Tennessee Childhood Lead Poisoning Prevention Program Lead Screening Guidelines

The Tennessee Childhood Lead Poisoning Prevention Program's (TN CLPPP) screening and follow-up guidelines align with those of the Centers for Disease Control and Prevention (CDC).

Who Should Be Screened?

- Children, aged 12 and 24 months*
- Children, aged 36-72 months without a documented blood lead level*
- Children whose parent/guardian requests a blood lead level
- Children whose parent/guardian responds "Yes" or "Don't know" to any question on the Risk Assessment Questionnaire or whose lead risk status has changed
 - *Required for all TennCare recipients.

Screening Guidelines

- Blood lead screening is performed as a capillary finger stick
- Any screening revealing a blood lead level at or exceeding 5 μg/dL requires a venous confirmatory blood test.
 a venous confirmatory blood test.

Venous Confirmatory Schedule for a Capillary Blood Lead Level of ≥5 μg/dL

Screening Test Result (µg/dL)	Time to Confirmatory Test	
5 – 9	0 – 3 months*	
10 – 44	1 week – 1 month#	
45 – 59	48 hours	
60 – 69	24 hours	
≥ 70	Urgently, as an emergency test	

^{*}Confirmatory test can be conducted on the same day, as warranted by the physician.

#The higher the blood lead level of the screening, the more urgent the need for confirmatory testing.

Follow-Up Testing Schedule for Confirmatory Venous Blood Lead Levels of ≥5 µg/dL ^a

Venous Blood Lead Level (μg/dL)	Early Follow-Up (first 2-4 tests after identification)	Late Follow-Up (after BLL begins to decline)	
5 – 9	3 months ^b	6 – 9 months	
10 – 19	1 – 3 months ^b	3 – 6 months	
20 – 24	1 – 3 months ^b	1 – 3 months	
25 – 44	2 weeks – 1 month	1 month	
≥ 45	As soon as possible	As soon as possible	

a – Seasonal variations of BLLs exist and may be more apparent in colder climates. Greater exposure in the summer months may necessitate more frequent follow-ups.

b – Some case managers or PCPs may choose to repeat blood tests on all new patients within a month to ensure that their BLL is not rising more quickly than anticipated.

Recommended Actions for Children Based on Blood Lead Level Blood Lead Level (μg/dL)

Less than 5	5 – 44	45 - 69	≥70
Lead education*	Lead education*	Lead education*	Hospitalize and
Dietary	Dietary	Dietary	commence
Environmental	Environmental	Environmental	chelation
Liiviioiiiiiciitai	2vii oriinteritear	211VII OTIIITETTA	therapy (following
Lead risk assessment	Follow-up blood lead	Follow-up blood lead	confirmatory venous
and environmental	monitoring (see guidelines)	monitoring (see	blood lead test) in
sampling, if	mornios mg (see garaennes)	guidelines)	conjunction with
appropriate	Complete history and	garaemies	consultation from a
арргорпасс	physical exam	Complete history and	medical toxicologist
	priyotear exam	physical exam	or a pediatric
	Lab work:	priysical exam	environmental
	Iron status	Lab work:	health specialty unit.
	Consider hemoglobin or	Hemoglobin or	Treater specialty arms.
	hematocrit	hematocrit	Proceed according
		Iron status	to actions for 45-69
	Environmental investigation	Free erythrocyte	μg/dL.
	(venous BLLs of ≥ 20 or	protoporphyrin (FEP)	F-0/
	persistently elevated levels)		
	, ,	Environmental	
	Lead hazard reduction	investigation	
	Neurodevelopmental monitoring	Lead hazard reduction	
	_	Neurodevelopmental	
	Abdominal x-ray (if	monitoring	
	particulate lead ingestion	_	
	is suspected) with bowel	Abdominal x-ray (if	
	decontamination if	particulate lead ingestion	
	indicated	is suspected) with bowel	
		decontamination if	
		indicated	
		Oral chelation therapy;	
		(Consider hospitalization	
		if lead-safe environment	
		cannot be assured.)	

^{*}http://www.cdc.gov/nceh/lead/tips.htm

These actions are <u>not recommended</u> at any blood lead level:

- Searching for gingival lead lines
- Testing of neurophysiologic function
- Evaluation of renal function (except during chelation with EDTA)
- Testing of hair, teeth, or fingernails for lead
- Radiographic imaging of long bones
- X-ray fluorescence of long bones