

Health Screening Resources

Tennessee Department of Education | December 2023



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Hearing	Vision	
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Introduction

Students in grades Pre-K, K, 2, 4, 6, and 8 and one grade of high school are encouraged to receive vision and hearing screenings. Additionally, students in grades K, 2, 4, 6, 8, and one grade of high school are encouraged to receive blood pressure (BP) and height/weight screenings. Oral health screenings and scoliosis screenings for female students in grades 5 and 7 and male students in grade 8 are also encouraged. Baseline concussion screening is also encouraged for students who participate in sports.

This document identifies regional resources that school districts partner with to complete health screenings, training tools and resources, insights from CSH coordinators, and frequently asked questions.

The tools and resources provided are not an exhaustive list but may be used by school districts to ensure alignment with evidence-based resources and may be used when planning, conducting, and evaluating school health screening practices and programs. School districts should conduct screenings according to policy and procedure and in accordance with state law.

PACER

Another tool, the Progressive Aerobic Cardiovascular Endurance Run (PACER), is not a health screening but part of the <u>FitnessGram</u> assessment that measures aerobic capacity using estimates of maximal oxygen uptake (VO² max). Aerobic capacity is the body's ability to efficiently use oxygen and is an important health indicator. <u>CDC Healthy Schools</u> includes regular student assessment as a component of a <u>high-quality</u> <u>physical education program</u>. CDC Healthy Schools provides multiple resources for best practices in physical education and how to integrate student fitness assessments into the overall program.

Documentation and Notification of Screening Results

Sharing health screening results with parents/guardians can be accomplished in a number of ways including, electronically or via US mail. School districts are encouraged to consult with their board attorney for guidance on sharing screening results to ensure confidentiality. Screening results should be maintained in the student's health record in accordance with district policy and procedure.

Results can be entered into the health section of the student information system (SIS). Districts that enter health screening results into the SIS are encouraged to work with their SIS vendor to identify how to create reports of screening results. Districts are encouraged to share screening results with the parent/guardian, whether or not the student is referred to their health care provider for follow-up. Districts should have notification, referral, and follow-up protocols and procedures in place. The parent/guardian may have access to the screening results via the SIS.

Community & Internal Partners

Vision Screening Community Partners by CORE Region

Lion's Club Local optometrist Carson Newman College

Lincoln Memorial University-Debusk College of Osteopathic Medicine Pellissippi State Nursing Students Roane State Community College First TN Frontier Mental Health Local health department Lion's Club Tennessee College of Applied Technology Northeast State Community College King University Local volunteer nurses Ballad Healthcare Mid Cumberland Austin Peay State University Columbia State Community College Cumberland University Lipscomb University Tennessee College of Applied Technology South College Union University Vanderbilt University Volunteer State Community College Lion's Club Freed Hardman University Volunteers (e.g., former students, parent/guardian) Well Child, Inc. Northwest Local optometrist Local health department Le Bonheur Tennessee College of Applied Technology Lion's Club Bethel University Camden General Hospital Union University Nursing Department University of Tennessee at Martin Columbia State Community College Lion's Club Volunteer health care professionals Tennessee College of Applied Technology The University of Tennessee Southern Southeast Head Start Lee University Lion's Club Vanderbilt University Cleveland State Community College Tennessee College of Applied Technology Lee University

Bryan College

Chattanooga College

Southwest

Local health department Local ophthalmologist Lion's Club Tennessee College of Applied Technology Southern College of Optometry Freed Hardeman University Well Child, Inc Mobile Eyes Christ Community Health Services Upper Cumberland Tennessee College of Applied Technology

Lion's Club Well Child, Inc. Tennessee Tech University

Vision Screening Internal Partners by CORE Region

East HOSA

Sub/Float Nurses employed with the district

ΡΤΟ/ΡΤΑ

School nurses

School staff (e.g., school counselors, teaching assistants, PE teachers, Food Services Director, system wide health educator)

First TN

ACEs Program Director

Board of Education employees

School Nurses

Mid Cumberland

HOSA

School Nurses

Northwest

CTE

School staff (e.g., social worker, PE teachers)

Health Science students

School Nurses

HOSA

South Central

HOSA

School Nurses

Southeast

School staff (e.g., educational assistants, Exceptional Education Speech and Hearing Assistants)

Health Science students

HOSA

Southwest

School staff (e.g., health technicians)

Local optometrist/ophthalmologist

Health Science students

HOSA **PTO/PTA Volunteers** School Nurses Upper Cumberland Health Science students HOSA Schools Nurses School staff (e.g., Special Education Department Assistants, speech therapist) Hearing Screen Community Partners by CORE Region Carson Newman College Pellissippi State Community College Tennessee College of Applied Technology University of Tennessee Lincoln Memorial University First TN East Tennessee State University Tennessee College of Applied Technology Volunteers (e.g., nurses) Northeast State Community College **King University** Ballad Health Care Mid Cumberland Austin Peay State University Hopkinsville Community College Tennessee College of Applied Technology **Belmont University** Lipscomb University South College Union University Vanderbilt University Volunteer State Community College Nashville State Community College Columbia State Community College Well Child, Inc. Local health department Le Bonheur Northwest Local health department Le Bonheur Local audiologist Murray State University Tennessee College of Applied Technology Volunteers (e.g., nurses) **Bethel College** Union University Columbia State Community College Tennessee College of Applied Technology Volunteers (e.g., health care professionals)

Tennessee College of Applied Technology

University of Tennessee Southern
Southeast
Cleveland State Community College
Lee University Chattanooga College
Local health department
Tennessee College of Applied Technology
Bryan College
Southwest
Thrive Hearing & Learning Solutions
Christian Brothers University
Concorde Career Institute
Local health department
Tennessee College of Applied Technology
Freed Hardeman University
Union University
Well Child, Inc. Christ Community Health Services
Tennessee College of Applied Technology
Middle Tennessee State University
Tennessee Tech University
Well Child, Inc.
Hearing Screening Internal Partners by CORE Region
East
HOSA
HOSA School staff (e.g., Educational audiologist, speech language pathologist, speech language pathologist assistant)
HOSA School staff (e.g., Educational audiologist, speech language pathologist, speech language pathologist assistant) PTO/PTA
HOSA School staff (e.g., Educational audiologist, speech language pathologist, speech language pathologist assistant) PTO/PTA School Nurses
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School staff (e.g., Educational assistants, ESL, speech language pathologist, Exceptional Education Speech and Hearing Assistants)

Southwest

School Nurses School staff (e.g., speech department) Health Science students

HOSA

Upper Cumberland

Health Science students

School staff (e.g., special education department, speech therapist) School Nurses

Local health department Carson Newman College Lincoln Memorial University Maryville College Cleveland State Community College Pellissippi State Community College Roane State Community College South College Tennessee College of Applied Technology Walter State Community College First TN Tennessee College of Applied Technology Carson Newman College Local health department Ballad Health Walters State Community College **Tusculum University** East Tennessee State University Northeast State Community College King University Mid Cumberland Austin Peay State University Hopkinsville Community College Tennessee College of Applied Technology **Belmont University** Cumberland University Lipscomb University South College Union University Vanderbilt University Volunteer State Community College Nashville State Community College Freed Hardman University Northwest **Bethel University** Local health department Le Bonheur

Tennessee College of Applied Technology University of Tennessee at Martin Union University South Central Local health department Columbia State Community College Tennessee College of Applied Technology Cleveland State Community College Lee University Chattanooga College Bryan College Tennessee College of Applied Technology Christian Brothers University Concorde Career Institute Local health department Tennessee College of Applied Technology Freed Hardeman University Union University Well Child, Inc. Christ Community Health Services (School Based Clinics) Upper Cumberland Tennessee College of Applied Technology Cookeville Regional Medical Center Outreach Department Tennessee Tech University Tennessee College of Applied Technology Local health department UT Extension Well Child, Inc. **Body Mass Index Internal Partners by CORE Region**

Contract nurses from the school district's nursing department HOSA School Nurses Local health department School staff (e.g., PE teachers) Health Science students

<u>First</u>TN

School staff (e.g., employees from the Board of Education, Food Services Director, School Counselor, ACEs program director, PE teachers, system-wide health educator)

HOSA

School Nurses

PTO/PTA

Mid Cumberland

HOSA

School Nurses

Health Council Member

School staff (e.g., Lifetime Wellness Teachers, PE teachers

Health Science students

Northwest

CTE

Health Science students

School staff (e.g., float nurse, school social worker, PE teachers)

HOSA

School Nurses

South Centra

HOSA

Health Science students

School Nurses/sub nurses

Southeast

Health Science students

HOSA

School staff (e.g., teacher assistants)

Southwest

School staff (e.g., health technicians, PE teachers,

Le Bonheur

Health Science students

HOSA

PTO/PTA

School Nurses

Upper Cumberland

Tennessee College of Applied Technology School Nurses Health Science students School staff (e.g., PE teachers, special education assistants)

Blood Pressure Community Partners by CORE Region

East

Carson Newman University Local health department Volunteers (e.g., ER nurse, parent/guardian) Lincoln Memorial University Tennessee College of Applied Technology Cleveland State Community College Walter State Community College, Maryville College Pellissippi State Community College Roane State Community College The University of Tennessee South College First TN Carson Newman University Local health department

Volunteers (e.g., local nurses)

Walters State Community College Nursing Program

Tusculum University

East Tennessee State University

Tennessee College of Applied Technology

King University Ballad Health Care
Ballad Health Care
Mid Cumberland
Austin Peay State University
Hopkinsville Community College
Tennessee College of Applied Technology
Ascension St. Thomas, Three Rivers Hospital
Belmont University
Cumberland University
Lipscomb University
South College
Union University
Vanderbilt University
Volunteer State Community College
Nashville State Community college
Columbia State Community College
Freed Hardman University
Northwest
Bethel University
Local health department
Le Bonheur
Newbern Vocational School
Tennessee College of Applied Technology
Union University
The University of Tennessee at Martin
South Central
Columbia State Community College
Tennessee College of Applied Technology
Volunteers (e.g., health care professionals, nurses, fire department, ambulance service)
The University of Tennessee Southern
Southeast
Cleveland State Community College
East Tennessee State University
Lee University
Chattanooga College
Cleveland State Community College
Tennessee College of Applied Technology
Volunteers (e.g., nurses)
Southwest
Christian Brothers University
Concorde Career Institute
Local health department
Tennessee College of Applied Technology
Volunteers (e.g., nurses)
Freed Hardeman University
- Union University
Well Child, Inc.
Well Child, Inc. Christ Community Health Services (School Based Clinics)

Tennessee College of Applied Technology Cookeville Regional Medical Center Outreach Department Cumberland University Tennessee Tech University Volunteers (e.g., EMS) Well Child, Inc.

Blood Pressure Internal Partners by CORE Region
East
Contract nurses from the school district's nursing department
HOSA
School Nurses
School staff
First TN
School staff (e.g., Employees from the Board of Education, Food Services Director, School Counselor, ACEs program director, PE
teachers)
HOSA
School Nurses
Mid Cumberland
HOSA
School Nurses
Health Science students
Northwest
CTE
Health Science students
HOSA
School staff (e.g., school social worker)
School Nurses/float nurses
South Central
HOSA
School Nurses
Southeast
Health Science students
HOSA
School staff (e.g., teacher assistants)
School Nurses
Southwest
School staff (e.g., health Technicians, PE teachers)
Le Bonheur
Health Science students
HOSA
ΡΤΟ/ΡΤΑ
School Nurses
Upper Cumberland
HOSA

School Nurses

Health Science students

Oral Health Screening Community Partners by CORE Region'
Appalachian Life Quality Improvement Children's Health and Maintenance Plan
Local health department
Local dentist
Tennessee Department of Health School-Based Dental Prevention Program
Elgin Children's Foundation
Lincoln Memorial Dental School
Well Child, Inc.
First IN
Volunteers (e.g., dental hygienist)
Local health department
Mid Cumberland
Tennessee Department of Health School-Based Dental Prevention Program
Local health Department
Northwest
Tennessee Department of Health School-Based Dental Prevention Program
South Central
Delta Delital
Local health department
Cauthurant
Local health department
Tennessee Department of Health School-Based Dental Prevention Program
Upper Cumberland
Local health department
Tennessee Department of Health School-Based Dental Prevention Program
well Child, Inc.
Paceline Consussion Severing for Student Athletes Community Partners by CODE Pagion ²
Knoxville Orthopedic Clinic
Elevation Physical and Occupational Therapy
Local health care providers (e.g., MD)
Blount Memorial
First TN
PT Solutions

Holston Medical Group - Family and Sports Medicine

¹ No Oral Health Screening internal partners were identified.

² School Nurses and athletic trainers were identified as baseline concussion screening for student athletes internal partners.

Unicoi County Rehabilitation and Physical Therapy
Local health care providers
Watuaga Orthopedics
Associated Orthopedics
Mid Cumberland
None identified
Northwest
Dynamix Physical Therapist
Sports Plus
Star Physical Therapy
The Sideline Physical Therapy
Local health care providers
South Central
Southern Tennessee Orthopedic And Spine Centers
Local health care providers
Southeast
Southeast Blount Memorial
Southeast Blount Memorial Partridge Medical
Southeast Blount Memorial Partridge Medical Star Regional Hospital
Southeast Blount Memorial Partridge Medical Star Regional Hospital Local health care providers
Southeast Blount Memorial Partridge Medical Star Regional Hospital Local health care providers Southwest
Southeast Blount Memorial Partridge Medical Star Regional Hospital Local health care providers Southwest Hub Health and Wellness, LLC
Southeast Blount Memorial Partridge Medical Star Regional Hospital Local health care providers Southwest Hub Health and Wellness, LLC Sports Plus Rehab
Southeast Blount Memorial Partridge Medical Star Regional Hospital Local health care providers Southwest Hub Health and Wellness, LLC Sports Plus Rehab STARS Physical Therapy
Southeast Blount Memorial Partridge Medical Star Regional Hospital Local health care providers Southwest Hub Health and Wellness, LLC Sports Plus Rehab STARS Physical Therapy Local health care providers
Southeast Blount Memorial Partridge Medical Star Regional Hospital Local health care providers Southwest Hub Health and Wellness, LLC Sports Plus Rehab STARS Physical Therapy Local health care providers Well Child, Inc.
Southeast Blount Memorial Partridge Medical Star Regional Hospital Local health care providers Southwest Hub Health and Wellness, LLC Sports Plus Rehab STARS Physical Therapy Local health care providers Well Child, Inc. Christ Community Health Services (School Based Clinics)
Southeast Blount Memorial Partridge Medical Star Regional Hospital Local health care providers Southwest Hub Health and Wellness, LLC Sports Plus Rehab STARS Physical Therapy Local health care providers Well Child, Inc. Christ Community Health Services (School Based Clinics)
Southeast Blount Memorial Partridge Medical Star Regional Hospital Local health care providers Southwest Hub Health and Wellness, LLC Sports Plus Rehab STARS Physical Therapy Local health care providers Well Child, Inc. Christ Community Health Services (School Based Clinics) Upper Cumberland BenchMark Physical Medicine

Screening Tips and Tricks from School Districts

Planning

- **Plan ahead!** Schedule screening dates well in advance (e.g., one year in advance). Districts have shared this has been helpful for school nurses and volunteers.
- **Enlist school/district buy-in/help** for the master schedule. When you have administration on board with your plan (including appropriate space for screening), you will have a smoother day.
- Find out what community resources are in your area. For example, use local nursing schools to assist with screenings. Community resources can be found in the <u>Community & Internal</u> <u>Partners Section</u>. This list is not exhaustive, and you should continue to periodically conduct environmental scans of community resources available to your district.
- **Ensure there are enough screeners to complete screenings**, whether you are a small or large district, or use district employees and/or community partners to complete screenings. Having a sufficient number of volunteers is helpful with the process and flow of screenings (help with noise, provide quick demonstration, etc.).
- Assign someone to gather and alphabetize screening forms in preparation for screening days.

- Preprint address labels and envelopes for schools to send home permission forms.
- Utilize substitute nurses to cover the school nurse's office. Share the screening schedule with substitute nurses who can volunteer on screening days.
- Have volunteers assigned to designated stations beforehand.
- Consider completing hearing and vision screenings on separate days if the schedule permits.

Process

- **Prefill student demographic data** on screening forms in advance of screening days. Student labels attached to screening forms are a great way to capture demographic information.
- Use student cards/screening forms and have students bring them to all screening stations to ensure that all students complete all screenings. The form is turned in at the end, reviewed for completeness, and can be immediately entered in the Department of Education spreadsheet.
- **Try a new screening schedule** to see if the process can be improved. Some districts do hearing screenings by grade level on different days.
- **Consider having additional staff to gather students by grade.** Younger students may need additional volunteers due to needing more assistance.
- Enter screening results as the student finishes health screening to expedite re-screens, referrals, and notification. Consider having checkout stations to ensure all screenings are completed and documented.
- Eliminate as many distractions as possible during the screening process to reduce the number of rescreens needed.
- Consider using CSH funds to pay substitute nurses with a stipend to lead screening teams.
- Nametags for students ensure the correct student is being screened
- A scoliosis information board can be helpful for students to understand why lifting the shirt is needed.
- Consider having PE teachers help with height and weight measurements.

Documentation

- Input data into your student information system (SIS). The parent/guardian can then access results in the SIS. Some districts enter screening results directly into their SIS as they complete screenings and report this as a time saver.
- Always consider student confidentiality and privacy during the screening process. Consider screening documentation tools that limit information shared between screeners. For example, Lion's Club cannot view other screening results than what they are performing.
- Screening results can be emailed to parents/guardians in accordance with district policy and procedure.
- Google spreadsheets can be used to record screening results during screenings.

Referrals

- **Use internal partners when possible!** School Nurses and speech specialists can aid in rescreens (e.g., nurses for BP rechecks and speech specialists can perform hearing re-screens. Some districts are able to pull nurses to the screening location).
- **Review screening results for failure as soon as possible** (same day or the next day is preferred) and schedule rescreens and send out failed referrals as soon as possible. Share findings to parent/guardian as indicated by district policy and procedure.

- Utilize Family Resource Center (if available) to assist with incomplete referrals and connecting families with health care providers.
- Work in collaboration with school social workers to connect families with resources.
- <u>VSP Eyes of Hope®</u> operates nationally through NASN and other community partners to provide access to eye care for school-age children in need. Gift certificates cover a comprehensive eye exam and, if prescribed, new glasses at a VSP network doctor's office. NASN members can provide students who qualify with a certificate to receive essential vision care at no cost to the school or student. Coverage is printed on each certificate.
- Screening programs should provide referral sources to assist with facilitation of diagnostic testing, evaluation, and treatment when a student has abnormal screening results. A system to track referrals and services provided and monitor the follow-up plan should be in place.

Referral Follow ups

• **Create a deadline** for follow-up of referrals (e.g., after two weeks, call the parent/guardian and check the status of the referral). Does the parent/guardian need assistance with locating a health care provider?

Training Tools

Health Screening Spotlights

Screening	Guest Speaker	Link
Vision	Lindsay Elkins, OD, FAAO, Southern College of Optometry	<u>Click here to view.</u>
Oral Health	Lauren Weiland, MPH, RDH, Assistant State Dental Director, Tennessee Department of Health	<u>Click here to view.</u>
Blood Pressure	Carolina Clark, MD, MPH, FAAP, Associate Medical Director, Pediatrics, Tennessee Department of Health	<u>Click here to view.</u>
Body Mass Index	Carolina Clark, MD, MPH, FAAP, Associate Medical Director, Pediatrics, Tennessee Department of Health	<u>Click here to view.</u>
Concussion	Wendy Ellmo, MS, CCC-SLP, BCNCDS, Brain Injury Specialist, Brain Links	<u>Click here to view.</u>
Scoliosis	Carolina Clark, MD, MPH, FAAP, Associate Medical Director, Pediatrics, Tennessee Department of Health	<u>Click here to view.</u>
Hearing	Brittany Day, AuD, CCC-A, Pediatric Audiologist and Hilary Davis, AuD. CCC- A, Educational Audiologist, Vanderbilt Bill Wilkerson Center	<u>Click here to view.</u>

Blood Pressure Screening Tips

What is Blood Pressure? Blood pressure (BP) refers to the force of blood against the arterial walls when the heart contracts (systole) and when the heart is at rest (diastole). The standard unit for measuring BP is millimeters of mercury (mm Hg). The measurement indicates the height to which the BP will raise a column of mercury. The systolic pressure is the first reading. The diastolic pressure is the second reading. The blood pressure reading is written in a fraction, with the systolic reading on the top of the line and the diastolic reading on the bottom under the line.

Importance of Screening Primary hypertension in children and adolescents occurs primarily in children older than 13 years and has no known cause but is associated with several risk factors, including family history and higher body mass index. Secondary hypertension occurs primarily in younger children and is most commonly caused by genetic disorders, renal disease, endocrine disorders, or cardiovascular

abnormalities. High BP in childhood increases the risk for adult hypertension (HTN) and cardiovascular disease. Even youth with HTN have evidence of accelerated vascular aging.

BP Classification/Interpretation BP is classified by systolic BP (SBP) and diastolic BP (DBP) percentiles for age/sex/height.

TABLE 3 Updated Definitions of BP Categories and Stages	
For Children Aged 1–13 y	For Children Aged ≥13 y
Normal BP: <90th percentile	Normal BP: <120/<80 mm Hg
Elevated BP: ≥90th percentile to <95th percentile or 120/80 mm Hg to <95th percentile (whichever is lower)	Elevated BP: 120/<80 to 129/<80 mm Hg
Stage 1 HTN: ≥95th percentile to <95th percentile + 12 mmHg, or 130/80 to 139/89 mmHg (whichever is lower)	Stage 1 HTN: 130/80 to 139/89 mm Hg
Stage 2 HTN: ≥95th percentile + 12 mm Hg, or ≥140/90 mm Hg (whichever is lower)	Stage 2 HTN: ≥140/90 mm Hg

BP Screening in Schools Algorithm

The following algorithm is based on the modified BP measurement algorithm from the American Academy of Pediatrics' Clinical Practice Guideline for Screening and Management of High Blood Pressure in Children and Adolescents.



Directions for Use of Simplified Table

If the BP values (systolic and diastolic) are less than the values listed in the Simplified table below, the student's BP does not require further evaluation. If the BP values (systolic and/or diastolic) are \geq values listed in the table, the student's BP will need further evaluation, including repeat measurements and utilizing the complete BP Percentile tables based on sex, age, and height.

BP, mmHg				
Age	Boys		Girls	
	Systolic	Diastolic	Systolic	Diastolic
1	98	52	98	54
2	100	55	101	58
3	101	58	102	60
4	102	60	103	62
5	103	63	104	64
6	105	66	105	67
7	106	68	106	68
8	107	69	107	69
9	107	70	108	71
10	108	72	109	72
11	110	74	111	74
	113	75	114	75
12				
≥13	120	80	120	80

Directions for use of BP Percentile Tables

- 1. BP is classified by SBP and DBP percentiles for age, sex, and height.
- 2. Use the higher percentile if the student's height percentile is between two percentiles.
- 3. The 50th percentile row represents a normal blood pressure value or a blood pressure that is normotensive (NT). The ≥ 90th percentile row represents elevated blood pressure. The ≥ 95th percentile row represents stage 1 hypertension (Stage 1 HT). The ≥ 95th percentile plus 12 mmHg row represents stage 2 hypertension (Stage 2 HT).
- 4. Compare the student's SBP and DBP measurements with the level provided in the BP Percentile tables to determine if the measurement falls in a normal or abnormal category. If SBP or DBP >90th percentile, repeat the BP again on the same day.
- 5. If SBP and or DBP fall into an abnormal category, follow the algorithm above.

Blood Pressure Measurement Tips and Tricks

During the Reading

- No talking
- Arm resting at chest height
- Cuff against bare skin
- Back is supported
- Sit with feet flat on floor

Measurement

- Correct cuff size depends on arm size. Practically speaking, correct cuff size equals the largest cuff that will fit on the upper arm with room below for the stethoscope head.
- BP should be measured in the right arm of a relaxed, seated child.
- BP measurement by auscultation is the Gold Standard.

Factor	Increase in BP (mmHg)
Talking	7-10
Listening	5
Crossed Legs	2-8
No back support	6-10
Arm unsupported	Systolic: 1-7
	Diastolic: 5-11
Oscillomoetric device	Systolic: 100
	Diastolic: 5
Distended urinary bladder	10-15
Recent caffeine intake	Systolic: 10:
	Diastolic: 5
Cuff over clothing	Systolic: 5-50
Cuff too small	Systolic: 10
	Diastolic: 2-8

Body Mass Index (BMI) Tips

BMI is a person's weight in kilograms divided by the square of height in meters. It is an inexpensive and easy-to-perform method of screening for weight categories that may lead to health problems.

In children, a high amount of body fat can lead to weight-related diseases and other health issues. Being underweight is also a risk factor for health issues.

For children and teens, BMI is age- and sex-specific and is often referred to as BMI-for-age. Height and weight change as children age, as does their relation to body fatness. Consequently, a child's BMI should be interpreted relative to other children of the same sex and age. These percentiles are calculated from the <u>CDC growth charts</u>.

The Tennessee Department of Education encourages local education agencies to conduct annual BMI screenings for all students in grades K, 2, 4, 6, 8, and one year or class of high school.

BMI screening is used to provide parents/guardians with information about their child's weight status. Data can be used to identify trends over time and monitor school policy outcomes aimed at improving student health.

Tenn. Code Ann. § 49-6-1401

(a) LEAs are authorized to implement a program that identifies public school children who are at risk for obesity. Those school systems that choose to carry out such a program shall:

(1) Have a sufficient number of current school staff or school volunteers trained in taking a body mass index (BMI) to meet the requirements of this part. The department of health shall develop and provide training materials to the LEAs;

(2) Complete a body mass index for age (BMI-for-age), as defined by the centers for disease control and prevention, on every child enrolled for classes in the school system whose parents or guardians have not requested exclusion from the testing; and

(3) Provide each student's parents or guardians with a confidential health report card that represents the result of the child's BMI-for-age screening, along with basic educational information on what the results mean and what the parents or guardians should do with the information.

(b) School systems that carry out the program shall transmit the results of the testing for each student to the department of health.

Centers for Disease Control and Prevention (CDC) Safeguards

The CDC recommends ten safeguards as an essential part of BMI screening. Safeguards help to ensure respect for student confidentiality and privacy, protect students from potential harm, and increase the likelihood that the BMI screening will have a positive impact on promoting a healthy weight.

Introduce the program to parents, guardians, students, and school staff; ensure that
there is an appropriate process in place for obtaining parental consent for
measuring students' height and weight.
Ensure that staff members who measure height and weight have the appropriate
expertise and training to obtain accurate and reliable results and minimize the
potential for stigmatization.
Ensure that the setting for data collection is private.
Use equipment that can accurately and reliably measure height and weight.
Ensure that the BMI number is calculated and interpreted correctly.
Develop efficient data collection procedures.
Do not use the actual BMI-for-age percentiles of the students as a basis for
evaluating student or teacher performance (e.g., in physical education or health
education class).
Evaluate the BMI measurement program by assessing the process, intended
outcomes, and unintended consequences of the program.
Ensure that resources are available for safe and effective follow-up.
Provide all parents with a clear and respectful explanation of the BMI results and a
list of appropriate follow-up actions.

Additional information on each safeguard can be found in the <u>Health Screening Guidelines</u> on the <u>Coordinated School Health webpage</u> and on the <u>CDC Healthy Schools webpage</u>.

Best Practices

Ensuring Accuracy of BMI Screening

If screening results aren't accurate and consistent, then the data cannot be relied upon. Accuracy is important in obtaining height and weight measurements because these measurements will be used to calculate the BMI which, in turn, is utilized to assess healthy weight status and/or provide for surveillance data.

Best Practice	Additional Information	
Calibrate equipment.	All equipment should be maintained and	
	calibrated regularly to ensure accuracy and	
	reliability of results. ²	
Train screeners and review screening	Staff who measure height and weight should	
procedures annually.	have appropriate expertise and training to	
	ensure accurate and reliable results.	
Monitor screeners for correct techniques.	Quality control checks can be implemented	
	through random visits at measurement sites to	
	oversee the performance of the staff	
	measuring students' height and weight. ²	
Communicating BMI Results		

All parents/guardians of students screened shall be provided with BMI results.³ Parents/guardians of students categorized as underweight, overweight, or obese should receive a recommendation from the school district for the student to follow up with a health care provider and share their BMI results with the provider (referral). ⁴

Best Practice	Additional Information		
Use terms such as "healthy weight" instead of	To reduce the risk of stigmatizing students,		
"normal weight."	notification should be consistent to all parents.		
Use terms such as "at risk for being overweight"	To avoid giving the impression that a diagnosis		
or "might be overweight."	has been made, the letters to parents about		
Avoid using the term "obese."	students who need further evaluation—those		
Identify the student's height, weight, and BMI-	classified as underweight, overweight, or		
for-age percentile, and include a table defining	obese—should avoid definitive statements		
BMI for-age percentile categories with images.	about the student's weight category. All		
Communicate that the student's weight was	communication should strongly encourage		
found to be low/healthy/high for his/her height	parents to consult a health care provider to		
and age.	determine if the student's weight presents a		
	health risk. ^{2, 5}		
Sharing BMI Results with Parent/Guardian			
The best practices outlined below were shared by school districts that successfully share BMI results			
with the parent/guardian of all students screened for BMI, regardless of the student's BMI results.			
Best Practice	Additional Information		

³ Tenn. Code Annot. 49-6-1401

⁴ <u>Tennessee Health Screening Guidelines, 2022</u>

⁵ Thompson HR, Linchey JK, Madsen KA. Critical Elements of a School Report to Parents on Body Mass Index. Prev Chronic Dis 2015;12:150165. DOI: <u>http://dx.doi.org/10.5888/pcd12.150165</u>

Auto generate a results letter based on screening result with recommendations for follow up based on the screening result.	BMI results should not be sent as standalone communication. Provide each student with a health report card which includes the results of all screening services provided, along with basic educational information on what the results mean and what the parents or guardians should do with the information. ¹ BMI screening programs are not intended to diagnose weight status. School districts should recommend the student be seen by their health care provider and share the BMI results with the provider. A sample model for the health report card ⁶ to notify parents or guardians of the child's BMI results can be viewed <u>here</u> .
Send screening results through mail addressed to the parent/guardian. Avoid giving screening results directly to students.	Sending results through the mail instead of directly providing to the student ensures student confidentiality and privacy (ex. lost or misplaced forms). Mailing the results increases the likelihood that the parent/guardian will receive the results.
Provide education via telephone to parent/guardian by Coordinated School Health/school nurse regarding importance of BMI screening and follow up, if needed.	Educate parent/guardian on what BMI means and importance of screening and refer to the student's health care provider, as needed.
Schedule office hours.	Schedule available office hours for parent/guardian to speak with Coordinated School Health/school nurse to discuss screening results.
Share results online via the student information system (SIS).	Sharing results via the SIS helps to ensure student confidentiality and privacy but does not guarantee the parent/guardian will review results.

School Based Interventions and Strategies

Schools where aggregate data suggests that high rates of overweight children may be a problem are encouraged to expand existing or implement new school-based nutrition and physical activity programs designed to reduce those rates. The effectiveness of these results could be determined by completing a BMI-for-age on the school's students whose parents or guardians have not requested exclusion from the testing at the end of the school year.⁷

Resource	Additional Information	Link
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⁶ Tenn. Code Annot. 49-6-1402

⁷ Tenn. Code Annot. 49-6-1404

Community Preventive Services	CPSTF released findings on what	<u>Click here to view</u> .
Task Force (CPSTF) - The	works in public health to prevent and	
Community Guide. Evidence-	control obesity. The findings can be	
Based Interventions for Your	used to identify intervention strategies	
Community	that could be used in your school	
	district.	
One Pager: Behavioral	This one-page handout summarizes	<u>Click here to view.</u>
Interventions to Reduce Screen	the CPSTF recommendation and	
Time Among Children	systematic review evidence for	
	behavioral interventions to reduce	
	recreational sedentary screen time	
	among children aged 13 years and	
	younger.	
One Pager: Digital Health	This one-page handout summarizes	<u>Click here to view.</u>
Interventions for Adolescents with	the CPSTF recommendation for digital	
Overweight or Obesity	health interventions to assist	
	adolescents with overweight or	
	obesity with weight management.	
One Pager: Interventions to	This handout summarizes the CPSTF	<u>Click here to view.</u>
Increase Availability of Healthier	findings and systematic review	
Foods and Beverages in Schools	evidence for four interventions aimed	
	at increasing the availability of	
	healthier foods and beverages in	
	schools.	
One Pager: Interventions to	This one-page handout summarizes	<u>Click here to view.</u>
Increase Health Eating and	the CPSTF finding of insufficient	
Physical Activity in Schools	evidence for three school-based	
	intervention approaches that combine	
	dietary interventions with physical	
	activity interventions. This does NOT	
	mean the intervention approaches are	
	ineffective; it means there is not	
	enough evidence available to	
	anderstand which of these	
One Pager: Meal or Fruit and	This and page handout summarizes	Click boro to viou
Vegetable Spack Interventions	the CRSTE recommendation and	Click here to view.
Combined with Physical Activity	systematic review ovidence for school	
Interventions in Schools	based interventions that combine	
	meal or fruit and vegetable spack	
	interventions with physical activity	
	interventions to improve health	
	among elementary school students	
	through grade six	
	through grade six.	

Visit the <u>Coordinated School Health webpage, Reports and Data</u> to view additional information on BMI in Tennessee.

Frequently Asked Questions

Blood Pressure

1. Why were the 2017 Clinical Practice Guidelines for Screening and Management of High Blood Pressure in Children and Adolescents used and adapted for the 2022 Health Screening Guidelines?

The 2017 Clinical Practice Guideline is a comprehensive, evidence-based guideline intended for use by primary and specialty care providers. It is sponsored by the American Academy of Pediatrics and has been endorsed by the American College of Cardiology and the American Heart Association. System hypertension is one of seven markers of poor cardiovascular health, and high blood pressure in children has been shown to track into adulthood. High blood pressure in adulthood is a leading cause of morbidity and mortality. For these reasons, appropriate screening, diagnostic, management, and treatment strategies should be used in children. The prevalence of childhood high blood pressure is higher among children who are overweight or obese, and children and adolescents with specific chronic diseases (e.g., chronic kidney disease) have an increased prevalence of elevated blood pressure.

2. If a high blood pressure measurement is obtained by an oscillometric device, should auscultation also be done?

Confirmation of high blood pressure by auscultation should also be done for accuracy.

3. What are some possible causes of isolated elevated blood pressure?

There are many potential etiologies for isolated elevated blood pressure, including factors such as anxiety, recent caffeine intake, and common pharmacologic agents.

4. For students that are a larger stature, and their blood pressure is greater than the values in the blood pressure screening tables, should these students still be referred?

If a student's blood pressure is outside the range listed in the simplified and/or blood pressure percentile tables, then the blood pressure should be retaken and parents notified in accordance with the blood pressure screening guidance outlined in this document and in the Health Screening Guidelines available on the Coordinated School Health website.

5. After referring a student to their health care provider for out-of-range blood pressure identified during a screening, the student's health care provider states that the blood pressure is in normal range. What should we do?

There are various reasons a student's blood pressure may be elevated during a school screening that does not lead to a health condition/medical diagnosis or result in a diagnosis and/or intervention by the health care provider. Screenings are a tool that can identify potential health problems. It is important to note that health care providers who see children and adolescents should follow the American Academy of Pediatrics' elevated blood pressure guidance. This would include pediatricians, family medicine providers, and other health care providers who see children and adolescents. School nurses can provide education by explaining how blood pressure is measured differently, the importance of monitoring elevated blood pressure early, and what chronic diseases elevated blood pressure can lead to.

Concussion

6. Is the concussion baseline for student-athletes required?

The TDOE encourages LEAs to provide baseline concussion screenings for all students who participate in sports.

Height/Weight (BMI)

7. Should shoes and jackets be taken off during height and weight screenings?

This is best practice to ensure accurate height and weight are obtained and recorded, and districts are encouraged to have students remove shoes, heavy jackets, etc., during height/weight screenings.

Scoliosis

8. Can a student leave their shirt on during scoliosis screening?

Having the shirt removed is the best way to see the entire curvature of the spine. Students and parents/guardians can be notified in advance to prepare for the screening and ask questions. Bras or swimsuit tops can be worn during the screening.

9. Why are girls recommended to be screened earlier than boys and twice?

As a result of rapid growth during puberty, screening girls earlier and twice catch changes in the curvature of the spine. The goal of screening earlier is so that, if indicated, treatment can begin earlier and hopefully avoid surgery.

10. Is the forward bend test the gold standard for mass scoliosis screenings?

Scoliosis screenings can include the visual inspection and the forward bend test or visual inspection and the forward bend test + the scoliometer. Districts are encouraged to work with their scoliosis screening partner to determine which tests are appropriate and align with evidence-based practice.

Vision

11. Why is it recommended to retest with the vision charts if a mechanical vision tester is used for the first vision screening?

Retest using a different format is encouraged to ensure that abnormal screening result is accurate and reduce the number of false-positive referrals.

12. What grades should the functional/muscle balance tests be completed on?

Since the muscle balance can change as a student grows, if a district is going to conduct the muscle balance, it should be done for all screening grades.

- **13. Can the Sloan chart also be used for near acuity screening?** Sloan charts absolutely can be used at near vision screening as well.
- 14. A student has a 10/16 result in one eye using the Sloan Chart. This would be a failed reading, correct? How does the equivalency work for Sloan vs Snellen?

Any chart with a notation for 10 feet, which is denoted by the 10 being the first number in the acuity setup, would need to be doubled for a 20 feet notation. So for 10/16 = 20/32. If this is the line that

the screening institution has that is closest to 20/30, then I would allow this as ~ 20/30 and include it as a pass as long as other passing factors are met. Sloan is really just an optotype/font that can be used. There are many different chart formulations using those letter types. Districts are encouraged to consider their testing distance when selecting which chart to use. Depending on how a chart is calibrated and the testing distance actually used, there may be some math involved to calculate pass/fail.

15. What if my district is using a Snellen chart that is calibrated for testing at 20 feet, but we test at 10 feet? How do we calculate acuity?

Double the acuity you achieved: 20/20 would then be 20/40. Most charts that have a 10-foot acuity notation will also have a 20-foot conversion on the other side of the chart. Districts are encouraged to consider this when selecting screening charts and provide appropriate notes/training to screening volunteers when orienting them to provide the screenings.

16. Is it appropriate for us to make our own color vision screening booklet by printing off the Ishihara plates ourselves and laminating them?

This is not appropriate.

Hearing

- **17.** Should a student with tubes in their ears and hearing issues be referred to their health care **provider?** Yes, tubes are the treatment for middle ear dysfunction, and if a tube is working properly like it should be, the student should be hearing well.
- 18. Some audiometers were ordered for our district. They will test the decibels but do not have the frequencies. Can this still be used for hearing screenings?

If you can change the volume (decibels), then the audiometer has to be testing at least one frequency (e.g., you can change the volume for that one pitch). If the audiometer truly can't change frequencies, this would not be appropriate for school screenings.

19. Should screenings be conducted in a quiet environment?

Yes, we need to have no air conditioning units, away from the gym, doors closed, as quiet as you can make it. Additional time, staffing, and repeat screenings can result if screenings are not conducted in a noise-free environment.

20. Should OAE screenings be done in a quiet place?

Yes, OAE is testing the functioning of the cochlea. It's not telling how the information travels from the organ to the brain or how the brain is processes that sound, so there are other types of hearing loss that a student can have where the organ is functioning like it is supposed to but the information is getting jumbled or lost. OAE is a great tool for students that can't be screened the traditional way, but OAE is not meant to be used independently as a diagnostic or screening tool.

21. Is it ok to test at 15 dB or 25 dB, instead of the recommended 20 dB?

25dB shouldn't be used since it's louder than the guidelines, but 15dB definitely could cause overreferrals due to the ambient noise levels in the screening environment, and we don't want students referred when it isn't necessary. When a child fails a hearing screening and is referred to an audiologist, they should receive diagnostic testing, which would test down to the lowest level they can hear, be it 15dB or 0dB. The difference, however, is that this testing is being conducted in a sound-treated booth, so the ambient noise variable is eliminated.

PACER

22. Do we have to know a student's height and weight for PACER?

Teachers can identify if a student's aerobic capacity is in a healthy fitness zone without height and weight. A chart from Cooper Institute shows the minimum number of laps to achieve a healthy fitness zone in the 20-meter PACER. If teachers need to use the 15-meter distance, they should reference this conversion chart first.

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