

## Stereo Smile Stereoacuity II Test



### ***What Are You Testing?***

Stereoacuity testing checks how well the child's two eyes work together.

### ***What You Need to Do the Test:***

1. 5 Stereo Smile Stereoacuity cards and a BLANK card.

**Card A = Demo**

**Card B = 480 sec arc**

**Card C = 240 sec arc**

**Card D = 120 sec arc**

**Card E = 60 sec arc**

**BLANK Card**

2. Two marks on the wall, 40 cm apart. One mark indicates the location of the child's eyes; the other mark indicates the location of the test cards.
3. One pair of Magic (Stereo) sunglasses.
4. A small hand-held mirror.
5. Chairs for the examiner and child.
6. A recording form and pen.

### ***Getting Ready:***

1. Arrange the examiner's chair in front of the child's chair so that the cards can easily be held at a 40 cm distance from the child at his/her eye level.
2. Have the child choose a pair of Magic (Stereo) sunglasses. (Children wearing glasses WILL wear their eyeglasses for this test.)
3. Hold a hand mirror so the child can admire him/herself with the glasses on to help improve behavior and testability.
4. **Card A** is for training purposes and to determine if the child understands the task. The smile face is easy to see even if the child's eyes are not working together.

Any and all use of these documents should cite the following references:  
The Vision in Preschoolers Study Group. Comparison of Preschool Vision Screening Tests as Administered by Licensed Eye Care Professionals in the Vision in Preschoolers Study. *Ophthalmology* 2004;111:637-650. Preschool Vision Screening Tests Administered by Nurse Screeners Compared with Lay Screeners in the Vision in Preschoolers Study. *Invest Ophthalmol Vis Sci* 2005;46:2639-2648.

5. It is more difficult to see the smile face on testing **Cards B, C, D** and **E**. The **BLANK Card** has no smile face visible with or without stereo glasses.

### **How You Do the Test:**

1. The child should sit back in his/her chair.
2. Measure the distance (with the string) between the child's eyes and the test card so that it equals 40 cm.
3. Hold **Card A** (training card) and the **BLANK Card** side-by-side in front of the child.
4. Ask the child to point to the smile face. Shuffle the cards behind your back so as to randomly change the position of the smile face so that **Card A** could be either to the right, left, up or down.
5. Repeat this procedure a maximum of 5 times. Randomize the position of the smile face on each trial, taking care not to present the cards in a pattern (i.e. not R, L, R, L).
6. If the child does not give at least 4 correct responses with **Card A** and the **BLANK Card** (2 errors on up to 5 presentations), stop testing and indicate "**Unable**" on the data form.
7. If the child gives a correct response on 4 of 4 presentations or at least 4 of 5 presentations, replace **Card A** with **Card B**. The testing procedure then proceeds in the same manner as the training. Begin testing with **Card B** and the **BLANK Card**.
8. The **BLANK Card** is always used throughout the procedure with one of the other cards.
9. With **Card B** and the **BLANK Card**, the child must correctly locate the smile face on at least 4 of a maximum of 5 presentations.
10. If the child has trouble seeing the target, show the child the demonstration card again and remind him/her what to look for. If the child is still unable to accurately determine the location of the smile face, stop the test.
11. If the child answers incorrectly 2 times on **Card B**, do not continue the test.
12. If the child is successful on **Card B**, replace **Card B** with **Card D** (initially skipping **Card C**) and retest in the same manner (using **Card D** and the **BLANK Card**).
13. If the child is unsuccessful on **Card D** (answers incorrectly 2 times), replace **Card D** with **Card C** and retest in the same manner (using **Card C** and the **BLANK Card**).

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14. If the child is successful on **Card D** (correctly locates the smile face on at least 4 of a maximum 5 presentations), replace **Card D** with **Card E** and retest in the same manner (using **Card E** and the **BLANK Card**).

### ***What You Tell the Child:***

1. Say to the child: "One of these cards has a smile or happy face on it. Can you point to it?"
2. Provide instruction and encouragement to the child, as needed. Because it takes a few seconds to see the stereo smile face, you need to encourage the child to keep looking at the cards. You can tell the child the "smile" is hiding and that they need to look hard to find it.
3. Smile stickers may be used as an incentive to encourage the child's participation.

### ***What You Write Down:***

#### **Training:**

1. If the child is unable to locate the smile face on the training card 4 times, record "**Unable to do Card A.**"
2. If the child refuses to wear the Magic (Stereo) sunglasses, record "**Unable to do Card A.**"

#### **Testing/Scoring:**

1. Check the last presentation with 4 correct.

**Unable to do Card A** ( )  
**Card A** ( )  
**Card B** ( )  
**Card C** ( )  
**Card D** ( )  
**Card E** ( )

<sub>1</sub> ✓ if incomplete [i.e. if the child got 4 correct on **Card A, B, C, or D**, but did not "fail" (miss 2 out of a maximum of 5 presentations) on the next card (**B, C, D, E**, respectively)].

### ***Remember!***

1. The child is unable to do the test if he/she cannot locate the smile face on the demonstration card on at least 4 of 5 presentations or refuses to wear the Magic (Stereo) sunglasses.
2. Hold the **Blank Card** at exactly the same distance from the child as the other card (**A, B, C, D, or E**).
3. Be sure the cards are vertical and not tilted forward or backward.

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4. Be sure there is no extraneous glare on the cards.
5. A simple flowchart of the order of testing is as follows:

