

Vision Screening Training

Child Health and Disability Prevention (CHDP) Program
State of California CMS/CHDP
Department of Health Care Services



Revised 7/8/2013

• ELEMENTS OF VISION SCREENING



At each well child the medical practitioner provides these elements of vision screening starting at the child's first well-child visit:

- Patient/family history
- Inspection of the external eye
- Ophthalmoscopic visualization of the red reflex and fundus
- Pupillary reaction to light and accommodation
- Cover-uncover test
- Hirschberg's test (corneal light reflex)

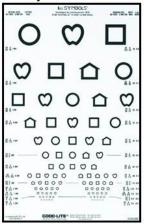


- Other medical staff provide vision acuity screening starting when the child is 3 years of age
- The child should be screened at <u>EVERY</u> well-child visit using a standardized eye chart
- Caregivers may be unaware of signs & symptoms of vision problems or consequences of delayed care

Eye Charts – Ages 3-5 years



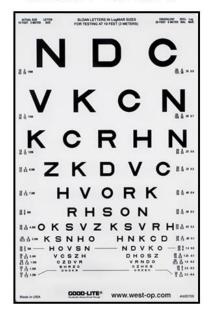
LEA Symbols Chart



Both of these charts meet guidelines for standardized charts by the American Association of Ped. Ophthalmology and Strabismus—including the spacing of the symbols, spacing between lines, legibility of all symbols and 20-foot equivalent measurements on the right side of the chart. Be aware: not all charts sold are "standardized."



Sloan Chart

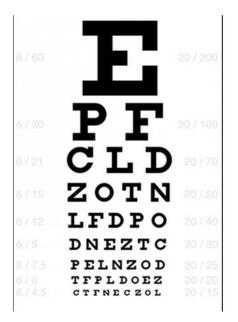


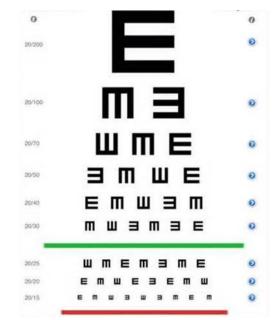
The Sloan Letters Chart is recommended since it meets <u>national</u> and <u>international</u> eye chart design guidelines.

The <u>Snellen Chart is not</u> recommended since it does not meet these guidelines for standardization.

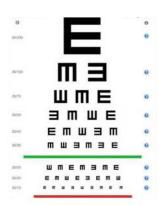
Although the American Association for Ped. Ophthalmology and Strabismus does not recommend the Snellen chart, they do comment that the Snellen chart is still better than no vision testing.



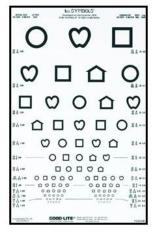






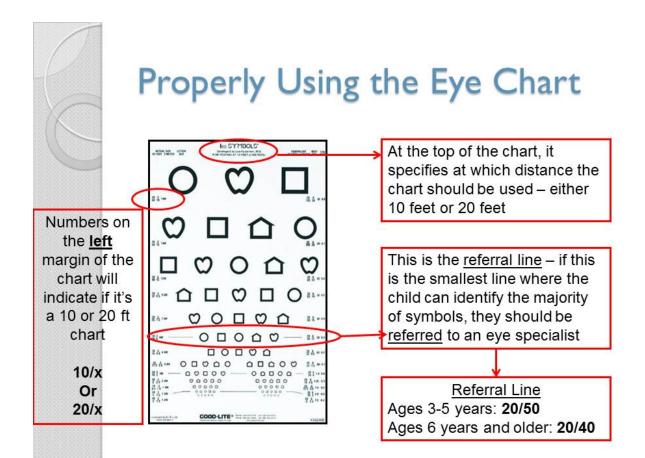


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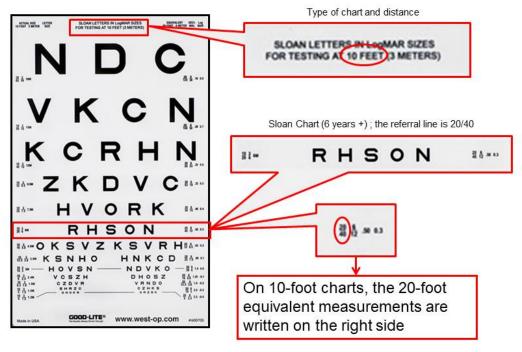




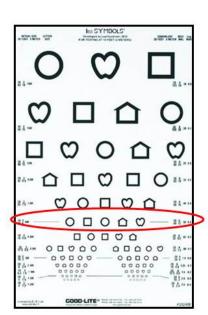


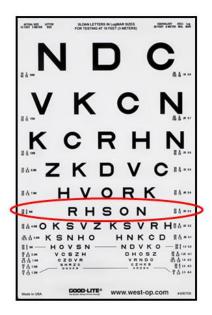


Properly Using the Eye Chart



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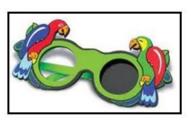




- DO NOT use the child's hand to cover the eye
- Use non-disposable occluder and properly clean with alcohol after each use
 OR
- Use disposable occluder, such as Dixie cup, tongue blades with back-to-back stickers, etc. and discard after each use



- For preschool children, occluder glasses, such as those below, work very well
- Children who wear glasses should also be screened – they can be occluded with a nondisposable occluder or a post-it note attached to the glasses









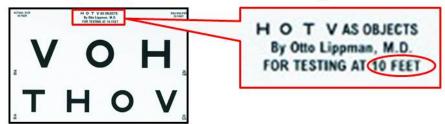
- PM 160 had documentation that states:
 "Child screened without glasses"
- What does this mean? Is this correct?
 Should the child be screened with glasses on?
- Farsightedness = Child uses glasses to read objects that are near



- Screen in a quiet, well-lit area, free from traffic and distractions
- The eye chart should be positioned so the referral line is at the eye level of the child
 - For preschool-age children, this is about 40 inches from the floor to the referral line
 - Ages 3-5 years, referral line is 20/50
 - Ages 6 years and older, referral line is 20/40



- The "heel line" should be marked on the floor – either 10 feet or 20 feet from the chart
 - Refer to the specific chart to know which distance to use (or if it's not indicated—pay attention to the left side margins of the chart)





- Appearance of the eye
 - Examples: red or watery eyes; swelling around eyelids; slow or unequal pupils
- · Behavior of the child
 - Examples: Rubs eyes frequently, shuts or covers one eye, squints eyes to see better, blinks excessively; the child may also thrust their head forward when trying to focus or move closer to objects to see
- Complaints from the child (Headaches or pain)
- Document any concerns so the provider can investigate further during the exam



- Smile often. Be enthusiastic. Stay positive.
 - You are part of the environment. Make it fun and the child will be more cooperative. You have a great influence over the child's comfort and engagement.
- Give only one direction at a time.
- · Give verbal praise after each answer.
- Promise a sticker at the end of the matching game.
 Encourage the child throughout the game.
- If able, screen the other eye of the child.



- Use the practice flash cards to condition the child to the LEA shapes
 - · Lets the child get familiar with the game
 - Lets the screener learn what the child calls each shape
- Ask the child to call out the shape that matches the shape on your chart.



- If child is resistant to talk:
 - Option #1: Ask the child to point to the card that matches the shape on your eye chart.
 - Option #2: Place the individual flash cards on the floor in front of the child and ask the child to step on the shape that matches the shape on your eye chart.



- Select the eye chart based on the child's age
 - For ages 3-5, use the HOTV or LEA Symbols chart
 - For age 6 and older, use the Sloan Letters chart
- The child should stand with their heels on the "heel line"



- Screen the right eye first by placing the occluder over the left eye
 - The child SHOULD NOT hold the occluder a teacher, aide or a member of the medical staff should hold the occluder over the child's eye
 - It is <u>highly recommended</u> that you use <u>occluder</u> <u>glasses</u>, especially with young children
- Start one line above the referral line
 - Ages 3-5 years, start at the 20/60 or 20/63 line
 - Ages 6 years and older, start at the 20/50 line



- To pass a line, the child must correctly identify one more than half of the figures on that line (3 out of 5 figures on most charts)
- If the child fails on any line, repeat the line in reverse order
- Continue to the smallest line of figures the child can pass and record the number on the PM 160 and the child's medical record
- Children have short attention spans. So if the child identifies 3 figures correctly move on to the next line



- To how you point to the letters/symbols on the chart
- Best practices state
 placing your
 finger/pointing device
 directly under the
 letters/symbols causes
 the least amount of
 confusion for the child.
- Make sure you do not cover any part of the letters or symbols



DOCUMENTATION AND REFERRAL



- The person can see from 20 feet what a person with normal vision can see from 20 feet
- 20/40 vision means the person can see from 20 feet what a person with normal vision would see from 40 feet

Documentation on the PM 160

 Record the smallest line of figures the child can pass (refer to Screening Procedure), for example:

OD 20/20 (right eye)

OS 20/20 (left eye)

OU 20/20 (both eyes)

 If the child does not pass, record the failed screening on the PM 160 and the child's medical record



- Visual acuity of 20/50 or worse in either eye for children age 3 through 5 years
- Visual acuity of 20/40 or worse in either eye for children age 6 years and older
- A two line difference or more in visual acuity between the eyes (e.g. 20/25 in one eye and 20/40 in the other eye)
 - Even if both eyes "pass" the screening, a two line difference or more between the eyes means they failed the screening, and should be referred to an eye specialist (this is one way to screen for amblyopia/lazy eye)







Blurred View

Normal View

Fig. 1 Amblyopia occurs when one eye experiences a blurred view and the other a normal view, but the brain only processes the normal view

- This is what the zebra would look like through the eyes of a child with Amblyopia
- Over time the eye that "sees" the blurry image will be completely ignored by the brain

PM 160: Failed Vision Screening

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History or clinical observation

- Head tilting, squinting, nystagmus (repetitive, uncontrolled movements of the eye)
- Injury to or around the eye, or other clinical findings consistent with possible vision problem

Any abnormalities

• Abnormal alignment of the eyes, cataracts, eye muscle imbalances

All children who are not testable because of special medical problems

"High Risk" children

- Prematurity, family history of congenital cataracts, retinoblastoma, metabolic or genetic diseases
- significant developmental delay or neurologic difficulties, and systemic disease associated with eye abnormalities)



- Younger children (under the age of 7 years)
 with vision problems should see an eye
 specialist as soon as possible certain eye
 conditions can cause permanent vision loss if
 left untreated in young children
- Younger children tend to present with vision conditions that require a referral to an ophthalmologist more often than older children (e.g.Amblyopia, Strabismus, etc.)
- Optometrist (OD) vs Ophthalmologist (MD)

PM 160: Questionable Result

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PM 160: Incomplete Screening

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- If a child who is <u>3 years</u> of age is unable to complete the screening, a second attempt should be made <u>4 to 6 months later</u>
- If a child who is <u>4 years</u> or older is unable to complete the screening, a second attempt should be made <u>in I month</u>
- Shyness, inattention or poor cooperation may be related to a vision problem



Pm 160: Vision Recheck

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PM 160:Vision Recheck

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- Refer to appropriate specialty provider who accepts Medi-Cal
- For children with <u>Temporary Full-scope Medi-Cal (through CHDP Gateway)</u> stress the importance of seeing the specialty provider prior to expiration of temporary Medi-Cal
- Pink copies of the PM 160 must be given to the parent/family for each visit. They can bring the pink copy to their eye appointment



It is the responsibility of the referring clinic or provider to:

- Maintain a referral log to track the status of the referral
- Follow-up with the parent/guardian as needed

THANKYOU!



73

Child Health and Disability Prevention (CHDP) Program State of California CMS/CHDP Department of Health Care Services



Vision Screening Training Evaluation Form

Training Date:			<u></u>	
Address:			title day day day the first type and the time that any the first day day	. And were state and any state that the state state that the state and the state and the state and the state and
Note: On scale 1-4, 4 being the best, please	e rate the facilit	rator(s) on the f	Collowing:	
Please check the box to respond to the foll- TRAINING FACILITATOR/	owing training Poor	areas: Fair	Good	Excellent
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Knowledge				
Presentation				
TRAINING CONTENT	Strongly Disagree	Disagree	Agree	Strongly Agree
I was well informed about the objectives of this workshop	1	2	3	4
The training materials provided were useful	1	2	3	4
The contents were relevant	1	2	3	4
TRAINING RESULTS	Strongly Disagree	Disagree	Agree	Strongly Agree
The program met my expectations	1	2	3	4
I will be able to use what I learned in	1	2	3	4

Completion of this evaluation is needed to receive a certificate of attendance.

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Vision Screening Skills Check-Off

Pass Fail	1. Correctly identifies vision placement.	chart, heel line length, and heel						
Pass Fail	_	ve level, identifies age appropriate screening at 1 line above the referral						
Pass Fail	□ Age 6+ : Re fe mal Line 20/40; Be							
Pass Fail	4. Correctly identifies criteria for "passing a line" and moves to the next line. Child identifies 1 more than half figures							
		e, repeats the line in reverse order						
Pass Fail	5. Correctly records the res	ults for Right Eye and Left Eye.						
Pass Fail	6. Appropriately identifies failed screening criteria. Age 3-5: Visual acuity 20/50 or worse in either eye Age 6+: Visual acuity 20/40 or worse in either eye 2 line difference or more between the eyes, even if they "pass" both eyes							
Pass Fail	7. Appropriately refers child	l who has failed screening.						
Pass Fail Skills as taught by this training. This partic ipant has correctly demonstrated the vision screening skills as taught by this training.								
		e tion until your certificate a nives by email ne of CHDP Staff:						
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