



LEAD EXPOSURE/POISONING CASE INVESTIGATION FORM

1. Patient Information

1.1	Patient name and surname:				
1.2	Patient Residential address:				
1.3	Age				
1.4	Occupation if employed				
1.5	Work address				
1.6	Name of School/ Creche if learner				
1.7	Address of School/ Creche if learner				
1.8	Gender		Male		Female

Source of exposure/poisoning identification

2.1	Painted Walls					
2.1.1	Are the walls painted?	☐	Yes	☐	No	
2.1.2	If yes, what is the colour of the paint?					
2.1.3	Are the leaded paint hazards (refer to annexure D for guidance) identified?	☐	Yes	☐	No	☐ N/A
2.1.4	If yes, describe the leaded paint hazards identified.					
2.1.5	If the answer to 2.1.3 is yes			If the answer to 2.1.3 is no		
	Take paint peel/chips samples to accredited laboratory	or	Test all different colours of painted wall surfaces, doors, window seal and frames with a calibrated XRF analyzing device or another recognized device	Move to 2.2 Loose ground soil		
	Compare sample results with standard references (Refer Annexure D)					
	If the standard results are within acceptable levels, move to 2.2 and the rest of the questionnaire. If the test results are within unacceptable levels, take intervention action (For guidance, refer to Step 4 of investigation steps and Annexure E of the guideline)					
2.1.6	What is the level of lead content in sampled paint chips or on painted wall surface in ppm or per cent or mg/kg or mg/cm ²					

2.2	Loose ground soil	
	Is there loose ground soil on the premises that is contaminated by paint chips or other lead containing material?	
	Yes	No
	Compare sample results with standard references (Annexure D) If the standard results are within acceptable levels, move to 2.3 and continue to the rest of the questionnaires. If the test results are within unacceptable levels, take intervention action. (For guidance, refer to (step 4 of investigation steps and Annexure E of the guideline)	Move to 2.3 and continue to the rest of the questionnaires

2.3	Water/bottled water						
2.3.1	Is drinking water the suspected source?	☐	Yes	☐	No	☐	N/A
2.3.2	Is bottled water the suspected source?	☐	Yes	☐	No	☐	N/A
	Yes	No					
	Visit the water supply authority and check the water quality results of the supplied drinking water in relation to acceptable lead levels in water as prescribed in SANS 241. Sample drinking water, irrespective of the source of drinking water supply and compare results with SANS. OR sample the bottled water and compare sample results with Regulations. Refer to Annexure D for reference on standards.	Move to 2.4 and continue to the rest of the questionnaire					
	Taking interventions (For guidance, refer to step 4 of investigation steps and Annexure E of the guideline)						
2.3.3	Does the water/bottled water comply?						
	Yes	No					
	Move to 2.5 and continue to the rest of the questionnaire	Take intervention action (For guidance, refer to step 4 of investigation steps and Annexure E of the guideline)					

2.4	Child's parent workplace/ adult patient workplace				
	Type of occupational setting that the adult patient works in:				
	Plumbing	☐	Yes	☐	No
	Construction/ renovation industry	☐	Yes	☐	No
	Paint manufacturing industry	☐	Yes	☐	No
	Jewellery manufacturing industry	☐	Yes	☐	No
	Melting fishing weights	☐	Yes	☐	No
	Smelting or recycling lead acid batteries	☐	Yes	☐	No
	Cabling industry	☐	Yes	☐	No
	Radio and TV sets manufacturing	☐	Yes	☐	No
	Shooting range	☐	Yes	☐	No
	Informal mining	☐	Yes	☐	No
2.4.1	Is lead a chemical used in the manufacturing process?	☐	Yes	☐	No
2.4.2	Is the inhalation of released lead fumes in the workplace setting possible, due to ineffective or lack of personal protective equipment (respiratory/face masks)?	☐	☐	☐	☐
2.4.3	Is there possible contamination of lunch/snack food to be consumed by the adult patient due to poor personal and environmental hygiene?	☐	☐	☐	☐
2.4.4	If the answer is yes to the questions above, consider chemical risk assessment (Refer to Annexure C and if interventions are required, for guidance refer to step 4 of the investigation steps and Annexure E of the guideline)				

2.5	Occupation setting protective clothing						
2.5.1	Are occupational protective clothing washed at the workplace or home?		Workplace		Home		
2.5.2	If taken home, is occupation protective clothing taken home, washed separately?		Yes		No		
					If occupational protective clothing taken home is not washed separately advise on intervention measures		
2.5.3	Is personal protective clothing provided? (Only ask if the workplace is the suspected location where poisoning took place in case of an adult patient)		Yes		No		N/A

2.6	Leisure/habitual activities					
2.6.1	Are parents of the child patient or the adult patient involved in any of the following leisure/habitual activities?					
	Melting fishing weights		Yes		No	If parents of the child patient or the adult patient involved in any of the leisure /habitual activities advise on intervention measures (refer to (step 4 of investigation steps and Annexure E of the guideline).
	Burning gun magazines for home heating		Yes		No	
	Burning battery casings for home heating		Yes		No	

2.7	Cosmetic or aruyvedic medicines				
2.7.1	Is a cosmetic or aruyvedic medicine a suspected source of poisoning?				
	Yes		No		
	Take sample to the laboratory for lead content analysis		Move to 2.8 and continue to the rest of the questionnaires		
2.7.2	Are the results indicating levels of level in cosmetic or aruyvedic medication?			Yes	No
2.7.3	If the answer to question 2.7.2 is yes, what is the level?				

	Refer to Annexure C1 for guide on acceptable limit. Follow up on investigation on where was it purchased from for further investigation, if standard is exceeded. If interventions are required, for guidance, refer to section 5, section 7 (step 4) and Annexure D of the guideline).
2.7.4	If the answer to question 2.7.2 is No, move to 2.8 and continue to the rest of the questionnaires.

2.8	Food consumed	
2.8.1	Is food or cooking utensils/pots a suspected source of poisoning?	
	Yes	No
	Take sample to the laboratory for lead content analysis	Conclude the investigation and complete section 3, 4 and 5
	Are there levels of lead content in the results?	
2.8.2	Yes	No
	Compare results with acceptable lead content in food on Regulations for Maxim Permissible Levels of Metals in Foodstuffs, (Refer Annexure D) If acceptable limit is exceeded, advise and follow up with further investigation regarding where was it purchased from. If interventions are required, for guidance refer to step 4 of investigation steps and Annexure E of the guideline.	Conclude the investigation and complete section 3, 4 and 5

2. Source of poisoning analysis

3.1

What is the analysis in terms of identification of the source of poisoning from section 2 and the reason for identification?

3. Intervention measures

4.1

What intervention measures did you undertake or advise on?

4. Details of person completing the investigation

Name of the EHP		
Address of the EHP		
Contact details	Tel:	
	Cell:	
	Fax:	
	E-mail	
Address of the EHP		
Date of investigation		
Signature of EHP		