

# Tennessee Childhood Lead Poisoning Prevention Program

## NEW Recommended Schedule for a Confirmatory Venous Sample

Screening test result ( $\mu\text{g}/\text{dL}$ )	Perform a confirmation test within:
10-19	3 months
20-44	1 week - 1 month*
45-59	48 hours
60-69	24 hours
> 70	<i>Immediately as an emergency lab test</i>

\*The higher the BLL on the screening test, the more urgent the need for confirmatory testing.

### Screening Guidelines

1. Blood lead test may be done as a finger stick
2. If the blood lead level comes back 10  $\mu\text{g}/\text{dL}$  or greater, the level must be confirmed by a venous blood lead level

## Who Should Be Screened?

1. Children at 12 and 24 months old\*
2. Children 36-72 months old without a documented blood lead level\*
3. Children whose parent/guardian requests a blood lead level
4. Children whose parent/guardian answers "yes" or "don't know" to any questions on risk assessment questionnaire used at well-child checks of 6 and 72 months or when child's risk status changes



\*CMS requirements for TennCare recipients

## Recommended Schedule for Follow-Up Blood Lead Testing (a)

Venous blood lead level ( $\mu\text{g}/\text{dL}$ )	Early follow-up (first 2-4 tests after identification)	Late follow-up (after BLL begins to decline)
10-14	3 months (b)	6-9 months
15-19	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	Chelation with subsequent follow-up

(a) Seasonal variation of BLLs exists and may be more apparent in colder climate areas. Greater exposure in the summer months may necessitate more frequent follow-ups.  
 (b) Some case managers or PCPs may choose to repeat blood lead tests on all new patients within a month to ensure that their BLL is not rising more quickly than anticipated.

### Additional Contact Information

Tennessee Department of Health: <http://www2.state.tn.us/health/lead> OR call: (615) 741-0355  
 Tennessee Department of Environment and Conservation: <http://www.state.tn.us/environment>  
 OR call: (615) 532-LEAD or the In-state-only hotline at 1-888-771-LEAD (5323)  
 Lead-based Paint Inspectors, Risk Assessors: <http://www.state.tn.us/environment/swm/leadpaint/listprof.htm>



# Summary of Recommendations for Children with Confirmed (Venous) Elevated Blood Lead Levels

## Blood Lead Level ( $\mu\text{g}/\text{dL}$ )

10-14	15-19	20-44	45-69	$\geq 70$
<ul style="list-style-type: none"> <li>• <b>Lead education</b> <ul style="list-style-type: none"> <li>- Dietary</li> <li>- Environmental</li> </ul> </li> <li>• <b>Follow-up blood lead monitoring</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Lead education</b> <ul style="list-style-type: none"> <li>- Dietary</li> <li>- Environmental</li> </ul> </li> <li>• <b>Follow-up blood lead monitoring</b></li> <li>• <b>Proceed according to actions for 20-44 <math>\mu\text{g}/\text{dL}</math> if:</b> <ul style="list-style-type: none"> <li>- A follow-up BLL is in this range at least 3 months after initial venous test</li> </ul> </li> <li>or</li> <li>- BLLs increase</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Lead education</b> <ul style="list-style-type: none"> <li>- Dietary</li> <li>- Environmental</li> </ul> </li> <li>• <b>Follow-up blood lead monitoring</b></li> <li>• <b>Complete history and physical exam</b></li> <li>• <b>Lab work:</b> <ul style="list-style-type: none"> <li>- Hemoglobin or hematocrit</li> <li>- Iron status</li> </ul> </li> <li>• <b>Environmental investigation</b></li> <li>• <b>Lead hazard reduction</b></li> <li>• <b>Neurodevelopmental monitoring</b></li> <li>• <b>Abdominal X-ray (if particulate lead ingestion is suspected) with bowel decontamination if indicated</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Lead education</b> <ul style="list-style-type: none"> <li>- Dietary</li> <li>- Environmental</li> </ul> </li> <li>• <b>Follow-up blood lead monitoring</b></li> <li>• <b>Complete history and physical exam</b></li> <li>• <b>Complete neurological exam</b></li> <li>• <b>Lab work:</b> <ul style="list-style-type: none"> <li>- Hemoglobin or hematocrit</li> <li>- Iron status</li> <li>- FEP or ZPP</li> </ul> </li> <li>• <b>Environmental investigation</b></li> <li>• <b>Lead hazard reduction</b></li> <li>• <b>Neurodevelopmental monitoring</b></li> <li>• <b>Abdominal X-ray with bowel decontamination if indicated</b></li> <li>• <b>Chelation therapy</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Hospitalize and commence chelation therapy</b></li> <li>• <b>Proceed according to actions for 45-69 <math>\mu\text{g}/\text{dL}</math></b></li> </ul>

### The following actions are **NOT** recommended at any blood lead level:

- Searching for gingival lead lines
- Testing of neurophysiological 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