

Vision In Preschoolers (VIP) Study Group

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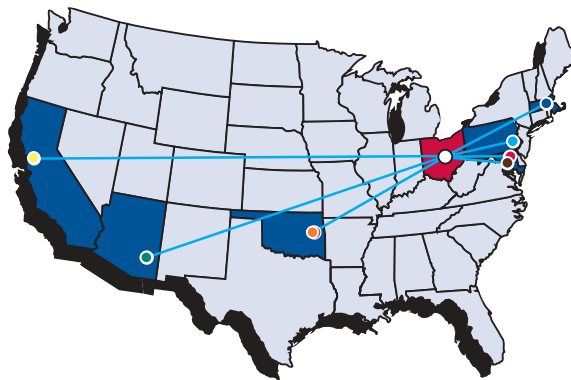
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Vision In Preschoolers (VIP) Study Sites



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Visit us on the web at:

<http://optometry.osu.edu/research/vip>

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<http://www.nei.nih.gov/neitrials/static/study85.htm>

Phase II



Vision In Preschoolers Study

*The primary goal of the VIP Study is
to determine whether there are vision
screening tests which can accurately
predict those three- and four-year-old
preschoolers who would benefit from a
comprehensive vision examination.*

*Funded by the National Eye Institute
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Vision In Preschoolers

What is the VIP Study?

The VIP Study is a prospective, multi-center, multi-year, multi-phased interdisciplinary clinical study to establish the accuracy of tests used to screen for significant and prevalent vision disorders among 3- and 4-year-old Head Start preschoolers.

What is the goal of the VIP Study?

The goal of the VIP Study is to determine whether a single vision screening test or combination of tests can be used effectively to determine which 3- and 4-year-old Head Start preschoolers would benefit from a comprehensive eye examination to detect VIP-targeted vision disorders.

What are the vision disorders targeted by the VIP Study?

The vision disorders targeted for detection in the VIP Study are amblyopia, strabismus, and significant refractive error.

What are amblyopia, strabismus, and refractive error?

- **Amblyopia** is reduced visual acuity in one or both eyes not improved solely with refractive correction and not attributable to other obvious ocular anomalies.



- **Strabismus** is an "eye misalignment" or inability to direct the two eyes in the same direction simultaneously.
- **Refractive Error** occurs when light entering the eye is not precisely focused on the retina, causing blurred vision.

Each of the following is a refractive error category:

- ◆ **Anisometropia** is an unequal spherical or cylindrical refractive error between the two eyes.
- ◆ **Astigmatism** is an unequal amount of refractive error in the principle meridians within an eye.
- ◆ **Hyperopia** occurs when light enters the eye and the point of focus is behind the retina which results in blurred vision.
- ◆ **Myopia** occurs when light enters the eye and the point of focus is in front of the retina which results in blurred vision.

What screening tests will be evaluated?

In Phase II of the VIP Study, the following instruments/tests are being further evaluated for screening the vision of preschoolers:

- Lea Symbols Visual Acuity Test
- Randot Stereo Smile Test II
- Retinomax Autorefractor
- SureSight Vision Screener

Each child will be screened on each of these tests twice, once by a pediatric nurse screener and once by a lay screener. Each screener will be trained and certified on each screening test.

How can you tell whether a screening test is accurate?

The following tests are being used by licensed eye care professionals in the Gold Standard eye examination of preschoolers:

- Lensometry
- Visual Acuity
- Cover Test
- Noncycloplegic Retinoscopy
- Versions & Ductions
- Stereoacuity
- Anterior Segment Assessment
- Cycloplegic Drops
- Cycloplegic Retinoscopy
- Ophthalmoscopy

The results of the screening will be compared with the results of the Gold Standard eye examination to determine the accuracy of each screening test.