ABBREVIATED PROCEDURE FOR THE COLLECTION OF CAPILLARY BLOOD LEAD SPECIMENS

This is an abbreviated procedure for the collection of capillary blood lead specimens. Specimen collectors should be thoroughly familiar with the comprehensive procedure before collecting patient specimens. Copies of the comprehensive procedure are available from the WI State Laboratory of Hygiene at (608) 224-6252. The staff can also answer questions regarding collection procedure, interpretation of results, or other lead-related questions. To order kits, telephone the WSLH at (800) 442-4618, and request kit #6 for capillary blood lead collection or enter the form at the following link: http://www.slh.wisc.edu/clinical/metals/test-kit/test-kit-order-form/. Each kit contains sufficient supplies to collect 100 specimens.

A. COLLECTION PROCEDURE

Caution must be taken throughout the procedure to prevent environmental contamination of the specimens. This contamination most often occurs due to insufficient cleansing of the child’s hand or contact between the Multivette capillary tip and a contaminated surface.

NOTE: Powder-free gloves should be worn during collection procedures. Follow appropriate bloodborne pathogen guidelines.

1. Become familiar with the comprehensive collection instructions mentioned above.

2. Open and arrange equipment and check to see that all collection materials are within easy reach.

3. Using the white tape provided, label the Multivette with the child’s name and a second identifier (i.e. date of birth, age). Avoid allowing the capillary tip to contact environmental surfaces.

4. Wash, rinse, and dry the child’s hand. Following washing, the finger to be punctured must not be allowed to touch any surface, including the other fingers.

5. Scrub the finger (usually the middle or ring finger) with an alcohol pad.

6. Blot the sampling area once with a dry gauze pad.

7. Puncture the finger, nail side up, using a sterile lancet. The puncture should be slightly to the side of the pad of the finger.

8. Absorb the first drop of blood with the corner of a gauze pad.

9. Touch the capillary tip of the Multivette to the second blood drop, minimizing direct contact with the skin surface. The Multivette should be horizontal or angled downward slightly for proper blood flow. Blood will be drawn into the tip.

10. If necessary, gently massage the base of the finger to improve blood flow. Do not 'milk' the finger as this may dilute the blood with tissue fluids.

11. Fill the capillary tip until blood is flush with the purple cap of the Multivette. This will provide approximately 100 µL of blood. Unscrew the capillary assembly and remove. Blood will be drawn from the tip into the
Multivette tube. **Note:** The presence of air gaps in the capillary tip will prevent successive blood drops from being drawn into the tip. Contact WSLH staff for additional information.

12. Screw the cap onto the Multivette, and shake vigorously to mix. You should be able to hear the mixing doughnut while shaking.

**B. PACKAGING AND SHIPPING INSTRUCTIONS**

Disclaimer: The following information is based on WSLH interpretation of current shipping regulations. Customers should consult their own legal advisors for interpretation of all laws and regulations that may apply to their organizations. September 2017

1. The shipping supplies provided by WSLH meet current regulations for shipment of blood specimens not known or suspected of being infectious. Place the labeled tube and absorbent material into the provided ziplock or glue-sealed bag. For convenience, several labeled Multivettes and absorbents may be placed in one bag for mailing. Properly seal the bag.

2. Place the specimens and completed test request forms in the shipping container. Affix address label to the shipping container. Also affix an "exempt human specimen" label to the shipment container. You should NOT affix a biohazard or other similar identifying label. The application of other labels may actually slow delivery.

*Note: If the specimen is known or suspected to contain an infectious agent, different packaging may be required. Contact the laboratory or Postal Service for more information.*

3. Mail specimens promptly to SLH. The specimens are stable at room temperature, but please refrigerate the specimens if possible when shipment will be delayed.

**C. INFORMATION ON CASE MANAGEMENT**

For information regarding the appropriate medical and environmental follow-up for children with elevated blood lead levels, contact Margie Coons, (608) 267-0473, at the WI Division of Health.

**D. BILLING INFORMATION**

1. Medicaid HMO or other insurance information should always be provided for eligible children. The HMO/Insurance company name, subscriber ID number, ICD-10 diagnosis code, and national provider index (NPI) number for the authorizing individual (not the agency NPI) are all required for proper billing.

2. Fee exempt billing can be used only for WI children < 6 years of age who have no Medical Assistance or other insurance. This is restricted to local public health agencies and other public health providers.

Revised By: Nicholas Levitt
Chemist, Chemical Emergency Response

Reviewed by: Karyn Blake
Chemist, Chemical Emergency Response

Approved by: Meshel Lange
Chemical Emergency Response Program Supervisor

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Date: 07/22/2021