

Examination Protocol for Exposure to: PESTICIDES

This form is subject to the Privacy Act Statement of 1974

Date	Patient Name	SSN	Unit
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IF EXAM TYPE IS	DO or COMPLETE THESE ITEMS
Initial/Baseline or Separation	CG-5447 History and Report of OMSEP Examination DD-2802/DD-2807-1 Blood cholinesterase level, two specimens at least 24 hrs. apart
Periodic	CG-5447A Periodic History and Report of OMSEP Examination Blood cholinesterase level, if current exposure involves organophosphate or carbamate pesticides
Acute Exposure	Acute Exposure Form Blood cholinesterase level, if current exposure involves organophosphate or carbamate pesticides
All Types	Pulmonary function tests (FVC & FEV ₁) CBC and differential, with platelet count and RBC indices (MCV, MCH, MCHC) Multichemistry panel (includes glucose, BUN, creatinine, total protein, total bilirubin, AST, ALT, LDH, and alkaline phosphatase) U/A with microscopic Physician's notification regarding examination results. (Final action)

To the examining medical officer:

- ◆ You must follow-up any significant abnormality through to a physical diagnosis. Provide ICD codes.
- ◆ Ensure that the patient is questioned about the following history or symptoms: past and current exposures to pesticides, smoking and alcohol use history; eye, nose, or throat irritation; cough; nausea, vomiting, diarrhea or abdominal pain; irritability, anxiety, difficulty concentrating, impaired short-term memory, fatigue, or seizures; numbness, tingling, or weakness in the extremities; allergic skin conditions or dermatitis.
- ◆ Ensure the patient is examined for the following possible signs: dermatitis, meiosis, rhinitis, mental status of changes. Pulmonary system must be examined if respiratory protection is used.
- ◆ If the cholinesterase level is at or below 50% of the pre-exposure baseline, the employee must be medically removed from any further workplace exposure.
- ◆ Organophosphates and carbamates are inhibitors of the enzyme acetylcholinesterase. They cause parasympathetic nervous system hyperactivity, neuromuscular paralysis, CNS dysfunction, peripheral neuropathy, and depression of RBC cholinesterase activity. Chlorophenoxyacetic acid herbicides cause skin, eye, and respiratory tract irritation, cough, nausea, vomiting, diarrhea, abdominal pain, and peripheral neuropathy.
- ◆ Arterial blood gases and chest radiography are useful in cases of inhalation exposure of respiratory compromise. Metabolites of organophosphates can be detected in urine up to 48 hours after exposure though testing is available only from reference laboratories.
- ◆ If the patient is on multiple monitoring protocols, ensure each unique item is completed. However, it is not necessary to duplicate tests and forms.

Reviewing Authority Signature	Date
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