Vision Screening 101 - Is Vision Screening and Eye Health an Integral Part of your School Health Program?
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Today’s Presenters

Dr. Bruce Moore
Dr. Stacy Lyons
Rhonda Strahm
Vision Care 101 - A Webinar for Solutions To Improving Access To Vision Care

Dr. Bruce Moore
Dr. Stacy Ayn Lyons
And
Rhonda Strahm

November 2015
Common Vision Disorders— the Why?

Bruce Moore OD
Marcus Professor of Pediatric Studies
New England College of Optometry
Boston

November 2015
Why Do We Care About the Vision of Children?

• Vision disorders are the 4th most common disability in the US
• Vision is the most prevalent handicapping condition in childhood
• There can be a critical adverse affect on learning
• Early detection and treatment improve outcome
• Most vision problems in children are occult
Epidemiology of Vision Problems in Children

- Amblyopia
- Strabismus
- Significant refractive error
- Binocular or functional vision anomalies
- Eye Disease
Amblyopia

• Incidence
• What is it?
• What is its significance?

Classroom as it appears with bilateral amblyopia

Classroom as it should appear to the child
Strabismus

- Incidence
- What is it?
- What is its significance?
Significant Refractive Error

- Incidence
- What is it?
- Astigmatism
- Anisometropia
- What is meant by significant?
Binocular or Functional Vision Anomalies

- Incidence
- What is it
- What is it’s significance?
Eye Disease

- Incidence
- What is it?
- What is it’s significance?
Evidence Basis for Treating Pediatric Vision Problems

- What is evidence based medicine?
- How does it influence pediatric vision correction?
How Do We Treat Refractive Error?

- Glasses
- Keep the glasses on!
How Do We Treat Amblyopia?

- Depends on the cause
- **Glasses are a critical treatment modality**
- Additional treatment in addition to glasses
  - Patching
  - Atropine
How Do We Treat Strabismus?

- It's relationship to refractive error and amblyopia
- Glasses are an important treatment modality
- Additional treatments
  - Non-surgical
  - Surgical
How Do We Treat Binocular Problems

- Glasses are again an important initial treatment modality
- Vision therapy
Thanks!
Solutions To Improving Access To Vision Care

Stacy Ayn Lyons, O.D., F.A.A.O.
Professor
Chair, Specialty and Advanced Care Department
New England College of Optometry

November 2015
Vision Disorders in Preschoolers

- Fourth most common disability in the U.S.
- Most prevalent handicapping condition of childhood.

However...
- Children do not know how they should see
- Are unable to tell us that they cannot see
- Vision problems do not hurt.
Vision Screening

- Identifies children at risk for vision problems or who require a comprehensive eye exam due to performance on screening tests

- Designed to detect disorders in early, treatable stages
Vision Care Continuum

- Eye Exam
- Referral
- Plan & Support
- Ongoing Care

Early Identification Screening and co-diagnosis
Comprehensive Eye Examination

An eye exam, performed by an optometrist or ophthalmologist, diagnoses eye disorders and diseases and prescribes treatment.

Includes an evaluation of the refractive state, ocular health evaluation, visual acuity, ocular alignment, binocularity, and color vision testing
A Child Should Have A Comprehensive Eye Exam if:

- They have failed a vision screening (at the pediatrician or school)
- They display any signs of vision problems
- There are concerns about reaching developmental milestones
- There are concerns about reading, learning or performance at school
Vision Care Continuum

- **Eye Exam**
- **Referral**
- **Plan & Support**
- **Ongoing Care**

Early Identification Screening and co-diagnosis
Reasons Follow-up Eye Exams Do Not Occur: Research Studies

- National average for turn around time between a failed vision screening and access to comprehensive eye care is 18 months.

- National data which indicates that 40-65% of children do not access follow-up comprehensive vision care after school vision screening referral.

  Gap for children of ethnic minorities
Barriers to Care and Treatment

- **Knowledge**
  - Screening vs comprehensive exam
  - Potential impact of vision problems with learning
  - Awareness of resources
  - Lack of knowledge of where to go for the exam
  - Difficulty navigating the health care system

- **Cost**
- **Time, transportation**
- **Language, culture**
- **Trust**
Increasing compliance With Follow-Up Exams

- Provide Needed Information
  - Explain vision screening process and part their child did not pass
  - Explain implications of vision problems
  - Provide lists of area service providers
  - Provided financial assistance information
  - Provide transportation assistance information
Increasing compliance With Follow-Up Exams

• Increasing Compliance With Community Providers:
  - Become familiar with community resources
  - Build partnerships with providers
  - Explore creative options for service delivery
Striving to Optimize Learning

- New England Eye/School Based Vision Center
- Partnership with the Framingham Public Schools
  - Access for all children
  - Comprehensive Visual Examinations
  - Eyeglasses
  - Vision Therapy
  - Contact Lenses
On-Sight Mobile Clinic

- Access for all children
- Comprehensive Visual Examinations
- Eyeglasses
Eyes that Thrive

- Develop and implement a community program to support school-based care of prescribed treatment plans for children with vision conditions

2011 Healthy Eyes Healthy People® State Association Grants (Massachusetts)
Eyes that Thrive

1. Vision Action Plan
2. Two Pair of Glasses
3. Individual Education Card
4. Education for Head Start health managers, staff and families
5. Consultation available to Head Start health managers, staff and families
6. Compliance Tracker for evaluation
Individualized Education Cards

HYPEROPIA

Your child has trouble seeing pictures in a book, small toys, games on the computer, and seeing clearly for as long as other children can.

To help your child see clearly, it is important that your child wear eye glasses all of the time that he or she is awake.

Follow-up visits with the eye doctor are very important for your child.

The vision condition that your child has is ‘hyperopia’.

HYPEROPIA

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The vision condition that your child has is ‘hyperopia’.
Vision Action Plan

☐ This Vision Action Plan is valid from _____________ to ______________. –OR–

☐ Initial treatment plan only. A follow-up eye exam is needed in _____________ (month/year) to complete this Vision Action Plan.

Student Name: ___________________________________________ Date of Birth: ______________
Parent/Guardian Name: _______________________________________
Preferred Phone: ___________________________ Alternate Phone: ___________________________
School: ___________________________ Health manager/school nurse: ___________________________
Date of eye exam: ___________________________
Eye doctor (Name/Practice): ___________________________________________
Office or store where eye glasses were obtained: ___________________________________________
CURRENT DIAGNOSIS: ___________________________________________
CURRENT TREATMENT PLAN:

☐ Eye glasses should be worn:
  ☐ All of the time when awake
  ☐ Only when the child needs to see small things that are far away
  ☐ Only when the child needs to see small things that are within arm’s length

☐ An eye patch should be worn:
  ☐ To cover right eye ☐ To cover left eye
  ☐ Total of ___ hours per day (___ hours at home, ___ hours at school)
*If the child has eye glasses, the child should wear their eye glasses when they wear the patch.

☐ Eye drops will be used instead of a patch and will be given by the parent at home. These eye drops will cause the pupil to get larger and the vision to blur in the better-seeing eye.

ADDITIONAL NOTES AND/OR RECOMMENDATIONS: ___________________________________________

Parent/Guardian Signature: ___________________________________________ Date: ______________
Doctor Signature: ___________________________________________ Date: ______________
Health Manager/School Nurse Signature: ___________________________________________ Date: ______________
Impact of integrated vision health interventions on follow-up care for children who failed vision screening in head start programs in Boston, MA

Karine Martirosyan, MD, MPH
Jennifer Pawson, BA, MS, RN
Karen Hampanda, MPH, PhD candidate
Katherine Majzoub, RN, MBA
Catherine A. Johnson, OD, FAAO
Impact

Aim

• To evaluate the impact of integrated vision health interventions on follow-up care for children who failed Head Start vision screening.

Methods

• A cross sectional study of data from two school years (2007-2008 and 2011-2012) was used to evaluate follow-up for children who failed vision screening.
Impact/Results

• All children enrolled in Head Start had a vision screening within 45 days of entry.
• In 2007-2008, 572 children failed screening and were referred for follow-up care; 14% received timely eye examinations.
• In 2011-2012, 419 children failed vision screening; all children received timely eye examinations and treatment.
Conclusion

Increased access to eye examinations/treatment, increased parent and staff awareness of pediatric vision issues and community based solutions have resulted in timely follow-up care for all referred children.
Thank You!

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Vision Care Resources

Who is OneSight? [www.onesight.org]

- OneSight is an independent nonprofit committed to eradicating the global vision care crisis.

- In 27 years OneSight has helped 9 million people in 40+ countries see clearly by partnering with leaders from the optical industry to provide quality eyewear and vision care.

- OneSight provides charitable and sustainable solutions to meet both the immediate and long-term vision care needs of underserved communities, both internationally and domestically.
OneSight Resources

What is OneSight's solution?

- OneSight is leading the global effort to provide permanent access to vision care

- OneSight believes sustainable infrastructure is essential to empowering communities for long-term success. They work closely with local governments, health departments, school districts, and ophthalmic partners, equipping them with programs to support vision care

- OneSight programs are:
  - Charitable 1-2 week vision clinics
  - Voucher Program
  - Sustainable Vision center inside a school health center

- Central manufacturing and supply chains support local demand for clinic supplies and glasses
OneSight Resources

Charitable vision clinic

Qualifications:

- Annual school vision screening program
- 600 to 2000 children who have failed vision screening
- Financial need- no insurance, CHIP or undocumented
- Health Consents for permission to treat
OneSight Resources

Voucher Program

Qualifications:

✓ Annual school vision screening program
✓ Successful School referral program
  ✓ Good public transit system- assistance with $$
  ✓ Large Urban cities
✓ Financial need- no insurance, CHIP or undocumented
OneSight Resources

Sustainable Vision Center

Qualifications:

- Annual school vision screening program
- Large School District- 20-30,000
  - Sustainable health center with multiple services
  - Transportation for children from other schools
  - Room to add a vision center- 800 to 1800 sq. ft.
- Financial need- no insurance, CHIP or undocumented
Vision Care Resources

Who can help?

National & State Optometric Partners
www.aoa.org/affiliated-associations

Prevent Blindness
http://www.preventblindness.org/

Association of schools and colleges of Optometry
http://www.opted.org/about-asco/member-schools-and-colleges/

American Academy of Pediatrics
www.aap.org/healthtopics/visionhearing.cfm

The Foundation of the American Academy of Ophthalmology
www.aao.org
Vision Care Non-Profits

Who can help?

National & State non-profit Partners
✓ http://www.aoafoundation.org/vision-usa/

VSP-Global- eyes of hope
✓ https://vspglobal.com/cms/vspglobal-outreach/home.html

Essilor Vision Foundation
✓ http://usa.essilorvisionfoundation.org/
Eye Exam and Eye Glass Resources

Prevent Blindness:  www.preventblindness.org
✓ Contact Prevent Blindness to find your local branch
1-800-301-2020 -choose 0 to speak with a receptionist

✓ Prevent Blindness will connect you with a local partner

✓ Provide all application materials needed for local partner

✓ Depending on the status of the patient, a voucher for either an exam, a pair of glasses, or both can be provided.
Eye Exam and Eye Glass Resources

Sight for Students

Process:

- To find a partner go to: [www.sightforstudents.org](http://www.sightforstudents.org)
  - Click: Finding a partner
  - Type in your address or zip code
  - Click Search, a list of partners in your area will appear
  - Contact the partner of your choice and schedule a meeting
School-Based Health Alliance

Coming Soon: 2016

Vision Care Support

- Vision Services Blue Print
- Vision Care Support on the Mapping Tool
- Resources for:
  - OneSight Voucher Program
  - OneSight Charitable Clinic’s
  - OneSight Vision Center Sponsorship
Thank You!

www.onesight.org
BECOME A MEMBER!
Membership

Join Now: Individual - $100
• A national voice advocating for SBHCs at the federal level
• Access to exclusive members-only content on the website (including archived resources)
• News and resources in special, members-only Weekly Updates
• Access to customizable patient education materials on influenza (courtesy of MedImmune)
• And more....

Join Now: Organizational - $500
• All individual member benefits
• Discounts on professional services and products
• Weekly e-mail updates and action alerts
• Letters of support for grants
• Recognition in School-Based Health Alliance’s annual report and on its website
• And more....

www.sbh4all.org/membership
Questions?

Please enter your questions into the “Question” box of the GoToWebinar control window.
Additional Questions?  
Contact us at:  
info@sbh4all.org  
Thank You for Attending