>unable to see something other people can see</td>
</tr>
<tr>
<td>swelling under eye</td>
<td>sees worse at the end of the day</td>
<td>brings toys or books close to his or her face</td>
</tr>
<tr>
<td>red, swollen eyelids</td>
<td>eyes itch, burn, or feel scratchy</td>
<td>difficulty copying material from a whiteboard</td>
</tr>
<tr>
<td>eye is not the same round shape and the pupil in the other eye</td>
<td>difficulty copying material from a whiteboard</td>
<td>difficulty copying material from a whiteboard</td>
</tr>
<tr>
<td>pupil (the black circle in the colored reflection in the pupil) is greater than the pupil in the other eye</td>
<td>difficulty copying material from a whiteboard</td>
<td>difficulty copying material from a whiteboard</td>
</tr>
<tr>
<td>color photos of child's eyes show a white ring around the eye</td>
<td>difficulty copying material from a whiteboard</td>
<td>difficulty copying material from a whiteboard</td>
</tr>
</tbody>
</table>

Children with a higher risk of vision impairment include those with:

- Easily identified eye abnormalities, like crossed or wandering eye or a droopy eye lid
- Neurodevelopmental disorders (e.g., hearing impairment, cerebral palsy, Down syndrome, cognitive impairment, autism spectrum disorder, attention-deficit/hyperactivity disorder)
- Systemic conditions known to be commonly associated with eye disorders, like diabetes and juvenile arthritis
- Parents or siblings with a history of strabismus (eye misalignment), amblyopia, or wearing glasses at a young age
- A history of premature birth (under 32 weeks)
- Families or Head Start staff who have concerns that the child has a vision problem
- Parents or siblings with a history of amblyopia might develop good vision in one eye and have poor vision in another.

The evidence for instrument-based screening as a useful tool is growing. For a list of instrument recommendations and more guidance, go to the National Center for Children’s Vision and Eye Health.
Documentation
Text on the instrument’s screen will tell you if an eye examination is recommended. Report instrument-based screening as either a “pass” or “refer.”

Rescreening and Referral
Follow these guidelines when rescreening and referring toddlers for eye examinations:

- If you cannot get a screening result after three consecutive attempts, talk to the family about referring their child for an eye examination.
- Refer children for an eye examination when they do not receive a “pass” on their vision screening.
- Consult with the child’s family and health care provider about a referral to an eye doctor who is trained and experienced in examining and treating infants and toddlers.
- Refer toddlers with special health care needs to an eye doctor who is trained and experienced in treating infants and toddlers with special health care needs.

Eye Care Referral List
Consider contacting eye doctors in your area to create a list of nearby eye care offices. Give the list to your families and their health care providers when you refer children ages 1 and 2. Assign staff or a volunteer to update the list every six months and include the revision date to ensure families receive the up-to-date list.

Include this information:
- Eye doctor name
- Practice name
- Address
- Telephone number for appointments
- Whether or not the eye doctor accepts Medicaid
- Other types of payment accepted
- Languages spoken
- Whether or not interpreters are provided
- Whether or not the eye doctor examines and treats children from birth to age 6
- Whether or not the eye doctor examines and treats children with special health care needs

Family Engagement and Support for Follow-Up Eye Examinations
It is important for family engagement and health services staff to talk with families about how vision supports children’s learning. These conversations can also help identify possible barriers to follow-up care, such as a lack of transportation, lack of insurance, language barriers, or concerns about children wearing glasses, and develop solutions to these challenges.

Work with your program’s Health Services Advisory Committee to help everyone understand barriers to care and to identify solutions. Refer to the resources in this document for assistance.
**Question**
How frequently should toddlers and other young children who wear glasses receive an eye examination?

**Answer**
Once every 12 months. Check the date of the most recent eye examination you have on file. If the last one was more than 12 months ago, make sure an appointment is scheduled. If necessary, offer to help the family return to the eye doctor for a missed or upcoming appointment.

**Follow-Up Procedures**
These four actions support families in arranging for and attending eye examinations with their toddlers:

1. Determine how families want to be contacted (e.g., letters, email, or text messages) and their preferred language.
2. Determine who in the family can make decisions about medical procedures and work with that family member.
3. Ask families how they feel about their toddlers wearing prescription eyeglasses if eyeglasses are part of the treatment plan.
4. Ask families what assistance they need with getting an eye examination and eyeglasses, if needed. See “Eye Care Referral List” above for details about how to create a list of local eye doctors.

**Resources to Share with Families During Referral for Follow-Up Procedures**
- What is the Difference Between a Vision Screening and an Eye Examination?
- Importance of an Eye Examination After Receiving Referral from a Vision Screening
- Association Between Vision and Learning
- 10 Small Steps From Vision Screening to the Eye Exam and Possible Treatment for Big Vision
- How to Schedule an Eye Examination
- Financial Assistance Information

**Supporting Families of Toddlers With Visual Impairment**
Refer families of a toddler with a diagnosed visual impairment (partial sight or blindness) to your program’s disability services coordinator to explore eligibility for Part C of the Individuals with Disabilities Education Act (IDEA).

More resources to support parents of toddlers who are blind or visually impaired include:
- Know Your Rights as the Parent of a Blind or Visually Impaired Child
- American Printing House Directory of Services for Blind and Visually Impaired Persons

**More Vision Resources for Head Start Staff to Share With Families**
- Small Steps for Big Vision: An Eye Health Information Tool Kit for Parents and Caregivers (may take a minute to load)
- Parents Need to Know
References


