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SureSight Vision Screener



What Are You Testing?

The Welch Allyn SureSight is a screening autorefractor that identifies nearsightedness, farsightedness, astigmatism and the difference between eyes.

What You Need to Do the Test:

1. Welch Allyn SureSight Vision Screener.
2. Printer for SureSight.
3. Paper for printer.
4. Double-A (AA) batteries for printer.
5. A/C adapter.
6. Tape for attaching printout to the data form.
7. A dimly lit room without sunlight.

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8. An umbrella or curtain to help achieve low level-lighting.
9. A data form and a pen. For specifically designated time periods, a time stamp will be required.

Getting Ready:

1. Make sure the child's name, birth date, test location, and date are on the data form. Either use labels provided by the VIP Study or write (legibly) the information on the data form.
2. Be sure there are fresh batteries in the printer. If they are not fresh, plug the printer into the AC power.

How You Do The Test:

1. If the child is wearing glasses, **do not** remove them prior to testing.
2. If collection of testing times has been requested for the screening, stamp the start time with the electronic stamp in the appropriate box on the data form when you start the SureSight test. Press firmly and let go when the stamp stops printing by itself.
3. Turn the instrument on by pushing any button.
4. Have the child sit/stand with his/her back against a chair/wall.
5. Make sure that the SureSight instrument is set on "**Child**" mode. When set correctly, a picture of a small child will be displayed on the screen (in bottom left corner). If it set on "Adult" mode, press the child/adult picture button.
6. Position yourself at eye level to the child, facing the child straight on.
7. Position the SureSight instrument 14 inches from the child. Push the "Go" button. Direct the child's attention to the flashing green lights/red central light by saying "I am going to take a movie of your eyes." "Look at the red light in the camera...."
8. Look through the peephole and aim the cross target on the center of the pupil (black area of the eye) of the right eye.



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- If you are too far away, you will hear slow low-pitched noises. Slowly move the instrument closer to the child.
 - If you are too close to the child, you will hear a quick high-pitched beep. Slowly move the instrument away from the child.
 - When you are at the correct distance you will hear a steady low tone. If you don't also hear chirps, swirl the instrument slightly within the pupil area. While the measurements are being collected, the instrument will make a high-pitched noise (chirping).
9. When testing of the right eye is complete, you will hear a sound of "ah-dah."
 10. Keep the same working distance. Turn yourself and the SureSight toward the left eye. Double-check and make sure the **L** light is flashing. Align the cross target over the left pupil. Your working distance should be 14 inches.
 11. A "tah-dah" will sound when testing of the left eye is complete.
 12. Aim the instrument at the printer at a distance of at least 3 feet and push the print button. If you are too close to the printer, the printer will print black boxes. If the readings taken do not have a confidence value of **6** or greater, you must take the readings again. Only eyes with a confidence value of 5 or less should be measured again. Up to two repeat sets of readings may be performed.

Note: A reading means that a measurement was taken. Readings may have either acceptable or unacceptable confidence values.

13. **DO NOT TEAR THE PRINT OUT OFF OF THE PRINTER UNTIL TESTING IS COMPLETED.**
14. Check to see if you need to retest one or both eyes. Retest an eye if the confidence number (located on the upper right side of the display) is less than **6**.
15. If the SureSight times out during testing, this is not considered a reading. You can make 3 **consecutive** "attempts" per eye to get a reading and fail (such as timing out). If you don't get a reading for an eye after 3 **consecutive** attempts, mark "**None (unable)**."

Note: An "attempt" means that an effort was made to take a reading but the instrument timed out. There is no data available to print.

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16. If you obtain one or more readings but need to take another reading (because the confidence value is too low) you can make 3 more consecutive attempts to get another reading. If you are unable to get another reading after 3 consecutive attempts, testing stops. Mark the number of readings (not attempts) that you obtained and attach the printout for the readings that were obtained.
17. A third test is needed if the confidence number is less than **6** on the second reading.
18. Do not take more than **3** readings per eye.
19. To retest one eye, press the **R/L** button (softly). To retest the right eye press the R/L button softly until the **R** is flashing. To retest the left eye press the R/L button softly until the **L** is flashing. To start the retest, press the “**Go**” button.
20. To retest both eyes, press the “**Go**” button.
21. Print after the first test and after each retest, but do **not** tear off the printer tape until all measurements for that child have been printed. Advance the paper in the printer by pressing the feed button to provide a margin for taping. Tear off the printer tape and attach the printout to the data form.
22. If more than one reading is taken for an eye, **circle the first reading** with a confidence value of **6** or greater. Make sure the circle goes around the confidence rating and the measurement values, and does not go over the printing.
23. **Note:** Attach printout by taping only at the top and bottom edges. Do not tape over any results.
24. If you obtain a reading but the printer does not print a measurement for an eye, do **not** mark “**None (unable)**” on the data form. Report the number of readings that were obtained for the eye. If the refractive error and confidence score are available from the machine’s display, write them in the box on the printout on the data form. Label the values for each eye “Right” or “Left.” If the values are not available from the machine’s display, write “No Printout.”
25. If the printout shows black boxes instead of values, print again and count it as one reading.
26. For specifically designated time periods, a time stamp will be required. Stamp the end time with the electronic stamp in the appropriate box on the data form. Press firmly and let go when the stamp stops printing by itself.

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What You Tell The Child:

1. Tell the child to sit very still.
2. Tell the child to look at the red light inside the green lights.
3. Tell the child to open his/her eyes wide “like you are surprised” and keep them open.

What You Write Down:

1. For specifically designated time periods, a time stamp will be required. Stamp the start time with the electronic stamp in the appropriate box on the data form.

Start Time Stamp

2. The unit prints the measurements for you. Tape the printout to the data form **before** the child leaves the testing area.
3. Mark the number of readings taken per eye in item **#A2 a** and **#A2 b** on the data form. If the child does not allow the machine to be positioned properly for measuring an eye, or if the machine does not provide a reading for an eye, mark “**None (unable)**” on the data form for that eye.
4. You can attempt to get a reading and fail (such as timing out) up to 3 times per eye. If there are no numerals on the display for any of the measurement attempts, “**None (unable)**” should be marked for that eye. In addition, “**instrument failure**” should be written on the data form. If the machine malfunctions, an Interrupted Test Report Form should be filed.
5. If you obtain a reading but the printer does not print a measurement for an eye, do **not** mark “**None (unable)**” on the data form. Report the number of readings that were obtained for the eye. If the refractive error and confidence value are available from the machine’s display, write them in the box on the printout on the data form. Label the values for each eye “Right” or “Left.” If the values are not available from the machine’s display, write “No Printout.”

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6. If you obtain one or more readings but need to take another reading (because the confidence value is too low) and then fail 3 times in your attempt to get a reading (because the instrument times out), mark the number of readings that you obtained and attach the printout for the readings that were obtained.
7. For specifically designated time periods, a time stamp will be required. Stamp the end time with the electronic stamp in the appropriate box on the data form.

A2 Number of readings per eye

a. Right Eye

None (unable) ()
One ()
Two ()
Three ()

b. Left Eye

None (unable) ()
One ()
Two ()
Three ()

Remember!

1. Make sure the child's name, birth date, test location, and date are on the data form.
2. Make sure you stamp the start time on the data form.
3. Make sure the SureSight is in "**Child**" mode.
4. Position the unit straight ahead and level with the child.
5. Rotate the unit to the left eye after right eye measurement.
6. Remind the child to look at the red light.
7. Make sure the printer has enough paper to record the results.
8. Do not tear off the printout until all readings are complete.
9. Advance the paper in the printer by pressing the feed button.
10. Remember to tape the printouts to the data form right after you take the readings. Make sure you don't cover any of the readings with the tape or write on any of the readings.
11. If the confidence number is **less than 6**, retest that eye.
12. You may make **3 consecutive** attempts per eye to get a reading.
13. Do not take more than **3 readings** per eye.
14. For each eye, **circle** the first measurement with a confidence value of **6** or greater.

Remember to stamp the end time on the data form.