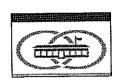
Mandated Screening Workshop

Provided by:





In collaboration with:



Massachusetts Department of Public Health School Health Services



Mandated Screening—Tabletop Discussion

Planning and Training:

- 1. You have per diem nurses on your screening team. What systems and training should you put into place to ensure quality screening is being done? How will you check them?
- 2. Plan a screening schedule: You have 500 1st-3rd graders. The average class size is 22 students. You have four nurses who can conduct the screening. With this help, you know that on average it takes about one hour to screen a 1st grade class and about 45 min per 2nd or 3rd grade class.
 - a. How much time would it take to screen the whole school?
 - b. What do you need to account for in your schedule?
 - c. How would you need to adjust your schedule if one (or two) of your screeners canceled at the last minute?
 - d. What considerations should you make for children with special needs?
 - e. What systems would you need to put in place if you need to locate screenings in different rooms that are far apart (i.e., hearing in one room and vision in another). How would you ensure students know what to do and everyone completes all screens?
- 3. How do you ensure that you don't screen children whose parents have opted them out?
- 4. What plans do you need to put into place to capture students missed during your screening or who "failed" but you think this was due to less than ideal screening situations (i.e., too many distractions, room too loud, etc.)?
- 5. What plans do you need to put into place for emergencies or interruptions, such as:
 - a. The fire alarm sounds
 - b. The school goes into lockdown
 - c. A crisis occurs in a classroom
- 6. Space is a real problem everywhere.
 - a. What basic elements must be in place to protect the privacy of your students?
 - b. You've been told the only place you can conduct BMI and postural screens is in the gym. Can you protect student privacy in this situation and how would you do it?

Table of Contents

	<u>Page</u>
Mandated Screening Training Packet Information	1
Vision, Hearing, Height, Weight, BMI, and Postural Screening Guidelines	2
Body Mass Index Screening	
BMI Screening Checklist	3
Equipment and Tools for Proper Measurement of Health and Weight	4
Protocols for Measuring Height and Weight	5
Guidelines for Measuring Non-Ambulatory Students	7
Sample Pre-Screening Parent/Guardian Letter	10
Hearing Screening	
Protocol	11
Sample Referral Letter	12
Vision Screening	
Preschool and Kindergarten Protocol	13
Vision Screening Protocol Grades 1-12	14
Sample Vision Screening Procedures	15
How to Obtain Vision Screening Supplies	18
Memorandum: Instrument-Based Pediatric Vision Screening in MA Schools	21
Sample Vision Referral Letters	24
Postural Screening	
Procedures	28
Worksheets	31
Follow-up	32
Sample Referral Letters	34
Sample Data Collection Sheets	39
Planning and Implementation of Mandated Screening Protocols in Schools	41



Mandated Screening Training Packet

Important note: The materials in this packet summarize the key information School Nurses need to plan and conduct their mandated health screenings of school-aged children in Massachusetts. It is intended to be used as a quick reference only. Massachusetts School Nurses are responsible for knowing the detailed statutes, regulations and guidelines for all health screenings; the links are listed below. For complete information on screening regulations and guidelines see the MDPH School Health Screening site at http://www.mass.gov/eohhs/gov/departments/dph/programs/community-health/primarycare-healthaccess/school-health/school-health-screening.html

105 CMR 200 Physical Examination of School Children:

http://www.mass.gov/eohhs/docs/dph/regs/105cmr200.pdf

Massachusetts General Laws (MGL) c71, s57 (Statute):

https://malegislature.gov/Laws/GeneralLaws/PartI/TitleXII/Chapter71/Section57

BMI Screening Guidelines:

http://www.mass.gov/eohhs/docs/dph/com-health/school/bmi-screening-guidelines-for-schools.pdf

Postural Screening Manual:

http://www.mass.gov/eohhs/docs/dph/com-health/school/psmanual04.pdf

Vision Screening Protocol:

http://www.mass.gov/eohhs/docs/dph/com-health/school/vision-letter.pdf

Pre-School Screening Protocol:

http://www.mass.gov/eohhs/docs/dph/com-health/school/preschool-vision-protocols.pdf

School Health Manual – View Health Assessment- Chapter 5 (includes hearing screening details):

https://www.neushi.org/student/programs/attachments/shi SHManual.pdf

Vision, Hearing, Height, Weight, BMI, and Postural Screening Guidelines

		(aO /a				
		Vision		Hearing	Ht, Wt, BMI	Postural
	Distance Acuity	Near Acuity	Stereopsis	Pure Tones		
	Monocular R and L	Binocular	Binọcular			
KG*	×	N/A	Х	×		
1st	×	×	Х	X	×	
2nd	×	×	X	X		
3rd	×	×	X	X		
4th	×	×			×	
5th	×	×				×
6th	خ	?		į		×
7th	ċ	ئ		نے	×	×
8th	خ خ	٤		٤		×
9th	3	7				×
10th	2	2		Ċ	×	
11th	2	2		2		
12th	2					

without a Preschool Vision Screening or complete eye exam. *KG and incoming students should have vision screened within 30 days if they present

Schools must also conduct vision and hearing screenings in at least one grade from grades 6th - 8th and one grade from grades 9th to 12th

Resources:

http://www.mass.gov/eohhs/gov/departments/dph/programs/community-health/primarycare-healthaccess/school-health/school-health-screening.html http://www.mass.gov/eohhs/docs/dph/regs/105cmr200.pdf

Body Mass Index Screening

BMI Screening of Children and Adolescents in the School Setting Checklist ☐ Notify students, parents or legal guardians, school staff and administrators and school physician prior to implementation of the screening program. ☐ Provide educational materials on healthy eating and active living to parents and guardians. (Use the resources provided in Appendix D. Resources of these guidelines and visit www.mass.gov/massinmotion/ for more information). ☐ Recruit and train all staff who will be involved with the screening program. Review confidentiality and communication issues with screeners. Make sure that appropriate equipment is available and has been properly maintained and calibrated. ☐ Select and prepare appropriate space for screening. Be sure to provide a private setting (not an open space such as a gymnasium) for measurement of heights and weights. Ensure student privacy and confidentiality when recording the results of the screening Use appropriate tools for documenting and calculating the results ☐ Submit BMI results to MDPH using appropriate on-line data reporting tools. Locate the link in the memo found below for instructions to submit data from all public schools on an annual basis at http://www.mass.gov/eohhs/docs/DPH/com-health/school/bmi-reporting-datamemo.pdf

IV. Equipment and Tools for Proper Measurement of Height and Weight

A. Required Equipment



For measuring weight, use a properly calibrated balance-beam or strain-gauge floor scale (mechanical or digital) that:

- can weigh in 0.1 kilogram or 1/4 pound increments;
- has a stable platform;
- has the capacity to be "zeroed" after each weight is taken; and
- has the capacity to be calibrated.

For measuring height, use a stadiometer that:

- is able to read to 0.1 centimeter or 1/8 inch;
- has a large stable base; and
- has a horizontal headpiece that is at least 3 inches wide that can be brought into contact with the most superior part of the head (i.e., the crown).
- Movable headpieces which are attached to balance-beam scales are not recommended for use.



To ensure an accurate BMI calculation:

- if you use inches for height, please use pounds for weight
- if you use centimeters for height, please use kilograms for weight

B. Maintenance and Calibration of Equipment

- Check the equipment regularly to ensure accurate measurements.
- Scales should be calibrated on a routine basis.
 - o Re-calibrate if the scale has been moved to a different surface.
 - o Portable digital scales, frequently moved, should be calibrated monthly.
 - o For scales that are not moved or used excessively, calibrate annually by contacting the local Department of Weights and Measures (http://www.mass.gov/ocabr/government/oca-agencies/dos-lp/).
- Check the stadiometer regularly to be sure the base is stable and measures are accurate.

From: *BMI Screening Guidelines for Schools. 2014.* Massachusetts Department of Public Health. Downloaded 11/28/2016 from: http://www.mass.gov/eohhs/docs/dph/com-health/school/bmi-screening-guidelines-for-schools.pdf

V. Protocols for Measuring Height and Weight

To accurately weigh and measure students, the following procedures should be followed:

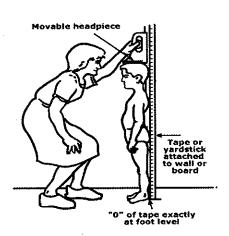
A. Weight

- Make sure that the scale is on a firm surface, preferably an uncarpeted floor.
- Set the scale at zero reading.
- Have student remove shoes.
- Have student remove heavy outer clothing, such as sweater, jacket, vest and belts.
- Have student empty their pockets of heavy objects such as cell phones or iPods.
- Have student step on scale platform facing away from the scale, with both feet on platform, and remain still.
- Read weight value to nearest ½ pound or 0.1 (1/10) kilogram.
- Record weight immediately on the data form before student gets off the scale.
- If using a balance-beam scale, return weights to zero position.

B. Height

- Have student remove shoes and hat.
- Have student remove hair ornaments, buns, and braids to extent possible (note on chart if unable to obtain an accurate measurement, don't "guesstimate" height of hair-do).
- Have student stand on footplate portion with back against stadiometer rule.
- Have student bring legs together, contact at some point (whatever touches first).
- Make sure that the knees are not bent, arms are at sides, and shoulders are relaxed.
- Make sure that the back of the student's body touches/has contact with stadiometer at some point.
- Make sure that the body is in a straight line (mid-axillary line parallel to stadiometer).
 Check to see if the student's head is in appropriate position. You should be able to draw a straight (perpendicular) line from the back of the board, past the ear opening and the top of the cheek bone. You can use a pencil or ruler to help check the line. This is called the Frankfort plane.
- Lower headpiece snugly to crown of head with sufficient pressure to flatten hair.

- Read value at eye level in an upward direction (from lowest to higher number).
- Measure to nearest 0.1 centimeter or 1/8 inch and record value.
- Repeat measurement, having the child line up again, and record appropriate value immediately on data form.
- Repeat measurements should agree within 0.5 (½) centimeter or ¼ inch. If they do not, repeat measurement a third time.



(PA Department of Health, 2004)

Reading Height Measurements

- Read at eye level
- Count visible lines
- If the arrow points at a line, count that line
- If the arrow points between lines, read to nearest line
- Use .5 (1/2) line as guide
- Read in upward direction (from lower to higher number)

VI. Measuring Non-Ambulatory Students

Assessing the weight status of non-ambulatory students with special health care needs requires special consideration as children may not be able to stand up or lie flat. Alternate methods are available for measuring children requiring special accommodations.

(See Appendix B for more detailed information on measuring non-ambulatory students.)

APPENDIX B. Guidelines for Measuring Non-Ambulatory Students

The following is a brief sample of guidelines when measuring non-ambulatory students with special health care needs. These guidelines were compiled by Judy Slaked, Project Director at the Brown University Institute for Community Health Promotion.

Assessing growth status of students with genetic or other medical conditions requires special consideration. In the event that it is necessary to collect height and weight information in the school setting, be sure that the screening is conducted by a health care professional such as the school nurse, occupational therapist or physical therapist. In addition, be sure that parents or legal guardians are also informed in advance of the screening.

In general, the purpose of measurements for children who may have atypical growth patterns should be for monitoring the progress of the individual child over time and not used to compare the child with others, even those who may have similar conditions. Remember that BMI is used to indicate measures of body fatness. With some conditions that involve muscle wasting and abnormal bone growth, the standard BMI reference percentile curves would not be an appropriate comparison point.

Possible options for assessing weight for children who cannot stand

- Use a bucket seat scale if child is within size and weight limits for the equipment.
- Use a chair scale.
- Use a bed scale.
- Use a platform scale on which a wheelchair can be placed (subtract the weight of wheelchair).
- A caregiver may hold a child on the scale, and then the caregiver's weight is subtracted (make note of procedure used to obtain weight, due to potential for error).

Assessing stature and length in special situations

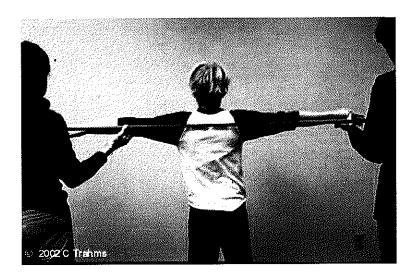
1. For children unable to stand but generally normal in body development and growth, their recumbent (lying down) length can be taken as follows:

- Two people are needed.
- One person (parent or caregiver) holds crown of head against headboard.
- Check the head position Frankfort plane (same as for standing height: head positioned so that imaginary perpendicular line can be drawn from the board surface through the middle of ear canal opening across side of face and lower bone of eye socket).
- Trunk and pelvis should be aligned straight along measuring board.
- The second person straightens the legs, holds the child's ankles together with toes pointed directly upward.
- The footboard is moved firmly against soles of **both** feet.
- The measurement made to nearest 1/8 inch or 0.1 centimeter.
- Repeat measurements until two agree within 1/4 inch or 0.5 (1/2) centimeter.

2. For children with normal development but unable to stand, arm span can be measured. The arm span, when accurately measured, should equal stature 1:1 if growth is normal.

- This method is appropriate for children older than age five, with involvement of the lower body only (e.g., some children with myelomeningocele or lower body paralysis).
- Arm span measurement requires two people to complete measurements.
- The child extends both arms while the anthropometer or measuring rod is held across the back, extended from the tip of one middle finger to the other (Trahms, 1997).
- Arms are held perpendicular to body.
- The anthropometer should touch the tip of the extended middle fingers of the right and left hands.
- Repeat measurements.
- This measure provides information about rate of growth (arm span to height ratio is about 1:1 with typical development).

NOTE: Arm span measurements can be plotted on the CDC charts for stature-for-age or length-for-age.



Arm Span Measurement

This is a photo of correct technique for arm span measurement. Note that the child's arms are perpendicular to his body and the anthropometer is touching the extended middle fingers of the right and left hands.

3. For children unable to stand and/or have severe contractures, their sitting height can be measured.

- Use a stadiometer and surface for sitting (typically 50 cm x 40 cm x 30 cm, which can be rotated depending on the size of child).
- Have the child sit on the base as erectly as possible.
- Buttocks should be in contact with stadiometer board, as well as the back and shoulder blades if possible, with back as straight and erect as possible.
- Legs should hang freely, with hands on thighs, and knees pointed straight ahead.
- Head should be positioned in the same manner as standing height (Frankfort plane).

From: *BMI Screening Guidelines for Schools. 2014.* Massachusetts Department of Public Health. Downloaded 11/28/2016 from: http://www.mass.gov/eohhs/docs/dph/com-health/school/bmi-screening-guidelines-for-schools.pdf

- Repeat the measurement until two agree within 1/4 inch or 0.5 (1/2) centimeter.
- After taking the measurement, subtract the height of sitting surface from the reading to estimate the sitting height.
- Plot this value to indicate the individual pattern of growth, even though a percentile will not be indicated.

4. Segmental lengths: Upper arm length and lower leg length

- Some children for whom stature measurements are impossible can use segmental lengths (for example, upper arm length and lower leg length) to monitor growth.
- Upper arm length is not as affected by a high spinal lesion as stature. It is recommended for children with Spina Bifida who are bedridden, wheelchair bound, or for other children unable to stand or stretch out on the length board (Cloud, 1997; Scott, 1997).
- The arm is straight and positioned along the side of the body.
- The elbow is bent so that the lower arm is at a right angle (90 degrees) to the upper arm.
- Flexible metal or sturdy plastic measure tape is placed with the tip at the end point of the shoulder bone (acromial process).
- The tape is brought straight down along upper arm to tip (point) of the elbow.
- Record the measurement to nearest 1/8 inch or .1 centimeter.
- Repeat measurements should fall within $\frac{1}{4}$ inch or .5 (1/2) centimeters.
- For children with cerebral palsy or other conditions that cause or result in <u>contractures</u>, the lower leg length can be measured using either a steel or plastic tape measure or an anthropometer. This is a difficult measurement to take and, when taken, should be used with children ages 6-18 years old (<u>Cloud, 1997; Scott, 1997; Chumlea, Guo, Steimbaugh, 1994</u>).
- These measurements may be plotted on the CDC charts for stature-for-age or length-for-age. Even if measurements fall below the 5th percentile, they establish a growth pattern over time. Reference data exist for some segmental lengths (e.g., knee height), however they are old and do not include children with special health care needs or children who are non-ambulatory (and therefore may have different growth patterns) (Chumlea, et al, 1994).



BMI SCREENING*

A. Sample Pre-Screening Notification Letter to Parents and Legal Guardians

[School Letterhead]

[Date]

Dear Parent or Legal guardians:

This letter is to let you know about the Body Mass Index (BMI) Screening Program that will be happening soon at your child's school.

A Body Mass Index, or BMI, is a measure that is used to show a person's "weight for height for age." It is calculated using an individual's height and weight. Just like a blood pressure reading or an eye screening test, a BMI can be a useful tool in identifying possible health risks, but it does not provide a diagnosis.

Massachusetts schools have taken heights and weights of students each year since the 1950's. According to the state's new BMI screening regulations (which were approved in 2013), schools must now collect the heights and weights of students in grades 1, 4, 7 and 10. BMI data collected for all children in these grades will be gathered and reported to the Massachusetts Department of Public Health as a combined number. No individual student BMI results will be shared with anyone other than to you.

The school nurse will supervise your child's screening and will make sure your child's privacy is respected at all times. The results of your child's height, weight, and BMI measurements are strictly confidential – the results will be kept in your child's school health record and will not be shared with anyone without your written permission.

This year, the BMI screening will take place in [insert month of screening]. All children in grades 1, 4, 7 and 10 will have their height and weight measured and will have their Body Mass Index (BMI) calculated at this time. Parents and/or legal guardians can request in writing that their child not participate in the screening. This letter should be addressed to the school nurse.

Please feel free to call me at [insert phone number] with any questions you may have about the BMI screening. Additional information about children's wellness and fitness is available upon request or you may access the state's resources at www.mass.gov/massinmotion/.

Sincerely,

School Nurse [you may also consider having the principal co-sign the letter]

Hearing Screening



Pure Tone Audiometer Hearing Screening Protocol

- Plug in/turn on audiometer 10 minutes before beginning screening
- Seat child at 90 degree angle from screener and audiometer
- Put head phones on child with Red ear piece on Right ear.
- Adjust headband
- Instruct student to raise hand when he/she hears sound/beep/tone, and to put hand down when tone stops.
- Start with Right Ear
 - o Start at 1,000 HZ at 50 dB Right Ear
 - o Go to 30 dB at 1,000 HZ
 - o Go to 20 dB at 1,000 HZ
 - Next go to 2,000 HZ at 20 dB
 - o Then go to 4,000 HZ at 20 dB
- Switch to Left Ear
 - o Start at 20 dB 4,000 HZ
 - o Go to 20 dB at 2,000 HZ
 - o Go to **20 dB** at **1,000 HZ**
- Test complete!
- Note:
 - o If at any frequency (Hz) level, the child does not hear the sound, increase the decibels (loudness) by 10 and repeat process until child hears tone.
 - o Document this finding: right ear, 2000 Hz, 40 dB.
 - Any finding that does not reach objective of 20 dB suggests need for retesting at later date, or referral.

SAMPLE

School Health Office Letterhead

	<u>He</u>	earing Screenin	g Referral	
Student Name:		D.O.B:	Grad	le:
Dear Parent/Guardia	an:			
Your child,		_, was recently giv	en a Hearing	Screening test (puretone) or
(Date) . The	results indicat	te the need for furth	ner evaluation	Screening test (puretone) or and possible treatment. We
recommend that you evaluation.	ı take your chi	ld to his or her phy	sician or to ar	n ear specialist for further
Initial Test Date: _	<u>.</u>	Retest Date:		
Initial Test Date: _ Results: Outside of	Normal Limit	S		
Right	DB	Let	ft	DB
1000 Hz:		100	00 Hz:	
2000 Hz:		200	00 Hz:	
4000 Hz:			00 Hz:	
DOCTOR'S REPO Health Care Provi				
Provider Phone/A	ddress:			
Date of Exam: Diagnosis/Signific Treatment Plan: None at this Observation Next Scheduled	s time n	_		
Recommendation	s Pertaining to	o School Work:		
Physician Signatu	re	.,	Date	

Vision Screening

Massachusetts Vision Screening Protocol Preschool and Kindergarten: Evaluate Linear Distance Visual Acuity and Stereopsis

Function to be Evaluated	Specific Test	Recommended Testing Procedure	Passing Criterion
1) LINEAR DISTANCE VISUAL ACUITY	MassVAT (Massachusetts Visual Acuity Test) flip cards with HOTV letters or Lea symbols or Wall Chart HOTV or Lea symbols wall chart	Test distance: 10 feet Pretest: (Performed Binocularly) Test child's ability to perform the test by having child identify or match all 4 letters or symbols when presented up close. Test procedure: (Performed Monocularly) Test child's ability to identify or match optotypes on the critical line. CRITICAL LINE: 20/40 at 36 to 47 months 20/30 at 48 months and older	Child must identify or match 4 out of 5 letters or symbols on the critical line with each eye tested <i>monocularly</i> , being careful to watch for peeking.
2) OCULAR ALIGNMENT and STEREOPSIS	Random Dot E	Test distance: 4 feet All testing, including pretesting, should be done binocularly with the polarized glasses on. Pretest: Test child's ability to perform the test by having the child identify the location of the 3-dimensional E correctly on 4 out of 5 presentations. Test procedure: Test child's ability to identify the location of the stereo E. Five presentations should be used, varying the location in a random manner.	Child must locate stereo E on 4 out of 5 presentations. Done binocularly with the polarized glasses on.

Massachusetts Vision Screening Protocol Grades 1 through 3: Evaluate Linear Distance/Near Visual Acuity and Stereopsis

Grades 4 through 12: Evaluate Linear Distance/Near Visual Acuity

Function to be Evaluated	Specific Test	Recommended Testing Procedure	Passing Criterion
1) LINEAR DISTANCE VISUAL ACUITY	GRADES 1-3: line letters, HOTV, or tumbling E's GRADES 4-12: line letters. Numbers, tumbling E's or HOTV may be used if child is unsure of letters	Grades 1-12: Wall chart placed at distance (10 or 20 feet) or testing machine with distance slide Test procedure: All acuity tests are performed monocularly. Test child's ability to identify optotypes on the critical line. CRITICAL LINE: 20/30 Monocular visual acuity	Child must identify 80% of the letters or symbols on the critical line with each eye tested monocularly, being careful to watch for peeking. Letters or symbols must not be presented one at a time.
2) LINEAR NEAR VISUAL ACUITY	GRADES 1-12: line letters, HOTV, tumbling E's, or numbers	Near card at 14 inches or testing machine with near slide. This test is done with both eyes open. CRITICAL LINE: 20/30 Binocular visual acuity	Child must correctly identify 80% of the letters/symbols on the critical line of the near card or the near slide in the testing machine.
3) OCULAR ALIGNMENT and STEREOPSIS	GRADES 1-3: Random Dot E	Test distance: 4 feet All testing, including pre-testing, should be done binocularly with the polarized glasses on. Pretest: Test child's ability to perform the test by having the child identify the location of the 3-dimensional E correctly on 4 out of 5 presentations Test procedure: Test child's ability to identify the location of the stereo E. Five presentations should be used, varying the location in a random manner.	Grades 1-3: Child must locate stereo E on 4 out of 5 presentations Grades 4-12: Binocular balance testing does not need to be done

Vision Screening Protocol

SAMPLE Nursing Services Manual

Massachusetts Vision Test School Guidelines (March 2006) Grades 1-3 (ages 6 years to 9 years 11 months)

1. External Observation

- Note any variances
- Rescreen before referral

2. Far Vision Screening

Objective: Screen at 20/30 monocular distance acuity. Identify 4 out of 5 **HOTV symbols** to pass.

- Using OPTEC 2000, turn machine on
- Far/near button out -Far
- Set slide location at Far dial 1 for HOTV symbols
- Right eye on, left eye off
- Have child look straight in machine
- · Read white line

i. THVTO

- Right eye off, Left eye on
- Read line 6

i. OTVHT

• Identify 4 out of 5 to pass

3. Near Vision Screening

- Objective: Screen at 20/30 binocular near acuity, identify 4 out of 5 HOTV Symbols to pass
- Far/near button out -Near
- Set slide location at Near dial 3 for HOTV Symbols
- Have child look down in machine
- Using both eyes, read yellow line

i. THVTO

• Identify 4 out of 5 to pass

4. Random Dot E

Objective: Child wearing polarized glasses is able to identify three dimensional object 4 out of 5 times.

- Have child sit or stand
- Place polarized "magic Glasses" on child. If wearing glasses, put polarized glassed over child's own eyewear.
- Show sample Random Dot E card with raised image. Let child touch picture.
- Practice using sample card and blank stereo card, at close proximity, shuffle cards behind back and show grey side of cards to child. Ask child to identify the card with the picture that stands out. Practice several times.
- Move to testing distance of 48 inches. Using test card and blank stereo card, shuffle the cards behind your back and have him identify the card with the image at 4 times in a row, or 4 out of 5 tries, to pass.
- Retest if child does not pass, before referral.

Massachusetts Vision Test School Guidelines (2003) Grades K-3 (ages 5 years to 9 years 11 months)

1. External Observation

- Note any variances
- Rescreen before referral

2. Far Vision Screening

- Objective: Screen at 20/30 monocular distance acuity, identify 4 out of 5 HOTV symbols to pass
- Using OPTEC 2000, turn machine on
- Far/near button out –Far
- Set slide location at Far dial 1 for HOTV symbols
- Right eye on, left eye off
- · Have child look straight in machine
- Read white line

i. THVTO

- Right eye off, Left eye on
- Read line 6

i. OTVHT

Identify 4 out of 5 to pass

3. Near Vision Screening

- Objective: Screen at 20/30 binocular near acuity, identify 4 out of 5
 HOTV Symbols to pass
- Far/near button out –Near
- Set slide location at Near dial 3 for HOTV Symbols
- Have child look down in machine
- Using both eyes, read yellow line

i. THVTO

Identify 4 out of 5 to pass

4. Random Dot E

- Have child sit at table.
- Show sample Random Dot E card with raised image. Let child touch picture.
- Show child **magic glasses**. If child wears glasses, magic glasses go over his/her glasses.
- Aide or screener put on their magic glasses and child tries his on.
 Show child sample card again and explain that you will show him two new cards, one that has a similar picture and one that does not.

- Shuffle the cards behind your back and have him identify the card with the image 4 times in a row, shuffling behind your back each time. Perform at 20 inches, then repeat at 40 inches.
- Child passes if he can identify the card with the image 4 times in a row at each distance or 4 out of 5 times. You may need to allow for some practice time.



The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
250 Washington Street, Boston, MA 02108-4619

MITT ROMNEY GOVERNOR

KERRY HEALEY
LIEUTENANT GOVERNOR

TIMOTHY R. MURPHY SECRETARY

PAUL J. COTE, JR. COMMISSIONER

August 22, 2005

HOW TO OBTAIN THE PRESCHOOL VISION SCREENING SUPPLIES

On July 15, 2004 Governor Romney signed Chapter 181, a new law requiring that:

"Upon entering kindergarten or within 30 days of the start of the school year, the parent or guardian of each child shall present to school health personnel certification that the child within the previous 12 months has passed a vision screening conducted by personnel approved by the department of public health and trained in vision screening techniques to be developed by the department of public health in consultation with the department of education...For children who fail to pass the vision screening and for children diagnosed with neurodevelopmental delay, proof of a comprehensive eye examination performed by a licensed optometrist or ophthalmologist chosen by the child's parent or guardian indicating any pertinent diagnosis, treatment, prognosis, recommendation and evidence of follow-up treatment, if necessary, shall be provided."

Thus, it is now mandated in Massachusetts that:

- all preschoolers have a vision screening done within 12 months prior to their entry into kindergarten.
- all children with neurodevelopmental delay, and all children who fail the vision screening, be referred for a comprehensive eye examination by an ophthalmologist or optometrist.

For consumers wishing to purchase the supplies required to conduct the screening, please feel free to contact the vendors listed below to compare pricing and to obtain the best value and service. Please know that the vendors listed below are not endorsed or certified but simply recognized as a supplier of the materials required to conduct the screening. The MDPH will update this list from time to time. The vendors are arranged on the list alphabetically.

For vendors who provide the full range of supplies and services for conducting the Preschool Vision Screening in accordance with Massachusetts statutes and regulations who are not listed below, please contact the Massachusetts Department of Public Health by calling Tom Comerford at (617) 624-6022 to be included on the list.

The Massachusetts Department of Public Health does not endorse any particular vendor but acknowledges that the following vendors can provide the supplies needed to complete the Preschool Vision Screening.

PRESCHOOL VISION SCREENING

SUPPLIES NEEDED TO COMPLY WITH NEW 2005 GUIDELINES:

1. MASS VAT DISTANCE SCREENING TEST BOOK -- RECOMMENDED
10 FOOT DISTANCE SCREENING -- SPIRAL BOUND BOOK
ALSO APPROVED HOTV WALL CHART 10 FOOT AND LEA SYMBOL WALL CHART 10 FOOT

AVAILABLE FROM:

BURKE SPECIAL PRODUCTS
92 POPES LANE, PO BOX 405 HINGHAM MA. 02043
TEL--800-873-9800 FAX -781- 749-2692 <u>EMAIL-BURKESP@COMCAST.NET</u>
ORDER NO.---BSPMASSVAT

MACGILL MAIL ORDER CATALOG

1000 N. LOMBARD RD.

LOMBARD,IL 60148

TEL-800- 323-2841 FAX-800-727-3433

ORDER NO. SOOO3 E-MAIL: MACGILL@MAGILL.COM

(HOTV WALL CHART 10 FOOT AND LEA SYMBOL WALL CHART 10 FOOT ONLY)

PRECISION VISION
944 FIRST ST, LASALLE, IL 61301
TEL-800-772-9211 FAX-815-223-2224 EMAIL--PRECISION-VISION.COM

SCHOOL HEALTH CATOLOG 865 MUIRFIELD DRIVE HANOVER PARK,IL 60133 TEL-800-323-1305 FAX-800-235-1305 <u>E-MAIL</u>: <u>DSALVUCCI@SCHOOLHEALTH.COM</u> ORDER NO. MASSVAT 52523 LEA 52524

2. RANDOM DOT E KIT

AVAILABLE FROM:

BURKE SPECIAL PRODUCTS 92 POPES LANE PO BOX 405 HINGHAM, MA 02043 800-873-9800 FAX-781-749-2692 ORDER NO. BSP-RDE

MACGILL MAIL ORDER CATALOG 1000 N. LOMBARD RD. LOMBARD,IL 60148 TEL-800- 323-2841 FAX-800-727-3433 ORDER NO. SOOO3 SCHOOL HEALTH CATOLOG 865 MUIRFIELD DRIVE HANOVER PARK,IL 60133 TEL-800-323-1305 FAX-800-235-1305 ORDER NO. H52-305



DEVAL L. PATRICK GOVERNOR JOHN W. POLANOWICZ SECRETARY CHERYL BARTLETT, RN COMMISSIONER

The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
250 Washington Street, Boston, MA 02108-4619

Tel: 617-624-6060 Fax: 617-624-6062 www.mass.gov/dph

To:

School Nurses

From:

Mary Ann Gapinski, Director, School Health Services

Date:

September 2, 2014

Subject:

Instrument-Based Pediatric Vision Screening in Massachusetts Schools

MEMORANDUM

The Massachusetts Department of Public Health (MDPH) is pleased to provide your school district an update on instrument based vision screening (photoscreeners/autorefractors and other instruments). Given recent research and the availability of this technology, this memo provides clarification to school health service programs on accepting results from Primary Care Providers (PCP) for entry into Kindergarten and using these devices to conduct the screening.

Instrument-Based Vision Screening is approved only for 3-5 year olds

The Department of Public Health has consulted with its pediatric ophthalmology/optometry consultants and with the Department of Elementary and Secondary Education as required by statute. We will allow school health programs to accept documentation from a Primary Care Provider (PCP) who conducts a vision screening for any child ages 3-5 and who uses this technology. Also, in the absence of a PCP's written record on entry into kindergarten indicating the screening has been done; school nurses may conduct this screening on children in this age group with this technology. Vision screening documentation is required by statute for children entering kindergarten (MGL Chapter 71 Section 57).

This position is consistent with the "<u>American Academy of Pediatrics (AAP)</u>, <u>Instrument-Based Pediatric Vision Screening Policy Statement</u>" (November 2012) (http://pediatrics.aappublications.org/content/130/5/983.full</u>). PCP's can document the screening on the "<u>Massachusetts School Health Record – Health Care Provider's Examination</u>" form (http://www.mass.gov/eohhs/docs/dph/com-health/school/health-record-form.pdf) or issue written proof of screening results in another form. According to the AAP, Instrument-Based Pediatric Vision Screening Policy Statement (2012), these screening devices are recommended as an alternative to visual acuity screening with vision charts for this 3 through 5 year old age group.

Regardless of the type of photoscreening or autorefraction system used, it is recommended that the screener know how to use and apply the technology properly understanding the limitations of the instrument and test in relation to the children's age. It is suggested that if your school acquires one of these devices that staff are knowledgeable and trained in the use of the technology and insure privacy with any transfer of electronic data into a student health record.

Instrument-Based Vision Screening is not approved for children age 6 or older

The current standard is that children are screened annually through grade 5 (or up to age 11 in ungraded classrooms), once in grades 6 through 8 (or ages 12 through 14 in ungraded classrooms), and once in grades 9 through 12 (or ages 15 through 18 in ungraded classrooms) be screened. Conducting these screenings with these instrument based screening devices is **not** recommended at this time. The AAP Policy statement indicates more research needs to be completed on these older age groups and it has no recommendation for mass screening at this time.

The MDPH is in agreement with the AAP that vision screening be performed at an early age and at regular intervals with age-appropriate, valid methods, ideally within the medical home. Amblyopia, a neural deficit in vision, is the most common cause of visual impairment among children, affecting approximately 2 to 3 out of every 100 children. The AAP, Instrument-Based Pediatric Vision Screening Policy Statement (2012), states that a primary goal of vision screening in young children is the detection of amblyopia at an early age. Visual impairment not detected at an early age has a direct impact on academic success.

During the first seven to ten years of life, the visual system develops rapidly. Important connections between the eye and the brain are created during this period of growth and development. Unless it is successfully treated in early childhood, amblyopia usually persists into adulthood. It is also the most common cause of monocular (one eye) visual impairment among young and middle-aged adults. For review of vision screening protocols please visit: http://www.mass.gov/eohhs/docs/dph/com-health/school/vision-letter.pdf

Massachusetts Vision Screening Statute and Regulations

As stated in MGL Chapter 71, Section 57 and associated Regulations 105 CMR 200.000, "Physical Examination of School Children" 200.400 - Vision and Hearing Screenings:

(A) In accordance with Massachusetts General Law, Chapter 71, Section 57, upon entering kindergarten or within 30 days of the start of the school year, the parent or guardian of each child shall present to school health personnel certification that the child within the previous 12 months has passed a vision screening conducted by personnel approved by the Department of Public Health and trained in vision screening techniques to be developed by the Department of Education. For children who fail to pass the vision screening and for children diagnosed with neurodevelopmental delay, proof of a comprehensive eye exam performed by a licensed optometrist or ophthalmologist chosen by the child's parent or guardian indicating any pertinent diagnosis, treatment, prognosis, recommendations and evidence of follow-up treatment, if necessary, shall be provided.

- (B) The school committee or board of health shall cause the vision of each student in the public schools to be screened in the year of school entry, annually through grade 5 (or by age 11 in ungraded classrooms), once in grades 6 through 8 (or ages 12 through 14 in ungraded classrooms), and once in grades 9 through 12 (or ages 15 through 18 in ungraded classrooms). The vision of each student shall be tested by means of the Massachusetts Vision Test or other comparable method approved by MDPH.
- (C) For any student who does not pass a vision or hearing screening, a written plan shall be developed by the school nurse, in consultation to the extent possible with a students' parent or legal guardian, for appropriate follow up of the student. With the consent of the parent or legal guardian, the students" primary care provider shall be furnished with a copy of the record of screening tests performed in the school.

For further information on laws and regulations, please visit our websitehttp://www.mass.gov/eohhs/gov/departments/dph/programs/community-health/primarycare-healthaccess/school-health/

If you have any questions regarding this memorandum, please contact your School Health Advisor.

SAMPLE School Vision Referral

Date.
Dear Parent/Guardian,
School vision screening tests, recently performed at, indicate that your child,, was tested (with glasses/contacts on) and did not pass the screening.
Children's eyes can change over a period of time. Perhaps you already have had your child examined by an ophthalmologist. If so, please write a note to that effect and have the enclosed form completed by the eye specialist and return it to the school health office.
If your child has not seen an eye specialist recently, it is advisable to have an examination as soon as possible. When you go, please ask the physician to complete the enclosed form and return it to us.
It is very important that we have this report from the eye specialist to incorporate any recommendations that will assist us in helping your child do his/her best at school.
If you have any questions, please call me at:
Sincerely,
, School Nurse
Enc.

24

School Health Office Letterhead

SAMPLE School Vision Referral

Dear Physician:	School Vision		Date:
As you know, school children are Law. has imple	emented the Enhance	d School Vision G	uidelines developed by DPH
and released in September 2005,	which include far vis	ion (preschool-grad	le 12, near vision (grade 1-12)
and stereopsis for preschool throu	igh 3rd grade.		•
TT	t many the fellowing o	omponent(s) of the	vision screening
The child indicated below did not Screening performed	Tool used for	Screening	Other
Screening personmen	Screening	Result	(glasses/contacts?)
Linear Distance			
Linear Near			
Stereopsis/Ocular			
Alignment			
Color (performed only 'as needed'			
In order that we may provide any below and have the parent return Sincerely,	the form to the school	ol health office.	ia, picase complete the form
, School	ol Nurse		
Tel.:, benow	oi itaise		
	- 		
Child's name:		Date of Exar	nination:
School:		Grade:	<u></u>
Brief summary of significant fine			
Diagnosis:	Treatm	n Visit recommend	ed in months.
Prognosis: I advise the following education	adjustments for the c	hild:	
None at present			
_	T 4	Dagu	
Preferential seating in cla			
Glasses for full-time use	in school		
☐ Glasses for part-time use	in school. Specify:		
Other recommendations_		•	
G:	ות	va /Draotica Norse	
Signature:		ys./Practice Name:	

SAMPLE School Vision Referral Second Notice

Date:			
Dear Parent/Guard	lian,	·	
	The first referral	ling a vision referral on your child was sent	Poor
vision can signification	antly impede your child's abi	ility to succeed in school.	
initiatives impleme school testing is "s are quite high. In a confirm a vision di guidelines in Mass	ented by the Department of P creening" and not diagnostic our district last year,% sturbance. Comprehensive cachusetts include new screen	ogram has been one of the most succeptible. Health over fifty years ago. To, school district referral confirmation of referrals sent and returned for vision hanges to school vision screening aing for stereopsis testing which look a screening, in addition to testing for	hough n rates ion
forwarded me the c	and let me know what the fit completed referral, let me kno	cked, please give me a call at ndings were. If you have already ow and I will try to rectify the situatine original referral was sent, I encould's vision checked.	ion. If rage
I thank you for you Thank you for you	r attention to this matter and attention to this matter.	encourage you to call with any ques	stions.
Sincerely			
	, School Nurse	Tel:	
Cc:	Principal		

School Health Office Letterhead

SAMPLE School Vision Referral Second Notice

Dear Physician:			Date:
As you know, school children are scree Law has implement			by Massachusetts General delines developed by DPH and
released in September 2005, which inc	lude far vision (pre	school-grade 12,	near vision (grade 1-12) and
stereopsis for preschool through 3rd gr	ade.		
The child indicated below did not pass	the following com	ponent(s) of the v	rision screening:
	Tool used for	Screening	Other
	Screening	Result	(glasses/contacts?)
Linear Distance			
Linear Near			
Stereopsis/Ocular			
Alignment			
Color (performed only 'as needed'			
In order that we may provide any educate below and have the parent return the for Sincerely,	ational adjustments	s you recommend, ealth office.	please complete the form
Tel.:, School Nur	se		
Child's name:		Date of Examir	nation:
School:		Grade:	
Brief summary of significant findings:			
Diagnosis:Prognosis:	Treatment:		•
Prognosis: I advise the following education adjustr	Return VI	sit recommended	inmonths.
	nents for the child	•	
None at present			
Preferential seating in classroom	n Front Re	ar	
Glasses for full-time use in scho			
Glasses for part-time use in scho			
Other recommendation	opcony		
Other recommendations			
Signature:	Phys /I	ractice Name	
Address:	TAJ5./1 Talanh	72000 1 (01110) —	

Postural Screening

4.2 POSTURAL SCREENING REVIEW (PROCEDURE)*

Position I

Student stands facing the examiner. He/she should stand erect but <u>relaxed</u>, feet close together with weight evenly distributed, knees straight, arms at side, eyes straight ahead.

Observe the following:

- A. Is one shoulder higher than the other?
- B. Is the waistline the same on both sides or is there a larger space between the arm and flank on the one side?
- C. Are hips level and symmetrical or is one side high or more prominent?

Position II

In order to view the entire back, student's back is toward the examiner. Long hair should either be pinned up or be evenly separated and brought forward in front of each shoulder.

Observe the following:

- A. Does the head lean to one side?
- B. Is one shoulder higher than the other?
- C. Is one shoulder blade more prominent than the other?
- D. Is there a spinal curvature?
- E. Is the waistline the same on both sides or is the arm-to-body space uneven?

Position III

Student stands erect with his side toward examiner.

Observe the following:

- A. Is there an accentuated roundness in the upper back?
- B. Is there an accentuated arching in the lower back?

Position IV

Student bends forward until his back is parallel to the floor. The feet are together, knees straight, the palms of the hands are together and the head is down. Examine from the front and back view.

Observe the following:

Is there a rib hump on one side?

Position V

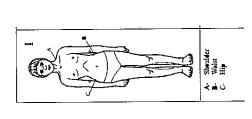
Student bends forward in position IV. View from the side

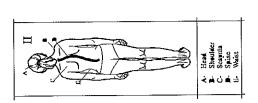
Observe the following:

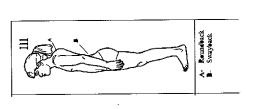
Is there an exaggerated Midline hump?

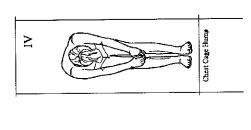
From: Training Material Postural Screening Program. 1996. Massachusetts Department of Public Health. Downloaded 11/28/2016 from: http://www.mass.gov/eohhs/docs/dph/com-health/school/psmanual04.pdf

POSTURAL SCREENING REVIEW









Spine Hump

REFER IF ANY 2 OUT OF 3 PRESENT

A. Shoulder
Is one shoulder higher than the other?

Waist

both sides or is there a larger Is the waistline the same on space between the arm and flank on one side?

higher and more prominent? symmetrical or is one side Are the hips level and

blade higher or more prominent

than the other? Spine

Is the wing on one shoulder

Scapula

other?

Does there appear to be a curve

when you observe the spine? Is the waistline the same on

both sides or is there a larger space between the arm and

flank on one side?

REFER IF EITHER PRESENT REFER IF ANY 3 OUT

OF 5 PRESENT

roundness in the upper back? Is there an exaggerated Roundback

crease in the buttocks or does it

Does the head line up over the

Is one shoulder higher than the

Shoulder

lean to one side?

Is there an exaggerated arch in the lower back? Sway Back

REFER IF PRESENT

symmetrical or is the chest cage prominent or bulging on one side? Are both sides of the back Chest Cage Hump

REFER IF PRESENT

Is there an accentuated midline hump? Spine Hump

> From: Training Material Postural Screening Program. 1996. Massachusetts Department of Public Health. Downloaded 11/28/2016 from: http://www.mass.gov/eohhs/docs/dph/com-health/school/psmanual@4.pdf

4.3 FILLING OUT THE POSTURAL SCREENING WORKSHEET

It is important that the screener include as much information as possible about his/her findings for easy reference in the rescreening. The worksheet presented in this manual has the same content as the Postural Screening Worksheet available in previous years. Only the graphic diagrams were improved for greater clarity.

The pictures on the Postural Screening Worksheet represent the positions in which the student is viewed by the screener. The front, back, and side views each have several areas of focus. Each area has a letter designation. Use these letters on the worksheet to represent your positive findings. Indicate whether positive findings are on the <u>student's</u> left or right side. Positive findings in views IV and V should be indicated by a check mark.

This worksheet is intended as a tool to assist you in the process of screening. The diagrams are those presented on the "Postural Screening Review" form described above. Some suggestions for the "Postural Screening Worksheet" include:

- 1) Record students by sex then list alphabetically. This helps in tallying results for your end of year reporting.
- 2) Xerox multiple copies of this form and retain for future use in your school system.
- 3) Completed forms could be sent and maintained by the Health Services Coordinator/Supervisor within your system. The Massachusetts Department of Public Health requests only the summary statistical report and should not recieve this form in the mail.

						 -			 	,: _{\$}	कृत					 				 -
	10.		Needs School Follow-																	
	Dale	Follow: Up	Date Physician's Referred Tieoment Ib Report Physician Dore				allah . All value managan				and the state of t				MANAGEMENT CONTRACTOR				35	
			Date Referred to Physician							,										
Under Ourent Medoal Featmant	for Pecson, Date Resprecing Screened		Date Fornity Contacted											•				the second secon		
or Medo	Refer for Pecson, Dote (Rescreening Sore		Contim Findings Y/N			 ,-														
Je. Ourse	Refer		\$	-				1				4 P. F					and the second			
[<u>]</u>			N/A			 		1												
>		<u> </u>	Spice Hears	ogramma term	************															
Ν			Chest Case House							٠				- December 1997						
		S	A. Roundback	spirage i addinate may manage			ľ (v vi					-		en rijetjen klematike rijet	4				The Control of the Co	
			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2										1	Saccinet Alexandron Circle 20 d						
_ ©			S S S S S S S S S S S S S S S S S S S											Ì						
reserve the of	Z		0.08																	
Hel	200	90	59×			 	ا ا		 							 <u></u>				
POSTURAL SCREENING WORKSHEET School			nes	***************************************				•												
SCREENIN		Class Size:	Student Names												ì					
POSTUGAL School:	Accies:	Orcces:	Str																1	

4.4 FOLLOW-UP

1. Absentees

Students who were not screened because of absence should be screened at another time.

2. Exclusions

Any student who was excluded from screening for any other reason should have his/her reason for exclusion documented.

3. Screening

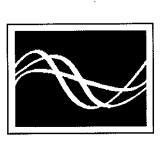
- a) If there is no positive finding in the initial screening of a student, his/her parents will not be contacted.
- b) A separate session should be scheduled for rescreening of all students with positive findings. It is recommended that the original worksheet be used at the rescreening. If initial positive findings are <u>not</u> confirmed, the parents will <u>not</u> be contacted. If a positive finding is confirmed by the person who rescreens, the following steps should be taken:

1. Contact Family

The nurse should first attempt to contact the family by <u>phone</u> (if phone contact is not possible, by letter) to explain that medical follow-up is being recommended as a precaution. Parents should be assured that many findings will be of no consequence, but medical observation might be necessary to determine that the signs are not getting worse. Families will be advised to bring their sons or daughters to their primary care physicians (family physician, pediatrician or internist). If families do not have a primary care physician and use emergency rooms for primary care, they should be encouraged to establish contact with a primary care physician.

- 2. Send "Follow-up Letter to Parents".
- 3. Obtain from family their choice of physician.
- 4. Send "Letter to Physician". The nurse will make every effort to ensure that medical follow-up takes place.
- 4. Referrals: National Scoliosis Foundation: Referral Services (781) 341-6333
 - a) The school screening coordinator or designee should maintain a record of referred students whose physician reports that there's nothing wrong but about whom there is continuing concern on the part of the screeners. These students should be tracked in the following way:
 - 1. They ought to be seen by the school physician who can be in communication with the student's own physician.

- 2. If the student's physician continues to feel that no further action is indicated, the student should be rescreened in three to six months by the school screener.
- 3. If the screener's concerns persist, the family ought to be contacted again and a second opinion encouraged.
- b) The school nurse and physical educator should both be informed about students whose physicians have prescribed braces. The school nurse may need to supervise skin care. In most cases students who wear braces will be encouraged to participate in a wide range of physical education activities but the physical educator will need to be informed about each physician's recommendations



PROGRAM

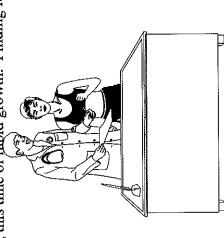
POSTURAL SCREENING

This screening is similar to other school health checks such as vision and hearing testing. It is done either by the physical education teacher or the school nurse and is free.

Why do the screening? 9 out of 10 young people have completely normal spines.

And in most others, a curve in the spine is usually mild and does not get worse-though it should be watched.

Those curves that do get worse may result in medical problems, pain, and obvious physical deformity if not treated. The best prevention is a postural screening once a year between the ages of 10-14. A curve is most likely to appear during this time of rapid growth. Finding it



early is important for the best treatment.

In most cases the cause is unknown. It

cannot be prevented.

Sometimes it runs in families.

"CURVATURE-OF-THE SPINE"

What is it?



It is not

contagious.

than boys.

Can you

feel it?

need

Girls

treatment more often

> curve spine front

from

back is

in the early stages.

No, not
 No, not
 No, not

A It is even difficult to see in the early stages unless you know exactly what to look for.

called KYPHOSIS or ROUNDBACK.

ADA side-to-side curve, called SCOLIOSIS, is the type which most often needs treatment.

What causes it?

From: Training Material Postural Screening Program. 1996. Massachusetts Department of Public Health. Downloaded 11/28/2016 from: http://www.mass.gov/eohhs/docs/dph/com-health/school/psmanual@4.pdf

How is it treated?

Most people with a mild curve will only need medical observation.

(4) If the curve grows worse, a back brace is worn until bone growth stops. This does not limit most activities. Special exercise may also be included.

Din extreme cases, spinal surgery is performed.

What if it is not treated?

It is possible that medical problems will occur later in life which can include:

obvious physical deformity

pain and arthritic symptoms



heart and lung disorders.

How is the screening done?

A simple 30 second observation of the back: first standing, then bending forward.
 Screeners look for any unevenness of shoulders, hips, or one side of the back.
 Al Shirts are removed for better viewing. Boys and girls are screened separately. Girls should wear a two-piece bathing suit or a halter top and shorts.

Where is the screening done?

actually in the privacy of the school nurse's office or small physical education room. The Postural Screening Program is conducted in Massachusetts schools in grades 5-9. It serves to assist in the early detection of spinal problems. The school does not provide treatment, but can direct those who should have further attention to appropriate medical help.

POSTURAL SCREENING PROGRAM

One out of every ten young people ages 10-14 will develop some "curvature-of-the-spine"... But most will not need treatment. Getting checked early can help avoid a serious problem.

A School Health Service of the Massachusetts Department of Public Health

From: Training Material Postural Screening Program. 1996. Massachusetts Department of Public Health. Downloaded 11/28/2016 from: http://www.mass.gov/eohhs/docs/dph/com-health/school/psmanual84.pdf

SAMPLE INITIAL LETTER TO PARENTS

SAMPLE

SCHOOL SYSTEM LETTERHEAD

Dear Parent or Guardian,						
The	School will	be doing	an annual	Postural	Screening	g on
The purpose of this is to find early signs of I	possible spinal	problems	in children	in grades	5-9. It is 1	not a
diagnostic service but a program to identify y	oung people v	vho should	have further	r medical	evaluation	l•
If your child has any unusual findings, yo	ou will be notif	ied and ask	red to take tl	ne child to	a physicia	an as
a precaution. The majority of students exhi	bit no finding	s. If nothi	ng unusual	is found,	we will no	ot be
contacting you again until the screening next	year.					
Female children are asked to bring a TW	O-PIECE SWI	MSUIT O	R HALTER	TOP AN	D SHORT	S to
school the day of the screening. This type of	clothing perm	its more ac	curate obse	rvation of	the back.	
If you have any questions, please contact	me at	<u> </u> •				
	Sincerely,					
	(School Phys	ician/Nurs	e)			

SAMPLE FOLLOW-UP LETTER TO PARENTS

SAMPLE

SCHOOL SYSTEM LETTERHEAD

RE: Child's Name: Birth Date: Grade:	Date:
Dear Parents,	
Your child,, re	cently participated in the Postural Screening
program which is recommending that he/she be seen by a	physician. This program is not a diagnostic
service, but does provide screening for postural problems,	some of which may need medical attention
Therefore, it is recommended that your child be seen by your	family physician, pediatrician, or orthopedist
The National Scoliosis Foundation is also available to assist	you and/or your family doctor or pediatrician
in referral to a private orthopedic specialist for an examination	n. The National Scoliosis Foundation provides
referral and information services free of charge and is located	at 5 Cabot Place, Stoughton, MA 02072. They
may be reached by telephone at (781) 341-6333 or by FAX ε	at (781) 341-8333.
We would be pleased to work out these details with	n you for the specialty examination before
arrangements are made with the doctor. Please notify me at _	regarding how
you plan to follow this recommendation.	
	Sincerely,
	(School Nurse/Physician)

From: *Training Material Postural Screening Program*. 1996.Massachusetts Department of Public Health. Downloaded 11/28/2016 from: http://www.mass.gov/eohhs/docs/dph/com-4ealth/school/psmanual04.pdf

Date:				,		
RE: Child				DO	B/	Grade
Dear Physician: The above child particip following positive signs:		ostural Screen	ing Program	on	-	and demonstrated the
	A- Shoulder B. Waist C- Hip	A- Head B- Sheulder C- Scapula B- Spine	A- Reundback B- Swayback	IV Chest Cage Hump	Spine Hump	
Please review the findir						y of this referral to the
Sincerely,	J				·	
School Nurse		TO BE CO	OMPLETED B	SY PHYSICAII	N	
I have reviewed the abo and recommend the fol					_	
Physician signature					Date	

Sample Data Collection Sheets

					%				$\overline{}$		$ \top $											ļ						Т	T					
	l				BMI %									-					_						_			_	4	_	_			
	Title				Wt.	ě					i												*											
	Т				Ħ.															•														
	Signature			Comments				,				•			. A LUMBANI	-		Water	and the second s								,			i wan			·	
Recorder:				к ш 干 ш х	۲																						į	•						
Reco			Steropsis																															
hts		Vision												-	,																			
Vision/Hearing/Heights/Weights Teacher:		^	Near				İ																											
ghts/			r		ľ																													
/Hei	•		Far	*****	æ																											R= Refer		
aring Tea		ng		ит⊢по	_																											. = .		
/He		Hearing																								•						P=Pass		
ision				.2477	e)																											۵		
	•				Grade																													
Grade:		DATE:			Student Name						9						7				9		8	6		Į	2	8	-	15	9			
						ī	7	3	4	S	9	7	æ	6	10	11	F	13	14	15	16	17	13	15	7	7	7	23	5	25	7		3	9

SAMPLE Referral Tracking Sheet

Vision/Hearing/Postural) Screening Referrals

Other				90000	THE CONTRACTOR OF THE CONTRACT				Triple de la constante de la c	T T T T T T T T T T T T T T T T T T T	- P.		
Referral Results	1994			7 (000)	1777		***************************************	Timple Timple	TOTAL CONTRACTOR OF THE CONTRA	TOWNS AND TOWNS	THE STATE OF THE S	TANKE TO THE PERSON THE PERSON TO THE PERSON TO THE PERSON TO THE PERSON TO THE PERSON	7.7856.5
Date Referral Returned			The state of the s		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	TANK TANK TANK TANK TANK TANK TANK TANK		1778	-776-00			TRANSAL	
Date Referral Sent Home			7744										Transfer
Date of rescreen			7,000										100
Date of Initial Screen		_	· mayor										
Class													
Child's Name		TOTAL	111000		, many		The state of the s						

Dear School Nurse:

The following pages will you assist you with the planning and implementation of your mandated screenings program(s). Please refer to the resources provided here, as well as in the many resources that were shared before and during the BU SHIELD Mandated Screening Training Program. Also contained in this document, are some tips and best practice guidance as you begin this very important mandated School Nursing duty. Good luck...

Shanyn		
Shanyn A Toulouse, MEd, BSN, RN Northeast Regional Nurse Consultant		
School/District	Nurse	

What you need to know, do, and have available:

★ Attend a Training:

- Prior to planning the mandated screenings in your school, as the School Nurse, you are required to attend a Mass DPH sponsored training. You can then train a team of screeners at your school. Physical Education/Health teachers who assist with Postural and BMI screening must also attend the portions of the training covering those subject areas. Currently, trainings are being provided by the Boston University's School Health Institute for Education and Leadership Development Program (BU SHIELD). An up-to date list of dates, times, locations, and further information on how to register for the trainings can be found on the BU SHEILD website at www.shield-bu.org under "Mandated Screenings." This training is one of the four required trainings to become a MA DESE Certified School Nurse.
- The DPH sponsored mandated screening training is meant to be informational and introductory. After the training, you will use your new knowledge to plan and conduct a screening program at your school. Competency will be gradually gained as you continue to plan and conduct your screenings.

Training attended	Date: _	/_	

★ Inventory your supplies:

o After you have received training, you will have a good idea of the types of supplies you will need. You will need to familiarize yourself with your school specific screening equipment and supplies, as well as ensure that the tools you have are appropriate for use under the current state guidelines. This may mean that you need to purchase new tools or arrange for calibration of your current equipment. There are many different types of tools. Most of the most commonly used tools will have been introduced at the training but not all. For this reason, it is important for you to get to know what you have available and how to properly use and ensure proper maintenance. Outside vendors are available to calibrate screening equipment. Equipment can be ordered through all of the major school health vendors. It is critical to know what types of equipment you. will need BEFORE you order it. It is easy to spend too much if you don't know what you need or purchase inappropriate equipment that is not needed. Do your homework. You can save a lot of money by knowing what you do and more importantly DON'T need. For example, you may be able to do any and all of the vision screenings with very simple wall charts and stereopsis tools (Random Dot E cards and glasses).

	ision Machine Assessment: (If availablewall charts are sufficient!)
	Indicate what type of vision machine you have:
	Indicate which vision machine slides you have available:
	You also must turn the machine on to check to be sure BOTH bulb are working and of equal and sufficient brightness.
Hea	ring Machine(s) (List number of machines, types, models):
	Date last serviced:/
	Date last serviced://
	Date last serviced://
ay.p Pos	tural Screening Tools:
ay.p Pos (Ple http	hp tural Screening Tools: ase see MA DPH Guidelines for BMI Screening in Schools 2014 for more info) ://www.mass.gov/eohhs/docs/dph/com-health/school/bmi-screening-
ay.p Pos (Ple http guic	hp tural Screening Tools: ase see MA DPH Guidelines for BMI Screening in Schools 2014 for more info) ://www.mass.gov/eohhs/docs/dph/com-health/school/bmi-screening- lelines-for-schools.pdf
ay.p Pos (Ple http guic	tural Screening Tools: ase see MA DPH Guidelines for BMI Screening in Schools 2014 for more info) ://www.mass.gov/eohhs/docs/dph/com-health/school/bmi-screening- lelines-for-schools.pdf tadiometer with ability to measure to the nearest ½ inch or cm.
ay.p Pos (Ple http guic	tural Screening Tools: ase see MA DPH Guidelines for BMI Screening in Schools 2014 for more info) ://www.mass.gov/eohhs/docs/dph/com-health/school/bmi-screening- lelines-for-schools.pdf tadiometer with ability to measure to the nearest ½ inch or cm. *ensure wall mounted equipment is placed on wall at the proper height
ay.p Pos (Ple http guic	tural Screening Tools: ase see MA DPH Guidelines for BMI Screening in Schools 2014 for more info) ://www.mass.gov/eohhs/docs/dph/com-health/school/bmi-screening- lelines-for-schools.pdf tadiometer with ability to measure to the nearest ½ inch or cm.
ay.p Pos (Ple http guic □ S	tural Screening Tools: ase see MA DPH Guidelines for BMI Screening in Schools 2014 for more info) :://www.mass.gov/eohhs/docs/dph/com-health/school/bmi-screening- lelines-for-schools.pdf tadiometer with ability to measure to the nearest 1/6 inch or cm. *ensure wall mounted equipment is placed on wall at the proper height cale with ability to be zeroed and should be calibrated annually Date scale last serviced/calibrated: NOTE: It is not recommended to manually calculate BMI with formulas. There are BMI calculators available at the CDC website here:
ay.p Pos (Ple http guic	tural Screening Tools: ase see MA DPH Guidelines for BMI Screening in Schools 2014 for more info) ://www.mass.gov/eohhs/docs/dph/com-health/school/bmi-screening- lelines-for-schools.pdf tadiometer with ability to measure to the nearest ½ inch or cm. *ensure wall mounted equipment is placed on wall at the proper height cale with ability to be zeroed and should be calibrated annually Date scale last serviced/calibrated: NOTE: It is not recommended to manually calculate BMI with formulas. There are BMI calculators available at the CDC website here: https://nccd.cdc.gov/dnpabmi/calculator.aspx Most electronic health
ay.p Pos (Ple http quic	tural Screening Tools: ase see MA DPH Guidelines for BMI Screening in Schools 2014 for more info) :://www.mass.gov/eohhs/docs/dph/com-health/school/bmi-screening- lelines-for-schools.pdf tadiometer with ability to measure to the nearest 1/8 inch or cm. *ensure wall mounted equipment is placed on wall at the proper height cale with ability to be zeroed and should be calibrated annually Date scale last serviced/calibrated:// NOTE: It is not recommended to manually calculate BMI with formulas. There are BMI calculators available at the CDC website here:

☐ I have identified that the following screening tools need to be serviced:_____

REVISED: Nov 2016 SAT

Planning and Implementation of Mandated Screening Protocols in Schools \square I have funds for the purchase and/or maintenance of the screening tools or a plan for acquiring these funds:_____ Plan the screening process: ★ Who: Recruit your screening team... Picking your team is critical to conducting a well-run screening day(s). Of course the nurses will be involved, but who else can you enlist the help of? Please be aware of confidentiality at all times when conducting screenings. Both with the team you select as well as with the process of the day in order to protect the student's' confidentiality with other staff members or amongst their peer groups. Parent volunteers can help. Most often Who will be on your team? How many screeners will you need? This depends on which screenings you are attempting to cluster together. The special education team is a good resource to help assist with vision or hearing screenings. Your speech therapist may be adept at hearing assessment and screenings. Your physical education teacher can assist with postural, height, and weight screenings and should attend a DPH mandated screening program. Parent volunteers may be able to help with logistics, escorting students to and from class, etc., as long as you are not violating confidentiality in any way. Some districts have partnered with local colleges or schools of nursing to assist with screening. It is suggested that a formal Memorandum of Agreement (MOA) is done in this case. Your school may already be partnering with these schools for teacher training and internships. Reach out to the college's Departments of Nursing. My screening team members could/will be:

REVISED: Nov 2016 SAT

Page 4 of 12

Planning and Implementation of Mandated Screening Protocols in Schools ☐ My plan for training my screening team will be:_____ **★** What: Which screenings will you cluster together? Can you do all of them together if you have a large enough team? You might be able to more successfully implement screenings and get buy in from staff if you try your best to do them at a time that is less disruptive to the academic day. Some schools do screenings as part of health or PE class. Some schedule them for a time when other school wide activities are happening. Once you have developed your plan and schedule communicate it far and wide. Consider posting dates/times in the school newsletter as a reminder to all. Parent notification is required. This is often done in the annual Parent Handbook with information about the laws and regulations as well as information about opting out. ☐ Who will be my "go to" people for helping develop a plan to complete all mandated screenings:

★ When:

 Will you need more than one day? It is best to do screenings at the same time every year if possible. Maybe you start with Kindergarten (KG) in the Fall and consider developing a set annual screening calendar. This can also make it easier to fit it into the school calendar for whole school planning purposes. Don't forget to check your current school calendar and work with Administrators and other staff to make sure you're not trying to schedule health screenings during academic assessments, field trips, school wide assemblies, or other school wide events. You might consider doing different grades at different times if that works for your school. You know your communities best and probably already have an idea about what will work best for your school! Consider screening incoming KG and new students within the first 30 days if they do not have a vision screening or exam done prior to starting school. Some districts are able to do the mandated health screenings for kindergarten students in the Spring prior to school entry with the other educational kindergarten screenings. Other districts do the health screenings upon registration.

REVISED: Nov 2016 SAT Page 5 of 12

	for how to begin planning dates and times for screenings will be:
☐ My plan Vision Scre	for how to assure that kindergarten students have had a Preschool eening or new incoming students of any grade have been screened wil
	for how to begin planning dates and times for screenings will
☐ My plan	
- In plan	for how to complete all the mandated screenings will be:
★ Wher	'e:



★ How:

• Will you start with KG students? Will you call one group of students at a time and how many? Do your teachers know the schedule and are they prepared to send you their students? Schools with Pre-K classrooms are not mandated to conduct screenings on this populations but some choose to do so. If you have Pre-K classrooms please note the tools used may be different than tools used for older students. You should consult with DPH or your Regional School Nurse Consultant if you need assistance with selecting tools for use with this population.

☐ My plan for how	•	e screenin	• •		
				· · · · · · · · · · · · · · · · · · ·	

Document:

o Be sure to have student lists printed well ahead of time and that they are accurate. This will cut down on errors in spelling, incorrect students being identified for referral, etc. Sample templates for most of the screenings are provided at the BU SHIELD training. Preferred language for documenting screening results includes "pass" and "refer" (opposed to "fail"). This is a minor difference but can make a huge difference in how children see themselves. Most electronic school health databases will allow you to document (or "group process") your screening results as a whole class with the default setting as "passing" the screening. You will need to go in later and correct the students who you are referring out for further assessment. Remember: we are not diagnosing...we are conducting screenings that may identify a need for further assessment by an outside medical provider or specialist.

Referral:

As mentioned previously, when a student does not "pass" a screening, they are "referred" for further assessment. It can be a good idea for you to call the parent/guardians of the student who you are referring for further assessment. This can also allow you to assess their knowledge of the resources available to them. Perhaps they already have a family eye doctor. Often parents will acknowledge they too have had concerns about their child's vision/hearing/etc. Your conversation with them can reaffirm what they already may suspect. You can use district form letters that you personalize for each student indicating which screening you are referring

REVISED: Nov 2016 SAT Page 7 of 12

out for. Many template form letters are available. As with other features, most electronic school health software programs allow you to print out student specific referral letters based on the data you have input into the system saving a great deal of time. Be sure to keep copies of the referral paperwork. You can use these to track the families who you will need to follow up with later. This can also assist you with what many consider one of the most important parts of the screening process...the follow up!

Follow up:

- o Both general and student specific follow up should be planned. General follow up may include school wide communications to parents prior referral letters will be coming home. You should also let parents know what the school expectations are for when parents should provide any findings from the outside providers, as well as how a problem with vision and/or hearing may impact learning, behavior, or social interactions.
- Student specific follow up MUST be done and should be tracked. Follow up is often a critical missing piece that may cause significant delay in identification and treatment of suspected or probable concerns that will likely be impacting learning unless addressed with proper treatment. School nurses often cite a lack of time or resources for proper follow up. We can and must do better, not only for the academic progress of the student, but also for their social and emotional well-being. New research suggests that many students who may be suffering from low vision conditions may be struggling with behavioral concerns and be misdiagnosed with conditions such as ADHD. It is suggested that some of these children who have been misdiagnosed are even given medication to treat a problem they do not have.
- o If you are finding it difficult to properly follow up, please discuss this with your school's administration and advocate for assistance with this important piece of the mandated screening process. Carefully think about what your follow up plan will be. You might consider creating a timeline of when you want to have screenings completed, a target date or time frame for notifying parents, etc. Don't let too much time pass between when the screenings are complete to when you notify parents.

☐ My Plan for both general and student specific Follow Up will					
be:					

REVISED: Nov 2016 SAT

Planning and Implementation of Mandated Screening Protocols in Schools ☐ I know who my local outside referral resources are or have a plan for helping families locate these services. Other things to know before you start: ★ Practice makes perfect! Go back and play with your tools, machines, and equipment! Have fun... ★ You may need to gather other supplies...clipboards, pencils, tape measures or pre-measured strings, cleaning wipes, eye occluders, picture of footprints to indicate where to stand or tape to mark floor, chairs, tables, privacy screens, children's books, educational handouts, box for storage of all supplies, etc. ☐ I might also need:_____ ★ Confidentiality: You may need to review with screeners to be sure they understand the laws around confidentiality in schools and FERPA. Think about how you will ensure privacy throughout your screening process. This includes before, during, and after the screenings. Do you have adequate private spaces? Could you set up temporary spaces with privacy screens? Many districts review the laws related to privacy and FERPA and have outside screeners or teachers sign a "Confidentiality Statement" to indicate this has been reviewed, will be

★ Child development: Some students who "fail" may think they did something wrong or will get in trouble. Please consider how you talk with students about what this means for them in the context of their developmental stage.

complied with, and the consequences for non-compliance.

☐ My plan for protecting confidentiality will be:_____

★ Parent/Guardian notification: As per the mandate and with other school procedures, parents and guardians must be notified prior to the screenings. Although screenings are mandated, parent/guardians do have an option to "opt out." Consider having a conversation with parent/guardian to be sure they are having these important screenings done at their primary care provider's office or specialists. Often parents/guardians of students with known concerns, such as

REVISED: Nov 2016 SAT Page 9 of 12

scoliosis, choose to opt out because they are closely followed. It is best practice

to request the most recent information from their outside provider for your school records to ensure proper follow up. Don't assume that if they have a known problem it is being followed. ☐ My plan for parent notification will be:_____ * Staff notification: Things will go much smoother if you give staff plenty of notice and it may even be helpful to involve them in the process. I partnered with math teacher by providing aggregate data for a project he was doing! ☐ My plan for staff notification will be:_____ ★ Working with SPED is critical: Massachusetts Legislature enacted Chapter 181 of the Acts of 2004 "An Act Relative To Eye Examinations For Children" which amended Massachusetts General Law, Chapter 71, and Section 57. ... For children who fail to pass the vision screening and for children diagnosed with neurodevelopmental delay, proof of a comprehensive eye examination performed by a licensed optometrist or ophthalmologist chosen by the child's parent or guardian indicating any pertinent diagnosis, treatment, prognosis, recommendation and evidence of follow-up treatment, if necessary, shall be provided." ☐ My plan for working with SPED will be:_____

- ★ Student training: This is only usually necessary in the kindergarten and 1st grade classes. It can also be helpful with student with disabilities.
- ★ Students with SEL or SPED considerations: Some student just won't tolerate the screenings as done and may need to be schedules with you or another screener for a 1.1 session. If a child is declining to "perform" for you...could you have his/her educational assistant or para help you or do the assessment while you supervise? Also see above "Working with SPED is critical..."
- ★ Use "cheat sheets": Some examples were provided in the training. Examples include the "Screening Guidelines" table or a card taped to your vision machine indicating which slides are in which positions.

★ Optimizing your time and resources: As school nurses we are always looking for ways to work smarter, not harder! There may be ways you can work with other team members on initiatives such as SBIRT screenings and schedule these on the same day.

Resources:

Training and Education

BU SHIELD:

Boston University

School Health Institute for Education and Leadership Development http://bucme.org/assets/2021/Mandated-Screening-Documents-Reference-Page-to-Post-11-15-16.pdf

Massachusetts Department of Public Health: School Health Unit

http://www.mass.gov/eohhs/gov/departments/dph/programs/community-health/primarycare-healthaccess/school-health/school-health-screening.html

Calibration and Repair of Screening Equipment

Hearing Machine Calibration

New England Sales and Services 531 King Street, Unit 6 Littleton, MA 01460-1279 Contact: Dan Cominsky Phone: (800) 776-6276

http://www.newenlandsalesandservice.com/home/service-request/

School Health

Calibration, Parts, and Repair Team

https://www.schoolhealth.com/equipment-service/ https://ds5cvxtqu2rt0.cloudfront.net/media/pdf/CalibrationPartsAndRepair.pdf

Other Resources:

NASN's Sight for Students Program (NASN Members only):

https://www.nasn.org/MemberCenter/VSPSightforStudents

American Association for Pediatric Ophthalmology and Strabismus:

https://aapos.org/

https://aapos.org/resources/nurse and primary care ppt lectures/

REVISED: Nov 2016 SAT Page 11 of 12

51