

Decision Matrix on reviewing blood lead labs and case creation in MIDIS. PLEASE REVIEW ALL LABS WITHIN SEVEN DAYS AFTER IT IS RECEIVED BY PUBLIC HEALTH.

May. 29, 2024 (version 3)

Age under 16 years						
INITIAL TEST	New Case	Case Status	Confirmatory test	Case Status	Follow-up Tests	Anticipatory Guidance
Capillary or Venous, <3.5 µg/dL	NO ^{1,2}	N/A	N/A	N/A	N/A	1. Adhere to routine screening and testing at regular well child visits with PCP. ⁴
Capillary ≥ 3.5 µg/dL	YES ^{2,3}	SUSPECT	Capillary or Venous, <3.5 µg/dL	SUSPECT	No follow-up testing needed; Associate the test with the current investigation. ²	2. Follow anticipatory guidance #1 3. Provide education on Lead Poisoning Prevention. ⁶ 4. CASE CLOSED, 1-3 months depending on follow-up.
			Capillary, ≥3.5 µg/dL	If >12 wks. after initial, SUSPECT	Associate the test with the current investigation. ² Confirmatory testing still recommended. ⁵ If the confirmatory test is <3.5 µg/dL, proceed to <u>next column</u> ; if ≥3.5 µg/dL, proceed to <u>next row</u> .	
			Venous, ≥3.5 µg/dL	CONFIRMED	Ensure that follow-up testing has been scheduled by PCP ⁵ ; Associate all follow-up labs with the current investigation. ²	5. Follow anticipatory guidance #1-#3. 6. Complete the Lead Exposure Questionnaire. ⁶ 7. Link the patient to services ^{7,8,9} (home lead inspection, home visiting, developmental, behavioral, nutritional, legal, etc.). 8. CASE CLOSED, 1-3 months depending on follow-up and the role of Public Health
			Capillary, ≥3.5 µg/dL	If ≤12 wks. after initial, CONFIRMED		
Venous ≥3.5 µg/dL	YES ^{2,3}	CONFIRMED	N/A	N/A	Ensure that follow-up testing has been scheduled by PCP; Associate all follow-up labs with the current investigation. ²	9. Follow anticipatory guidance #5-#7. 10. CASE CLOSED, 1-3 months depending on follow-up and the role of Public Health.

1. Mark the lab report as “reviewed” when there is NO case investigation occurring in the same year OR immediately previous calendar year. Example 1: The test occurred Nov. 24, 2022, and there are no records of any previous investigations. Example 2: The new test occurred Nov. 24, 2022, and the previous investigation was 2020.
2. Associate a lab report with a case investigation occurring in the same year OR immediately previous calendar year. Example 1: The test occurred Nov. 24, 2022, and the most recent investigation was in 2021 or 2022. Example 2: An initial capillary was investigated Nov. 24, 2022, and a confirmatory test occurred January 5, 2023. Example 3: A follow-up test occurred Dec. 2, 2022, and the investigation was started in 2021.
3. Open a new case investigation when there is NO case investigation occurring in the same year OR immediately previous calendar year. Example 1: The test occurred Nov. 24, 2022, and there are no records of any previous investigations. Example 2: The test occurred Nov. 24, 2022, and the previous investigation was in 2020.
4. Screening and Testing – American Academy of Pediatrics Bright Futures Periodicity https://downloads.aap.org/AAP/PDF/periodicity_schedule.pdf and Montana Medicaid “LEAD SCREENING” in the General Information Manual for Providers on Early Periodic Screening and Diagnostic Testing (EPSDT Well-Child) <https://medicaidprovider.mt.gov/manuals/generalinformationforprovidersmanual>
5. Confirmatory and Follow-up Testing – The Centers for Disease Control and Prevention (CDC) Recommended Actions Based on Blood Lead Level, <https://www.cdc.gov/lead-prevention/hcp/clinical-guidance/index.html>
6. CD Epi Resources on Lead Exposure – Investigation Guidelines and Questionnaire, <https://dphhs.mt.gov/publichealth/cdepi/CDCPResources/CDEpi>
7. US Environmental Protection Agency (EPA) – Lead Resources on Lead-Safe Home and How to Protect Your Family, <https://www.epa.gov/lead>; Nutrition (EPA), https://www.epa.gov/sites/default/files/2020-01/documents/fight_lead_poisoning_with_a_healthy_diet_2019.pdf.
8. The Centers for Disease Control and Prevention (CDC) – Developmental Milestones for children up to 5 years, <https://www.cdc.gov/ncbddd/actearly/milestones/index.html>
9. Montana Department of Justice – Tenants and Landlords: Know the Rule and links to services for legal advice, <https://dojmt.gov/consumer/tenants-and-landlords>.

See additional resources on the following page ^{9,10}

Decision Matrix on reviewing blood lead labs and case creation in MIDIS. PLEASE REVIEW ALL LABS WITHIN SEVEN DAYS AFTER IT IS RECEIVED BY PUBLIC HEALTH.

May. 29, 2024 (version 3)

Age 16 years and over				
Type of Test	New Case	Case Status	Follow-up tests	Anticipatory Guidance
Venous, <3.5 µg/dL	NO ^{1,2}	N/A	N/A	N/A
Venous, ≥3.5 µg/dL	YES ³	CONFIRMED	Ensure that follow-up testing (i.e., re-testing or worksite medical monitoring) has been scheduled by the ordering provider or the patient’s primary care provider ^{5,6,7} Associate all follow-up labs with the current investigation. ²	<ol style="list-style-type: none"> 1. Provide education on Lead Poisoning Prevention (i.e., jobs and hobbies; home renovation; Personal Protective Equipment, PPE; diet/nutrition; hygiene, vulnerable populations including people who are pregnant or may become pregnant, children, family members exposed through Take-Home Lead).^{4,5,6,7} 2. Complete the Lead Exposure Questionnaire⁴ 3. Link the patient to services (e.g., home lead inspection, legal/housing).^{8, 9,10} 4. CASE CLOSED, typically 1 week to 1 month depending on follow-up.
	NO ³	N/A		

1. Mark the lab report as “reviewed” when there is NO case investigation occurring in the same year OR immediately previous calendar year. Example 1: The test occurred Nov. 24, 2022, and there are no records of any previous investigations. Example 2: The new test occurred Nov. 24, 2022, and the previous investigation was 2020.
2. Associate a lab report with a case investigation occurring in the same year OR immediately previous calendar year. Example 1: The test occurred Nov. 24, 2022, and the most recent investigation was in 2021 or 2022. Example 2: A follow-up test occurred Dec. 2, 2022, and the investigation was started in 2021.
3. Open a new case investigation when there is NO case investigation occurring in the same year OR immediately previous calendar year. Example 1: The test occurred Nov. 24, 2022, and there are no records of any previous investigations. Example 2: The test occurred Nov. 24, 2022, and the previous investigation was in 2020.
4. Montana Dept. of Health and Human Services, DPHHS, CD Epi Resources on Lead Exposure – Investigation Guidelines and Questionnaire, <https://dphhs.mt.gov/publichealth/cdepi/CDCPBResources/CDEpi>
5. The Centers for Disease Control and Prevention (CDC) – Guidelines for the Identification and Management of Lead Exposure in Pregnant and Lactating Women, <https://stacks.cdc.gov/view/cdc/147837>.
6. The National Institute for Occupational Safety and Health (NIOSH) - Adult Blood Lead Epidemiology and Surveillance (ABLES): Understanding Blood Lead Levels, <https://www.cdc.gov/niosh/lead/bll-reference/index.html>.
7. Council of State and Territorial Epidemiologist (CSTE) – Management Guidelines for Blood Lead Levels in Adults, <https://cdn.ymaws.com/www.cste.org/resource/resmgr/OccupationalHealth/ManagementGuidelinesforAdult.pdf>
8. Montana Department of Justice – Tenants and Landlords: Know the Rule and links to services for legal advice, <https://dojmt.gov/consumer/tenants-and-landlords>.
9. Montana Dept. of Health and Human Services, DPHHS, Communicable Disease Epidemiology website page on Lead Poisoning Prevention, Information for Parents and Families, <https://dphhs.mt.gov/publichealth/cdepi/diseases/Lead>
10. US Environmental Protection Agency (EPA) – Lead Resources on Lead-Safe Home, Locate certified Inspector/Risk Assessor, How to Protect Your Family, <https://www.epa.gov/lead>