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New Criteria for Automated Preschool Vision Screening
Evidence-Based Guidelines Published in the Journal of AAPOS

San Francisco, CA, February 4, 2012 – The Vision Screening Committee of the American Association for Pediatric Ophthalmology and Strabismus, the professional organization for pediatric eye care, has revised its guidelines for automated preschool vision screening based on new evidence. The new guidelines are published in the February issue of the Journal of AAPOS.

Approximately 2% of children develop amblyopia, sometimes known as “lazy eye” – a loss of vision in one or both eyes caused by conditions that impair the normal visual input during the period of development of vision. Amblyopia remains treatable until 60 months, with treatment becoming less effective after age 5.

The AAPOS Vision Screening Committee established the first guidelines for automated preschool vision screening in 2003. These primarily addressed the magnitude of refractive error that was (by consensus) thought to put a child at risk for the development of amblyopia. Since then, more data have emerged about the prevalence of amblyopia risk factors in young children from which it is clear that most children with these risk factors do not develop the condition. Likewise, technology has advanced, and screening instruments are now available that detect abnormalities other than amblyopia risk factors. The Committee has therefore reviewed the new evidence and adjusted its criteria.

"Over the last decade, automated methods for vision screening have progressed to the point where they are now extremely effective in identifying vision problems in children prior to their being able to read an eye chart," said lead author Sean P. Donahue, MD, PhD, of the Department of Ophthalmology and Visual
Sciences, Vanderbilt University Medical Center, Nashville, TN. "It is exciting to see pediatricians adopt these technologies."

He continued: "If the detection of decreased vision and amblyopia are the goals of screening, then referrals based on technology that detects risk factors will result in over-referrals. It is therefore imperative that updated guidelines for detecting amblyopia risk factors propose levels that best separate those children who are most at risk for developing amblyopia from those who are not."

The Committee’s recommendations include:

- Separate criteria for toddlers (12-30 months), early preschool children (31-48 months), late preschool and kindergarten children (49-72 months), and school-aged children (over 72 months)
- Lower referral rate for young children by raising the threshold referral values
- Use of traditional optotype recognition screening option for school-age children who can read linear letters
- Detection of visually significant media opacities and manifest (not intermittent) strabismus at all ages
- Instruments that detect amblyopia should report results using amblyopia presence as the gold standard

The Committee also noted that the U.S. Preventive Services Task Force (USPSTF) has specifically endorsed the use of photoscreening modalities for the detection of amblyopia risk factors in the 3- to 5-year-old age group.

Journal of AAPOS Editor-in-Chief Edward G. Buckley, MD, Professor of Ophthalmology and Pediatrics and Vice-Dean of Medical Education at Duke University School of Medicine, commented, "Early detection is critical if we are to be successful in eliminating unnecessary treatable vision loss in children. These new guidelines hopefully will allow children's health care providers to get one step closer to our goal."

NOTES FOR EDITORS


Full text of the article is available at to credentialed journalists upon request; contact Kim-Anh Hoang at +31 20 485 3634, k.hoang@elsevier.com to obtain a copy. Supplementary content associated with this article can be found in the online version at http://dx.doi.org/10.1016/j.jaapos.2012.09.012. Journalists wishing to set up interviews with the authors should contact Bethany Walser at 615- 936-1035, bethany.walser@Vanderbilt.edu.

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ABOUT THE AMERICAN ASSOCIATION FOR PEDIATRIC OPHTHALMOLOGY AND STRABISMUS
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The goals of the AAPOS, the American Association for Pediatric Ophthalmology and Strabismus, are to advance the quality of children's eye care, support the training of pediatric ophthalmologists, support research activities in pediatric ophthalmology, and advance the care of adults with strabismus.

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